

Tube Connectors



Assembly Tools and Devices



Germany

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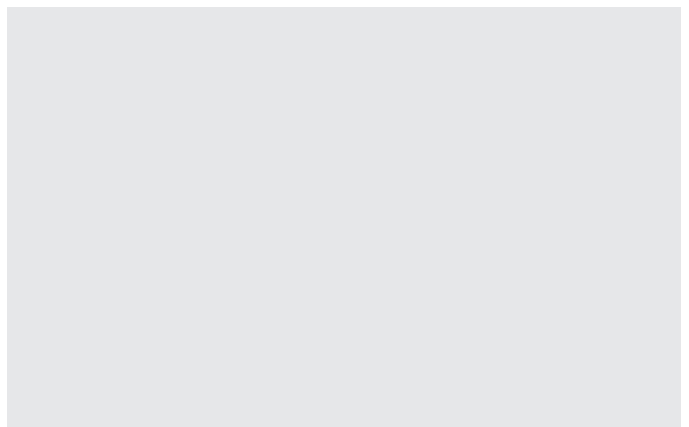
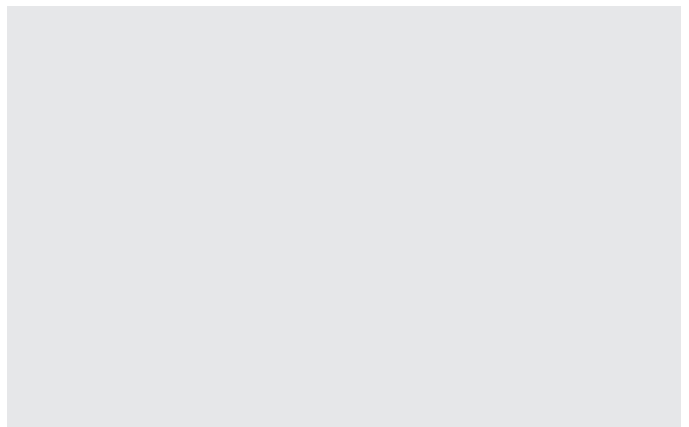
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Subject to modifications due to the ongoing development and improvement of the products.

With the publication of this product catalogue, previous editions are no longer valid.



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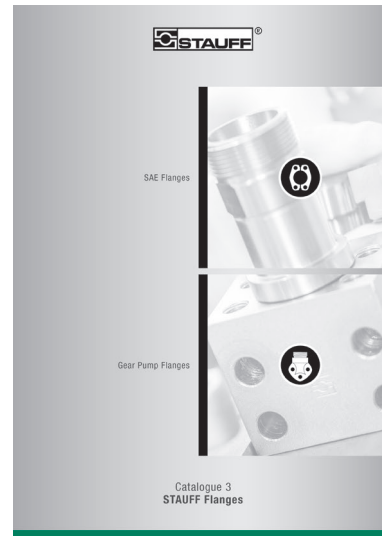
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STAUFF Clamps**

- Block Clamps
- Special Clamps
- Light Series Clamps
- Saddle Clamps
- U-Bolt Clamps
- Metal Clamps
- Construction Series



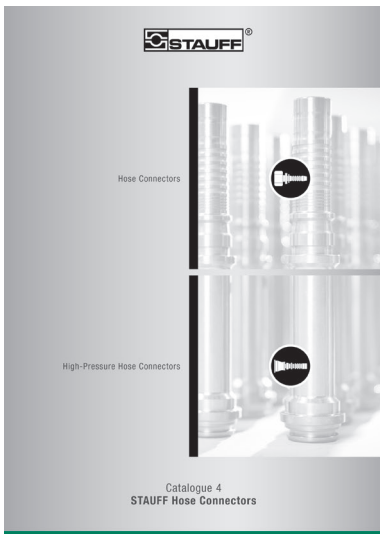
**Catalogue 2
STAUFF Connect**

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- Assembly Tools and Devices



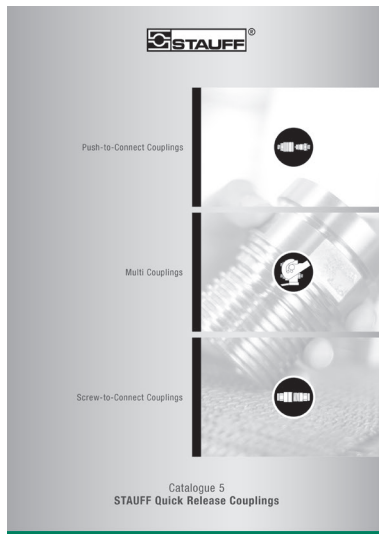
**Catalogue 3
STAUFF Flanges**

- SAE Flanges
- Gear Pump Flanges



**Catalogue 4
STAUFF
Hose Connectors**

- Hose Connectors
- High-Pressure Hose Connectors



**Catalogue 5
STAUFF
Quick Release Couplings**

- Push-to-Connect Couplings
- Multi Couplings
- Screw-to-Connect Couplings



**Catalogue 6
STAUFF Valves**

- Two-Way Ball Valves
- Multi-Way Ball Valves
- Flow Control and Check Valves
- Gauge Isolator Valves





Catalogue 7 STAUFF Test

- Test Couplings
- Test Adaptors
- Test Hoses and Connectors



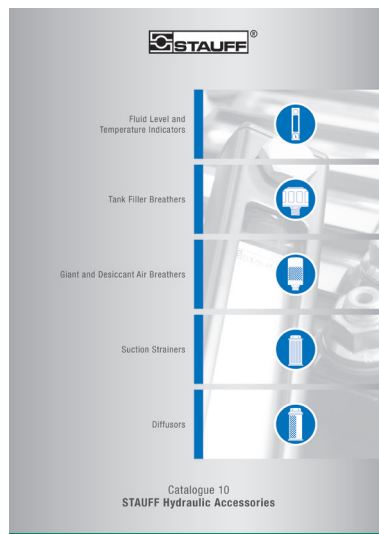
Catalogue 8 STAUFF Diagtronics

- Pressure Gauges
- Hydraulic Testers
- Oil Analysis Equipment



Catalogue 9 STAUFF Filtration Technology

- Replacement Filter Elements
- Pressure Filters
- Return-Line Filters
- In-Line Filters
- Spin-On Filters
- Offline and Bypass Filters
- Filtration Systems



Catalogue 10 STAUFF Hydraulic Accessories

- Fluid Level and Temperature Indicators
- Tank Filler Breathers
- Giant and Desiccant Air Breathers
- Suction Strainers
- Diffusors



For more than 50 years, the companies of STAUFF Group have been developing, manufacturing and distributing pipework equipment and hydraulic components for mechanical and plant engineering and for service and industrial maintenance.

In addition to mobile and industrial hydraulic machinery, typical applications also include commercial and special purpose vehicles, rail transportation and energy technology. Likewise, STAUFF products are used in marine, oil and gas applications and in the process, food and chemical industries.

The overall range currently includes about 40000 standard products as well as numerous special and system solutions according to customer's specifications or based on our in-house development.

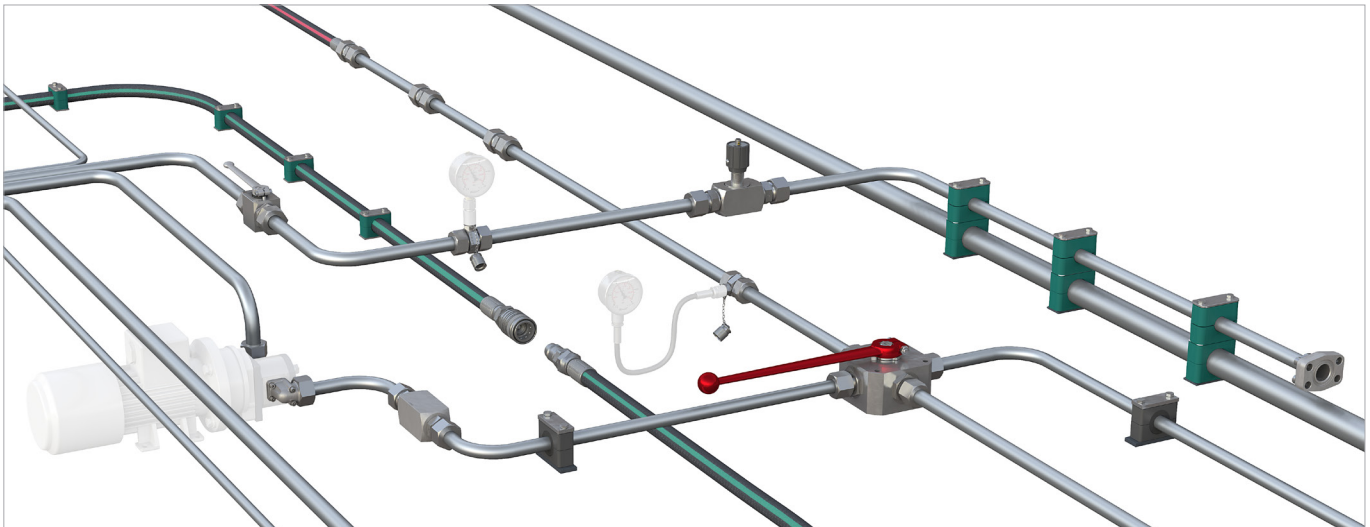
All STAUFF products undergo relevant testing in accordance with international regulations and are governed by the high standards of the in-house quality management system. Furthermore, many items have received certifications and approvals from various international institutes, organisations and authorities who have independently confirmed the quality and performance of the products.

Wholly-owned manufacturing, sales and service facilities in 18 countries and a tight global network of authorised distribution partners ensure high presence and service paired with a maximum of availability.



Quality Management – ISO 9001:2015
Environmental Management – ISO 14001:2015
Safety Management OHSAS – 18001:2007

STAUFF LINE Components



With the seven dedicated **STAUFF Line** product groups

- **STAUFF Clamps**
- **STAUFF Connect**
- **STAUFF Flanges**
- **STAUFF Hose Connectors**
- **STAUFF Quick Release Couplings**
- **STAUFF Valves**
- **STAUFF Test**

from own, in-house development and manufacturing, the companies of the STAUFF Group provide a comprehensive range of components for fastening and connecting pipes, tubes and hoses for mobile and industrial hydraulic applications and many other industries.

The portfolio is completed by components for shutting-off, regulating, throttling and measuring fluid media.

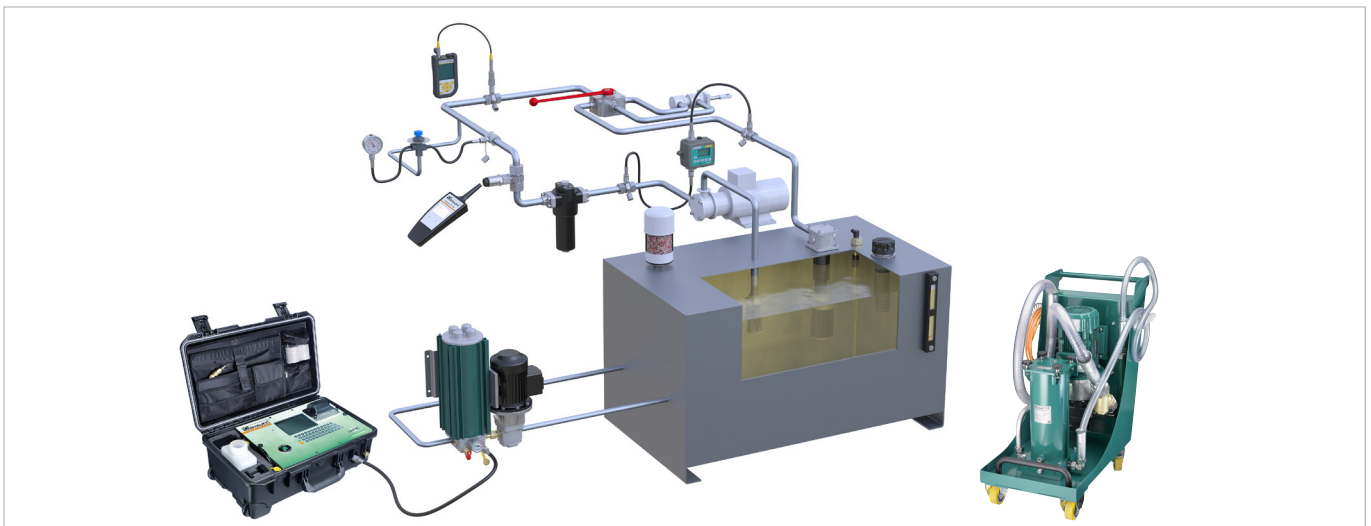
In order to perfectly match each other, STAUFF Line products are designed and offered on a high, uniform level of quality. A large proportion of the range made from steel comes as standard with the premium STAUFF Zinc/Nickel surface coating, which is also optionally available for many of the other components.

This coating offers the most reliable surface protection far beyond the previous market standards – even after transport, handling and assembly of the components – and meets all current legal requirements.

If desired, Original Equipment Manufacturers can be supported with value-added services, from **technical consultation to pre-assembly, assembly and kitting** as well as **logistics services**:

- Support with the **selection of suitable standard components** and ordering options; provision of **customised solutions** according to customer's specifications or based on our in-house development – from prototyping to large scale production
- **Analysis and optimization** of existing and design and developments of new systems aimed at increasing the efficiency and performance of machines and equipment and creating value for customers by reducing the total cost
- **Pre-assembly, assembly and kitting** of individual components to customer-specific system modules
- Individually coordinated **procurement solutions** (e.g. web shop and electronic data interchange) and **supply models** (e.g. from warehousing of customised components to Kanban logistics and just-in-time delivery of pre-fabricated system modules to the assembly lines of the customers) aimed at optimising material flows





Aligned with the needs of the market, the product groups

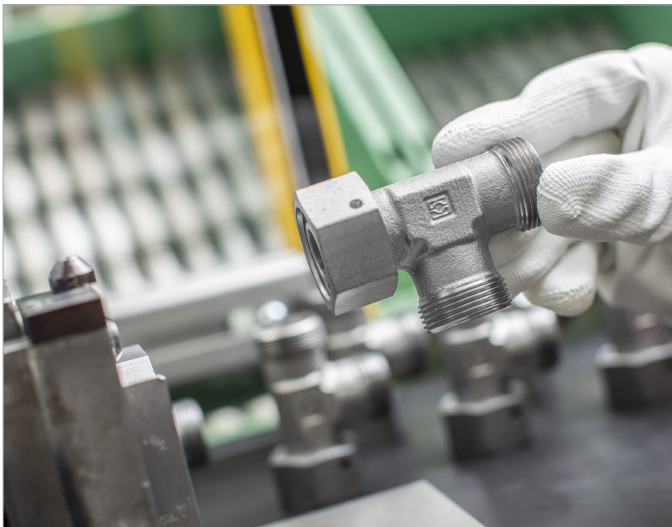
- **STAUFF Test**
- **STAUFF Diagtronics**
- **STAUFF Filtration Technology**
- **STAUFF Hydraulic Accessories**

include a comprehensive range of analogue and digital measuring equipment and devices, filtration systems and replacement filter elements as well as accessories for the construction of tanks, reservoirs, power packs and gear boxes in mobile and industrial hydraulics.

The offer is completed by relevant value-added services:

- Support with the **selection of suitable components** and ordering options; provision of **customised solutions** according to customer's specifications or based on our in-house development – from prototyping to large scale production
- Analysis of existing hydraulic circuits aimed at filtration systems, tank components and monitoring devices that perfectly match to the specific requirements, and developing integrated concepts to increase the efficiency and performance of machines and equipment
- Individually coordinated **procurement solutions** and **supply models**





STAUFF Connect

The STAUFF Connect product group is closely aligned with the market requirements and contains an extensive range of tube connectors made of carbon steel for metric tubes with outer diameters ranging from 4 to 42 mm in accordance with ISO 8434-1 / DIN 2353:

- 24° cutting ring fittings
- 24° taper fittings with O-ring
- 24° weld cones with O-ring
- 37° flared tube fittings

The product range is completed by check and alternating valves for inline installation, thread reducers as well as blanking plugs and screws.

Special product types and sizes as well as alternative materials, material combinations and surface coatings deviating from the standards can be supplied on request.

Automated assembly machinery and hardened, wear-resistant tools enable the reliable assembly of tube connectors – both for series production in the workshop and on-site.

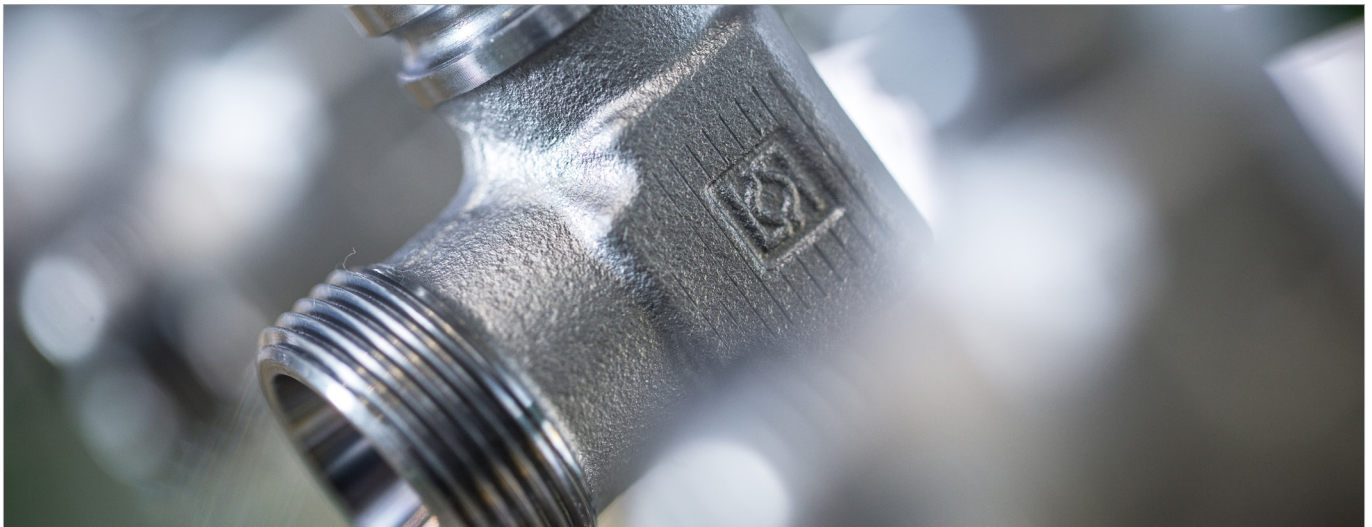
Because of its versatility and flexibility, the patented STAUFF Form tube forming system is undoubtedly the best solution for series production, in particular for applications with highest requirements with regards to safety, reliability and repeatability as well as process stability.

For the finishing of the tube connector range in carbon steel, STAUFF relies on the STAUFF Zinc/Nickel surface coating which has proven successful for many years. It provides reliable surface protection – even after transport, handling and assembly – and meets all current legal requirements.

For selected types and series, independent certificates and approvals can be provided:

- Bureau Veritas
- DNV GL
- Lloyd's Register
- Russian Maritimes Register of Shipping









STAUFF Zinc/Nickel Coating



Layers

-  Sealing
-  Passivation
-  Zinc/Nickel
-  Steel

With at least 1200 hours resistance against red rust, the STAUFF Zinc/Nickel surface coating offers excellent surface protection – even after transport, handling and assembly. This was confirmed by testing in the salt-spray chamber according to DIN EN ISO 9227.

Users across all industries and applications benefit from sophisticated technology, which has been developed for and used by the very demanding automotive industry for many years now and that is already the proven standard for a large proportion of STAUFF components since 2007.

- At least 1200 hours resistance to red rust / base metal corrosion under practical conditions in the salt-spray chamber according to DIN EN ISO 9227
- White rust occurs only by way of a slight grey haze
- Surpassing the requirements of the corrosion protection class K5 as defined by the VDMA, the German Engineering Association (360 hours resistance to white rust / 720 hours resistance to red rust)
- Free of hexavalent chrome Cr(VI)
- ELV compliant according to 2000/53/EC (End of Life Vehicles Directive)
- REACH compliant according to 1907/2006/EC (Registration, Evaluation, Authorisation and Restriction of Chemicals)
- RoHS compliant according to 2002/95/EC (Restrictions of the Use of Hazardous Substances)
- Appealing colour scheme with a bright semi-gloss surface finish – comparable to Stainless Steel
- Significantly reduced tendency to corrosion by contact with other metals (such as Aluminium and Stainless Steel)
- Improved abrasion resistance due to the ductility / plastic deformability of the coating
- Little to no risk of triggering allergies – nickel release is down to only a fraction of the statutory limits relating to objects which come into direct and prolonged contact with the skin (independent results of the reference test method according to DIN EN 1811 are available on request)
- Good paint adhesion properties
- Resistance against all commonly used hydraulic media





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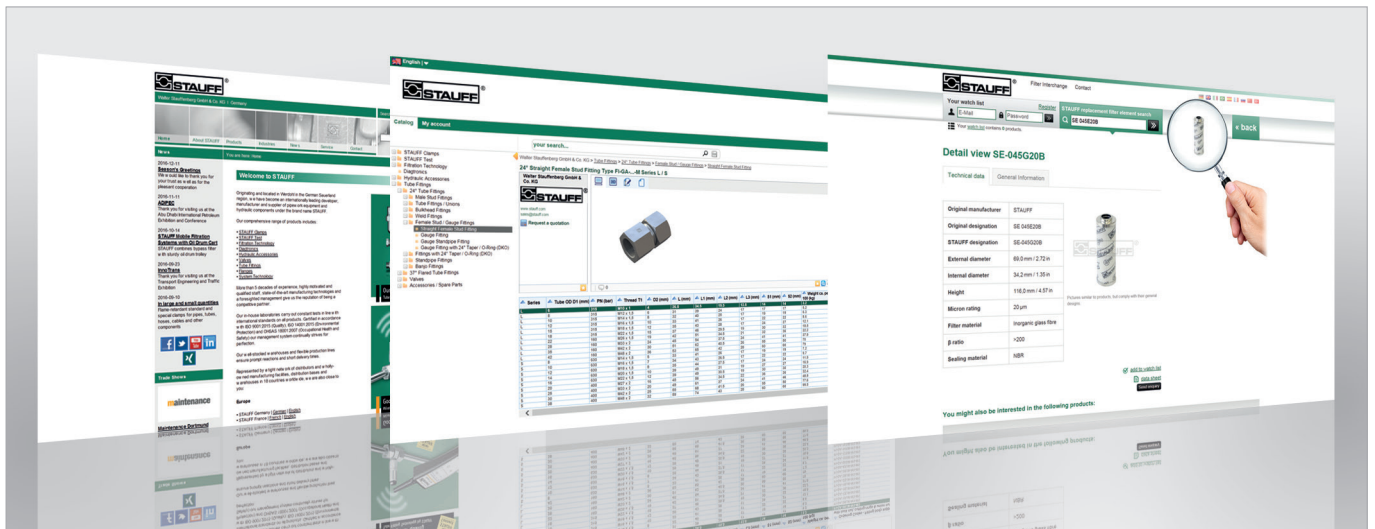
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www.filterinterchange.com

Online database for the quick and easy identification and interchange of almost all common brands and types of replacement filter elements

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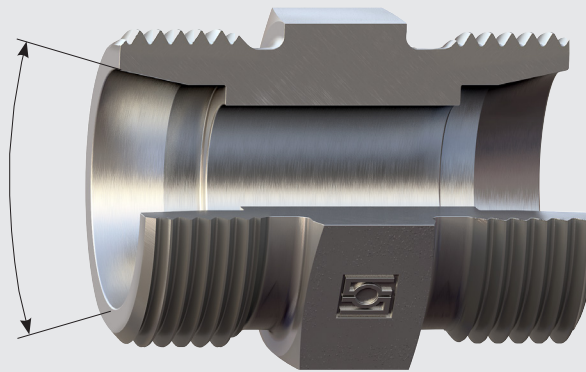
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24° Tube Fittings in General

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24° Conical Bore of the Fitting Body
(Shape W according to DIN 3861)



24° Tube Fittings are surely among the most commonly used and established industrial tube connector systems worldwide. They are regarded as the universal standard for fluid power applications in markets that use the metric system, such as Europe, Asia, Africa and South America.

Even in regions that traditionally used or still use the imperial measurement system (such as Australia or Northern America) 24° tube fittings are gaining more and more acceptance due to the ongoing metrification and specifications by globally operating OEMs.

24° Tube Fittings are specified in the ISO 8434-1 and DIN 2353 standards.

At least one tube connection end of the fitting body is characterized by a 24° conical bore (shape W according to DIN 3861), which serves as a metallic sealing surface, while the other end of the body is available with a variety of different connection types, such as male and female threaded or weld studs.

Various shapes (e.g. straight fittings, elbows, tees, crosses etc.) and designs (e.g. unions, studs, bulkheads or adjustable fittings) are available.

The portfolio consists of the Extra-Light (LL) Series as defined in the DIN 2353 standard as well as the Light Series (L) and the Heavy Series (S) as defined in the ISO 8434-1 standard, which differ from each other in particular with regards to their dimensions and pressure ratings.

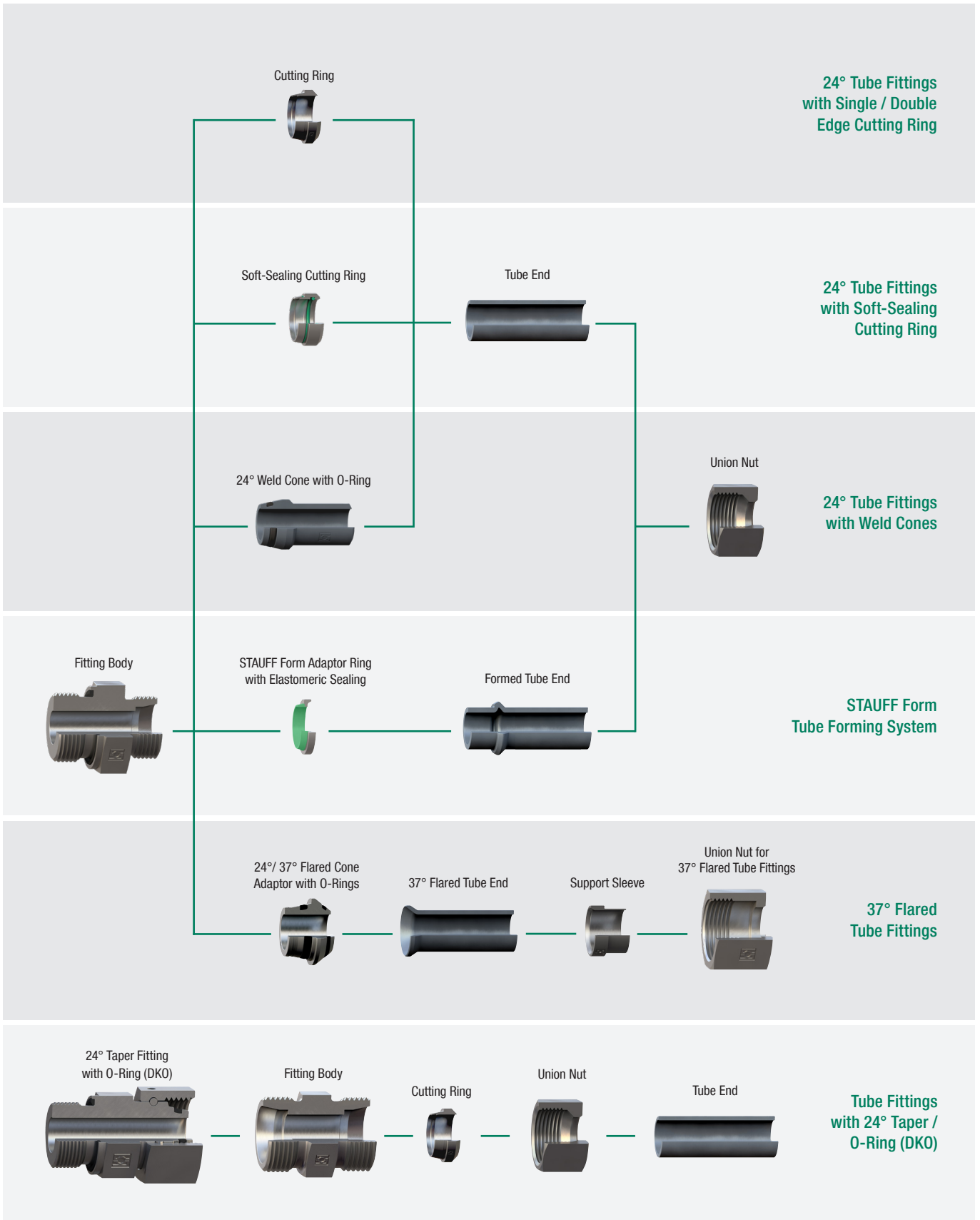
Main Advantages of the 24° Tube Fitting System

- 24° Tube Fittings can be quickly and easily field-assembled and even re-assembled with just a couple of standard wrenches and no requirement for hours of expensive staff training or special tube treatment. Under regular conditions, subsequent re-tightening of 24° Tube Fittings is not necessary.
- Most types of 24° Tube Fittings are available and suitable for light, medium, heavy and extra-heavy wall tubing with outside diameters ranging from 4 to 42 mm / .16 to 1.65 in, which allows optimum dimensioning of pipework circuits and saves material cost.
- The 24° Tube Fitting System is available in the Extra-Light (LL), the Light (L) and the Heavy (S) Series and provides suitable components with regards to sufficient pressure ratings and maximum leak-tightness up to nominal pressures of 800 bar / 11600 PSI (depending on series, type and size of the component – pressure reduction factors to be considered) for literally each application.
- Thanks to their optimised inner contour and design, 24° Tube Fittings offer ideal flow rates and therefore guarantee best performance without the excessive generation of vibrations, noise or heat.
- 24° Tube Fittings are small and compact in design compared to other systems, which makes them perfect for applications with space considerations.
- The recommended material raise in front of the first edge of the cutting ring after the assembly is clearly visible to tube fitters and inspectors and makes it easy to check and confirm the correct assembly of 24° Tube Fittings.
- On-site piping with 24° Tube Fittings is very efficient and offers maximum flexibility for tube fitters as the exact required tube length can be easily checked in advance by just trying out.
- 24° Tube Fittings are easy to combine with other tube fitting systems – even hoses can be connected without difficulties.



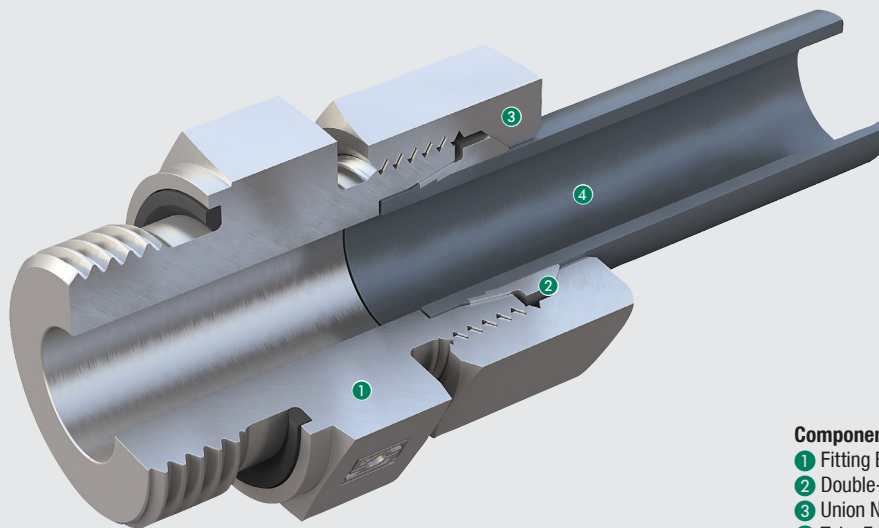
Overview of 24° Tube Fittings

A



24° Tube Fittings with Single / Double Edge Cutting Ring

A



Components

- 1 Fitting Body – ISO 8434-1 / DIN 2353
- 2 Double-Edge Cutting Ring
- 3 Union Nut – ISO 8434-1 / DIN 3870
- 4 Tube End

STAUFF Connect 24° Tube Fittings with Cutting Ring have been developed and designed for the reliable, leak-free connection of metric tubes with outside diameters between 4 mm and 42 mm / between .16 in and 1.65 in respectively.

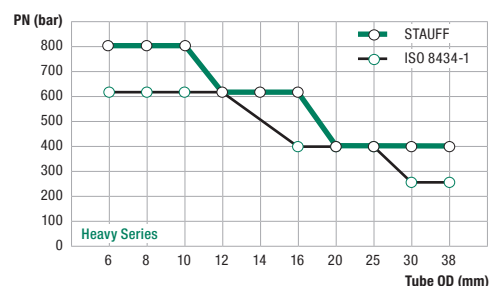
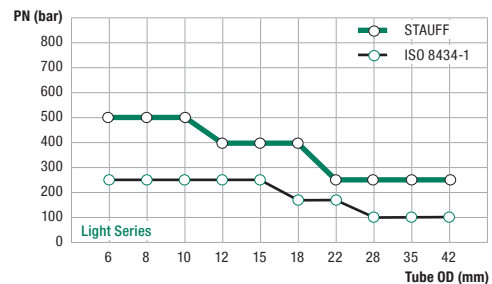
Therefore, the most relevant key dimensions of the tube fittings (e.g. through bores and widths across flats) also have metric dimensions.

With regards to their dimensioning and general design, STAUFF Connect 24° Tube Fittings with Cutting Ring fully comply with the latest versions of the ISO 8434-1 and the DIN 2353 standards.

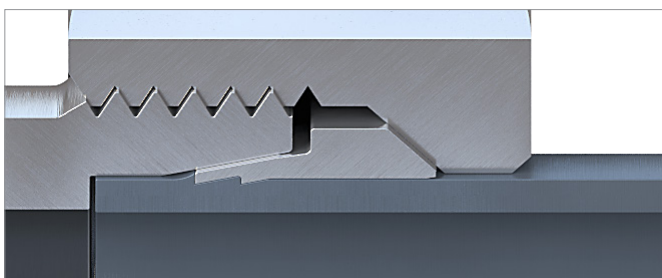
The operating principle of STAUFF Connect 24° Tube Fittings with Cutting Ring is based on a double-edge cutting ring, which cuts into the tube twice, thus ensuring the necessary force and form closure in the cutting area.

Thanks to the optimised geometry of this ring, the two edges do not cut simultaneously, but rather one after the other. In addition to increasing the incising effect, this method maximises the tear strength of the fitting.

Due to the design of the double-edge cutting ring in the central region as well as in the shoulder area, a larger tube support surface with a high surface pressure is achieved without jamming the cutting ring. This ensures uniform distribution of force. The outer support surfaces of the cutting ring are smoothed, thus minimising friction losses during assembly and guaranteeing the maximum degree of safety during use.

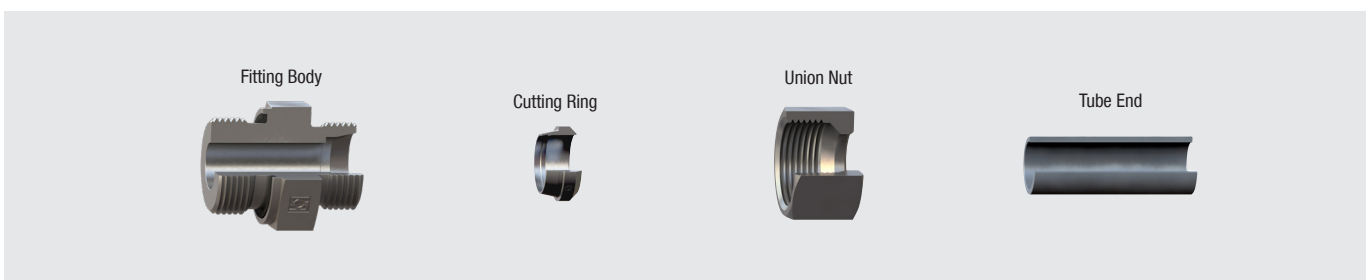


Nominal pressure levels of tube fittings



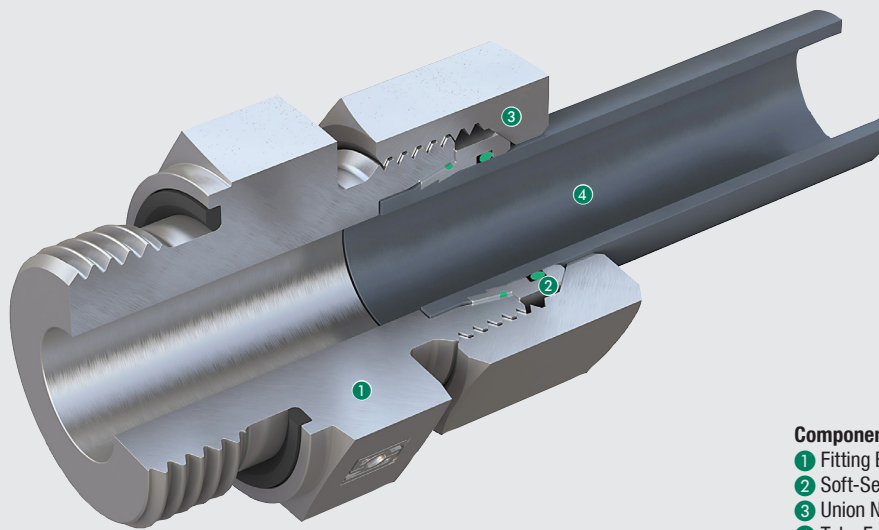
STAUFF Connect 24° Tube Fittings with Cutting Ring even exceed the ISO requirements in pressure: They can be used in applications with nominal pressures up to 500 bar / 7250 PSI in the Light Series and up to 800 bar / 11600 PSI in the Heavy Series (depending on series, type and size of the components – pressure reduction factors to be considered).

For dimensional reasons, STAUFF Connect 24° Tube Fittings with Cutting Ring in the Extra-Light Series use single-edge cutting rings (suitable for nominal pressures up to 100 bar / 1450 PSI)



24° Tube Fittings with Soft-Sealing Cutting Ring

A


Components

- ① Fitting Body – ISO 8434-1 / DIN 2353
- ② Soft-Sealing Cutting Ring
- ③ Union Nut – ISO 8434-1 / DIN 3870
- ④ Tube End

Soft-Sealing Cutting Rings provide an additional safety and protection against potential leakage risks, e.g. caused by the settling of purely metallic sealed connections, temperature fluctuations or considerable pressure and vibration loads in the system. "Sweating effects" on the connection points can be permanently avoided.

The type FI-WDDS Soft-Sealing Cutting Ring of the STAUFF Connect range is characterised by the elastomer sealing, which is located in a specially designed groove close to the rear end of the 24° taper and protected to prevent loss. An additional o-ring is used to secure the second potential leakage path between the cutting ring and the tube – even in the event of unfavourable tolerances

FKM (Viton®) is used as the standard sealing material and enables problem-free use of the system for challenging applications involving high temperatures or aggressive media.

Like all other components in the STAUFF Connect product range, the cutting ring itself is designed as standard with a high-quality zinc/nickel surface coating. With over 1,200 hours of resistance to red rust / base metal corrosion in the salt-spray chamber in accordance with DIN EN ISO 9227, the coating offers most reliable corrosion protection far beyond previously accepted market standards. Even after shipping, handling and assembly of the components, the coating significantly exceeds the requirements for the highest corrosion protection class K5 defined in VDMA Standard Sheet 24576 for tube connectors.

Alternative materials and surface and surface finishings are available on request.

Both elastomer sealings are located in the secondary sealing zone of the connection. Static and dynamic loads in the system are primarily compensated by the tried and tested metallic sealed area. When assembled, the soft-sealing elements are almost completely chamfered (as gap-free and cavity-free as technically possible). This prevents extrusion of the sealings and contributes to the excellent longterm stability of the system.

Type FI-WDDS Soft-Sealing Cutting Rings convince through their simple assembly in the fitting body: Use a suitable spanner to tighten the union nut until the point where the cutting ring comes into contact and sits closely with the face side of the fitting body. This point is characterised by a significant increase in force.

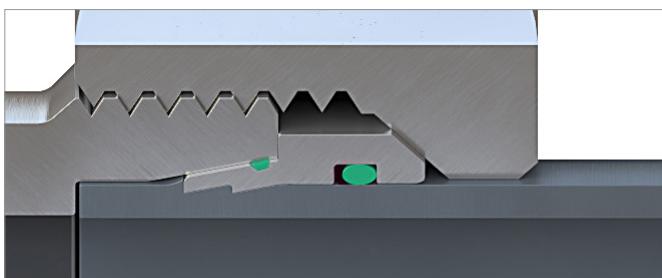
Due to the design, the risks of insufficient assembly as well as over-assembly of cutting rings (which can lead to damage or radial constriction of thin-walled tubes) can be significantly reduced.

As a matter of course, the recommended material raise in front of the first edge of the cutting ring after the completed assembly is clearly visible to tube fitters and inspectors and makes it easy to check and confirm the correct assembly – as required by the norm.

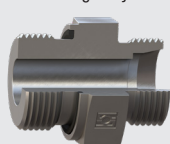
Type FI-WDDS Soft-Sealing Cutting Ring are available for all metric tubes with outside diameters between 6 mm and 42 mm / between .24 in and 1.65 in respectively. They even exceed the ISO requirements in pressure and can be used in applications with nominal pressures up to 500 bar / 7250 PSI in the Light Series and up to 800 bar / 11600 PSI in the Heavy Series (depending on series, type and size of the components – pressure reduction factors to be considered).

Users benefit from the great versatility and flexibility of the system, as well as the many combination and adaptation options offered by using standard components from the STAUFF Connect product range (in accordance with the latest versions of the ISO 8434-1 and the DIN 2353 standards). There is therefore no need to duplicate the stock-keeping of similar components with a correspondingly high likelihood of confusion, as is often the case with comparable systems. Material and logistics costs can thus be correspondingly reduced.

Connections using regular, purely metallic sealing double-edge cutting rings can be interchanged without any problems.



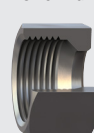
Fitting Body



Soft-Sealing Cutting Ring



Union Nut

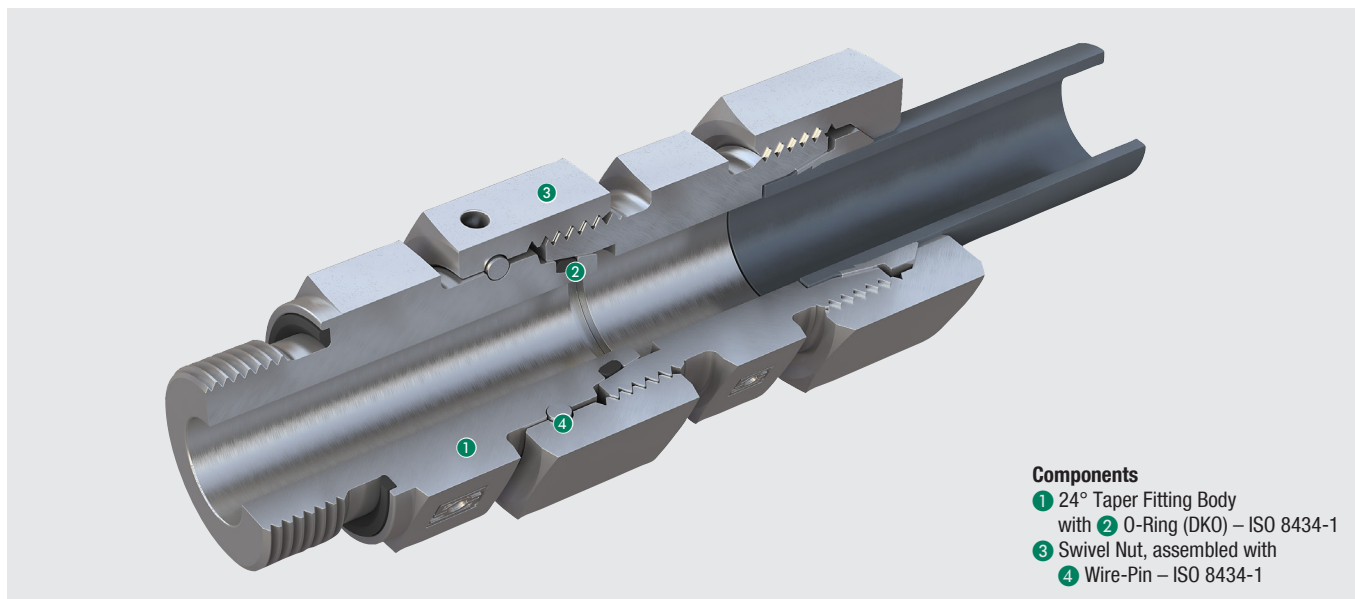


Tube End



Tube Fittings with 24° Taper / O-Ring (DKO)

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Components

- ① 24° Taper Fitting Body with ② O-Ring (DKO) – ISO 8434-1
- ③ Swivel Nut, assembled with ④ Wire-Pin – ISO 8434-1

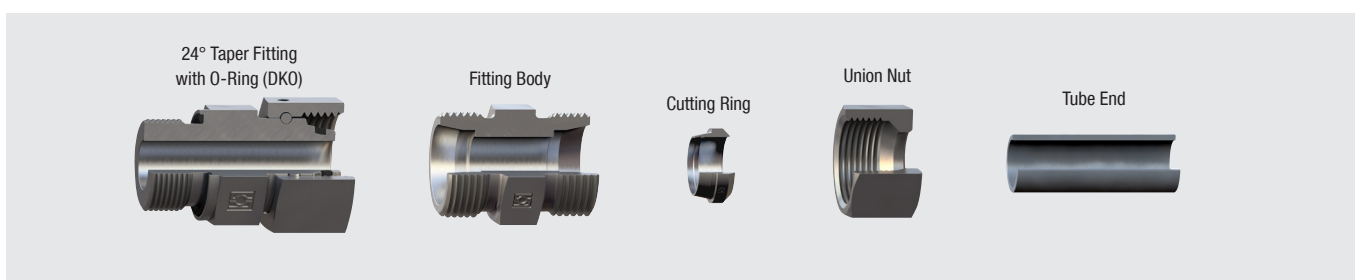
Due to the 24° taper (with o-rings) located on the fitting body itself, STAUFF Connect Tube Fittings with 24° Taper / O-Ring (DKO) represent a logical further development of traditionally available adjustable standpipe tube fittings with factory-assembled cutting rings and union nuts.

The retention function is assured by a special swivel nut with a wire-pin located in a groove, which is factory-assembled by the manufacturer.

The embedded o-ring on the 24° taper ensures a high level of protection against leakage.

Thanks to the large number of available types and designs, almost all common types and combinations of adjustable fittings can be implemented.

With regards to their dimensioning and general design, STAUFF Connect Tube Fittings with 24° Taper / O-Ring (DKO) fully comply with the latest versions of the ISO 8434-1 standard. They are thus completely interchangeable with conventional adjustable standpipe tube fittings.



24° Taper Fitting
with O-Ring (DKO)

Fitting Body

Cutting Ring

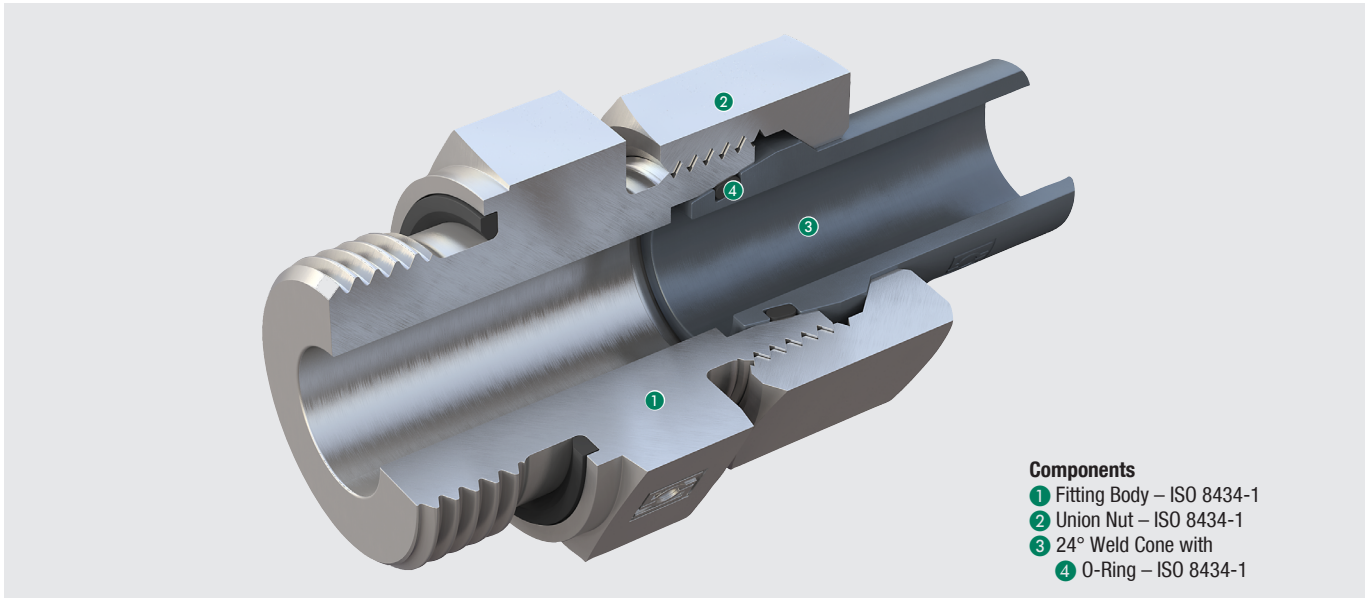
Union Nut

Tube End



24° Weld Cones with O-Ring

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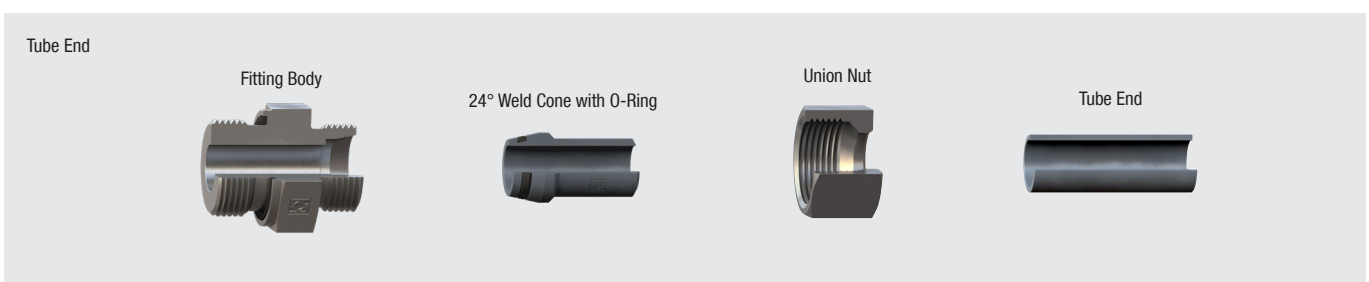


- Components**
- ① Fitting Body – ISO 8434-1
 - ② Union Nut – ISO 8434-1
 - ③ 24° Weld Cone with
 - ④ O-Ring – ISO 8434-1

STAUFF Connect 24° Weld Cones with O-Ring represent a supplement to the usual range of tube fittings. However, they are increasingly perceived as a special solution due to the complex tube preparation, assembly, finishing and testing, as are all other types of welded connectors.

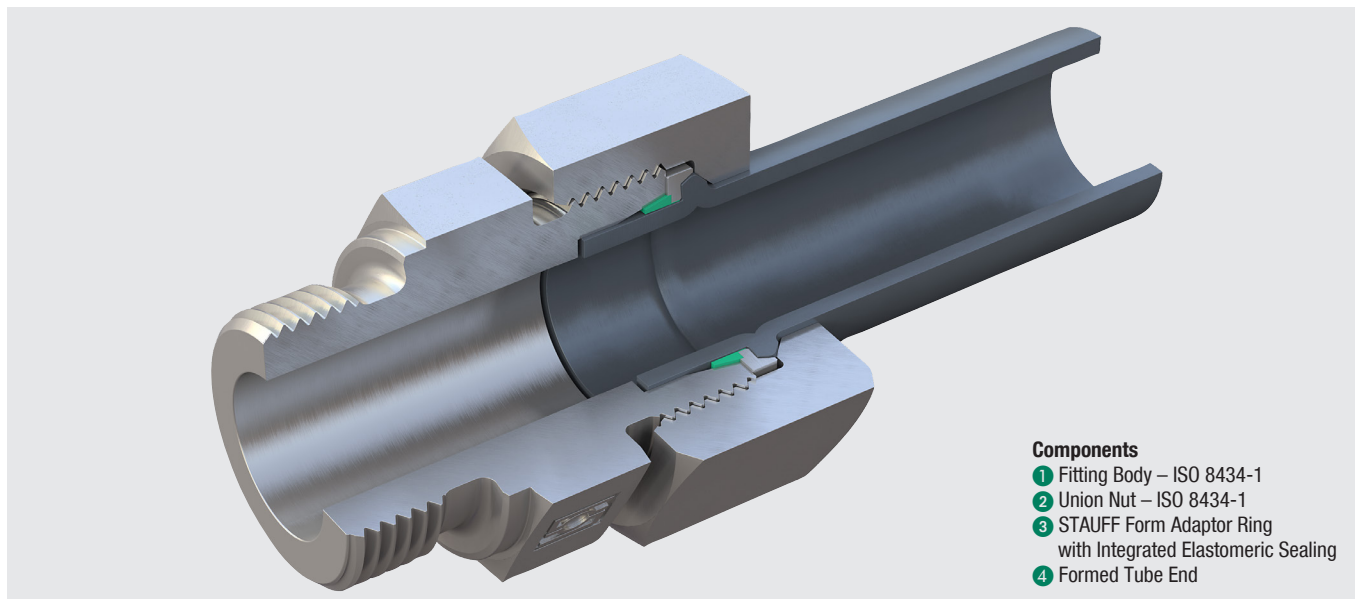
STAUFF Connect 24° Weld Cones with O-Ring are directly welded to the tube end.

With regards to their dimensioning and general design, they fully comply with the latest versions of the ISO 8434-1 standard.



24° Tube Fittings using the STAUFF Form Tube Forming System

A



Components

- ① Fitting Body – ISO 8434-1
- ② Union Nut – ISO 8434-1
- ③ STAUFF Form Adaptor Ring with Integrated Elastomeric Sealing
- ④ Formed Tube End

Performance

The patented STAUFF Form tube forming system is without doubt one of the most high-performing solutions currently available on the market for connecting metric sized tubes. Apart from its simplicity, it also provides a maximum level of safety, reliability and reproducibility.

STAUFF Form has been designed as standard for seamless cold-drawn precision steel tubes as well as stainless steel tubes with dimensions between 6 x 1.5 mm and 42 x 4 mm in the Light Series and between 6 x 1.5 mm and 38 x 6 mm in the Heavy Series. Parameters for alternative materials (copper, brass, CuNiFe, Tungum etc.) can be added by the manufacturer, if required.

System Design and Components

The system is based on standard parts and consists of only four key components:

The STAUFF Form Ring with an integrated and thus undetachable elastomeric sealing is slid onto the tube end, which has previously been mechanically contoured. This creates a positive-locking connection that provides a reliable, permanent and maintenance-free seal when used with a conventional fitting body with 24° conical bore and a union nut, both according to ISO 8434-1.

Versatility and Flexibility

Users benefit from the great versatility and flexibility of the system, as well as the many combination and adaptation options offered by using standard components from the STAUFF Connect product range.

There is therefore no need to duplicate the stock-keeping of similar components with a correspondingly high likelihood of confusion, as is often the case with comparable systems. Material and logistics costs can thus be correspondingly reduced.

Materials and Surface Finishing

Like all other components in the STAUFF Connect product range, STAUFF Form Rings are designed as standard with a high-quality zinc/nickel surface coating.

With over 1,200 hours of resistance to red rust / base metal corrosion in the salt-spray chamber in accordance with DIN EN ISO 9227, the coating offers most reliable corrosion protection far beyond previously accepted market standards.

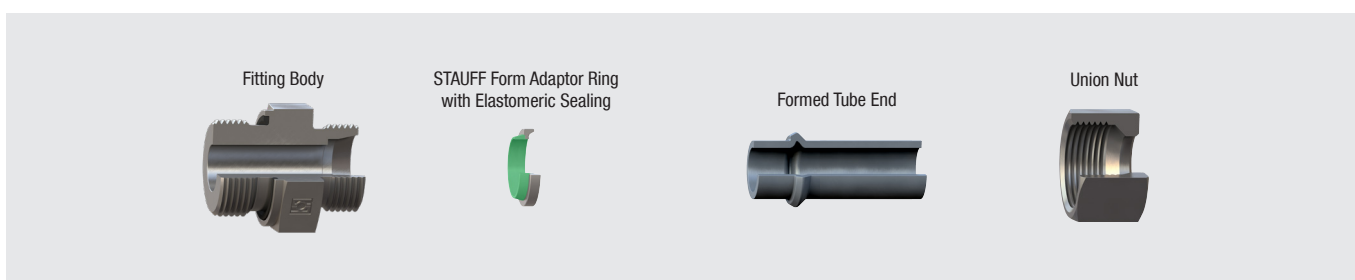
Even after shipping, handling and assembly of the components, the coating significantly exceeds the requirements for the highest corrosion protection class K5 defined in VDMA Standard Sheet 24576 for tube connectors.

Sealing

The sealing of the only possible leakage path is provided primarily by the large-volume elastomeric sealing fitted to the STAUFF Form Ring, which is specifically positioned between the surface of the tube and the 24° conical bore of the fitting body during assembly.

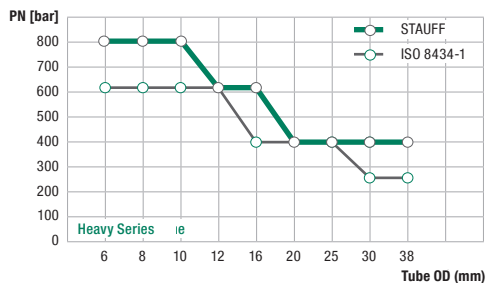
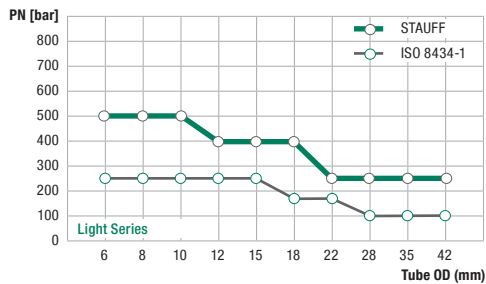
FKM (Viton®) is used as the standard sealing material and enables problem-free use of the STAUFF Form tube forming system for challenging applications involving high temperatures or aggressive media.

The unique sealing profile has a particularly large cross-section in order to provide a safe, reliable and permanent seal even in the event of unfavourable tolerances of the tube and fitting. The sealing effect is assisted by the system pressure of the hydraulic system so that the STAUFF Form tube forming system is also the perfect choice for high-pressure applications.



Main Features and Benefits

- Suitable for both steel and stainless steel tubing as standard – also applicable for alternative tube materials on request
- Covers all common metric tube dimensions from 6 x 1.5 mm to 42 x 4 mm in the Light Series and 38 x 6 mm in the Heavy Series respectively
- Requires only standard parts from the STAUFF Connect range according to ISO 8434-1: No need to duplicate the stock-keeping of similar components with a correspondingly high likelihood of confusion
- High-quality zinc/nickel surface coating provides maximum protection and corrosion resistance – standard for all parts in the STAUFF Connect range
- Positive-locking connection with a large-volume elastomeric sealing providing a safe, reliable and permanent seal even in the event of unfavourable tolerances
- The use of FKM (Viton®) as the standard seal material makes the system perfect for the most challenging applications
- Suitable for nominal pressures up to 800 bar in the Heavy Series – designed with four-fold safety and maximum tear-out strength
- Incredibly simple final assembly in the fitting body with low assembly torques as well as short assembly paths (once the fixed point has been reached) with a minimised risk of over-assembly



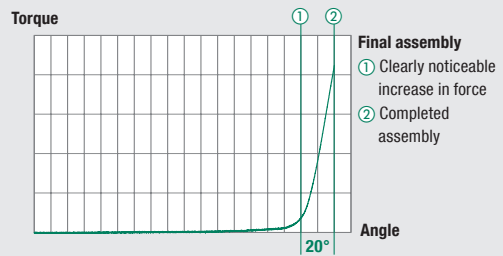
Nominal pressure levels of tube fittings

Pressure Resistance

When the STAUFF Form tube forming system is used in conjunction with genuine products from the STAUFF Connect product range, it provides pressure resistance of up to 800 bar / 11600 PSI in the Heavy Series and 500 bar / 7250 PSI in the Light Series (generally with a four-fold safety factor and depending on the series, design and size of the fitting body and taking into consideration various pressure reducing factors).

This is the result of exceptional care taken in the development of the system and the selection, handling and processing of the raw materials.

Maximum tear-out strength can be guaranteed for the system due to the contour shaped at the tube end.



Final Assembly in the Fitting Body

Final assembly is performed by tightening the union nut until the point with clearly noticeable increase in force (fixed point). The assembly is completed with another turn by approximately 15° to 20° beyond this point.

This incredibly simple assembly method has several benefits for the user:

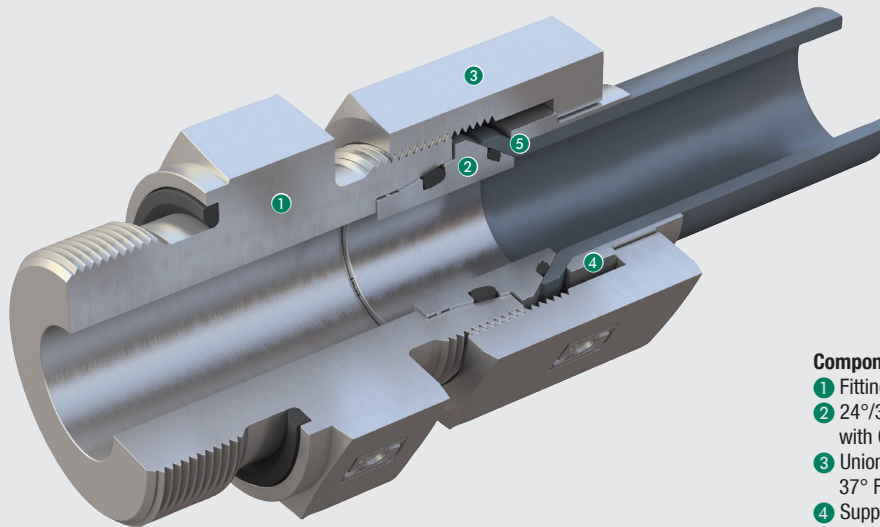
- Considerably lower torques and short assembly paths (once the fixed point has been reached)
- Significant increase in torque to clearly indicate the end of the assembly
- Maximum safety to combat over-assembly
- No need for time-consuming and expensive training

Connections made with the STAUFF Form can be untightened as often as required and reassembled without wear, as any damaging expansion of the 24° conical bore of the fitting body is technically avoided.



37° Flared Tube Fittings

A



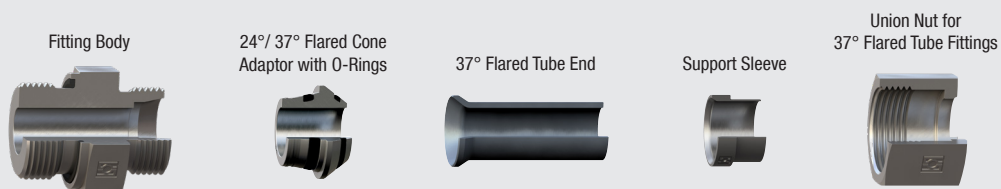
Components

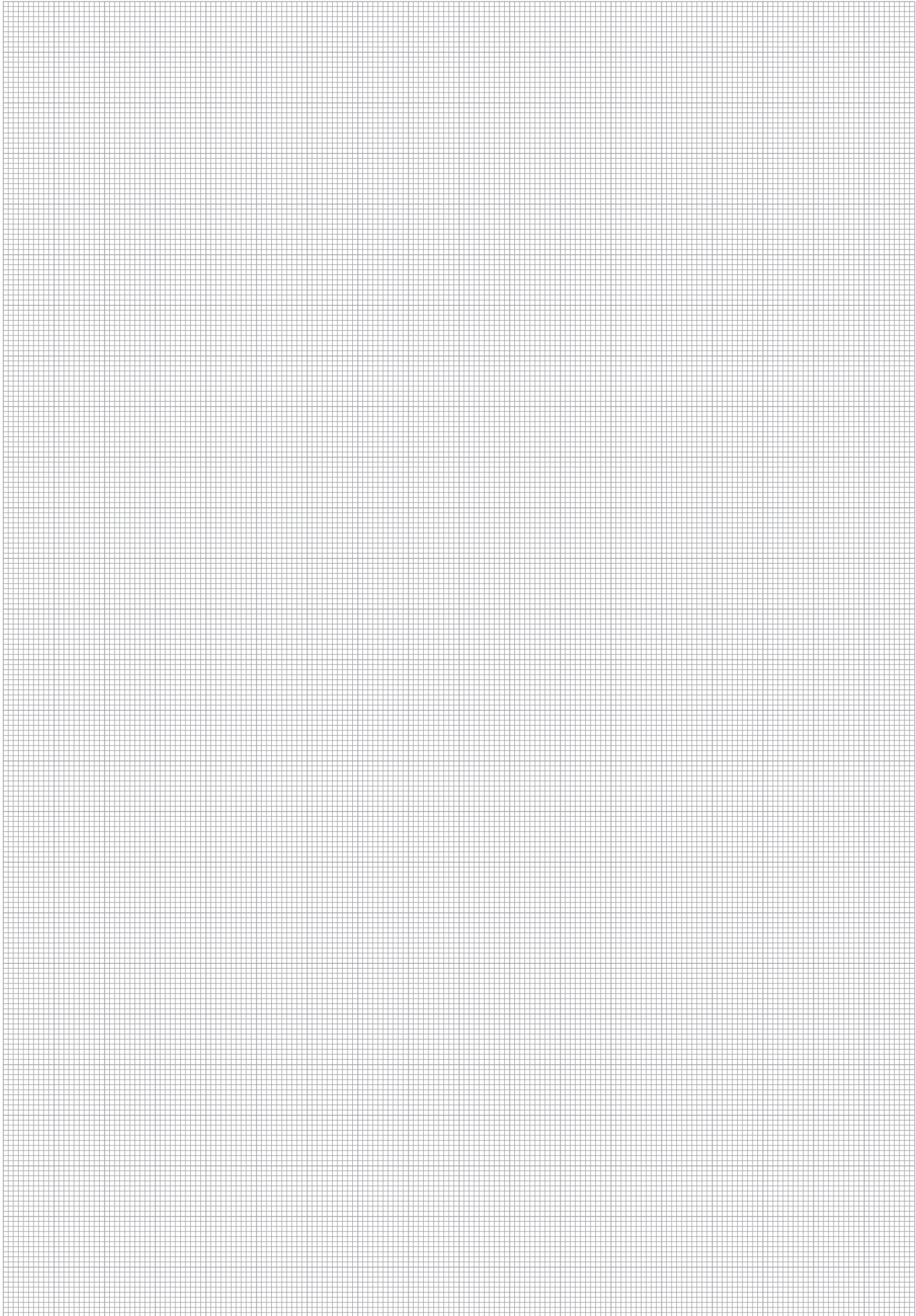
- ① Fitting Body – ISO 8434-1
- ② 24°/37° Flared Cone Adaptor with O-Rings – DIN 3949
- ③ Union Nut for 37° Flared Tube Fittings – DIN 3949
- ④ Support Sleeve – DIN 3949
- ⑤ 37° Flared Tube End – DIN 3949

STAUFF Connect 37° Flared Tube Fittings have been developed and designed for the reliable, leak-free connection of tubes with a 37° flare with conventional fitting bodies with a 24° cone according to ISO 8434-1.

Thanks to the optimised geometry of STAUFF Connect 37° Flared Tube Fittings with metallic/elastomer sealing at the contact points both to the fitting body and the tube, efficient sealing is ensured, even if there are vibrations and pressure fluctuations / peaks.

STAUFF Connect 37° Flared Tube Fittings can be used in applications with nominal pressures up to 500 bar / 7250 PSI on the Light Series or up to 630 bar / 9135 PSI in the Heavy Series (pressure reduction factors to be considered).

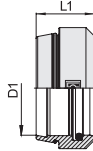






| | | |
|--|---|----|
|  | Double Edge Cutting Ring FI-DS | 26 |
|  | Soft-Sealing Cutting Ring FI-WDDS | 27 |
|  | Support Sleeve FI-VH | 28 |
|  | STAUFF Form Adaptor Ring FI-AR | 30 |
|  | Union Nut FI-M | 31 |
|  | 24°/37° Flared Cone Adaptor with O-Rings FI-BA | 32 |
|  | Support Sleeve for 37° Flared Tube Fittings FI-BH | 33 |
|  | Union Nut for 37° Flared Tube Fittings FI-BM | 34 |
|  | 37° Flared Tube Fitting Set FI-AB | 35 |



Soft-Sealing Cutting Ring
 Type FI-WDDS • Series L / S


B

| Series | Tube OD | PN | Dimensions | | Weight (^{kg} / _{lbs}) ca. per 100 ² | Ordering Codes Soft-Sealing Cutting Ring |
|--------|---|-------|-------------------------------------|---|--|---|
| | (^{mm} / _{in}) D1 | | (^{bar} / _{PSI}) | (^{mm} / _{in}) L1 | | |
| L | 6 | 500 | 8,8 | | 0,19 | FI-WDDS-06L/S-V-W3 |
| | .24 | 7250 | .35 | | .42 | |
| | 8 | 500 | 8,8 | | 0,24 | FI-WDDS-08L/S-V-W3 |
| | .31 | 7250 | .35 | | .53 | |
| | 10 | 500 | 9,8 | | 0,35 | FI-WDDS-10L/S-V-W3 |
| | .39 | 7250 | .39 | | .77 | |
| | 12 | 400 | 9,8 | | 0,41 | FI-WDDS-12L/S-V-W3 |
| | .47 | 5800 | .39 | | .90 | |
| | 15 | 400 | 10,2 | | 0,66 | FI-WDDS-15L-V-W3 |
| | .59 | 5800 | .40 | | 1.44 | |
| | 18 | 400 | 10,2 | | 0,82 | FI-WDDS-18L-V-W3 |
| | .71 | 5800 | .40 | | 1.79 | |
| | 22 | 250 | 11,5 | | 1,06 | FI-WDDS-22L-V-W3 |
| | .87 | 3625 | .45 | | 2.34 | |
| | 28 | 250 | 11,5 | | 1,28 | FI-WDDS-28L-V-W3 |
| | 1.10 | 3625 | .45 | | 2.82 | |
| | 35 | 250 | 13,5 | | 2,36 | FI-WDDS-35L-V-W3 |
| | 1.38 | 3625 | .53 | | 5.18 | |
| 42 | 250 | 13,5 | | 2,75 | FI-WDDS-42L-V-W3 | |
| 1.65 | 3625 | .53 | | 6.05 | | |
| S | 6 | 800 | 8,8 | | 0,19 | FI-WDDS-06L/S-V-W3 |
| | .24 | 11600 | .35 | | .42 | |
| | 8 | 800 | 8,8 | | 0,24 | FI-WDDS-08L/S-V-W3 |
| | .31 | 11600 | .35 | | .53 | |
| | 10 | 800 | 9,8 | | 0,35 | FI-WDDS-10L/S-V-W3 |
| | .39 | 11600 | .39 | | .77 | |
| | 12 | 630 | 9,8 | | 0,41 | FI-WDDS-12L/S-V-W3 |
| | .47 | 9135 | .39 | | .90 | |
| | 14 | 630 | 10,2 | | 0,73 | FI-WDDS-14S-V-W3 |
| | .55 | 9135 | .40 | | 1.61 | |
| | 16 | 630 | 10,3 | | 0,83 | FI-WDDS-16S-V-W3 |
| | .63 | 9135 | .41 | | 1.82 | |
| | 20 | 400 | 12,5 | | 1,28 | FI-WDDS-20S-V-W3 |
| | .79 | 5800 | .49 | | 2.81 | |
| | 25 | 400 | 12,5 | | 1,58 | FI-WDDS-25S-V-W3 |
| | .98 | 5800 | .49 | | 3.48 | |
| | 30 | 400 | 13,5 | | 2,41 | FI-WDDS-30S-V-W3 |
| | 1.18 | 5800 | .53 | | 5.31 | |
| 38 | 400 | 13,5 | | 3,00 | FI-WDDS-38S-V-W3 | |
| 1.50 | 5800 | .53 | | 6.60 | | |

Ordering Codes

***FI-WDDS*-10*L*-V*-W3**

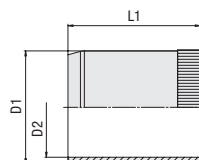
| | | |
|------------------------------------|---------------------------|---------|
| * Soft-Sealing Cutting Ring | | FI-WDDS |
| * Outside Tube Diameter D1 (in mm) | | -10 |
| * Series | Light Series | L |
| | Heavy Series | S |
| * Seal Material | FKM (Viton®) | -V |
| * Material Code | Steel, zinc/nickel-plated | -W3 |

Please contact STAUFF for alternative materials and surface finishings.

Standard seal material is FKM (Viton®).



Support Sleeve
Type FI-VH



B

Ordering Codes

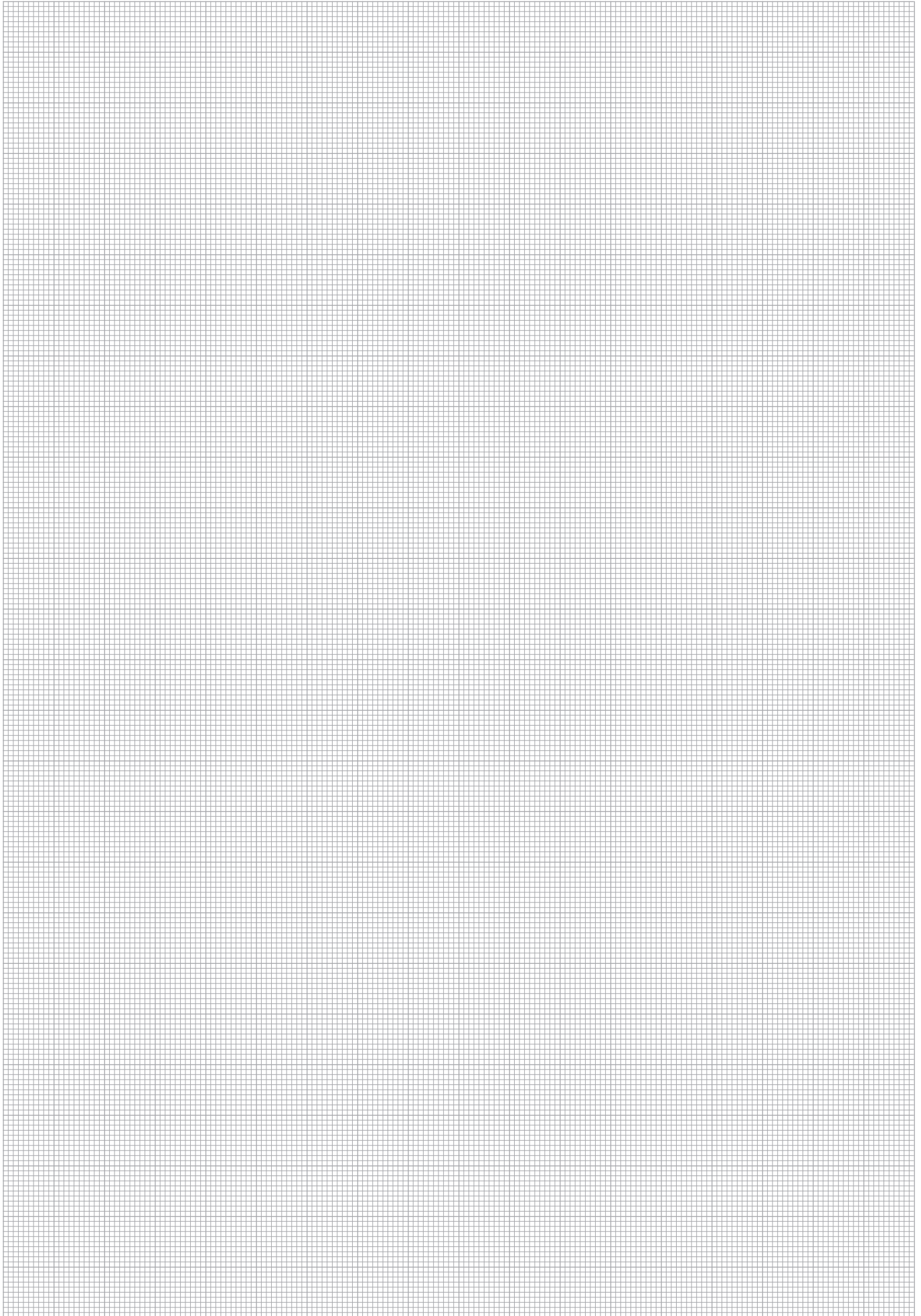
***FI-VH*-10*x1.5*-W69**

- * Support Sleeve **FI-VH**
- * Outside Tube Diameter (in mm) **-10**
- * Wall Thickness (in mm) **x1.5**
- * Material Code Brass **-W69**

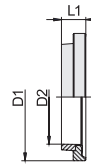
Please contact STAUFF for alternative materials and surface finishings.

| Dimensions (mm/in) | D1 | D2 | L1 | Ordering Codes |
|-----------------------|------|------|------|-------------------|
| 6 x 1 | 4 | 2,6 | 15,5 | FI-VH-06x1-W69 |
| .24 x .04 | .16 | .10 | .61 | |
| 6 x 0,75 | 4,5 | 3,1 | 12,5 | FI-VH-06x0.75-W69 |
| .24 x .03 | .18 | .12 | .49 | |
| 6 x 0,5 | 5 | 3,6 | 12,5 | FI-VH-06x0.5-W69 |
| .24 x .02 | .20 | .14 | .49 | |
| 8 x 1 | 6 | 4,6 | 15,5 | FI-VH-08x1-W69 |
| .31 x .04 | .24 | .18 | .61 | |
| 8 x 0,75 | 6,5 | 5,1 | 12,5 | FI-VH-08x0.75-W69 |
| .31 x .03 | .26 | .20 | .49 | |
| 10 x 1,5 | 7 | 5,6 | 17 | FI-VH-10x1.5-W69 |
| .39 x .06 | .28 | .22 | .67 | |
| 10 x 1 | 8 | 6,6 | 16,5 | FI-VH-10x1-W69 |
| .39 x .04 | .31 | .26 | .65 | |
| 10 x 0,75 | 8,5 | 7,1 | 16,5 | FI-VH-10x0.75-W69 |
| .39 x .03 | .33 | .28 | .65 | |
| 12 x 1,5 | 9 | 7,6 | 16,5 | FI-VH-12x1.5-W69 |
| .47 x .06 | .35 | .30 | .65 | |
| 12 x 1 | 10 | 8,6 | 16,5 | FI-VH-12x1-W69 |
| .47 x .04 | .39 | .34 | .65 | |
| 12 x 0,75 | 10,5 | 9,3 | 16,5 | FI-VH-12x0.75-W69 |
| .47 x .03 | .41 | .37 | .65 | |
| 14 x 1 | 12 | 10,2 | 18 | FI-VH-14x1-W69 |
| .55 x .04 | .47 | .40 | .71 | |
| 15 x 1,5 | 12 | 10,2 | 17 | FI-VH-15x1.5-W69 |
| .59 x .06 | .47 | .40 | .67 | |
| 15 x 1 | 13 | 11,2 | 17 | FI-VH-15x1-W69 |
| .59 x .04 | .51 | .44 | .67 | |
| 18 x 1,5 | 15 | 13,2 | 17,5 | FI-VH-18x1.5-W69 |
| .71 x .06 | .59 | .52 | .69 | |
| 18 x 1 | 16 | 14,2 | 17,5 | FI-VH-18x1-W69 |
| .71 x .04 | .63 | .56 | .69 | |
| 20 x 1 | 18 | 16,2 | 22 | FI-VH-20x1-W69 |
| .79 x .04 | .71 | .64 | .87 | |
| 22 x 1,5 | 19 | 17,2 | 18 | FI-VH-22x1.5-W69 |
| .87 x .06 | .75 | .68 | .71 | |
| 22 x 1 | 20 | 18,2 | 18 | FI-VH-22x1-W69 |
| .87 x .04 | .79 | .72 | .71 | |
| 25 x 1,5 | 22 | 20,2 | 23,5 | FI-VH-25x1.5-W69 |
| .98 x .06 | .87 | .80 | .93 | |
| 25 x 1 | 23 | 21,2 | 23,5 | FI-VH-25x1-W69 |
| .98 x .04 | .91 | .83 | .93 | |
| 28 x 2 | 24 | 22,2 | 23,5 | FI-VH-28x2-W69 |
| 1.10 x .08 | .94 | .87 | .93 | |
| 28 x 1,5 | 25 | 23,2 | 23,5 | FI-VH-28x1.5-W69 |
| 1.10 x .06 | .98 | .91 | .93 | |
| 28 x 1 | 26 | 24,2 | 23,5 | FI-VH-28x1-W69 |
| 1.10 x .04 | 1.02 | .95 | .93 | |
| 35 x 2 | 31 | 28,8 | 23,5 | FI-VH-35x2-W69 |
| 1.38 x .08 | 1.22 | 1.13 | .93 | |
| 35 x 1,5 | 32 | 29,8 | 23,5 | FI-VH-35x1.5-W69 |
| 1.38 x .06 | 1.26 | 1.17 | .93 | |
| 35 x 1 | 33 | 30,8 | 23,5 | FI-VH-35x1-W69 |
| 1.38 x .04 | 1.30 | 1.21 | .93 | |
| 42 x 2 | 38 | 35,8 | 23,5 | FI-VH-42x2-W69 |
| 1.65 x .08 | 1.50 | 1.41 | .93 | |
| 42 x 1,5 | 39 | 36,8 | 23,5 | FI-VH-42x1.5-W69 |
| 1.65 x .06 | 1.54 | 1.45 | .93 | |





**STAUFF Form Adaptor Ring
Type FI-AR ▪ Series L / S**



B

Ordering Codes

***FI-AR*-10*L*-V*-W3**

* STAUFF Form Ring with Integrated Elastomeric Sealing

* Outside Tube Diameter D1 (in mm)

* Series Light Series Heavy Series

* Seal Material FKM (Viton®)

* Material Code Steel, zinc/nickel-plated

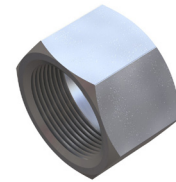
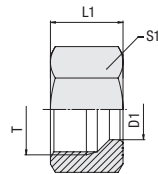
Please contact STAUFF for alternative materials and surface finishings.

FI-AR
-10
L
S
-V
-W3

| Series | Tube OD | | Dimensions | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes |
|--------|---------|-----------|------------|-----|------|--|------------------|
| | (mm/in) | (bar/psi) | (mm/in) | | | | |
| | D1 | | D2 | | L1 | | |
| L | 6 | 500 | 10,2 | | 5,3 | 0,09 | FI-AR-06L/S-V-W3 |
| | .24 | 7250 | .40 | | .21 | .20 | |
| | 8 | 500 | 12,2 | | 5,3 | 0,1 | FI-AR-08L/S-V-W3 |
| | .31 | 7250 | .48 | | .21 | .22 | |
| | 10 | 500 | 14,2 | | 5,9 | 0,17 | FI-AR-10L/S-V-W3 |
| | .39 | 7250 | .56 | | .23 | .37 | |
| | 12 | 400 | 16,2 | | 5,9 | 0,19 | FI-AR-12L/S-V-W3 |
| | .47 | 5800 | .64 | | .23 | .42 | |
| | 15 | 400 | 20,2 | | 5,3 | 0,23 | FI-AR-15L-V-W3 |
| | .59 | 5800 | .80 | | .21 | .51 | |
| | 18 | 400 | 24,2 | | 5 | 0,29 | FI-AR-18L-V-W3 |
| | .71 | 5800 | .95 | | .20 | .64 | |
| | 22 | 250 | 27,2 | | 6 | 0,42 | FI-AR-22L-V-W3 |
| | .87 | 3625 | 1.07 | | .24 | .92 | |
| | 28 | 250 | 33,2 | | 6 | 0,52 | FI-AR-28L-V-W3 |
| | 1.10 | 3625 | 1.31 | | .24 | 1.14 | |
| | 35 | 250 | 42,2 | | 6,3 | 0,94 | FI-AR-35L-V-W3 |
| | 1.38 | 3625 | 1.66 | | .25 | 2.07 | |
| 42 | 250 | 49,5 | | 8 | 1,09 | FI-AR-42L-V-W3 | |
| 1.65 | 3625 | 1.95 | | .31 | 2.40 | | |
| S | 6 | 800 | 10,2 | | 5,3 | 0,09 | FI-AR-06L/S-V-W3 |
| | .24 | 11600 | .40 | | .21 | .20 | |
| | 8 | 800 | 12,2 | | 5,3 | 0,1 | FI-AR-08L/S-V-W3 |
| | .31 | 11600 | .48 | | .21 | .22 | |
| | 10 | 800 | 14,2 | | 5,9 | 0,17 | FI-AR-10L/S-V-W3 |
| | .39 | 11600 | .56 | | .23 | .37 | |
| | 12 | 630 | 16,2 | | 5,9 | 0,19 | FI-AR-12L/S-V-W3 |
| | .47 | 9135 | .64 | | .23 | .42 | |
| | 16 | 630 | 22,2 | | 5 | 0,26 | FI-AR-16S-V-W3 |
| | .63 | 9135 | .87 | | .20 | .57 | |
| | 20 | 400 | 27,2 | | 5,2 | 0,42 | FI-AR-20S-V-W3 |
| | .79 | 5800 | 1.07 | | .20 | .92 | |
| | 25 | 400 | 33,2 | | 6 | 0,69 | FI-AR-25S-V-W3 |
| | .98 | 5800 | 1.31 | | .24 | 1.52 | |
| | 30 | 400 | 37,2 | | 6,3 | 0,79 | FI-AR-30S-V-W3 |
| | 1.18 | 5800 | 1.46 | | .25 | 1.74 | |
| | 38 | 400 | 49,5 | | 8 | 1,79 | FI-AR-38S-V-W3 |
| | 1.50 | 5800 | 1.95 | | .31 | 3.94 | |

Standard seal material is FKM (Viton®).



Union Nut
Type FI-M • Series LL / L / S

B

| Series | Tube OD | | Dimensions (mm/in) | L1 | S1 | Weight (kg/lbs) ca. per 100 ² | Ordering Codes | |
|--------|---------|-----------------|-----------------------|------------|-------|--|----------------|-------------|
| | (mm/in) | PN (bar/PSI) | | | | | | Thread T |
| LL | 4 | 100 | M 8 x 1 | 11 | 10 | 0,40 | FI-M-04LL-W3 | |
| | .16 | 1450 | | .43 | .39 | .88 | | |
| | 6 | 100 | M 10 x 1 | 11,5 | 12 | 0,50 | FI-M-06LL-W3 | |
| | .24 | 1450 | | .45 | .47 | 1.10 | | |
| | 8 | 100 | M 12 x 1 | 12 | 14 | 0,70 | FI-M-08LL-W3 | |
| | .31 | 1450 | | .47 | .55 | 1.54 | | |
| | 10 | 100 | M 14 x 1 | 12,5 | 17 | 1,10 | FI-M-10LL-W3 | |
| | .39 | 1450 | | .49 | .67 | 2.42 | | |
| | 12 | 100 | M 16 x 1 | 13 | 19 | 1,30 | FI-M-12LL-W3 | |
| | .47 | 1450 | | .51 | .75 | 2.86 | | |
| | L | 6 | 500 | M 12 x 1,5 | 14,5 | 14 | 0,90 | FI-M-06L-W3 |
| | | .24 | 7250 | | .57 | .55 | 1.98 | |
| 8 | | 500 | M 14 x 1,5 | 14,5 | 17 | 1,40 | FI-M-08L-W3 | |
| .31 | | 7250 | | .57 | .67 | 3.08 | | |
| 10 | | 500 | M 16 x 1,5 | 15,5 | 19 | 1,70 | FI-M-10L-W3 | |
| .39 | | 7250 | | .61 | .75 | 3.74 | | |
| 12 | | 400 | M 18 x 1,5 | 15,5 | 22 | 2,40 | FI-M-12L-W3 | |
| .47 | | 5800 | | .61 | .87 | 5.28 | | |
| 15 | | 400 | M 22 x 1,5 | 17 | 27 | 4,10 | FI-M-15L-W3 | |
| .59 | | 5800 | | .67 | 1.06 | 9.02 | | |
| 18 | | 400 | M 26 x 1,5 | 18 | 32 | 6,00 | FI-M-18L-W3 | |
| .71 | | 5800 | | .71 | 1.26 | 13.20 | | |
| 22 | | 250 | M 30 x 2 | 20 | 36 | 8,00 | FI-M-22L-W3 | |
| .87 | | 3625 | | .79 | 1.42 | 17.60 | | |
| 28 | | 250 | M 36 x 2 | 22 | 41 | 14,20 | FI-M-28L-W3 | |
| 1.10 | | 3625 | | .87 | 1.61 | 31.24 | | |
| 35 | | 250 | M 45 x 2 | 25 | 50 | 19,80 | FI-M-35L-W3 | |
| 1.38 | | 3625 | | .98 | 1.97 | 43.56 | | |
| 42 | 250 | M 52 x 2 | 25 | 60 | 22,00 | FI-M-42L-W3 | | |
| 1.65 | 3625 | | .98 | 2.36 | 48.40 | | | |
| S | 6 | 800 | M 14 x 1,5 | 16,5 | 17 | 1,70 | FI-M-06S-W3 | |
| | .24 | 11600 | | .65 | .67 | 3.74 | | |
| | 8 | 800 | M 16 x 1,5 | 16,5 | 19 | 2,00 | FI-M-08S-W3 | |
| | .31 | 11600 | | .65 | .75 | 4.40 | | |
| | 10 | 800 | M 18 x 1,5 | 17,5 | 22 | 3,00 | FI-M-10S-W3 | |
| | .39 | 11600 | | .69 | .87 | 6.60 | | |
| | 12 | 630 | M 20 x 1,5 | 17,5 | 24 | 3,40 | FI-M-12S-W3 | |
| | .47 | 9135 | | .69 | .94 | 7.48 | | |
| | 14 | 630 | M 22 x 1,5 | 20,5 | 27 | 5,20 | FI-M-14S-W3 | |
| | .55 | 9135 | | .81 | 1.06 | 11.44 | | |
| | 16 | 630 | M 24 x 1,5 | 20,5 | 30 | 6,50 | FI-M-16S-W3 | |
| | .63 | 9135 | | .81 | 1.18 | 14.30 | | |
| | 20 | 400 | M 30 x 2 | 24 | 36 | 10,10 | FI-M-20S-W3 | |
| | .79 | 5800 | | .94 | 1.42 | 22.22 | | |
| | 25 | 400 | M 36 x 2 | 27 | 46 | 19,80 | FI-M-25S-W3 | |
| | .98 | 5800 | | 1.06 | 1.81 | 43.56 | | |
| | 30 | 400 | M 42 x 2 | 29 | 50 | 21,60 | FI-M-30S-W3 | |
| | 1.18 | 5800 | | 1.14 | 1.97 | 47.52 | | |
| 38 | 400 | M52 x 2 | 32,5 | 60 | 31,40 | FI-M-38S-W3 | | |
| 1.50 | 5800 | | 1.28 | 2.36 | 69.08 | | | |

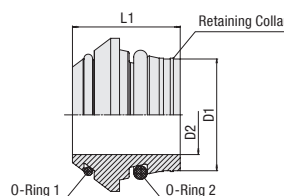
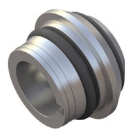
Ordering Codes
***FI-M*-10*L*-W3**

| | | |
|------------------------------------|---------------------------|-------------|
| * Union Nut | | FI-M |
| * Outside Tube Diameter D1 (in mm) | | -10 |
| * Series | Light Series | L |
| | Heavy Series | S |
| * Material Code | Steel, zinc/nickel-plated | -W3 |

Please contact STAUFF for alternative materials and surface finishings.



24°/37° Flared Cone Adaptor with O-Rings
Type FI-BA ▪ Series L / S



B

Ordering Codes

***FI-BA*-10*L*-B*-W3**

* 24°/37° Flared Cone Adaptor with O-Rings

FI-BA

* Outside Tube Diameter D1 (in mm)

-10

* Series
 Light Series
 Heavy Series

L

S

* Seal Material
 NBR (Buna-N®)
 FKM (Viton®)
 EPDM

-B

-V

-E

* Material Code
 Steel, zinc/nickel-plated

-W3

Please contact STAUFF for alternative materials and surface finishings.

Spare Parts / Accessories



O-Ring
 Type **O-RING**

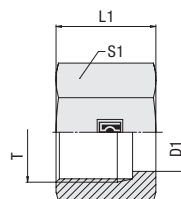
Page 207

| Series | Tube OD PN | | Dimensions | | | | Weight (^{kg} /lbs) ca. per 100 | Ordering Codes |
|--------|---------------|------------------------|---------------|------|------------|------------|--|------------------|
| | (mm/in) D1 | (^{bar} /psi) | (mm/in) D2 | L1 | O-Ring 1 | O-Ring 2 | | |
| L | 6 | 500 | 3 | 11,5 | 4,4 x 0,8 | 4,5 x 1,5 | 0,28 | FI-BA-06L/S-B-W3 |
| | .24 | 7250 | .12 | .45 | .17 x .03 | .18 x .06 | .62 | |
| | 8 | 500 | 5 | 12 | 6,0 x 0,8 | 6,5 x 1,5 | 0,40 | FI-BA-08L/S-B-W3 |
| | .31 | 7250 | .20 | .47 | .24 x .03 | .26 x .06 | .89 | |
| | 10 | 500 | 6 | 12,5 | 7,5 x 0,8 | 8,5 x 1,5 | 0,65 | FI-BA-10L/S-B-W3 |
| | .39 | 7250 | .24 | .49 | .30 x .03 | .33 x .06 | 1.43 | |
| | 12 | 400 | 8 | 12,5 | 9,5 x 0,8 | 10,0 x 1,5 | 0,80 | FI-BA-12L/S-B-W3 |
| | .47 | 5800 | .31 | .49 | .37 x .03 | .39 x .06 | 1.76 | |
| | 15 | 400 | 11 | 12,5 | 12,5 x 0,8 | 12,5 x 2,0 | 1,05 | FI-BA-15L-B-W3 |
| | .59 | 5800 | .43 | .49 | .49 x .03 | .49 x .08 | 2.31 | |
| | 18 | 400 | 14 | 13 | 15,0 x 1,0 | 16,0 x 2,0 | 1,26 | FI-BA-18L-B-W3 |
| | .71 | 5800 | .55 | .51 | .59 x .04 | .63 x .08 | 2.77 | |
| | 22 | 250 | 17 | 14,2 | 18,0 x 1,0 | 20,0 x 2,0 | 2,01 | FI-BA-22L-B-W3 |
| | .87 | 3625 | .67 | .56 | .71 x .04 | .79 x .08 | 4.43 | |
| | 28 | 250 | 23 | 14,7 | 23,0 x 1,0 | 26,0 x 2,0 | 2,82 | FI-BA-28L-B-W3 |
| | 1.10 | 3625 | .91 | .58 | .91 x .04 | 1.02 x .08 | 6.20 | |
| | 35 | 250 | 28 | 18,5 | 30,0 x 1,0 | 32,0 x 2,5 | 5,86 | FI-BA-35L-B-W3 |
| | 1.38 | 3625 | 1.10 | .73 | 1.18 x .04 | 1.26 x .10 | 12.88 | |
| | 42 | 250 | 35 | 20,5 | 37,0 x 1,0 | 38,0 x 2,5 | 4,40 | FI-BA-42L-B-W3 |
| | 1.65 | 3625 | 1.38 | .81 | 1.46 x .04 | 1.50 x .10 | 9.69 | |
| S | 6 | 630 | 3 | 11,5 | 4,4 x 0,8 | 4,5 x 1,5 | 0,28 | FI-BA-06L/S-B-W3 |
| | .24 | 9135 | .12 | .45 | .17 x .03 | .18 x .06 | .62 | |
| | 8 | 630 | 5 | 12 | 6,0 x 0,8 | 6,5 x 1,5 | 0,40 | FI-BA-08L/S-B-W3 |
| | .31 | 9135 | .20 | .47 | .24 x .03 | .26 x .06 | .89 | |
| | 10 | 630 | 6 | 12,5 | 7,5 x 0,8 | 8,5 x 1,5 | 0,65 | FI-BA-10L/S-B-W3 |
| | .39 | 9135 | .24 | .49 | .30 x .03 | .33 x .06 | 1.43 | |
| | 12 | 630 | 8 | 12,5 | 9,5 x 0,8 | 10,0 x 1,5 | 0,80 | FI-BA-12L/S-B-W3 |
| | .47 | 9135 | .31 | .49 | .37 x .03 | .39 x .06 | 1.76 | |
| | 14 | 630 | 9 | 14 | 11,0 x 1,0 | 12,0 x 2,0 | 1,20 | FI-BA-14S-B-W3 |
| | .55 | 9135 | .35 | .55 | .43 x .04 | .47 x .08 | 2.63 | |
| | 16 | 630 | 11 | 15 | 12,5 x 1,0 | 14,0 x 2,0 | 1,50 | FI-BA-16S-B-W3 |
| | .63 | 9135 | .43 | .59 | .49 x .04 | .55 x .08 | 3.30 | |
| | 20 | 400 | 14 | 18,5 | 16,0 x 1,0 | 17,3 x 2,4 | 2,73 | FI-BA-20S-B-W3 |
| | .79 | 5800 | .55 | .73 | .63 x .04 | .68 x .09 | 6.00 | |
| | 25 | 400 | 19 | 20 | 20,0 x 1,0 | 22,3 x 2,4 | 3,78 | FI-BA-25S-B-W3 |
| | .98 | 5800 | .75 | .79 | .79 x .04 | .88 x .09 | 8.32 | |
| | 30 | 400 | 23 | 22 | 25,0 x 1,0 | 27,3 x 2,4 | 3,82 | FI-BA-30S-B-W3 |
| | 1.18 | 5800 | .91 | .87 | .98 x .04 | 1.07 x .09 | 8.41 | |
| | 38 | 400 | 30 | 26 | 32,0 x 1,8 | 35,0 x 2,4 | 9,15 | FI-BA-38S-B-W3 |
| | 1.50 | 5800 | 1.18 | 1.02 | 1.26 x .07 | 1.38 x .09 | 20.13 | |

Standard seal material is NBR (Buna-N®).



**Union Nut for 37° Flared Tube Fittings
Type FI-BM ▪ Series L / S**



B

Ordering Codes

***FI-BM*-10*L*-W3**

* Union Nut for 37° Flared Tube Fittings

* Outside Tube Diameter D1 (in mm)

* Series Light Series Heavy Series

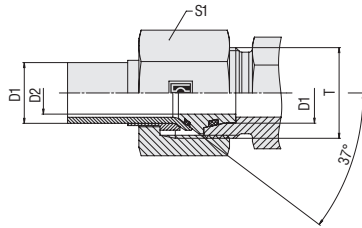
* Material Code Steel, zinc/nickel-plated

Please contact STAUFF for alternative materials and surface finishings.

FI-BM
-10
L
S
-W3

| Series | Tube OD PN | | Dimensions | | | | Weight (^{kg} / _{lbs}) ca. per 100 | Ordering Codes |
|--------|------------|-------------------------------------|---------------------|------|------|-------|---|----------------|
| | (mm/in) | (^{bar} / _{psi}) | (mm/in) Thread T | D1 | L1 | S1 | | |
| L | 6 | 500 | M 12 x 1,5 | 7,8 | 17 | 14 | 1,07 | FI-BM-06L-W3 |
| | .24 | 7250 | | .31 | .67 | .55 | 2.35 | |
| | 8 | 500 | M 14 x 1,5 | 9,5 | 18 | 17 | 1,82 | FI-BM-08L-W3 |
| | .31 | 7250 | | .37 | .71 | .67 | 4.01 | |
| | 10 | 500 | M 16 x 1,5 | 11,7 | 19,5 | 19 | 2,35 | FI-BM-10L-W3 |
| | .39 | 7250 | | .46 | .77 | .75 | 5.18 | |
| | 12 | 400 | M 18 x 1,5 | 13,8 | 20,5 | 22 | 3,36 | FI-BM-12L-W3 |
| | .47 | 5800 | | .54 | .81 | .87 | 7.38 | |
| | 15 | 400 | M 22 x 1,5 | 17,7 | 23 | 27 | 5,31 | FI-BM-15L-W3 |
| | .59 | 5800 | | .70 | .91 | 1.06 | 11.68 | |
| | 28 | 400 | M 26 x 1,5 | 21,2 | 23 | 32 | 7,22 | FI-BM-18L-W3 |
| | 1.10 | 5800 | | .83 | .91 | 1.26 | 15.88 | |
| | 22 | 250 | M 30 x 2 | 24,4 | 27,5 | 36 | 10,60 | FI-BM-22L-W3 |
| | .87 | 3625 | | .96 | 1.08 | 1.42 | 23.32 | |
| | 18 | 250 | M 36 x 2 | 30,4 | 27,5 | 41 | 11,47 | FI-BM-28L-W3 |
| | .71 | 3625 | | 1.20 | 1.08 | 1.61 | 25.24 | |
| | 35 | 250 | M 45 x 2 | 38,3 | 30 | 50 | 16,27 | FI-BM-35L-W3 |
| | 1.38 | 3625 | | 1.51 | 1.18 | 1.97 | 35.80 | |
| 42 | 250 | M 52 x 2 | 45,3 | 34 | 60 | 30,39 | FI-BM-42L-W3 | |
| 1.65 | 3625 | | 1.78 | 1.34 | 2.36 | 66.86 | | |
| S | 6 | 630 | M 14 x 1,5 | 7,8 | 18 | 17 | 2,03 | FI-BM-06S-W3 |
| | .24 | 9135 | | .31 | .71 | .67 | 4.46 | |
| | 8 | 630 | M 16 x 1,5 | 9,5 | 19 | 19 | 2,52 | FI-BM-08S-W3 |
| | .31 | 9135 | | .37 | .75 | .75 | 5.54 | |
| | 10 | 630 | M 18 x 1,5 | 11,7 | 20,5 | 22 | 3,58 | FI-BM-10S-W3 |
| | .39 | 9135 | | .46 | .81 | .87 | 7.88 | |
| | 12 | 630 | M 20 x 1,5 | 13,8 | 21 | 24 | 4,11 | FI-BM-12S-W3 |
| | .47 | 9135 | | .54 | .83 | .94 | 9.05 | |
| | 14 | 630 | M 22 x 1,5 | 17,7 | 23 | 27 | 5,38 | FI-BM-14S-W3 |
| | .55 | 9135 | | .70 | .91 | 1.06 | 11.84 | |
| | 16 | 630 | M 24 x 1,5 | 18,7 | 26,5 | 30 | 7,87 | FI-BM-16S-W3 |
| | .63 | 9135 | | .74 | 1.04 | 1.18 | 17.31 | |
| | 20 | 400 | M 30 x 2 | 24,4 | 27,5 | 36 | 10,61 | FI-BM-20S-W3 |
| | .79 | 5800 | | .96 | 1.08 | 1.42 | 23.35 | |
| | 25 | 400 | M 36 x 2 | 28,7 | 30,5 | 46 | 22,19 | FI-BM-25S-W3 |
| | .98 | 5800 | | 1.13 | 1.20 | 1.81 | 48.81 | |
| | 30 | 400 | M 42 x 2 | 34,2 | 32 | 50 | 23,20 | FI-BM-30S-W3 |
| | 1.18 | 5800 | | 1.35 | 1.26 | 1.97 | 51.04 | |
| 38 | 400 | M 52 x 2 | 42,3 | 38 | 60 | 35,40 | FI-BM-38S-W3 | |
| 1.50 | 5800 | | 1.67 | 1.50 | 2.36 | 77.89 | | |



**37° Flared Tube Fitting Set
Type FI-AB ■ Series L / S**

B

| Series | Tube OD PN | | Dimensions | | | Weight (kg/lbs) ca. per 100 | Ordering Codes |
|--------|------------|-----------|------------|----------|--------|-----------------------------------|----------------|
| | (mm/in) | (bar/PSI) | (mm/in) | Thread T | D2 | | |
| L | 6 | 500 | M 12 x 1,5 | 3 | 14 | 1,74 | FI-AB-06L-B-W3 |
| | .24 | 7250 | | .12 | .55 | 3,83 | |
| | 8 | 500 | M 14 x 1,5 | 5 | 17 | 2,50 | FI-AB-08L-B-W3 |
| | .31 | 7250 | | .20 | .67 | 5,50 | |
| | 10 | 500 | M 16 x 1,5 | 6 | 19 | 3,38 | FI-AB-10L-B-W3 |
| | .39 | 7250 | | .24 | .75 | 7,43 | |
| | 12 | 400 | M 18 x 1,5 | 8 | 22 | 4,83 | FI-AB-12L-B-W3 |
| | .47 | 5800 | | .31 | .87 | 10,62 | |
| | 15 | 400 | M 22 x 1,5 | 11 | 27 | 4,66 | FI-AB-15L-B-W3 |
| | .59 | 5800 | | .43 | 1.06 | 10,24 | |
| | 18 | 400 | M 26 x 1,5 | 14 | 32 | 10,11 | FI-AB-18L-B-W3 |
| | .71 | 5800 | | .55 | 1.26 | 22,25 | |
| | 22 | 250 | M 30 x 2 | 17 | 36 | 14,25 | FI-AB-22L-B-W3 |
| | .87 | 3625 | | .67 | 1.42 | 31,35 | |
| | 28 | 250 | M 36 x 2 | 23 | 41 | 16,47 | FI-AB-28L-B-W3 |
| | 1.10 | 3625 | | .91 | 1.61 | 36,23 | |
| | 35 | 250 | M 45 x 2 | 28 | 50 | 25,86 | FI-AB-35L-B-W3 |
| | 1.38 | 3625 | | 1.10 | 1.97 | 56,90 | |
| 42 | 250 | M 52 x 2 | 35 | 60 | 42,85 | FI-AB-42L-B-W3 | |
| 1.65 | 3625 | | 1.38 | 2.36 | 94,27 | | |
| S | 6 | 630 | M 14 x 1,5 | 3 | 17 | 2,51 | FI-AB-06S-B-W3 |
| | .24 | 9135 | | .12 | .67 | 5,53 | |
| | 8 | 630 | M 16 x 1,5 | 5 | 19 | 3,39 | FI-AB-08S-B-W3 |
| | .31 | 9135 | | .20 | .75 | 7,46 | |
| | 10 | 630 | M 18 x 1,5 | 6 | 22 | 4,77 | FI-AB-10S-B-W3 |
| | .39 | 9135 | | .24 | .87 | 10,49 | |
| | 12 | 630 | M 20 x 1,5 | 8 | 24 | 5,63 | FI-AB-12S-B-W3 |
| | .47 | 9135 | | .31 | .94 | 12,39 | |
| | 14 | 630 | M 22 x 1,5 | 9 | 27 | 7,77 | FI-AB-14S-B-W3 |
| | .55 | 9135 | | .35 | 1.06 | 17,10 | |
| | 16 | 630 | M 24 x 1,5 | 11 | 30 | 10,88 | FI-AB-16S-B-W3 |
| | .63 | 9135 | | .43 | 1.18 | 23,94 | |
| | 20 | 400 | M 30 x 2 | 14 | 36 | 15,90 | FI-AB-20S-B-W3 |
| | .79 | 5800 | | .55 | 1.42 | 34,98 | |
| | 25 | 400 | M 36 x 2 | 19 | 46 | 29,34 | FI-AB-25S-B-W3 |
| | .98 | 5800 | | .75 | 1.81 | 64,54 | |
| | 30 | 400 | M 42 x 2 | 23 | 50 | 33,64 | FI-AB-30S-B-W3 |
| | 1.18 | 5800 | | .91 | 1.97 | 74,00 | |
| 38 | 400 | M 52 x 2 | 30 | 60 | 52,40 | FI-AB-38S-B-W3 | |
| 1.50 | 5800 | | 1.18 | 2.36 | 115,28 | | |

Ordering Codes
***FI-AB*-10*L*-B*-W3**

| | | |
|------------------------------------|---------------------------|--------------|
| * 37° Flared Tube Fitting Set | | FI-AB |
| * Outside Tube Diameter D1 (in mm) | | -10 |
| * Series | Light Series | L |
| | Heavy Series | S |
| * Seal Material | NBR (Buna-N®) | -B |
| | FKM (Viton®) | -V |
| | EPDM | -E |
| * Material Code | Steel, zinc/nickel-plated | -W3 |

Please contact STAUFF for alternative materials and surface finishings.

Spare Parts / Accessories

 O-Ring
Type **O-RING**

Page 207

Standard seal material is NBR (Buna-N®).





Straight Male Stud Fitting 38-61

FI-GE



**Whitworth Parallel Pipe Thread (BSPP) /
Metallic Sealing Edge** 38
FI-GE-...-R



**Metric Parallel Thread /
Metallic Sealing Edge** 42
FI-GE-...-M



**Whitworth Parallel Pipe Thread (BSPP) /
Profile Sealing Ring** 44
FI-GE-...-R-WD



**Metric Parallel Thread /
Profile Sealing Ring** 48
FI-GE-...-M-WD



**BSPP Thread / 60° Conical Bore /
Sealing Surface for Gaskets** 50
FI-GE-...-R-DF



**Metric Parallel Thread /
O-Ring** 52
FI-GE-...-M-OR



Whitworth Taper Pipe Thread (BSPT) 54
FI-GE-...-Rk



Metric Taper Thread 56
FI-GE-...-Mk



NPT Thread 58
FI-GE-...-N



**UN/UNF Thread /
O-Ring** 60
FI-GE-...-U

Male Stud Elbow
 FI-WE

62-67


**Whitworth Parallel Pipe Thread (BSPP) /
 Metallic Sealing Edge**
 FI-WE-...-R

62


**Metric Parallel Thread /
 Metallic Sealing Edge**
 FI-WE-...-M

63


Whitworth Taper Pipe Thread (BSPT)
 FI-WE-...-Rk

64


Metric Taper Thread
 FI-WE-...-Mk

65


NPT Thread
 FI-WE-...-N

66

Male Stud Branch Tee
 FI-TE

68-73


**Whitworth Parallel Pipe Thread (BSPP) /
 Metallic Sealing Edge**
 FI-TE-...-R

68


**Metric Parallel Thread /
 Metallic Sealing Edge**
 FI-TE-...-M

69


Whitworth Taper Pipe Thread (BSPT)
 FI-TE-...-Rk

70


Metric Taper Thread
 FI-TE-...-Mk

71


NPT Thread
 FI-TE-...-N

72

Male Stud Barrel Tee
 FI-LE

74-79


**Whitworth Parallel Pipe Thread (BSPP) /
 Metallic Sealing Edge**
 FI-LE-...-R

74


**Metric Parallel Thread /
 Metallic Sealing Edge**
 FI-LE-...-M

75


Whitworth Taper Pipe Thread (BSPT)
 FI-LE-...-Rk

76


Metric Taper Thread
 FI-LE-...-Mk

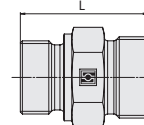
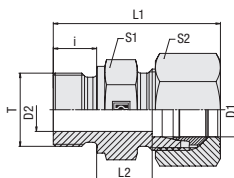
77


NPT Thread
 FI-LE-...-N

78

C


Straight Male Stud Fitting
Type FI-GE-...-R • Series L



C

Ordering Codes

***FI-GE*-10*L*R*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Light Series (pages 38/39) **L**
Heavy Series (pages 40/41) **S**
- * Thread Type Whitworth Parallel Pipe Thread (BSPP) **R**
- If required, please indicate special sizes, e.g. R1/8!
- * Material Code Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body only **—**
- Fitting body supplied with cutting ring and union nut **-MS**
- Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

Whitworth Parallel Pipe Thread (BSPP)

Metallic Sealing Edge

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | Torque (N-m/ft-lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|-----|-----|------|------|-----------------|------|------|-------|----------|-----------------------|--|-----------------------------|
| | | | Thread | T | D2 | i | L | L1 ¹ | L2 | S1 | S2 | Thread T | | | |
| L | 6 | 400 | G 1/8 | 4 | 8 | 23,5 | 31,5 | 8,5 | 14 | 14 | 18 | 1,37 | FI-GE-06LR-W3 | | |
| | .24 | 5800 | | .16 | .31 | .93 | 1.24 | .33 | .55 | .55 | 13.3 | 3.01 | FI-GE-06LR1/4-W3 | | |
| 6 | 400 | 400 | G 1/4 | 4 | 12 | 29 | 37 | 10 | 19 | 14 | 65 | 2,84 | FI-GE-06LR1/4-W3 | | |
| | .24 | 5800 | | .16 | .47 | 1.14 | 1.46 | .39 | .75 | .55 | 48.1 | 6.24 | FI-GE-06LR3/8-W3 | | |
| 6 | 400 | 400 | G 3/8 | 4 | 12 | 30,5 | 38,5 | 11,5 | 22 | 14 | 70 | 4,13 | FI-GE-06LR3/8-W3 | | |
| | .24 | 5800 | | .16 | .47 | 1.20 | 1.52 | .45 | .87 | .55 | 51.8 | 9.08 | FI-GE-06LR1/2-W3 | | |
| 6 | 400 | 400 | G 1/2 | 4 | 14 | 33 | 41 | 12 | 27 | 14 | 190 | 6,48 | FI-GE-06LR1/2-W3 | | |
| | .24 | 5800 | | .16 | .55 | 1.30 | 1.61 | .47 | 1.06 | .55 | 140.6 | 14.26 | FI-GE-08LR1/8-W3 | | |
| 8 | 400 | 400 | G 1/8 | 4 | 8 | 24,5 | 32,5 | 9,5 | 14 | 17 | 18 | 1,61 | FI-GE-08LR1/8-W3 | | |
| | .31 | 5800 | | .16 | .31 | .96 | 1.28 | .37 | .55 | .67 | 13.3 | 3.54 | FI-GE-08LR-W3 | | |
| 8 | 400 | 400 | G 1/4 | 6 | 12 | 29 | 37 | 10 | 19 | 17 | 65 | 2,72 | FI-GE-08LR-W3 | | |
| | .31 | 5800 | | .24 | .47 | 1.14 | 1.46 | .39 | .75 | .67 | 48.1 | 5.97 | FI-GE-08LR3/8-W3 | | |
| 8 | 400 | 400 | G 3/8 | 6 | 12 | 30,5 | 38,5 | 11 | 22 | 17 | 70 | 4,46 | FI-GE-08LR3/8-W3 | | |
| | .31 | 5800 | | .24 | .47 | 1.20 | 1.52 | .43 | .87 | .67 | 51.8 | 9.81 | FI-GE-08LR1/2-W3 | | |
| 8 | 400 | 400 | G 1/2 | 6 | 14 | 33 | 41 | 12 | 27 | 17 | 190 | 7,51 | FI-GE-08LR1/2-W3 | | |
| | .31 | 5800 | | .24 | .55 | 1.30 | 1.61 | .47 | 1.06 | .67 | 140.6 | 16.53 | FI-GE-10LR1/8-W3 | | |
| 10 | 400 | 400 | G 1/8 | 4 | 8 | 25,5 | 33,5 | 1,5 | 17 | 19 | 18 | 2,00 | FI-GE-10LR1/8-W3 | | |
| | .39 | 5800 | | .16 | .31 | 1.00 | 1.32 | .41 | .67 | .75 | 13.3 | 4.40 | FI-GE-10LR-W3 | | |
| 10 | 400 | 400 | G 1/4 | 6 | 12 | 30 | 38 | 11 | 19 | 19 | 65 | 2,95 | FI-GE-10LR-W3 | | |
| | .39 | 5800 | | .24 | .47 | 1.18 | 1.50 | .43 | .75 | .75 | 48.1 | 6.48 | FI-GE-10LR3/8-W3 | | |
| 10 | 400 | 400 | G 3/8 | 8 | 12 | 31,5 | 39,5 | 12,5 | 22 | 19 | 70 | 4,29 | FI-GE-10LR3/8-W3 | | |
| | .39 | 5800 | | .31 | .47 | 1.24 | 1.56 | .49 | .87 | .75 | 51.8 | 9.44 | FI-GE-10LR1/2-W3 | | |
| 10 | 400 | 400 | G 1/2 | 8 | 14 | 34 | 42 | 13 | 27 | 19 | 190 | 7,08 | FI-GE-10LR1/2-W3 | | |
| | .39 | 5800 | | .31 | .55 | 1.34 | 1.65 | .51 | 1.06 | .75 | 140.6 | 15.58 | FI-GE-10LR3/4-W3 | | |
| 10 | 400 | 400 | G 3/4 | 8 | 16 | 37,5 | 45,5 | 14,5 | 32 | 19 | 180 | 9,29 | FI-GE-10LR3/4-W3 | | |
| | .39 | 5800 | | .31 | .63 | 1.48 | 1.79 | .57 | 1.26 | .75 | 133.2 | 20.43 | FI-GE-12LR1/8-W3 | | |
| 12 | 400 | 400 | G 1/8 | 4 | 8 | 26,5 | 34,5 | 11,5 | 19 | 22 | 18 | 2,49 | FI-GE-12LR1/8-W3 | | |
| | .47 | 5800 | | .16 | .31 | 1.04 | 1.36 | .45 | .75 | .87 | 13.3 | 5.48 | FI-GE-12LR1/4-W3 | | |
| 12 | 400 | 400 | G 1/4 | 6 | 12 | 31 | 39 | 12 | 19 | 22 | 65 | 3,10 | FI-GE-12LR1/4-W3 | | |
| | .47 | 5800 | | .24 | .47 | 1.22 | 1.54 | .47 | .75 | .87 | 48.1 | 6.81 | FI-GE-12LR-W3 | | |
| 12 | 400 | 400 | G 3/8 | 9 | 12 | 31,5 | 39,5 | 12,5 | 22 | 22 | 70 | 4,24 | FI-GE-12LR-W3 | | |
| | .47 | 5800 | | .35 | .47 | 1.24 | 1.56 | .49 | .87 | .87 | 51.8 | 9.32 | FI-GE-12LR1/2-W3 | | |
| 12 | 400 | 400 | G 1/2 | 10 | 14 | 34 | 42 | 13 | 27 | 22 | 190 | 6,67 | FI-GE-12LR1/2-W3 | | |
| | .47 | 5800 | | .39 | .55 | 1.34 | 1.65 | .51 | 1.06 | .87 | 140.6 | 14.68 | FI-GE-12LR3/4-W3 | | |
| 12 | 400 | 400 | G 3/4 | 10 | 16 | 37 | 45 | 14 | 32 | 22 | 180 | 10,83 | FI-GE-12LR3/4-W3 | | |
| | .47 | 5800 | | .39 | .63 | 1.46 | 1.77 | .55 | 1.26 | .87 | 133.2 | 23.83 | FI-GE-15LR1/4-W3 | | |
| 15 | 400 | 400 | G 1/4 | 6 | 12 | 33 | 41 | 14 | 24 | 27 | 65 | 4,93 | FI-GE-15LR1/4-W3 | | |
| | .59 | 5800 | | .24 | .47 | 1.30 | 1.61 | .55 | .94 | 1.06 | 48.1 | 10.85 | FI-GE-15LR3/8-W3 | | |
| 15 | 400 | 400 | G 3/8 | 9 | 12 | 32,5 | 4,5 | 13 | 24 | 27 | 70 | 5,03 | FI-GE-15LR3/8-W3 | | |
| | .59 | 5800 | | .35 | .47 | 1.28 | 1.59 | .51 | .94 | 1.06 | 51.8 | 11.06 | FI-GE-15LR-W3 | | |
| 15 | 400 | 400 | G 1/2 | 11 | 14 | 35 | 43 | 14 | 27 | 27 | 190 | 6,53 | FI-GE-15LR-W3 | | |
| | .59 | 5800 | | .43 | .55 | 1.38 | 1.69 | .55 | 1.06 | 1.06 | 140.6 | 14.37 | FI-GE-15LR3/4-W3 | | |
| 15 | 400 | 400 | G 3/4 | 12 | 16 | 38 | 46 | 15 | 32 | 27 | 180 | 10,06 | FI-GE-15LR3/4-W3 | | |
| | .59 | 5800 | | .47 | .63 | 1.50 | 1.81 | .59 | 1.26 | 1.06 | 133.2 | 22.14 | | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-2 (Form B) / ISO 1179-4 (Type B)
Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

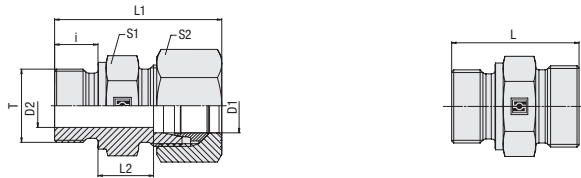
Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.



Straight Male Stud Fitting
Type FI-GE-...-R • Series L



C

Metallic Sealing Edge

Whitworth Parallel Pipe Thread (BSPP)

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | Torque (N-m/ft-lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|-----|------|------|-----------------|------|------|-----------------------|--|-----------------------------|
| | | | Thread | T | D2 | i | L | L1 ¹ | L2 | S1 | | | |
| L | 18 | 250 | G 3/8 | 9 | 12 | 33,5 | 42,5 | 14 | 27 | 32 | 70 | 6,41 | FI-GE-18LR3/8-W3 |
| | .71 | 3625 | | .35 | .47 | 1.32 | 1.67 | .55 | 1.06 | 1.26 | 51.8 | 14.11 | |
| | 18 | 250 | G 1/2 | 14 | 14 | 36 | 45 | 14,5 | 27 | 32 | 190 | 7,13 | FI-GE-18LR-W3 |
| | .71 | 3625 | | .55 | .55 | 1.42 | 1.77 | .57 | 1.06 | 1.26 | 140.6 | 15.69 | |
| | 18 | 250 | G 3/4 | 15 | 16 | 38 | 47 | 14,5 | 32 | 32 | 180 | 11,28 | FI-GE-18LR3/4-W3 |
| | .71 | 3625 | | .59 | .63 | 1.50 | 1.85 | .57 | 1.26 | 1.26 | 133.2 | 24.82 | |
| | 18 | 250 | G 1 | 15 | 18 | 40 | 49 | 14,5 | 41 | 32 | 330 | 15,87 | FI-GE-18LR1-W3 |
| | .71 | 3625 | | .59 | .71 | 1.57 | 1.93 | .57 | 1.61 | 1.26 | 244.2 | 34.91 | |
| | 22 | 250 | G 1/2 | 14 | 14 | 38 | 47 | 16,5 | 32 | 36 | 190 | 8,57 | FI-GE-22LR1/2-W3 |
| | .87 | 3625 | | .55 | .55 | 1.50 | 1.85 | .65 | 1.26 | 1.42 | 140.6 | 18.85 | |
| | 22 | 250 | G 3/4 | 18 | 16 | 40 | 49 | 16,5 | 32 | 36 | 180 | 10,48 | FI-GE-22LR-W3 |
| | .87 | 3625 | | .71 | .63 | 1.57 | 1.93 | .65 | 1.26 | 1.42 | 133.2 | 23.06 | |
| | 22 | 250 | G 1 | 19 | 18 | 43 | 52 | 17,5 | 41 | 36 | 330 | 19,17 | FI-GE-22LR1-W3 |
| | .87 | 3625 | | .75 | .71 | 1.69 | 2.05 | .69 | 1.61 | 1.42 | 244.2 | 42.17 | |
| | 28 | 250 | G 1/2 | 14 | 14 | 39 | 48 | 17,5 | 41 | 41 | 190 | 6,11 | FI-GE-28LR1/2-W3 |
| | 1.10 | 3625 | | .55 | .55 | 1.54 | 1.89 | .69 | 1.61 | 1.61 | 140.6 | 13.43 | |
| | 28 | 250 | G 3/4 | 18 | 16 | 41 | 50 | 17,5 | 41 | 41 | 180 | 14,42 | FI-GE-28LR3/4-W3 |
| | 1.10 | 3625 | | .71 | .63 | 1.61 | 1.97 | .69 | 1.61 | 1.61 | 133.2 | 31.72 | |
| | 28 | 250 | G 1 | 23 | 18 | 43 | 52 | 17,5 | 41 | 41 | 330 | 17,08 | FI-GE-28LR-W3 |
| | 1.10 | 3625 | | .91 | .71 | 1.69 | 2.05 | .69 | 1.61 | 1.61 | 244.2 | 37.58 | |
| | 28 | 250 | G 1 1/4 | 24 | 20 | 46 | 55 | 18,5 | 50 | 41 | 750 | 13,40 | FI-GE-28LR1-1/4-W3 |
| | 1.10 | 3625 | | .94 | .79 | 1.81 | 2.17 | .73 | 1.97 | 1.61 | 555 | 29.48 | |
| | 35 | 250 | G 1 | 23 | 18 | 46 | 57 | 17,5 | 46 | 50 | 330 | 22,45 | FI-GE-35LR1-W3 |
| | 1.38 | 3625 | | .91 | .71 | 1.81 | 2.24 | .69 | 1.81 | 1.97 | 244.2 | 49.38 | |
| | 35 | 250 | G 1 1/4 | 30 | 20 | 48 | 59 | 17,5 | 50 | 50 | 750 | 27,69 | FI-GE-35LR-W3 |
| | 1.38 | 3625 | | 1.18 | .79 | 1.89 | 2.32 | .69 | 1.97 | 1.97 | 555 | 60.92 | |
| | 35 | 250 | G 1 1/2 | 30 | 22 | 52 | 63 | 19,5 | 55 | 50 | 630 | 42,63 | FI-GE-35LR1-1/2-W3 |
| | 1.38 | 3625 | | 1.18 | .87 | 2.05 | 2.48 | .77 | 2.17 | 1.97 | 466.2 | 93.78 | |
| | 42 | 160 | G 1 | 23 | 18 | 48 | 60 | 19 | 55 | 60 | 330 | 32,20 | FI-GE-42LR1-W3 |
| | 1.65 | 2320 | | .91 | .71 | 1.89 | 2.36 | .75 | 2.17 | 2.36 | 244.2 | 70.84 | |
| | 42 | 160 | G 1 1/4 | 30 | 20 | 50 | 62 | 19 | 55 | 60 | 750 | 34,71 | FI-GE-42LR1-1/4-W3 |
| | 1.65 | 2320 | | 1.18 | .79 | 1.97 | 2.44 | .75 | 2.17 | 2.36 | 555 | 76.35 | |
| | 42 | 160 | G 1 1/2 | 36 | 22 | 52 | 64 | 19 | 55 | 60 | 630 | 34,78 | FI-GE-42LR-W3 |
| | 1.65 | 2320 | | 1.42 | .87 | 2.05 | 2.52 | .75 | 2.17 | 2.36 | 466.2 | 76.52 | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-2 (Form B) / ISO 1179-4 (Type B)
Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes

FI-GE-10*L*R*-W3*-MS

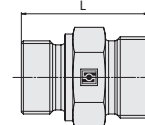
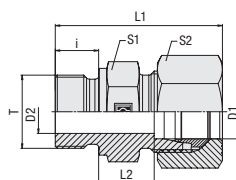
- * Straight Male Stud Fitting FI-GE
- * Outside Tube Diameter D1 (in mm) -10
- * Series L
Light Series (pages 38/39)
Heavy Series (pages 40/41) S
- * Thread Type R
Whitworth Parallel
Pipe Thread (BSPP)
- If required, please indicate special sizes, e.g. R1/8!
- * Material Code -W3
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting —
Fitting body only
- Fitting body supplied with cutting ring and union nut -MS
- Fitting body supplied with soft-sealing cutting ring and union nut -MSV

Connecting Parts

-  Cutting Ring
Type FI-DS Page 26
-  Soft-Sealing Cutting Ring
Type FI-WDDS Page 27
-  Support Sleeve
Type FI-VH Page 28
-  STAUFF Form Ring
Type FI-AR Page 30
-  Union Nut
Type FI-M Page 31
-  37° Flared Tube Fitting Set
Type FI-AB Page 35



Straight Male Stud Fitting
Type FI-GE-...-R • Series S



C

Whitworth Parallel Pipe Thread (BSPP)

Metallic Sealing Edge

Ordering Codes

***FI-GE*-10*L*R*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Light Series (pages 38/39) **L**
Heavy Series (pages 40/41) **S**
- * Thread Type Whitworth Parallel Pipe Thread (BSPP) **R**
- If required, please indicate special sizes, e.g. R1/8!
- * Material Code Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body only **—**
- Fitting body supplied with cutting ring and union nut **-MS**
- Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | Torque (Nm/ft-lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|-----|-----|------|-----------------|------|------|------|----------|-------|----------------------|--|-----------------------------|
| | | | Thread T | D2 | i | L | L1 ¹ | L2 | S1 | S2 | Thread T | | | | |
| S | 6 | 630 | G 1/4 | 4 | 12 | 32 | 40 | 13 | 19 | 17 | 125 | 3,49 | FI-GE-06SR-W3 | | |
| | .24 | 9135 | | .16 | .47 | 1.26 | 1.57 | .51 | .75 | .67 | 92.5 | 7.77 | | | |
| | 6 | 630 | G 3/8 | 4 | 12 | 34,5 | 42,5 | 15,5 | 22 | 17 | 90 | 2,29 | FI-GE-06SR3/8-W3 | | |
| | .24 | 9135 | | .16 | .47 | 1.36 | 1.67 | .61 | .87 | .67 | 66.6 | 5.03 | | | |
| | 6 | 630 | G 1/2 | 4 | 14 | 39 | 47 | 18 | 27 | 17 | 210 | 9,40 | FI-GE-06SR1/2-W3 | | |
| | .24 | 9135 | | .16 | .55 | 1.54 | 1.85 | .71 | 1.06 | .67 | 155.4 | 20.68 | | | |
| | 8 | 630 | G 1/4 | 5 | 12 | 34 | 42 | 15 | 19 | 19 | 125 | 4,06 | FI-GE-08SR-W3 | | |
| | .31 | 9135 | | .20 | .47 | 1.34 | 1.65 | .59 | .75 | .75 | 92.5 | 8.93 | | | |
| | 8 | 630 | G 3/8 | 5 | 12 | 34,5 | 42,5 | 15,5 | 22 | 19 | 90 | 5,77 | FI-GE-08SR3/8-W3 | | |
| | .31 | 9135 | | .20 | .47 | 1.36 | 1.67 | .61 | .87 | .75 | 66.6 | 12.69 | | | |
| | 8 | 630 | G 1/2 | 5 | 14 | 39 | 47 | 18 | 27 | 19 | 210 | 9,91 | FI-GE-08SR1/2-W3 | | |
| | .31 | 9135 | | .20 | .55 | 1.54 | 1.85 | .71 | 1.06 | .75 | 155.4 | 21.80 | | | |
| | 10 | 630 | G 1/4 | 5 | 12 | 34 | 43 | 14,5 | 19 | 22 | 125 | 4,35 | FI-GE-10SR1/4-W3 | | |
| | .39 | 9135 | | .20 | .47 | 1.34 | 1.69 | .57 | .75 | .87 | 92.5 | 9.57 | | | |
| | 10 | 630 | G 3/8 | 7 | 12 | 34,5 | 43,5 | 15 | 22 | 22 | 90 | 5,68 | FI-GE-10SR-W3 | | |
| | .39 | 9135 | | .28 | .47 | 1.36 | 1.71 | .59 | .87 | .87 | 66.6 | 12.50 | | | |
| | 10 | 630 | G 1/2 | 7 | 14 | 39 | 48 | 17,5 | 27 | 22 | 210 | 9,73 | FI-GE-10SR1/2-W3 | | |
| | .39 | 9135 | | .28 | .55 | 1.54 | 1.89 | .69 | 1.06 | .87 | 155.4 | 21.41 | | | |
| | 12 | 630 | G 1/4 | 5 | 12 | 36 | 45 | 16,5 | 22 | 24 | 125 | 5,93 | FI-GE-12SR1/4-W3 | | |
| | .47 | 9135 | | .20 | .47 | 1.42 | 1.77 | .65 | .87 | .94 | 92.5 | 13.05 | | | |
| | 12 | 630 | G 3/8 | 8 | 12 | 36,5 | 45,5 | 17 | 22 | 24 | 90 | 5,02 | FI-GE-12SR-W3 | | |
| | .47 | 9135 | | .31 | .47 | 1.44 | 1.79 | .67 | .87 | .94 | 66.6 | 11.04 | | | |
| | 12 | 630 | G 1/2 | 8 | 14 | 39 | 48 | 17,5 | 27 | 24 | 210 | 9,72 | FI-GE-12SR1/2-W3 | | |
| | .47 | 9135 | | .31 | .55 | 1.54 | 1.89 | .69 | 1.06 | .94 | 155.4 | 21.38 | | | |
| | 12 | 630 | G 3/4 | 8 | 16 | 43 | 52 | 19,5 | 32 | 24 | 270 | 16,48 | FI-GE-12SR3/4-W3 | | |
| | .47 | 9135 | | .31 | .63 | 1.69 | 2.05 | .77 | 1.26 | .94 | 199.8 | 36.26 | | | |
| | 14 | 630 | G 1/4 | 5 | 12 | 36 | 46 | 16 | 22 | 27 | 125 | 6,72 | FI-GE-14SR1/4-W3 | | |
| | .55 | 9135 | | .20 | .47 | 1.42 | 1.81 | .63 | .87 | 1.06 | 92.5 | 14.78 | | | |
| | 14 | 630 | G 3/8 | 8 | 12 | 38,5 | 48,5 | 18,5 | 22 | 27 | 90 | 6,95 | FI-GE-14SR3/8-W3 | | |
| | .55 | 9135 | | .31 | .47 | 1.52 | 1.91 | .73 | .87 | 1.06 | 66.6 | 15.29 | | | |
| | 14 | 630 | G 1/2 | 10 | 14 | 41 | 51 | 19 | 27 | 27 | 210 | 9,79 | FI-GE-14SR-W3 | | |
| | .55 | 9135 | | .39 | .55 | 1.61 | 2.01 | .75 | 1.06 | 1.06 | 155.4 | 21.54 | | | |
| | 14 | 630 | G 3/4 | 10 | 16 | 45 | 55 | 21 | 32 | 27 | 270 | 16,30 | FI-GE-14SR3/4-W3 | | |
| | .55 | 9135 | | .39 | .63 | 1.77 | 2.17 | .83 | 1.26 | 1.06 | 199.8 | 35.86 | | | |
| | 16 | 500 | G 3/8 | 8 | 12 | 38,5 | 48,5 | 18 | 27 | 30 | 90 | 6,42 | FI-GE-16SR3/8-W3 | | |
| | .63 | 7250 | | .31 | .47 | 1.52 | 1.91 | .71 | 1.06 | 1.18 | 66.6 | 14.12 | | | |
| | 16 | 500 | G 1/2 | 12 | 14 | 41 | 51 | 18,5 | 27 | 30 | 210 | 9,15 | FI-GE-16SR-W3 | | |
| | .63 | 7250 | | .47 | .55 | 1.61 | 2.01 | .73 | 1.06 | 1.18 | 155.4 | 21.13 | | | |
| | 16 | 400 | G 3/4 | 12 | 16 | 45 | 55 | 20,5 | 32 | 30 | 270 | 15,75 | FI-GE-16SR3/4-W3 | | |
| | .63 | 5800 | | .47 | .63 | 1.77 | 2.17 | .81 | 1.26 | 1.18 | 199.8 | 34.65 | | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

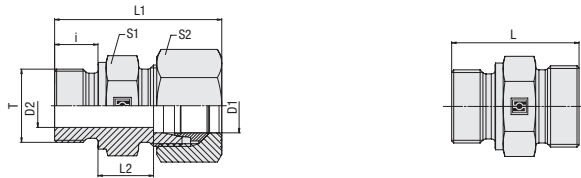
Male stud acc. to DIN 3852-2 (Form B) / ISO 1179-4 (Type B)
Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.



**Straight Male Stud Fitting
Type FI-GE-...-R • Series S**

C
Metallic Sealing Edge
Whitworth Parallel Pipe Thread (BSPP)

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | | | Torque (N-m/ft-lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|-----|------|------|------|-----------------|------|-------|--------|--------------------|-----------------------|--|-----------------------------|
| | | | Thread | T | D2 | i | L | L1 ¹ | L2 | S1 | S2 | Thread | | | |
| S | 20 | 400 | G 1/2 | 12 | 14 | 45 | 56 | 20.5 | 32 | 36 | 210 | 13.69 | FI-GE-20SR1/2-W3 | | |
| | .79 | 5800 | | .47 | .55 | 1.77 | 2.20 | .81 | 1.26 | 1.42 | 155.4 | 30.11 | | | |
| | 20 | 400 | G 3/4 | 16 | 16 | 47 | 58 | 20.5 | 32 | 36 | 270 | 15.24 | FI-GE-20SR-W3 | | |
| | .79 | 5800 | | .63 | .63 | 1.85 | 2.28 | .81 | 1.26 | 1.42 | 199.8 | 33.54 | | | |
| | 20 | 400 | G 1 | 16 | 18 | 51 | 62 | 22.5 | 41 | 36 | 340 | 25.90 | FI-GE-20SR1-W3 | | |
| | .79 | 5800 | | .63 | .71 | 2.01 | 2.44 | .89 | 1.61 | 1.42 | 251.6 | 56.98 | | | |
| | 25 | 400 | G 3/4 | 16 | 16 | 51 | 63 | 23 | 41 | 46 | 270 | 24.73 | FI-GE-25SR3/4-W3 | | |
| | .98 | 5800 | | .63 | .63 | 2.01 | 2.48 | .91 | 1.61 | 1.81 | 199.8 | 54.40 | | | |
| | 25 | 400 | G 1 | 20 | 18 | 53 | 65 | 23 | 41 | 46 | 340 | 26.89 | FI-GE-25SR-W3 | | |
| | .98 | 5800 | | .79 | .71 | 2.09 | 2.56 | .91 | 1.61 | 1.81 | 251.6 | 59.16 | | | |
| | 25 | 250 | G 1 1/4 | 20 | 20 | 55 | 67 | 23 | 50 | 46 | 650 | 23.28 | FI-GE-25SR1-1/4-W3 | | |
| | .98 | 3625 | | .79 | .79 | 2.17 | 2.64 | .91 | 1.97 | 1.81 | 481 | 51.22 | | | |
| | 30 | 250 | G 1 | 20 | 18 | 55 | 68 | 23.5 | 46 | 50 | 340 | 33.52 | FI-GE-30SR1-W3 | | |
| | 1.18 | 3625 | | .79 | .71 | 2.17 | 2.68 | .93 | 1.81 | 1.97 | 251.6 | 73.75 | | | |
| | 30 | 250 | G 1 1/4 | 25 | 20 | 57 | 70 | 23.5 | 50 | 50 | 650 | 42.11 | FI-GE-30SR-W3 | | |
| | 1.18 | 3625 | | .98 | .79 | 2.24 | 2.76 | .93 | 1.97 | 1.97 | 481 | 92.65 | | | |
| | 30 | 250 | G 1 1/2 | 25 | 22 | 59 | 72 | 23.5 | 55 | 50 | 700 | 57.10 | FI-GE-30SR1-1/2-W3 | | |
| | 1.18 | 3625 | | .98 | .87 | 2.32 | 2.83 | .93 | 2.17 | 1.97 | 518.0 | 125.63 | | | |
| | 38 | 160 | G 1 | 20 | 18 | 62 | 77 | 28 | 55 | 60 | 340 | 52.40 | FI-GE-38SR1-W3 | | |
| | 1.50 | 2320 | | .79 | .71 | 2.44 | 3.03 | 1.10 | 2.17 | 2.36 | 251.6 | 115.28 | | | |
| 38 | 160 | G 1 1/4 | 25 | 20 | 62 | 75 | 26 | 55 | 60 | 650 | 57.22 | FI-GE-38SR1-1/4-W3 | | | |
| 1.50 | 2320 | | .98 | .79 | 2.44 | 2.95 | 1.02 | 2.17 | 2.36 | 481 | 125.88 | | | | |
| 38 | 160 | G 1 1/2 | 32 | 22 | 64 | 77 | 26 | 55 | 60 | 700 | 56.30 | FI-GE-38SR-W3 | | | |
| 1.50 | 2320 | | 1.26 | .87 | 2.52 | 3.03 | 1.02 | 2.17 | 2.36 | 518.0 | 123.86 | | | | |

Ordering Codes
***FI-GE*-10*L*R*-W3*-MS**

| | |
|---|---|
| * Straight Male Stud Fitting | FI-GE |
| * Outside Tube Diameter D1 (in mm) | -10 |
| * Series | Light Series (pages 38/39) L Heavy Series (pages 40/41) S |
| * Thread Type | Whitworth Parallel Pipe Thread (BSPP) R |
| If required, please indicate special sizes, e.g. R1/8! | |
| * Material Code | Steel, zinc/nickel-plated -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | |
| * Assembling / Kitting | Fitting body only — Fitting body supplied with cutting ring and union nut -MS Fitting body supplied with soft-sealing cutting ring and union nut -MSV |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

 Male stud acc. to DIN 3852-2 (Form B) / ISO 1179-4 (Type B)
 Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

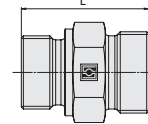
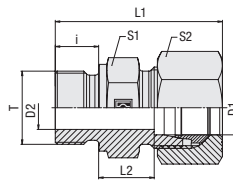
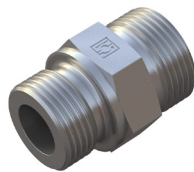
Please contact STAUFF prior to the assembly for further information.

Connecting Parts

| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |



Straight Male Stud Fitting
Type FI-GE-...-M • Series L



C

Metric Parallel Thread

Metallic Sealing Edge

Ordering Codes

***FI-GE*-10*L*M*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Light Series (page 42) **L**
Heavy Series (page 43) **S**
- * Thread Type Metric Parallel Thread **M**
- If required, please indicate special sizes, e.g. M12x1.5!
- * Material Code Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body only **—**
- Fitting body supplied with cutting ring and union nut **-MS**
- Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

-  Cutting Ring Type **FI-DS** Page 26
-  Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
-  Support Sleeve Type **FI-VH** Page 28
-  STAUFF Form Ring Type **FI-AR** Page 30
-  Union Nut Type **FI-M** Page 31
-  37° Flared Tube Fitting Set Type **FI-AB** Page 35

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-1 (Form B) / ISO 9974-3 (Type B)
Port acc. to DIN 3852-1 (Form X) / ISO 9974-1

Torque recommendations for Steel mating material.

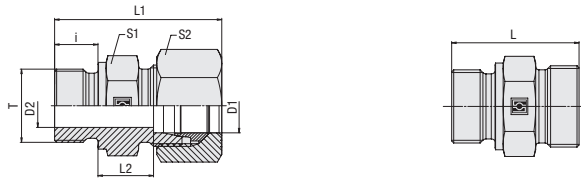
Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | Torque (Nm/ft-lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | | | | | | | |
|--------|--------------------|-----------------|-----------------------|----------------------|--|-----------------------------|-----------------|------|------|------|----------|-------|---------------------|
| L | D1 | | Thread T | D2 | i | L | L1 ¹ | L2 | S1 | S2 | Thread T | | |
| | 6 | 400 | M 10 x 1 | 4 | 8 | 23,5 | 31,5 | 8,5 | 14 | 14 | 18 | 1,38 | FI-GE-06LM-W3 |
| | .24 | 5800 | | .16 | .31 | .93 | 1.24 | .33 | .55 | .55 | 13.3 | 3.03 | |
| | 6 | 400 | M 12 x 1,5 | 4 | 12 | 29 | 37 | 10 | 17 | 14 | 30 | 2,26 | FI-GE-06LM12x1.5-W3 |
| | .24 | 5800 | | .16 | .47 | 1.14 | 1.46 | .39 | .67 | .55 | 22.2 | 4.98 | |
| | 6 | 400 | M 14 x 1,5 | 4 | 12 | 30 | 38 | 11 | 19 | 14 | 45 | 2,89 | FI-GE-06LM14x1.5-W3 |
| | .24 | 5800 | | .16 | .47 | 1.18 | 1.50 | .43 | .75 | .55 | 33.3 | 6.35 | |
| | 8 | 400 | M 10 x 1 | 4 | 8 | 23,5 | 31,5 | 8,5 | 14 | 17 | 18 | 1,53 | FI-GE-08LM10x1-W3 |
| | .31 | 5800 | | .16 | .31 | .93 | 1.24 | .33 | .55 | .67 | 13.3 | 3.37 | |
| | 8 | 400 | M 12 x 1,5 | 6 | 12 | 29 | 37 | 10 | 17 | 17 | 30 | 2,21 | FI-GE-08LM-W3 |
| | .31 | 5800 | | .24 | .47 | 1.14 | 1.46 | .39 | .67 | .67 | 22.2 | 4.86 | |
| | 8 | 400 | M 14 x 1,5 | 6 | 12 | 30 | 38 | 11 | 19 | 17 | 45 | 3,11 | FI-GE-08LM14x1.5-W3 |
| | .31 | 5800 | | .24 | .47 | 1.18 | 1.50 | .43 | .75 | .67 | 33.3 | 6.83 | |
| | 8 | 400 | M 16 x 1,5 | 6 | 12 | 30 | 38 | 11 | 22 | 17 | 65 | 4,05 | FI-GE-08LM16x1.5-W3 |
| | .31 | 5800 | | .24 | .47 | 1.18 | 1.50 | .43 | .87 | .67 | 48.1 | 8.91 | |
| | 8 | 400 | M 18 x 1,5 | 6 | 12 | 30,5 | 38,5 | 11,5 | 24 | 17 | 80 | 4,34 | FI-GE-08LM18x1.5-W3 |
| | .31 | 5800 | | .24 | .47 | 1.20 | 1.52 | .45 | .94 | .67 | 59.2 | 9.54 | |
| | 10 | 400 | M 10 x 1 | 4 | 8 | 25,5 | 33,5 | 1,5 | 17 | 19 | 18 | 2,20 | FI-GE-10LM10x1-W3 |
| | .39 | 5800 | | .16 | .31 | 1.00 | 1.32 | .41 | .67 | .75 | 13.3 | 4.84 | |
| | 10 | 400 | M 12 x 1,5 | 6 | 12 | 30 | 38 | 11 | 17 | 19 | 30 | 2,38 | FI-GE-10LM12x1.5-W3 |
| | .39 | 5800 | | .24 | .47 | 1.18 | 1.50 | .43 | .67 | .75 | 22.2 | 5.23 | |
| | 10 | 400 | M 14 x 1,5 | 7 | 12 | 30 | 38 | 11 | 19 | 19 | 45 | 2,94 | FI-GE-10LM-W3 |
| | .39 | 5800 | | .28 | .47 | 1.18 | 1.50 | .43 | .75 | .75 | 33.3 | 6.46 | |
| | 10 | 400 | M 16 x 1,5 | 8 | 12 | 31,5 | 39,5 | 12,5 | 22 | 19 | 65 | 4,05 | FI-GE-10LM16x1.5-W3 |
| | .39 | 5800 | | .31 | .47 | 1.24 | 1.56 | .49 | .87 | .75 | 48.1 | 8.91 | |
| | 10 | 400 | M 18 x 1,5 | 8 | 12 | 31,5 | 39,5 | 12,5 | 24 | 19 | 80 | 4,94 | FI-GE-10LM18x1.5-W3 |
| | .39 | 5800 | | .31 | .47 | 1.24 | 1.56 | .49 | .94 | .75 | 59.2 | 10.86 | |
| | 10 | 400 | M 22 x 1,5 | 8 | 14 | 34 | 42 | 13 | 27 | 19 | 140 | 7,36 | FI-GE-10LM22x1.5-W3 |
| | .39 | 5800 | | .31 | .55 | 1.34 | 1.65 | .51 | 1.06 | .75 | 103.6 | 16.19 | |
| | 12 | 400 | M 12 x 1,5 | 6 | 12 | 30 | 38 | 11 | 19 | 22 | 30 | 2,84 | FI-GE-12LM12x1.5-W3 |
| | .47 | 5800 | | .24 | .47 | 1.18 | 1.50 | .43 | .75 | .87 | 22.2 | 6.25 | |
| | 12 | 400 | M 14 x 1,5 | 7 | 12 | 30 | 38 | 11 | 19 | 22 | 45 | 3,06 | FI-GE-12LM14x1.5-W3 |
| | .47 | 5800 | | .28 | .47 | 1.18 | 1.50 | .43 | .75 | .87 | 33.3 | 6.72 | |
| | 12 | 400 | M 16 x 1,5 | 9 | 12 | 31,5 | 39,5 | 12,5 | 22 | 22 | 65 | 3,92 | FI-GE-12LM-W3 |
| | .47 | 5800 | | .35 | .47 | 1.24 | 1.56 | .49 | .87 | .87 | 48.1 | 8.63 | |
| | 12 | 400 | M 18 x 1,5 | 10 | 12 | 31,5 | 39,5 | 12,5 | 24 | 22 | 80 | 4,90 | FI-GE-12LM18x1.5-W3 |
| | .47 | 5800 | | .39 | .47 | 1.24 | 1.56 | .49 | .94 | .87 | 59.2 | 10.78 | |
| | 12 | 400 | M 22 x 1,5 | 10 | 14 | 35 | 43 | 14 | 27 | 22 | 140 | 6,96 | FI-GE-12LM22x1.5-W3 |
| | .47 | 5800 | | .39 | .55 | 1.38 | 1.69 | .55 | 1.06 | .87 | 103.6 | 15.31 | |
| | 15 | 400 | M 16 x 1,5 | 9 | 12 | 32 | 40 | 13 | 24 | 27 | 65 | 5,15 | FI-GE-15LM16x1.5-W3 |
| | .59 | 5800 | | .35 | .47 | 1.26 | 1.57 | .51 | .94 | 1.06 | 48.1 | 11.33 | |
| | 15 | 400 | M 18 x 1,5 | 11 | 12 | 32,5 | 4,5 | 13,5 | 24 | 27 | 80 | 5,28 | FI-GE-15LM-W3 |
| | .59 | 5800 | | .43 | .47 | 1.28 | 1.59 | .53 | .94 | 1.06 | 59.2 | 11.61 | |
| | 15 | 400 | M 22 x 1,5 | 12 | 14 | 35 | 43 | 14 | 27 | 27 | 140 | 7,15 | FI-GE-15LM22x1.5-W3 |
| | .59 | 5800 | | .47 | .55 | 1.38 | 1.69 | .55 | 1.06 | 1.06 | 103.6 | 15.73 | |
| | 18 | 400 | M 18 x 1,5 | 11 | 12 | 33,5 | 42,5 | 14 | 27 | 32 | 80 | 6,26 | FI-GE-18LM18x1.5-W3 |
| | .71 | 5800 | | .43 | .47 | 1.32 | 1.67 | .55 | 1.06 | 1.26 | 59.2 | 13.77 | |
| | 18 | 400 | M 22 x 1,5 | 14 | 14 | 36 | 45 | 14,5 | 27 | 32 | 140 | 7,60 | FI-GE-18LM-W3 |
| | .71 | 5800 | | .55 | .55 | 1.42 | 1.77 | .57 | 1.06 | 1.26 | 103.6 | 16.72 | |
| | 18 | 250 | M 26 x 1,5 | 15 | 16 | 38 | 47 | 14,5 | 32 | 32 | 190 | 10,88 | FI-GE-18LM26x1.5-W3 |
| | .71 | 3625 | | .59 | .63 | 1.50 | 1.85 | .57 | 1.26 | 1.26 | 140.6 | 23.94 | |
| | 22 | 250 | M 22 x 1,5 | 14 | 14 | 38 | 47 | 16,5 | 32 | 36 | 140 | 9,10 | FI-GE-22LM22x1.5-W3 |
| | .87 | 3625 | | .55 | .55 | 1.50 | 1.85 | .65 | 1.26 | 1.42 | 103.6 | 20.02 | |
| | 22 | 250 | M 26 x 1,5 | 18 | 16 | 40 | 49 | 16,5 | 32 | 36 | 190 | 10,34 | FI-GE-22LM-W3 |
| | .87 | 3625 | | .71 | .63 | 1.57 | 1.93 | .65 | 1.26 | 1.42 | 140.6 | 22.74 | |
| | 28 | 250 | M 33 x 2 | 23 | 18 | 43 | 52 | 17,5 | 41 | 41 | 340 | 17,13 | FI-GE-28LM-W3 |
| | 1.10 | 3625 | | .91 | .71 | 1.69 | 2.05 | .69 | 1.61 | 1.61 | 251.6 | 37.69 | |
| | 35 | 250 | M 42 x 2 | 30 | 20 | 48 | 59 | 17,5 | 50 | 50 | 500 | 27,85 | FI-GE-35LM-W3 |
| | 1.38 | 3625 | | 1.18 | .79 | 1.89 | 2.32 | .69 | 1.97 | 1.97 | 370.0 | 61.27 | |
| | 42 | 250 | M 48 x 2 | 36 | 22 | 52 | 64 | 19 | 55 | 60 | 630 | 35,91 | FI-GE-42LM-W3 |
| | 1,65 | 3625 | | 1.42 | .87 | 2.05 | 2.52 | .75 | 2.17 | 2.36 | 466.2 | 79.00 | |



Straight Male Stud Fitting
Type FI-GE-...-M ▪ Series S



C

Metallic Sealing Edge

Metric Parallel Thread

| Series | Tube OD | | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | | | Torque (N·m/ft·lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|---------|------|-----------------|-----------------------|------|------|------|------|-----------------|------|------|-------|---------------------|-----------------------|--|-----------------------------|
| | D1 | D2 | | Thread | T | D2 | i | L | L1 ¹ | L2 | S1 | S2 | Thread | | | |
| S | 6 | 630 | 9135 | M 12 x 1,5 | 4 | 12 | 32 | 40 | 13 | 17 | 17 | 35 | 2,99 | FI-GE-06SM-W3 | | |
| | .24 | .47 | | | .16 | .47 | 1.26 | 1.57 | .51 | .67 | .67 | 25.9 | 6.58 | | | |
| 8 | 630 | 9135 | M 14 x 1,5 | 5 | 12 | 34 | 42 | 15 | 19 | 19 | 55 | 4,26 | FI-GE-08SM-W3 | | | |
| | .31 | | | .47 | .20 | .47 | 1.34 | 1.65 | .59 | .75 | .75 | 40.7 | | 9.37 | | |
| 10 | 630 | 9135 | M 16 x 1,5 | 7 | 12 | 34,5 | 43,5 | 15 | 22 | 22 | 70 | 5,46 | FI-GE-10SM-W3 | | | |
| | .39 | | | .47 | .28 | .47 | 1.36 | 1.71 | .59 | .87 | .87 | 51.8 | | 12.01 | | |
| 10 | 630 | 9135 | M 18 x 1,5 | 7 | 12 | 36,5 | 45,5 | 17 | 24 | 22 | 110 | 7,66 | FI-GE-10SM18x1.5-W3 | | | |
| | .39 | | | .47 | .28 | .47 | 1.44 | 1.79 | .67 | .94 | .87 | 81.4 | | 16.85 | | |
| 12 | 630 | 9135 | M 14 x 1,5 | 5 | 12 | 36 | 45 | 17 | 22 | 24 | 55 | 6,00 | FI-GE-12SM14x1.5-W3 | | | |
| | .47 | | | .47 | .20 | .47 | 1.42 | 1.77 | .67 | .87 | .94 | 40.7 | | 13.20 | | |
| 12 | 630 | 9135 | M 16 x 1,5 | 7 | 12 | 24,5 | 48 | 17 | 22 | 24 | 70 | 6,12 | FI-GE-12SM16x1.5-W3 | | | |
| | .47 | | | .47 | .28 | .47 | .96 | 1.89 | .67 | .87 | .94 | 51.8 | | 13.47 | | |
| 12 | 630 | 9135 | M 18 x 1,5 | 8 | 12 | 36,5 | 45,5 | 17 | 24 | 24 | 110 | 7,19 | FI-GE-12SM-W3 | | | |
| | .47 | | | .47 | .31 | .47 | 1.44 | 1.79 | .67 | .94 | .94 | 81.4 | | 15.83 | | |
| 12 | 630 | 9135 | M 22 x 1,5 | 8 | 14 | 39 | 48 | 17,5 | 27 | 24 | 170 | 9,28 | FI-GE-12SM22x1.5-W3 | | | |
| | .47 | | | .47 | .31 | .55 | 1.54 | 1.89 | .69 | 1.06 | .94 | 125.8 | | 20.42 | | |
| 14 | 630 | 9135 | M 20 x 1,5 | 10 | 14 | 41 | 51 | 19 | 27 | 27 | 150 | 9,49 | FI-GE-14SM-W3 | | | |
| | .55 | | | .47 | .39 | .55 | 1.61 | 2.01 | .75 | 1.06 | 1.06 | 111.0 | | 20.88 | | |
| 16 | 630 | 9135 | M 18 x 1,5 | 8 | 12 | 38,5 | 48,5 | 18 | 27 | 30 | 110 | 7,82 | FI-GE-16SM18x1.5-W3 | | | |
| | .63 | | | .47 | .31 | .47 | 1.52 | 1.91 | .71 | 1.06 | 1.18 | 81.4 | | 17.20 | | |
| 16 | 630 | 9135 | M 22 x 1,5 | 12 | 14 | 41 | 51 | 18,5 | 27 | 30 | 170 | 9,75 | FI-GE-16SM-W3 | | | |
| | .63 | | | .47 | .47 | .55 | 1.61 | 2.01 | .73 | 1.06 | 1.18 | 125.8 | | 21.44 | | |
| 20 | 400 | 5800 | M 22 x 1,5 | 12 | 14 | 47 | 58 | 22,5 | 32 | 36 | 170 | 13,95 | FI-GE-20SM22x1.5-W3 | | | |
| | .79 | | | .47 | .47 | .55 | 1.85 | 2.28 | .89 | 1.26 | 1.42 | 125.8 | | 30.69 | | |
| 20 | 400 | 5800 | M 27 x 2 | 16 | 16 | 47 | 58 | 20,5 | 32 | 36 | 270 | 15,12 | FI-GE-20SM-W3 | | | |
| | .79 | | | .63 | .63 | .63 | 1.85 | 2.28 | .81 | 1.26 | 1.42 | 199.8 | | 33.22 | | |
| 25 | 400 | 5800 | M 33 x 2 | 20 | 18 | 53 | 65 | 23 | 41 | 46 | 410 | 26,71 | FI-GE-25SM-W3 | | | |
| | .98 | | | .71 | .79 | .71 | 2.09 | 2.56 | .91 | 1.61 | 1.81 | 303.4 | | 58.77 | | |
| 30 | 250 | 3625 | M 42 x 2 | 25 | 20 | 57 | 70 | 23,5 | 50 | 50 | 540 | 42,96 | FI-GE-30SM-W3 | | | |
| | 1.18 | | | .79 | .98 | .79 | 2.24 | 2.76 | .93 | 1.97 | 1.97 | 399.6 | | 94.51 | | |
| 38 | 250 | 3625 | M 48 x 2 | 32 | 22 | 64 | 79 | 26 | 55 | 60 | 700 | 56,40 | FI-GE-38SM-W3 | | | |
| | 1.50 | | | .87 | 1.26 | .87 | 2.52 | 3.11 | 1.02 | 2.17 | 2.36 | 518.0 | | 124.08 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-1 (Form B) / ISO 9974-3 (Type B)
Port acc. to DIN 3852-1 (Form X) / ISO 9974-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes

FI-GE-10*L*M*-W3*-MS

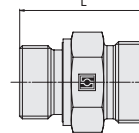
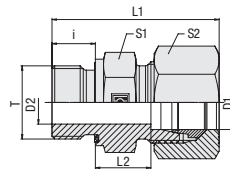
| | |
|---|---|
| * Straight Male Stud Fitting | FI-GE |
| * Outside Tube Diameter D1 (in mm) | -10 |
| * Series | Light Series (page 42) L Heavy Series (page 43) S |
| * Thread Type | Metric Parallel Thread M |
| If required, please indicate special sizes, e.g. M12x1.5! | |
| * Material Code | Steel, zinc/nickel-plated -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | |
| * Assembling / Kitting | Fitting body only — |
| | Fitting body supplied with cutting ring and union nut -MS |
| | Fitting body supplied with soft-sealing cutting ring and union nut -MSV |

Connecting Parts

| | | |
|--|---|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |



Straight Male Stud Fitting
Type FI-GE-...-R-WD ■ Series L



C

Whitworth Parallel Pipe Thread (BSPP)

Profile Sealing Ring

Ordering Codes

***FI-GE*-10*L*R*-WD*-B*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
Light Series (pages 44/45)
S
Heavy Series (pages 46/47)
- * Thread Type **R**
Whitworth Parallel
Pipe Thread (BSPP)
- If required, please indicate special sizes, e.g. R1/8!
- * Seal Type **-WD**
Profile Sealing Ring
- * Seal Material **-B**
NBR (Buna-N®)
-V
FKM (Viton®)
-E
EPDM
- * Material Code **-W3**
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
Fitting body only
- Fitting body supplied with cutting ring and union nut **-MS**
- Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

Spare Parts / Accessories

- Profile Sealing Ring
Type **WDG** Page 206

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | Torque (N·m/lb·ft) | Weight (kg/lbs) ca. | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|--------|------|------|------|------|-----------------|-------|-------|-----------------------|-----------------------|------------------------|-----------------------------|
| | | | D1 | Thread | T | D2 | i | L | L1 ¹ | L2 | S1 | S2 | | | |
| L | 6 | 500 | G 1/8 | 4 | 8 | 23,5 | 31,5 | 8,5 | 14 | 14 | 18 | 1,33 | FI-GE-06LR-WD-B-W3 | | |
| | .24 | 7250 | | .16 | .31 | .93 | 1.24 | .33 | .55 | .55 | 13.3 | 2.93 | | | |
| | 6 | 500 | G 1/4 | 4 | 12 | 29 | 37 | 10 | 19 | 14 | 35 | 2,74 | FI-GE-06LR1/4-WD-B-W3 | | |
| | .24 | 7250 | | .16 | .47 | 1.14 | 1.46 | .39 | .75 | .55 | 25.9 | 6.04 | | | |
| | 6 | 400 | G 3/8 | 4 | 12 | 30,5 | 38,5 | 11,5 | 22 | 14 | 70 | 4,03 | FI-GE-06LR3/8-WD-B-W3 | | |
| | .24 | 5800 | | .16 | .47 | 1.20 | 1.52 | .45 | .87 | .55 | 51.8 | 8.87 | | | |
| | 6 | 400 | G 1/2 | 4 | 14 | 33 | 41 | 12 | 27 | 14 | 90 | 6,37 | FI-GE-06LR1/2-WD-B-W3 | | |
| | .24 | 5800 | | .16 | .55 | 1.30 | 1.61 | .47 | 1.06 | .55 | 66.6 | 14.01 | | | |
| | 8 | 500 | G 1/8 | 4 | 8 | 24,5 | 32,5 | 9,5 | 14 | 17 | 18 | 1,61 | FI-GE-08LR1/8-WD-B-W3 | | |
| | .31 | 7250 | | .16 | .31 | .96 | 1.28 | .37 | .55 | .67 | 13.3 | 3.53 | | | |
| | 8 | 500 | G 1/4 | 6 | 12 | 29 | 37 | 10 | 19 | 17 | 35 | 2,65 | FI-GE-08LR-WD-B-W3 | | |
| | .31 | 7250 | | .24 | .47 | 1.14 | 1.46 | .39 | .75 | .67 | 25.9 | 5.83 | | | |
| | 8 | 400 | G 3/8 | 6 | 12 | 30,5 | 38,5 | 11,5 | 22 | 17 | 70 | 4,35 | FI-GE-08LR3/8-WD-B-W3 | | |
| | .31 | 5800 | | .24 | .47 | 1.20 | 1.52 | .45 | .87 | .67 | 51.8 | 9.57 | | | |
| | 8 | 400 | G 1/2 | 6 | 14 | 33 | 41 | 12 | 27 | 17 | 90 | 6,58 | FI-GE-08LR1/2-WD-B-W3 | | |
| | .31 | 5800 | | .24 | .55 | 1.30 | 1.61 | .47 | 1.06 | .67 | 66.6 | 14.48 | | | |
| | 10 | 500 | G 1/8 | 4 | 8 | 25,5 | 33,5 | 10,5 | 17 | 19 | 18 | 2,05 | FI-GE-10LR1/8-WD-B-W3 | | |
| | .39 | 7250 | | .16 | .31 | 1.00 | 1.32 | .41 | .67 | .75 | 13.3 | 4.52 | | | |
| | 10 | 500 | G 1/4 | 6 | 12 | 30 | 38 | 11 | 19 | 19 | 35 | 2,88 | FI-GE-10LR-WD-B-W3 | | |
| | .39 | 7250 | | .24 | .47 | 1.18 | 1.50 | .43 | .75 | .75 | 25.9 | 6.34 | | | |
| | 10 | 400 | G 3/8 | 8 | 12 | 31,5 | 39,5 | 12,5 | 22 | 19 | 70 | 4,15 | FI-GE-10LR3/8-WD-B-W3 | | |
| | .39 | 5800 | | .31 | .47 | 1.24 | 1.56 | .49 | .87 | .75 | 51.8 | 9.12 | | | |
| | 10 | 400 | G 1/2 | 8 | 14 | 34 | 42 | 13 | 27 | 19 | 90 | 7,10 | FI-GE-10LR1/2-WD-B-W3 | | |
| | .39 | 5800 | | .31 | .55 | 1.34 | 1.65 | .51 | 1.06 | .75 | 66.6 | 15.61 | | | |
| | 12 | 400 | G 1/8 | 4 | 8 | 26,5 | 34,5 | 11,5 | 19 | 22 | 18 | 2,55 | FI-GE-12LR1/8-WD-B-W3 | | |
| | .47 | 5800 | | .16 | .31 | 1.04 | 1.36 | .45 | .75 | .87 | 13.3 | 5.61 | | | |
| | 12 | 400 | G 1/4 | 6 | 12 | 31 | 39 | 12 | 19 | 22 | 35 | 3,05 | FI-GE-12LR1/4-WD-B-W3 | | |
| | .47 | 5800 | | .24 | .47 | 1.22 | 1.54 | .47 | .75 | .87 | 25.9 | 6.70 | | | |
| 12 | 400 | G 3/8 | 9 | 12 | 31,5 | 39,5 | 12,5 | 22 | 22 | 70 | 4,14 | FI-GE-12LR-WD-B-W3 | | | |
| .47 | 5800 | | .35 | .47 | 1.24 | 1.56 | .49 | .87 | .87 | 51.8 | 9.10 | | | | |
| 12 | 400 | G 1/2 | 10 | 14 | 34 | 42 | 13 | 27 | 22 | 90 | 6,65 | FI-GE-12LR1/2-WD-B-W3 | | | |
| .47 | 5800 | | .39 | .55 | 1.34 | 1.65 | .51 | 1.06 | .87 | 66.6 | 14.63 | | | | |
| 12 | 250 | G 3/4 | 10 | 16 | 37 | 45 | 14 | 32 | 22 | 180 | 9,25 | FI-GE-12LR3/4-WD-B-W3 | | | |
| .47 | 3625 | | .39 | .63 | 1.46 | 1.77 | .55 | 1.26 | .87 | 133.2 | 20.34 | | | | |
| 15 | 400 | G 1/4 | 7 | 12 | 31,5 | 39,5 | 12,5 | 22 | 27 | 35 | 4,07 | FI-GE-15LR1/4-WD-B-W3 | | | |
| .59 | 5800 | | .28 | .47 | 1.24 | 1.56 | .49 | .87 | 1.06 | 25.9 | 8.95 | | | | |
| 15 | 400 | G 3/8 | 9 | 12 | 32,5 | 40,5 | 13,5 | 24 | 27 | 70 | 5,32 | FI-GE-15LR3/8-WD-B-W3 | | | |
| .59 | 5800 | | .35 | .47 | 1.28 | 1.59 | .53 | .94 | 1.06 | 51.8 | 11.70 | | | | |
| 15 | 400 | G 1/2 | 12 | 14 | 35 | 43 | 14 | 27 | 27 | 90 | 6,62 | FI-GE-15LR-WD-B-W3 | | | |
| .59 | 5800 | | .47 | .55 | 1.38 | 1.69 | .55 | 1.06 | 1.06 | 66.6 | 14.56 | | | | |
| 15 | 250 | G 3/4 | 12 | 16 | 38 | 46 | 15 | 32 | 27 | 180 | 11,80 | FI-GE-15LR3/4-WD-B-W3 | | | |
| .59 | 3625 | | .47 | .63 | 1.50 | 1.81 | .59 | 1.26 | 1.06 | 133.2 | 25.96 | | | | |
| 18 | 400 | G 3/8 | 9 | 12 | 33,5 | 42,5 | 14 | 27 | 32 | 70 | 6,56 | FI-GE-18LR3/8-WD-B-W3 | | | |
| .71 | 5800 | | .35 | .47 | 1.32 | 1.67 | .55 | 1.06 | 1.26 | 51.8 | 14.44 | | | | |
| 18 | 400 | G 1/2 | 14 | 14 | 36 | 45 | 14,5 | 27 | 32 | 90 | 7,01 | FI-GE-18LR-WD-B-W3 | | | |
| .71 | 5800 | | .55 | .55 | 1.42 | 1.77 | .57 | 1.06 | 1.26 | 66.6 | 15.41 | | | | |
| 18 | 250 | G 3/4 | 15 | 16 | 38 | 47 | 14,5 | 32 | 32 | 180 | 10,89 | FI-GE-18LR3/4-WD-B-W3 | | | |
| .71 | 3625 | | .59 | .63 | 1.50 | 1.85 | .57 | 1.26 | 1.26 | 133.2 | 23.96 | | | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to ISO 1179-2 (Type E)

Port acc. to ISO 1179-1

Torque recommendations for Steel mating material.

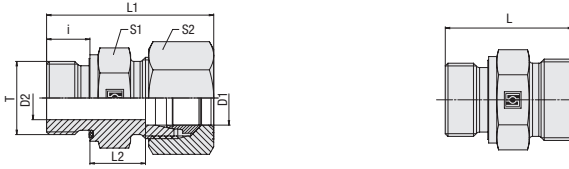
Standard seal material is NBR (Buna-N®).

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.



Straight Male Stud Fitting
Type FI-GE-...-R-WD • Series L



C

Profile Sealing Ring

Whitworth Parallel Pipe Thread (BSPP)

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | | | Torque (N•m/ft•lb) | Weight (kg/lbs) Ca. | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|------|------|------|-----------------|------|-------|-------|-------------------------|-------------------------|------------------------|-----------------------------|
| | | | Thread | T | D2 | i | L | L1 ¹ | L2 | S1 | S2 | Thread T | | | |
| L | 22 | 250 | G 1/2 | 14 | 14 | 38 | 47 | 16,5 | 32 | 36 | 90 | 8,75 | FI-GE-22LR1/2-WD-B-W3 | | |
| | .87 | 3625 | | .55 | .55 | 1.50 | 1.85 | .65 | 1.26 | 1.42 | 66.6 | 19.25 | | | |
| | 22 | 250 | G 3/4 | 18 | 16 | 40 | 49 | 16,5 | 32 | 36 | 180 | 10,28 | FI-GE-22LR-WD-B-W3 | | |
| | .87 | 3625 | | .71 | .63 | 1.57 | 1.93 | .65 | 1.26 | 1.42 | 133.2 | 22.61 | | | |
| | 22 | 250 | G 1 | 19 | 18 | 43 | 52 | 17,5 | 41 | 36 | 310 | 18,57 | FI-GE-22LR1-WD-B-W3 | | |
| | .87 | 3625 | | .75 | .71 | 1.69 | 2.05 | .69 | 1.61 | 1.42 | 229.4 | 40.85 | | | |
| | 28 | 250 | G 3/4 | 18 | 16 | 41 | 50 | 17,5 | 41 | 41 | 180 | 14,97 | FI-GE-28LR3/4-WD-B-W3 | | |
| | 1.10 | 3625 | | .71 | .63 | 1.61 | 1.97 | .69 | 1.61 | 1.61 | 133.2 | 32.93 | | | |
| | 28 | 250 | G 1 | 24 | 18 | 43 | 52 | 17,5 | 41 | 41 | 310 | 15,83 | FI-GE-28LR-WD-B-W3 | | |
| | 1.10 | 3625 | | .94 | .71 | 1.69 | 2.05 | .69 | 1.61 | 1.61 | 229.4 | 34.82 | | | |
| | 28 | 250 | G 1 1/4 | 24 | 20 | 45 | 54 | 17,5 | 50 | 41 | 450 | 13,40 | FI-GE-28LR1-1/4-WD-B-W3 | | |
| | 1.10 | 3625 | | .94 | .79 | 1.77 | 2.13 | .69 | 1.97 | 1.61 | 333.0 | 29.48 | | | |
| | 35 | 250 | G 3/4 | 18 | 16 | 44 | 55 | 17 | 46 | 50 | 180 | 20,71 | FI-GE-35LR3/4-WD-B-W3 | | |
| | 1.38 | 3625 | | .71 | .63 | 1.73 | 2.17 | .67 | 1.81 | 1.97 | 133.2 | 45.56 | | | |
| | 35 | 250 | G 1 | 23 | 18 | 46 | 57 | 17,5 | 46 | 50 | 310 | 22,15 | FI-GE-35LR1-WD-B-W3 | | |
| | 1.38 | 3625 | | .91 | .71 | 1.81 | 2.24 | .69 | 1.81 | 1.97 | 229.4 | 48.74 | | | |
| | 35 | 250 | G 1 1/4 | 30 | 20 | 48 | 59 | 17,5 | 50 | 50 | 450 | 27,23 | FI-GE-35LR-WD-B-W3 | | |
| | 1.38 | 3625 | | 1.18 | .79 | 1.89 | 2.32 | .69 | 1.97 | 1.97 | 333.0 | 59.90 | | | |
| | 35 | 250 | G 1 1/2 | 30 | 22 | 52 | 63 | 19,5 | 55 | 50 | 540 | 42,18 | FI-GE-35LR1-1/2-WD-B-W3 | | |
| | 1.38 | 3625 | | 1.18 | .87 | 2.05 | 2.48 | .77 | 2.17 | 1.97 | 399.6 | 92.80 | | | |
| 42 | 250 | G 1 | 23 | 18 | 48 | 60 | 19 | 55 | 60 | 310 | 31,72 | FI-GE-42LR1-WD-B-W3 | | | |
| 1.65 | 3625 | | .91 | .71 | 1.89 | 2.36 | .75 | 2.17 | 2.36 | 229.4 | 69.78 | | | | |
| 42 | 250 | G 1 1/4 | 30 | 20 | 50 | 62 | 19 | 55 | 60 | 450 | 34,03 | FI-GE-42LR1-1/4-WD-B-W3 | | | |
| 1.65 | 3625 | | 1.18 | .79 | 1.97 | 2.44 | .75 | 2.17 | 2.36 | 333.0 | 74.87 | | | | |
| 42 | 250 | G 1 1/2 | 36 | 22 | 52 | 64 | 19 | 55 | 60 | 540 | 34,37 | FI-GE-42LR-WD-B-W3 | | | |
| 1.65 | 3625 | | 1.42 | .87 | 2.05 | 2.52 | .75 | 2.17 | 2.36 | 399.6 | 75.62 | | | | |

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.

Male stud acc. to ISO 1179-2 (Type E)
 Port acc. to ISO 1179-1

Torque recommendations for Steel mating material.

Standard seal material is NBR (Buna-N®).

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended. Please contact STAUFF prior to the assembly for further information.

Ordering Codes

***FI-GE*-10*L*R*-WD*-B*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Light Series (pages 44/45) **L**
Heavy Series (pages 46/47) **S**
- * Thread Type Whitworth Parallel Pipe Thread (BSPP) **R**
- If required, please indicate special sizes, e.g. R1/8!
- * Seal Type Profile Sealing Ring **-WD**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body only **—**
Fitting body supplied with cutting ring and union nut **-MS**
Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

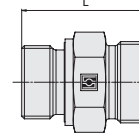
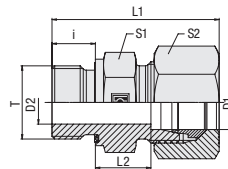
- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

Spare Parts / Accessories

- Profile Sealing Ring Type **WDG** Page 206



Straight Male Stud Fitting
Type FI-GE-...-R-WD ■ Series S



C

Ordering Codes

***FI-GE*-10*L*R*-WD*-B*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Light Series (pages 44/45) **L**
Heavy Series (pages 46/47) **S**
- * Thread Type Whitworth Parallel Pipe Thread (BSPP) **R**
- If required, please indicate special sizes, e.g. R1/8!
- * Seal Type Profile Sealing Ring **-WD**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body only **—**
Fitting body supplied with cutting ring and union nut **-MS**
Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

-  Cutting Ring Type **FI-DS** Page 26
-  Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
-  Support Sleeve Type **FI-VH** Page 28
-  STAUFF Form Ring Type **FI-AR** Page 30
-  Union Nut Type **FI-M** Page 31
-  37° Flared Tube Fitting Set Type **FI-AB** Page 35

Spare Parts / Accessories

-  Profile Sealing Ring Type **WDG** Page 206

Whitworth Parallel Pipe Thread (BSPP)

Profile Sealing Ring

| Series | Tube OD | | PN | Dimensions | | | | | | | | Torque (N·m/ft·lb) | Weight (kg/lbs) ca. | Ordering Codes ³ |
|--------|---------|---------|-----|------------|-----|-----|------|------|-----------------|------|------|-----------------------|------------------------|-----------------------------|
| | (mm/in) | (mm/in) | | Thread | T | D2 | i | L | L1 ¹ | L2 | S1 | | | |
| S | 6 | 800 | 800 | G 1/8 | 4 | 8 | 27,5 | 35,5 | 12,5 | 14 | 17 | 25 | 2,49 | FI-GE-06SR1/8-WD-B-W3 |
| | .24 | 11600 | | | .16 | .31 | 1.08 | 1.40 | .49 | .55 | .67 | 18.5 | 5.48 | |
| 6 | 6 | 800 | 800 | G 1/4 | 4 | 12 | 32 | 40 | 13 | 19 | 17 | 55 | 3,46 | FI-GE-06SR-WD-B-W3 |
| | .24 | 11600 | | | .16 | .47 | 1.26 | 1.57 | .51 | .75 | .67 | 40.7 | 7.61 | |
| 6 | 6 | 800 | 800 | G 3/8 | 4 | 12 | 34,5 | 42,5 | 15,5 | 22 | 17 | 80 | 5,63 | FI-GE-06SR3/8-WD-B-W3 |
| | .24 | 11600 | | | .16 | .47 | 1.36 | 1.67 | .61 | .87 | .67 | 59.2 | 12.38 | |
| 6 | 6 | 800 | 800 | G 1/2 | 4 | 14 | 39 | 47 | 18 | 27 | 17 | 115 | 8,22 | FI-GE-06SR1/2-WD-B-W3 |
| | .24 | 11600 | | | .16 | .55 | 1.54 | 1.85 | .71 | 1.06 | .67 | 85.1 | 18.09 | |
| 8 | 8 | 800 | 800 | G 1/8 | 4 | 8 | 29,5 | 37,5 | 14,5 | 19 | 19 | 25 | 3,41 | FI-GE-08SR1/8-WD-B-W3 |
| | .31 | 11600 | | | .16 | .31 | 1.16 | 1.48 | .57 | .75 | .75 | 18.5 | 7.49 | |
| 8 | 8 | 800 | 800 | G 1/4 | 5 | 12 | 34 | 42 | 15 | 19 | 19 | 55 | 4,00 | FI-GE-08SR-WD-B-W3 |
| | .31 | 11600 | | | .20 | .47 | 1.34 | 1.65 | .59 | .75 | .75 | 40.7 | 8.80 | |
| 8 | 8 | 800 | 800 | G 3/8 | 5 | 12 | 34,5 | 42,5 | 15,5 | 22 | 19 | 80 | 5,72 | FI-GE-08SR3/8-WD-B-W3 |
| | .31 | 11600 | | | .20 | .47 | 1.36 | 1.67 | .61 | .87 | .75 | 59.2 | 12.58 | |
| 8 | 8 | 800 | 800 | G 1/2 | 5 | 14 | 39 | 47 | 18 | 27 | 19 | 115 | 9,92 | FI-GE-08SR1/2-WD-B-W3 |
| | .31 | 11600 | | | .20 | .55 | 1.54 | 1.85 | .71 | 1.06 | .75 | 85.1 | 21.82 | |
| 10 | 10 | 800 | 800 | G 1/4 | 5 | 12 | 34 | 43 | 14,5 | 19 | 22 | 55 | 4,22 | FI-GE-10SR1/4-WD-B-W3 |
| | .39 | 11600 | | | .20 | .47 | 1.34 | 1.69 | .57 | .75 | .87 | 40.7 | 9.28 | |
| 10 | 10 | 800 | 800 | G 3/8 | 7 | 12 | 34,5 | 43,5 | 15 | 22 | 22 | 80 | 5,60 | FI-GE-10SR-WD-B-W3 |
| | .39 | 11600 | | | .28 | .47 | 1.36 | 1.71 | .59 | .87 | .87 | 59.2 | 12.31 | |
| 10 | 10 | 800 | 800 | G 1/2 | 7 | 14 | 39 | 47 | 17,5 | 27 | 22 | 115 | 9,57 | FI-GE-10SR1/2-WD-B-W3 |
| | .39 | 11600 | | | .28 | .55 | 1.54 | 1.85 | .69 | 1.06 | .87 | 85.1 | 21.06 | |
| 12 | 12 | 630 | 630 | G 1/4 | 5 | 12 | 36 | 44 | 16,5 | 22 | 24 | 55 | 5,60 | FI-GE-12SR1/4-WD-B-W3 |
| | .47 | 9135 | | | .20 | .47 | 1.42 | 1.73 | .65 | .87 | .94 | 40.7 | 12.32 | |
| 12 | 12 | 630 | 630 | G 3/8 | 8 | 12 | 36,5 | 45 | 17 | 22 | 24 | 80 | 6,25 | FI-GE-12SR-WD-B-W3 |
| | .47 | 9135 | | | .31 | .47 | 1.44 | 1.77 | .67 | .87 | .94 | 59.2 | 13.75 | |
| 12 | 12 | 630 | 630 | G 1/2 | 8 | 14 | 39 | 48 | 17,5 | 27 | 24 | 115 | 9,52 | FI-GE-12SR1/2-WD-B-W3 |
| | .47 | 9135 | | | .31 | .55 | 1.54 | 1.89 | .69 | 1.06 | .94 | 85.1 | 20.95 | |
| 12 | 12 | 630 | 630 | G 3/4 | 8 | 16 | 41 | 50 | 17,5 | 32 | 24 | 180 | 12,83 | FI-GE-12SR3/4-WD-B-W3 |
| | .47 | 9135 | | | .31 | .63 | 1.61 | 1.97 | .69 | 1.26 | .94 | 133.2 | 28.22 | |
| 14 | 14 | 630 | 630 | G 3/8 | 8 | 12 | 38,5 | 48,5 | 18,5 | 24 | 27 | 80 | 5,03 | FI-GE-14SR3/8-WD-B-W3 |
| | .55 | 9135 | | | .31 | .47 | 1.52 | 1.91 | .73 | .94 | 1.06 | 59.2 | 11.07 | |
| 14 | 14 | 630 | 630 | G 1/2 | 10 | 14 | 41 | 51 | 19 | 27 | 27 | 115 | 9,67 | FI-GE-14SR-WD-B-W3 |
| | .55 | 9135 | | | .39 | .55 | 1.61 | 2.01 | .75 | 1.06 | 1.06 | 85.1 | 21.27 | |
| 14 | 14 | 630 | 630 | G 3/4 | 10 | 16 | 45 | 55 | 21 | 32 | 27 | 180 | 14,90 | FI-GE-14SR3/4-WD-B-W3 |
| | .55 | 9135 | | | .39 | .63 | 1.77 | 2.17 | .83 | 1.26 | 1.06 | 133.2 | 32.78 | |
| 16 | 16 | 630 | 630 | G 1/4 | 7 | 12 | 38 | 48 | 17,5 | 27 | 30 | 55 | 8,12 | FI-GE-16SR1/4-WD-B-W3 |
| | .63 | 9135 | | | .28 | .47 | 1.50 | 1.89 | .69 | 1.06 | 1.18 | 40.7 | 17.86 | |
| 16 | 16 | 630 | 630 | G 3/8 | 8 | 12 | 38,5 | 48,5 | 18 | 27 | 30 | 80 | 7,53 | FI-GE-16SR3/8-WD-B-W3 |
| | .63 | 9135 | | | .31 | .47 | 1.52 | 1.91 | .71 | 1.06 | 1.18 | 59.2 | 16.57 | |
| 16 | 16 | 630 | 630 | G 1/2 | 12 | 14 | 41 | 51 | 18,5 | 27 | 30 | 115 | 9,08 | FI-GE-16SR-WD-B-W3 |
| | .63 | 9135 | | | .47 | .55 | 1.61 | 2.01 | .73 | 1.06 | 1.18 | 85.1 | 19.98 | |
| 16 | 16 | 630 | 630 | G 3/4 | 12 | 16 | 45 | 55 | 20,5 | 32 | 30 | 180 | 15,51 | FI-GE-16SR3/4-WD-B-W3 |
| | .63 | 9135 | | | .47 | .63 | 1.77 | 2.17 | .81 | 1.26 | 1.18 | 133.2 | 34.13 | |
| 16 | 16 | 400 | 400 | G 1 | 12 | 18 | 49 | 59 | 22,5 | 41 | 30 | 310 | 25,20 | FI-GE-16SR1-WD-B-W3 |
| | .63 | 5800 | | | .47 | .71 | 1.93 | 2.32 | .89 | 1.61 | 1.18 | 229.4 | 55.43 | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to ISO 1179-2 (Type E)

Port acc. to ISO 1179-1

Torque recommendations for Steel mating material.

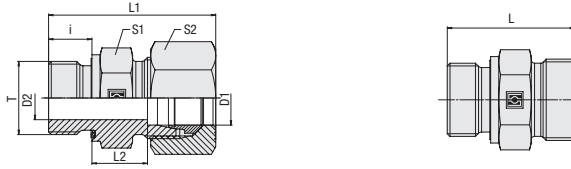
Standard seal material is NBR (Buna-N®).

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.



**Straight Male Stud Fitting
Type FI-GE-...-R-WD ▪ Series S**



C

Profile Sealing Ring

Whitworth Parallel Pipe Thread (BSPP)

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | | | Torque (N·m/ft·lb) | Weight (kg/lbs) Ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|-----|------|------|----------------|------|------|-------|----------|-------------------------|--|-----------------------------|
| | | | Thread | T | D2 | i | L | L ¹ | L2 | S1 | S2 | Thread T | | | |
| S | 20 | 400 | G 1/2 | 12 | 14 | 45 | 56 | 2.5 | 32 | 36 | 115 | 13,76 | FI-GE-20SR1/2-WD-B-W3 | | |
| | .79 | 5800 | | .47 | .55 | 1.77 | 2.20 | .81 | 1.26 | 1.42 | 85.1 | 30.28 | | | |
| | 20 | 400 | G 3/4 | 16 | 16 | 47 | 58 | 2.5 | 32 | 36 | 180 | 14,86 | FI-GE-20SR-WD-B-W3 | | |
| | .79 | 5800 | | .63 | .63 | 1.85 | 2.28 | .81 | 1.26 | 1.42 | 133.2 | 32.70 | | | |
| | 20 | 400 | G 1 | 16 | 18 | 51 | 62 | 22,5 | 41 | 36 | 310 | 21,90 | FI-GE-20SR1-WD-B-W3 | | |
| | .79 | 5800 | | .63 | .71 | 2.01 | 2.44 | .89 | 1.61 | 1.42 | 229.4 | 48.19 | | | |
| | 20 | 400 | G 1 1/4 | 16 | 20 | 53 | 64 | 22,5 | 50 | 36 | 450 | 13,50 | FI-GE-20SR1-1/4-WD-B-W3 | | |
| | .79 | 5800 | | .63 | .79 | 2.09 | 2.52 | .89 | 1.97 | 1.42 | 333.0 | 29.70 | | | |
| | 25 | 400 | G 1/2 | 12 | 14 | 49 | 61 | 23 | 41 | 46 | 115 | 23,49 | FI-GE-25SR1/2-WD-B-W3 | | |
| | .98 | 5800 | | .47 | .55 | 1.93 | 2.40 | .91 | 1.61 | 1.81 | 85.1 | 51.68 | | | |
| | 25 | 400 | G 3/4 | 16 | 16 | 51 | 63 | 23 | 41 | 46 | 180 | 20,33 | FI-GE-25SR3/4-WD-B-W3 | | |
| | .98 | 5800 | | .63 | .63 | 2.01 | 2.48 | .91 | 1.61 | 1.81 | 133.2 | 44.73 | | | |
| | 25 | 400 | G 1 | 20 | 18 | 53 | 65 | 23 | 41 | 46 | 310 | 26,75 | FI-GE-25SR-WD-B-W3 | | |
| | .98 | 5800 | | .79 | .71 | 2.09 | 2.56 | .91 | 1.61 | 1.81 | 229.4 | 58.84 | | | |
| | 25 | 400 | G 1 1/4 | 20 | 20 | 55 | 67 | 23 | 50 | 46 | 450 | 23,28 | FI-GE-25SR1-1/4-WD-B-W3 | | |
| | .98 | 5800 | | .79 | .79 | 2.17 | 2.64 | .91 | 1.97 | 1.81 | 333.0 | 51.22 | | | |
| | 30 | 400 | G 3/4 | 16 | 16 | 53 | 66 | 23,5 | 46 | 50 | 180 | 31,16 | FI-GE-30SR3/4-WD-B-W3 | | |
| | 1.18 | 5800 | | .63 | .63 | 2.09 | 2.60 | .93 | 1.81 | 1.97 | 133.2 | 68.56 | | | |
| | 30 | 400 | G 1 | 20 | 18 | 55 | 68 | 23,5 | 46 | 50 | 310 | 33,20 | FI-GE-30SR1-WD-B-W3 | | |
| | 1.18 | 5800 | | .79 | .71 | 2.17 | 2.68 | .93 | 1.81 | 1.97 | 229.4 | 73.04 | | | |
| | 30 | 400 | G 1 1/4 | 25 | 20 | 57 | 70 | 23,5 | 50 | 50 | 450 | 41,74 | FI-GE-30SR-WD-B-W3 | | |
| | 1.18 | 5800 | | .98 | .79 | 2.24 | 2.76 | .93 | 1.97 | 1.97 | 333.0 | 91.82 | | | |
| | 30 | 400 | G 1 1/2 | 25 | 22 | 62 | 75 | 26,5 | 55 | 50 | 540 | 54,30 | FI-GE-30SR1-1/2-WD-B-W3 | | |
| | 1.18 | 5800 | | .98 | .87 | 2.44 | 2.95 | 1.04 | 2.17 | 1.97 | 399.6 | 119.46 | | | |
| | 38 | 400 | G 1 | 20 | 18 | 60 | 75 | 26 | 55 | 50 | 310 | 52,00 | FI-GE-38SR1-WD-B-W3 | | |
| | 1.50 | 5800 | | .79 | .71 | 2.36 | 2.95 | 1.02 | 2.17 | 1.97 | 229.4 | 114.40 | | | |
| | 38 | 400 | G 1 1/4 | 25 | 20 | 62 | 77 | 26 | 55 | 60 | 450 | 57,22 | FI-GE-38SR1-1/4-WD-B-W3 | | |
| | 1.50 | 5800 | | .98 | .79 | 2.44 | 3.03 | 1.02 | 2.17 | 2.36 | 333.0 | 125.88 | | | |
| | 38 | 400 | G 1 1/2 | 32 | 22 | 64 | 79 | 26 | 55 | 60 | 540 | 55,90 | FI-GE-38SR-WD-B-W3 | | |
| | 1.50 | 5800 | | 1.26 | .87 | 2.52 | 3.11 | 1.02 | 2.17 | 2.36 | 399.6 | 122.98 | | | |

Ordering Codes

***FI-GE*-10*L*R*-WD*-B*-W3*-MS**

- * Straight Male Stud Fitting FI-GE
- * Outside Tube Diameter D1 (in mm) -10
- * Series Light Series (pages 44/45) L
Heavy Series (pages 46/47) S
- * Thread Type Whitworth Parallel Pipe Thread (BSPP) R
- If required, please indicate special sizes, e.g. R1/8!
- * Seal Type Profile Sealing Ring -WD
- * Seal Material NBR (Buna-N®) -B
FKM (Viton®) -V
EPDM -E
- * Material Code Steel, zinc/nickel-plated -W3
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body only —
Fitting body supplied with cutting ring and union nut -MS
Fitting body supplied with soft-sealing cutting ring and union nut -MSV

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.

Male stud acc. to ISO 1179-2 (Type E)
 Port acc. to ISO 1179-1

Torque recommendations for Steel mating material.

Standard seal material is NBR (Buna-N®).

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended. Please contact STAUFF prior to the assembly for further information.

Connecting Parts

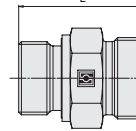
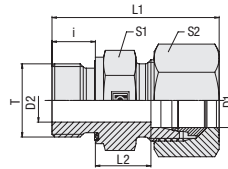
- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

Spare Parts / Accessories

- Profile Sealing Ring Type **WDG** Page 206



Straight Male Stud Fitting
Type FI-GE-...-M-WD ▪ Series L



C

Ordering Codes

***FI-GE*-10*L*M*-WD*-B*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
Light Series (page 48)
S
Heavy Series (page 49)
- * Thread Type **M**
Metric Parallel Thread
- If required, please indicate special sizes, e.g. M12x1.5!
- * Seal Type **-WD**
Profile Sealing Ring
- * Seal Material **-B**
NBR (Buna-N®)
-V
FKM (Viton®)
-E
EPDM
- * Material Code **-W3**
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
Fitting body only
- MS**
Fitting body supplied with cutting ring and union nut
- MSV**
Fitting body supplied with soft-sealing cutting ring and union nut

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

Spare Parts / Accessories

- Profile Sealing Ring
Type **WDG** Page 206

Metric Parallel Thread

Profile Sealing Ring

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | Torque (N·m/ft·lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|-----|------|-----------------|------|------|------|----------|-------|--------------------------|--|-----------------------------|
| | | | Thread | D2 | i | L | L1 ¹ | L2 | S1 | S2 | Thread T | | | | |
| L | 6 | 500 | M 10 x 1 | 4 | 8 | 23,5 | 31,5 | 8,5 | 14 | 14 | 18 | 1,36 | FI-GE-06LM-WD-B-W3 | | |
| | .24 | 7250 | | .16 | .31 | .93 | 1.24 | .33 | .55 | .55 | 13.3 | 2.99 | | | |
| | 6 | 500 | M 12 x 1,5 | 4 | 12 | 29 | 37 | 10 | 17 | 14 | 25 | 2,26 | FI-GE-06LM12x1.5-WD-B-W3 | | |
| | .24 | 7250 | | .16 | .47 | 1.14 | 1.46 | .39 | .67 | .55 | 18.5 | 4.98 | | | |
| | 8 | 500 | M 10 x 1 | 4 | 8 | 23,5 | 31,5 | 8,5 | 14 | 17 | 18 | 1,54 | FI-GE-08LM10x1-WD-B-W3 | | |
| | .31 | 7250 | | .16 | .31 | .93 | 1.24 | .33 | .55 | .67 | 13.3 | 3.39 | | | |
| | 8 | 500 | M 12 x 1,5 | 6 | 12 | 29 | 37 | 10 | 17 | 17 | 25 | 2,16 | FI-GE-08LM-WD-B-W3 | | |
| | .31 | 7250 | | .24 | .47 | 1.14 | 1.46 | .39 | .67 | .67 | 18.5 | 4.75 | | | |
| | 8 | 500 | M 14 x 1,5 | 6 | 12 | 29 | 37 | 10 | 19 | 17 | 45 | 3,11 | FI-GE-08LM14x1.5-WD-B-W3 | | |
| | .31 | 7250 | | .24 | .47 | 1.14 | 1.46 | .39 | .75 | .67 | 33.3 | 6.83 | | | |
| | 8 | 400 | M 16 x 1,5 | 6 | 12 | 30 | 38 | 11 | 22 | 17 | 55 | 4,05 | FI-GE-08LM16x1.5-WD-B-W3 | | |
| | .31 | 5800 | | .24 | .47 | 1.18 | 1.50 | .43 | .87 | .67 | 40.7 | 8.91 | | | |
| | 10 | 400 | M 12 x 1,5 | 6 | 12 | 30 | 38 | 11 | 17 | 19 | 25 | 2,38 | FI-GE-10LM12x1.5-WD-B-W3 | | |
| | .39 | 5800 | | .24 | .47 | 1.18 | 1.50 | .43 | .67 | .75 | 18.5 | 5.23 | | | |
| | 10 | 400 | M 14 x 1,5 | 7 | 12 | 30 | 38 | 11 | 19 | 19 | 45 | 2,88 | FI-GE-10LM-WD-B-W3 | | |
| | .39 | 5800 | | .28 | .47 | 1.18 | 1.50 | .43 | .75 | .75 | 33.3 | 6.33 | | | |
| | 10 | 400 | M 16 x 1,5 | 8 | 12 | 31,5 | 39,5 | 12,5 | 22 | 19 | 55 | 4,05 | FI-GE-10LM16x1.5-WD-B-W3 | | |
| | .39 | 5800 | | .31 | .47 | 1.24 | 1.56 | .49 | .87 | .75 | 40.7 | 8.91 | | | |
| | 10 | 400 | M 18 x 1,5 | 8 | 12 | 31,5 | 39,5 | 12,5 | 24 | 19 | 70 | 4,94 | FI-GE-10LM18x1.5-WD-B-W3 | | |
| | .39 | 5800 | | .31 | .47 | 1.24 | 1.56 | .49 | .94 | .75 | 51.8 | 10.86 | | | |
| | 10 | 400 | M 22 x 1,5 | 8 | 14 | 34 | 42 | 13 | 27 | 19 | 125 | 7,36 | FI-GE-10LM22x1.5-WD-B-W3 | | |
| | .39 | 5800 | | .31 | .55 | 1.34 | 1.65 | .51 | 1.06 | .75 | 92.5 | 16.19 | | | |
| | 12 | 400 | M 12 x 1,5 | 4 | 12 | 32 | 40 | 11 | 19 | 22 | 25 | 2,84 | FI-GE-12LM12x1.5-WD-B-W3 | | |
| | .47 | 5800 | | .16 | .47 | 1.26 | 1.57 | .43 | .75 | .87 | 18.5 | 6.25 | | | |
| | 12 | 400 | M 14 x 1,5 | 7 | 12 | 30 | 38 | 11 | 19 | 22 | 45 | 3,06 | FI-GE-12LM14x1.5-WD-B-W3 | | |
| | .47 | 5800 | | .28 | .47 | 1.18 | 1.50 | .43 | .75 | .87 | 33.3 | 6.72 | | | |
| | 12 | 400 | M 16 x 1,5 | 9 | 12 | 31,5 | 39,5 | 12,5 | 22 | 22 | 55 | 3,94 | FI-GE-12LM-WD-B-W3 | | |
| | .47 | 5800 | | .35 | .47 | 1.24 | 1.56 | .49 | .87 | .87 | 40.7 | 8.66 | | | |
| | 12 | 400 | M 18 x 1,5 | 10 | 12 | 31,5 | 39,5 | 12,5 | 24 | 22 | 70 | 4,90 | FI-GE-12LM18x1.5-WD-B-W3 | | |
| | .47 | 5800 | | .39 | .47 | 1.24 | 1.56 | .49 | .94 | .87 | 51.8 | 10.78 | | | |
| | 12 | 400 | M 22 x 1,5 | 10 | 14 | 34 | 42 | 13 | 27 | 22 | 125 | 6,96 | FI-GE-12LM22x1.5-WD-B-W3 | | |
| | .47 | 5800 | | .39 | .55 | 1.34 | 1.65 | .51 | 1.06 | .87 | 92.5 | 15.31 | | | |
| | 15 | 400 | M 16 x 1,5 | 9 | 12 | 32,5 | 40,5 | 13,5 | 24 | 27 | 55 | 5,15 | FI-GE-15LM16x1.5-WD-B-W3 | | |
| | .59 | 5800 | | .35 | .47 | 1.28 | 1.59 | .53 | .94 | 1.06 | 40.7 | 11.33 | | | |
| | 15 | 400 | M 18 x 1,5 | 11 | 12 | 32,5 | 40,5 | 13,5 | 24 | 27 | 70 | 5,05 | FI-GE-15LM-WD-B-W3 | | |
| | .59 | 5800 | | .43 | .47 | 1.28 | 1.59 | .53 | .94 | 1.06 | 51.8 | 11.11 | | | |
| | 15 | 400 | M 22 x 1,5 | 12 | 14 | 35 | 43 | 14 | 27 | 27 | 125 | 7,15 | FI-GE-15LM22x1.5-WD-B-W3 | | |
| | .59 | 5800 | | .47 | .55 | 1.38 | 1.69 | .55 | 1.06 | 1.06 | 92.5 | 15.73 | | | |
| | 18 | 400 | M 18 x 1,5 | 11 | 12 | 33,5 | 42,5 | 14 | 27 | 32 | 90 | 6,26 | FI-GE-18LM18x1.5-WD-B-W3 | | |
| | .71 | 5800 | | .43 | .47 | 1.32 | 1.67 | .55 | 1.06 | 1.26 | 66.6 | 13.77 | | | |
| | 18 | 400 | M 22 x 1,5 | 14 | 14 | 36 | 45 | 14,5 | 27 | 32 | 125 | 7,43 | FI-GE-18LM-WD-B-W3 | | |
| | .71 | 5800 | | .55 | .55 | 1.42 | 1.77 | .57 | 1.06 | 1.26 | 92.5 | 16.35 | | | |
| | 22 | 250 | M 22 x 1,5 | 14 | 14 | 38 | 47 | 16,5 | 32 | 36 | 125 | 9,10 | FI-GE-22LM22x1.5-WD-B-W3 | | |
| | .87 | 3625 | | .55 | .55 | 1.50 | 1.85 | .65 | 1.26 | 1.42 | 92.5 | 20.02 | | | |
| | 22 | 250 | M 26 x 1,5 | 18 | 16 | 40 | 49 | 16,5 | 32 | 36 | 180 | 10,23 | FI-GE-22LM-WD-B-W3 | | |
| | .87 | 3625 | | .71 | .63 | 1.57 | 1.93 | .65 | 1.26 | 1.42 | 133.2 | 22.51 | | | |
| | 28 | 250 | M 33 x 2 | 23 | 18 | 43 | 52 | 17,5 | 41 | 41 | 310 | 16,76 | FI-GE-28LM-WD-B-W3 | | |
| | 1.10 | 3625 | | .91 | .71 | 1.69 | 2.05 | .69 | 1.61 | 1.61 | 229.4 | 36.87 | | | |
| | 35 | 250 | M 42 x 2 | 30 | 20 | 48 | 59 | 17,5 | 50 | 50 | 450 | 27,63 | FI-GE-35LM-WD-B-W3 | | |
| | 1.38 | 3625 | | 1.18 | .79 | 1.89 | 2.32 | .69 | 1.97 | 1.97 | 333.0 | 60.79 | | | |
| | 42 | 250 | M 48 x 2 | 36 | 22 | 52 | 64 | 19 | 55 | 60 | 540 | 34,63 | FI-GE-42LM-WD-B-W3 | | |
| | 1.65 | 3625 | | 1.42 | .87 | 2.05 | 2.52 | .75 | 2.17 | 2.36 | 399.6 | 76.19 | | | |

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).

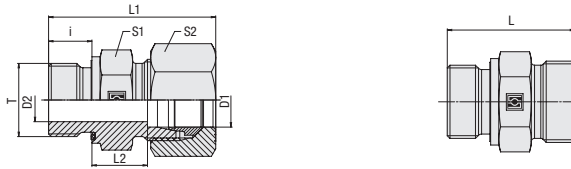
Male stud acc. to ISO 9974-2 (Type E)
 Port acc. to ISO 9974-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
 Please contact STAUFF prior to the assembly for further information.



Straight Male Stud Fitting
Type FI-GE-...-M-WD ▪ Series S



C

Profile Sealing Ring

Metric Parallel Thread

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | Torque (N·m/ft·lb) | Weight (kg/lbs) Ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|-----|------|------|------|----------------|------|-------|--------|--------------------|--------------------------|--|-----------------------------|
| | | | Thread | T | D2 | i | L | L ¹ | L2 | S1 | S2 | Thread T | | | |
| S | 6 | 800 | M 12 x 1,5 | 4 | 12 | 32 | 40 | 13 | 17 | 17 | 35 | 2,93 | FI-GE-06SM-WD-B-W3 | | |
| | .24 | 11600 | | .16 | .47 | 1.26 | 1.57 | .51 | .67 | .67 | 25.9 | 6.44 | | | |
| | 8 | 800 | M 14 x 1,5 | 5 | 12 | 34 | 42 | 15 | 19 | 19 | 55 | 4,16 | FI-GE-08SM-WD-B-W3 | | |
| | .31 | 11600 | | .20 | .47 | 1.34 | 1.65 | .59 | .75 | .75 | 40.7 | 9.16 | | | |
| | 10 | 800 | M 14 x 1,5 | 5 | 12 | 34,5 | 43,5 | 15 | 19 | 22 | 55 | 4,97 | FI-GE-10SM14x1.5-WD-B-W3 | | |
| | .39 | 11600 | | .20 | .47 | 1.36 | 1.71 | .59 | .75 | .87 | 40.7 | 10.93 | | | |
| | 10 | 800 | M 16 x 1,5 | 7 | 12 | 34,5 | 43,5 | 15 | 22 | 22 | 70 | 5,36 | FI-GE-10SM-WD-B-W3 | | |
| | .39 | 11600 | | .28 | .47 | 1.36 | 1.71 | .59 | .87 | .87 | 51.8 | 11.79 | | | |
| | 12 | 630 | M 14 x 1,5 | 5 | 12 | 36 | 45 | 16,5 | 22 | 24 | 55 | 6,00 | FI-GE-12SM14x1.5-WD-B-W3 | | |
| | .47 | 9135 | | .20 | .47 | 1.42 | 1.77 | .65 | .87 | .94 | 40.7 | 13.20 | | | |
| | 12 | 630 | M 16 x 1,5 | 8 | 12 | 36 | 45 | 16,5 | 22 | 24 | 70 | 6,12 | FI-GE-12SM16x1.5-WD-B-W3 | | |
| | 0,47 | 9135 | | .31 | .47 | 1.42 | 1.77 | .65 | .87 | .94 | 51.8 | 13.47 | | | |
| | 12 | 630 | M 18 x 1,5 | 8 | 12 | 36,5 | 45,5 | 17 | 24 | 24 | 90 | 7,12 | FI-GE-12SM-WD-B-W3 | | |
| | .47 | 9135 | | .31 | .47 | 1.44 | 1.79 | .67 | .94 | .94 | 66.6 | 15.67 | | | |
| | 12 | 630 | M 22 x 1,5 | 8 | 14 | 39 | 48 | 17,5 | 27 | 24 | 135 | 9,28 | FI-GE-12SM22x1.5-WD-B-W3 | | |
| | .47 | 9135 | | .31 | .55 | 1.54 | 1.89 | .69 | 1.06 | .94 | 99.9 | 20.42 | | | |
| | 14 | 630 | M 20 x 1,5 | 10 | 14 | 41 | 51 | 19 | 27 | 27 | 125 | 9,46 | FI-GE-14SM-WD-B-W3 | | |
| | .55 | 9135 | | .39 | .55 | 1.61 | 2.01 | .75 | 1.06 | 1.06 | 92.5 | 20.82 | | | |
| | 16 | 630 | M 18 x 1,5 | 8 | 12 | 38,5 | 48,5 | 18 | 24 | 30 | 90 | 7,82 | FI-GE-16SM18x1.5-WD-B-W3 | | |
| | .63 | 9135 | | .31 | .47 | 1.52 | 1.91 | .71 | .94 | 1.18 | 66.6 | 17.20 | | | |
| | 16 | 630 | M 22 x 1,5 | 12 | 14 | 41 | 51 | 18,5 | 27 | 30 | 135 | 9,52 | FI-GE-16SM-WD-B-W3 | | |
| | .63 | 9135 | | .47 | .55 | 1.61 | 2.01 | .73 | 1.06 | 1.18 | 99.9 | 20.95 | | | |
| | 20 | 400 | M 27 x 2 | 16 | 16 | 47 | 58 | 20,5 | 32 | 36 | 180 | 15,10 | FI-GE-20SM-WD-B-W3 | | |
| | .79 | 5800 | | .63 | .63 | 1.85 | 2.28 | .81 | 1.26 | 1.42 | 133.2 | 33.22 | | | |
| | 25 | 400 | M 33 x 2 | 20 | 18 | 53 | 65 | 23 | 41 | 46 | 310 | 26,43 | FI-GE-25SM-WD-B-W3 | | |
| | .98 | 5800 | | .79 | .71 | 2.09 | 2.56 | .91 | 1.61 | 1.81 | 229.4 | 58.15 | | | |
| | 30 | 400 | M 42 x 2 | 25 | 20 | 57 | 70 | 23,5 | 50 | 50 | 450 | 41,84 | FI-GE-30SM-WD-B-W3 | | |
| | 1.18 | 5800 | | .98 | .79 | 2.24 | 2.76 | .93 | 1.97 | 1.97 | 333.0 | 92.06 | | | |
| 38 | 400 | M 48 x 2 | 32 | 22 | 64 | 79 | 26 | 55 | 60 | 540 | 57,00 | FI-GE-38SM-WD-B-W3 | | | |
| 1.50 | 5800 | | 1.26 | .87 | 2.52 | 3.11 | 1.02 | 2.17 | 2.36 | 399.6 | 125.40 | | | | |

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.

Male stud acc. to ISO 9974-2 (Type E)
 Port acc. to ISO 9974-1

Torque recommendations for Steel mating material.

Standard seal material is NBR (Buna-N®).

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes

***FI-GE*-10*L*M*-WD*-B*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Light Series (page 48) **L**
Heavy Series (page 49) **S**
- * Thread Type Metric Parallel Thread **M**

If required, please indicate special sizes, e.g. M12x1.5!

- * Seal Type Profile Sealing Ring **-WD**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

- * Assembling / Kitting Fitting body only **—**
Fitting body supplied with cutting ring and union nut **-MS**
Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

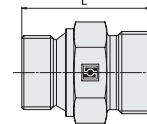
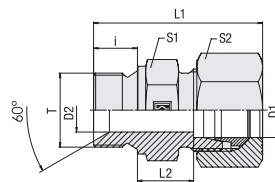
- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

Spare Parts / Accessories

- Profile Sealing Ring Type **WDG** Page 206



Straight Male Stud Fitting
Type FI-GE-...-R-DF ▪ Series L



C

Whitworth Parallel Pipe Thread (BSPP)

60° Conical Bore / Sealing Surface for Gaskets

Ordering Codes

***FI-GE*-10*L*R*-DF*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Light Series (page 50) **L**
Heavy Series (page 51) **S**
- * Thread Type Whitworth Parallel Pipe Thread (BSPP) **R**
- If required, please indicate special sizes, e.g. R1/8!
- * Seal Type 60° Conical Bore (BS 5200) / Sealing Surface for Gasket (DIN 7603) **-DF**
- * Material Code Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body only **—**
- Fitting body supplied with cutting ring and union nut **-MS**
- Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended. Please contact STAUFF prior to the assembly for further information.

| Series | Tube OD | | PN | Dimensions | | | | | | | | | | Torque (^{N-m} /ft-lb) | Weight (^{kg} /lbs) ca. | Ordering Codes ³ |
|--------|---------|---------|-----|------------|--------|-----|------|------|------|-----------------|------|-------|-------|------------------------------------|-------------------------------------|-----------------------------|
| | (mm/in) | (mm/in) | | (mm/in) | Thread | T | D2 | i | L | L1 ¹ | L2 | S1 | S2 | | | |
| L | 6 | 500 | 500 | G 1/8 | 3,5 | 8 | 23,5 | 31,5 | 8,5 | 14 | 14 | 20 | 1,38 | FI-GE-06LR-DF-W3 | | |
| | .24 | 7250 | | | .14 | .31 | .93 | 1.24 | .33 | .55 | .55 | 14.8 | 3.04 | | | |
| L | 6 | 500 | 500 | G 1/4 | 4 | 12 | 29 | 36 | 10 | 19 | 14 | 50 | 2,75 | FI-GE-06LR1/4-DF-W3 | | |
| | .24 | 7250 | | | .16 | .47 | 1.14 | 1.42 | .39 | .75 | .55 | 37.0 | 6.05 | | | |
| L | 6 | 500 | 500 | G 3/8 | 7,9 | 12 | 30,5 | 38 | 11 | 22 | 14 | 80 | 3,94 | FI-GE-06LR3/8-DF-W3 | | |
| | .24 | 7250 | | | .31 | .47 | 1.20 | 1.50 | .43 | .87 | .55 | 59.2 | 8.68 | | | |
| L | 8 | 500 | 500 | G 1/8 | 3,5 | 8 | 24,5 | 32 | 10 | 14 | 17 | 20 | 1,71 | FI-GE-08LR1/8-DF-W3 | | |
| | .31 | 7250 | | | .14 | .31 | .96 | 1.26 | .39 | .55 | .67 | 14.8 | 3.76 | | | |
| L | 8 | 500 | 500 | G 1/4 | 4,7 | 12 | 29 | 37 | 10 | 19 | 17 | 50 | 2,87 | FI-GE-08LR-DF-W3 | | |
| | .31 | 7250 | | | .19 | .47 | 1.14 | 1.46 | .39 | .75 | .67 | 37.0 | 6.31 | | | |
| L | 8 | 500 | 500 | G 3/8 | 6 | 12 | 30,5 | 38 | 11 | 22 | 17 | 80 | 4,28 | FI-GE-08LR3/8-DF-W3 | | |
| | .31 | 7250 | | | .24 | .47 | 1.20 | 1.50 | .43 | .87 | .67 | 59.2 | 9.41 | | | |
| L | 10 | 500 | 500 | G 1/4 | 4,7 | 12 | 30 | 38 | 11 | 19 | 19 | 80 | 2,82 | FI-GE-10LR-DF-W3 | | |
| | .39 | 7250 | | | .19 | .47 | 1.18 | 1.50 | .43 | .75 | .75 | 59.2 | 6.21 | | | |
| L | 10 | 500 | 500 | G 3/8 | 7,9 | 12 | 31,5 | 39 | 12,5 | 22 | 19 | 80 | 4,18 | FI-GE-10LR3/8-DF-W3 | | |
| | .39 | 7250 | | | .31 | .47 | 1.24 | 1.54 | .49 | .87 | .75 | 59.2 | 9.19 | | | |
| L | 10 | 500 | 500 | G 1/2 | 11,1 | 14 | 34 | 41 | 13 | 27 | 19 | 140 | 6,28 | FI-GE-10LR1/2-DF-W3 | | |
| | .39 | 7250 | | | .44 | .55 | 1.34 | 1.61 | .51 | 1.06 | .75 | 103.6 | 13.81 | | | |
| L | 12 | 400 | 400 | G 1/4 | 4,7 | 12 | 31 | 39 | 12 | 19 | 22 | 50 | 3,30 | FI-GE-12LR1/4-DF-W3 | | |
| | .47 | 5800 | | | .19 | .47 | 1.22 | 1.54 | .47 | .75 | .87 | 37.0 | 7.26 | | | |
| L | 12 | 400 | 400 | G 3/8 | 7,9 | 12 | 31,5 | 39,5 | 12,5 | 22 | 22 | 80 | 4,39 | FI-GE-12LR-DF-W3 | | |
| | .47 | 5800 | | | .31 | .47 | 1.24 | 1.56 | .49 | .87 | .87 | 59.2 | 9.66 | | | |
| L | 12 | 400 | 400 | G 1/2 | 10 | 14 | 34 | 42 | 13 | 27 | 22 | 140 | 6,47 | FI-GE-12LR1/2-DF-W3 | | |
| | .47 | 5800 | | | .39 | .55 | 1.34 | 1.65 | .51 | 1.06 | .87 | 103.6 | 14.23 | | | |
| L | 15 | 400 | 400 | G 3/8 | 7,9 | 12 | 32,5 | 40 | 13,5 | 24 | 27 | 80 | 5,18 | FI-GE-15LR3/8-DF-W3 | | |
| | .59 | 5800 | | | .31 | .47 | 1.28 | 1.57 | .53 | .94 | 1.06 | 59.2 | 11.39 | | | |
| L | 15 | 400 | 400 | G 1/2 | 11,1 | 14 | 35 | 40,5 | 14 | 27 | 27 | 140 | 6,98 | FI-GE-15LR-DF-W3 | | |
| | .59 | 5800 | | | .44 | .55 | 1.38 | 1.59 | .55 | 1.06 | 1.06 | 103.6 | 15.35 | | | |
| L | 18 | 400 | 400 | G 3/8 | 7,9 | 12 | 33,5 | 41 | 14 | 27 | 32 | 80 | 4,90 | FI-GE-18LR3/8-DF-W3 | | |
| | .71 | 5800 | | | .31 | .47 | 1.32 | 1.61 | .55 | 1.06 | 1.26 | 59.2 | 10.78 | | | |
| L | 18 | 400 | 400 | G 1/2 | 11,1 | 14 | 35 | 45 | 13,5 | 27 | 32 | 140 | 5,35 | FI-GE-18LR-DF-W3 | | |
| | .71 | 5800 | | | .44 | .55 | 1.38 | 1.77 | .53 | 1.06 | 1.26 | 103.6 | 11.77 | | | |
| L | 18 | 400 | 400 | G 3/4 | 15 | 16 | 38 | 47 | 14,5 | 32 | 32 | 190 | 10,79 | FI-GE-18LR3/4-DF-W3 | | |
| | .71 | 5800 | | | .59 | .63 | 1.50 | 1.85 | .57 | 1.26 | 1.26 | 140.6 | 23.74 | | | |
| L | 22 | 250 | 250 | G 1/2 | 11,1 | 14 | 38 | 47 | 16,5 | 32 | 36 | 140 | 9,53 | FI-GE-22LR1/2-DF-W3 | | |
| | .87 | 3625 | | | .44 | .55 | 1.50 | 1.85 | .65 | 1.26 | 1.42 | 103.6 | 20.96 | | | |
| L | 22 | 250 | 250 | G 3/4 | 16,7 | 16 | 40 | 49 | 16,5 | 32 | 36 | 190 | 9,94 | FI-GE-22LR-DF-W3 | | |
| | .87 | 3625 | | | .66 | .63 | 1.57 | 1.93 | .65 | 1.26 | 1.42 | 140.6 | 21.88 | | | |
| L | 22 | 250 | 250 | G 1 | 22,2 | 18 | 43 | 51 | 17,5 | 41 | 36 | 330 | 16,58 | FI-GE-22LR1-DF-W3 | | |
| | .87 | 3625 | | | .87 | .71 | 1.69 | 2.01 | .69 | 1.61 | 1.42 | 244.2 | 36.48 | | | |
| L | 28 | 250 | 250 | G 1/2 | 11,1 | 14 | 39 | 48 | 17,5 | 41 | 41 | 140 | 13,58 | FI-GE-28LR1/2-DF-W3 | | |
| | 1.10 | 3625 | | | .44 | .55 | 1.54 | 1.89 | .69 | 1.61 | 1.61 | 103.6 | 29.88 | | | |
| L | 28 | 250 | 250 | G 3/4 | 16,7 | 16 | 41 | 50 | 17,5 | 41 | 41 | 190 | 15,87 | FI-GE-28LR3/4-DF-W3 | | |
| | 1.10 | 3625 | | | .66 | .63 | 1.61 | 1.97 | .69 | 1.61 | 1.61 | 140.6 | 34.91 | | | |
| L | 28 | 250 | 250 | G 1 | 22,2 | 18 | 43 | 52 | 17,5 | 41 | 41 | 330 | 17,46 | FI-GE-28LR-DF-W3 | | |
| | 1.10 | 3625 | | | .87 | .71 | 1.69 | 2.05 | .69 | 1.61 | 1.61 | 244.2 | 38.41 | | | |
| L | 28 | 250 | 250 | G 1 1/4 | 28,6 | 20 | 48 | 57 | 20,5 | 50 | 41 | 540 | 20,04 | FI-GE-28LR1-1/4-DF-W3 | | |
| | 1.10 | 3625 | | | 1.13 | .79 | 1.89 | 2.24 | .81 | 1.97 | 1.61 | 399.6 | 44.09 | | | |
| L | 35 | 250 | 250 | G 1 | 22,2 | 18 | 46 | 57 | 17,5 | 50 | 50 | 330 | 24,26 | FI-GE-35LR1-DF-W3 | | |
| | 1.38 | 3625 | | | .87 | .71 | 1.81 | 2.24 | .69 | 1.97 | 1.97 | 244.2 | 53.37 | | | |
| L | 35 | 250 | 250 | G 1 1/4 | 28,6 | 20 | 48 | 59 | 17,5 | 50 | 50 | 540 | 28,81 | FI-GE-35LR-DF-W3 | | |
| | 1.38 | 3625 | | | 1.13 | .79 | 1.89 | 2.32 | .69 | 1.97 | 1.97 | 399.6 | 63.37 | | | |
| L | 42 | 250 | 250 | G 1 1/4 | 28,6 | 20 | 50 | 62 | 19 | 55 | 60 | 540 | 33,91 | FI-GE-42LR1-1/4-DF-W3 | | |
| | 1.65 | 3625 | | | 1.13 | .79 | 1.97 | 2.44 | .75 | 2.17 | 2.36 | 399.6 | 74.59 | | | |
| L | 42 | 250 | 250 | G 1 1/2 | 33,3 | 22 | 52 | 64 | 19 | 55 | 60 | 630 | 36,75 | FI-GE-42LR-DF-W3 | | |
| | 1.65 | 3625 | | | 1.31 | .87 | 2.05 | 2.52 | .75 | 2.17 | 2.36 | 466.2 | 80.85 | | | |

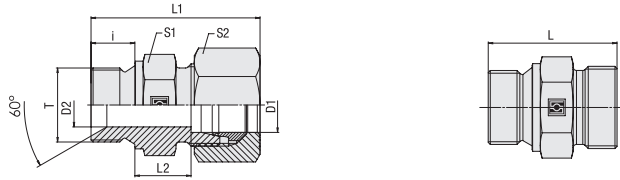
¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-2 (Form A)
 Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

Torque recommendations for Steel mating material.



Straight Male Stud Fitting
Type FI-GE-...-R-DF • Series S



C

60° Conical Bore / Sealing Surface for Gaskets

Whitworth Parallel Pipe Thread (BSPP)

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | Torque (N-m/ft-lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|--------|-----|------|------|------|-----------------|------|-------|-----------------------|--|-----------------------------|
| | | | D1 | Thread | T | D2 | i | L | L1 ¹ | L2 | S1 | | | |
| S | 6 | 800 | G 1/8 | 3,5 | 8 | 27,5 | 35 | 12,5 | 14 | 17 | | 2,09 | FI-GE-06SR1/8-DF-W3 | |
| | .24 | 11600 | | .14 | .31 | 1.08 | 1.38 | .49 | .55 | .67 | | 4.59 | | |
| 6 | 800 | | G 1/4 | 4 | 12 | 32 | 40 | 13 | 19 | 17 | 60 | 3,48 | FI-GE-06SR-DF-W3 | |
| | .24 | 11600 | | .16 | .47 | 1.26 | 1.57 | .51 | .75 | .67 | 44.4 | 7.66 | | |
| 6 | 800 | | G 3/8 | 7,9 | 12 | 34,5 | 42 | 15,5 | 22 | 17 | 100 | 4,63 | FI-GE-06SR3/8-DF-W3 | |
| | .24 | 11600 | | .31 | .47 | 1.36 | 1.65 | .61 | .87 | .67 | 74.0 | 10.18 | | |
| 6 | 800 | | G 1/2 | 11,1 | 14 | 35 | 43 | 14 | 27 | 17 | 160 | 6,22 | FI-GE-06SR1/2-DF-W3 | |
| | .24 | 11600 | | .44 | .55 | 1.38 | 1.69 | .55 | 1.06 | .67 | 118.4 | 13.68 | | |
| 8 | 800 | | G 1/8 | 3,5 | 8 | 27,5 | 35 | 12,5 | 14 | 17 | | 2,71 | FI-GE-08SR1/8-DF-W3 | |
| | .31 | 11600 | | .14 | .31 | 1.08 | 1.38 | .49 | .55 | .67 | | 5.97 | | |
| 8 | 800 | | G 1/4 | 4,7 | 12 | 34 | 42 | 15 | 19 | 19 | 60 | 4,10 | FI-GE-08SR-DF-W3 | |
| | .31 | 11600 | | .19 | .47 | 1.34 | 1.65 | .59 | .75 | .75 | 44.4 | 9.01 | | |
| 8 | 800 | | G 3/8 | 7,9 | 12 | 34,5 | 42 | 15,5 | 22 | 19 | 100 | 5,25 | FI-GE-08SR3/8-DF-W3 | |
| | .31 | 11600 | | .31 | .47 | 1.36 | 1.65 | .61 | .87 | .75 | 74.0 | 11.56 | | |
| 8 | 800 | | G 1/2 | 11,1 | 14 | 39 | 47 | 18 | 27 | 19 | 160 | 8,47 | FI-GE-08SR1/2-DF-W3 | |
| | .31 | 11600 | | .44 | .55 | 1.54 | 1.85 | .71 | 1.06 | .75 | 118.4 | 18.63 | | |
| 10 | 800 | | G 1/4 | 4,7 | 12 | 34 | 42 | 14,5 | 19 | 22 | 60 | 4,33 | FI-GE-10SR1/4-DF-W3 | |
| | .39 | 11600 | | .19 | .47 | 1.34 | 1.65 | .57 | .75 | .87 | 44.4 | 9.52 | | |
| 10 | 800 | | G 3/8 | 7 | 12 | 34,5 | 43,5 | 15 | 22 | 22 | 100 | 5,46 | FI-GE-10SR-DF-W3 | |
| | .39 | 11600 | | .28 | .47 | 1.36 | 1.71 | .59 | .87 | .87 | 74.0 | 12.01 | | |
| 10 | 800 | | G 1/2 | 11,1 | 14 | 35 | 43 | 13,5 | 27 | 22 | 160 | 6,76 | FI-GE-10SR1/2-DF-W3 | |
| | .39 | 11600 | | .44 | .55 | 1.38 | 1.69 | .53 | 1.06 | .87 | 118.4 | 14.87 | | |
| 12 | 630 | | G 1/4 | 4,7 | 12 | 36 | 44 | 16,5 | 22 | 24 | 60 | 5,70 | FI-GE-12SR1/4-DF-W3 | |
| | .47 | 9135 | | .19 | .47 | 1.42 | 1.73 | .65 | .87 | .94 | 44.4 | 12.53 | | |
| 12 | 630 | | G 3/8 | 7,9 | 12 | 36,5 | 45,5 | 17 | 22 | 24 | 100 | 6,17 | FI-GE-12SR-DF-W3 | |
| | .47 | 9135 | | .31 | .47 | 1.44 | 1.79 | .67 | .87 | .94 | 74.0 | 13.57 | | |
| 12 | 630 | | G 1/2 | 11,1 | 14 | 39 | 48 | 17,5 | 27 | 24 | 160 | 8,75 | FI-GE-12SR1/2-DF-W3 | |
| | .47 | 9135 | | .44 | .55 | 1.54 | 1.89 | .69 | 1.06 | .94 | 118.4 | 19.25 | | |
| 12 | 630 | | G 3/4 | 16,7 | 16 | 43 | 51 | 19,5 | 32 | 24 | 280 | 12,90 | FI-GE-12SR3/4-DF-W3 | |
| | .47 | 9135 | | .66 | .63 | 1.69 | 2.01 | .77 | 1.26 | .94 | 207.2 | 28.37 | | |
| 14 | 630 | | G 1/2 | 10 | 14 | 41 | 51 | 19 | 27 | 27 | 160 | 9,56 | FI-GE-14SR-DF-W3 | |
| | .55 | 9135 | | .39 | .55 | 1.61 | 2.01 | .75 | 1.06 | 1.06 | 118.4 | 21.03 | | |
| 16 | 630 | | G 3/8 | 7,9 | 12 | 38,5 | 48 | 18 | 27 | 30 | 100 | 6,82 | FI-GE-16SR3/8-DF-W3 | |
| | .63 | 9135 | | .31 | .47 | 1.52 | 1.89 | .71 | 1.06 | 1.18 | 74.0 | 15.01 | | |
| 16 | 630 | | G 1/2 | 11,1 | 14 | 41 | 51 | 18,5 | 27 | 30 | 160 | 9,05 | FI-GE-16SR-DF-W3 | |
| | .63 | 9135 | | .44 | .55 | 1.61 | 2.01 | .73 | 1.06 | 1.18 | 118.4 | 19.92 | | |
| 16 | 630 | | G 3/4 | 16,7 | 16 | 45 | 55 | 20,5 | 32 | 30 | 280 | 13,31 | FI-GE-16SR3/4-DF-W3 | |
| | .63 | 9135 | | .66 | .63 | 1.77 | 2.17 | .81 | 1.26 | 1.18 | 207.2 | 29.27 | | |
| 20 | 420 | | G 1/2 | 11,1 | 14 | 45 | 54 | 20,5 | 32 | 36 | 160 | 13,74 | FI-GE-20SR1/2-DF-W3 | |
| | .79 | 6090 | | .44 | .55 | 1.77 | 2.13 | .81 | 1.26 | 1.42 | 118.4 | 30.22 | | |
| 20 | 420 | | G 3/4 | 16 | 16 | 47 | 58 | 20,5 | 32 | 36 | 280 | 14,90 | FI-GE-20SR-DF-W3 | |
| | .79 | 6090 | | .63 | .63 | 1.85 | 2.28 | .81 | 1.26 | 1.42 | 207.2 | 32.77 | | |
| 20 | 420 | | G 1 | 22,2 | 18 | 51 | 62 | 22,5 | 41 | 36 | 440 | 23,12 | FI-GE-20SR1-DF-W3 | |
| | .79 | 6090 | | .87 | .71 | 2.01 | 2.44 | .89 | 1.61 | 1.42 | 325.6 | 50.86 | | |
| 25 | 420 | | G 1/2 | 11,1 | 14 | 49 | 56 | 23 | 41 | 46 | 160 | 23,68 | FI-GE-25SR1/2-DF-W3 | |
| | .98 | 6090 | | .44 | .55 | 1.93 | 2.20 | .91 | 1.61 | 1.81 | 118.4 | 52.10 | | |
| 25 | 420 | | G 3/4 | 16,7 | 16 | 51 | 63 | 23 | 41 | 46 | 280 | 23,73 | FI-GE-25SR3/4-DF-W3 | |
| | .98 | 6090 | | .66 | .63 | 2.01 | 2.48 | .91 | 1.61 | 1.81 | 207.2 | 52.21 | | |
| 25 | 420 | | G 1 | 20 | 18 | 53 | 65 | 23 | 41 | 46 | 440 | 20,71 | FI-GE-25SR-DF-W3 | |
| | .98 | 6090 | | .79 | .71 | 2.09 | 2.56 | .91 | 1.61 | 1.81 | 325.6 | 45.55 | | |
| 30 | 420 | | G 3/4 | 16,7 | 16 | 53 | 66 | 23,5 | 50 | 50 | 160 | 33,85 | FI-GE-30SR3/4-DF-W3 | |
| | 1.18 | 6090 | | .66 | .63 | 2.09 | 2.60 | .93 | 1.97 | 1.97 | 118.4 | 74.47 | | |
| 30 | 420 | | G 1 | 22,2 | 18 | 55 | 68 | 23,5 | 46 | 50 | 440 | 32,20 | FI-GE-30SR1-DF-W3 | |
| | 1.18 | 6090 | | .87 | .71 | 2.17 | 2.68 | .93 | 1.81 | 1.97 | 325.6 | 70.84 | | |
| 30 | 420 | | G 1 1/4 | 25 | 20 | 57 | 70 | 23,5 | 50 | 50 | 580 | 40,27 | FI-GE-30SR-DF-W3 | |
| | 1.18 | 6090 | | .98 | .79 | 2.24 | 2.76 | .93 | 1.97 | 1.97 | 429.2 | 88.59 | | |
| 38 | 420 | | G 1 | 22,2 | 18 | 60 | 73 | 26 | 55 | 60 | 440 | 47,79 | FI-GE-38SR1-DF-W3 | |
| | 1.50 | 6090 | | .87 | .71 | 2.36 | 2.87 | 1.02 | 2.17 | 2.36 | 325.6 | 105.13 | | |
| 38 | 420 | | G 1 1/4 | 38,6 | 20 | 62 | 77 | 26 | 55 | 60 | 580 | 51,40 | FI-GE-38SR1-1/4-DF-W3 | |
| | 1.50 | 6090 | | 1.52 | .79 | 2.44 | 3.03 | 1.02 | 2.17 | 2.36 | 429.2 | 113.08 | | |
| 38 | 420 | | G 1 1/2 | 32 | 22 | 64 | 79 | 26 | 55 | 60 | 700 | 54,70 | FI-GE-38SR-DF-W3 | |
| | 1,50 | 6090 | | 1.26 | .87 | 2.52 | 3.11 | 1.02 | 2.17 | 2.36 | 518.0 | 120.34 | | |

Ordering Codes

FI-GE-10*L*R*-DF*-W3*-MS

- * Straight Male Stud Fitting FI-GE
- * Outside Tube Diameter D1 (in mm) -10
- * Series L
Light Series (page 50)
Heavy Series (page 51) S
- * Thread Type R
Whitworth Parallel
Pipe Thread (BSPP)
- If required, please indicate special sizes, e.g. R1/8!
- * Seal Type -DF
60° Conical Bore (BS 5200) /
Sealing Surface for Gasket
(DIN 7603)
- * Material Code -W3
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting —
Fitting body only
- Fitting body supplied with cutting ring and union nut -MS
- Fitting body supplied with soft-sealing cutting ring and union nut -MSV

Connecting Parts

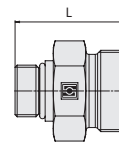
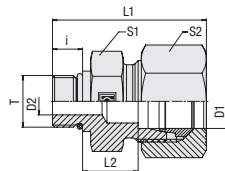
-  Cutting Ring
Type FI-DS Page 26
-  Soft-Sealing Cutting Ring
Type FI-WDDS Page 27
-  Support Sleeve
Type FI-VH Page 28
-  STAUFF Form Ring
Type FI-AR Page 30
-  Union Nut
Type FI-M Page 31
-  37° Flared Tube Fitting Set
Type FI-AB Page 35

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.
 Male stud acc. to DIN 3852-2 (Form A)
 Port acc. to DIN 3852-2 (Form X) / ISO 1179-1
 Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
 Please contact STAUFF prior to the assembly for further information.



Straight Male Stud Fitting
Type FI-GE-...-M-OR • Series L / S



C

Metric Parallel Thread

O-Ring

Ordering Codes

***FI-GE*-10*L*M*-OR*-B*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
Light Series
S
Heavy Series
- * Thread Type **M**
Metric Parallel Thread
- If required, please indicate special sizes, e.g. M12x1.5!
- * Seal Type **-OR**
O-Ring
- * Seal Material **-B**
NBR (Buna-N®)
-V
FKM (Viton®)
-E
EPDM
- * Material Code **-W3**
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body only **—**
Fitting body supplied with cutting ring and union nut **-MS**
Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

-  Cutting Ring
Type **FI-DS** Page 26
-  Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
-  Support Sleeve
Type **FI-VH** Page 28
-  STAUFF Form Ring
Type **FI-AR** Page 30
-  Union Nut
Type **FI-M** Page 31
-  37° Flared Tube Fitting Set
Type **FI-AB** Page 35

Spare Parts / Accessories

-  O-Ring
Type **O-RING** Page 207

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | Torque (N-m/ft-lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|------|------|------|-----------------|------|-------|-------|--------------------|------------------------|--|-----------------------------|
| | | | Thread | T | D2 | i | L | L1 ¹ | L2 | S1 | S2 | Thread T | | | |
| L | 6 | 400 | M 10 x 1 | 4 | 8,5 | 25 | 33 | 9,5 | 14 | 14 | 15 | 1,53 | FI-GE-06LM-OR-B-W3 | | |
| | .24 | 5800 | M 10 x 1 | .16 | .33 | .98 | 1.30 | .37 | .55 | .55 | 11.1 | 3.36 | FI-GE-06LM-OR-B-W3 | | |
| | 8 | 400 | M 12 x 1,5 | 6 | 11 | 28 | 36 | 10 | 17 | 17 | 25 | 2,16 | FI-GE-08LM-OR-B-W3 | | |
| | .31 | 5800 | M 12 x 1,5 | .24 | .43 | 1.10 | 1.42 | .39 | .67 | .67 | 18.5 | 4.75 | FI-GE-08LM-OR-B-W3 | | |
| | 10 | 400 | M 14 x 1,5 | 7,5 | 11 | 29 | 37 | 11 | 19 | 19 | 35 | 2,87 | FI-GE-10LM-OR-B-W3 | | |
| | .39 | 5800 | M 14 x 1,5 | .30 | .43 | 1.14 | 1.46 | .43 | .75 | .75 | 25.9 | 6.31 | FI-GE-10LM-OR-B-W3 | | |
| | 12 | 400 | M 16 x 1,5 | 9 | 11,5 | 31 | 39 | 12,5 | 22 | 22 | 40 | 4,10 | FI-GE-12LM-OR-B-W3 | | |
| | .47 | 5800 | M 16 x 1,5 | .35 | .45 | 1.22 | 1.54 | .49 | .87 | .87 | 29.6 | 9.01 | FI-GE-12LM-OR-B-W3 | | |
| | 15 | 400 | M 18 x 1,5 | 11 | 12,5 | 33 | 41 | 13,5 | 24 | 27 | 45 | 5,32 | FI-GE-15LM-OR-B-W3 | | |
| | .59 | 5800 | M 18 x 1,5 | .43 | .49 | 1.30 | 1.61 | .53 | .94 | 1.06 | 33.3 | 11.71 | FI-GE-15LM-OR-B-W3 | | |
| | 18 | 400 | M 22 x 1,5 | 14 | 13 | 35 | 44 | 14,5 | 27 | 32 | 60 | 7,55 | FI-GE-18LM-OR-B-W3 | | |
| | .71 | 5800 | M 22 x 1,5 | .55 | .51 | 1.38 | 1.73 | .57 | 1.06 | 1.26 | 44.4 | 16.60 | FI-GE-18LM-OR-B-W3 | | |
| | 22 | 250 | M 27 x 2 | 18 | 16 | 40 | 49 | 16,5 | 32 | 36 | 100 | 10,79 | FI-GE-22LM27x2-OR-B-W3 | | |
| | .87 | 3625 | M 27 x 2 | .71 | .63 | 1.57 | 1.93 | .65 | 1.26 | 1.42 | 74.0 | 23.73 | FI-GE-22LM27x2-OR-B-W3 | | |
| | 28 | 250 | M 33 x 2 | 23 | 16 | 41 | 50 | 17,5 | 41 | 41 | 160 | 16,73 | FI-GE-28LM-OR-B-W3 | | |
| | 1.10 | 3625 | M 33 x 2 | .91 | .63 | 1.61 | 1.97 | .69 | 1.61 | 1.61 | 118.4 | 36.81 | FI-GE-28LM-OR-B-W3 | | |
| | 35 | 250 | M 42 x 2 | 30 | 16 | 44 | 55 | 17,5 | 50 | 50 | 210 | 26,66 | FI-GE-35LM-OR-B-W3 | | |
| | 1.38 | 3625 | M 42 x 2 | 1.18 | .63 | 1.73 | 2.17 | .69 | 1.97 | 1.97 | 155.4 | 58.66 | FI-GE-35LM-OR-B-W3 | | |
| 42 | 250 | M 48 x 2 | 36 | 17,5 | 47,5 | 59,5 | 19 | 55 | 60 | 260 | 33,79 | FI-GE-42LM-OR-B-W3 | | | |
| 1.65 | 3625 | M 48 x 2 | 1.42 | .69 | 1.87 | 2.34 | .75 | 2.17 | 2.36 | 192.4 | 74.34 | FI-GE-42LM-OR-B-W3 | | | |
| S | 6 | 630 | M 12 x 1,5 | 4 | 11 | 31 | 39 | 13 | 17 | 17 | 35 | 2,93 | FI-GE-06SM-OR-B-W3 | | |
| | .24 | 9135 | M 12 x 1,5 | .16 | .43 | 1.22 | 1.54 | .51 | .67 | .67 | 25.9 | 6.44 | FI-GE-06SM-OR-B-W3 | | |
| | 8 | 630 | M 14 x 1,5 | 5 | 11 | 33 | 41 | 15 | 19 | 19 | 40 | 4,22 | FI-GE-08SM-OR-B-W3 | | |
| | .31 | 9135 | M 14 x 1,5 | .20 | .43 | 1.30 | 1.61 | .59 | .75 | .75 | 29.6 | 9.28 | FI-GE-08SM-OR-B-W3 | | |
| | 10 | 630 | M 16 x 1,5 | 7 | 12,5 | 35 | 44 | 15 | 22 | 22 | 55 | 6,11 | FI-GE-10SM-OR-B-W3 | | |
| | .39 | 9135 | M 16 x 1,5 | .28 | .49 | 1.38 | 1.73 | .59 | .87 | .87 | 40.7 | 13.43 | FI-GE-10SM-OR-B-W3 | | |
| | 12 | 630 | M 18 x 1,5 | 8 | 14 | 38,5 | 47,5 | 17 | 24 | 24 | 70 | 3,41 | FI-GE-12SM-OR-B-W3 | | |
| | .47 | 9135 | M 18 x 1,5 | .31 | .55 | 1.52 | 1.87 | .67 | .94 | .94 | 51.8 | 7.51 | FI-GE-12SM-OR-B-W3 | | |
| | 16 | 630 | M 22 x 1,5 | 12 | 15 | 42 | 52 | 18,5 | 27 | 30 | 100 | 6,37 | FI-GE-16SM-OR-B-W3 | | |
| | .63 | 9135 | M 22 x 1,5 | .47 | .59 | 1.65 | 2.05 | .73 | 1.06 | 1.18 | 74.0 | 14.01 | FI-GE-16SM-OR-B-W3 | | |
| | 20 | 400 | M 27 x 2 | 15 | 18,5 | 49,5 | 60,5 | 20,5 | 32 | 36 | 170 | 16,88 | FI-GE-20SM-OR-B-W3 | | |
| | .79 | 5800 | M 27 x 2 | .59 | .73 | 1.95 | 2.38 | .81 | 1.26 | 1.42 | 125.8 | 37.13 | FI-GE-20SM-OR-B-W3 | | |
| | 25 | 400 | M 33 x 2 | 20 | 18,5 | 53,5 | 65,5 | 23 | 41 | 46 | 310 | 27,42 | FI-GE-25SM-OR-B-W3 | | |
| | .98 | 5800 | M 33 x 2 | .79 | .73 | 2.11 | 2.58 | .91 | 1.61 | 1.81 | 229.4 | 60.33 | FI-GE-25SM-OR-B-W3 | | |
| | 30 | 400 | M 42 x 2 | 25 | 19 | 56 | 69 | 23,5 | 50 | 50 | 330 | 42,45 | FI-GE-30SM-OR-B-W3 | | |
| | 1.18 | 5800 | M 42 x 2 | .98 | .75 | 2.20 | 2.72 | .93 | 1.97 | 1.97 | 244.2 | 93.39 | FI-GE-30SM-OR-B-W3 | | |
| | 38 | 400 | M 48 x 2 | 32 | 21,5 | 63,5 | 78,5 | 26 | 55 | 60 | 420 | 58,60 | FI-GE-38SM-OR-B-W3 | | |
| | 1.50 | 5800 | M 48 x 2 | 1.26 | .85 | 2.50 | 3.09 | 1.02 | 2.17 | 2.36 | 310.8 | 128.92 | FI-GE-38SM-OR-B-W3 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to ISO 6149-2/-3

Port acc. to ISO 6149-1

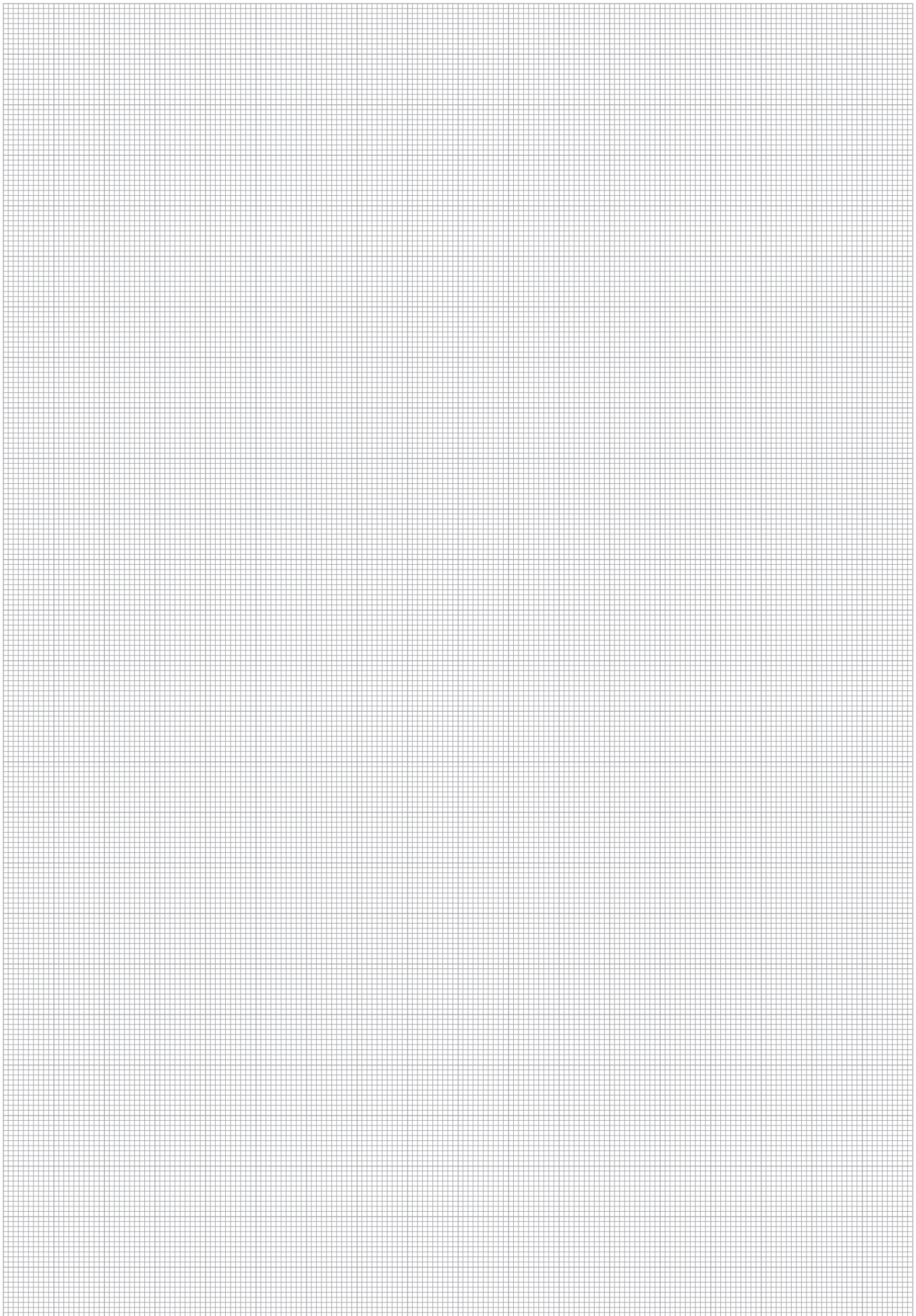
Torque recommendations for Steel mating material.

Standard seal material is NBR (Buna-N®).

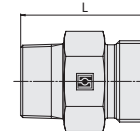
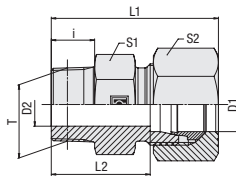
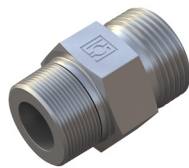
Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.





Straight Male Stud Fitting
Type FI-GE-...-Rk • Series LL / L



C

Whitworth Taper Pipe Thread (BSPT)

Ordering Codes

***FI-GE*-10*L*Rk*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **LL** Extra-Light Series (page 54)
L Light Series (page 54)
S Heavy Series (page 55)
- * Thread Type **Rk** Whitworth Taper Pipe Thread (BSPT)
- If required, please indicate special sizes, e.g. R1/8k!
- * Material Code **-W3** Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—** Fitting body only
-MS Fitting body supplied with cutting ring and union nut
-MSV Fitting body supplied with soft-sealing cutting ring and union nut

Connecting Parts

-  Cutting Ring
Type **FI-DS** Page 26
-  Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
-  Support Sleeve
Type **FI-VH** Page 28
-  STAUFF Form Ring
Type **FI-AR** Page 30
-  Union Nut
Type **FI-M** Page 31
-  37° Flared Tube Fitting Set
Type **FI-AB** Page 35

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.

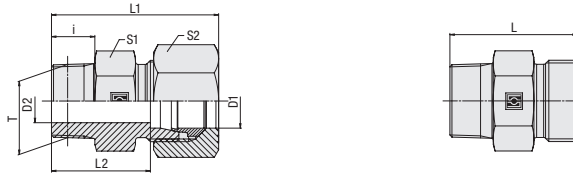
Male stud acc. to DIN 3852-2 (Form C)
Port acc. to DIN 3852-2 (Form Z)
Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
Please contact STAUFF prior to the assembly for further information.

| Series | Tube OD (mm/in) | PN (PB) (bar/psi) | Dimensions (mm/in) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | |
|--------|--------------------|-------------------------------------|--|--|-----------------------------|----------------|
| | D1 | | Thread T D2 i L L1 ¹ L2 S1 S2 | | | |
| LL | 4 | 100 | R 1/8 keg. 3 8 20 26 16 10 10 | 0,77 | FI-GE-04LLRk-W3 | |
| | .16 | 1450 | .12 .31 .79 1.02 .63 .39 .39 | 1.70 | | |
| | 6 | 100 | R 1/8 keg. 4,5 8 20 26 14,5 11 12 | 0,79 | FI-GE-06LLRk-W3 | |
| | .24 | 1450 | .18 .31 .79 1.02 .57 .43 .47 | 1.75 | | |
| | 8 | 100 | R 1/8 keg. 4,5 8 22 28 16,5 12 14 | 1,08 | FI-GE-08LLRk-W3 | |
| | .31 | 1450 | .18 .31 .87 1.10 .65 .47 .55 | 2.38 | | |
| | 8 | 100 | R 1/4 keg. 6 12 26 32 20,5 14 14 | 1,71 | FI-GE-08LLR1/4k-W3 | |
| | .31 | 1450 | .24 .47 1.02 1.26 .81 .55 .55 | 3.77 | | |
| | 10 | 100 | R 1/4 keg. 8 12 26 32 20,5 14 17 | 2,70 | FI-GE-10LLRk-W3 | |
| | .39 | 1450 | .31 .47 1.02 1.26 .81 .55 .67 | 5.94 | | |
| | L | 6 | 315 | R 1/8 keg. 4 8 22 30 15 12 14 | 1,11 | FI-GE-06LRk-W3 |
| | | .24 | 4568 | .16 .31 .87 1.18 .59 .47 .55 | 2.43 | |
| 6 | | 315 | R 1/4 keg. 4 12 27 35 20 14 14 | 1,99 | FI-GE-06LR1/4k-W3 | |
| .24 | | 4568 | .16 .47 1.06 1.38 .79 .55 .55 | 4.37 | | |
| 6 | | 315 | R 3/8 keg. 4 12 28 36 21 19 14 | 2,80 | FI-GE-06LR3/8k-W3 | |
| .24 | | 4568 | .16 .47 1.10 1.42 .83 .75 .55 | 6.17 | | |
| 6 | | 315 | R 1/2 keg. 4 14 30 38 23 22 14 | 5,19 | FI-GE-06LR1/2k-W3 | |
| .24 | | 4568 | .16 .55 1.18 1.50 .91 .87 .55 | 11.42 | | |
| 8 | | 315 | R 1/8 keg. 4 8 25 33 18 14 17 | 1,78 | FI-GE-08LR1/8k-W3 | |
| .31 | | 4568 | .16 .31 .98 1.30 .71 .55 .67 | 3.92 | | |
| 8 | | 315 | R 1/4 keg. 6 12 27 35 20 14 17 | 1,88 | FI-GE-08LRk-W3 | |
| .31 | | 4568 | .24 .47 1.06 1.38 .79 .55 .67 | 4.13 | | |
| 8 | | 315 | R 3/8 keg. 6 12 28 36 21 19 17 | 3,44 | FI-GE-08LR3/8k-W3 | |
| .31 | | 4568 | .24 .47 1.10 1.42 .83 .75 .67 | 7.58 | | |
| 8 | | 315 | R 1/2 keg. 6 14 30 38 23 24 17 | 5,02 | FI-GE-08LR1/2k-W3 | |
| .31 | | 4568 | .24 .55 1.18 1.50 .91 .94 .67 | 11.04 | | |
| 10 | | 315 | R 1/8 keg. 4 8 24 32 17 17 19 | 1,97 | FI-GE-10LR1/8k-W3 | |
| .39 | | 4568 | .16 .31 .94 1.26 .67 .67 .75 | 4.33 | | |
| 10 | | 315 | R 1/4 keg. 7 12 28 36 21 17 19 | 2,28 | FI-GE-10LRk-W3 | |
| .39 | | 4568 | .28 .47 1.10 1.42 .83 .67 .75 | 5.02 | | |
| 10 | | 315 | R 3/8 keg. 8 12 29 37 22 19 19 | 3,13 | FI-GE-10LR3/8k-W3 | |
| .39 | | 4568 | .31 .47 1.14 1.46 .87 .75 .75 | 6.88 | | |
| 10 | | 315 | R 1/2 keg. 8 14 30 38 23 24 19 | 1,22 | FI-GE-10LR1/2k-W3 | |
| .39 | | 4568 | .31 .55 1.18 1.50 .91 .94 .75 | 2.69 | | |
| 12 | | 315 | R 1/4 keg. 6 12 29 37 22 19 22 | 3,03 | FI-GE-12LR1/4k-W3 | |
| .47 | | 4568 | .24 .47 1.14 1.46 .87 .75 .87 | 6.67 | | |
| 12 | | 315 | R 3/8 keg. 9 12 29 37 22 19 22 | 3,28 | FI-GE-12LRk-W3 | |
| .47 | | 4568 | .35 .47 1.14 1.46 .87 .75 .87 | 7.22 | | |
| 12 | | 315 | R 1/2 keg. 10 14 31 39 24 22 22 | 5,02 | FI-GE-12LR1/2k-W3 | |
| .47 | | 4568 | .39 .55 1.22 1.54 .94 .87 .87 | 11.03 | | |
| 15 | | 315 | R 3/8 keg. 9 12 30 38 23 24 27 | 5,06 | FI-GE-15LR3/8k-W3 | |
| .59 | | 4568 | .35 .47 1.18 1.50 .91 .94 1.06 | 11.13 | | |
| 15 | | 315 | R 1/2 keg. 12 14 32 40 25 24 27 | 5,35 | FI-GE-15LRk-W3 | |
| .59 | | 4568 | .47 .55 1.26 1.57 .98 .94 1.06 | 11.76 | | |
| 15 | | 160 | R 3/4 keg. 12 17 36 44 29 27 27 | 16,48 | FI-GE-15LR3/4k-W3 | |
| .59 | | 2320 | .47 .67 1.42 1.73 1.14 1.06 1.06 | 36.26 | | |
| 18 | 315 | R 1/2 keg. 14 14 33 42 25 27 32 | 6,42 | FI-GE-18LRk-W3 | | |
| .71 | 4568 | .55 .55 1.30 1.65 1.00 1.06 1.26 | 14.13 | | | |
| 22 | PB160 | R 1/2 keg. 12 14 38 47 30,5 32 36 | 10,20 | FI-GE-22LR1/2k-W3 | | |
| .87 | PB2320 | .47 .55 1.50 1.85 1.20 1.26 1.42 | 22.43 | | | |
| 22 | PB160 | R 3/4 keg. 17 17 37 46 29,5 32 36 | 8,91 | FI-GE-22LRk-W3 | | |
| .87 | PB2320 | .67 .67 1.46 1.81 1.16 1.26 1.42 | 19.61 | | | |
| 28 | PB160 | R 3/4 keg. 18 16 38 47 31,5 41 41 | 14,59 | FI-GE-28LR3/4k-W3 | | |
| 1.10 | PB2320 | .71 .63 1.50 1.85 1.24 1.61 1.61 | 32.10 | | | |
| 28 | PB160 | R 1 keg. 23 18 42 51 34,5 41 41 | 16,49 | FI-GE-28LRk-W3 | | |
| 1.10 | PB2320 | .91 .71 1.65 2.01 1.36 1.61 1.61 | 36.28 | | | |
| 35 | PB160 | R 1 1/4 keg. 30 20 45 56 34,5 46 50 | 23,73 | FI-GE-35LRk-W3 | | |
| 1.38 | PB2320 | 1.18 .79 1.77 2.20 1.36 1.81 1.97 | 52.21 | | | |
| 42 | PB160 | R 1 1/2 keg. 36 22 49 61 38 55 60 | 33,09 | FI-GE-42LRk-W3 | | |
| 1.65 | PB2320 | 1.42 .87 1.93 2.40 1.50 2.17 2.36 | 72.81 | | | |



**Straight Male Stud Fitting
Type FI-GE-...-Rk • Series S**



Whitworth Taper Pipe Thread (BSPT)

| Series | Tube OD (mm/in) | PB (bar/PSI) | Dimensions (mm/in) | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|-----|-----|------|------|-----------------|------|------|--|-----------------------------|
| | | | Thread | T | D2 | i | L | L1 ¹ | L2 | S1 | | |
| S | 6 | 630 | R 1/4 keg. | 4 | 12 | 30 | 38 | 23 | 17 | 17 | 3,01 | FI-GE-06SRk-W3 |
| | .24 | 9135 | | .16 | .47 | 1.18 | 1.50 | .91 | .67 | .67 | 6.62 | |
| | 8 | 630 | R 1/4 keg. | 5 | 12 | 29 | 37 | 22 | 17 | 19 | 3,50 | FI-GE-08SRk-W3 |
| | .31 | 9135 | | .20 | .47 | 1.14 | 1.46 | .87 | .67 | .75 | 7.69 | |
| | 10 | 630 | R 3/8 keg. | 7 | 12 | 32 | 41 | 24,5 | 19 | 22 | 4,49 | FI-GE-10SRk-W3 |
| | .39 | 9135 | | .28 | .47 | 1.26 | 1.61 | .96 | .75 | .87 | 9.88 | |
| | 12 | 630 | R 3/8 keg. | 8 | 12 | 34 | 43 | 26,5 | 22 | 24 | 6,03 | FI-GE-12SRk-W3 |
| | .47 | 9135 | | .31 | .47 | 1.34 | 1.69 | 1.04 | .87 | .94 | 13.27 | |
| | 14 | 630 | R 1/2 keg. | 10 | 14 | 35 | 45 | 27 | 24 | 27 | 7,04 | FI-GE-14SRk-W3 |
| | .55 | 9135 | | .39 | .55 | 1.38 | 1.77 | 1.06 | .94 | 1.06 | 15.48 | |
| | 16 | 400 | R 1/2 keg. | 12 | 14 | 38 | 48 | 29,5 | 27 | 30 | 8,52 | FI-GE-16SRk-W3 |
| | .63 | 5800 | | .47 | .55 | 1.50 | 1.89 | 1.16 | 1.06 | 1.18 | 18.75 | |
| | 20 | 400 | R 3/4 keg. | 16 | 17 | 45,5 | 57 | 35 | 32 | 36 | 14,43 | FI-GE-20SRk-W3 |
| | .79 | 5800 | | .63 | .67 | 1.79 | 2.24 | 1.38 | 1.26 | 1.42 | 31.75 | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-2 (Form C)

Port acc. to DIN 3852-2 (Form Z)

Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes

***FI-GE*-10*L*Rk*-W3*-MS**

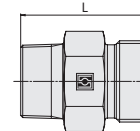
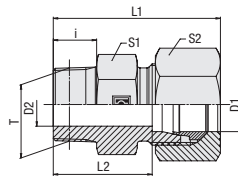
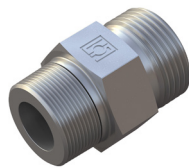
| | |
|---|--|
| * Straight Male Stud Fitting | FI-GE |
| * Outside Tube Diameter D1 (in mm) | -10 |
| * Series | Extra-Light Series (page 54) LL Light Series (page 54) L Heavy Series (page 55) S |
| * Thread Type | Whitworth Taper Pipe Thread (BSPT) Rk |
| If required, please indicate special sizes, e.g. R1/8k! | |
| * Material Code | Steel, zinc/nickel-plated -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | |
| * Assembling / Kitting | Fitting body only — |
| | Fitting body supplied with cutting ring and union nut -MS |
| | Fitting body supplied with soft-sealing cutting ring and union nut -MSV |

Connecting Parts

| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |



Straight Male Stud Fitting
Type FI-GE-...-Mk ▪ Series LL / L



C

Ordering Codes

***FI-GE*-10*L*Mk*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Extra-Light Series **LL**
 Light Series **L**
- * Thread Type Metric Taper Thread **Mk**
- If required, please indicate special sizes, e.g. M16x1.5k!
- * Material Code Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body only **—**
- Fitting body supplied with cutting ring and union nut **-MS**
- Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

Metric Taper Thread

| Series | Tube OD | | PN | Dimensions | | | | | | | | Weight (% _{lbs}) ca. per 100 ² | Ordering Codes ³ |
|--------|---------|---------|-----------------|-----------------|--------|------|------|------|------|-----------------|-------|---|-----------------------------|
| | (mm/in) | (mm/in) | | (mm/in) | Thread | T | D2 | i | L | L1 ¹ | L2 | | |
| LL | 4 | 100 | 100 | M 6 x 1 keg. | 2,5 | 8 | 20 | 26 | 16 | 9 | 10 | 0,50 | FI-GE-04LLM6x1k-W3 |
| | .16 | 1450 | | M 6 x 1 keg. | .10 | .31 | .79 | 1.02 | .63 | .35 | .39 | 1.09 | |
| | 4 | 100 | 100 | M 8 x 1 keg. | 3 | 8 | 20 | 26 | 16 | 10 | 10 | 0,63 | FI-GE-04LLMk-W3 |
| | .16 | 1450 | | M 8 x 1 keg. | .12 | .31 | .79 | 1.02 | .63 | .39 | .39 | 1.39 | |
| | 4 | 100 | 100 | M 10 x 1 keg. | 3 | 8 | 20 | 26 | 16 | 11 | 10 | 0,85 | FI-GE-04LLM10x1k-W3 |
| | .16 | 1450 | | M 10 x 1 keg. | .12 | .31 | .79 | 1.02 | .63 | .43 | .39 | 1.87 | |
| | 6 | 100 | 100 | M 6 x 1 keg. | 2 | 8 | 20 | 26 | 14,5 | 11 | 12 | 0,68 | FI-GE-06LLM6x1k-W3 |
| | .24 | 1450 | | M 6 x 1 keg. | .08 | .31 | .79 | 1.02 | .57 | .43 | .47 | 1.50 | |
| | 6 | 100 | 100 | M 8 x 1 keg. | 3 | 8 | 20 | 26 | 14,5 | 11 | 12 | 0,75 | FI-GE-06LLM8x1k-W3 |
| | .24 | 1450 | | M 8 x 1 keg. | .12 | .31 | .79 | 1.02 | .57 | .43 | .47 | 1.66 | |
| | 6 | 100 | 100 | M 10 x 1 keg. | 4 | 8 | 20 | 26 | 14,5 | 11 | 12 | 0,85 | FI-GE-06LLMk-W3 |
| | .24 | 1450 | | M 10 x 1 keg. | .16 | .31 | .79 | 1.02 | .57 | .43 | .47 | 1.88 | |
| 8 | 100 | 100 | M 8 x 1 keg. | 3,5 | 8 | 22 | 28 | 16,5 | 12 | 14 | 1,29 | FI-GE-08LLM8x1k-W3 | |
| .31 | 1450 | | M 8 x 1 keg. | .14 | .31 | .87 | 1.10 | .65 | .47 | .55 | 2.83 | | |
| 8 | 100 | 100 | M 10 x 1 keg. | 6 | 8 | 22 | 28 | 16,5 | 12 | 14 | 0,98 | FI-GE-08LLMk-W3 | |
| .31 | 1450 | | M 10 x 1 keg. | .24 | .31 | .87 | 1.10 | .65 | .47 | .55 | 2.15 | | |
| L | 6 | 315 | 4568 | M 10 x 1 keg. | 4 | 8 | 23 | 31 | 16 | 14 | 14 | 2,12 | FI-GE-06LMk-W3 |
| | .24 | 4568 | | M 10 x 1 keg. | .16 | .31 | .91 | 1.22 | .63 | .55 | .55 | 4.67 | |
| | 6 | 315 | 4568 | M 12 x 1,5 keg. | 4 | 12 | 27 | 35 | 20 | 14 | 14 | 2,26 | FI-GE-06LM12x1.5k-W3 |
| | .24 | 4568 | | M 12 x 1,5 keg. | .16 | .47 | 1.06 | 1.38 | .79 | .55 | .55 | 4.98 | |
| | 8 | 315 | 4568 | M 12 x 1,5 keg. | 6 | 12 | 27 | 35 | 20 | 14 | 17 | 1,74 | FI-GE-08LMk-W3 |
| | .31 | 4568 | | M 12 x 1,5 keg. | .24 | .47 | 1.06 | 1.38 | .79 | .55 | .67 | 3.83 | |
| | 8 | 315 | 4568 | M 14 x 1,5 keg. | 6 | 12 | 27 | 35 | 20 | 17 | 17 | 3,11 | FI-GE-08LM14x1.5k-W3 |
| | .31 | 4568 | | M 14 x 1,5 keg. | .24 | .47 | 1.06 | 1.38 | .79 | .67 | .67 | 6.83 | |
| | 10 | 315 | 4568 | M 14 x 1,5 keg. | 7 | 12 | 28 | 36 | 21 | 17 | 19 | 2,51 | FI-GE-10LMk-W3 |
| | .39 | 4568 | | M 14 x 1,5 keg. | .28 | .47 | 1.10 | 1.42 | .83 | .67 | .75 | 5.53 | |
| | 10 | 315 | 4568 | M 16 x 1,5 keg. | 8 | 12 | 28 | 36 | 21 | 17 | 19 | 4,05 | FI-GE-10LM16x1.5k-W3 |
| | .39 | 4568 | | M 16 x 1,5 keg. | .31 | .47 | 1.10 | 1.42 | .83 | .67 | .75 | 8.91 | |
| | 12 | 315 | 4568 | M 16 x 1,5 keg. | 9 | 12 | 29 | 37 | 22 | 19 | 22 | 3,18 | FI-GE-12LMk-W3 |
| | .47 | 4568 | | M 16 x 1,5 keg. | .35 | .47 | 1.14 | 1.46 | .87 | .75 | .87 | 6.99 | |
| | 12 | 315 | 4568 | M 18 x 1,5 keg. | 10 | 12 | 29 | 37 | 22 | 19 | 22 | 4,90 | FI-GE-12LM18x1.5k-W3 |
| | .47 | 4568 | | M 18 x 1,5 keg. | .39 | .47 | 1.14 | 1.46 | .87 | .75 | .87 | 10.78 | |
| | 15 | 315 | 4568 | M 18 x 1,5 keg. | 11 | 12 | 30 | 41 | 23 | 24 | 27 | 4,73 | FI-GE-15LMk-W3 |
| | .59 | 4568 | | M 18 x 1,5 keg. | .43 | .47 | 1.18 | 1.61 | .91 | .94 | 1.06 | 10.41 | |
| 18 | 315 | 4568 | M 22 x 1,5 keg. | 14 | 14 | 33 | 42 | 25,5 | 27 | 32 | 7,02 | FI-GE-18LMk-W3 | |
| .71 | 4568 | | M 22 x 1,5 keg. | .55 | .55 | 1.30 | 1.65 | 1.00 | 1.06 | 1.26 | 15.44 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-1 (Form C)

Port acc. to DIN 3852-1 (Form Z)

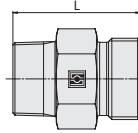
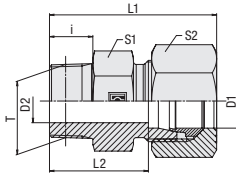
Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.



Straight Male Stud Fitting
Type FI-GE-...-N • Series LL / L



NPT Thread

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|------|------|------|-----------------|------|-------|--|-----------------------------|
| | | | Thread | T | D2 | i | L | L1 ¹ | L2 | S1 | | |
| LL | 4 | 100 | 1/8 NPT | 3 | 10 | 22 | 28 | 18 | 11 | 10 | 0,98 | FI-GE-04LL1/8N-W3 |
| | .16 | 1450 | | .12 | .39 | .87 | 1.10 | .71 | .43 | .39 | 2.15 | |
| | 6 | 100 | 1/8 NPT | 4,5 | 10 | 22 | 28 | 16,5 | 11 | 12 | 0,90 | FI-GE-06LL1/8N-W3 |
| | .24 | 1450 | | .18 | .39 | .87 | 1.10 | .65 | .43 | .47 | 1.97 | |
| LL | 8 | 100 | 1/8 NPT | 5 | 10 | 24 | 30 | 18,5 | 12 | 14 | 1,16 | FI-GE-08LL1/8N-W3 |
| | .31 | 1450 | | .20 | .39 | .94 | 1.18 | .73 | .47 | .55 | 2.55 | |
| L | 6 | 315 | 1/8 NPT | 4 | 10 | 24 | 32 | 17 | 12 | 14 | 1,21 | FI-GE-06L1/8N-W3 |
| | .24 | 4568 | | .16 | .39 | .94 | 1.26 | .67 | .47 | .55 | 2.66 | |
| | 6 | 315 | 1/4 NPT | 4 | 15,5 | 30 | 38 | 23 | 17 | 14 | 2,63 | FI-GE-06L1/4N-W3 |
| | .24 | 4568 | | .16 | .61 | 1.18 | 1.50 | .91 | .67 | .55 | 5.79 | |
| | 6 | 315 | 3/8 NPT | 4 | 15,5 | 31 | 39 | 24 | 19 | 14 | 4,01 | FI-GE-06L3/8N-W3 |
| | .24 | 4568 | | .16 | .61 | 1.22 | 1.54 | .94 | .75 | .55 | 8.82 | |
| | 6 | 315 | 1/2 NPT | 4 | 20 | 36 | 44 | 29 | 22 | 14 | 5,62 | FI-GE-06L1/2N-W3 |
| | .24 | 4568 | | .16 | .79 | 1.42 | 1.73 | 1.14 | .87 | .55 | 12.37 | |
| | 8 | 315 | 1/8 NPT | 4 | 10 | 25 | 33 | 18 | 14 | 17 | 1,65 | FI-GE-08L1/8N-W3 |
| | .31 | 4568 | | .16 | .39 | .98 | 1.30 | .71 | .55 | .67 | 3.63 | |
| | 8 | 315 | 1/4 NPT | 6 | 15 | 30 | 38 | 23 | 17 | 17 | 2,49 | FI-GE-08L1/4N-W3 |
| | .31 | 4568 | | .24 | .59 | 1.18 | 1.50 | .91 | .67 | .67 | 5.48 | |
| | 8 | 315 | 3/8 NPT | 6 | 15,5 | 30 | 38 | 23 | 19 | 17 | 3,70 | FI-GE-08L3/8N-W3 |
| | .31 | 4568 | | .24 | .61 | 1.18 | 1.50 | .91 | .75 | .67 | 8.14 | |
| | 8 | 315 | 1/2 NPT | 6 | 20 | 36 | 44 | 29 | 22 | 17 | 6,78 | FI-GE-08L1/2N-W3 |
| | .31 | 4568 | | .24 | .79 | 1.42 | 1.73 | 1.14 | .87 | .67 | 14.91 | |
| | 10 | 315 | 1/8 NPT | 4 | 10 | 25 | 33 | 18 | 17 | 19 | 1,90 | FI-GE-10L1/8N-W3 |
| | .39 | 4568 | | .16 | .39 | .98 | 1.30 | .71 | .67 | .75 | 4.18 | |
| | 10 | 315 | 1/4 NPT | 7 | 15 | 31 | 39 | 24 | 17 | 19 | 2,53 | FI-GE-10L1/4N-W3 |
| | .39 | 4568 | | .28 | .59 | 1.22 | 1.54 | .94 | .67 | .75 | 5.57 | |
| | 10 | 315 | 3/8 NPT | 7 | 15 | 32 | 40 | 25 | 19 | 19 | 3,97 | FI-GE-10L3/8N-W3 |
| | .39 | 4568 | | .28 | .59 | 1.26 | 1.57 | .98 | .75 | .75 | 8.73 | |
| | 10 | 315 | 1/2 NPT | 7 | 20 | 37 | 45 | 30 | 22 | 19 | 6,99 | FI-GE-10L1/2N-W3 |
| | .39 | 4568 | | .28 | .79 | 1.46 | 1.77 | 1.18 | .87 | .75 | 15.39 | |
| | 10 | 315 | 3/4 NPT | 8 | 20 | 38 | 46 | 31 | 27 | 19 | 5,67 | FI-GE-10L3/4N-W3 |
| | .39 | 4568 | | .31 | .79 | 1.50 | 1.81 | 1.22 | 1.06 | .75 | 12.47 | |
| | 12 | 315 | 1/8 NPT | 4 | 10 | 26 | 34 | 19 | 19 | 22 | 2,48 | FI-GE-12L1/8N-W3 |
| | .47 | 4568 | | .16 | .39 | 1.02 | 1.34 | .75 | .75 | .87 | 5.45 | |
| 12 | 315 | 1/4 NPT | 7 | 15 | 32 | 40 | 25 | 19 | 22 | 3,21 | FI-GE-12L1/4N-W3 | |
| .47 | 4568 | | .28 | .59 | 1.26 | 1.57 | .98 | .75 | .87 | 7.05 | | |
| 12 | 315 | 3/8 NPT | 8 | 15 | 32 | 40 | 25 | 19 | 22 | 3,95 | FI-GE-12L3/8N-W3 | |
| .47 | 4568 | | .31 | .59 | 1.26 | 1.57 | .98 | .75 | .87 | 8.69 | | |
| 12 | 315 | 1/2 NPT | 10 | 20 | 37 | 45 | 30 | 24 | 22 | 6,48 | FI-GE-12L1/2N-W3 | |
| .47 | 4568 | | .39 | .79 | 1.46 | 1.77 | 1.18 | .94 | .87 | 14.25 | | |
| 12 | 315 | 3/4 NPT | 8 | 20 | 38 | 46 | 31 | 27 | 22 | 10,93 | FI-GE-12L3/4N-W3 | |
| .47 | 4568 | | .31 | .79 | 1.50 | 1.81 | 1.22 | 1.06 | .87 | 24.04 | | |
| 15 | 315 | 1/4 NPT | 7 | 15,5 | 33 | 41 | 26 | 24 | 27 | 4,72 | FI-GE-15L1/4N-W3 | |
| .59 | 4568 | | .28 | .61 | 1.30 | 1.61 | 1.02 | .94 | 1.06 | 10.38 | | |
| 15 | 315 | 3/8 NPT | 11 | 15,5 | 38 | 46 | 31 | 24 | 27 | 5,12 | FI-GE-15L3/8N-W3 | |
| .59 | 4568 | | .43 | .61 | 1.50 | 1.81 | 1.22 | .94 | 1.06 | 11.26 | | |
| 15 | 315 | 1/2 NPT | 12 | 20 | 38 | 46 | 31 | 24 | 27 | 6,44 | FI-GE-15L1/2N-W3 | |
| .59 | 4568 | | .47 | .79 | 1.50 | 1.81 | 1.22 | .94 | 1.06 | 14.16 | | |
| 15 | 315 | 3/4 NPT | 12 | 20 | 40 | 48 | 33 | 27 | 27 | 10,60 | FI-GE-15L3/4N-W3 | |
| .59 | 4568 | | .47 | .79 | 1.57 | 1.89 | 1.30 | 1.06 | 1.06 | 23.31 | | |

Ordering Codes

***FI-GE*-10*L*1/4*N*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Extra-Light Series (page 57) **LL**
Light Series (pages 57/58) **L**
Heavy Series (page 59) **S**
- * Thread Size acc. to dimension table **1/4**
Please always indicate thread sizes, e.g. 1/4!
- * Thread Type NPT Thread **N**
- * Material Code Steel, zinc/nickel-plated **-W3**
Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body only **—**
Fitting body supplied with cutting ring and union nut **-MS**
Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to ANSI/ASME B1.20.1-1983

Port acc. to ANSI/ASME B1.20.1-1983

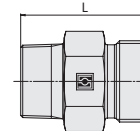
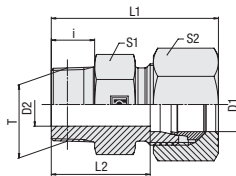
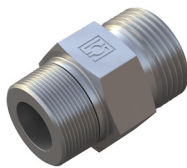
Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.



Straight Male Stud Fitting
Type FI-GE-...-N • Series L



C

NPT Thread

Ordering Codes

***FI-GE*-10*L*1/4*N*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **LL**
 Extra-Light Series (page 57)
 Light Series (pages 57/58) **L**
 Heavy Series (page 59) **S**
- * Thread Size **1/4**
 acc. to dimension table
 Please always indicate thread sizes, e.g. 1/4!
- * Thread Type **N**
 NPT Thread
- * Material Code **-W3**
 Steel, zinc/nickel-plated
 Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
 Fitting body only
 Fitting body supplied with cutting ring and union nut **-MS**
 Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|------|------|------|-----------------|------|-------|--|-----------------------------|
| | | | Thread | T | D2 | i | L | L1 ¹ | L2 | S1 | | |
| L | 18 | 315 | 3/8 NPT | 8 | 15,5 | 34 | 43 | 26,5 | 27 | 32 | 6,78 | FI-GE-18L3/8N-W3 |
| | .71 | 4568 | | .31 | .61 | 1.34 | 1.69 | 1.04 | 1.06 | 1.26 | 14.92 | |
| | 18 | 315 | 1/2 NPT | 12 | 20 | 39 | 48 | 31,5 | 27 | 32 | 8,10 | FI-GE-18L1/2N-W3 |
| | .71 | 4568 | | .47 | .79 | 1.54 | 1.89 | 1.24 | 1.06 | 1.26 | 17.82 | |
| | 18 | 315 | 3/4 NPT | 15 | 20 | 39 | 48 | 31,5 | 27 | 32 | 10,51 | FI-GE-18L3/4N-W3 |
| | .71 | 4568 | | .59 | .79 | 1.54 | 1.89 | 1.24 | 1.06 | 1.26 | 23.12 | |
| | 18 | 315 | 1 NPT | 15 | 25 | 45 | 54 | 37,5 | 36 | 32 | 16,85 | FI-GE-18L1N-W3 |
| | .71 | 4568 | | .59 | .98 | 1.77 | 2.13 | 1.48 | 1.42 | 1.26 | 37.08 | |
| | 22 | 160 | 1/2 NPT | 14 | 20 | 41 | 50 | 33,5 | 32 | 36 | 9,26 | FI-GE-22L1/2N-W3 |
| | .87 | 2320 | | .55 | .79 | 1.61 | 1.97 | 1.32 | 1.26 | 1.42 | 20.37 | |
| | 22 | 160 | 3/4 NPT | 16 | 20 | 41 | 50 | 33,5 | 32 | 36 | 11,07 | FI-GE-22L3/4N-W3 |
| | .87 | 2320 | | .63 | .79 | 1.61 | 1.97 | 1.32 | 1.26 | 1.42 | 24.35 | |
| | 22 | 160 | 1 NPT | 19 | 25 | 47 | 56 | 39,5 | 36 | 36 | 18,05 | FI-GE-22L1N-W3 |
| | .87 | 2320 | | .75 | .98 | 1.85 | 2.20 | 1.56 | 1.42 | 1.42 | 39.70 | |
| | 28 | 160 | 3/4 NPT | 18 | 20 | 42 | 51 | 34,5 | 41 | 41 | 18,00 | FI-GE-28L3/4N-W3 |
| | 1.10 | 2320 | | .71 | .79 | 1.65 | 2.01 | 1.36 | 1.61 | 1.61 | 39.60 | |
| | 28 | 160 | 1 NPT | 21 | 25 | 47 | 56 | 39,5 | 41 | 41 | 19,89 | FI-GE-28L1N-W3 |
| | 1.10 | 2320 | | .83 | .98 | 1.85 | 2.20 | 1.56 | 1.61 | 1.61 | 43.76 | |
| | 28 | 160 | 1 1/4 NPT | 24 | 26 | 49 | 58 | 41,5 | 46 | 41 | 27,00 | FI-GE-28L1-1/4N-W3 |
| | 1.10 | 2320 | | .94 | 1.02 | 1.93 | 2.28 | 1.63 | 1.81 | 1.61 | 59.40 | |
| | 35 | 160 | 1 1/4 NPT | 28 | 26 | 51 | 62 | 40,5 | 46 | 50 | 39,59 | FI-GE-35L1-1/4N-W3 |
| | 1.38 | 2320 | | 1.10 | 1.02 | 2.01 | 2.44 | 1.59 | 1.81 | 1.97 | 87.09 | |
| | 42 | 160 | 1 1/4 NPT | 28 | 26 | 53 | 65 | 42 | 55 | 60 | 35,36 | FI-GE-42L1-1/4N-W3 |
| | 1.65 | 2320 | | 1.10 | 1.02 | 2.09 | 2.56 | 1.65 | 2.17 | 2.36 | 77.79 | |
| 42 | 160 | 1 1/2 NPT | 36 | 26 | 53 | 65 | 42 | 55 | 60 | 35,36 | FI-GE-42L1-1/2N-W3 | |
| 1.65 | 2320 | | 1.42 | 1.02 | 2.09 | 2.56 | 1.65 | 2.17 | 2.36 | 77.79 | | |

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.

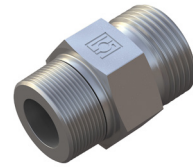
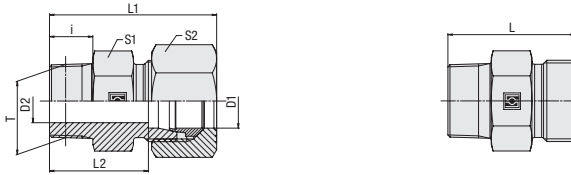
Male stud acc. to ANSI/ASME B1.20.1-1983
 Port acc. to ANSI/ASME B1.20.1-1983

Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
 Please contact STAUFF prior to the assembly for further information.



Straight Male Stud Fitting
Type FI-GE-...-N • Series S



NPT Thread

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|------|------|------|-----------------|------|------|--------|--|-----------------------------|
| | | | Thread | T | D2 | i | L | L1 ¹ | L2 | S1 | S2 | | |
| S | 6 | 630 | 1/8 NPT | 4 | 10 | 28 | 36 | 21 | 14 | 17 | 2,30 | FI-GE-06S1/8N-W3 | |
| | .24 | 9135 | | .16 | .39 | 1.10 | 1.42 | .83 | .55 | .67 | 5.06 | | |
| 6 | 630 | | 1/4 NPT | 4 | 15 | 35 | 43 | 28 | 17 | 17 | 3,71 | FI-GE-06S1/4N-W3 | |
| | .24 | 9135 | | .16 | .59 | 1.38 | 1.69 | 1.10 | .67 | .67 | 8.17 | | |
| 6 | 630 | | 3/8 NPT | 4 | 15,5 | 33 | 41 | 26 | 19 | 17 | 4,50 | FI-GE-06S3/8N-W3 | |
| | .24 | 9135 | | .16 | .61 | 1.30 | 1.61 | 1.02 | .75 | .67 | 9.91 | | |
| 8 | 630 | | 1/8 NPT | 4 | 10 | 29,5 | 37,5 | 22,5 | 17 | 19 | 3,20 | FI-GE-08S1/8N-W3 | |
| | .31 | 9135 | | .16 | .39 | 1.16 | 1.48 | .89 | .67 | .75 | 7.04 | | |
| 8 | 630 | | 1/4 NPT | 5 | 15 | 35 | 43 | 28 | 17 | 19 | 3,81 | FI-GE-08S1/4N-W3 | |
| | .31 | 9135 | | .20 | .59 | 1.38 | 1.69 | 1.10 | .67 | .75 | 8.37 | | |
| 8 | 630 | | 3/8 NPT | 5 | 15,5 | 36 | 44 | 29 | 19 | 19 | 5,31 | FI-GE-08S3/8N-W3 | |
| | .31 | 9135 | | .20 | .61 | 1.42 | 1.73 | 1.14 | .75 | .75 | 11.68 | | |
| 8 | 630 | | 1/2 NPT | 5 | 20 | 40 | 48 | 33 | 22 | 19 | 8,17 | FI-GE-08S1/2N-W3 | |
| | .31 | 9135 | | .20 | .79 | 1.57 | 1.89 | 1.30 | .87 | .75 | 17.97 | | |
| 10 | 630 | | 1/4 NPT | 5 | 15 | 35 | 44 | 27,5 | 19 | 22 | 4,36 | FI-GE-10S1/4N-W3 | |
| | .39 | 9135 | | .20 | .59 | 1.38 | 1.73 | 1.08 | .75 | .87 | 9.59 | | |
| 10 | 630 | | 3/8 NPT | 7 | 15 | 35 | 44 | 27,5 | 19 | 22 | 4,95 | FI-GE-10S3/8N-W3 | |
| | .39 | 9135 | | .28 | .59 | 1.38 | 1.73 | 1.08 | .75 | .87 | 10.89 | | |
| 10 | 630 | | 1/2 NPT | 7 | 20 | 38 | 47 | 30,5 | 22 | 22 | 7,32 | FI-GE-10S1/2N-W3 | |
| | .39 | 9135 | | .28 | .79 | 1.50 | 1.85 | 1.20 | .87 | .87 | 16.11 | | |
| 12 | 630 | | 1/4 NPT | 5 | 15,5 | 37 | 46 | 29,5 | 22 | 24 | 4,84 | FI-GE-12S1/4N-W3 | |
| | .47 | 9135 | | .20 | .61 | 1.46 | 1.81 | 1.16 | .87 | .94 | 10.66 | | |
| 12 | 630 | | 3/8 NPT | 8 | 15 | 37 | 46 | 29,5 | 22 | 24 | 6,21 | FI-GE-12S3/8N-W3 | |
| | .47 | 9135 | | .31 | .59 | 1.46 | 1.81 | 1.16 | .87 | .94 | 13.67 | | |
| 12 | 630 | | 1/2 NPT | 8 | 20 | 42 | 51 | 34,5 | 22 | 24 | 8,52 | FI-GE-12S1/2N-W3 | |
| | .47 | 9135 | | .31 | .79 | 1.65 | 2.01 | 1.36 | .87 | .94 | 18.74 | | |
| 12 | 630 | | 3/4 NPT | 8 | 20 | 44 | 53 | 36,5 | 30 | 24 | 12,38 | FI-GE-12S3/4N-W3 | |
| | .47 | 9135 | | .31 | .79 | 1.73 | 2.09 | 1.44 | 1.18 | .94 | 27.23 | | |
| 14 | 630 | | 3/8 NPT | 8 | 15,5 | 39 | 49 | 31 | 24 | 27 | 7,32 | FI-GE-14S3/8N-W3 | |
| | .55 | 9135 | | .31 | .61 | 1.54 | 1.93 | 1.22 | .94 | 1.06 | 16.11 | | |
| 14 | 630 | | 1/2 NPT | 10 | 20 | 44 | 54 | 36 | 24 | 27 | 6,76 | FI-GE-14S1/2N-W3 | |
| | .55 | 9135 | | .39 | .79 | 1.73 | 2.13 | 1.42 | .94 | 1.06 | 14.88 | | |
| 16 | 400 | | 3/8 NPT | 8 | 15 | 39 | 49 | 30,5 | 27 | 30 | 8,66 | FI-GE-16S3/8N-W3 | |
| | .63 | 5800 | | .31 | .59 | 1.54 | 1.93 | 1.20 | 1.06 | 1.18 | 19.06 | | |
| 16 | 400 | | 1/2 NPT | 12 | 20 | 44 | 54 | 35,5 | 27 | 30 | 4,42 | FI-GE-16S1/2N-W3 | |
| | .63 | 5800 | | .47 | .79 | 1.73 | 2.13 | 1.40 | 1.06 | 1.18 | 9.72 | | |
| 16 | 400 | | 3/4 NPT | 12 | 20 | 45 | 55 | 36,5 | 30 | 30 | 13,97 | FI-GE-16S3/4N-W3 | |
| | .63 | 5800 | | .47 | .79 | 1.77 | 2.17 | 1.44 | 1.18 | 1.18 | 30.73 | | |
| 20 | 400 | | 1/2 NPT | 12 | 20 | 48 | 59 | 37,5 | 32 | 36 | 12,18 | FI-GE-20S1/2N-W3 | |
| | .79 | 5800 | | .47 | .79 | 1.89 | 2.32 | 1.48 | 1.26 | 1.42 | 26.80 | | |
| 20 | 400 | | 3/4 NPT | 16 | 22 | 48 | 59 | 37,5 | 32 | 36 | 15,05 | FI-GE-20S3/4N-W3 | |
| | .79 | 5800 | | .63 | .87 | 1.89 | 2.32 | 1.48 | 1.26 | 1.42 | 33.12 | | |
| 20 | 400 | | 1 NPT | 16 | 25 | 55 | 66 | 44,5 | 36 | 36 | 25,37 | FI-GE-20S1N-W3 | |
| | .79 | 5800 | | .63 | .98 | 2.17 | 2.60 | 1.75 | 1.42 | 1.42 | 55.81 | | |
| 25 | 400 | | 1/2 NPT | 20 | 25 | 57 | 59 | 45 | 41 | 46 | 30,60 | FI-GE-25S1/2N-W3 | |
| | .98 | 5800 | | .79 | .98 | 2.24 | 2.32 | 1.77 | 1.61 | 1.81 | 67.32 | | |
| 25 | 400 | | 3/4 NPT | 16 | 20 | 52 | 64 | 40 | 41 | 46 | 23,86 | FI-GE-25S3/4N-W3 | |
| | .98 | 5800 | | .63 | .79 | 2.05 | 2.52 | 1.57 | 1.61 | 1.81 | 52.48 | | |
| 25 | 400 | | 1 NPT | 20 | 25 | 57 | 69 | 45 | 41 | 46 | 28,19 | FI-GE-25S1N-W3 | |
| | .98 | 5800 | | .79 | .98 | 2.24 | 2.72 | 1.77 | 1.61 | 1.81 | 62.01 | | |
| 25 | 400 | | 1 1/4 NPT | 20 | 26 | 58 | 70 | 46 | 46 | 46 | 47,00 | FI-GE-25S1-1/4N-W3 | |
| | .98 | 5800 | | .79 | 1.02 | 2.28 | 2.76 | 1.81 | 1.81 | 1.81 | 103.40 | | |
| 30 | 400 | | 1 NPT | 20 | 25 | 59 | 72 | 45,5 | 46 | 50 | 34,70 | FI-GE-30S1N-W3 | |
| | 1.18 | 5800 | | .79 | .98 | 2.32 | 2.83 | 1.79 | 1.81 | 1.97 | 76.34 | | |
| 30 | 400 | | 1 1/4 NPT | 25 | 26 | 60 | 73 | 46,5 | 46 | 50 | 36,50 | FI-GE-30S1-1/4N-W3 | |
| | 1.18 | 5800 | | .98 | 1.02 | 2.36 | 2.87 | 1.83 | 1.81 | 1.97 | 80.30 | | |
| 30 | 400 | | 1 1/2 NPT | 25 | 26 | 60 | 73 | 46,5 | 50 | 50 | 36,50 | FI-GE-30S1-1/2N-W3 | |
| | 1.18 | 5800 | | .98 | 1.02 | 2.36 | 2.87 | 1.83 | 1.97 | 1.97 | 80.30 | | |
| 38 | 315 | | 1 1/4 NPT | 25 | 26 | 65 | 80 | 49 | 55 | 60 | 50,70 | FI-GE-38S1-1/4N-W3 | |
| | 1.50 | 4568 | | .98 | 1.02 | 2.56 | 3.15 | 1.93 | 2.17 | 2.36 | 111.54 | | |
| 38 | 315 | | 1 1/2 NPT | 32 | 26 | 65 | 80 | 49 | 55 | 60 | 50,70 | FI-GE-38S1-1/2N-W3 | |
| | 1.50 | 4568 | | 1.26 | 1.02 | 2.56 | 3.15 | 1.93 | 2.17 | 2.36 | 111.54 | | |

Ordering Codes

FI-GE-10*L*1/4*N*-W3*-MS

| | |
|---|---|
| * Straight Male Stud Fitting | FI-GE |
| * Outside Tube Diameter D1 (in mm) | -10 |
| * Series | Extra-Light Series (page 57) LL Light Series (pages 57/58) L Heavy Series (page 59) S |
| * Thread Size | acc. to dimension table 1/4 |
| Please always indicate thread sizes, e.g. 1/4! | |
| * Thread Type | NPT Thread N |
| * Material Code | Steel, zinc/nickel-plated -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | |
| * Assembling / Kitting | Fitting body only — |
| | Fitting body supplied with cutting ring and union nut -MS |
| | Fitting body supplied with soft-sealing cutting ring and union nut -MSV |

Connecting Parts

| | | |
|--|---|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

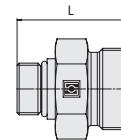
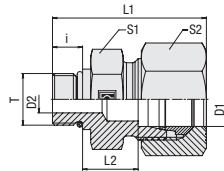
¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.

Male stud acc. to ANSI/ASME B1.20.1-1983
Port acc. to ANSI/ASME B1.20.1-1983
Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
Please contact STAUFF prior to the assembly for further information.



Straight Male Stud Fitting
Type FI-GE-...-U • Series L



C

Ordering Codes

***FI-GE*-10*L*3/4*U*-B*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
Light Series (page 60)
S
Heavy Series (page 61)
- * Thread Size **3/4**
acc. to dimension table
Please always indicate thread sizes, e.g. 3/4!
- * Thread Type **U**
UN/UNF Thread with O-Ring
- * Seal Material **-B**
NBR (Buna-N®)
-V
FKM (Viton®)
-E
EPDM
- * Material Code **-W3**
Steel, zinc/nickel-plated
Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
Fitting body only
Fitting body supplied with cutting ring and union nut **-MS**
Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

Spare Parts / Accessories

- O-Ring
Type **O-RING** Page 207

UN/UNF Thread

O-Ring

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | Torque (N·m)/(ft·lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|----------|------|------|------|-----------------|------|------|-------|----------|-------------------------|--|-----------------------------|
| | | | D1 | Thread T | D2 | i | L | L1 ¹ | L2 | S1 | S2 | Thread T | | | |
| L | 6 | 400 | 7/16-20 UNF | 4 | 9 | 26 | 34 | 10 | 17 | 14 | 18 | 2,08 | FI-GE-06L7/16U-B-W3 | | |
| | .24 | 5800 | | .16 | .35 | 1.02 | 1.34 | .39 | .67 | .55 | 13.3 | 4.57 | | | |
| | 6 | 400 | 9/16-18 UNF | 4 | 10 | 27 | 35 | 10 | 19 | 14 | 30 | 2,47 | FI-GE-06L9/16U-B-W3 | | |
| | .24 | 5800 | | .16 | .39 | 1.06 | 1.38 | .39 | .75 | .55 | 22.2 | 5.44 | | | |
| | 8 | 400 | 7/16-20 UNF | 6 | 9 | 26 | 34 | 10 | 17 | 17 | 18 | 2,18 | FI-GE-08L7/16U-B-W3 | | |
| | .31 | 5800 | | .24 | .35 | 1.02 | 1.34 | .39 | .67 | .67 | 13.3 | 4.79 | | | |
| | 8 | 400 | 9/16-18 UNF | 6 | 10 | 27 | 35 | 10 | 19 | 17 | 30 | 2,76 | FI-GE-08L9/16U-B-W3 | | |
| | .31 | 5800 | | .24 | .39 | 1.06 | 1.38 | .39 | .75 | .67 | 22.2 | 6.06 | | | |
| | 10 | 400 | 7/16-20 UNF | 4 | 9 | 27 | 35 | 11 | 17 | 19 | 18 | 2,17 | FI-GE-10L7/16U-B-W3 | | |
| | .39 | 5800 | | .16 | .35 | 1.06 | 1.38 | .43 | .67 | .75 | 13.3 | 4.78 | | | |
| | 10 | 400 | 9/16-18 UNF | 7 | 10 | 28 | 36 | 11 | 19 | 19 | 30 | 2,70 | FI-GE-10L9/16U-B-W3 | | |
| | .39 | 5800 | | .28 | .39 | 1.10 | 1.42 | .43 | .75 | .75 | 22.2 | 5.94 | | | |
| | 10 | 400 | 3/4-16 UNF | 8 | 11 | 31 | 39 | 13 | 24 | 19 | 50 | 5,21 | FI-GE-10L3/4U-B-W3 | | |
| | .39 | 5800 | | .31 | .43 | 1.22 | 1.54 | .51 | .94 | .75 | 37.0 | 11.47 | | | |
| | 12 | 400 | 9/16-18 UNF | 7 | 10 | 28 | 36 | 11 | 19 | 22 | 30 | 3,00 | FI-GE-12L9/16U-B-W3 | | |
| | .47 | 5800 | | .28 | .39 | 1.10 | 1.42 | .43 | .75 | .87 | 22.2 | 6.61 | | | |
| | 12 | 400 | 3/4-16 UNF | 10 | 11 | 31 | 39 | 13 | 24 | 22 | 50 | 4,89 | FI-GE-12L3/4U-B-W3 | | |
| | .47 | 5800 | | .39 | .43 | 1.22 | 1.54 | .51 | .94 | .87 | 37.0 | 10.75 | | | |
| | 12 | 400 | 7/8-14 UNF | 10 | 12,7 | 34 | 42 | 14,3 | 27 | 22 | 60 | 7,48 | FI-GE-12L7/8U-B-W3 | | |
| | .47 | 5800 | | .39 | .50 | 1.34 | 1.65 | .56 | 1.06 | .87 | 44.4 | 16.46 | | | |
| | 15 | 400 | 3/4-16 UNF | 11 | 11 | 32 | 40 | 14 | 24 | 27 | 50 | 2,40 | FI-GE-15L3/4U-B-W3 | | |
| | .59 | 5800 | | .43 | .43 | 1.26 | 1.57 | .55 | .94 | 1.06 | 37.0 | 5.29 | | | |
| | 15 | 400 | 7/8-14 UNF | 12 | 12,7 | 34,7 | 42,7 | 15 | 27 | 27 | 60 | 7,41 | FI-GE-15L7/8U-B-W3 | | |
| | .59 | 5800 | | .47 | .50 | 1.37 | 1.68 | .59 | 1.06 | 1.06 | 44.4 | 16.30 | | | |
| | 18 | 400 | 3/4-16 UNF | 11 | 11 | 33 | 42 | 14,5 | 27 | 32 | 50 | 6,86 | FI-GE-18L3/4U-B-W3 | | |
| | .71 | 5800 | | .43 | .43 | 1.30 | 1.65 | .57 | 1.06 | 1.26 | 37.0 | 15.09 | | | |
| | 18 | 400 | 7/8-14 UNF | 14 | 12,7 | 34,7 | 43,7 | 14,5 | 27 | 32 | 60 | 7,36 | FI-GE-18L7/8U-B-W3 | | |
| | .71 | 5800 | | .55 | .50 | 1.37 | 1.72 | .57 | 1.06 | 1.26 | 44.4 | 16.19 | | | |
| | 22 | 250 | 7/8-14 UNF | 14 | 12,7 | 37 | 46 | 16,8 | 32 | 36 | 60 | 9,44 | FI-GE-22L7/8U-B-W3 | | |
| | .87 | 3625 | | .55 | .50 | 1.46 | 1.81 | .66 | 1.26 | 1.42 | 44.4 | 20.78 | | | |
| | 22 | 250 | 1 1/16-12 UN | 18 | 15 | 39 | 48 | 16,5 | 32 | 36 | 95 | 10,50 | FI-GE-22L1-1/16U-B-W3 | | |
| | .87 | 3625 | | .71 | .59 | 1.54 | 1.89 | .65 | 1.26 | 1.42 | 70.3 | 23.10 | | | |
| | 22 | 250 | 1 5/16-12 UN | 19 | 15 | 40 | 49 | 17,5 | 41 | 36 | 150 | 18,00 | FI-GE-22L1-5/16U-B-W3 | | |
| | .87 | 3625 | | .75 | .59 | 1.57 | 1.93 | .69 | 1.61 | 1.42 | 111.0 | 39.60 | | | |
| | 28 | 250 | 7/8-14 UNF | 24 | 12,7 | 37,7 | 45,7 | 17,5 | 41 | 41 | 60 | 14,09 | FI-GE-28L7/8U-B-W3 | | |
| | 1.10 | 3625 | | .94 | .50 | 1.48 | 1.80 | .69 | 1.61 | 1.61 | 44.4 | 31.01 | | | |
| | 28 | 250 | 1 1/16-12 UN | 18 | 15 | 40 | 49 | 17,5 | 41 | 41 | 95 | 15,30 | FI-GE-28L1-1/16U-B-W3 | | |
| | 1.10 | 3625 | | .71 | .59 | 1.57 | 1.93 | .69 | 1.61 | 1.61 | 70.3 | 33.66 | | | |
| | 28 | 250 | 1 5/16-12 UN | 19 | 15 | 40 | 49 | 17,5 | 41 | 41 | 150 | 17,20 | FI-GE-28L1-5/16U-B-W3 | | |
| | 1.10 | 3625 | | .75 | .59 | 1.57 | 1.93 | .69 | 1.61 | 1.61 | 111.0 | 38.84 | | | |
| | 35 | 250 | 1 5/16-12 UN | 22 | 15 | 43 | 54 | 17,5 | 46 | 50 | 150 | 22,80 | FI-GE-35L1-5/16U-B-W3 | | |
| | 1.38 | 3625 | | .87 | .59 | 1.69 | 2.13 | .69 | 1.81 | 1.97 | 111.0 | 50.16 | | | |
| | 35 | 250 | 1 5/8-12 UN | 30 | 15 | 43 | 54 | 17,5 | 50 | 50 | 200 | 28,00 | FI-GE-35L1-5/8U-B-W3 | | |
| | 1.38 | 3625 | | 1.18 | .59 | 1.69 | 2.13 | .69 | 1.97 | 1.97 | 148.0 | 61.60 | | | |
| | 42 | 250 | 1 5/8-12 UN | 30 | 15 | 45 | 57 | 19 | 55 | 60 | 200 | 35,36 | FI-GE-42L1-5/8U-B-W3 | | |
| | 1.65 | 3625 | | 1.18 | .59 | 1.77 | 2.24 | .75 | 2.17 | 2.36 | 148.0 | 77.79 | | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to ISO 11926-2/-3

Port acc. to ISO 11926-1

Torque recommendations for Steel mating material.

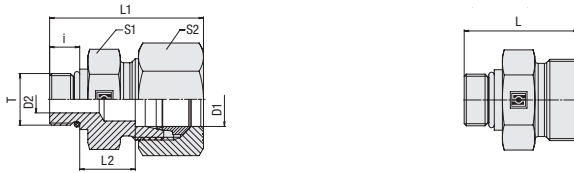
Standard seal material is NBR (Buna-N®).

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.



Straight Male Stud Fitting
Type FI-GE-...-U • Series S



C

O-Ring

UN/UNF Thread

| Series | Tube OD | | PN | Dimensions | | | | | | | | Torque (N•m / ft•lb) | Weight (kg / lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|-----------|-----------|----|--------------|--------|------|------|------|------|-----------------|------|-------------------------|--|-----------------------------|
| | (mm / in) | (mm / in) | | (mm / in) | Thread | T | D2 | i | L | L1 ¹ | L2 | | | |
| S | 8 | 630 | | 7/16-20 UNF | 4,5 | 11 | 29 | 38 | 13 | 17 | 19 | 20 | 2,65 | FI-GE-08S7/16U-B-W3 |
| | .31 | 9135 | | | .18 | .43 | 1.14 | 1.50 | .51 | .67 | .75 | 14.8 | 5.83 | |
| | 10 | 630 | | 9/16-18 UNF | 5 | 12 | 32 | 41 | 14,5 | 19 | 22 | 35 | 3,73 | FI-GE-10S9/16U-B-W3 |
| | .39 | 9135 | | | .20 | .47 | 1.26 | 1.61 | .57 | .75 | .87 | 25.9 | 8.20 | |
| | 12 | 630 | | 9/16-18 UNF | 7,5 | 12 | 36 | 45 | 16,5 | 24 | 24 | 35 | 6,09 | FI-GE-12S9/16U-B-W3 |
| | .47 | 9135 | | | .30 | .47 | 1.42 | 1.77 | .65 | .94 | .94 | 25.9 | 13.40 | |
| | 12 | 630 | | 3/4-16 UNF | 8 | 14 | 36 | 45 | 17,5 | 24 | 24 | 70 | 6,89 | FI-GE-12S3/4U-B-W3 |
| | .47 | 9135 | | | .31 | .55 | 1.42 | 1.77 | .69 | .94 | .94 | 51.8 | 15.15 | |
| | 16 | 630 | | 3/4-16 UNF | 8 | 14 | 35 | 45 | 15,5 | 24 | 30 | 70 | 6,68 | FI-GE-16S3/4U-B-W3 |
| | .63 | 9135 | | | .31 | .55 | 1.38 | 1.77 | .61 | .94 | 1.18 | 51.8 | 14.70 | |
| | 16 | 630 | | 7/8-14 UNF | 12 | 16 | 39,7 | 49,7 | 18,5 | 27 | 30 | 100 | 9,47 | FI-GE-16S7/8U-B-W3 |
| | .63 | 9135 | | | .47 | .63 | 1.56 | 1.96 | .73 | 1.06 | 1.18 | 74.0 | 20.84 | |
| | 20 | 400 | | 3/4-16 UNF | 8 | 14 | 42 | 53 | 20,5 | 32 | 36 | 70 | 11,83 | FI-GE-20S3/4U-B-W3 |
| | .79 | 5800 | | | .31 | .55 | 1.65 | 2.09 | .81 | 1.26 | 1.42 | 51.8 | 26.02 | |
| | 20 | 400 | | 7/8-14 UNF | 12 | 16 | 44 | 55 | 20,8 | 32 | 36 | 100 | 15,20 | FI-GE-20S7/8U-B-W3 |
| | .79 | 5800 | | | .47 | .63 | 1.73 | 2.17 | .82 | 1.26 | 1.42 | 74.0 | 33.44 | |
| | 20 | 400 | | 1 1/16-12 UN | 16 | 18,5 | 46 | 57 | 20,5 | 32 | 36 | 170 | 19,70 | FI-GE-20S1-1/16U-B-W3 |
| | .79 | 5800 | | | .63 | .73 | 1.81 | 2.24 | .81 | 1.26 | 1.42 | 125.8 | 43.34 | |
| | 25 | 400 | | 1 1/16-12 UN | 16 | 18,5 | 50 | 62 | 23 | 36 | 46 | 170 | 24,20 | FI-GE-25S1-1/16U-B-W3 |
| | .98 | 5800 | | | .63 | .73 | 1.97 | 2.44 | .91 | 1.42 | 1.81 | 125.8 | 53.24 | |
| | 25 | 400 | | 1 5/16-12 UN | 20 | 18,5 | 50 | 62 | 23 | 41 | 46 | 270 | 28,90 | FI-GE-25S1-5/16U-B-W3 |
| | .98 | 5800 | | | .79 | .73 | 1.97 | 2.44 | .91 | 1.61 | 1.81 | 199.8 | 63.58 | |
| | 30 | 400 | | 1 5/16-12 UN | 20 | 18,5 | 52 | 65 | 23,5 | 46 | 50 | 270 | 30,70 | FI-GE-30S1-5/16U-B-W3 |
| | 1.18 | 5800 | | | .79 | .73 | 2.05 | 2.56 | .93 | 1.81 | 1.97 | 199.8 | 67.54 | |
| | 30 | 400 | | 1 5/8-12 UN | 25 | 18,5 | 52 | 65 | 23,5 | 50 | 50 | 285 | 38,10 | FI-GE-30S1-5/8U-B-W3 |
| | 1.18 | 5800 | | | .98 | .73 | 2.05 | 2.56 | .93 | 1.97 | 1.97 | 210.9 | 83.82 | |
| | 38 | 315 | | 1 5/8-12 UN | 25 | 18,5 | 57 | 72 | 22,5 | 55 | 60 | 285 | 50,70 | FI-GE-38S1-5/8U-B-W3 |
| | 1.50 | 4568 | | | .98 | .73 | 2.24 | 2.83 | .89 | 2.17 | 2.36 | 210.9 | 111.54 | |

Ordering Codes

***FI-GE*-10*L*3/4*U*-B*-W3*-MS**

- * Straight Male Stud Fitting **FI-GE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Light Series (page 60) **L**
Heavy Series (page 61) **S**
- * Thread Size acc. to dimension table **3/4**
- Please always indicate thread sizes, e.g. 3/4!
- * Thread Type UN/UNF Thread with O-Ring **U**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body only **—**
Fitting body supplied with cutting ring and union nut **-MS**
Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Male stud acc. to ISO 11926-2/-3

Port acc. to ISO 11926-1

Torque recommendations for Steel mating material.

Connecting Parts

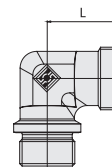
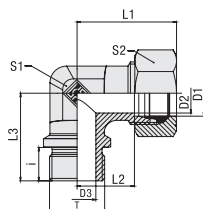
- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

Spare Parts / Accessories

- O-Ring Type **O-RING** Page 207



Male Stud Elbow
Type FI-WE-...-R • Series L / S



C

Whitworth Parallel Pipe Thread (BSPP)

Metallic Sealing Edge

Ordering Codes

***FI-WE*-25*S*R*-W3*-MS**

| | | |
|---|--|----------------------|
| * Male Stud Elbow | | FI-WE |
| * Outside Tube Diameter D1 (in mm) | | -25 |
| * Series | Light Series Heavy Series | L S |
| * Thread Type | Whitworth Parallel Pipe Thread (BSPP) | R |
| If required, please indicate special sizes, e.g. R3/4! | | |
| * Material Code | Steel, zinc/nickel-plated | -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | | |
| * Assembling / Kitting | Fitting body only | — |
| | Fitting body supplied with cutting ring and union nut | -MS |
| | Fitting body supplied with soft-sealing cutting ring and union nut | -MSV |

| Series | Tube OD (mm/in) | PN (°BW/PS) | Dimensions (mm/in) | | | | | | | | | | | Torque (N·m/ft·lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|----------------|-----------------------|------|------|------|------|------|-----------------|------|------|-------|-------|-----------------------|--|-----------------------------|
| | | | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | S1 | S2 | | | |
| L | 22 | 160 | G 3/4 | 19 | 18 | 16 | 35 | 44 | 27,5 | 42 | 27 | 36 | 180 | 1,78 | FI-WE-22LR-W3 | |
| | .87 | 2320 | | .75 | .71 | .63 | 1.38 | 1.73 | 1.08 | 1.65 | 1.06 | 1.42 | 133,2 | 3,92 | | |
| | 28 | 160 | G 1 | 24 | 23 | 18 | 38 | 47 | 30,5 | 48 | 36 | 41 | 330 | 3,12 | FI-WE-28LR-W3 | |
| | 1.10 | 2320 | | .94 | .91 | .71 | 1.50 | 1.85 | 1.20 | 1.89 | 1.42 | 1.61 | 244,2 | 6,86 | | |
| | 35 | 160 | G 1 1/4 | 30 | 30 | 20 | 45 | 56 | 34,5 | 54 | 41 | 50 | 540 | 4,67 | FI-WE-35LR-W3 | |
| | 1.38 | 2320 | | 1.18 | 1.18 | .79 | 1.77 | 2.20 | 1.36 | 2.13 | 1.61 | 1.97 | 399,6 | 10,27 | | |
| 42 | 160 | G 1 1/2 | 36 | 36 | 22 | 51 | 63 | 40 | 61 | 50 | 60 | 630 | 6,90 | FI-WE-42LR-W3 | | |
| 1.65 | 2320 | | 1.42 | 1.42 | .87 | 2.01 | 2.48 | 1.57 | 2.40 | 1.97 | 2.36 | 466,2 | 15,18 | | | |
| S | 20 | 420 | G 3/4 | 16 | 16 | 16 | 37 | 48 | 26,5 | 42 | 27 | 36 | 270 | 2,15 | FI-WE-20SR-W3 | |
| | .79 | 6090 | | .63 | .63 | .63 | 1.46 | 1.89 | 1.04 | 1.65 | 1.06 | 1.42 | 199,8 | 4,73 | | |
| | 25 | 420 | G 3/4 | 20 | 18 | 16 | 42 | 54 | 30 | 48 | 36 | 46 | 340 | 3,77 | FI-WE-25SR3/4-W3 | |
| | .98 | 6090 | | .79 | .71 | .63 | 1.65 | 2.13 | 1.18 | 1.89 | 1.42 | 1.81 | 251,6 | 8,29 | | |
| | 25 | 420 | G 1 | 20 | 20 | 18 | 42 | 54 | 30 | 48 | 36 | 46 | 340 | 4,06 | FI-WE-25SR-W3 | |
| | .98 | 6090 | | .79 | .79 | .71 | 1.65 | 2.13 | 1.18 | 1.89 | 1.42 | 1.81 | 251,6 | 8,93 | | |
| | 30 | 250 | G 1 1/4 | 25 | 25 | 20 | 49 | 62 | 35,5 | 54 | 41 | 50 | 540 | 6,28 | FI-WE-30SR-W3 | |
| | 1.18 | 3625 | | .98 | .98 | .79 | 1.93 | 2.44 | 1.40 | 2.13 | 1.61 | 1.97 | 399,6 | 13,82 | | |
| | 38 | 250 | G 1 1/2 | 32 | 32 | 22 | 57 | 72 | 41 | 61 | 50 | 60 | 700 | 9,15 | FI-WE-38SR-W3 | |
| | 1.50 | 3625 | | 1.26 | 1.26 | .87 | 2.24 | 2.83 | 1.61 | 2.40 | 1.97 | 2.36 | 518,0 | 20,13 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-2 (Form B) / ISO 1179-4 (Type B)
Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

Torque recommendations for Steel mating material.

Connecting Parts

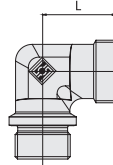
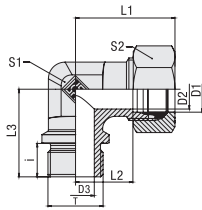
| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.



Male Stud Elbow
Type FI-WE...-M • Series L / S



C

Metallic Sealing Edge

Metric Parallel Thread

| Series | Tube OD PN | | Dimensions | | | | | | | | | | | Torque (N·m/ft·lb) | Weight (kg/lbs) ca. | Ordering Codes ³ |
|--------|------------|-----------|------------|------|------|------|------|------|------|------|------|-------|-------|-----------------------|------------------------|-----------------------------|
| | (mm/in) | (bar/psi) | (mm/in) | | | | | | | | | | | | | |
| L | 22 | 250 | M 26 x | 19 | 18 | 16 | 35 | 44 | 27,5 | 42 | 27 | 36 | 190 | 1,73 | FI-WE-22LM-W3 | |
| | .87 | 3625 | 1,5 | .75 | .71 | .63 | 1.38 | 1.73 | 1.08 | 1.65 | 1.06 | 1.42 | 140,6 | 3,81 | | |
| | 28 | 250 | M 33 x 2 | 24 | 23 | 18 | 38 | 47 | 30,5 | 48 | 36 | 41 | 340 | 3,04 | FI-WE-28LM-W3 | |
| | 1.10 | 3625 | | .94 | .91 | .71 | 1.50 | 1.85 | 1.20 | 1.89 | 1.42 | 1.61 | 251,6 | 6,69 | | |
| | 35 | 250 | M 42 x 2 | 30 | 30 | 20 | 45 | 56 | 34,5 | 54 | 41 | 50 | 500 | 4,70 | FI-WE-35LM-W3 | |
| | 1.38 | 3625 | | 1.18 | 1.18 | .79 | 1.77 | 2.20 | 1.36 | 2.13 | 1.61 | 1.97 | 370,0 | 10,35 | | |
| 42 | 250 | M 48 x 2 | 36 | 36 | 22 | 51 | 63 | 40 | 61 | 50 | 60 | 630 | 6,96 | FI-WE-42LM-W3 | | |
| 1.65 | 3625 | | 1.42 | 1.42 | .87 | 2.01 | 2.48 | 1.57 | 2.40 | 1.97 | 2.36 | 466,2 | 15,31 | | | |
| S | 20 | 420 | M 27 x 2 | 16 | 16 | 16 | 37 | 48 | 26,5 | 42 | 27 | 36 | 270 | 2,14 | FI-WE-20SM-W3 | |
| | .79 | 6090 | | .63 | .63 | .63 | 1.46 | 1.89 | 1.04 | 1.65 | 1.06 | 1.42 | 199,8 | 4,71 | | |
| | 25 | 250 | M 33 x 2 | 20 | 20 | 18 | 42 | 54 | 30 | 48 | 36 | 46 | 410 | 4,46 | FI-WE-25SM-W3 | |
| | .98 | 3625 | | .79 | .79 | .71 | 1.65 | 2.13 | 1.18 | 1.89 | 1.42 | 1.81 | 303,4 | 9,81 | | |
| | 30 | 250 | M 42 x 2 | 25 | 25 | 20 | 49 | 62 | 35,5 | 54 | 41 | 50 | 540 | 6,33 | FI-WE-30SM-W3 | |
| | 1.18 | 3625 | | .98 | .98 | .79 | 1.93 | 2.44 | 1.40 | 2.13 | 1.61 | 1.97 | 399,6 | 13,93 | | |
| | 38 | 250 | M 48 x 2 | 32 | 32 | 22 | 57 | 72 | 41 | 61 | 50 | 60 | 700 | 9,24 | FI-WE-38SM-W3 | |
| | 1.50 | 3625 | | 1.26 | 1.26 | .87 | 2.24 | 2.83 | 1.61 | 2.40 | 1.97 | 2.36 | 518,0 | 20,33 | | |

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-1 (Form B) / ISO 9974-3 (Type B)
 Port acc. to DIN 3852-1 (Form X) / ISO 9974-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
 Please contact STAUFF prior to the assembly for further information.

Ordering Codes

***FI-WE*-25*S*M*-W3*-MS**

- * Male Stud Elbow **FI-WE**
- * Outside Tube Diameter D1 (in mm) **-25**
- * Series Light Series **L**
Heavy Series **S**
- * Thread Type Metric Parallel Thread **M**

If required, please indicate special sizes, e.g. M27x2!

- * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

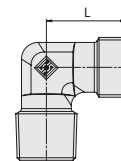
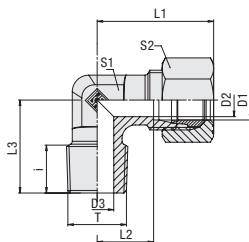
- * Assembling / Kitting Fitting body only **—**
 Fitting body supplied with cutting ring and union nut **-MS**
 Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35



Male Stud Elbow
Type FI-WE-...-Rk ■ Series LL / L / S



C



Ordering Codes

***FI-WE*-10*L*Rk*-W3*-MS**

| | |
|---|--|
| * Male Stud Elbow | FI-WE |
| * Outside Tube Diameter D1 (in mm) | -10 |
| * Series | Extra-Light Series LL Light Series L Heavy Series S |
| * Thread Type | Whitworth Taper Pipe Thread (BSPT) Rk |
| If required, please indicate special sizes, e.g. R3/8k! | |
| * Material Code | Steel, zinc/nickel-plated -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | |
| * Design | Made from forging blanks — Made from profile material PR |
| * Assembling / Kitting | Fitting body only — Fitting body supplied with cutting ring and union nut -MS Fitting body supplied with soft-sealing cutting ring and union nut -MSV |

Connecting Parts

| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended. Please contact STAUFF prior to the assembly for further information.

Whitworth Taper Pipe Thread (BSPT)

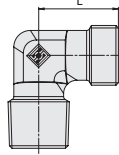
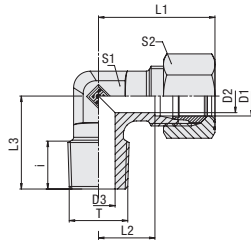
| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | |
|--------|--------------------|-----------------|-----------------------|------------|------|------|------|------|-----------------|------|------|-------|--|-----------------------------|----------------|
| | | | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | S1 | | | S2 |
| LL | 4 | 100 | R 1/8 keg. | 3 | 3 | 8 | 15 | 21 | 11 | 17 | 11 | 10 | 1,46 | FI-WE-04LLRk-W3-PR | |
| | .16 | 1450 | | .12 | .12 | .31 | .59 | .83 | .43 | .67 | .43 | .39 | 3.12 | | |
| | 6 | 100 | R 1/8 keg. | 4,5 | 4,5 | 8 | 15 | 21 | 9,5 | 17 | 11 | 12 | 1,73 | FI-WE-06LLRk-W3-PR | |
| | .24 | 1450 | | .18 | .18 | .31 | .59 | .83 | .37 | .67 | .43 | .47 | 3.81 | | |
| | 8 | 100 | R 1/8 keg. | 6 | 6 | 8 | 17 | 23 | 11,5 | 20 | 12 | 14 | 2,63 | FI-WE-08LLRk-W3-PR | |
| | .31 | 1450 | | .24 | .24 | .31 | .67 | .91 | .45 | .79 | .47 | .55 | 5.79 | | |
| | 10 | 100 | R 1/4 keg. | 8 | 7 | 12 | 21,5 | 27,5 | 16 | 26 | 14 | 14 | 9,10 | FI-WE-10LLRk-W3 | |
| | .39 | 1450 | | .31 | .28 | .47 | .85 | 1.08 | .63 | 1.02 | .55 | .55 | 20.02 | | |
| | 12 | 100 | R 1/4 keg. | 10 | 7 | 9,9 | 22 | 28 | 16 | 23 | 14 | 17 | 11,40 | FI-WE-12LLRk-W3 | |
| | .47 | 1450 | | .39 | .28 | .39 | .87 | 1.10 | .63 | .91 | .55 | .67 | 25.08 | | |
| | L | 6 | 315 | R 1/8 keg. | 4 | 4 | 8 | 19 | 27 | 12 | 20 | 12 | 14 | 1,96 | FI-WE-06LRk-W3 |
| | | .24 | 4568 | | .16 | .16 | .31 | .75 | 1.06 | .47 | .79 | .47 | .55 | 4.32 | |
| 6 | | 315 | R 1/4 keg. | 4 | 6 | 12 | 21 | 29 | 14 | 25,5 | 12 | 14 | 2,93 | FI-WE-06LR1/4k-W3 | |
| .24 | | 4568 | | .16 | .24 | .47 | .83 | 1.14 | .55 | 1.00 | .47 | .55 | 6.44 | | |
| 8 | | 315 | R 1/8 keg. | 6 | 4 | 8 | 21 | 29 | 14 | 26 | 12 | 17 | 2,64 | FI-WE-08LR1/8k-W3 | |
| .31 | | 4568 | | .24 | .16 | .31 | .83 | 1.14 | .55 | 1.02 | .47 | .67 | 5.80 | | |
| 8 | | 315 | R 1/4 keg. | 6 | 6 | 12 | 21 | 29 | 14 | 26 | 12 | 17 | 2,93 | FI-WE-08LRk-W3 | |
| .31 | | 4568 | | .24 | .24 | .47 | .83 | 1.14 | .55 | 1.02 | .47 | .67 | 6.45 | | |
| 8 | | 315 | R 3/8 keg. | 6 | 9 | 14 | 24 | 32 | 17 | 28 | 14 | 17 | 4,34 | FI-WE-08LR3/8k-W3 | |
| .31 | | 4568 | | .24 | .35 | .55 | .94 | 1.26 | .67 | 1.10 | .55 | .67 | 9.54 | | |
| 10 | | 315 | R 1/4 keg. | 8 | 7 | 13 | 22 | 30 | 15 | 27 | 14 | 19 | 3,53 | FI-WE-10LRk-W3 | |
| .39 | | 4568 | | .31 | .28 | .51 | .87 | 1.18 | .59 | 1.06 | .55 | .75 | 7.76 | | |
| 10 | | 315 | R 3/8 keg. | 8 | 8 | 12,5 | 22 | 30 | 15 | 28 | 14 | 19 | 4,29 | FI-WE-10LR3/8k-W3 | |
| .39 | | 4568 | | .31 | .31 | .49 | .87 | 1.18 | .59 | 1.10 | .55 | .75 | 9.43 | | |
| 12 | | 315 | R 1/4 keg. | 10 | 7 | 14,3 | 24 | 32 | 17 | 27 | 17 | 22 | 4,57 | FI-WE-12LR1/4k-W3 | |
| .47 | | 4568 | | .39 | .28 | .56 | .94 | 1.26 | .67 | 1.06 | .67 | .87 | 10.06 | | |
| 12 | | 315 | R 3/8 keg. | 10 | 9 | 13 | 24 | 32 | 17 | 28,5 | 17 | 22 | 5,33 | FI-WE-12LRk-W3 | |
| .47 | | 4568 | | .39 | .35 | .51 | .94 | 1.26 | .67 | 1.12 | .67 | .87 | 11.72 | | |
| 12 | | 315 | R 1/2 keg. | 10 | 10 | 14 | 28 | 36 | 21 | 34 | 19 | 22 | 9,94 | FI-WE-12LR1/2k-W3 | |
| .47 | | 4568 | | .39 | .39 | .55 | 1.10 | 1.42 | .83 | 1.34 | .75 | .87 | 21.87 | | |
| 15 | | 315 | R 3/8 keg. | 12 | 9 | 14 | 28 | 36 | 21 | 34 | 19 | 27 | 8,79 | FI-WE-15LR3/8k-W3 | |
| .59 | | 4568 | | .47 | .35 | .55 | 1.10 | 1.42 | .83 | 1.34 | .75 | 1.06 | 19.33 | | |
| 15 | | 315 | R 1/2 keg. | 12 | 12 | 16 | 28 | 36 | 21 | 34 | 19 | 27 | 9,12 | FI-WE-15LRk-W3 | |
| .59 | | 4568 | | .47 | .47 | .63 | 1.10 | 1.42 | .83 | 1.34 | .75 | 1.06 | 20.06 | | |
| 18 | 315 | R 1/2 keg. | 15 | 14 | 17,5 | 31 | 40 | 23,5 | 36 | 24 | 32 | 11,63 | FI-WE-18LRk-W3 | | |
| .71 | 4568 | | .59 | .55 | .69 | 1.22 | 1.57 | .93 | 1.42 | .94 | 1.26 | 25.58 | | | |
| 22 | 160 | R 3/4 keg. | 19 | 18 | 11 | 35 | 44 | 28,5 | 42,5 | 27 | 36 | 16,80 | FI-WE-22LRk-W3 | | |
| .87 | 2320 | | .75 | .71 | .43 | 1.38 | 1.73 | 1.12 | 1.67 | 1.06 | 1.42 | 36.96 | | | |
| S | 6 | 400 | R 1/4 keg. | 4 | 4 | 12 | 23 | 31 | 16 | 26 | 12 | 17 | 5,73 | FI-WE-06SRk-W3 | |
| | .24 | 5800 | | .16 | .16 | .47 | .91 | 1.22 | .63 | 1.02 | .47 | .67 | 12.60 | | |
| | 8 | 400 | R 1/4 keg. | 5 | 5 | 13 | 24 | 32 | 17 | 27 | 14 | 19 | 4,70 | FI-WE-08SRk-W3 | |
| | .31 | 5800 | | .20 | .20 | .51 | .94 | 1.26 | .67 | 1.06 | .55 | .75 | 10.34 | | |
| | 10 | 400 | R 1/4 keg. | 7 | 5 | 13 | 25 | 34 | 17,5 | 28 | 17 | 22 | 5,94 | FI-WE-10SR1/4k-W3 | |
| | .39 | 5800 | | .28 | .20 | .51 | .98 | 1.34 | .69 | 1.10 | .67 | .87 | 13.06 | | |
| | 10 | 400 | R 3/8 keg. | 7 | 7 | 13 | 25 | 34 | 17,5 | 28 | 17 | 22 | 6,71 | FI-WE-10SRk-W3 | |
| | .39 | 5800 | | .28 | .28 | .51 | .98 | 1.34 | .69 | 1.10 | .67 | .87 | 14.77 | | |
| | 12 | 400 | R 3/8 keg. | 8 | 7 | 12 | 29 | 38 | 21,5 | 28 | 17 | 24 | 7,78 | FI-WE-12SRk-W3 | |
| | .47 | 5800 | | .31 | .28 | .47 | 1.14 | 1.50 | .85 | 1.10 | .67 | .94 | 17.12 | | |
| | 12 | 400 | R 1/2 keg. | 8 | 10 | 14 | 30 | 39 | 22,5 | 32 | 19 | 24 | 4,67 | FI-WE-12SR1/2k-W3 | |
| | .47 | 5800 | | .31 | .39 | .55 | 1.18 | 1.54 | .89 | 1.26 | .75 | .94 | 10.27 | | |
| | 14 | 400 | R 1/2 keg. | 10 | 10 | 14 | 30 | 40 | 22 | 32 | 19 | 27 | 10,53 | FI-WE-14SRk-W3 | |
| | .55 | 5800 | | .39 | .39 | .55 | 1.18 | 1.57 | .87 | 1.26 | .75 | 1.06 | 23.17 | | |
| | 16 | 400 | R 1/2 keg. | 12 | 12 | 14 | 34 | 44 | 25,5 | 32 | 24 | 30 | 13,60 | FI-WE-16SRk-W3 | |
| | .63 | 5800 | | .47 | .47 | .55 | 1.34 | 1.73 | 1.00 | 1.26 | 1.78 | 66.0 | 29.92 | | |
| | 16 | 400 | R 3/4 keg. | 12 | 12 | 14 | 34 | 44 | 25,5 | 32 | 24 | 30 | 22,00 | FI-WE-16SR3/4k-W3 | |
| | .63 | 5800 | | .47 | .47 | .55 | 1.34 | 1.73 | 1.00 | 1.26 | .94 | 1.18 | 48.40 | | |
| | 20 | 400 | R 1/2 keg. | 16 | 10 | 14 | 37 | 48 | 26,5 | 42 | 27 | 36 | 21,00 | FI-WE-20SR1/2k-W3 | |
| | .79 | 5800 | | .63 | .39 | .55 | 1.46 | 1.89 | 1.04 | 1.65 | 1.06 | 1.42 | 46.20 | | |

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-2 (Form C)
 Port acc. to DIN 3852-2 (Form Z)

Suitable liquid / plastic sealant required.





Male Stud Elbow
Type FI-WE-...-Mk ■ Series LL / L / S



Metric Taper Thread

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | Dimensions | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|-----------------|-----|------|------|------|------|-----------------|------|-------|----------------|--|-----------------------------|
| | | | | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | S1 | | |
| LL | 4 | 100 | M 8 x 1 keg. | 3 | 3,5 | 8 | 15 | 21 | 11 | 17 | 9 | 10 | 1,46 | FI-WE-04LLMk-W3-PR | |
| | .16 | 1450 | | .12 | .14 | .31 | .59 | .83 | .43 | .67 | .35 | .39 | 3.12 | | |
| | 6 | 100 | M 10 x 1 keg. | 4,5 | 4,5 | 8 | 15 | 21 | 9,5 | 17 | 11 | 12 | 1,74 | FI-WE-06LLMk-W3-PR | |
| | .24 | 1450 | | .18 | .18 | .31 | .59 | .83 | .37 | .67 | .43 | .47 | 3.83 | | |
| L | 8 | 100 | M 10 x 1 keg. | 6 | 6 | 8 | 17 | 23 | 11,5 | 20 | 12 | 14 | 2,82 | FI-WE-08LLMk-W3-PR | |
| | .31 | 1450 | | .24 | .24 | .31 | .67 | .91 | .45 | .79 | .47 | .55 | 6.20 | | |
| | 6 | 315 | M 10 x 1 keg. | 4 | 4 | 8 | 19 | 27 | 12 | 20 | 12 | 14 | 2,16 | FI-WE-06LMk-W3 | |
| | .24 | 4568 | | .16 | .16 | .31 | .75 | 1.06 | .47 | .79 | .47 | .55 | 4.75 | | |
| S | 8 | 315 | M 12 x 1,5 keg. | 6 | 6 | 12 | 21 | 29 | 14 | 26 | 12 | 17 | 2,67 | FI-WE-08LMk-W3 | |
| | .31 | 4568 | | .24 | .24 | .47 | .83 | 1.14 | .55 | 1.02 | .47 | .67 | 5.88 | | |
| | 10 | 315 | M 14 x 1,5 keg. | 8 | 7 | 11,5 | 22 | 30 | 15 | 27 | 14 | 19 | 4,19 | FI-WE-10LMk-W3 | |
| | .39 | 4568 | | .31 | .28 | .45 | .87 | 1.18 | .59 | 1.06 | .55 | .75 | 9.23 | | |
| | 12 | 315 | M 16 x 1,5 keg. | 10 | 9 | 11,5 | 24 | 32 | 17 | 28 | 17 | 22 | 5,05 | FI-WE-12LMk-W3 | |
| | .47 | 4568 | | .39 | .35 | .45 | .94 | 1.26 | .67 | 1.10 | .67 | .87 | 11.10 | | |
| | 15 | 315 | M 18 x 1,5 keg. | 12 | 11 | 12 | 28 | 36 | 21 | 32 | 19 | 27 | 8,82 | FI-WE-15LMk-W3 | |
| | .59 | 4568 | | .47 | .43 | .47 | 1.10 | 1.42 | .83 | 1.26 | .75 | 1.06 | 19.41 | | |
| | 18 | 315 | M 22 x 1,5 keg. | 15 | 14 | 14 | 31 | 40 | 23,5 | 36 | 24 | 32 | 12,56 | FI-WE-18LMk-W3 | |
| | .71 | 4568 | | .59 | .55 | .55 | 1.22 | 1.57 | .93 | 1.42 | .94 | 1.26 | 27.64 | | |
| | S | 6 | 400 | M 12 x 1,5 keg. | 4 | 4 | 12 | 23 | 31 | 16 | 26 | 12 | 17 | 3,44 | FI-WE-06SMk-W3 |
| | | .24 | 5800 | | .16 | .16 | .47 | .91 | 1.22 | .63 | 1.02 | .47 | .67 | 7.56 | |
| | | 8 | 400 | M 14 x 1,5 keg. | 5 | 5 | 11,5 | 24 | 32 | 17 | 27 | 14 | 19 | 5,33 | FI-WE-08SMk-W3 |
| | | .31 | 5800 | | .20 | .20 | .45 | .94 | 1.26 | .67 | 1.06 | .55 | .75 | 11.73 | |
| | | 10 | 400 | M 16 x 1,5 keg. | 7 | 7 | 11,5 | 25 | 34 | 17,5 | 28 | 17 | 22 | 6,35 | FI-WE-10SMk-W3 |
| | | .39 | 5800 | | .28 | .28 | .45 | .98 | 1.34 | .69 | 1.10 | .67 | .87 | 13.97 | |
| 12 | | 400 | M 18 x 1,5 keg. | 8 | 8 | 12 | 29 | 38 | 21,5 | 28 | 17 | 24 | 8,19 | FI-WE-12SMk-W3 | |
| .47 | | 5800 | | .31 | .31 | .47 | 1.14 | 1.50 | .85 | 1.10 | .67 | .94 | 18.02 | | |
| 14 | | 400 | M 20 x 1,5 keg. | 10 | 10 | 14 | 30 | 40 | 22 | 32 | 19 | 27 | 11,45 | FI-WE-14SMk-W3 | |
| .55 | | 5800 | | .39 | .39 | .55 | 1.18 | 1.57 | .87 | 1.26 | .75 | 1.06 | 25.19 | | |
| 16 | 400 | M 22 x 1,5 keg. | 12 | 12 | 14 | 33 | 43 | 24,5 | 32 | 24 | 30 | 9,62 | FI-WE-16SMk-W3 | | |
| .63 | 5800 | | .47 | .47 | .55 | 1.30 | 1.69 | .96 | 1.26 | .94 | 1.18 | 21.17 | | | |

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-1 (Form C)
 Port acc. to DIN 3852-1 (Form Z)

Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
 Please contact STAUFF prior to the assembly for further information.

Ordering Codes

***FI-WE*-10*L*Mk*-W3*-MS**

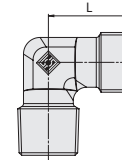
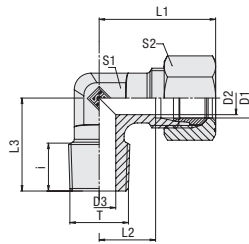
- * Male Stud Elbow FI-WE
- * Outside Tube Diameter D1 (in mm) -10
- * Series LL
L
S
- * Thread Type Mk
- If required, please indicate special sizes, e.g. M12x1.5k!
- * Material Code -W3
 Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Design —
 Made from forging blanks
 Made from profile material
- * Assembling / Kitting —
 Fitting body only
 Fitting body supplied with cutting ring and union nut -MS
 Fitting body supplied with soft-sealing cutting ring and union nut -MSV

Connecting Parts

-  Cutting Ring
Type **FI-DS** Page 26
-  Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
-  Support Sleeve
Type **FI-VH** Page 28
-  STAUFF Form Ring
Type **FI-AR** Page 30
-  Union Nut
Type **FI-M** Page 31
-  37° Flared Tube Fitting Set
Type **FI-AB** Page 35



Male Stud Elbow
Type FI-WE-...-N • Series LL / L



C



Ordering Codes

***FI-WE*-10*L*1/4*N*-W3*-MS**

| | | |
|---|--|---------------------------------------|
| * Male Stud Elbow | | FI-WE |
| * Outside Tube Diameter D1 (in mm) | | -10 |
| * Series | Extra-Light Series (page 66) Light Series (page 66) Heavy Series (page 67) | LL L S |
| * Thread Size | acc. to dimension table | 1/4 |
| Please always indicate thread sizes, e.g. 1/4! | | |
| * Thread Type | NPT Thread | N |
| * Material Code | Steel, zinc/nickel-plated | -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | | |
| * Design | Made from forging blanks Made from profile material | — PR |
| * Assembling / Kitting | Fitting body only Fitting body supplied with cutting ring and union nut Fitting body supplied with soft-sealing cutting ring and union nut | — -MS -MSV |

Connecting Parts

| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

NPT Thread

| Series | Tube OD PN | | Dimensions | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|------------|-----------|------------|--------|------|------|------|------|------|-----------------|------|------|--|-----------------------------|
| | (mm/in) | (bar/psi) | (mm/in) | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | | |
| LL | 4 | 100 | 1/8 NPT | 3 | 4 | 9,9 | 15 | 21 | 11 | 15,6 | 11 | 10 | 1,81 | FI-WE-04LL1/8N-W3-PR |
| | .16 | 1450 | | .12 | .16 | .39 | .59 | .83 | .43 | .61 | .43 | .39 | 3,98 | |
| | 6 | 100 | 1/8 NPT | 4,5 | 4,5 | 8 | 15 | 21 | 9,5 | 17 | 11 | 12 | 1,57 | FI-WE-06LL1/8N-W3-PR |
| | .24 | 1450 | | .18 | .18 | .31 | .59 | .83 | .37 | .67 | .43 | .47 | 3,45 | |
| L | 8 | 100 | 1/8 NPT | 6 | 6 | 10 | 17 | 23 | 11,5 | 20 | 12 | 14 | 2,64 | FI-WE-08LL1/8N-W3-PR |
| | .31 | 1450 | | .24 | .24 | .39 | .67 | .91 | .45 | .79 | .47 | .55 | 5,80 | |
| | 6 | 315 | 1/8 NPT | 4 | 5 | 8 | 19 | 27 | 11,5 | 20 | 12 | 14 | 1,91 | FI-WE-06L1/8N-W3 |
| | .24 | 4568 | | .16 | .20 | .31 | .75 | 1.06 | .45 | .79 | .47 | .55 | 4,20 | |
| L | 6 | 315 | 1/4 NPT | 4 | 7 | 10 | 21 | 29 | 14 | 26 | 14 | 14 | 2,80 | FI-WE-06L1/4N-W3 |
| | .24 | 4568 | | .16 | .28 | .39 | .83 | 1.14 | .55 | 1.02 | .55 | .55 | 6,15 | |
| L | 6 | 315 | 3/8 NPT | 4 | 8 | 10,5 | 25 | 33 | 18 | 28 | 17 | 14 | 5,63 | FI-WE-06L3/8N-W3 |
| | .24 | 4568 | | .16 | .31 | .41 | .98 | 1.30 | .71 | 1.10 | .67 | .55 | 12,38 | |
| L | 8 | 315 | 1/8 NPT | 6 | 4 | 7 | 21 | 29 | 14 | 26 | 12 | 17 | 2,36 | FI-WE-08L1/8N-W3 |
| | .31 | 4568 | | .24 | .16 | .28 | .83 | 1.14 | .55 | 1.02 | .47 | .67 | 5,20 | |
| L | 8 | 315 | 1/4 NPT | 6 | 6 | 11,4 | 21 | 29 | 14 | 26 | 12 | 17 | 2,92 | FI-WE-08L1/4N-W3 |
| | .31 | 4568 | | .24 | .24 | .45 | .83 | 1.14 | .55 | 1.02 | .47 | .67 | 6,42 | |
| L | 10 | 315 | 1/4 NPT | 8 | 7 | 13 | 22 | 30 | 15 | 27 | 14 | 19 | 3,56 | FI-WE-10L1/4N-W3 |
| | .39 | 4568 | | .31 | .28 | .51 | .87 | 1.18 | .59 | 1.06 | .55 | .75 | 7,82 | |
| L | 10 | 315 | 3/8 NPT | 8 | 8 | 10,5 | 24 | 32 | 17 | 28 | 17 | 19 | 5,67 | FI-WE-10L3/8N-W3 |
| | .39 | 4568 | | .31 | .31 | .41 | .94 | 1.26 | .67 | 1.10 | .67 | .75 | 12,47 | |
| L | 12 | 315 | 1/4 NPT | 10 | 7 | 13 | 24 | 32 | 17 | 28 | 17 | 22 | 4,81 | FI-WE-12L1/4N-W3 |
| | .47 | 4568 | | .39 | .28 | .51 | .94 | 1.26 | .67 | 1.10 | .67 | .87 | 10,58 | |
| L | 12 | 315 | 3/8 NPT | 10 | 8 | 10,5 | 24 | 32 | 17 | 28 | 17 | 22 | 4,87 | FI-WE-12L3/8N-W3 |
| | .47 | 4568 | | .39 | .31 | .41 | .94 | 1.26 | .67 | 1.10 | .67 | .87 | 10,71 | |
| L | 12 | 315 | 1/2 NPT | 10 | 11 | 14 | 28 | 36 | 21 | 34 | 19 | 22 | 7,99 | FI-WE-12L1/2N-W3 |
| | .47 | 4568 | | .39 | .43 | .55 | 1.10 | 1.42 | .83 | 1.34 | .75 | .87 | 17,57 | |
| L | 15 | 315 | 1/2 NPT | 12 | 14 | 14 | 28 | 39 | 21 | 34 | 19 | 27 | 8,05 | FI-WE-15L1/2N-W3 |
| | .59 | 4568 | | .47 | .55 | .55 | 1.10 | 1.54 | .83 | 1.34 | .75 | 1.06 | 17,70 | |
| L | 18 | 315 | 1/2 NPT | 15 | 12 | 14 | 31 | 40 | 23,5 | 36 | 24 | 32 | 12,79 | FI-WE-18L1/2N-W3 |
| | .71 | 4568 | | .59 | .47 | .55 | 1.22 | 1.57 | .93 | 1.42 | .94 | 1.26 | 28,14 | |
| L | 22 | 160 | 3/4 NPT | 19 | 16 | 14 | 35 | 44 | 27,5 | 42 | 27 | 36 | 17,07 | FI-WE-22L3/4N-W3 |
| | .87 | 2320 | | .75 | .63 | .55 | 1.38 | 1.73 | 1.08 | 1.65 | 1.06 | 1.42 | 37,56 | |
| L | 28 | 160 | 1 NPT | 24 | 21 | 17,5 | 38 | 47 | 30,5 | 48 | 36 | 41 | 32,40 | FI-WE-28L1N-W3 |
| | 1.10 | 2320 | | .94 | .83 | .69 | 1.50 | 1.85 | 1.20 | 1.89 | 1.42 | 1.61 | 71,28 | |
| L | 35 | 160 | 1 1/4 NPT | 30 | 28 | 18 | 48 | 59 | 34,5 | 54 | 41 | 50 | 51,70 | FI-WE-35L1-1/4N-W3 |
| | 1.38 | 2320 | | 1.18 | 1.10 | .71 | 1.89 | 2.32 | 1.36 | 2.13 | 1.61 | 1.97 | 113,74 | |
| L | 42 | 160 | 1 1/2 NPT | 36 | 34 | 18,5 | 54 | 66 | 43 | 61 | 50 | 60 | 74,60 | FI-WE-42L1-1/2N-W3 |
| | 1.65 | 2320 | | 1.42 | 1.34 | .73 | 2.13 | 2.60 | 1.69 | 2.40 | 1.97 | 2.36 | 164,12 | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to ANSI/ASME B1.20.1-1983

Port acc. to ANSI/ASME B1.20.1-1983

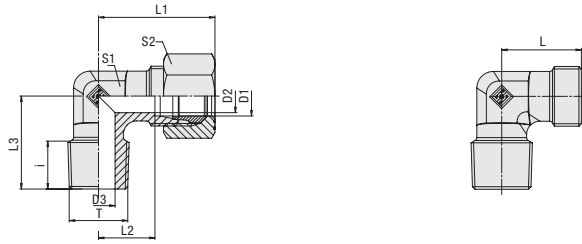
Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.



Male Stud Elbow
Type FI-WE-...-N • Series S



NPT Thread

| Series | Tube OD PN | | Dimensions | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|------------|-----------|------------|--------|------|------|------|------|-----------------|------|------|------|--|-----------------------------|
| | (mm/in) | (bar/psi) | (mm/in) | Thread | D2 | D3 | i | L | L1 ¹ | L2 | L3 | S1 | | |
| S | 6 | 630 | 1/4 NPT | 4 | 4 | 10 | 23 | 31 | 16 | 26 | 12 | 17 | 3,19 | FI-WE-06S1/4N-W3 |
| | .24 | 9135 | | .16 | .16 | .39 | .91 | 1.22 | .63 | 1.02 | .47 | .67 | 7.02 | |
| 8 | 630 | 9135 | 1/4 NPT | 5 | 5 | 10 | 24 | 32 | 17 | 27 | 14 | 19 | 4,41 | FI-WE-08S1/4N-W3 |
| | .31 | | | .20 | .20 | .39 | .94 | 1.26 | .67 | 1.06 | .55 | .75 | 9.69 | |
| 8 | 630 | 9135 | 3/8 NPT | 5 | 8 | 10,5 | 25 | 33 | 18 | 28 | 17 | 19 | 7,80 | FI-WE-08S3/8N-W3 |
| | .31 | | | .20 | .31 | .41 | .98 | 1.30 | .71 | 1.10 | .67 | .75 | 17.16 | |
| 8 | 630 | 9135 | 1/2 NPT | 5 | 10 | 14 | 30 | 38 | 23 | 34 | 19 | 19 | 8,30 | FI-WE-08S1/2N-W3 |
| | .31 | | | .20 | .39 | .55 | 1.18 | 1.50 | .91 | 1.34 | .75 | .75 | 18.26 | |
| 10 | 630 | 9135 | 1/4 NPT | 7 | 5 | 10 | 25 | 34 | 17,5 | 28 | 17 | 22 | 6,17 | FI-WE-10S1/4N-W3 |
| | .39 | | | .28 | .20 | .39 | .98 | 1.34 | .69 | 1.10 | .67 | .87 | 13.57 | |
| 10 | 630 | 9135 | 3/8 NPT | 7 | 7 | 10,5 | 25 | 34 | 17,5 | 28 | 17 | 22 | 6,64 | FI-WE-10S3/8N-W3 |
| | .39 | | | .28 | .28 | .41 | .98 | 1.34 | .69 | 1.10 | .67 | .87 | 14.62 | |
| 12 | 630 | 9135 | 1/4 NPT | 8 | 5 | 15 | 29 | 38 | 21,5 | 29 | 17 | 24 | 7,87 | FI-WE-12S1/4N-W3 |
| | .47 | | | .31 | .20 | .59 | 1.14 | 1.50 | .85 | 1.14 | .67 | .94 | 17.31 | |
| 12 | 630 | 9135 | 3/8 NPT | 8 | 8 | 10,5 | 29 | 38 | 21,5 | 28 | 17 | 24 | 7,76 | FI-WE-12S3/8N-W3 |
| | .47 | | | .31 | .31 | .41 | 1.14 | 1.50 | .85 | 1.10 | .67 | .94 | 17.07 | |
| 12 | 630 | 9135 | 1/2 NPT | 8 | 10 | 14 | 30 | 39 | 22,5 | 34 | 19 | 24 | 11,23 | FI-WE-12S1/2N-W3 |
| | .47 | | | .31 | .39 | .55 | 1.18 | 1.54 | .89 | 1.34 | .75 | .94 | 24.70 | |
| 14 | 630 | 9135 | 1/2 NPT | 10 | 10 | 14 | 30 | 40 | 22 | 34 | 19 | 27 | 8,88 | FI-WE-14S1/2N-W3 |
| | .55 | | | .39 | .39 | .55 | 1.18 | 1.57 | .87 | 1.34 | .75 | 1.06 | 19.53 | |
| 16 | 630 | 9135 | 1/2 NPT | 12 | 12 | 14 | 33 | 43 | 24,5 | 36 | 24 | 30 | 14,05 | FI-WE-16S1/2N-W3 |
| | .63 | | | .47 | .47 | .55 | 1.30 | 1.69 | .96 | 1.42 | .94 | 1.18 | 30.90 | |
| 20 | 400 | 5800 | 3/4 NPT | 16 | 16 | 14 | 37 | 48 | 26,5 | 42 | 27 | 36 | 19,28 | FI-WE-20S3/4N-W3 |
| | .79 | | | .63 | .63 | .55 | 1.46 | 1.89 | 1.04 | 1.65 | 1.06 | 1.42 | 42.42 | |
| 25 | 400 | 5800 | 1 NPT | 20 | 20 | 17,5 | 42 | 54 | 30 | 48 | 36 | 46 | 33,76 | FI-WE-25S1N-W3 |
| | .98 | | | .79 | .79 | .69 | 1.65 | 2.13 | 1.18 | 1.89 | 1.42 | 1.81 | 74.26 | |
| 30 | 400 | 5800 | 1 1/4 NPT | 25 | 25 | 18 | 49 | 62 | 35,5 | 54 | 41 | 50 | 60,30 | FI-WE-30S1-1/4N-W3 |
| | 1.18 | | | .98 | .98 | .71 | 1.93 | 2.44 | 1.40 | 2.13 | 1.61 | 1.97 | 132.66 | |
| 38 | 315 | 4568 | 1 1/2 NPT | 32 | 32 | 18,5 | 58 | 73 | 40 | 61 | 50 | 60 | 91,80 | FI-WE-38S1-1/2N-W3 |
| | 1.50 | | | 1.26 | 1.26 | .73 | 2.28 | 2.87 | 1.57 | 2.40 | 1.97 | 2.36 | 201.96 | |

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.

Male stud acc. to ANSI/ASME B1.20.1-1983
 Port acc. to ANSI/ASME B1.20.1-1983

Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
 Please contact STAUFF prior to the assembly for further information.

Ordering Codes

***FI-WE*-10*L*1/4*N*-W3*-MS**

- * Male Stud Elbow **FI-WE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series: Extra-Light Series (page 66) **LL**
 Light Series (page 66) **L**
 Heavy Series (page 67) **S**
- * Thread Size: acc. to dimension table **1/4**
- Please always indicate thread sizes, e.g. 1/4!
- * Thread Type: NPT Thread **N**
- * Material Code: Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting: Fitting body only **—**
- Fitting body supplied with cutting ring and union nut **-MS**
- Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

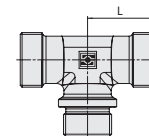
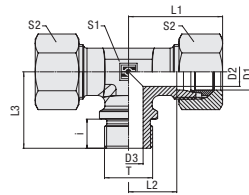
Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

C



Male Stud Branch Tee
Type FI-TE-...-R ▪ Series L / S



C

Ordering Codes

***FI-TE*-22*L*R*-W3*-MS**

| | | |
|---|--|----------------------|
| * Male Stud Branch Tee | | FI-TE |
| * Outside Tube Diameter D1 (in mm) | | -22 |
| * Series | Light Series Heavy Series | L S |
| * Thread Type | Whitworth Parallel Pipe Thread (BSPP) | R |
| If required, please indicate special sizes, e.g. R1/2! | | |
| * Material Code | Steel, zinc/nickel-plated | -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | | |
| * Assembling / Kitting | Fitting body only | — |
| | Fitting body supplied with cutting rings and union nuts | -MS |
| | Fitting body supplied with soft-sealing cutting rings and union nuts | -MSV |

Whitworth Parallel Pipe Thread (BSPP)

Metallic Sealing Edge

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | | | Torque (N·m/ft·lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|--------|------|------|------|------|------|-----------------|------|-------|--------|---------------|-----------------------|--|-----------------------------|
| | | | D1 | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | S1 | S2 | | | |
| L | 22 | 160 | G 3/4 | 19 | 18 | 16 | 35 | 44 | 27,5 | 42 | 27 | 36 | 180 | 23,90 | FI-TE-22LR-W3 | | |
| | .87 | 2320 | | .75 | .71 | .63 | 1.38 | 1.73 | 1.08 | 1.65 | 1.06 | 1.42 | 133.2 | 52.58 | | | |
| | 28 | 160 | G 1 | 24 | 23 | 18 | 38 | 47 | 30,5 | 48 | 36 | 41 | 330 | 37,50 | FI-TE-28LR-W3 | | |
| | 1.10 | 2320 | | .94 | .91 | .71 | 1.50 | 1.85 | 1.20 | 1.89 | 1.42 | 1.61 | 244.2 | 82.50 | | | |
| | 35 | 160 | G 1 1/4 | 30 | 30 | 20 | 45 | 56 | 34,5 | 54 | 41 | 50 | 540 | 56,50 | FI-TE-35LR-W3 | | |
| | 1.38 | 2320 | | 1.18 | 1.18 | .79 | 1.77 | 2.20 | 1.36 | 2.13 | 1.61 | 1.97 | 399.6 | 124.30 | | | |
| 42 | 160 | G 1 1/2 | 36 | 36 | 22 | 51 | 63 | 40 | 61 | 50 | 60 | 630 | 80,50 | FI-TE-42LR-W3 | | | |
| 1.65 | 2320 | | 1.42 | 1.42 | .87 | 2.01 | 2.48 | 1.57 | 2.40 | 1.97 | 2.36 | 466.2 | 177.10 | | | | |
| S | 20 | 400 | G 3/4 | 16 | 16 | 16 | 37 | 48 | 26,5 | 42 | 27 | 36 | 270 | 28,80 | FI-TE-20SR-W3 | | |
| | .79 | 5800 | | .63 | .63 | .63 | 1.46 | 1.89 | 1.04 | 1.65 | 1.06 | 1.42 | 199.8 | 63.36 | | | |
| | 25 | 250 | G 1 | 20 | 20 | 18 | 42 | 54 | 30 | 48 | 36 | 46 | 340 | 51,40 | FI-TE-25SR-W3 | | |
| | .98 | 3625 | | .79 | .79 | .71 | 1.65 | 2.13 | 1.18 | 1.89 | 1.42 | 1.81 | 251.6 | 113.08 | | | |
| | 30 | 160 | G 1 1/4 | 25 | 25 | 20 | 49 | 62 | 35,5 | 54 | 41 | 50 | 540 | 79,20 | FI-TE-30SR-W3 | | |
| | 1.18 | 2320 | | .98 | .98 | .79 | 1.93 | 2.44 | 1.40 | 2.13 | 1.61 | 1.97 | 399.6 | 174.24 | | | |
| | 38 | 160 | G 1 1/2 | 32 | 32 | 22 | 57 | 72 | 41 | 61 | 50 | 60 | 700 | 114,50 | FI-TE-38SR-W3 | | |
| | 1.50 | 2320 | | 1.26 | 1.26 | .87 | 2.24 | 2.83 | 1.61 | 2.40 | 1.97 | 2.36 | 518.0 | 251.90 | | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting rings and union nuts.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-2 (Form B) / ISO 1179-4 (Type B)
Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

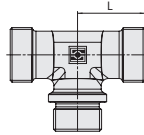
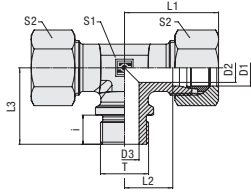
Please contact STAUFF prior to the assembly for further information.

Connecting Parts

| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |



Male Stud Branch Tee
Type FI-TE-...-M • Series L / S



C

Metallic Sealing Edge

Metric Parallel Thread

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | | | | Torque (Nm/ft-lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|------|------|------|------|-----------------|------|------|-------|--------|----------------------|--|-----------------------------|
| | | | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | S1 | S2 | | | |
| L | 22 | 160 | M 26 x 1,5 | 19 | 18 | 16 | 35 | 44 | 27,5 | 42 | 27 | 36 | 190 | 22,20 | FI-TE-22LM-W3 | |
| | .87 | 2320 | | .75 | .71 | .63 | 1.38 | 1.73 | 1.08 | 1.65 | 1.06 | 1.42 | 140.6 | 48.84 | | |
| | 28 | 160 | M 33 x 2 | 24 | 23 | 18 | 38 | 47 | 30,5 | 48 | 36 | 41 | 340 | 37,60 | FI-TE-28LM-W3 | |
| | 1.10 | 2320 | | .94 | .91 | .71 | 1.50 | 1.85 | 1.20 | 1.89 | 1.42 | 1.61 | 251.6 | 82.72 | | |
| | 35 | 160 | M 42 x 2 | 30 | 30 | 20 | 45 | 56 | 34,5 | 54 | 41 | 50 | 500 | 56,90 | FI-TE-35LM-W3 | |
| | 1.38 | 2320 | | 1.18 | 1.18 | .79 | 1.77 | 2.20 | 1.36 | 2.13 | 1.61 | 1.97 | 370.0 | 125.18 | | |
| 42 | 160 | M 48 x 2 | 36 | 36 | 22 | 51 | 63 | 40 | 61 | 50 | 60 | 630 | 81,10 | FI-TE-42LM-W3 | | |
| 1.65 | 2320 | | 1.42 | 1.42 | .87 | 2.01 | 2.48 | 1.57 | 2.40 | 1.97 | 2.36 | 466.2 | 178.42 | | | |
| S | 20 | 400 | M 27 x 2 | 16 | 16 | 16 | 37 | 48 | 26,5 | 42 | 27 | 36 | 270 | 29,10 | FI-TE-20SM-W3 | |
| | .79 | 5800 | | .63 | .63 | .63 | 1.46 | 1.89 | 1.04 | 1.65 | 1.06 | 1.42 | 199.8 | 64.02 | | |
| | 25 | 250 | M 33 x 2 | 20 | 20 | 18 | 42 | 54 | 30 | 48 | 36 | 46 | 410 | 51,10 | FI-TE-25SM-W3 | |
| | .98 | 3625 | | .79 | .79 | .71 | 1.65 | 2.13 | 1.18 | 1.89 | 1.42 | 1.81 | 303.4 | 112.42 | | |
| | 30 | 160 | M 42 x 2 | 25 | 25 | 20 | 49 | 62 | 35,5 | 54 | 41 | 50 | 540 | 79,60 | FI-TE-30SM-W3 | |
| | 1.18 | 2320 | | .98 | .98 | .79 | 1.93 | 2.44 | 1.40 | 2.13 | 1.61 | 1.97 | 399.6 | 175.12 | | |
| | 38 | 160 | M 48 x 2 | 32 | 32 | 22 | 57 | 72 | 41 | 61 | 50 | 60 | 700 | 115,10 | FI-TE-38SM-W3 | |
| | 1.50 | 2320 | | 1.26 | 1.26 | .87 | 2.24 | 2.83 | 1.61 | 2.40 | 1.97 | 2.36 | 518.0 | 253.22 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting rings and union nuts.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-1 (Form B) / ISO 9974-3 (Type B)

Port acc. to DIN 3852-1 (Form X) / ISO 9974-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes

***FI-TE*-22*L*M*-W3*-MS**

- * Male Stud Branch Tee **FI-TE**
- * Outside Tube Diameter D1 (in mm) **-22**
- * Series Light Series **L**
Heavy Series **S**
- * Thread Type Metric Parallel Thread **M**

If required, please indicate special sizes, e.g. M27x2!

- * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

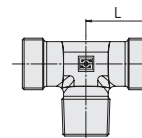
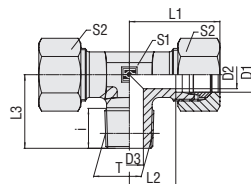
- * Assembling / Kitting Fitting body only **—**
Fitting body supplied with cutting rings and union nuts **-MS**
Fitting body supplied with soft-sealing cutting rings and union nuts **-MSV**

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35



Male Stud Branch Tee
Type FI-TE-...-Rk ▪ Series LL / L / S



C

Whitworth Taper Pipe Thread (BSPT)

Ordering Codes

***FI-TE*-10*L*Rk*-W3*-MS**

- * Male Stud Branch Tee **FI-TE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **LL**
 Extra-Light Series **L**
 Light Series **S**
 Heavy Series
- * Thread Type **Rk**
 Whitworth Taper Pipe Thread (BSPT)
- If required, please indicate special sizes, e.g. R1/8k!
- * Material Code **-W3**
 Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
 Fitting body only
- Fitting body supplied with cutting rings and union nuts **-MS**
- Fitting body supplied with soft-sealing cutting rings and union nuts **-MSV**

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|--------|-----|-----|------|------|------|-----------------|-----|------|--|-----------------------------|
| | | | D1 | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | | |
| LL | 4 | 100 | R 1/8 keg. | 3 | 4 | 8 | 15 | 21 | 11 | 17 | 9 | 10 | 1,59 | FI-TE-04LLRk-W3 |
| | .16 | 1450 | | .12 | .16 | .31 | .59 | .83 | .43 | .67 | .35 | .39 | 3,50 | |
| | 6 | 100 | R 1/8 keg. | 4,5 | 4,5 | 8 | 15 | 21 | 9,5 | 17 | 9 | 12 | 1,34 | FI-TE-06LLRk-W3 |
| | .24 | 1450 | | .18 | .18 | .31 | .59 | .83 | .37 | .67 | .35 | .47 | 2,94 | |
| L | 8 | 100 | R 1/8 keg. | 6 | 6 | 8 | 17 | 23 | 11,5 | 20 | 12 | 14 | 1,88 | FI-TE-08LLRk-W3 |
| | .31 | 1450 | | .24 | .24 | .31 | .67 | .91 | .45 | .79 | .47 | .55 | 4,14 | |
| | 6 | 315 | R 1/8 keg. | 4 | 4 | 8 | 19 | 27 | 12 | 20 | 12 | 14 | 2,73 | FI-TE-06LRk-W3 |
| | .24 | 4568 | | .16 | .16 | .31 | .75 | 1.06 | .47 | .79 | .47 | .55 | 6,00 | |
| Rk | 8 | 315 | R 1/4 keg. | 6 | 6 | 12 | 21 | 29 | 14 | 26 | 12 | 17 | 3,80 | FI-TE-08LRk-W3 |
| | .31 | 4568 | | .24 | .24 | .47 | .83 | 1.14 | .55 | 1.02 | .47 | .67 | 8,36 | |
| | 10 | 315 | R 1/4 keg. | 8 | 7 | 12 | 22 | 30 | 15 | 27 | 14 | 19 | 4,70 | FI-TE-10LRk-W3 |
| | .39 | 4568 | | .31 | .28 | .47 | .87 | 1.18 | .59 | 1.06 | .55 | .75 | 10,34 | |
| S | 12 | 315 | R 3/8 keg. | 10 | 9 | 12 | 24 | 32 | 17 | 28 | 17 | 22 | 6,28 | FI-TE-12LRk-W3 |
| | .47 | 4568 | | .39 | .35 | .47 | .94 | 1.26 | .67 | 1.10 | .67 | .87 | 13,82 | |
| | 15 | 315 | R 1/2 keg. | 12 | 11 | 14 | 28 | 36 | 21 | 34 | 19 | 27 | 11,80 | FI-TE-15LRk-W3 |
| | .59 | 4568 | | .47 | .43 | .55 | 1.10 | 1.42 | .83 | 1.34 | .75 | 1.06 | 25,96 | |
| MS | 18 | 315 | R 1/2 keg. | 15 | 14 | 14 | 31 | 40 | 23,5 | 36 | 24 | 32 | 16,30 | FI-TE-18LRk-W3 |
| | .71 | 4568 | | .59 | .55 | .55 | 1.22 | 1.57 | .93 | 1.42 | .94 | 1.26 | 35,86 | |
| | 6 | 400 | R 1/4 keg. | 4 | 4 | 12 | 23 | 31 | 16 | 26 | 12 | 17 | 5,00 | FI-TE-06SRk-W3 |
| | .24 | 5800 | | .16 | .16 | .47 | .91 | 1.22 | .63 | 1.02 | .47 | .67 | 11,00 | |
| MSV | 8 | 400 | R 1/4 keg. | 5 | 5 | 12 | 24 | 32 | 17 | 27 | 14 | 19 | 6,27 | FI-TE-08SRk-W3 |
| | .31 | 5800 | | .20 | .20 | .47 | .94 | 1.26 | .67 | 1.06 | .55 | .75 | 13,80 | |
| | 10 | 400 | R 3/8 keg. | 7 | 7 | 12 | 25 | 34 | 17,5 | 28 | 17 | 22 | 8,50 | FI-TE-10SRk-W3 |
| | .39 | 5800 | | .28 | .28 | .47 | .98 | 1.34 | .69 | 1.10 | .67 | .87 | 18,70 | |
| MSV | 12 | 400 | R 3/8 keg. | 8 | 8 | 12 | 29 | 38 | 21,5 | 28 | 17 | 24 | 11,60 | FI-TE-12SRk-W3 |
| | .47 | 5800 | | .31 | .31 | .47 | 1.14 | 1.50 | .85 | 1.10 | .67 | .94 | 25,52 | |
| | 14 | 400 | R 1/2 keg. | 10 | 10 | 14 | 30 | 40 | 22 | 32 | 19 | 27 | 15,47 | FI-TE-14SRk-W3 |
| | .55 | 5800 | | .39 | .39 | .55 | 1.18 | 1.57 | .87 | 1.26 | .75 | 1.06 | 34,03 | |
| MSV | 16 | 400 | R 1/2 keg. | 12 | 12 | 14 | 33 | 43 | 24,5 | 32 | 24 | 30 | 18,90 | FI-TE-16SRk-W3 |
| | .63 | 5800 | | .47 | .47 | .55 | 1.30 | 1.69 | .96 | 1.26 | .94 | 1.18 | 41,58 | |

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

¹ Approximate dimension in assembled condition.
² Weight excluding cutting rings and union nuts.
³ Standard scope of delivery: Fitting body only.

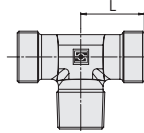
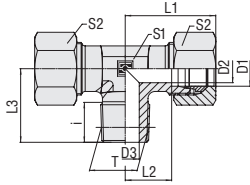
Male stud acc. to DIN 3852-2 (Form C)
 Port acc. to DIN 3852-2 (Form Z)

Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
 Please contact STAUFF prior to the assembly for further information.



Male Stud Branch Tee
Type FI-TE-...-Mk ■ Series LL / L / S



Metric Taper Thread

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | |
|--------|--------------------|-----------------|-----------------------|-----------------|-----|------|------|------|-----------------|------|------|-------|--|-----------------------------|----------------|
| | | | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | S1 | | | S2 |
| LL | 4 | 100 | M 8 x 1 keg. | 3 | 3,5 | 8 | 15 | 21 | 11 | 17 | 9 | 10 | 1,27 | FI-TE-04LLMk-W3 | |
| | .16 | 1450 | | .12 | .14 | .31 | .59 | .83 | .43 | .67 | .35 | .39 | 2,79 | | |
| | 6 | 100 | M 10 x 1 keg. | 4,5 | 4,5 | 8 | 15 | 21 | 9,5 | 17 | 9 | 12 | 1,62 | FI-TE-06LLMk-W3 | |
| | .24 | 1450 | | .18 | .18 | .31 | .59 | .83 | .37 | .67 | .35 | .47 | 3,56 | | |
| L | 8 | 100 | M 10 x 1 keg. | 6 | 6 | 8 | 17 | 23 | 11,5 | 20 | 12 | 14 | 2,42 | FI-TE-08LLMk-W3 | |
| | .31 | 1450 | | .24 | .24 | .31 | .67 | .91 | .45 | .79 | .47 | .55 | 5,31 | | |
| | 6 | 315 | M 10 x 1 keg. | 4 | 4 | 8 | 19 | 27 | 12 | 20 | 12 | 14 | 2,76 | FI-TE-06LMk-W3 | |
| | .24 | 4568 | | .16 | .16 | .31 | .75 | 1.06 | .47 | .79 | .47 | .55 | 6,08 | | |
| S | 8 | 315 | M 12 x 1,5 keg. | 6 | 6 | 12 | 21 | 29 | 14 | 26 | 12 | 17 | 3,45 | FI-TE-08LMk-W3 | |
| | .31 | 4568 | | .24 | .24 | .47 | .83 | 1.14 | .55 | 1.02 | .47 | .67 | 7,59 | | |
| | 10 | 315 | M 14 x 1,5 keg. | 8 | 7 | 12 | 22 | 30 | 15 | 27 | 14 | 19 | 4,72 | FI-TE-10LMk-W3 | |
| | .39 | 4568 | | .31 | .28 | .47 | .87 | 1.18 | .59 | 1.06 | .55 | .75 | 10,38 | | |
| | 12 | 315 | M 16 x 1,5 keg. | 10 | 9 | 12 | 24 | 32 | 17 | 28 | 17 | 22 | 7,19 | FI-TE-12LMk-W3 | |
| | .47 | 4568 | | .39 | .35 | .47 | .94 | 1.26 | .67 | 1.10 | .67 | .87 | 15,81 | | |
| | 15 | 315 | M 18 x 1,5 keg. | 12 | 11 | 12 | 28 | 36 | 21 | 32 | 19 | 27 | 11,86 | FI-TE-15LMk-W3 | |
| | .59 | 4568 | | .47 | .43 | .47 | 1.10 | 1.42 | .83 | 1.26 | .75 | 1.06 | 26,10 | | |
| | 18 | 315 | M 22 x 1,5 keg. | 15 | 14 | 14 | 31 | 40 | 23,5 | 36 | 24 | 32 | 17,50 | FI-TE-18LMk-W3 | |
| | .71 | 4568 | | .59 | .55 | .55 | 1.22 | 1.57 | .93 | 1.42 | .94 | 1.26 | 38,49 | | |
| | S | 6 | 400 | M 12 x 1,5 keg. | 4 | 4 | 12 | 23 | 31 | 16 | 26 | 12 | 17 | 5,57 | FI-TE-06SMk-W3 |
| | | .24 | 5800 | | .16 | .16 | .47 | .91 | 1.22 | .63 | 1.02 | .47 | .67 | 12,26 | |
| 8 | | 400 | M 14 x 1,5 keg. | 5 | 5 | 12 | 24 | 32 | 17 | 27 | 14 | 19 | 7,54 | FI-TE-08SMk-W3 | |
| .31 | | 5800 | | .20 | .20 | .47 | .94 | 1.26 | .67 | 1.06 | .55 | .75 | 16,58 | | |
| 10 | | 400 | M 16 x 1,5 keg. | 7 | 7 | 12 | 25 | 34 | 17,5 | 28 | 17 | 22 | 9,38 | FI-TE-10SMk-W3 | |
| .39 | | 5800 | | .28 | .28 | .47 | .98 | 1.34 | .69 | 1.10 | .67 | .87 | 20,64 | | |
| 12 | | 400 | M 18 x 1,5 keg. | 8 | 8 | 12 | 29 | 38 | 21,5 | 28 | 17 | 24 | 10,71 | FI-TE-12SMk-W3 | |
| .47 | | 5800 | | .31 | .31 | .47 | 1.14 | 1.50 | .85 | 1.10 | .67 | .94 | 23,56 | | |
| 14 | | 400 | M 20 x 1,5 keg. | 10 | 10 | 14 | 30 | 40 | 22 | 32 | 19 | 27 | 15,11 | FI-TE-14SMk-W3 | |
| .55 | | 5800 | | .39 | .39 | .55 | 1.18 | 1.57 | .87 | 1.26 | .75 | 1.06 | 33,25 | | |
| 16 | 400 | M 22 x 1,5 keg. | 12 | 12 | 14 | 33 | 43 | 24,5 | 32 | 24 | 30 | 20,16 | FI-TE-16SMk-W3 | | |
| .63 | 5800 | | .47 | .47 | .55 | 1.30 | 1.69 | .96 | 1.26 | .94 | 1.18 | 44,35 | | | |

¹ Approximate dimension in assembled condition.
² Weight excluding cutting rings and union nuts.
³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-1 (Form C)
 Port acc. to DIN 3852-1 (Form Z)

Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
 Please contact STAUFF prior to the assembly for further information.

Ordering Codes

***FI-TE*-10*L*Mk*-W3*-MS**

- * Male Stud Branch Tee **FI-TE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series
 - Extra-Light Series **LL**
 - Light Series **L**
 - Heavy Series **S**
- * Thread Type Metric Taper Thread **Mk**

If required, please indicate special sizes, e.g. M12x1.5 !

- * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

- * Assembling / Kitting
 - Fitting body only **—**
 - Fitting body supplied with cutting rings and union nuts **-MS**
 - Fitting body supplied with soft-sealing cutting rings and union nuts **-MSV**

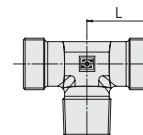
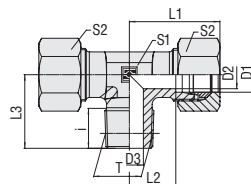
Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

C



Male Stud Branch Tee
Type FI-TE-...-N • Series LL / L



C

NPT-Thread

Ordering Codes

***FI-TE*-10*L*1/4N*-W3*-MS**

- * Male Stud Branch Tee **FI-TE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **LL**
 Extra-Light Series (page 72)
 Light Series (page 72)
 Heavy Series (page 73) **L**
S
- * Thread Size **1/4**
 acc. to dimension table
 Please always indicate thread sizes, e.g. 1/4!
- * Thread Type **N**
 NPT Thread
- * Material Code **-W3**
 Steel, zinc/nickel-plated
 Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
 Fitting body only
 Fitting body supplied with cutting rings and union nuts **-MS**
 Fitting body supplied with soft-sealing cutting rings and union nuts **-MSV**

| Series | Tube OD PN | | Dimensions | | | | | | | | | | Weight (^{kg} / _{lbs}) Ca. per 100 ² | Ordering Codes ³ |
|--------|------------|------------------------------------|------------|------|------|------|------|------|-----------------|------|------|------|--|-----------------------------|
| | (mm/in) | (^{mm} / _{psi}) | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | S1 | | |
| LL | 4 | 100 | 1/8 NPT | 3 | 3 | 7 | 15 | 21 | 11 | 17 | 9 | 10 | 1,60 | FI-TE-04LL1/8N-W3 |
| | .16 | 1450 | | .12 | .12 | .28 | .59 | .83 | .43 | .67 | .35 | .39 | 3.52 | |
| | 6 | 100 | 1/8 NPT | 4,5 | 4,5 | 7 | 15 | 21 | 9,5 | 17 | 9 | 12 | 1,50 | FI-TE-06LL1/8N-W3 |
| | .24 | 1450 | | .18 | .18 | .28 | .59 | .83 | .37 | .67 | .35 | .47 | 3.30 | |
| LL | 8 | 100 | 1/8 NPT | 5 | 5 | 7 | 17 | 23 | 11,5 | 20 | 12 | 14 | 2,50 | FI-TE-08LL1/8N-W3 |
| | .31 | 1450 | | .20 | .20 | .28 | .67 | .91 | .45 | .79 | .47 | .55 | 5.50 | |
| L | 6 | 315 | 1/8 NPT | 4 | 4 | 7 | 19 | 27 | 12 | 20 | 12 | 14 | 3,00 | FI-TE-06L1/8N-W3 |
| | .24 | 4568 | | .16 | .16 | .28 | .75 | 1.06 | .47 | .79 | .47 | .55 | 6.60 | |
| | 6 | 315 | 1/4 NPT | 4 | 4 | 10 | 21 | 29 | 14 | 26 | 12 | 14 | 4,40 | FI-TE-06L1/4N-W3 |
| | .24 | 4568 | | .16 | .16 | .39 | .83 | 1.14 | .55 | 1.02 | .47 | .55 | 9.68 | |
| | 8 | 315 | 1/4 NPT | 6 | 6 | 10 | 21 | 29 | 14 | 26 | 12 | 17 | 4,20 | FI-TE-08L1/4N-W3 |
| | .31 | 4568 | | .24 | .24 | .39 | .83 | 1.14 | .55 | 1.02 | .47 | .67 | 9.24 | |
| | 10 | 315 | 1/4 NPT | 7 | 7 | 10 | 22 | 30 | 15 | 27 | 14 | 19 | 5,00 | FI-TE-10L1/4N-W3 |
| | .39 | 4568 | | .28 | .28 | .39 | .87 | 1.18 | .59 | 1.06 | .55 | .75 | 11.00 | |
| | 12 | 315 | 3/8 NPT | 10 | 10 | 10,5 | 24 | 32 | 17 | 28 | 17 | 22 | 6,50 | FI-TE-12L3/8N-W3 |
| | .47 | 4568 | | .39 | .39 | .41 | .94 | 1.26 | .67 | 1.10 | .67 | .87 | 14.30 | |
| | 15 | 315 | 1/2 NPT | 12 | 12 | 14 | 28 | 36 | 21 | 36 | 19 | 27 | 12,10 | FI-TE-15L1/2N-W3 |
| | .59 | 4568 | | .47 | .47 | .55 | 1.10 | 1.42 | .83 | 1.42 | .75 | 1.06 | 26.62 | |
| | 18 | 315 | 1/2 NPT | 15 | 12 | 14 | 31 | 40 | 23,5 | 36 | 24 | 32 | 16,30 | FI-TE-18L1/2N-W3 |
| | .71 | 4568 | | .59 | .47 | .55 | 1.22 | 1.57 | .93 | 1.42 | .94 | 1.26 | 35.86 | |
| | 22 | 160 | 3/4 NPT | 19 | 18 | 14 | 35 | 44 | 27,5 | 42 | 27 | 36 | 21,80 | FI-TE-22L3/4N-W3 |
| | .87 | 2320 | | .75 | .71 | .55 | 1.38 | 1.73 | 1.08 | 1.65 | 1.06 | 1.42 | 47.96 | |
| | 28 | 160 | 1 NPT | 24 | 21 | 17,5 | 38 | 47 | 30,5 | 48 | 36 | 41 | 39,00 | FI-TE-28L1N-W3 |
| | 1.10 | 2320 | | .94 | .83 | .69 | 1.50 | 1.85 | 1.20 | 1.89 | 1.42 | 1.61 | 85.80 | |
| | 35 | 160 | 1 1/4 NPT | 30 | 28 | 18 | 46 | 57 | 35,5 | 54 | 41 | 50 | 59,40 | FI-TE-35L1-1/4N-W3 |
| | 1.38 | 2320 | | 1.18 | 1.10 | .71 | 1.81 | 2.24 | 1.40 | 2.13 | 1.61 | 1.97 | 130.68 | |
| | 42 | 160 | 1 1/2 NPT | 36 | 34 | 18,5 | 51 | 63 | 40 | 61 | 50 | 60 | 84,10 | FI-TE-42L1-1/2N-W3 |
| | 1.65 | 2320 | | 1.42 | 1.34 | .73 | 2.01 | 2.48 | 1.57 | 2.40 | 1.97 | 2.36 | 185.02 | |

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

¹ Approximate dimension in assembled condition.

² Weight excluding cutting rings and union nuts.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to ANSI/ASME B1.20.1-1983

Port acc. to ANSI/ASME B1.20.1-1983

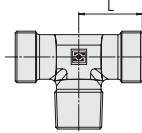
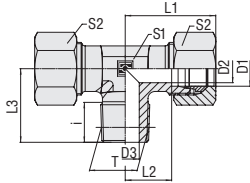
Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.



Male Stud Branch Tee
Type FI-TE-...-N • Series S



NPT Thread

| Series | Tube OD PN | | Dimensions | | | | | | | | | | Weight (^{kg} / _{lbs}) ca. per 100 ² | Ordering Codes ³ |
|--------|------------|-------------------------------------|------------|------|------|------|------|------|-----------------|------|------|------|--|-----------------------------|
| | (mm/in) | (^{bar} / _{psi}) | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | S1 | | |
| S | 6 | 630 | 1/4 NPT | 4 | 4 | 10 | 23 | 31 | 16 | 26 | 12 | 17 | 5,50 | FI-TE-06S1/4N-W3 |
| | .24 | 9135 | | .16 | .16 | .39 | .91 | 1.22 | .63 | 1.02 | .47 | .67 | 12.10 | |
| | 8 | 630 | 1/4 NPT | 5 | 5 | 10 | 24 | 32 | 17 | 27 | 14 | 19 | 6,80 | FI-TE-08S1/4N-W3 |
| | .31 | 9135 | | .20 | .20 | .39 | .94 | 1.26 | .67 | 1.06 | .55 | .75 | 14.96 | |
| | 10 | 630 | 3/8 NPT | 7 | 7 | 10,5 | 25 | 34 | 17,5 | 28 | 17 | 22 | 8,80 | FI-TE-10S3/8N-W3 |
| | .39 | 9135 | | .28 | .28 | .41 | .98 | 1.34 | .69 | 1.10 | .67 | .87 | 19.36 | |
| | 12 | 630 | 3/8 NPT | 8 | 8 | 10,5 | 29 | 38 | 21,5 | 28 | 22 | 24 | 11,10 | FI-TE-12S3/8N-W3 |
| | .47 | 9135 | | .31 | .31 | .41 | 1.14 | 1.50 | .85 | 1.10 | .87 | .94 | 24.42 | |
| | 14 | 630 | 1/2 NPT | 10 | 10 | 14 | 30 | 40 | 22 | 34 | 19 | 27 | 15,10 | FI-TE-14S1/2N-W3 |
| | .55 | 9135 | | .39 | .39 | .55 | 1.18 | 1.57 | .87 | 1.34 | .75 | 1.06 | 33.22 | |
| | 16 | 630 | 1/2 NPT | 12 | 12 | 14 | 33 | 43 | 24,5 | 36 | 24 | 30 | 19,00 | FI-TE-16S1/2N-W3 |
| | .63 | 9135 | | .47 | .47 | .55 | 1.30 | 1.69 | .96 | 1.42 | .94 | 1.18 | 41.80 | |
| | 20 | 400 | 3/4 NPT | 16 | 16 | 14 | 37 | 48 | 26,5 | 42 | 27 | 36 | 28,20 | FI-TE-20S3/4N-W3 |
| | .79 | 5800 | | .63 | .63 | .55 | 1.46 | 1.89 | 1.04 | 1.65 | 1.06 | 1.42 | 62.04 | |
| | 25 | 400 | 1 NPT | 20 | 20 | 17,5 | 42 | 54 | 30 | 48 | 36 | 46 | 50,40 | FI-TE-25S1N-W3 |
| | .98 | 5800 | | .79 | .79 | .69 | 1.65 | 2.13 | 1.18 | 1.89 | 1.42 | 1.81 | 110.88 | |
| | 30 | 400 | 1 1/4 NPT | 25 | 25 | 18 | 49 | 62 | 35,5 | 54 | 41 | 50 | 78,20 | FI-TE-30S1-1/4N-W3 |
| | 1.18 | 5800 | | .98 | .98 | .71 | 1.93 | 2.44 | 1.40 | 2.13 | 1.61 | 1.97 | 172.04 | |
| | 38 | 400 | 1 1/2 NPT | 32 | 32 | 18,5 | 57 | 72 | 41 | 61 | 50 | 60 | 113,30 | FI-TE-38S1-1/2N-W3 |
| | 1.50 | 5800 | | 1.26 | 1.26 | .73 | 2.24 | 2.83 | 1.61 | 2.40 | 1.97 | 2.36 | 249.26 | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting rings and union nuts.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to ANSI/ASME B1.20.1-1983

Port acc. to ANSI/ASME B1.20.1-1983

Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes

***FI-TE*-10*L*1/4N*-W3*-MS**

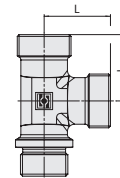
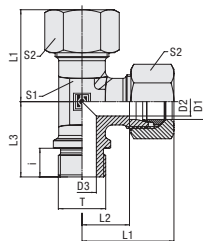
- * Male Stud Branch Tee **FI-TE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Extra-Light Series (page 72) **LL**
Light Series (page 72) **L**
Heavy Series (page 73) **S**
- * Thread Size acc. to dimension table **1/4**
- Please always indicate thread sizes, e.g. 1/4!
- * Thread Type NPT Thread **N**
- * Material Code Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body only **—**
- Fitting body supplied with cutting rings and union nuts **-MS**
- Fitting body supplied with soft-sealing cutting rings and union nuts **-MSV**

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35



Male Stud Barrel Tee
Type FI-LE-...-R • Series L / S



C

Whitworth Parallel Pipe Thread (BSPP)

Metallic Sealing Edge

Ordering Codes

***FI-LE*-22*L*R*-W3*-MS**

- * Male Stud Barrel Tee **FI-LE**
- * Outside Tube Diameter D1 (in mm) **-22**
- * Series **L**
Light Series
Heavy Series **S**
- * Thread Type **R**
Whitworth Parallel Pipe Thread (BSPP)
- If required, please indicate special sizes, e.g. R1/2!
- * Material Code **-W3**
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
Fitting body only
- Fitting body supplied with cutting rings and union nuts **-MS**
- Fitting body supplied with soft-sealing cutting rings and union nuts **-MSV**

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | | Torque (N·m/ft·lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|--------|------|------|------|------|------|-----------------|------|-------|--------|-----------------------|--|-----------------------------|
| | | | D1 | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | S1 | | | |
| L | 22 | 160 | G 3/4 | 18 | 18 | 16 | 35 | 44 | 27,5 | 42 | 27 | 36 | 180 | 25,01 | FI-LE-22LR-W3 | |
| | .87 | 2320 | | .71 | .71 | .63 | 1.38 | 1.73 | 1.08 | 1.65 | 1.06 | 1.42 | 133.2 | 55.01 | | |
| | 28 | 160 | G 1 | 23 | 23 | 18 | 38 | 47 | 30,5 | 48 | 36 | 41 | 330 | 40,60 | FI-LE-28LR-W3 | |
| | 1.10 | 2320 | | .91 | .91 | .71 | 1.50 | 1.85 | 1.20 | 1.89 | 1.42 | 1.61 | 244.2 | 89.32 | | |
| | 35 | 160 | G 1 1/4 | 30 | 30 | 20 | 45 | 56 | 34,5 | 54 | 41 | 50 | 540 | 61,96 | FI-LE-35LR-W3 | |
| | 1.38 | 2320 | | 1.18 | 1.18 | .79 | 1.77 | 2.20 | 1.36 | 2.13 | 1.61 | 1.97 | 399.6 | 136.32 | | |
| 42 | 160 | G 1 1/2 | 36 | 36 | 22 | 51 | 63 | 40 | 61 | 50 | 60 | 630 | 100,41 | FI-LE-42LR-W3 | | |
| 1.65 | 2320 | | 1.42 | 1.42 | .87 | 2.01 | 2.48 | 1.57 | 2.40 | 1.97 | 2.36 | 466.2 | 220.90 | | | |
| S | 20 | 400 | G 3/4 | 16 | 16 | 16 | 37 | 48 | 26,5 | 42 | 27 | 36 | 270 | 31,72 | FI-LE-20SR-W3 | |
| | .79 | 5800 | | .63 | .63 | .63 | 1.46 | 1.89 | 1.04 | 1.65 | 1.06 | 1.42 | 199.8 | 69.78 | | |
| | 25 | 250 | G 1 | 20 | 20 | 18 | 42 | 54 | 30 | 48 | 36 | 46 | 340 | 54,62 | FI-LE-25SR-W3 | |
| | .98 | 3625 | | .79 | .79 | .71 | 1.65 | 2.13 | 1.18 | 1.89 | 1.42 | 1.81 | 251.6 | 120.16 | | |
| | 30 | 160 | G 1 1/4 | 25 | 25 | 20 | 49 | 62 | 35,5 | 54 | 41 | 50 | 540 | 52,00 | FI-LE-30SR-W3 | |
| | 1.18 | 2320 | | .98 | .98 | .79 | 1.93 | 2.44 | 1.40 | 2.13 | 1.61 | 1.97 | 399.6 | 114.40 | | |
| 38 | 160 | G 1 1/2 | 32 | 32 | 22 | 57 | 72 | 41 | 61 | 50 | 60 | 700 | 134,44 | FI-LE-38SR-W3 | | |
| 1.50 | 2320 | | 1.26 | 1.26 | .87 | 2.24 | 2.83 | 1.61 | 2.40 | 1.97 | 2.36 | 518.0 | 295.76 | | | |

¹ Approximate dimension in assembled condition.
² Weight excluding cutting rings and union nuts.
³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-2 (Form B) / ISO 1179-4 (Type B)
 Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

Torque recommendations for Steel mating material.

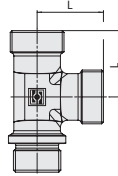
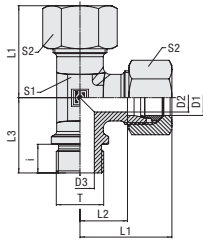
Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
 Please contact STAUFF prior to the assembly for further information.

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35



Male Stud Barrel Tee
Type FI-LE-...-M • Series L / S



C

Metallic Sealing Edge

Metric Parallel Thread

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | | | | Torque (Nm/ft-lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|------|------|------|------|-----------------|------|------|-------|--------|----------------------|--|-----------------------------|
| | | | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | S1 | S2 | | | |
| L | 22 | 160 | M 26 x 1,5 | 18 | 18 | 16 | 35 | 44 | 27,5 | 42 | 27 | 36 | 190 | 25,01 | FI-LE-22LM-W3 | |
| | .87 | 2320 | | .71 | .71 | .63 | 1.38 | 1.73 | 1.08 | 1.65 | 1.06 | 1.42 | 140.6 | 55.01 | | |
| | 28 | 160 | M 33 x 2 | 23 | 23 | 18 | 38 | 47 | 30,5 | 48 | 27 | 41 | 340 | 40,60 | FI-LE-28LM-W3 | |
| | 1.10 | 2320 | | .91 | .91 | .71 | 1.50 | 1.85 | 1.20 | 1.89 | 1.06 | 1.61 | 251.6 | 89.32 | | |
| | 35 | 160 | M 42 x 2 | 30 | 30 | 20 | 45 | 56 | 34,5 | 54 | 41 | 50 | 500 | 61,96 | FI-LE-35LM-W3 | |
| | 1.38 | 2320 | | 1.18 | 1.18 | .79 | 1.77 | 2.20 | 1.36 | 2.13 | 1.61 | 1.97 | 370.0 | 136.32 | | |
| 42 | 160 | M 48 x 2 | 36 | 36 | 22 | 51 | 63 | 40 | 61 | 50 | 60 | 630 | 100,41 | FI-LE-42LM-W3 | | |
| 1.65 | 2320 | | 1.42 | 1.42 | .87 | 2.01 | 2.48 | 1.57 | 2.40 | 1.97 | 2.36 | 466.2 | 220.90 | | | |
| S | 20 | 400 | M 27 x 2 | 16 | 16 | 16 | 37 | 48 | 26,5 | 42 | 27 | 36 | 270 | 31,72 | FI-LE-20SM-W3 | |
| | .79 | 5800 | | .63 | .63 | .63 | 1.46 | 1.89 | 1.04 | 1.65 | 1.06 | 1.42 | 199.8 | 69.78 | | |
| | 25 | 250 | M 33 x 2 | 20 | 20 | 18 | 42 | 54 | 30 | 48 | 36 | 46 | 410 | 54,62 | FI-LE-25SM-W3 | |
| | .98 | 3625 | | .79 | .79 | .71 | 1.65 | 2.13 | 1.18 | 1.89 | 1.42 | 1.81 | 303.4 | 120.16 | | |
| | 30 | 160 | M 42 x 2 | 25 | 25 | 20 | 49 | 62 | 35,5 | 54 | 41 | 50 | 540 | 52,00 | FI-LE-30SM-W3 | |
| | 1.18 | 2320 | | .98 | .98 | .79 | 1.93 | 2.44 | 1.40 | 2.13 | 1.61 | 1.97 | 399.6 | 114.40 | | |
| | 38 | 160 | M 48 x 2 | 32 | 32 | 22 | 57 | 72 | 41 | 61 | 50 | 60 | 700 | 134,44 | FI-LE-38SM-W3 | |
| 1.50 | 2320 | 1.26 | | 1.26 | .87 | 2.24 | 2.83 | 1.61 | 2.40 | 1.97 | 2.36 | 518.0 | 295.76 | | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting rings and union nuts.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-1 (Form B) / ISO 9974-3 (Type B)
Port acc. to DIN 3852-1 (Form X) / ISO 9974-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes

***FI-LE*-22*L*M*-W3*-MS**

- * Male Stud Barrel Tee **FI-LE**
- * Outside Tube Diameter D1 (in mm) **-22**
- * Series Light Series **L**
Heavy Series **S**
- * Thread Type Metric Parallel Thread **M**

If required, please indicate special sizes, e.g. M27x2!

- * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

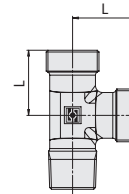
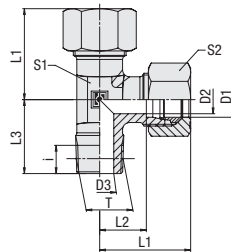
- * Assembling / Kitting Fitting body only **—**
Fitting body supplied with cutting rings and union nuts **-MS**
Fitting body supplied with soft-sealing cutting rings and union nuts **-MSV**

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35



Male Stud Barrel Tee
Type FI-LE-...-Rk ▪ Series LL / L / S



C

Whitworth Taper Pipe Thread (BSPT)

Ordering Codes

***FI-LE*-10*L*Rk*-W3*-MS**

- * Male Stud Barrel Tee **FI-LE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **LL** Extra-Light Series
L Light Series
S Heavy Series
- * Thread Type **Rk** Whitworth Taper Pipe Thread (BSPT)
- If required, please indicate special sizes, e.g. R1/8k!
- * Material Code **-W3** Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—** Fitting body only
-MS Fitting body supplied with cutting rings and union nuts
-MSV Fitting body supplied with soft-sealing cutting rings and union nuts

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|--------|-----|-----|------|------|------|-----------------|-----|------|-------|--|-----------------------------|
| | | | D1 | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | S1 | | |
| LL | 4 | 100 | R 1/8 keg. | 3 | 4 | 8 | 15 | 21 | 11 | 17 | 9 | 10 | 1,50 | FI-LE-04LLRk-W3 | |
| | .16 | 1450 | | .12 | .16 | .31 | .59 | .83 | .43 | .67 | .35 | .39 | 3,30 | | |
| | 6 | 100 | R 1/8 keg. | 4,5 | 5 | 8 | 16 | 21 | 9,5 | 17 | 9 | 12 | 1,60 | FI-LE-06LLRk-W3 | |
| | .24 | 1450 | | .18 | .20 | .31 | .63 | .83 | .37 | .67 | .35 | .47 | 3,52 | | |
| L | 8 | 100 | R 1/8 keg. | 6 | 6 | 8 | 17 | 23 | 11,5 | 20 | 12 | 14 | 2,42 | FI-LE-08LLRk-W3 | |
| | .31 | 1450 | | .24 | .24 | .31 | .67 | .91 | .45 | .79 | .47 | .55 | 5,31 | | |
| | 6 | 315 | R 1/8 keg. | 4 | 4 | 8 | 19 | 27 | 12 | 20 | 12 | 14 | 3,43 | FI-LE-06LRk-W3 | |
| | .24 | 4568 | | .16 | .16 | .31 | .75 | 1,06 | .47 | .79 | .47 | .55 | 94,60 | | |
| Rk | 8 | 315 | R 1/4 keg. | 6 | 6 | 12 | 21 | 29 | 14 | 26 | 12 | 17 | 3,79 | FI-LE-08LRk-W3 | |
| | .31 | 4568 | | .24 | .24 | .47 | .83 | 1,14 | .55 | 1,02 | .47 | .67 | 8,34 | | |
| | 10 | 315 | R 1/4 keg. | 8 | 7 | 12 | 22 | 30 | 15 | 27 | 14 | 19 | 5,20 | FI-LE-10LRk-W3 | |
| | .39 | 4568 | | .31 | .28 | .47 | .87 | 1,18 | .59 | 1,06 | .55 | .75 | 11,44 | | |
| S | 12 | 315 | R 3/8 keg. | 10 | 9 | 12 | 24 | 32 | 17 | 28 | 17 | 22 | 6,34 | FI-LE-12LRk-W3 | |
| | .47 | 4568 | | .39 | .35 | .47 | .94 | 1,26 | .67 | 1,10 | .67 | .87 | 13,95 | | |
| | 15 | 315 | R 1/2 keg. | 12 | 11 | 14 | 28 | 36 | 21 | 34 | 19 | 27 | 11,50 | FI-LE-15LRk-W3 | |
| | .59 | 4568 | | .47 | .43 | .55 | 1,10 | 1,42 | .83 | 1,34 | .75 | 1,06 | 25,30 | | |
| MS | 18 | 315 | R 1/2 keg. | 15 | 14 | 14 | 31 | 40 | 23,5 | 36 | 24 | 32 | 14,48 | FI-LE-18LRk-W3 | |
| | .71 | 4568 | | .59 | .55 | .55 | 1,22 | 1,57 | .93 | 1,42 | .94 | 1,26 | 31,86 | | |
| | 6 | 400 | R 1/4 keg. | 4 | 4 | 12 | 23 | 31 | 16 | 26 | 12 | 17 | 5,03 | FI-LE-06SRk-W3 | |
| | .24 | 5800 | | .16 | .16 | .47 | .91 | 1,22 | .63 | 1,02 | .47 | .67 | 11,07 | | |
| MSV | 8 | 400 | R 1/4 keg. | 5 | 5 | 12 | 24 | 32 | 17 | 27 | 14 | 19 | 6,41 | FI-LE-08SRk-W3 | |
| | .31 | 5800 | | .20 | .20 | .47 | .94 | 1,26 | .67 | 1,06 | .55 | .75 | 14,10 | | |
| | 10 | 400 | R 3/8 keg. | 7 | 7 | 12 | 25 | 34 | 17,5 | 28 | 17 | 22 | 8,33 | FI-LE-10SRk-W3 | |
| | .39 | 5800 | | .28 | .28 | .47 | .98 | 1,34 | .69 | 1,10 | .67 | .87 | 18,33 | | |
| MSV | 12 | 400 | R 3/8 keg. | 8 | 8 | 12 | 29 | 38 | 21,5 | 28 | 17 | 24 | 10,46 | FI-LE-12SRk-W3 | |
| | .47 | 5800 | | .31 | .31 | .47 | 1,14 | 1,50 | .85 | 1,10 | .67 | .94 | 23,00 | | |
| | 14 | 400 | R 1/2 keg. | 10 | 10 | 14 | 30 | 40 | 22 | 32 | 19 | 27 | 13,91 | FI-LE-14SRk-W3 | |
| | .55 | 5800 | | .39 | .39 | .55 | 1,18 | 1,57 | .87 | 1,26 | .75 | 1,06 | 30,60 | | |
| MSV | 16 | 400 | R 1/2 keg. | 12 | 12 | 14 | 33 | 43 | 24,5 | 32 | 24 | 30 | 17,66 | FI-LE-16SRk-W3 | |
| | .63 | 5800 | | .47 | .47 | .55 | 1,30 | 1,69 | .96 | 1,26 | .94 | 1,18 | 38,85 | | |

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

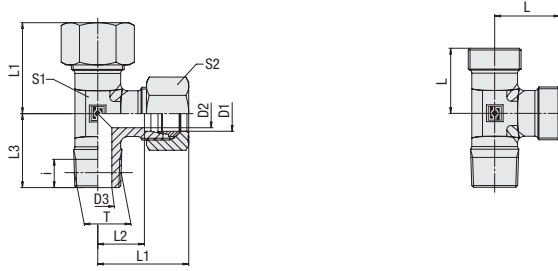
¹ Approximate dimension in assembled condition.
² Weight excluding cutting rings and union nuts.
³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-2 (Form C)
Port acc. to DIN 3852-2 (Form Z)

Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
Please contact STAUFF prior to the assembly for further information.





Male Stud Barrel Tee
Type FI-LE-...-Mk ■ Series LL / L / S



Metric Taper Thread

| Series | Tube OD | | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | |
|--------|---------|-----------------|-----------------|-----------------------|-----------------|-----|------|------|------|-----------------|------|------|-------|--|-----------------------------|----------------|
| | D1 | D1 | | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | S1 | | | S2 |
| LL | 4 | 100 | 1450 | M 8 x 1 keg. | 3 | 3,5 | 8 | 15 | 21 | 11 | 17 | 9 | 10 | 1,50 | FI-LE-04LLMk-W3 | |
| | .16 | .16 | | .12 | .14 | .31 | .59 | .83 | .43 | .67 | .35 | .39 | 3,30 | | | |
| | 6 | 100 | 1450 | M 10 x 1 keg. | 4,5 | 4,5 | 8 | 15 | 21 | 9,5 | 17 | 9 | 12 | 1,62 | FI-LE-06LLMk-W3 | |
| | .24 | .24 | | .18 | .18 | .31 | .59 | .83 | .37 | .67 | .35 | .47 | 3,56 | | | |
| | 8 | 100 | | M 10 x 1 keg. | 6 | 6 | 8 | 17 | 23 | 11,5 | 20 | 12 | 14 | 2,42 | | |
| | .31 | .31 | 1450 | M 10 x 1 keg. | .24 | .24 | .31 | .67 | .91 | .45 | .79 | .47 | .55 | 5,31 | FI-LE-08LLMk-W3 | |
| L | 6 | 315 | 4568 | M 10 x 1 keg. | 4 | 4 | 8 | 19 | 27 | 12 | 20 | 12 | 14 | 3,43 | FI-LE-06LMk-W3 | |
| | .24 | .24 | | .16 | .16 | .31 | .75 | 1.06 | .47 | .79 | .47 | .55 | 7,54 | | | |
| | 8 | 315 | 4568 | M 12 x 1,5 keg. | 6 | 6 | 12 | 21 | 29 | 14 | 26 | 12 | 17 | 4,24 | FI-LE-08LMk-W3 | |
| | .31 | .31 | | .24 | .24 | .47 | .83 | 1.14 | .55 | 1.02 | .47 | .67 | 9,34 | | | |
| | 10 | 315 | | M 14 x 1,5 keg. | 8 | 7 | 12 | 22 | 30 | 15 | 27 | 14 | 19 | 5,57 | | |
| | | .39 | .39 | 4568 | M 14 x 1,5 keg. | .31 | .28 | .47 | .87 | 1.18 | .59 | 1.06 | .55 | .75 | 12,25 | FI-LE-10LMk-W3 |
| | 12 | 315 | 4568 | M 16 x 1,5 keg. | 10 | 9 | 12 | 24 | 32 | 17 | 28 | 17 | 22 | 7,19 | FI-LE-12LMk-W3 | |
| | .47 | .47 | | .39 | .35 | .47 | .94 | 1.26 | .67 | 1.10 | .67 | .87 | 15,81 | | | |
| | 15 | 315 | 4568 | M 18 x 1,5 keg. | 12 | 11 | 12 | 28 | 36 | 21 | 32 | 19 | 27 | 11,86 | FI-LE-15LMk-W3 | |
| | .59 | .59 | | .47 | .43 | .47 | 1.10 | 1.42 | .83 | 1.26 | .75 | 1.06 | 26,10 | | | |
| | 18 | 315 | | M 22 x 1,5 keg. | 15 | 14 | 14 | 31 | 40 | 23,5 | 36 | 24 | 32 | 17,50 | | |
| | | .71 | .71 | 4568 | M 22 x 1,5 keg. | .59 | .55 | .55 | 1.22 | 1.57 | .93 | 1.42 | .94 | 1.26 | 38,49 | FI-LE-18LMk-W3 |
| | S | 6 | 400 | 5800 | M 12 x 1,5 keg. | 4 | 4 | 12 | 23 | 31 | 16 | 26 | 12 | 17 | 5,57 | FI-LE-06SMk-W3 |
| .24 | | .24 | .16 | | .16 | .47 | .91 | 1.22 | .63 | 1.02 | .47 | .67 | 12,26 | | | |
| 8 | | 400 | 5800 | M 14 x 1,5 keg. | 5 | 5 | 12 | 24 | 32 | 17 | 27 | 14 | 19 | 7,54 | FI-LE-08SMk-W3 | |
| .31 | | .31 | | .20 | .20 | .47 | .94 | 1.26 | .67 | 1.06 | .55 | .75 | 16,58 | | | |
| 10 | | 400 | | M 16 x 1,5 keg. | 7 | 7 | 12 | 25 | 34 | 17,5 | 28 | 17 | 22 | 8,37 | | |
| | | .39 | .39 | 5800 | M 16 x 1,5 keg. | .28 | .28 | .47 | .98 | 1.34 | .69 | 1.10 | .67 | .87 | 18,42 | FI-LE-10SMk-W3 |
| 12 | | 400 | 5800 | M 18 x 1,5 keg. | 8 | 8 | 12 | 29 | 38 | 21,5 | 28 | 17 | 24 | 12,07 | FI-LE-12SMk-W3 | |
| .47 | | .47 | | .31 | .31 | .47 | 1.14 | 1.50 | .85 | 1.10 | .67 | .94 | 26,55 | | | |
| 14 | | 400 | 5800 | M 20 x 1,5 keg. | 10 | 10 | 14 | 30 | 40 | 22 | 32 | 19 | 27 | 15,11 | FI-LE-14SMk-W3 | |
| .55 | | .55 | | .39 | .39 | .55 | 1.18 | 1.57 | .87 | 1.26 | .75 | 1.06 | 33,25 | | | |
| 16 | 400 | M 22 x 1,5 keg. | | 12 | 12 | 14 | 33 | 43 | 24,5 | 32 | 24 | 30 | 20,16 | | | |
| | .63 | .63 | 5800 | M 22 x 1,5 keg. | .47 | .47 | .55 | 1.30 | 1.69 | .96 | 1.26 | .94 | 1.18 | 44,35 | FI-LE-16SMk-W3 | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting rings and union nuts.

³ Standard scope of delivery: Fitting body only.

Male stud acc. to DIN 3852-1 (Form C)

Port acc. to DIN 3852-1 (Form Z)

Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes

***FI-LE*-10*L*Mk*-W3*-MS**

- * Male Stud Barrel Tee **FI-LE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series
 - Extra-Light Series **LL**
 - Light Series **L**
 - Heavy Series **S**
- * Thread Type Metric Taper Thread **Mk**

If required, please indicate special sizes, e.g. M12x1.5 !

- * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

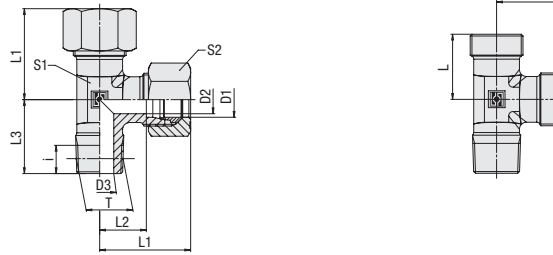
- * Assembling / Kitting
 - Fitting body only **—**
 - Fitting body supplied with cutting rings and union nuts **-MS**
 - Fitting body supplied with soft-sealing cutting rings and union nuts **-MSV**

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35



Male Stud Barrel Tee
Type FI-LE-...-N • Series LL / L



C

Ordering Codes

***FI-LE*-10*L*1/4N*-W3*-MS**

- * Male Stud Barrel Tee **FI-LE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **LL**
 Extra-Light Series (page 78)
 Light Series (page 78)
 Heavy Series (page 79) **L**
S
- * Thread Size **1/4**
 acc. to dimension table
 Please always indicate thread sizes, e.g. 1/4!
- * Thread Type **N**
 NPT Thread
- * Material Code **-W3**
 Steel, zinc/nickel-plated
 Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
 Fitting body only
 Fitting body supplied with cutting rings and union nuts **-MS**
 Fitting body supplied with soft-sealing cutting rings and union nuts **-MSV**

NPT-Thread

| Series | Tube OD (mm/in) | PN (°B/PS) | Dimensions (mm/in) | | | | | | | | | | | Weight (kg/lbs) Ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|---------------|-----------------------|------|------|------|------|------|-----------------|------|------|------|--------|--|-----------------------------|
| | | | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | S1 | S2 | | |
| LL | 4 | 100 | 1/8 NPT | 3 | 3 | 7 | 15 | 21 | 11 | 15 | 9 | 10 | 1,51 | FI-LE-04LL1/8N-W3 | |
| | .16 | 1450 | | .12 | .12 | .28 | .59 | .83 | .43 | .59 | .35 | .39 | 3.32 | | |
| | 6 | 100 | 1/8 NPT | 4,5 | 4,5 | 7 | 15 | 21 | 9,5 | 15 | 10 | 12 | 1,62 | FI-LE-06LL1/8N-W3 | |
| | .24 | 1450 | | .18 | .18 | .28 | .59 | .83 | .37 | .59 | .39 | .47 | 3.56 | | |
| | 8 | 100 | 1/8 NPT | 5 | 5 | 7 | 17 | 23 | 11,5 | 20 | 12 | 14 | 3,30 | FI-LE-08LL1/8N-W3 | |
| | .31 | 1450 | | .20 | .20 | .28 | .67 | .91 | .45 | .79 | .47 | .55 | 7.26 | | |
| L | 6 | 315 | 1/8 NPT | 4 | 4 | 7 | 19 | 27 | 12 | 20 | 12 | 14 | 1,30 | FI-LE-06L1/8N-W3 | |
| | .24 | 4568 | | .16 | .16 | .28 | .75 | 1.06 | .47 | .79 | .47 | .55 | 2.86 | | |
| | 8 | 315 | 1/4 NPT | 6 | 6 | 10 | 21 | 29 | 14 | 26 | 12 | 17 | 4,24 | FI-LE-08L1/4N-W3 | |
| | .31 | 4568 | | .24 | .24 | .39 | .83 | 1.14 | .55 | 1.02 | .47 | .67 | 9.33 | | |
| | 10 | 315 | 1/4 NPT | 7 | 7 | 10 | 22 | 30 | 15 | 27 | 14 | 19 | 5,57 | FI-LE-10L1/4N-W3 | |
| | .39 | 4568 | | .28 | .28 | .39 | .87 | 1.18 | .59 | 1.06 | .55 | .75 | 12.25 | | |
| | 12 | 315 | 3/8 NPT | 10 | 10 | 10,5 | 24 | 32 | 17 | 28 | 17 | 22 | 7,19 | FI-LE-12L3/8N-W3 | |
| | .47 | 4568 | | .39 | .39 | .41 | .94 | 1.26 | .67 | 1.10 | .67 | .87 | 15.81 | | |
| | 15 | 315 | 1/2 NPT | 12 | 12 | 14 | 28 | 36 | 21 | 34 | 19 | 27 | 11,86 | FI-LE-15L1/2N-W3 | |
| | .59 | 4568 | | .47 | .47 | .55 | 1.10 | 1.42 | .83 | 1.34 | .75 | 1.06 | 26.10 | | |
| | 18 | 315 | 1/2 NPT | 14 | 14 | 14 | 31 | 40 | 23,5 | 36 | 24 | 32 | 17,50 | FI-LE-18L1/2N-W3 | |
| | .71 | 4568 | | .55 | .55 | .55 | 1.22 | 1.57 | .93 | 1.42 | .94 | 1.26 | 38.49 | | |
| | 22 | 160 | 3/4 NPT | 18 | 18 | 14 | 35 | 44 | 27,5 | 42 | 27 | 36 | 27,60 | FI-LE-22L3/4N-W3 | |
| | .87 | 2320 | | .71 | .71 | .55 | 1.38 | 1.73 | 1.08 | 1.65 | 1.06 | 1.42 | 60.72 | | |
| | 28 | 160 | 1 NPT | 24 | 24 | 17,5 | 38 | 47 | 30,5 | 48 | 36 | 41 | 43,00 | FI-LE-28L1N-W3 | |
| | 1.10 | 2320 | | .94 | .94 | .69 | 1.50 | 1.85 | 1.20 | 1.89 | 1.42 | 1.61 | 94.60 | | |
| | 35 | 160 | 1 1/4 NPT | 30 | 30 | 18 | 46 | 57 | 35,5 | 54 | 41 | 50 | 63,50 | FI-LE-35L1-1/4N-W3 | |
| | 1.38 | 2320 | | 1.18 | 1.18 | .71 | 1.81 | 2.24 | 1.40 | 2.13 | 1.61 | 1.97 | 139.70 | | |
| | 42 | 160 | 1 1/2 NPT | 36 | 36 | 18 | 51 | 63 | 40 | 61 | 50 | 60 | 110,00 | FI-LE-42L1-1/2N-W3 | |
| | 1.65 | 2320 | | 1.42 | 1.42 | .71 | 2.01 | 2.48 | 1.57 | 2.40 | 1.97 | 2.36 | 242.00 | | |

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

¹ Approximate dimension in assembled condition.
² Weight excluding cutting rings and union nuts.
³ Standard scope of delivery: Fitting body only.

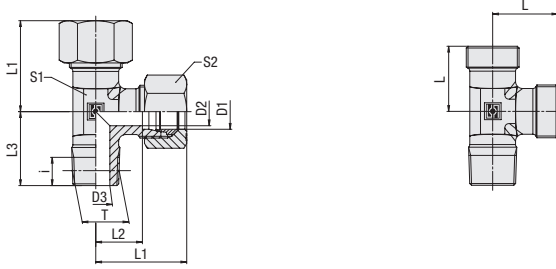
Male stud acc. to ANSI/ASME B1.20.1-1983
 Port acc. to ANSI/ASME B1.20.1-1983

Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
 Please contact STAUFF prior to the assembly for further information.



Male Stud Barrel Tee
Type FI-LE-...-N • Series S



NPT Thread

| Series | Tube OD PN | | Dimensions | | | | | | | | | | Weight (^{kg} /lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|------------|-----------|------------|------|------|------|------|------|-----------------|------|------|------|---|-----------------------------|
| | (mm/in) | (bar/psi) | Thread | T | D2 | D3 | i | L | L1 ¹ | L2 | L3 | S1 | | |
| S | 6 | 630 | 1/4 NPT | 4 | 4 | 10 | 23 | 31 | 16 | 26 | 12 | 17 | 5,57 | FI-LE-06S1/4N-W3 |
| | .24 | 9135 | | 0.16 | 0.16 | 0.39 | 0.91 | 1.22 | 0.63 | 1.02 | 0.47 | 0.67 | 12.26 | |
| | 8 | 630 | 1/4 NPT | 5 | 5 | 10 | 24 | 32 | 17 | 27 | 14 | 19 | 7,54 | FI-LE-08S1/4N-W3 |
| | .31 | 9135 | | 0.20 | 0.20 | 0.39 | 0.94 | 1.26 | 0.67 | 1.06 | 0.55 | 0.75 | 16.58 | |
| | 10 | 630 | 3/8 NPT | 7 | 7 | 10,5 | 25 | 34 | 17,5 | 28 | 17 | 22 | 10,50 | FI-LE-10S3/8N-W3 |
| | .39 | 9135 | | 0.28 | 0.28 | 0.41 | 0.98 | 1.34 | 0.69 | 1.10 | 0.67 | 0.87 | 23.10 | |
| | 12 | 630 | 3/8 NPT | 8 | 8 | 10,5 | 29 | 38 | 21,5 | 28 | 17 | 24 | 12,07 | FI-LE-12S3/8N-W3 |
| | .47 | 9135 | | 0.31 | 0.31 | 0.41 | 1.14 | 1.50 | 0.85 | 1.10 | 0.67 | 0.94 | 26.55 | |
| | 14 | 630 | 1/2 NPT | 10 | 10 | 14 | 30 | 40 | 22 | 34 | 19 | 27 | 15,11 | FI-LE-14S1/2N-W3 |
| | .55 | 9135 | | 0.39 | 0.39 | 0.55 | 1.18 | 1.57 | 0.87 | 1.34 | 0.75 | 1.06 | 33.25 | |
| | 16 | 630 | 1/2 NPT | 12 | 12 | 14 | 33 | 43 | 24,5 | 36 | 24 | 30 | 20,16 | FI-LE-16S1/2N-W3 |
| | .63 | 9135 | | 0.47 | 0.47 | 0.55 | 1.30 | 1.69 | 0.96 | 1.42 | 0.94 | 1.18 | 44.35 | |
| | 20 | 400 | 3/4 NPT | 16 | 16 | 14 | 37 | 48 | 26,5 | 42 | 27 | 36 | 35,00 | FI-LE-20S3/4N-W3 |
| | .79 | 5800 | | 0.63 | 0.63 | 0.55 | 1.46 | 1.89 | 1.04 | 1.65 | 1.06 | 1.42 | 77.00 | |
| | 25 | 400 | 1 NPT | 20 | 20 | 17,5 | 42 | 54 | 30 | 48 | 36 | 46 | 56,00 | FI-LE-25S1N-W3 |
| | .98 | 5800 | | 0.79 | 0.79 | 0.69 | 1.65 | 2.13 | 1.18 | 1.89 | 1.42 | 1.81 | 123.20 | |
| | 30 | 400 | 1 1/4 NPT | 25 | 32 | 18 | 49 | 62 | 35,5 | 54 | 41 | 50 | 74,20 | FI-LE-30S1-1/4N-W3 |
| | 1.18 | 5800 | | 0.98 | 1.26 | 0.71 | 1.93 | 2.44 | 1.40 | 2.13 | 1.61 | 1.97 | 163.24 | |
| | 38 | 400 | 1 1/2 NPT | 32 | 32 | 18 | 57 | 72 | 41 | 61 | 50 | 60 | 145,00 | FI-LE-38S1-1/2N-W3 |
| | 1.50 | 5800 | | 1.26 | 1.26 | 0.71 | 2.24 | 2.83 | 1.61 | 2.40 | 1.97 | 2.36 | 319.00 | |

¹ Approximate dimension in assembled condition.
² Weight excluding cutting rings and union nuts.
³ Standard scope of delivery: Fitting body only.

Male stud acc. to ANSI/ASME B1.20.1-1983
 Port acc. to ANSI/ASME B1.20.1-1983
 Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
 Please contact STAUFF prior to the assembly for further information.

Ordering Codes

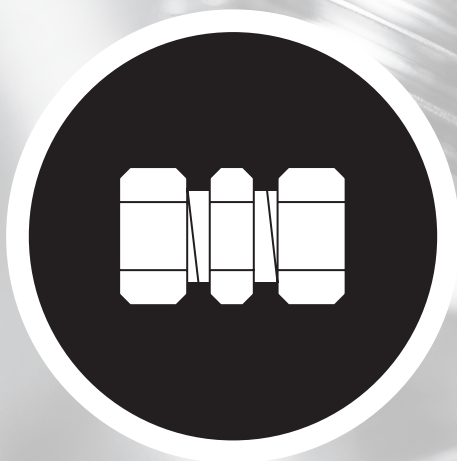
***FI-LE*-10*L*1/4N*-W3*-MS**







- * Male Stud Barrel Tee **FI-LE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series
 Extra-Light Series (page 78) **LL**
 Light Series (page 78) **L**
 Heavy Series (page 79) **S**
- * Thread Size acc. to dimension table **1/4**
- Please always indicate thread sizes, e.g. 1/4!
- * Thread Type NPT Thread **N**
- * Material Code Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body only **—**
- Fitting body supplied with cutting rings and union nuts **-MS**
- Fitting body supplied with soft-sealing cutting rings and union nuts **-MSV**

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35



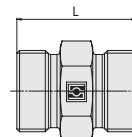
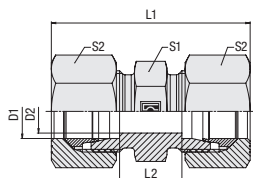


| | | |
|---|---------------------------------|----|
|  | Straight Union FI-G | 82 |
|  | Straight Reducer FI-G | 83 |
|  | Equal Elbow FI-W | 85 |
|  | Equal Tee FI-T | 86 |
|  | Tee Reducer FI-T | 87 |
|  | Equal Cross FI-K | 89 |

D



Straight Union Type FI-G ▪ Series LL / L / S



D

Ordering Codes

FI-G-10*L*-W3*-MS

- * Straight Union **FI-G**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **LL**
 Extra-Light Series **L**
 Light Series **S**
 Heavy Series
- * Material Code **-W3**
 Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
 Fitting body only
- Fitting body supplied with cutting rings and union nuts **-MS**
- Fitting body supplied with soft-sealing cutting rings and union nuts **-MSV**

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

| Series | Tube OD | PN (bar/psi) | Dimensions (mm/in) | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | |
|--------|---------|-----------------|-----------------------|------|-----------------|------|------|--------|--|-----------------------------|-------------|
| | D1 | | D2 | L | L1 ¹ | L2 | S1 | S2 | | | |
| LL | 4 | 100 | 3 | 20 | 31 | 12 | 9 | 10 | 0,53 | FI-G-04LL-W3 | |
| | .16 | 1450 | .12 | .79 | 1.22 | .47 | .35 | .39 | 1.16 | FI-G-06LL-W3 | |
| | 6 | 100 | 4,5 | 20 | 32 | 9 | 11 | 12 | 0,79 | FI-G-06LL-W3 | |
| | .24 | 1450 | .18 | .79 | 1.26 | .35 | .43 | .47 | 1.74 | FI-G-08LL-W3 | |
| | 8 | 100 | 6 | 23 | 35 | 12 | 12 | 14 | 1,05 | FI-G-08LL-W3 | |
| | .31 | 1450 | .24 | .91 | 1.38 | .47 | .47 | .55 | 2.30 | FI-G-10LL-W3 | |
| | 10 | 100 | 8 | 23 | 35 | 12 | 14 | 17 | 1,29 | FI-G-10LL-W3 | |
| | .39 | 1450 | .31 | .91 | 1.38 | .47 | .55 | .67 | 2.83 | FI-G-12LL-W3 | |
| | 12 | 100 | 10 | 23 | 35 | 11 | 17 | 19 | 1,83 | FI-G-12LL-W3 | |
| | .47 | 1450 | .39 | .91 | 1.38 | .43 | .67 | .75 | 4.03 | FI-G-12LL-W3 | |
| | L | 6 | 500 | 4 | 24 | 39 | 10 | 12 | 14 | 1,44 | FI-G-06L-W3 |
| | | .24 | 7250 | .16 | .94 | 1.54 | .39 | .47 | .55 | 3.17 | FI-G-08L-W3 |
| 8 | | 500 | 6 | 25 | 40 | 11 | 14 | 17 | 1,90 | FI-G-08L-W3 | |
| .31 | | 7250 | .24 | .98 | 1.57 | .43 | .55 | .67 | 4.18 | FI-G-10L-W3 | |
| 10 | | 500 | 8 | 27 | 42 | 13 | 17 | 19 | 2,60 | FI-G-10L-W3 | |
| .39 | | 7250 | .31 | 1.06 | 1.65 | .51 | .67 | .75 | 5.72 | FI-G-12L-W3 | |
| 12 | | 400 | 10 | 28 | 43 | 14 | 19 | 22 | 2,67 | FI-G-12L-W3 | |
| .47 | | 5800 | .39 | 1.10 | 1.69 | .55 | .75 | .87 | 5.87 | FI-G-12L-W3 | |
| 15 | | 400 | 12 | 30 | 46 | 16 | 24 | 27 | 4,81 | FI-G-15L-W3 | |
| .59 | | 5800 | .47 | 1.18 | 1.81 | .63 | .94 | 1.06 | 10.57 | FI-G-18L-W3 | |
| 18 | | 400 | 15 | 31 | 48 | 16 | 27 | 32 | 6,65 | FI-G-18L-W3 | |
| .71 | | 5800 | .59 | 1.22 | 1.89 | .63 | 1.06 | 1.26 | 14.63 | FI-G-22L-W3 | |
| 22 | | 250 | 19 | 35 | 52 | 20 | 32 | 36 | 8,94 | FI-G-22L-W3 | |
| .87 | | 3625 | .75 | 1.38 | 2.05 | .79 | 1.26 | 1.42 | 19.66 | FI-G-28L-W3 | |
| 28 | | 250 | 24 | 36 | 54 | 21 | 41 | 41 | 13,90 | FI-G-28L-W3 | |
| 1.10 | | 3625 | .94 | 1.42 | 2.13 | .83 | 1.61 | 1.61 | 30.57 | FI-G-35L-W3 | |
| 35 | | 250 | 30 | 41 | 63 | 20 | 46 | 50 | 21,11 | FI-G-35L-W3 | |
| 1.38 | | 3625 | 1.18 | 1.61 | 2.48 | .79 | 1.81 | 1.97 | 46.43 | FI-G-42L-W3 | |
| 42 | | 250 | 36 | 43 | 66 | 21 | 55 | 60 | 29,26 | FI-G-42L-W3 | |
| 1.65 | | 3625 | 1.42 | 1.69 | 2.60 | .83 | 2.17 | 2.36 | 64.38 | FI-G-42L-W3 | |
| S | 6 | 800 | 4 | 30 | 45 | 16 | 14 | 17 | 2,52 | FI-G-06S-W3 | |
| | .24 | 11600 | .16 | 1.18 | 1.77 | .63 | .55 | .67 | 5.54 | FI-G-08S-W3 | |
| | 8 | 800 | 5 | 32 | 47 | 18 | 17 | 19 | 3,67 | FI-G-08S-W3 | |
| | .31 | 11600 | .20 | 1.26 | 1.85 | .71 | .67 | .75 | 8.08 | FI-G-10S-W3 | |
| | 10 | 800 | 7 | 32 | 49 | 17 | 19 | 22 | 4,23 | FI-G-10S-W3 | |
| | .39 | 11600 | .28 | 1.26 | 1.93 | .67 | .75 | .87 | 9.30 | FI-G-12S-W3 | |
| | 12 | 630 | 8 | 34 | 51 | 19 | 22 | 24 | 5,88 | FI-G-12S-W3 | |
| | .47 | 9135 | .31 | 1.34 | 2.01 | .75 | .87 | .94 | 12.94 | FI-G-14S-W3 | |
| | 14 | 630 | 10 | 38 | 57 | 22 | 24 | 27 | 7,52 | FI-G-14S-W3 | |
| | .55 | 9135 | .39 | 1.50 | 2.24 | .87 | .94 | 1.06 | 16.54 | FI-G-16S-W3 | |
| | 16 | 630 | 12 | 38 | 57 | 21 | 27 | 30 | 9,20 | FI-G-16S-W3 | |
| | .63 | 9135 | .47 | 1.50 | 2.24 | .83 | 1.06 | 1.18 | 20.25 | FI-G-20S-W3 | |
| | 20 | 400 | 16 | 44 | 66 | 23 | 32 | 36 | 14,27 | FI-G-20S-W3 | |
| | .79 | 5800 | .63 | 1.73 | 2.60 | .91 | 1.26 | 1.42 | 31.40 | FI-G-25S-W3 | |
| | 25 | 400 | 20 | 50 | 74 | 26 | 41 | 46 | 24,99 | FI-G-25S-W3 | |
| | .98 | 5800 | .79 | 1.97 | 2.91 | 1.02 | 1.61 | 1.81 | 54.97 | FI-G-30S-W3 | |
| | 30 | 400 | 25 | 54 | 80 | 27 | 46 | 50 | 33,08 | FI-G-30S-W3 | |
| | 1.18 | 5800 | .98 | 2.13 | 3.15 | 1.06 | 1.81 | 1.97 | 72.77 | FI-G-30S-W3 | |
| 38 | 400 | 32 | 61 | 90 | 29 | 55 | 60 | 53,80 | FI-G-38S-W3 | | |
| 1.50 | 5800 | 1.26 | 2.40 | 3.54 | 1.14 | 2.17 | 2.36 | 118.36 | FI-G-38S-W3 | | |

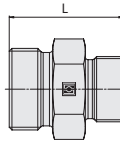
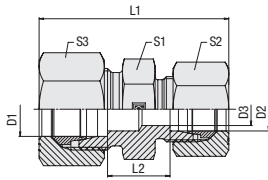
¹ Approximate dimension in assembled condition.

² Weight excluding cutting rings and union nuts.

³ Standard scope of delivery: Fitting body only.



Straight Reducer Type FI-G ▪ Series LL / L



| Series | Tube OD (mm/in) | | PN (bar/psi) | Dimensions (mm/in) | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|------|-----------------|-----------------------|------|-----------------|------|------|------|-------|--|-----------------------------|
| | D1 | D2 | | D3 | L | L1 ¹ | L2 | S1 | S2 | S3 | | |
| LL | 6 | 4 | 100 | 3 | 20 | 32 | 10,5 | 11 | 10 | 12 | 0,70 | FI-G-06/04LL-W3 |
| | .24 | .16 | 1450 | .12 | .79 | 1.26 | .41 | .43 | .39 | .47 | 1.54 | |
| | 8 | 4 | 100 | 3 | 22 | 34 | 12,5 | 12 | 10 | 14 | 1,00 | FI-G-08/04LL-W3 |
| | .31 | .16 | 1450 | .12 | .87 | 1.34 | .49 | .47 | .39 | .55 | 2.20 | |
| | 8 | 6 | 100 | 4 | 22 | 34 | 11 | 12 | 12 | 14 | 0,99 | FI-G-08/06LL-W3 |
| | .31 | .24 | 1450 | .16 | .87 | 1.34 | .43 | .47 | .47 | .55 | 2.18 | |
| L | 8 | 6 | 500 | 4 | 25 | 40 | 11 | 14 | 14 | 17 | 1,61 | FI-G-08/06L-W3 |
| | .31 | .24 | 7250 | .16 | .98 | 1.57 | .43 | .55 | .55 | .67 | 3.54 | |
| | 10 | 6 | 500 | 4 | 26 | 41 | 12 | 17 | 14 | 19 | 1,99 | FI-G-10/06L-W3 |
| | .39 | .24 | 7250 | .16 | 1.02 | 1.61 | .47 | .67 | .55 | .75 | 4.37 | |
| | 10 | 8 | 500 | 6 | 26 | 41 | 12 | 17 | 17 | 19 | 2,21 | FI-G-10/08L-W3 |
| | .39 | .31 | 7250 | .24 | 1.02 | 1.61 | .47 | .67 | .67 | .75 | 4.86 | |
| | 12 | 6 | 400 | 4 | 27 | 42 | 13 | 19 | 14 | 22 | 2,47 | FI-G-12/06L-W3 |
| | .47 | .24 | 5800 | .16 | 1.06 | 1.65 | .51 | .75 | .55 | .87 | 5.43 | |
| | 12 | 8 | 400 | 6 | 27 | 42 | 13 | 19 | 17 | 22 | 2,63 | FI-G-12/08L-W3 |
| | .47 | .31 | 5800 | .24 | 1.06 | 1.65 | .51 | .75 | .67 | .87 | 5.78 | |
| | 12 | 10 | 400 | 8 | 28 | 43 | 14 | 19 | 19 | 22 | 2,81 | FI-G-12/10L-W3 |
| | .47 | .39 | 5800 | .31 | 1.10 | 1.69 | .55 | .75 | .75 | .87 | 6.19 | |
| | 15 | 10 | 400 | 8 | 29 | 45 | 15 | 24 | 19 | 27 | 4,36 | FI-G-15/10L-W3 |
| | .59 | .39 | 5800 | .31 | 1.14 | 1.77 | .59 | .94 | .75 | 1.06 | 9.59 | |
| | 15 | 12 | 400 | 10 | 29 | 45 | 15 | 24 | 22 | 27 | 4,42 | FI-G-15/12L-W3 |
| | .59 | .47 | 5800 | .39 | 1.14 | 1.77 | .59 | .94 | .87 | 1.06 | 9.73 | |
| | 18 | 10 | 400 | 8 | 30 | 46 | 15,5 | 27 | 19 | 32 | 6,01 | FI-G-18/10L-W3 |
| | .71 | .39 | 5800 | .31 | 1.18 | 1.81 | .61 | 1.06 | .75 | 1.26 | 13.22 | |
| | 18 | 12 | 400 | 10 | 30 | 46 | 15,5 | 27 | 22 | 32 | 5,56 | FI-G-18/12L-W3 |
| | .71 | .47 | 5800 | .39 | 1.18 | 1.81 | .61 | 1.06 | .87 | 1.26 | 12.22 | |
| | 18 | 15 | 400 | 12 | 31 | 48 | 16,5 | 27 | 27 | 32 | 6,73 | FI-G-18/15L-W3 |
| | .71 | .59 | 5800 | .47 | 1.22 | 1.89 | .65 | 1.06 | 1.06 | 1.26 | 14.81 | |
| | 22 | 12 | 250 | 10 | 32 | 48 | 17,5 | 32 | 22 | 36 | 7,99 | FI-G-22/12L-W3 |
| | .87 | .47 | 3625 | .39 | 1.26 | 1.89 | .69 | 1.26 | .87 | 1.42 | 17.57 | |
| | 22 | 15 | 250 | 12 | 33 | 50 | 18,5 | 32 | 27 | 36 | 8,37 | FI-G-22/15L-W3 |
| | .87 | .59 | 3625 | .47 | 1.30 | 1.97 | .73 | 1.26 | 1.06 | 1.42 | 18.41 | |
| | 22 | 18 | 250 | 15 | 33 | 50 | 18 | 32 | 32 | 36 | 8,76 | FI-G-22/18L-W3 |
| | .87 | .71 | 3625 | .59 | 1.30 | 1.97 | .71 | 1.26 | 1.26 | 1.42 | 19.26 | |
| | 28 | 18 | 250 | 15 | 34 | 52 | 19 | 41 | 32 | 41 | 13,29 | FI-G-28/18L-W3 |
| | 1.10 | .71 | 3625 | .59 | 1.34 | 2.05 | .75 | 1.61 | 1.26 | 1.61 | 29.24 | |
| 28 | 22 | 250 | 19 | 36 | 54 | 21 | 41 | 36 | 41 | 13,61 | FI-G-28/22L-W3 | |
| 1.10 | .87 | 3625 | .75 | 1.42 | 2.13 | .83 | 1.61 | 1.42 | 1.61 | 29.94 | | |
| 35 | 22 | 250 | 19 | 39 | 59 | 21 | 46 | 36 | 50 | 19,99 | FI-G-35/22L-W3 | |
| 1.38 | .87 | 3625 | .75 | 1.54 | 2.32 | .83 | 1.81 | 1.42 | 1.97 | 43.99 | | |
| 35 | 28 | 250 | 24 | 39 | 59 | 21 | 46 | 41 | 50 | 19,71 | FI-G-35/28L-W3 | |
| 1.38 | 1.10 | 3625 | .94 | 1.54 | 2.32 | .83 | 1.81 | 1.61 | 1.97 | 43.35 | | |
| 42 | 35 | 250 | 30 | 42,5 | 66 | 21 | 55 | 50 | 60 | 29,78 | FI-G-42/35L-W3 | |
| 1.65 | 1.38 | 3625 | 1.18 | 1.67 | 2.60 | .83 | 2.17 | 1.97 | 2.36 | 65.52 | | |

Ordering Codes

***FI-G*-10/*08*L*-W3*-MS**

- * Straight Reducer FI-G
- * Outside Tube Diameter D1 (in mm) -10
- * Outside Tube Diameter D2 (in mm) 08
- * Series LL
 Extra-Light Series (page 83) LL
 Light Series (page 83) L
 Heavy Series (page 84) S
- * Material Code -W3
 Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting —
 Fitting body only
- MS
 Fitting body supplied with cutting rings and union nuts
- MSV
 Fitting body supplied with soft-sealing cutting rings and union nuts

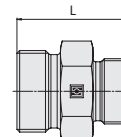
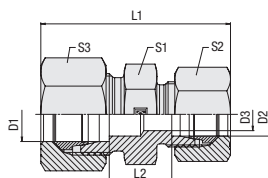
Connecting Parts

-  Cutting Ring
Type **FI-DS** Page 26
-  Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
-  Support Sleeve
Type **FI-VH** Page 28
-  STAUFF Form Ring
Type **FI-AR** Page 30
-  Union Nut
Type **FI-M** Page 31
-  37° Flared Tube Fitting Set
Type **FI-AB** Page 35

¹ Approximate dimension in assembled condition.
² Weight excluding cutting rings and union nuts.
³ Standard scope of delivery: Fitting body only.



Straight Reducer Type FI-G ▪ Series S



D

Ordering Codes

FI-G-10/*08*L*-W3*-MS

- * Straight Reducer **FI-G**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Outside Tube Diameter D2 (in mm) **08**
- * Series **LL**
 Extra-Light Series (page 83)
L
 Light Series (page 83)
S
 Heavy Series (page 84)
- * Material Code **-W3**
 Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
 Fitting body only
- Fitting body supplied with cutting rings and union nuts **-MS**
- Fitting body supplied with soft-sealing cutting rings and union nuts **-MSV**

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

| Series | Tube OD (mm/in) | | PN (bar/psi) | Dimensions (mm/in) | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | |
|--------|--------------------|------|-----------------|-----------------------|------|-----------------|------|------|------|--|-----------------------------|----------------|
| | D1 | D2 | | D3 | L | L1 ¹ | L2 | S1 | S2 | | | S3 |
| S | 8 | 6 | 800 | 4 | 32 | 47 | 18 | 17 | 17 | 19 | 3,46 | FI-G-08/06S-W3 |
| | .31 | .24 | 11600 | .16 | 1.26 | 1.85 | .71 | .67 | .67 | .75 | 7.60 | |
| | 10 | 6 | 800 | 4 | 32 | 48 | 17,5 | 19 | 17 | 22 | 4,40 | FI-G-10/06S-W3 |
| | .39 | .24 | 11600 | .16 | 1.26 | 1.89 | .69 | .75 | .67 | .87 | 9.68 | |
| | 10 | 8 | 800 | 5 | 32 | 48 | 17,5 | 19 | 19 | 22 | 4,26 | FI-G-10/08S-W3 |
| | .39 | .31 | 11600 | .20 | 1.26 | 1.89 | .69 | .75 | .75 | .87 | 9.37 | |
| | 12 | 6 | 630 | 4 | 34 | 50 | 19,5 | 22 | 17 | 24 | 5,56 | FI-G-12/06S-W3 |
| | .47 | .24 | 9135 | .16 | 1.34 | 1.97 | .77 | .87 | .67 | .94 | 12.24 | |
| | 12 | 8 | 630 | 5 | 34 | 50 | 19,5 | 22 | 19 | 24 | 4,03 | FI-G-12/08S-W3 |
| | .47 | .31 | 9135 | .20 | 1.34 | 1.97 | .77 | .87 | .75 | .94 | 8.87 | |
| | 12 | 10 | 630 | 7 | 34 | 51 | 19 | 22 | 22 | 24 | 5,86 | FI-G-12/10S-W3 |
| | .47 | .39 | 9135 | .28 | 1.34 | 2.01 | .75 | .87 | .87 | .94 | 12.90 | |
| | 14 | 10 | 630 | 7 | 36 | 54 | 20,5 | 24 | 22 | 27 | 7,16 | FI-G-14/10S-W3 |
| | .55 | .39 | 9135 | .28 | 1.42 | 2.13 | .81 | .94 | .87 | 1.06 | 15.76 | |
| | 14 | 12 | 630 | 8 | 36 | 54 | 20,5 | 24 | 24 | 27 | 7,34 | FI-G-14/12S-W3 |
| | .55 | .47 | 9135 | .31 | 1.42 | 2.13 | .81 | .94 | .94 | 1.06 | 16.15 | |
| | 16 | 10 | 630 | 7 | 36 | 54 | 20 | 27 | 22 | 30 | 7,95 | FI-G-16/10S-W3 |
| | .63 | .39 | 9135 | .28 | 1.42 | 2.13 | .79 | 1.06 | .87 | 1.18 | 17.49 | |
| | 16 | 12 | 630 | 8 | 36 | 54 | 20 | 27 | 24 | 30 | 9,32 | FI-G-16/12S-W3 |
| | .63 | .47 | 9135 | .31 | 1.42 | 2.13 | .79 | 1.06 | .94 | 1.18 | 20.50 | |
| | 16 | 14 | 630 | 10 | 38 | 57 | 21,5 | 27 | 27 | 30 | 8,95 | FI-G-16/14S-W3 |
| | .63 | .55 | 9135 | .39 | 1.50 | 2.24 | .85 | 1.06 | 1.06 | 1.18 | 19.69 | |
| | 20 | 10 | 400 | 7 | 40 | 60 | 22 | 32 | 22 | 36 | 12,93 | FI-G-20/10S-W3 |
| | .79 | .39 | 5800 | .28 | 1.57 | 2.36 | .87 | 1.26 | .87 | 1.42 | 28.44 | |
| | 20 | 12 | 400 | 8 | 40 | 60 | 22 | 32 | 24 | 36 | 13,19 | FI-G-20/12S-W3 |
| | .79 | .47 | 5800 | .31 | 1.57 | 2.36 | .87 | 1.26 | .94 | 1.42 | 29.02 | |
| | 20 | 16 | 400 | 12 | 42 | 63 | 23 | 32 | 30 | 36 | 13,38 | FI-G-20/16S-W3 |
| | .79 | .63 | 5800 | .47 | 1.65 | 2.48 | .91 | 1.26 | 1.18 | 1.42 | 29.44 | |
| 25 | 16 | 400 | 12 | 46 | 68 | 25,5 | 41 | 30 | 46 | 22,87 | FI-G-25/16S-W3 | |
| .98 | .63 | 5800 | .47 | 1.81 | 2.68 | 1.00 | 1.61 | 1.18 | 1.81 | 50.31 | | |
| 25 | 20 | 400 | 16 | 48 | 71 | 25,5 | 41 | 36 | 46 | 23,66 | FI-G-25/20S-W3 | |
| .98 | .79 | 5800 | .63 | 1.89 | 2.80 | 1.00 | 1.61 | 1.42 | 1.81 | 52.05 | | |
| 30 | 20 | 400 | 16 | 50 | 74 | 26 | 46 | 36 | 50 | 30,33 | FI-G-30/20S-W3 | |
| 1.18 | .79 | 5800 | .63 | 1.97 | 2.91 | 1.02 | 1.81 | 1.42 | 1.97 | 66.73 | | |
| 30 | 25 | 400 | 20 | 52 | 77 | 26,5 | 46 | 46 | 50 | 31,79 | FI-G-30/25S-W3 | |
| 1.18 | .98 | 5800 | .79 | 2.05 | 3.03 | 1.04 | 1.81 | 1.81 | 1.97 | 69.95 | | |
| 38 | 30 | 400 | 25 | 59 | 87 | 29,5 | 55 | 50 | 60 | 50,90 | FI-G-38/30S-W3 | |
| 1.50 | 1.18 | 5800 | .98 | 2.32 | 3.43 | 1.16 | 2.17 | 1.97 | 2.36 | 111.98 | | |

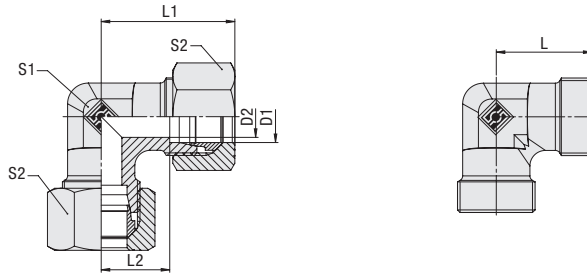
¹ Approximate dimension in assembled condition.

² Weight excluding cutting rings and union nuts.

³ Standard scope of delivery: Fitting body only.



Equal Elbow
Type FI-W ▪ Series LL / L / S



| Series | Tube OD | | PN (bar/PSI) | Dimensions (mm/in) | | | | | | Weight (%/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|---------|-------|-----------------|-----------------------|-----------------|------|------|--------|-------------|---|-----------------------------|
| | D1 | D2 | | L | L1 ¹ | L2 | S1 | S2 | | | |
| LL | 4 | 100 | 3 | 15 | 21 | 11 | 9 | 10 | 1,29 | FI-W-04LL-W3-PR | |
| | .16 | 1450 | .12 | .59 | .83 | .43 | .35 | .39 | 2.83 | | |
| | 6 | 100 | 4,5 | 15 | 21 | 9,5 | 11 | 12 | 1,57 | FI-W-06LL-W3-PR | |
| | .24 | 1450 | .18 | .59 | .83 | .37 | .43 | .47 | 3.45 | | |
| | 8 | 100 | 6 | 17 | 23 | 11,5 | 12 | 14 | 2,22 | FI-W-08LL-W3-PR | |
| .31 | 1450 | .24 | .67 | .91 | .45 | .47 | .55 | 4.88 | | | |
| L | 6 | 500 | 4 | 19 | 27 | 12 | 12 | 14 | 1,94 | FI-W-06L-W3 | |
| | .24 | 7250 | .16 | .75 | 1.06 | .47 | .47 | .55 | 4.27 | | |
| | 8 | 500 | 6 | 21 | 29 | 14 | 12 | 17 | 2,35 | FI-W-08L-W3 | |
| | .31 | 7250 | .24 | .83 | 1.14 | .55 | .47 | .67 | 5.17 | | |
| | 10 | 500 | 8 | 22 | 30 | 15 | 14 | 19 | 3,06 | FI-W-10L-W3 | |
| | .39 | 7250 | .31 | .87 | 1.18 | .59 | .55 | .75 | 6.72 | | |
| | 12 | 400 | 10 | 24 | 32 | 17 | 17 | 22 | 4,34 | FI-W-12L-W3 | |
| | .47 | 5800 | .39 | .94 | 1.26 | .67 | .67 | .87 | 9.55 | | |
| | 15 | 400 | 12 | 28 | 36 | 21 | 19 | 27 | 5,13 | FI-W-15L-W3 | |
| | .59 | 5800 | .47 | 1.10 | 1.42 | .83 | .75 | 1.06 | 11.29 | | |
| | 18 | 400 | 15 | 31 | 40 | 23,5 | 24 | 32 | 11,63 | FI-W-18L-W3 | |
| | .71 | 5800 | .59 | 1.22 | 1.57 | .93 | .94 | 1.26 | 25.59 | | |
| | 22 | 250 | 19 | 35 | 44 | 27,5 | 27 | 36 | 15,35 | FI-W-22L-W3 | |
| | .87 | 3625 | .75 | 1.38 | 1.73 | 1.08 | 1.06 | 1.42 | 33.77 | | |
| | 28 | 250 | 24 | 38 | 47 | 30,5 | 36 | 41 | 25,45 | FI-W-28L-W3 | |
| | 1.10 | 3625 | .94 | 1.50 | 1.85 | 1.20 | 1.42 | 1.61 | 56.00 | | |
| | 35 | 250 | 30 | 45 | 56 | 34,5 | 41 | 50 | 42,04 | FI-W-35L-W3 | |
| | 1.38 | 3625 | 1.18 | 1.77 | 2.20 | 1.36 | 1.61 | 1.97 | 92.48 | | |
| | 42 | 250 | 36 | 51 | 63 | 40 | 50 | 60 | 63,20 | FI-W-42L-W3 | |
| | 1.65 | 3625 | 1.42 | 2.01 | 2.48 | 1.57 | 1.97 | 2.36 | 139.04 | | |
| S | 6 | 800 | 4 | 23 | 31 | 16 | 12 | 17 | 3,32 | FI-W-06S-W3 | |
| | .24 | 11600 | .16 | .91 | 1.22 | .63 | .47 | .67 | 7.30 | | |
| | 8 | 800 | 5 | 24 | 32 | 17 | 14 | 19 | 4,68 | FI-W-08S-W3 | |
| | .31 | 11600 | .20 | .94 | 1.26 | .67 | .55 | .75 | 10.30 | | |
| | 10 | 800 | 7 | 25 | 34 | 17,5 | 17 | 22 | 6,02 | FI-W-10S-W3 | |
| | .39 | 11600 | .28 | .98 | 1.34 | .69 | .67 | .87 | 13.24 | | |
| | 12 | 630 | 8 | 29 | 38 | 21,5 | 17 | 24 | 8,14 | FI-W-12S-W3 | |
| | .47 | 9135 | .31 | 1.14 | 1.50 | .85 | .67 | .94 | 17.91 | | |
| | 14 | 630 | 10 | 30 | 40 | 22 | 19 | 27 | 9,86 | FI-W-14S-W3 | |
| | .55 | 9135 | .39 | 1.18 | 1.57 | .87 | .75 | 1.06 | 21.69 | | |
| | 16 | 630 | 12 | 33 | 43 | 24,5 | 24 | 30 | 14,13 | FI-W-16S-W3 | |
| | .63 | 9135 | .47 | 1.30 | 1.69 | .96 | .94 | 1.18 | 31.09 | | |
| | 20 | 400 | 16 | 37 | 48 | 26,5 | 27 | 36 | 20,50 | FI-W-20S-W3 | |
| | .79 | 5800 | .63 | 1.46 | 1.89 | 1.04 | 1.06 | 1.42 | 45.10 | | |
| | 25 | 400 | 20 | 42 | 54 | 30 | 36 | 46 | 36,09 | FI-W-25S-W3 | |
| .98 | 5800 | .79 | 1.65 | 2.13 | 1.18 | 1.42 | 1.81 | 79.40 | | | |
| 30 | 400 | 25 | 49 | 62 | 35,5 | 41 | 50 | 40,20 | FI-W-30S-W3 | | |
| 1.18 | 5800 | .98 | 1.93 | 2.44 | 1.40 | 1.61 | 1.97 | 102.11 | | | |
| 38 | 400 | 32 | 57 | 72 | 41 | 50 | 60 | 89,05 | FI-W-38S-W3 | | |
| 1.50 | 5800 | 1.26 | 2.24 | 2.83 | 1.61 | 1.97 | 2.36 | 196.90 | | | |

Ordering Codes

FI-W-10*L*-W3*-MS

- * Equal Elbow FI-W
- * Outside Tube Diameter D1 (in mm) -10
- * Series LL
Extra-Light Series
Light Series L
Heavy Series S
- * Material Code -W3
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Design —
Made from forging blanks
Made from profile material PR
- * Assembling / Kitting —
Fitting body only
Fitting body supplied with cutting rings and union nuts -MS
Fitting body supplied with soft-sealing cutting rings and union nuts -MSV

Connecting Parts

-  Cutting Ring
Type FI-DS Page 26
-  Soft-Sealing Cutting Ring
Type FI-WDDS Page 27
-  Support Sleeve
Type FI-VH Page 28
-  STAUFF Form Ring
Type FI-AR Page 30
-  Union Nut
Type FI-M Page 31
-  37° Flared Tube Fitting Set
Type FI-AB Page 35

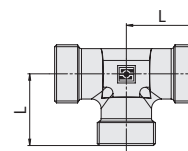
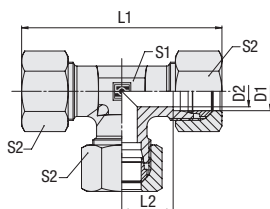
¹ Approximate dimension in assembled condition.

² Weight excluding cutting rings and union nuts.

³ Standard scope of delivery: Fitting body only.



Equal Tee Type FI-T • Series LL / L / S



D

Ordering Codes

FI-T-10*L*-W3*-MS

- * Equal Tee **FI-T**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **LL**
 - Extra-Light Series **L**
 - Light Series **S**
 - Heavy Series
- * Material Code **-W3**
 - Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
 - Fitting body only
 - Fitting body supplied with cutting rings and union nuts **-MS**
 - Fitting body supplied with soft-sealing cutting rings and union nuts **-MSV**

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

| Series | Tube OD | PN | Dimensions | | | | | | Weight (^{kg} /lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|---------------|-------|------------|---------------|------|-----------------|------|--------|---|-----------------------------|
| | (mm/in) D1 | | (bar/PSI) | (mm/in) D2 | L | L1 ¹ | L2 | S1 | | |
| LL | 4 | 100 | 3 | 15 | 42 | 11 | 9 | 10 | 1,00 | FI-T-04LL-W3 |
| | .16 | 1450 | .12 | .59 | 1.65 | .43 | .35 | .39 | 2.20 | |
| | 6 | 100 | 4,5 | 15 | 42 | 9,5 | 9 | 12 | 1,23 | FI-T-06LL-W3 |
| | .24 | 1450 | .18 | .59 | 1.65 | .37 | .35 | .47 | 2.70 | |
| | 8 | 100 | 6 | 17 | 46 | 11,5 | 12 | 14 | 1,91 | FI-T-08LL-W3 |
| .31 | 1450 | .24 | .67 | 1.81 | .45 | .47 | .55 | 4.19 | | |
| L | 6 | 500 | 4 | 19 | 54 | 12 | 12 | 14 | 2,66 | FI-T-06L-W3 |
| | .24 | 7250 | .16 | .75 | 2.13 | .47 | .47 | .55 | 5.86 | |
| | 8 | 500 | 6 | 21 | 58 | 14 | 12 | 17 | 3,17 | FI-T-08L-W3 |
| | .31 | 7250 | .24 | .83 | 2.28 | .55 | .47 | .67 | 6.97 | |
| | 10 | 500 | 8 | 22 | 60 | 15 | 14 | 19 | 4,06 | FI-T-10L-W3 |
| | .39 | 7250 | .31 | .87 | 2.36 | .59 | .55 | .75 | 8.93 | |
| | 12 | 400 | 10 | 24 | 64 | 17 | 17 | 22 | 5,52 | FI-T-12L-W3 |
| | .47 | 5800 | .39 | .94 | 2.52 | .67 | .67 | .87 | 12.15 | |
| | 15 | 400 | 12 | 28 | 72 | 21 | 19 | 27 | 9,98 | FI-T-15L-W3 |
| | .59 | 5800 | .47 | 1.10 | 2.83 | .83 | .75 | 1.06 | 21.95 | |
| | 18 | 400 | 15 | 31 | 80 | 23,5 | 24 | 32 | 14,83 | FI-T-18L-W3 |
| | .71 | 5800 | .59 | 1.22 | 3.15 | .93 | .94 | 1.26 | 32.63 | |
| | 22 | 250 | 19 | 35 | 88 | 27,5 | 27 | 36 | 18,81 | FI-T-22L-W3 |
| | .87 | 3625 | .75 | 1.38 | 3.46 | 1.08 | 1.06 | 1.42 | 41.39 | |
| | 28 | 250 | 24 | 38 | 94 | 30,5 | 36 | 41 | 30,44 | FI-T-28L-W3 |
| | 1.10 | 3625 | .94 | 1.50 | 3.70 | 1.20 | 1.42 | 1.61 | 66.97 | |
| | 35 | 250 | 30 | 45 | 112 | 34,5 | 41 | 50 | 49,27 | FI-T-35L-W3 |
| | 1.38 | 3625 | 1.18 | 1.77 | 4.41 | 1.36 | 1.61 | 1.97 | 108.39 | |
| | 42 | 250 | 36 | 51 | 126 | 40 | 50 | 60 | 72,20 | FI-T-42L-W3 |
| | 1.65 | 3625 | 1.42 | 2.01 | 4.96 | 1.57 | 1.97 | 2.36 | 158.84 | |
| S | 6 | 800 | 4 | 23 | 62 | 16 | 12 | 17 | 4,60 | FI-T-06S-W3 |
| | .24 | 11600 | .16 | .91 | 2.44 | .63 | .47 | .67 | 10.12 | |
| | 8 | 800 | 5 | 24 | 64 | 17 | 14 | 19 | 6,21 | FI-T-08S-W3 |
| | .31 | 11600 | .20 | .94 | 2.52 | .67 | .55 | .75 | 13.65 | |
| | 10 | 800 | 7 | 25 | 68 | 17,5 | 17 | 22 | 7,92 | FI-T-10S-W3 |
| | .39 | 11600 | .28 | .98 | 2.68 | .69 | .67 | .87 | 17.42 | |
| | 12 | 630 | 8 | 29 | 76 | 21,5 | 17 | 24 | 10,88 | FI-T-12S-W3 |
| | .47 | 9135 | .31 | 1.14 | 2.99 | .85 | .67 | .94 | 23.93 | |
| | 14 | 630 | 10 | 30 | 80 | 22 | 19 | 27 | 12,97 | FI-T-14S-W3 |
| | .55 | 9135 | .39 | 1.18 | 3.15 | .87 | .75 | 1.06 | 28.53 | |
| | 16 | 630 | 12 | 33 | 86 | 24,5 | 24 | 30 | 10,97 | FI-T-16S-W3 |
| | .63 | 9135 | .47 | 1.30 | 3.39 | .96 | .94 | 1.18 | 24.14 | |
| | 20 | 400 | 16 | 37 | 96 | 26,5 | 27 | 36 | 25,58 | FI-T-20S-W3 |
| | .79 | 5800 | .63 | 1.46 | 3.78 | 1.04 | 1.06 | 1.42 | 56.28 | |
| | 25 | 400 | 20 | 42 | 108 | 30 | 36 | 46 | 44,75 | FI-T-25S-W3 |
| | .98 | 5800 | .79 | 1.65 | 4.25 | 1.18 | 1.42 | 1.81 | 98.46 | |
| | 30 | 400 | 25 | 49 | 124 | 35,5 | 41 | 50 | 68,20 | FI-T-30S-W3 |
| | 1.18 | 5800 | .98 | 1.93 | 4.88 | 1.40 | 1.61 | 1.97 | 150.04 | |
| 38 | 400 | 32 | 57 | 144 | 41 | 50 | 60 | 108,00 | FI-T-38S-W3 | |
| 1.50 | 5800 | 1.26 | 2.24 | 5.67 | 1.61 | 1.97 | 2.36 | 237.60 | | |

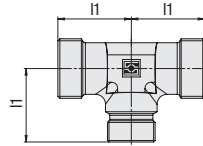
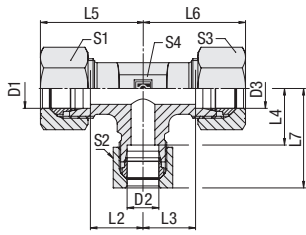
¹ Approximate dimension in assembled condition.

² Weight excluding cutting rings and union nuts.

³ Standard scope of delivery: Fitting body only.



Tee Reducer
Type FI-T • Series L



Sequence of connections
in the ordering codes for
tee reducers:



| Series | Tube OD (mm/in) | | | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----|-----|-----------------|-----------------------|------|------|------|------|-----------------|-----------------|-----------------|------|------|-----|-------|-------------------|--|-----------------------------|
| | D1 | D2 | D3 | | I1 | L1 | L2 | L3 | L4 | L5 ¹ | L6 ¹ | L7 ¹ | S1 | S2 | S3 | | | | |
| L | 6 | 8 | 6 | 500 | 21 | 14 | 14 | 14 | 14 | 29 | 29 | 29 | 17 | 14 | 12 | 3,81 | FI-T-06/08/06L-W3 | | |
| | .24 | .31 | .24 | 7250 | .83 | .55 | .55 | .55 | .55 | 1.14 | 1.14 | 1.14 | .67 | .55 | .47 | 8.38 | | | |
| L | 6 | 10 | 6 | 500 | 22 | 15 | 15 | 15 | 14 | 30 | 30 | 30 | 19 | 14 | 14 | 4,90 | FI-T-06/10/06L-W3 | | |
| | .24 | .39 | .24 | 7250 | .87 | .59 | .59 | .59 | .55 | 1.18 | 1.18 | 1.18 | .75 | .55 | .55 | 10.78 | | | |
| L | 8 | 6 | 8 | 500 | 21 | 14 | 14 | 14 | 17 | 29 | 29 | 29 | 14 | 17 | 12 | 3,27 | FI-T-08/06/08L-W3 | | |
| | .31 | .24 | .31 | 7250 | .83 | .55 | .55 | .55 | .67 | 1.14 | 1.14 | 1.14 | .55 | .67 | .47 | 7.20 | | | |
| L | 8 | 10 | 8 | 500 | 22 | 15 | 15 | 15 | 17 | 30 | 30 | 30 | 19 | 17 | 14 | 4,35 | FI-T-08/10/08L-W3 | | |
| | .31 | .39 | .31 | 7250 | .87 | .59 | .59 | .59 | .67 | 1.18 | 1.18 | 1.18 | .75 | .67 | .55 | 9.57 | | | |
| L | 8 | 12 | 8 | 400 | 24 | 17 | 17 | 17 | 17 | 32 | 32 | 32 | 22 | 17 | 17 | 5,94 | FI-T-08/12/08L-W3 | | |
| | .31 | .47 | .31 | 5800 | .94 | .67 | .67 | .67 | .67 | 1.26 | 1.26 | 1.26 | .87 | .67 | .67 | 13.06 | | | |
| L | 10 | 6 | 10 | 500 | 22 | 15 | 15 | 15 | 19 | 30 | 30 | 30 | 14 | 19 | 14 | 4,18 | FI-T-10/06/10L-W3 | | |
| | .39 | .24 | .39 | 7250 | .87 | .59 | .59 | .59 | .75 | 1.18 | 1.18 | 1.18 | .55 | .75 | .55 | 9.19 | | | |
| L | 10 | 8 | 10 | 500 | 22 | 15 | 15 | 15 | 19 | 30 | 30 | 30 | 17 | 19 | 14 | 4,11 | FI-T-10/08/10L-W3 | | |
| | .39 | .31 | .39 | 7250 | .87 | .59 | .59 | .59 | .75 | 1.18 | 1.18 | 1.18 | .67 | .75 | .55 | 9.05 | | | |
| L | 10 | 15 | 10 | 400 | 28 | 21 | 21 | 21 | 19 | 36 | 36 | 36 | 27 | 19 | 19 | 10,05 | FI-T-10/15/10L-W3 | | |
| | .39 | .59 | .39 | 5800 | 1.10 | .83 | .83 | .83 | .87 | 1.42 | 1.42 | 1.42 | 1.06 | .75 | .75 | 22.10 | | | |
| L | 12 | 6 | 12 | 400 | 24 | 17 | 17 | 17 | 22 | 32 | 32 | 32 | 14 | 22 | 17 | 5,66 | FI-T-12/06/12L-W3 | | |
| | .47 | .24 | .47 | 5800 | .94 | .67 | .67 | .67 | .87 | 1.26 | 1.26 | 1.26 | .55 | .87 | .67 | 12.44 | | | |
| L | 12 | 8 | 12 | 400 | 24 | 17 | 17 | 17 | 22 | 32 | 32 | 32 | 17 | 22 | 17 | 5,68 | FI-T-12/08/12L-W3 | | |
| | .47 | .31 | .47 | 5800 | .94 | .67 | .67 | .67 | .87 | 1.26 | 1.26 | 1.26 | .67 | .87 | .67 | 12.50 | | | |
| L | 12 | 10 | 12 | 400 | 24 | 17 | 17 | 17 | 22 | 32 | 32 | 32 | 19 | 22 | 17 | 5,58 | FI-T-12/10/12L-W3 | | |
| | .47 | .39 | .47 | 5800 | .94 | .67 | .67 | .67 | .87 | 1.26 | 1.26 | 1.26 | .75 | .87 | .67 | 12.28 | | | |
| L | 12 | 15 | 12 | 400 | 28 | 21 | 21 | 21 | 22 | 36 | 36 | 36 | 27 | 22 | 19 | 9,73 | FI-T-12/15/12L-W3 | | |
| | .47 | .59 | .47 | 5800 | 1.10 | .83 | .83 | .83 | .87 | 1.42 | 1.42 | 1.42 | 1.06 | .87 | .75 | 21.41 | | | |
| L | 12 | 18 | 12 | 400 | 31 | 24 | 23,5 | 24 | 22 | 40 | 39 | 39 | 32 | 22 | 24 | 14,87 | FI-T-12/18/12L-W3 | | |
| | .47 | .71 | .47 | 5800 | 1.22 | .94 | .93 | .94 | .87 | 1.57 | 1.54 | 1.54 | 1.26 | .87 | .94 | 32.72 | | | |
| L | 15 | 6 | 15 | 400 | 28 | 21 | 21 | 21 | 27 | 36 | 36 | 36 | 14 | 27 | 19 | 10,06 | FI-T-15/06/15L-W3 | | |
| | .59 | .24 | .59 | 5800 | 1.10 | .83 | .83 | .83 | 1.06 | 1.42 | 1.42 | 1.42 | .55 | 1.06 | .75 | 22.14 | | | |
| L | 15 | 10 | 15 | 400 | 28 | 21 | 21 | 21 | 27 | 36 | 36 | 36 | 19 | 27 | 19 | 9,82 | FI-T-15/10/15L-W3 | | |
| | .59 | .39 | .59 | 5800 | 1.10 | .83 | .83 | .83 | 1.06 | 1.42 | 1.42 | 1.42 | .75 | 1.06 | .75 | 21.61 | | | |
| L | 15 | 12 | 15 | 400 | 28 | 21 | 21 | 21 | 27 | 36 | 36 | 36 | 22 | 27 | 19 | 9,70 | FI-T-15/12/15L-W3 | | |
| | .59 | .47 | .59 | 5800 | 1.10 | .83 | .83 | .83 | 1.06 | 1.42 | 1.42 | 1.42 | .87 | 1.06 | .75 | 21.35 | | | |
| L | 15 | 18 | 15 | 400 | 31 | 24 | 23,5 | 24 | 27 | 40 | 39 | 39 | 32 | 27 | 24 | 15,22 | FI-T-15/18/15L-W3 | | |
| | .59 | .71 | .59 | 5800 | 1.22 | .94 | .93 | .94 | 1.06 | 1.57 | 1.54 | 1.54 | 1.26 | 1.06 | .94 | 33.48 | | | |
| L | 18 | 10 | 18 | 400 | 31 | 23,5 | 24 | 23,5 | 32 | 39 | 40 | 40 | 19 | 32 | 24 | 14,52 | FI-T-18/10/18L-W3 | | |
| | .71 | .39 | .71 | 5800 | 1.22 | .93 | .94 | .93 | 1.26 | 1.54 | 1.57 | 1.57 | .75 | 1.26 | .94 | 31.95 | | | |
| L | 18 | 12 | 18 | 400 | 31 | 23,5 | 24 | 23,5 | 32 | 39 | 40 | 40 | 22 | 32 | 24 | 14,76 | FI-T-18/12/18L-W3 | | |
| | .71 | .47 | .71 | 5800 | 1.22 | .93 | .94 | .93 | 1.26 | 1.54 | 1.57 | 1.57 | .87 | 1.26 | .94 | 32.48 | | | |
| L | 18 | 15 | 18 | 400 | 31 | 23,5 | 24 | 23,5 | 32 | 39 | 40 | 40 | 27 | 32 | 24 | 14,62 | FI-T-18/15/18L-W3 | | |
| | .71 | .59 | .71 | 5800 | 1.22 | .93 | .94 | .93 | 1.26 | 1.54 | 1.57 | 1.57 | 1.06 | 1.26 | .94 | 32.16 | | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting rings and union nuts.

³ Standard scope of delivery: Fitting body only.

Ordering Codes

***FI-T*-10/*08/*10*L*-W3*-MS**

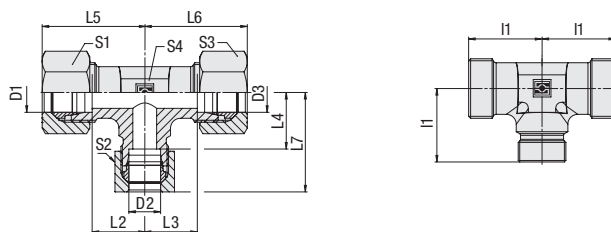
- * Tee Reducer FI-T
- * Outside Tube Diameter D1 (in mm) -10
- * Outside Tube Diameter D2 (in mm) 08
- * Outside Tube Diameter D3 (in mm) 10
- * Series L
Light Series (page 87)
- Heavy Series (page 88) S
- * Material Code -W3
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting —
Fitting body only
- Fitting body supplied with cutting rings and union nuts -MS
- Fitting body supplied with soft-sealing cutting rings and union nuts -MSV

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35



Tee Reducer
Type FI-T • Series L / S



Sequence of connections in the ordering codes for tee reducers:



D

Ordering Codes

***FI-T*-10/*08/*10*L*-W3*-MS**

- * Tee Reducer **FI-T**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Outside Tube Diameter D2 (in mm) **08**
- * Outside Tube Diameter D3 (in mm) **10**
- * Series **L**
Light Series (page 87)
S
Heavy Series (page 88)
- * Material Code **-W3**
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
Fitting body only
- MS**
Fitting body supplied with cutting rings and union nuts
- MSV**
Fitting body supplied with soft-sealing cutting rings and union nuts

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

| Series | Tube OD (mm/in) | | | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|------|------|-----------------|-----------------------|------|------|------|------|-----------------|-----------------|-----------------|------|------|--------|-------------------|-------------------|--|-----------------------------|
| | D1 | D2 | D3 | | I1 | L1 | L2 | L3 | L4 | L5 ¹ | L6 ¹ | L7 ¹ | S1 | S2 | S3 | | | | |
| L | 22 | 10 | 22 | 250 | 35 | 27,5 | 28 | 27,5 | 36 | 43 | 44 | 44 | 19 | 36 | 27 | 19,89 | FI-T-22/10/22L-W3 | | |
| | .87 | .39 | .87 | 3625 | 1.38 | 1.08 | 1.10 | 1.08 | 1.42 | 1.69 | 1.73 | 1.73 | .75 | 1.42 | 1.06 | 43,75 | | | |
| | 22 | 12 | 22 | 250 | 35 | 27,5 | 28 | 27,5 | 36 | 43 | 44 | 44 | 22 | 36 | 27 | 20,30 | FI-T-22/12/22L-W3 | | |
| | .87 | .47 | .87 | 3625 | 1.38 | 1.08 | 1.10 | 1.08 | 1.42 | 1.69 | 1.73 | 1.73 | .87 | 1.42 | 1.06 | 44,66 | | | |
| | 22 | 15 | 22 | 250 | 35 | 27,5 | 28 | 27,5 | 36 | 43 | 44 | 44 | 27 | 36 | 27 | 20,19 | FI-T-22/15/22L-W3 | | |
| | 0,87 | .59 | .87 | 3625 | 1.38 | 1.08 | 1.10 | 1.08 | 1.42 | 1.69 | 1.73 | 1.73 | 1.06 | 1.42 | 1.06 | 44,43 | | | |
| | 22 | 18 | 22 | 250 | 35 | 27,5 | 27,5 | 27,5 | 36 | 44 | 44 | 44 | 32 | 36 | 27 | 20,29 | FI-T-22/18/22L-W3 | | |
| | .87 | .71 | .87 | 3625 | 1.38 | 1.08 | 1.08 | 1.08 | 1.42 | 1.73 | 1.73 | 1.73 | 1.26 | 1.42 | 1.06 | 44,64 | | | |
| | 28 | 10 | 28 | 250 | 38 | 30,5 | 31 | 30,5 | 41 | 46 | 47 | 47 | 19 | 41 | 36 | 32,82 | FI-T-28/10/28L-W3 | | |
| | 1.10 | .39 | 1.10 | 3625 | 1.50 | 1.20 | 1.22 | 1.20 | 1.61 | 1.81 | 1.85 | 1.85 | .75 | 1.61 | 1.42 | 72,20 | | | |
| | 28 | 12 | 28 | 250 | 38 | 30,5 | 31 | 30,5 | 41 | 46 | 47 | 47 | 22 | 41 | 36 | 34,10 | FI-T-28/12/28L-W3 | | |
| | 1.10 | .47 | 1.10 | 3625 | 1.50 | 1.20 | 1.22 | 1.20 | 1.61 | 1.81 | 1.85 | 1.85 | .87 | 1.61 | 1.42 | 75,02 | | | |
| | 28 | 15 | 28 | 250 | 38 | 30,5 | 31 | 30,5 | 41 | 46 | 47 | 47 | 27 | 41 | 36 | 22,97 | FI-T-28/15/28L-W3 | | |
| | 1.10 | .59 | 1.10 | 3625 | 1.50 | 1.20 | 1.22 | 1.20 | 1.61 | 1.81 | 1.85 | 1.85 | 1.06 | 1.61 | 1.42 | 50,54 | | | |
| | 28 | 18 | 28 | 250 | 38 | 30,5 | 30,5 | 30,5 | 41 | 47 | 47 | 47 | 32 | 41 | 36 | 18,70 | FI-T-28/18/28L-W3 | | |
| | 1.10 | .71 | 1.10 | 3625 | 1.50 | 1.20 | 1.20 | 1.20 | 1.61 | 1.85 | 1.85 | 1.85 | 1.42 | 1.61 | 1.42 | 41,14 | | | |
| | 28 | 22 | 28 | 250 | 38 | 30,5 | 30,5 | 30,5 | 41 | 47 | 47 | 47 | 36 | 41 | 36 | 31,70 | FI-T-28/22/28L-W3 | | |
| | 1.10 | .87 | 1.10 | 3625 | 1.50 | 1.20 | 1.20 | 1.20 | 1.61 | 1.85 | 1.85 | 1.85 | 1.42 | 1.61 | 1.42 | 69,74 | | | |
| | 35 | 18 | 35 | 250 | 45 | 34,5 | 37,5 | 34,5 | 50 | 54 | 56 | 56 | 32 | 50 | 41 | 59,68 | FI-T-35/18/35L-W3 | | |
| | 1.38 | .71 | 1.38 | 3625 | 1.77 | 1.36 | 1.48 | 1.36 | 1.97 | 2.13 | 2.20 | 2.20 | 1.26 | 1.97 | 1.61 | 131,30 | | | |
| 35 | 22 | 35 | 250 | 45 | 34,5 | 37,5 | 34,5 | 50 | 54 | 56 | 56 | 36 | 50 | 41 | 55,00 | FI-T-35/22/35L-W3 | | | |
| 1.38 | .87 | 1.38 | 3625 | 1.77 | 1.36 | 1.48 | 1.36 | 1.97 | 2.13 | 2.20 | 2.20 | 1.42 | 1.97 | 1.61 | 121,00 | | | | |
| 35 | 28 | 35 | 250 | 45 | 34,5 | 37,5 | 34,5 | 50 | 54 | 56 | 56 | 41 | 50 | 41 | 49,74 | FI-T-35/28/35L-W3 | | | |
| 1.38 | 1.10 | 1.38 | 3625 | 1.77 | 1.36 | 1.48 | 1.36 | 1.97 | 2.13 | 2.20 | 2.20 | 1.61 | 1.97 | 1.61 | 109,43 | | | | |
| 42 | 22 | 42 | 250 | 51 | 40 | 43,5 | 40 | 60 | 60 | 63 | 63 | 36 | 60 | 50 | 102,57 | FI-T-42/22/42L-W3 | | | |
| 1.65 | .87 | 1.65 | 3625 | 2.01 | 1.57 | 1.71 | 1.57 | 2.36 | 2.36 | 2.48 | 2.48 | 1.42 | 2.36 | 1.97 | 225,66 | | | | |
| 42 | 28 | 42 | 250 | 51 | 40 | 43,5 | 40 | 60 | 60 | 63 | 63 | 41 | 60 | 50 | 77,33 | FI-T-42/28/42L-W3 | | | |
| 1.65 | 1.10 | 1.65 | 3625 | 2.01 | 1.57 | 1.71 | 1.57 | 2.36 | 2.36 | 2.48 | 2.48 | 1.61 | 2.36 | 1.97 | 170,13 | | | | |
| 42 | 35 | 42 | 250 | 51 | 40 | 40,5 | 40 | 60 | 62 | 63 | 63 | 50 | 60 | 50 | 80,30 | FI-T-42/35/42L-W3 | | | |
| 1.65 | 1.38 | 1.65 | 3625 | 2.01 | 1.57 | 1.59 | 1.57 | 2.36 | 2.44 | 2.48 | 2.48 | 1.97 | 2.36 | 1.97 | 176,66 | | | | |
| S | 16 | 8 | 16 | 630 | 33 | 24,5 | 26 | 24,5 | 30 | 41 | 43 | 43 | 19 | 30 | 24 | 18,08 | FI-T-16/08/16S-W3 | | |
| | .63 | .31 | .63 | 9135 | 1.30 | .96 | 1.02 | .96 | 1.18 | 1.61 | 1.69 | 1.69 | .75 | 1.18 | .94 | 39,78 | | | |
| | 16 | 10 | 16 | 630 | 33 | 24,5 | 25,5 | 24,5 | 30 | 42 | 43 | 43 | 22 | 30 | 24 | 18,12 | FI-T-16/10/16S-W3 | | |
| | .63 | .39 | .63 | 9135 | 1.30 | .96 | 1.00 | .96 | 1.18 | 1.65 | 1.69 | 1.69 | .87 | 1.18 | .94 | 39,86 | | | |
| | 16 | 12 | 16 | 630 | 33 | 24,5 | 25,5 | 24,5 | 30 | 42 | 43 | 43 | 24 | 30 | 24 | 18,10 | FI-T-16/12/16S-W3 | | |
| | .63 | .47 | .63 | 9135 | 1.30 | .96 | 1.00 | .96 | 1.18 | 1.65 | 1.69 | 1.69 | .94 | 1.18 | .94 | 39,82 | | | |
| | 20 | 10 | 20 | 400 | 37 | 26,5 | 29,5 | 26,5 | 36 | 46 | 48 | 48 | 22 | 36 | 27 | 28,30 | FI-T-20/10/20S-W3 | | |
| | .79 | .39 | .79 | 5800 | 1.46 | 1.04 | 1.16 | 1.04 | 1.42 | 1.81 | 1.89 | 1.89 | .87 | 1.42 | 1.06 | 62,26 | | | |
| | 20 | 16 | 20 | 400 | 37 | 26,5 | 28,5 | 26,5 | 36 | 47 | 48 | 48 | 30 | 36 | 27 | 26,21 | FI-T-20/16/20S-W3 | | |
| | .79 | .63 | .79 | 5800 | 1.46 | 1.04 | 1.12 | 1.04 | 1.42 | 1.85 | 1.89 | 1.89 | 1.18 | 1.42 | 1.06 | 57,66 | | | |
| | 25 | 16 | 25 | 400 | 42 | 30 | 33,5 | 30 | 46 | 52 | 54 | 54 | 30 | 46 | 36 | 45,80 | FI-T-25/16/25S-W3 | | |
| | .98 | .63 | .98 | 5800 | 1.65 | 1.18 | 1.32 | 1.18 | 1.81 | 2.05 | 2.13 | 2.13 | 1.18 | 1.81 | 1.42 | 100,76 | | | |
| | 25 | 20 | 25 | 400 | 42 | 30 | 31,5 | 30 | 46 | 53 | 54 | 54 | 36 | 46 | 36 | 45,04 | FI-T-25/20/25S-W3 | | |
| | .98 | .79 | .98 | 5800 | 1.65 | 1.18 | 1.24 | 1.18 | 1.81 | 2.09 | 2.13 | 2.13 | 1.42 | 1.81 | 1.42 | 99,08 | | | |
| | 25 | 30 | 25 | 400 | 49 | 37 | 35,5 | 37 | 46 | 62 | 61 | 61 | 50 | 46 | 41 | 72,40 | FI-T-25/30/25S-W3 | | |
| | .98 | 1.18 | .98 | 5800 | 1.93 | 1.46 | 1.40 | 1.46 | 1.81 | 2.44 | 2.40 | 2.40 | 1.97 | 1.81 | 1.61 | 159,28 | | | |
| | 30 | 20 | 30 | 400 | 49 | 35,5 | 38,5 | 35,5 | 50 | 48 | 62 | 62 | 36 | 50 | 41 | 80,00 | FI-T-30/20/30S-W3 | | |
| | 1.18 | .79 | 1.18 | 5800 | 1.93 | 1.40 | 1.52 | 1.40 | 1.97 | 1.89 | 2.44 | 2.44 | 1.42 | 1.97 | 1.61 | 176,00 | | | |
| | 38 | 25 | 38 | 400 | 57 | 41 | 45 | 41 | 60 | 69 | 72 | 72 | 46 | 60 | 50 | 134,72 | FI-T-38/25/38S-W3 | | |
| | 1.50 | .98 | 1.50 | 5800 | 2.24 | 1.61 | 1.77 | 1.61 | 2.36 | 2.72 | 2.83 | 2.83 | 1.81 | 2.36 | 1.97 | 296,38 | | | |
| 38 | 30 | 38 | 400 | 57 | 41 | 43,5 | 41 | 60 | 70 | 72 | 72 | 50 | 60 | 50 | 125,00 | FI-T-38/30/38S-W3 | | | |
| 1.50 | 1.18 | 1.50 | 5800 | 2.24 | 1.61 | 1.71 | 1.61 | 2.36 | 2.76 | 2.83 | 2.83 | 1.97 | 2.36 | 1.97 | 275,00 | | | | |

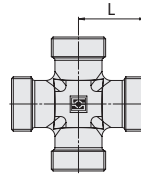
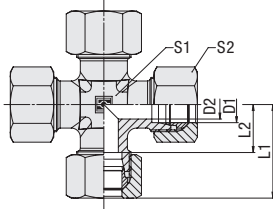
¹ Approximate dimension in assembled condition.

² Weight excluding cutting rings and union nuts.

³ Standard scope of delivery: Fitting body only.



Equal Cross
Type FI-K • Series LL / L / S



| Series | Tube OD | | Dimensions | | | | | | | Weight (%/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|---------|-----------------|------------|------|-----------------|------|------|--------|-------------|---|-----------------------------|
| | (mm/in) | PN (bar/PSI) | (mm/in) | | | | | | | | |
| | D1 | | D2 | L | L1 ¹ | L2 | S1 | S2 | | | |
| LL | 4 | 100 | 3 | 15 | 21 | 11 | 9 | 10 | 1,68 | FI-K-04LL-W3 | |
| | .16 | 1450 | .12 | .59 | .83 | .43 | .35 | .39 | 3.69 | | |
| | 6 | 100 | 4,5 | 15 | 21 | 9,5 | 9 | 12 | 1,76 | FI-K-06LL-W3 | |
| | .24 | 1450 | .18 | .59 | .83 | .37 | .35 | .47 | 3.87 | | |
| | 8 | 100 | 6 | 17 | 23 | 11,5 | 12 | 14 | 2,85 | FI-K-08LL-W3 | |
| .31 | 1450 | .24 | .67 | .91 | .45 | .47 | .55 | 6.27 | | | |
| L | 6 | 500 | 4 | 19 | 27 | 12 | 12 | 14 | 3,40 | FI-K-06L-W3 | |
| | .24 | 7250 | .16 | .75 | 1.06 | .47 | .47 | .55 | 7.48 | | |
| | 8 | 500 | 6 | 21 | 29 | 14 | 12 | 17 | 3,93 | FI-K-08L-W3 | |
| | .31 | 7250 | .24 | .83 | 1.14 | .55 | .47 | .67 | 8.64 | | |
| | 10 | 500 | 8 | 22 | 30 | 15 | 14 | 19 | 5,01 | FI-K-10L-W3 | |
| | .39 | 7250 | .31 | .87 | 1.18 | .59 | .55 | .75 | 11.02 | | |
| | 12 | 400 | 10 | 24 | 32 | 17 | 17 | 22 | 6,90 | FI-K-12L-W3 | |
| | .47 | 5800 | .39 | .94 | 1.26 | .67 | .67 | .87 | 15.19 | | |
| | 15 | 400 | 12 | 28 | 36 | 21 | 19 | 27 | 12,36 | FI-K-15L-W3 | |
| | .59 | 5800 | .47 | 1.10 | 1.42 | .83 | .75 | 1.06 | 27.19 | | |
| | 18 | 400 | 15 | 31 | 40 | 23,5 | 24 | 32 | 17,40 | FI-K-18L-W3 | |
| | .71 | 5800 | .59 | 1.22 | 1.57 | .93 | .94 | 1.26 | 38.28 | | |
| | 22 | 250 | 19 | 35 | 44 | 27,5 | 27 | 36 | 22,60 | FI-K-22L-W3 | |
| | .87 | 3625 | .75 | 1.38 | 1.73 | 1.08 | 1.06 | 1.42 | 49.72 | | |
| | 28 | 250 | 24 | 38 | 47 | 30,5 | 36 | 41 | 35,60 | FI-K-28L-W3 | |
| | 1.10 | 3625 | .94 | 1.50 | 1.85 | 1.20 | 1.42 | 1.61 | 78.32 | | |
| | 35 | 250 | 30 | 45 | 56 | 34,5 | 41 | 50 | 54,67 | FI-K-35L-W3 | |
| | 1.38 | 3625 | 1.18 | 1.77 | 2.20 | 1.36 | 1.61 | 1.97 | 120.27 | | |
| | 42 | 250 | 36 | 51 | 63 | 40 | 50 | 60 | 92,70 | FI-K-42L-W3 | |
| | 1.65 | 3625 | 1.42 | 2.01 | 2.48 | 1.57 | 1.97 | 2.36 | 209.30 | | |
| S | 6 | 800 | 4 | 23 | 31 | 16 | 12 | 17 | 5,79 | FI-K-06S-W3 | |
| | .24 | 11600 | .16 | .91 | 1.22 | .63 | .47 | .67 | 12.74 | | |
| | 8 | 800 | 5 | 24 | 32 | 17 | 14 | 19 | 7,91 | FI-K-08S-W3 | |
| | .31 | 11600 | .20 | .94 | 1.26 | .67 | .55 | .75 | 17.41 | | |
| | 10 | 800 | 7 | 25 | 34 | 17,5 | 17 | 22 | 10,13 | FI-K-10S-W3 | |
| | .39 | 11600 | .28 | .98 | 1.34 | .69 | .67 | .87 | 22.28 | | |
| | 12 | 630 | 8 | 29 | 38 | 21,5 | 17 | 24 | 13,59 | FI-K-12S-W3 | |
| | .47 | 9135 | .31 | 1.14 | 1.50 | .85 | .67 | .94 | 29.90 | | |
| | 14 | 630 | 10 | 30 | 40 | 22 | 19 | 27 | 16,21 | FI-K-14S-W3 | |
| | .55 | 9135 | .39 | 1.18 | 1.57 | .87 | .75 | 1.06 | 35.65 | | |
| | 16 | 630 | 12 | 33 | 43 | 24,5 | 24 | 30 | 22,15 | FI-K-16S-W3 | |
| | .63 | 9135 | .47 | 1.30 | 1.69 | .96 | .94 | 1.18 | 48.73 | | |
| | 20 | 400 | 16 | 37 | 48 | 26,5 | 27 | 36 | 31,07 | FI-K-20S-W3 | |
| | .79 | 5800 | .63 | 1.46 | 1.89 | 1.04 | 1.06 | 1.42 | 68.35 | | |
| | 25 | 400 | 20 | 42 | 54 | 30 | 36 | 46 | 53,00 | FI-K-25S-W3 | |
| .98 | 5800 | .79 | 1.65 | 2.13 | 1.18 | 1.42 | 1.81 | 116.60 | | | |
| 30 | 400 | 25 | 49 | 62 | 35,5 | 41 | 50 | 84,30 | FI-K-30S-W3 | | |
| 1.18 | 5800 | .98 | 1.93 | 2.44 | 1.40 | 1.61 | 1.97 | 185.46 | | | |
| 38 | 400 | 32 | 57 | 72 | 41 | 50 | 60 | 135,10 | FI-K-38S-W3 | | |
| 1.50 | 5800 | 1.26 | 2.24 | 2.83 | 1.61 | 1.97 | 2.36 | 297.22 | | | |

Ordering Codes

FI-K-10*L*-W3*-MS

- * Equal Cross FI-K
- * Outside Tube Diameter D1 (in mm) -10
- * Series LL
Extra-Light Series L
Light Series S
Heavy Series
- * Material Code -W3
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting —
Fitting body only
- Fitting body supplied with cutting rings and union nuts -MS
- Fitting body supplied with soft-sealing cutting rings and union nuts -MSV

Connecting Parts

-  Cutting Ring
Type FI-DS Page 26
-  Soft-Sealing Cutting Ring
Type FI-WDDS Page 27
-  Support Sleeve
Type FI-VH Page 28
-  STAUFF Form Ring
Type FI-AR Page 30
-  Union Nut
Type FI-M Page 31
-  37° Flared Tube Fitting Set
Type FI-AB Page 35

¹ Approximate dimension in assembled condition.
² Weight excluding cutting rings and union nuts.
³ Standard scope of delivery: Fitting body only.





**Straight Bulkhead Fitting**

FI-GS

92

**Elbow Bulkhead Fittings**

FI-WS

93

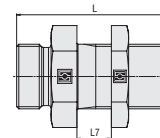
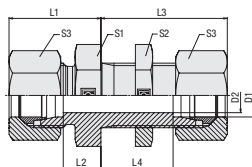
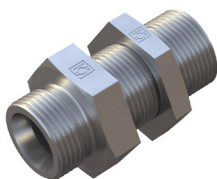
**Straight Bulkhead Weld Fitting**

FI-ES

94



Straight Bulkhead Fitting
Type FI-GS ▪ Series L / S



Ordering Codes

***FI-GS*-10*L*-W3*-MS**

- * Straight Bulkhead Fitting **FI-GS**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
Light Series **S**
Heavy Series
- * Material Code **-W3**
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
Fitting body only
- Fitting body supplied with hexagon lock nut **-SKM**
- Fitting body supplied with cutting rings and union nuts **-MS**
- Fitting body supplied with soft-sealing cutting rings and union nuts **-MSV**

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

Spare Parts / Accessories

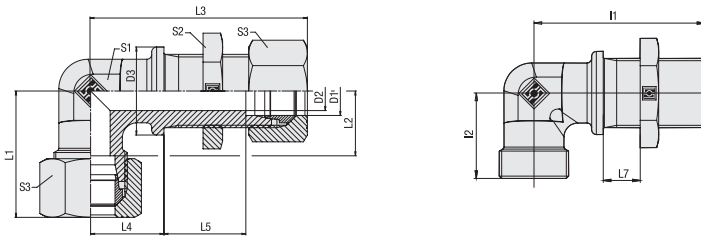
- Hexagon Lock Nut
Type **FI-SKM** Page 205

| Series | Tube OD | PN | Dimensions | | | | | | | | | | | Weight (^{kg} / _{lbs}) ca. per 100 ² | Ordering Codes ³ |
|--------|---|-------|---|------|-----------------|------|-----------------|------|-----------|-----------|------|------|--------|--|-----------------------------|
| | (^{mm} / _{in}) D1 | | (^{mm} / _{in}) D2 | L | L1 ¹ | L2 | L3 ¹ | L4 | L7 min | L7 max | S1 | S2 | S3 | | |
| L | 6 | 500 | 4 | 48 | 22 | 7 | 42 | 27 | 3 | 16 | 17 | 17 | 14 | 3,85 | FI-GS-06L-W3-SKM |
| | .24 | 7250 | .16 | 1.89 | .87 | .28 | 1.65 | 1.06 | .12 | .63 | .67 | .67 | .55 | 8,48 | |
| | 8 | 500 | 6 | 49 | 23 | 8 | 42 | 27 | 3 | 16 | 19 | 19 | 17 | 4,93 | FI-GS-08L-W3-SKM |
| | .31 | 7250 | .24 | 1.93 | .91 | .31 | 1.65 | 1.06 | .12 | .63 | .75 | .75 | .67 | 10,85 | |
| | 10 | 500 | 8 | 52 | 25 | 10 | 43 | 28 | 3 | 16 | 22 | 22 | 19 | 6,76 | FI-GS-10L-W3-SKM |
| | .39 | 7250 | .31 | 2.05 | .98 | .39 | 1.69 | 1.10 | .12 | .63 | .87 | .87 | .75 | 14,87 | |
| | 12 | 400 | 10 | 53 | 25 | 10 | 44 | 29 | 3 | 16 | 24 | 24 | 22 | 7,81 | FI-GS-12L-W3-SKM |
| | .47 | 5800 | .39 | 2.09 | .98 | .39 | 1.73 | 1.14 | .12 | .63 | .94 | .94 | .87 | 17,18 | |
| | 15 | 400 | 12 | 57 | 27 | 12 | 46 | 31 | 3 | 16 | 27 | 30 | 27 | 12,89 | FI-GS-15L-W3-SKM |
| | .59 | 5800 | .47 | 2.24 | 1.06 | .47 | 1.81 | 1.22 | .12 | .63 | 1.06 | 1.18 | 1.06 | 28,37 | |
| | 18 | 400 | 15 | 61 | 30 | 13,5 | 49 | 32,5 | 3 | 16 | 32 | 36 | 32 | 19,87 | FI-GS-18L-W3-SKM |
| | .71 | 5800 | .59 | 2.40 | 1.18 | .53 | 1.93 | 1.28 | .12 | .63 | 1.26 | 1.42 | 1.26 | 43,72 | |
| | 22 | 250 | 19 | 66 | 33 | 16,5 | 51 | 34,5 | 4 | 16 | 36 | 41 | 36 | 25,19 | FI-GS-22L-W3-SKM |
| | .87 | 3625 | .75 | 2.60 | 1.30 | .65 | 2.01 | 1.36 | .16 | .63 | 1.42 | 1.61 | 1.42 | 55,42 | |
| | 28 | 250 | 24 | 69 | 35 | 18,5 | 52 | 35,5 | 4 | 16 | 41 | 46 | 41 | 34,12 | FI-GS-28L-W3-SKM |
| | 1.10 | 3625 | .94 | 2.72 | 1.38 | .73 | 2.05 | 1.40 | .16 | .63 | 1.61 | 1.81 | 1.61 | 75,07 | |
| | 35 | 250 | 30 | 76 | 40 | 18,5 | 58 | 36,5 | 4 | 16 | 50 | 55 | 50 | 55,40 | FI-GS-35L-W3-SKM |
| | 1.38 | 3625 | 1.18 | 2.99 | 1.57 | .73 | 2.28 | 1.44 | .16 | .63 | 1.97 | 2.17 | 1.97 | 121,88 | |
| 42 | 250 | 36 | 77 | 42 | 19 | 59 | 36 | 4 | 16 | 60 | 65 | 60 | 75,30 | FI-GS-42L-W3-SKM | |
| 1.65 | 3625 | 1.42 | 3.03 | 1.65 | .75 | 2.32 | 1.42 | .16 | .63 | 2.36 | 2.56 | 2.36 | 165,66 | | |
| S | 6 | 800 | 4 | 55 | 27 | 12 | 44 | 29 | 3 | 16 | 19 | 19 | 17 | 6,50 | FI-GS-06S-W3-SKM |
| | .24 | 11600 | .16 | 2.17 | 1.06 | .47 | 1.73 | 1.14 | .12 | .63 | .75 | .75 | .67 | 14,30 | |
| | 8 | 800 | 5 | 56 | 28 | 13 | 44 | 29 | 3 | 16 | 22 | 22 | 19 | 8,84 | FI-GS-08S-W3-SKM |
| | .31 | 11600 | .20 | 2.20 | 1.10 | .51 | 1.73 | 1.14 | .12 | .63 | .87 | .87 | .75 | 19,44 | |
| | 10 | 800 | 7 | 59 | 31 | 14,5 | 46 | 29,5 | 3 | 16 | 24 | 24 | 22 | 11,18 | FI-GS-10S-W3-SKM |
| | .39 | 11600 | .28 | 2.32 | 1.22 | .57 | 1.81 | 1.16 | .12 | .63 | .94 | .94 | .87 | 24,59 | |
| | 12 | 630 | 8 | 60 | 31 | 14,5 | 47 | 30,5 | 3 | 16 | 27 | 27 | 24 | 14,00 | FI-GS-12S-W3-SKM |
| | .47 | 9135 | .31 | 2.36 | 1.22 | .57 | 1.85 | 1.20 | .12 | .63 | 1.06 | 1.06 | .94 | 30,80 | |
| | 14 | 630 | 10 | 65 | 35 | 17 | 50 | 32 | 3 | 16 | 30 | 30 | 27 | 18,17 | FI-GS-14S-W3-SKM |
| | .55 | 9135 | .39 | 2.56 | 1.38 | .67 | 1.97 | 1.26 | .12 | .63 | 1.18 | 1.18 | 1.06 | 39,97 | |
| | 16 | 630 | 12 | 65 | 35 | 16,5 | 50 | 31,5 | 3 | 16 | 32 | 32 | 30 | 20,12 | FI-GS-16S-W3-SKM |
| | .63 | 9135 | .47 | 2.56 | 1.38 | .65 | 1.97 | 1.24 | .12 | .63 | 1.26 | 1.26 | 1.18 | 44,27 | |
| | 20 | 400 | 16 | 72 | 39 | 17,5 | 55 | 33,5 | 4 | 16 | 41 | 41 | 36 | 34,45 | FI-GS-20S-W3-SKM |
| | .79 | 5800 | .63 | 2.83 | 1.54 | .69 | 2.17 | 1.32 | .16 | .63 | 1.61 | 1.61 | 1.42 | 75,79 | |
| | 25 | 400 | 20 | 79 | 44 | 20 | 59 | 35 | 4 | 16 | 46 | 46 | 46 | 49,56 | FI-GS-25S-W3-SKM |
| | .98 | 5800 | .79 | 3.11 | 1.73 | .79 | 2.32 | 1.38 | .16 | .63 | 1.81 | 1.81 | 1.81 | 109,04 | |
| | 30 | 400 | 25 | 86 | 48 | 21,5 | 64 | 37,5 | 4 | 16 | 50 | 50 | 50 | 64,90 | FI-GS-30S-W3-SKM |
| | 1.18 | 5800 | .98 | 3.39 | 1.89 | .85 | 2.52 | 1.48 | .16 | .63 | 1.97 | 1.97 | 1.97 | 142,78 | |
| 38 | 400 | 32 | 91 | 53 | 22 | 68 | 37 | 4 | 16 | 65 | 65 | 60 | 108,30 | FI-GS-38S-W3-SKM | |
| 1.50 | 5800 | 1.26 | 3.58 | 2.09 | .87 | 2.68 | 1.46 | .16 | .63 | 2.56 | 2.56 | 2.36 | 238,26 | | |

¹ Approximate dimension in assembled condition.
² Weight excluding lock nut, cutting rings and union nuts.
³ Standard scope of delivery: Fitting body with hexagon lock nut.



Elbow Bulkhead Fittings
Type FI-WS • Series L / S



| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | |
|--------|--------------------|-----------------|-----------------------|------|------|------|------|-----------------|------|-----------------|------|-----|-----------|-----------|------|--|-----------------------------|------------------|
| | | | D1 | D2 | L | i1 | i2 | L1 ¹ | L2 | L3 ¹ | L4 | L5 | L7 min | L7 max | S1 | | | S2 |
| L | 6 | 500 | 4 | 17 | 48 | 19 | 27 | 12 | 56 | 14 | 27 | 3 | 16 | 12 | 17 | 14 | 4,88 | FI-WS-06L-W3-SKM |
| | .24 | 7252 | .16 | .67 | 1.89 | .75 | 1.06 | .47 | 2.20 | .55 | 1.06 | .12 | .63 | .47 | .67 | .55 | 10,74 | FI-WS-08L-W3-SKM |
| | 8 | 500 | 6 | 19 | 51 | 21 | 29 | 14 | 59 | 17 | 27 | 3 | 16 | 12 | 19 | 17 | 6,11 | FI-WS-10L-W3-SKM |
| | .31 | 7252 | .24 | .75 | 2.01 | .83 | 1.14 | .55 | 2.32 | .67 | 1.06 | .12 | .63 | .47 | .75 | .67 | 13,43 | FI-WS-12L-W3-SKM |
| | 10 | 500 | 8 | 22 | 53 | 22 | 30 | 15 | 61 | 18 | 28 | 3 | 16 | 14 | 22 | 19 | 7,89 | FI-WS-15L-W3-SKM |
| | .39 | 7252 | .31 | .87 | 2.09 | .87 | 1.18 | .59 | 2.40 | .71 | 1.10 | .12 | .63 | .55 | .87 | .75 | 17,35 | FI-WS-18L-W3-SKM |
| | 12 | 400 | 10 | 24 | 56 | 24 | 32 | 17 | 64 | 20 | 29 | 3 | 16 | 17 | 24 | 22 | 9,65 | FI-WS-22L-W3-SKM |
| | .47 | 5802 | .39 | .94 | 2.20 | .94 | 1.26 | .67 | 2.52 | .79 | 1.14 | .12 | .63 | .67 | .94 | .87 | 21,23 | FI-WS-28L-W3-SKM |
| | 15 | 400 | 12 | 27 | 61 | 28 | 36 | 21 | 69 | 23 | 31 | 3 | 16 | 19 | 30 | 27 | 16,31 | FI-WS-35L-W3-SKM |
| | .59 | 5802 | .47 | 1.06 | 2.40 | 1.10 | 1.42 | .83 | 2.72 | .91 | 1.22 | .12 | .63 | .75 | 1.18 | 1.06 | 35,88 | FI-WS-42L-W3-SKM |
| | 18 | 400 | 15 | 32 | 64 | 31 | 40 | 23,5 | 73 | 24 | 32,5 | 3 | 16 | 24 | 36 | 32 | 23,82 | FI-WS-42L-W3-SKM |
| | .71 | 5802 | .59 | 1.26 | 2.52 | 1.22 | 1.57 | .93 | 2.87 | .94 | 1.28 | .12 | .63 | .94 | 1.42 | 1.26 | 52,40 | FI-WS-22L-W3-SKM |
| | 22 | 250 | 19 | 36 | 72 | 35 | 44 | 27,5 | 81 | 30 | 34,5 | 4 | 16 | 27 | 41 | 36 | 30,41 | FI-WS-28L-W3-SKM |
| | .87 | 3626 | .75 | 1.42 | 2.83 | 1.38 | 1.73 | 1.08 | 3.19 | 1.18 | 1.36 | .16 | .63 | 1.06 | 1.61 | 1.42 | 66,90 | FI-WS-35L-W3-SKM |
| | 28 | 250 | 24 | 42 | 77 | 38 | 47 | 30,5 | 86 | 34 | 35,5 | 4 | 16 | 36 | 46 | 41 | 45,92 | FI-WS-42L-W3-SKM |
| | 1.10 | 3626 | .94 | 1.65 | 3.03 | 1.50 | 1.85 | 1.20 | 3.39 | 1.34 | 1.40 | .16 | .63 | 1.42 | 1.81 | 1.61 | 101,03 | FI-WS-06S-W3-SKM |
| | 35 | 250 | 30 | 50 | 86 | 45 | 56 | 34,5 | 97 | 39 | 36,5 | 4 | 16 | 41 | 55 | 50 | 75,00 | FI-WS-08S-W3-SKM |
| | 1.38 | 3626 | 1.18 | 1.97 | 3.39 | 1.77 | 2.20 | 1.36 | 3.82 | 1.54 | 1.44 | .16 | .63 | 1.61 | 2.17 | 1.97 | 165,00 | FI-WS-10S-W3-SKM |
| 42 | 250 | 36 | 60 | 90 | 51 | 63 | 40 | 102 | 43 | 36 | 4 | 16 | 50 | 65 | 60 | 107,00 | FI-WS-12S-W3-SKM | |
| 1.65 | 3626 | 1.42 | 2.36 | 3.54 | 2.01 | 2.48 | 1.57 | 4.02 | 1.69 | 1.42 | .16 | .63 | 1.97 | 2.56 | 2.36 | 235,40 | FI-WS-14S-W3-SKM | |
| S | 6 | 800 | 4 | 19 | 53 | 23 | 31 | 16 | 61 | 17 | 29 | 3 | 16 | 12 | 19 | 17 | 7,34 | FI-WS-16S-W3-SKM |
| | .24 | 11603 | .16 | .75 | 2.09 | .91 | 1.22 | .63 | 2.40 | .67 | 1.14 | .12 | .63 | .47 | .75 | .67 | 16,15 | FI-WS-20S-W3-SKM |
| | 8 | 800 | 5 | 22 | 54 | 24 | 32 | 17 | 62 | 18 | 29 | 3 | 16 | 14 | 22 | 19 | 10,16 | FI-WS-25S-W3-SKM |
| | .31 | 11603 | .20 | .87 | 2.13 | .94 | 1.26 | .67 | 2.44 | .71 | 1.14 | .12 | .63 | .55 | .87 | .75 | 22,35 | FI-WS-30S-W3-SKM |
| | 10 | 800 | 7 | 24 | 57 | 25 | 34 | 17,5 | 66 | 20 | 29,5 | 3 | 16 | 17 | 24 | 22 | 12,59 | FI-WS-38S-W3-SKM |
| | .39 | 11603 | .28 | .94 | 2.24 | .98 | 1.34 | .69 | 2.60 | .79 | 1.16 | .12 | .63 | .67 | .94 | .87 | 27,71 | FI-WS-12S-W3-SKM |
| | 12 | 630 | 8 | 27 | 59 | 29 | 38 | 21,5 | 68 | 21 | 30,5 | 3 | 16 | 17 | 27 | 24 | 16,05 | FI-WS-14S-W3-SKM |
| | .47 | 9137 | .31 | 1.06 | 2.32 | 1.14 | 1.50 | .85 | 2.68 | .83 | 1.20 | .12 | .63 | .67 | 1.06 | .94 | 35,30 | FI-WS-16S-W3-SKM |
| | 14 | 630 | 10 | 27 | 63 | 30 | 40 | 22 | 73 | 23 | 32 | 3 | 16 | 19 | 30 | 27 | 19,62 | FI-WS-20S-W3-SKM |
| | .55 | 9137 | .39 | 1.06 | 2.48 | 1.18 | 1.57 | .87 | 2.87 | .91 | 1.26 | .12 | .63 | .75 | 1.18 | 1.06 | 43,17 | FI-WS-25S-W3-SKM |
| | 16 | 630 | 12 | 30 | 64 | 33 | 43 | 24,5 | 74 | 24 | 31,5 | 3 | 16 | 24 | 32 | 30 | 24,14 | FI-WS-30S-W3-SKM |
| | .63 | 9137 | .47 | 1.18 | 2.52 | 1.30 | 1.69 | .96 | 2.91 | .94 | 1.24 | .12 | .63 | .94 | 1.26 | 1.18 | 53,10 | FI-WS-38S-W3-SKM |
| | 20 | 400 | 16 | 36 | 74 | 37 | 48 | 26,5 | 85 | 30 | 33,5 | 4 | 16 | 27 | 41 | 36 | 38,01 | FI-WS-25S-W3-SKM |
| | .79 | 5802 | .63 | 1.42 | 2.91 | 1.46 | 1.89 | 1.04 | 3.35 | 1.18 | 1.32 | .16 | .63 | 1.06 | 1.61 | 1.42 | 83,63 | FI-WS-30S-W3-SKM |
| | 25 | 400 | 20 | 42 | 81 | 42 | 54 | 30 | 93 | 34 | 35 | 4 | 16 | 36 | 46 | 46 | 61,10 | FI-WS-38S-W3-SKM |
| | .98 | 5802 | .79 | 1.65 | 3.19 | 1.65 | 2.13 | 1.18 | 3.66 | 1.34 | 1.38 | .16 | .63 | 1.42 | 1.81 | 1.81 | 134,42 | FI-WS-30S-W3-SKM |
| | 30 | 400 | 25 | 50 | 90 | 49 | 62 | 35,5 | 103 | 39 | 37,5 | 4 | 16 | 41 | 50 | 50 | 91,00 | FI-WS-38S-W3-SKM |
| | 1.18 | 5802 | .98 | 1.97 | 3.54 | 1.93 | 2.44 | 1.40 | 4.06 | 1.54 | 1.48 | .16 | .63 | 1.61 | 1.97 | 1.97 | 200,20 | FI-WS-38S-W3-SKM |
| 38 | 400 | 32 | 60 | 96 | 57 | 72 | 41 | 112 | 43 | 37 | 4 | 16 | 50 | 65 | 60 | 138,90 | FI-WS-38S-W3-SKM | |
| 1.50 | 5802 | 1.26 | 2.36 | 3.78 | 2.24 | 2.83 | 1.61 | 4.41 | 1.69 | 1.46 | .16 | .63 | 1.97 | 2.56 | 2.36 | 305,58 | | |

¹ Approximate dimension in assembled condition.
² Weight excluding cutting rings and union nuts.
³ Standard scope of delivery: Fitting body only.

Ordering Codes

FI-WS-10*L*-W3*-MS

| | |
|---|---|
| * Elbow Bulkhead Fitting | FI-WS |
| * Outside Tube Diameter D1 (in mm) | -10 |
| * Series | Light Series L Heavy Series S |
| * Material Code | Steel, zinc/nickel-plated -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | |
| * Assembling / Kitting | Fitting body only — |
| | Fitting body supplied with hexagon lock nut -SKM |
| | Fitting body supplied with cutting rings and union nuts -MS |
| | Fitting body supplied with soft-sealing cutting rings and union nuts -MSV |

Connecting Parts

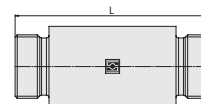
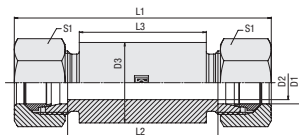
| | | |
|--|---|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

Spare Parts / Accessories

| | | |
|--|---------------------------------|----------|
| | Hexagon Lock Nut Type FI-SKM | Page 205 |
|--|---------------------------------|----------|



Straight Bulkhead Weld Fitting Type FI-ES • Series L / S



Ordering Codes

FI-ES-10*L*-W159*-MS

- * Straight Bulkhead Weld Fitting **FI-ES**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
 Light Series
 Heavy Series **S**
- * Material Code **-W2**
 Steel, phosphated
 Fitting body:
 Steel, phosphated **-W159**
 Connecting parts:
 Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
 Fitting body only
 Fitting body supplied with cutting rings and union nuts **-MS**
 Fitting body supplied with soft-sealing cutting rings and union nuts **-MSV**

Connecting Parts

-  Cutting Ring
Type **FI-DS** Page 26
-  Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
-  Support Sleeve
Type **FI-VH** Page 28
-  STAUFF Form Ring
Type **FI-AR** Page 30
-  Union Nut
Type **FI-M** Page 31
-  37° Flared Tube Fitting Set
Type **FI-AB** Page 35

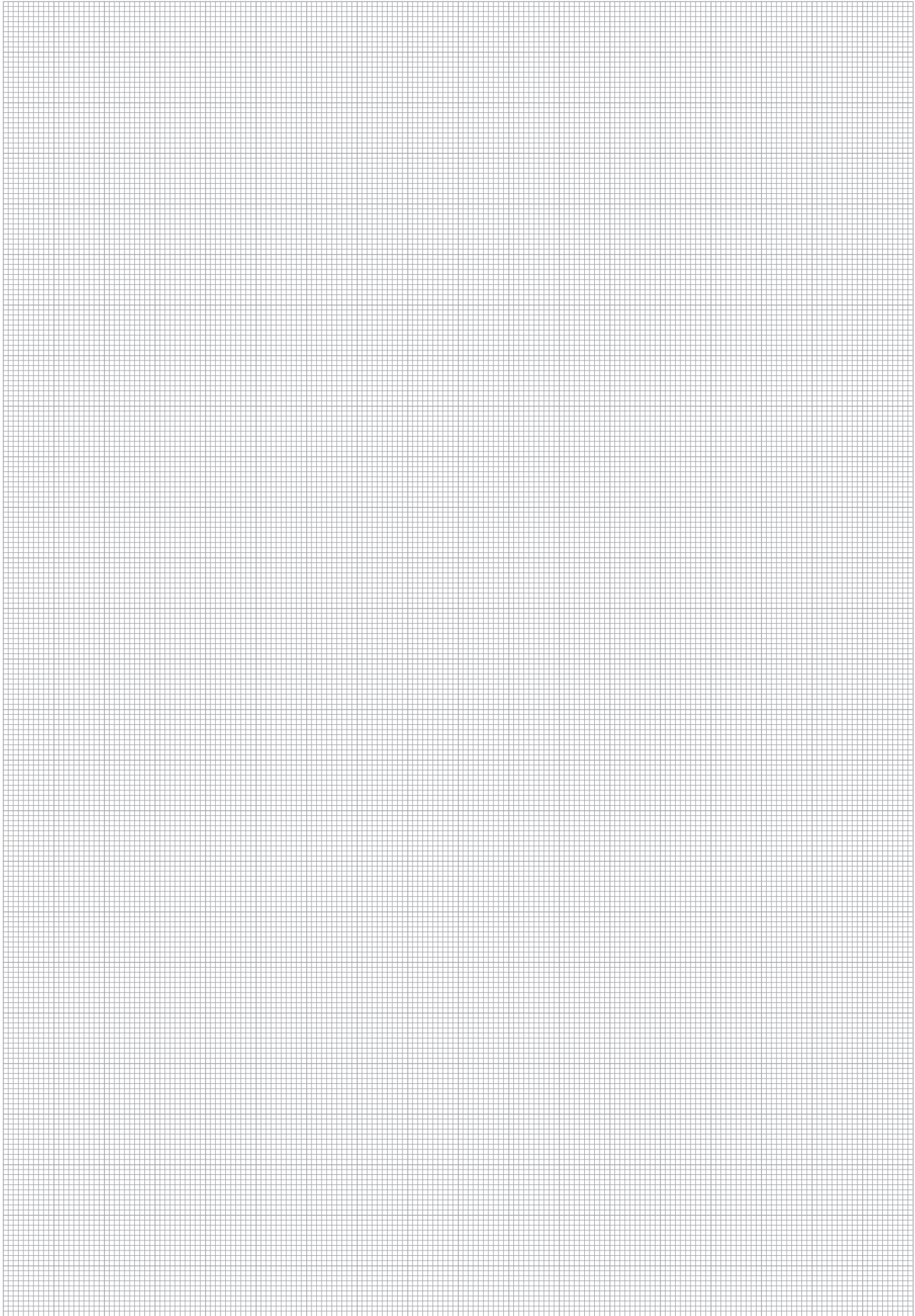
| Series | Tube OD | PN | Dimensions | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|---------------|-------|---------------|---------------|------|-----------------|------|------|--------|--|-----------------------------|
| | (mm/in) D1 | | (mm/in) D2 | (mm/in) D3 | L | L1 ¹ | L2 | L3 | S1 | | |
| L | 6 | 500 | 4 | 18 | 70 | 85 | 56 | 50 | 14 | 10,33 | FI-ES-06L-W2 |
| | .24 | 7252 | .16 | .71 | 2.76 | 3.35 | 2.20 | 1.97 | .55 | 22.73 | |
| | 8 | 500 | 6 | 20 | 70 | 85 | 56 | 50 | 17 | 12,21 | FI-ES-08L-W2 |
| | .31 | 7252 | .24 | .79 | 2.76 | 3.35 | 2.20 | 1.97 | .67 | 26.87 | |
| | 10 | 500 | 8 | 22 | 72 | 87 | 58 | 50 | 19 | 14,30 | FI-ES-10L-W2 |
| | .39 | 7252 | .31 | .87 | 2.83 | 3.43 | 2.28 | 1.97 | .75 | 31.46 | |
| | 12 | 400 | 10 | 25 | 72 | 87 | 58 | 50 | 22 | 17,75 | FI-ES-12L-W2 |
| | .47 | 5802 | .39 | .98 | 2.83 | 3.43 | 2.28 | 1.97 | .87 | 39.05 | |
| | 15 | 400 | 12 | 28 | 84 | 100 | 70 | 60 | 27 | 26,69 | FI-ES-15L-W2 |
| | .59 | 5802 | .47 | 1.10 | 3.31 | 3.94 | 2.76 | 2.36 | 1.06 | 58.73 | |
| | 18 | 400 | 15 | 32 | 84 | 101 | 69 | 60 | 32 | 33,60 | FI-ES-18L-W2 |
| | .71 | 5802 | .59 | 1.26 | 3.31 | 3.98 | 2.72 | 2.36 | 1.26 | 73.92 | |
| | 22 | 250 | 19 | 36 | 88 | 105 | 73 | 60 | 36 | 39,92 | FI-ES-22L-W2 |
| | .87 | 3626 | .75 | 1.42 | 3.46 | 4.13 | 2.87 | 2.36 | 1.42 | 87.83 | |
| | 28 | 250 | 24 | 40 | 88 | 106 | 73 | 60 | 41 | 45,18 | FI-ES-28L-W2 |
| | 1.10 | 3626 | .94 | 1.57 | 3.46 | 4.17 | 2.87 | 2.36 | 1.61 | 99.40 | |
| | 35 | 250 | 30 | 50 | 92 | 114 | 71 | 60 | 50 | 72,80 | FI-ES-35L-W2 |
| | 1.38 | 3626 | 1.18 | 1.97 | 3.62 | 4.49 | 2.80 | 2.36 | 1.97 | 160.16 | |
| | 42 | 250 | 36 | 60 | 92 | 115 | 70 | 60 | 60 | 100,60 | FI-ES-42L-W2 |
| | 1.65 | 3626 | 1.42 | 2.36 | 3.62 | 4.53 | 2.76 | 2.36 | 2.36 | 221.32 | |
| S | 6 | 800 | 4 | 20 | 74 | 89 | 60 | 50 | 17 | 13,56 | FI-ES-06S-W2 |
| | .24 | 11603 | .16 | .79 | 2.91 | 3.50 | 2.36 | 1.97 | .67 | 29.83 | |
| | 8 | 800 | 5 | 22 | 74 | 89 | 60 | 50 | 19 | 16,35 | FI-ES-08S-W2 |
| | .31 | 11603 | .20 | .87 | 2.91 | 3.50 | 2.36 | 1.97 | .75 | 35.96 | |
| | 10 | 800 | 7 | 25 | 74 | 91 | 59 | 50 | 22 | 20,24 | FI-ES-10S-W2 |
| | .39 | 11603 | .28 | .98 | 2.91 | 3.58 | 2.32 | 1.97 | .87 | 44.52 | |
| | 12 | 630 | 8 | 28 | 74 | 91 | 59 | 50 | 24 | 25,17 | FI-ES-12S-W2 |
| | .47 | 9137 | .31 | 1.10 | 2.91 | 3.58 | 2.32 | 1.97 | .94 | 55.38 | |
| | 14 | 630 | 10 | 30 | 88 | 107 | 72 | 60 | 27 | 33,72 | FI-ES-14S-W2 |
| | .55 | 9137 | .39 | 1.18 | 3.46 | 4.21 | 2.83 | 2.36 | 1.06 | 74.18 | |
| | 16 | 630 | 12 | 35 | 88 | 107 | 71 | 60 | 30 | 44,42 | FI-ES-16S-W2 |
| | .63 | 9137 | .47 | 1.38 | 3.46 | 4.21 | 2.80 | 2.36 | 1.18 | 97.72 | |
| | 20 | 400 | 16 | 38 | 92 | 114 | 71 | 60 | 36 | 51,50 | FI-ES-20S-W2 |
| | .79 | 5802 | .63 | 1.50 | 3.62 | 4.49 | 2.80 | 2.36 | 1.42 | 113.30 | |
| | 25 | 400 | 20 | 45 | 96 | 120 | 72 | 60 | 46 | 72,50 | FI-ES-25S-W2 |
| | .98 | 5802 | .79 | 1.77 | 3.78 | 4.72 | 2.83 | 2.36 | 1.81 | 159.50 | |
| | 30 | 400 | 25 | 50 | 100 | 126 | 73 | 60 | 50 | 87,80 | FI-ES-30S-W2 |
| | 1.18 | 5802 | .98 | 1.97 | 3.94 | 4.96 | 2.87 | 2.36 | 1.97 | 193.16 | |
| 38 | 400 | 32 | 60 | 104 | 133 | 72 | 60 | 60 | 125,30 | FI-ES-38S-W2 | |
| 1.50 | 5802 | 1.26 | 2.36 | 4.09 | 5.24 | 2.83 | 2.36 | 2.36 | 275.66 | | |

¹ Approximate dimension in assembled condition.





² Weight excluding cutting rings and union nuts.

³ Standard scope of delivery: Fitting body only.



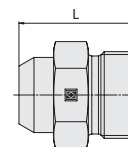
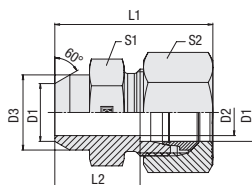




| | | |
|---|--|-----|
|  | Straight Weld Fitting FI-AS | 98 |
|  | Elbow Weld Fitting FI-WAS | 99 |
|  | 24° Weld Cone with O-Ring FI-SN | 100 |
|  | 24° Weld Cone Reducer with O-Ring FI-SNR | 102 |
|  | Straight Weld Fitting for Tubes FI-ASV | 104 |



Straight Weld Fitting
Type FI-AS • Series L / S



Ordering Codes

***FI-AS*-10*L*-W159*-MS**

- * Straight Weld Fitting **FI-AS**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
Light Series
S
Heavy Series
- * Material Code **-W2**
Steel, phosphated
- Fitting body:
Steel, phosphated **-W159**
Connecting parts:
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
Fitting body only
- Fitting body supplied with cutting ring and union nut **-MS**
- Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

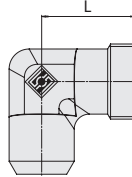
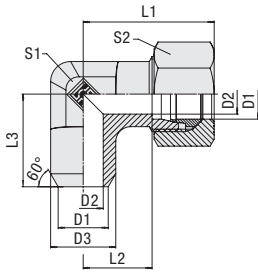
| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|------|------|----------------|------|-------|--------------|--|-----------------------------|
| | | | D1 | D2 | D3 | L | L ¹ | L2 | S1 | S2 | | |
| L | 6 | 500 | 4 | 10 | 21 | 29 | 14 | 12 | 14 | 1.06 | FI-AS-06L-W2 | |
| | .24 | 7252 | .16 | .39 | .83 | 1.14 | .55 | .47 | .55 | 2.33 | FI-AS-08L-W2 | |
| | 8 | 500 | 6 | 12 | 23 | 31 | 16 | 14 | 17 | 1.52 | FI-AS-08L-W2 | |
| | .31 | 7252 | .24 | .47 | .91 | 1.22 | .63 | .55 | .67 | 3.35 | FI-AS-10L-W2 | |
| | 10 | 500 | 8 | 14 | 25 | 33 | 18 | 17 | 19 | 2.20 | FI-AS-10L-W2 | |
| | .39 | 7252 | .31 | .55 | .98 | 1.30 | .71 | .67 | .75 | 4.83 | FI-AS-12L-W2 | |
| | 12 | 400 | 10 | 16 | 25 | 33 | 18 | 19 | 22 | 2.57 | FI-AS-12L-W2 | |
| | .47 | 5802 | .39 | .63 | .98 | 1.30 | .71 | .75 | .87 | 5.66 | FI-AS-15L-W2 | |
| | 15 | 400 | 12 | 19 | 29 | 37 | 22 | 22 | 27 | 4.37 | FI-AS-15L-W2 | |
| | .59 | 5802 | .47 | .75 | 1.14 | 1.46 | .87 | .87 | 1.06 | 9.62 | FI-AS-18L-W2 | |
| | 18 | 400 | 15 | 22 | 31 | 40 | 23.5 | 27 | 32 | 6.70 | FI-AS-18L-W2 | |
| | .71 | 5802 | .59 | .87 | 1.22 | 1.57 | .93 | 1.06 | 1.26 | 14.75 | FI-AS-22L-W2 | |
| | 22 | 250 | 19 | 27 | 36 | 45 | 28.5 | 32 | 36 | 9.87 | FI-AS-22L-W2 | |
| | .87 | 3626 | .75 | 1.06 | 1.42 | 1.77 | 1.12 | 1.26 | 1.42 | 21.72 | FI-AS-28L-W2 | |
| | 28 | 250 | 24 | 32 | 38 | 47 | 30.5 | 41 | 41 | 16.10 | FI-AS-28L-W2 | |
| | 1.10 | 3626 | .94 | 1.26 | 1.50 | 1.85 | 1.20 | 1.61 | 1.61 | 35.42 | FI-AS-35L-W2 | |
| | 35 | 250 | 30 | 40 | 43 | 54 | 32.5 | 46 | 50 | 23.43 | FI-AS-35L-W2 | |
| | 1.38 | 3626 | 1.18 | 1.57 | 1.69 | 2.13 | 1.28 | 1.81 | 1.97 | 51.55 | FI-AS-42L-W2 | |
| | 42 | 250 | 36 | 46 | 46 | 58 | 35 | 55 | 60 | 32.82 | FI-AS-42L-W2 | |
| | 1.65 | 3626 | 1.42 | 1.81 | 1.81 | 2.28 | 1.38 | 2.17 | 2.36 | 72.21 | FI-AS-06S-W2 | |
| S | 6 | 800 | 4 | 11 | 26 | 34 | 19 | 14 | 17 | 2.06 | FI-AS-06S-W2 | |
| | .24 | 11603 | .16 | .43 | 1.02 | 1.34 | .75 | .55 | .67 | 4.53 | FI-AS-08S-W2 | |
| | 8 | 800 | 5 | 13 | 28 | 36 | 21 | 17 | 19 | 3.12 | FI-AS-08S-W2 | |
| | .31 | 11603 | .20 | .51 | 1.10 | 1.42 | .83 | .67 | .75 | 6.87 | FI-AS-10S-W2 | |
| | 10 | 800 | 7 | 15 | 30 | 39 | 22.5 | 19 | 22 | 4.12 | FI-AS-10S-W2 | |
| | .39 | 11603 | .28 | .59 | 1.18 | 1.54 | .89 | .75 | .87 | 9.06 | FI-AS-12S-W2 | |
| | 12 | 630 | 8 | 17 | 32 | 41 | 24.5 | 22 | 24 | 4.80 | FI-AS-12S-W2 | |
| | .47 | 9137 | .31 | .67 | 1.26 | 1.61 | .96 | .87 | .94 | 10.56 | FI-AS-14S-W2 | |
| | 14 | 630 | 10 | 19 | 35 | 45 | 27 | 24 | 27 | 7.11 | FI-AS-14S-W2 | |
| | .55 | 9137 | .39 | .75 | 1.38 | 1.77 | 1.06 | .94 | 1.06 | 15.64 | FI-AS-16S-W2 | |
| | 16 | 630 | 12 | 21 | 35 | 45 | 26.5 | 27 | 30 | 8.36 | FI-AS-16S-W2 | |
| | .63 | 9137 | .47 | .83 | 1.38 | 1.77 | 1.04 | 1.06 | 1.18 | 18.38 | FI-AS-20S-W2 | |
| | 20 | 400 | 16 | 26 | 40 | 51 | 29.5 | 32 | 36 | 13.01 | FI-AS-20S-W2 | |
| | .79 | 5802 | .63 | 1.02 | 1.57 | 2.01 | 1.16 | 1.26 | 1.42 | 28.61 | FI-AS-25S-W2 | |
| | 25 | 400 | 20 | 31 | 44 | 56 | 32 | 41 | 46 | 22.16 | FI-AS-25S-W2 | |
| | .98 | 5802 | .79 | 1.22 | 1.73 | 2.20 | 1.26 | 1.61 | 1.81 | 48.75 | FI-AS-30S-W2 | |
| | 30 | 400 | 25 | 36 | 49 | 62 | 35.5 | 46 | 50 | 23.12 | FI-AS-30S-W2 | |
| | 1.18 | 5802 | .98 | 1.42 | 1.93 | 2.44 | 1.40 | 1.81 | 1.97 | 50.86 | FI-AS-38S-W2 | |
| 38 | 400 | 32 | 44 | 54 | 69 | 38 | 55 | 60 | 45.26 | FI-AS-38S-W2 | | |
| 1.50 | 5802 | 1.26 | 1.73 | 2.13 | 2.72 | 1.50 | 2.17 | 2.36 | 99.57 | | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.



**Elbow Weld Fitting
Type FI-WAS • Series L / S**


| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|------|------|-----------------|------|------|--------|--|-----------------------------|
| | | | D1 | D2 | D3 | L | L1 ¹ | L2 | L3 | S1 | | |
| L | 6 | 315 | 4 | 10 | 19 | 28 | 12 | 19 | 12 | 14 | 23 | FI-WAS-06L-W2 |
| | .24 | 4568 | .16 | .39 | .75 | 1.10 | .47 | .75 | .47 | .55 | 50.71 | |
| | 8 | 315 | 6 | 12 | 21 | 29 | 14 | 23 | 12 | 17 | 2,56 | FI-WAS-08L-W2 |
| | .31 | 4568 | .24 | .47 | .83 | 1.14 | .55 | .91 | .47 | .67 | 5.64 | |
| | 10 | 315 | 8 | 14 | 22 | 30 | 15 | 24 | 14 | 19 | 3,34 | FI-WAS-10L-W2 |
| | .39 | 4568 | .31 | .55 | .87 | 1.18 | .59 | .94 | .55 | .75 | 7.34 | |
| | 12 | 315 | 10 | 16 | 24 | 32 | 17 | 25 | 17 | 22 | 4,52 | FI-WAS-12L-W2 |
| | .47 | 4568 | .39 | .63 | .94 | 1.26 | .67 | .98 | .67 | .87 | 9.94 | |
| | 15 | 315 | 12 | 19 | 28 | 36 | 21 | 30 | 19 | 27 | 7,88 | FI-WAS-15L-W2 |
| | .59 | 4568 | .47 | .75 | 1.10 | 1.42 | .83 | 1.18 | .75 | 1.06 | 17.34 | |
| | 18 | 315 | 15 | 22 | 31 | 40 | 23,5 | 33 | 24 | 32 | 11,53 | FI-WAS-18L-W2 |
| | .71 | 4568 | .59 | .87 | 1.22 | 1.57 | .93 | 1.30 | .94 | 1.26 | 25.37 | |
| | 22 | 160 | 19 | 27 | 35 | 44 | 27,5 | 37 | 27 | 36 | 16,10 | FI-WAS-22L-W2 |
| | .87 | 2320 | .75 | 1.06 | 1.38 | 1.73 | 1.08 | 1.46 | 1.06 | 1.42 | 35.41 | |
| | 28 | 160 | 24 | 32 | 38 | 47 | 30,5 | 42 | 36 | 41 | 5,99 | FI-WAS-28L-W2 |
| | 1.10 | 2320 | .94 | 1.26 | 1.50 | 1.85 | 1.20 | 1.65 | 1.42 | 1.61 | 13.17 | |
| | 35 | 160 | 30 | 40 | 45 | 56 | 34,5 | 49 | 41 | 50 | 42,27 | FI-WAS-35L-W2 |
| | 1.38 | 2320 | 1.18 | 1.57 | 1.77 | 2.20 | 1.36 | 1.93 | 1.61 | 1.97 | 92.99 | |
| 42 | 160 | 36 | 46 | 51 | 63 | 40 | 57 | 50 | 60 | 65,80 | FI-WAS-42L-W2 | |
| 1.65 | 2320 | 1.42 | 1.81 | 2.01 | 2.48 | 1.57 | 2.24 | 1.97 | 2.36 | 144.76 | | |
| S | 6 | 400 | 4 | 11 | 23 | 30 | 16 | 23 | 12 | 17 | 30,96 | FI-WAS-06S-W2 |
| | .24 | 5800 | .16 | .43 | .93 | 1.18 | .63 | .91 | .47 | .67 | 68.26 | |
| | 8 | 400 | 5 | 13 | 24 | 31 | 17 | 24 | 14 | 19 | 43,75 | FI-WAS-08S-W2 |
| | .31 | 5800 | .20 | .51 | .94 | 1.22 | .67 | .94 | .55 | .75 | 96.45 | |
| | 10 | 400 | 7 | 15 | 25 | 33 | 17,5 | 25 | 17 | 22 | 56,74 | FI-WAS-10S-W2 |
| | .39 | 5800 | .28 | .59 | .98 | 1.30 | .69 | .98 | .67 | .87 | 125.10 | |
| | 12 | 400 | 8 | 17 | 29 | 38 | 21,5 | 29 | 17 | 24 | 8,03 | FI-WAS-12S-W2 |
| | .47 | 5800 | .31 | .67 | 1.14 | 1.50 | .85 | 1.14 | .67 | .94 | 17.67 | |
| | 16 | 400 | 12 | 21 | 33 | 43 | 24,5 | 33 | 24 | 30 | 13,89 | FI-WAS-16S-W2 |
| | .63 | 5800 | .47 | .83 | 1.30 | 1.69 | .96 | 1.30 | .94 | 1.18 | 30.56 | |
| | 20 | 400 | 16 | 26 | 37 | 48 | 26,5 | 37 | 27 | 36 | 20,24 | FI-WAS-20S-W2 |
| | .79 | 5800 | .63 | 1.02 | 1.46 | 1.89 | 1.04 | 1.46 | 1.06 | 1.42 | 44.54 | |
| | 25 | 400 | 20 | 31 | 42 | 54 | 30 | 42 | 36 | 46 | 35,01 | FI-WAS-25S-W2 |
| | .98 | 5800 | .79 | 1.22 | 1.65 | 2.13 | 1.18 | 1.65 | 1.42 | 1.81 | 77.03 | |
| | 30 | 400 | 25 | 36 | 49 | 62 | 35,5 | 49 | 41 | 50 | 53,00 | FI-WAS-30S-W2 |
| 1.18 | 5800 | .98 | 1.42 | 1.93 | 2.44 | 1.40 | 1.93 | 1.61 | 1.97 | 116.60 | | |
| 38 | 315 | 32 | 44 | 57 | 72 | 41 | 57 | 50 | 60 | 83,70 | FI-WAS-38S-W2 | |
| 1.50 | 4568 | 1.26 | 1.73 | 2.24 | 2.83 | 1.61 | 2.24 | 1.97 | 2.36 | 184.14 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Ordering Codes
***FI-WAS*-10*L*-W159*-MS**

| | | |
|------------------------------------|--|---------------|
| * Elbow Weld Fitting | | FI-WAS |
| * Outside Tube Diameter D1 (in mm) | | -10 |
| * Series | Light Series | L |
| | Heavy Series | S |
| * Material Code | Steel, phosphated | -W2 |
| | Fitting body: Steel, phosphated | -W159 |
| | Connecting parts: Steel, zinc/nickel-plated | |

Please contact STAUFF for alternative materials and surface finishings.

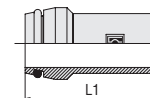
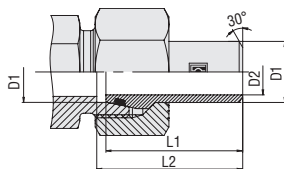
| | | |
|------------------------|--|-------------|
| * Assembling / Kitting | Fitting body only | — |
| | Fitting body supplied with cutting ring and union nut | -MS |
| | Fitting body supplied with soft-sealing cutting ring and union nut | -MSV |

Connecting Parts

| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |



24° Weld Cone with O-Ring Type FI-SN • Series L / S



Ordering Codes

FI-SN-10x1.5*-B*-W161

- * 24° Weld Cone with O-Ring FI-SN
- * Outside Tube Diameter (in mm) -10
- * Wall Thickness (in mm) x1.5
- * Seal Material -B
 NBR (Buna-N®)
 FKM (Viton®)
 EPDM -E
- * Material Code -W2
 Steel, phosphated

Please contact STAUFF for alternative materials and surface finishings.

FI-SN-10*L*x1.5*-B*-W159*-M

- * 24° Weld Cone with O-Ring FI-SN
- * Outside Tube Diameter (in mm) -10
- * Series L
 Light Series (page 100)
 Heavy Series (pages 100/101) S
- * Wall Thickness (in mm) x1.5
- * Seal Material -B
 NBR (Buna-N®)
 FKM (Viton®)
 EPDM -E
- * Material Code -W159
 Weld cone:
 Steel, phosphated
 Union nut:
 Steel, zinc/nickel-plated

Please contact STAUFF for alternative materials and surface finishings.

- * Assembling / Kitting -M
 24° weld cone with O-ring
 supplied with union nut

| Series | Tube OD | | PN (^{bar} /psi) | Dimensions | | | Weight (^{kg} /lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|------------|------------|------------------------------|------------|------|-------|---|-----------------------------|
| | D1 | for Tube | | D2 | L1 | L2 | | |
| L/S | 6 | 6 x 1,5 | 400 | 3 | 31 | 32 | 0,70 | FI-SN-06x1.5-B-W2 |
| | .24 | .24 x .06 | 5800 | .12 | 1.22 | 1.26 | 1.54 | |
| | 8 | 8 x 1,5 | 315 | 5 | 31 | 32 | 0,90 | FI-SN-08x1.5-B-W2 |
| | .31 | .31 x .06 | 4568 | .20 | 1.22 | 1.26 | 1.98 | |
| | 8 | 8 x 2 | 400 | 4 | 31 | 32 | 1,10 | FI-SN-08x2-B-W2 |
| | .31 | .31 x .08 | 5800 | .16 | 1.22 | 1.26 | 2.42 | |
| | 10 | 10 x 1,5 | 250 | 7 | 32,5 | 33,5 | 1,30 | FI-SN-10x1.5-B-W2 |
| | .39 | .39 x .06 | 3625 | .28 | 1.28 | 1.32 | 2.86 | |
| | 10 | 10 x 2 | 315 | 6 | 32,5 | 33,5 | 1,60 | FI-SN-10x2-B-W2 |
| | .39 | .39 x .08 | 4568 | .24 | 1.28 | 1.32 | 3.52 | |
| | 10 | 10 x 2,5 | 400 | 5 | 32,5 | 33,5 | 1,80 | FI-SN-10x2.5-B-W2 |
| | .39 | .39 x .10 | 5800 | .20 | 1.28 | 1.32 | 3.96 | |
| | 12 | 12 x 1,5 | 160 | 9 | 32,5 | 33,5 | 1,60 | FI-SN-12x1.5-B-W2 |
| | .47 | .47 x .06 | 2320 | .35 | 1.28 | 1.32 | 3.52 | |
| | 12 | 12 x 2 | 250 | 8 | 32,5 | 33,5 | 1,90 | FI-SN-12x2-B-W2 |
| | .47 | .47 x .08 | 3625 | .31 | 1.28 | 1.32 | 4.18 | |
| 12 | 12 x 2,5 | 315 | 7 | 32,5 | 33,5 | 2,20 | FI-SN-12x2.5-B-W2 | |
| .47 | .47 x .10 | 4568 | .28 | 1.28 | 1.32 | 4.84 | | |
| L | 15 | 15 x 2 | 250 | 11 | 35 | 36 | 2,70 | FI-SN-15x2-B-W2 |
| | .59 | .59 x .08 | 3625 | .43 | 1.38 | 1.42 | 5.93 | |
| | 15 | 15 x 2,5 | 315 | 10 | 35 | 36 | 3,00 | FI-SN-15x2.5-B-W2 |
| | .59 | .59 x .10 | 4568 | .39 | 1.38 | 1.42 | 6.60 | |
| | 18 | 18 x 2 | 160 | 14 | 36 | 37 | 3,76 | FI-SN-18x2-B-W2 |
| | .71 | .71 x .08 | 2320 | .55 | 1.42 | 1.46 | 8.27 | |
| | 22 | 22 x 2,5 | 160 | 17 | 38,5 | 39,5 | 5,21 | FI-SN-22x2.5-B-W2 |
| | .87 | .87 x .10 | 2320 | .67 | 1.52 | 1.56 | 11.45 | |
| | 28 | 28 x 2,5 | 100 | 23 | 41,5 | 42,5 | 7,27 | FI-SN-28x2.5-B-W2 |
| | 1.10 | 1.10 x .10 | 1450 | .91 | 1.63 | 1.67 | 15.99 | |
| | 28 | 28 x 3 | 160 | 22 | 41,5 | 42,5 | 8,34 | FI-SN-28x3-B-W2 |
| | 1.10 | 1.1 x .12 | 2320 | .87 | 1.63 | 1.67 | 18.34 | |
| | 35 | 35 x 3 | 100 | 29 | 47 | 49,5 | 12,62 | FI-SN-35x3-B-W2 |
| | 1.38 | 1.38 x .12 | 1450 | 1.14 | 1.85 | 1.95 | 27.76 | |
| | 35 | 35 x 4 | 160 | 27 | 47 | 49,5 | 15,59 | FI-SN-35x4-B-W2 |
| | 1.38 | 1.38 x .16 | 2320 | 1.06 | 1.85 | 1.95 | 34.30 | |
| | 42 | 42 x 3 | 100 | 36 | 47 | 50 | 15,13 | FI-SN-42x3-B-W2 |
| | 1.65 | 1.65 x .12 | 1450 | 1.42 | 1.85 | 1.97 | 33.29 | |
| 42 | 42 x 4 | 160 | 34 | 47 | 50 | 19,10 | FI-SN-42x4-B-W2 | |
| 1.65 | 1.65 x .16 | 2320 | 1.34 | 1.85 | 1.97 | 42.02 | | |

Connecting Parts



Union Nut
Type FI-M

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Spare Parts / Accessories



O-Ring
Type O-RING

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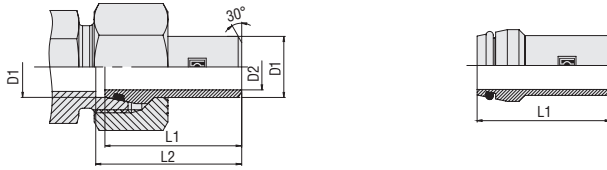
¹ Approximate dimension in assembled condition.

² Weight excluding union nut.

³ Standard scope of delivery: 24° weld cone and O-ring.

Standard seal material is NBR (Buna-N®).



**24° Weld Cone with O-Ring
Type SN • Series S**


| Series | Tube OD | | PN (bar/psi) | Dimensions | | | Weight (*9/10s) ca. per 100 ² | Ordering Codes ³ |
|--------|---------------|------------|-----------------|---------------|------|-------|--|-----------------------------|
| | D1 (mm/in) | for Tube | | D2 (mm/in) | L1 | L2 | | |
| S | 14 | 14 x 2,5 | 315 | 9 | 38,5 | 39,5 | 3,17 | FI-SN-14x2.5-B-W2 |
| | .55 | .55 x .10 | 4568 | .35 | 1.52 | 1.56 | 6.98 | |
| | 14 | 14 x 3 | 400 | 8 | 38,5 | 39,5 | 3,56 | FI-SN-14x3-B-W2 |
| | .55 | .55 x .12 | 5800 | .31 | 1.52 | 1.56 | 7.83 | |
| | 16 | 16 x 2 | 250 | 12 | 39 | 41 | 3,29 | FI-SN-16x2-B-W2 |
| | .63 | .63 x .08 | 3625 | .47 | 1.54 | 1.61 | 7.24 | FI-SN-16x2.5-B-W2 |
| | 16 | 16 x 2,5 | 315 | 11 | 39 | 41 | 3,81 | |
| | .63 | .63 x .10 | 4568 | .43 | 1.54 | 1.61 | 8.38 | FI-SN-16x3-B-W2 |
| | 16 | 16 x 3 | 400 | 10 | 39 | 41 | 4,23 | |
| | .63 | .63 x .12 | 5800 | .39 | 1.54 | 1.61 | 9.31 | FI-SN-20x2-B-W2 |
| | 20 | 20 x 2 | 160 | 16 | 44,5 | 47 | 4,77 | |
| | .79 | .79 x .08 | 2320 | .63 | 1.75 | 1.85 | 10.50 | FI-SN-20x2.5-B-W2 |
| | 20 | 20 x 2,5 | 250 | 15 | 44,5 | 47 | 5,48 | |
| | .79 | .79 x .10 | 3625 | .59 | 1.75 | 1.85 | 12.05 | FI-SN-20x3-B-W2 |
| | 20 | 20 x 3 | 315 | 14 | 44,5 | 47 | 6,39 | |
| | .79 | .79 x .12 | 4568 | .55 | 1.75 | 1.85 | 14.05 | FI-SN-20x4-B-W2 |
| | 20 | 20 x 4 | 400 | 12 | 44,5 | 47 | 7,73 | |
| | .79 | .79 x .16 | 5800 | .47 | 1.75 | 1.85 | 17.01 | FI-SN-25x3-B-W2 |
| | 25 | 25 x 3 | 250 | 19 | 49,5 | 53,5 | 9,00 | |
| | .98 | .98 x .12 | 3625 | .75 | 1.95 | 2.11 | 19.80 | FI-SN-25x4-B-W2 |
| | 25 | 25 x 4 | 315 | 17 | 49,5 | 53,5 | 10,89 | |
| | .98 | .98 x .16 | 4568 | .67 | 1.95 | 2.11 | 23.97 | FI-SN-25x5-B-W2 |
| | 25 | 25 x 5 | 400 | 15 | 49,5 | 53,5 | 12,90 | |
| | .98 | .98 x .20 | 5800 | .59 | 1.95 | 2.11 | 28.38 | FI-SN-30x3-B-W2 |
| | 30 | 30 x 3 | 160 | 24 | 52 | 57,5 | 11,55 | |
| | 1.18 | 1.18 x .12 | 2320 | .94 | 2.05 | 2.26 | 25.40 | FI-SN-30x4-B-W2 |
| | 30 | 30 x 4 | 250 | 22 | 52 | 57,5 | 14,65 | |
| | 1.18 | 1.18 x .16 | 3625 | .87 | 2.05 | 2.26 | 32.23 | FI-SN-30x5-B-W2 |
| | 30 | 30 x 5 | 315 | 20 | 52 | 57,5 | 16,91 | |
| | 1.18 | 1.18 x .20 | 4568 | .79 | 2.05 | 2.26 | 37.21 | FI-SN-38x4-B-W2 |
| 38 | 38 x 4 | 160 | 30 | 56,5 | 64,5 | 20,29 | | |
| 1.50 | 1.50 x .16 | 2320 | 1.18 | 2.22 | 2.54 | 44.64 | FI-SN-38x5-B-W2 | |
| 38 | 38 x 5 | 250 | 28 | 56,5 | 64,5 | 24,05 | | |
| 1.50 | 1.50 x .20 | 3625 | 1.10 | 2.22 | 2.54 | 52.91 | FI-SN-38x6-B-W2 | |
| 38 | 38 x 6 | 315 | 26 | 56,5 | 64,5 | 27,91 | | |
| 1.50 | 1.50 x .24 | 4568 | 1.02 | 2.22 | 2.54 | 61.41 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding union nut.

³ Standard scope of delivery: 24° weld cone and O-ring.

Standard seal material is NBR (Buna-N®).

Ordering Codes
***FI-SN*-10x1.5*-B*-W2**

| | |
|---------------------------------|--|
| * 24° Weld Cone with O-Ring | FI-SN |
| * Outside Tube Diameter (in mm) | -10 |
| * Wall Thickness (in mm) | x1.5 |
| * Seal Material | NBR (Buna-N®) -B FKM (Viton®) -V EPDM -E |
| * Material Code | Steel, phosphated -W2 |

Please contact STAUFF for alternative materials and surface finishings.

***FI-SN*-10Lx1.5*-B*-W159*-M**

| | |
|---------------------------------|--|
| * 24° Weld Cone with O-Ring | FI-SN |
| * Outside Tube Diameter (in mm) | -10 |
| * Wall Thickness (in mm) | x1.5 |
| * Series | Light Series (page 100) L Heavy Series (pages 100/101) S |
| * Seal Material | NBR (Buna-N®) -B FKM (Viton®) -V EPDM -E |
| * Material Code | Weld cone: Steel, phosphated Union nut: Steel, zinc/nickel-plated -W159 |

Please contact STAUFF for alternative materials and surface finishings.

| | | |
|------------------------|---|----|
| * Assembling / Kitting | 24° weld cone with O-ring supplied with union nut | -M |
|------------------------|---|----|

Connecting Parts

 Union Nut
Type FI-M

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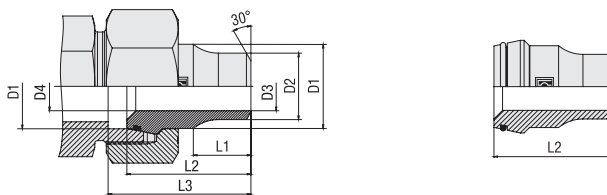
Spare Parts / Accessories

 O-Ring
Type O-RING

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24° Weld Cone Reducer with O-Ring Type FI-SNR • Series L / S



Ordering Codes

FI-SNR-10/*08*x2.5*-B*-W2

- * 24° Weld Cone Reducer with O-Ring **FI-SNR**
- * Outside Tube Diameter D1 (in mm) **-10/**
- * Outside Tube Diameter D2 (in mm) **-08**
- * Wall Thickness (in mm) **x2.5**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, phosphated **-W2**

Please contact STAUFF for alternative materials and surface finishings.

FI-SNR-10*L*08*x2.5*-B*-W159*-M

- * 24° Weld Cone Reducer with O-Ring **FI-SNR**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Light Series **L**
Heavy Series **S**
- * Outside Tube Diameter D2 (in mm) **-08**
- * Wall Thickness (in mm) **x2.5**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Weld cone:
Steel, phosphated **-W159**
Union nut:
Steel, zinc/nickel-plated

Please contact STAUFF for alternative materials and surface finishings.

- * Assembling / Kitting 24° weld cone with O-ring supplied with union nut **-M**

| Series | Tube OD | | PN (bar/psi) | Dimensions (mm/in) | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|-----------|-----------|-----------------|-----------------------|-----|------|------|------|------|--|-----------------------------|
| | D1 | for Tube | | D2 | D3 | D4 | L1 | L2 | L3 | | |
| L/S | 8 | 6 x 2,0 | 400 | 6 | 2 | 5 | 12 | 31 | 32 | 1,45 | FI-SNR-08/06x2.0-B-W2 |
| | .31 | .24 x .08 | 5800 | .24 | .08 | .20 | .47 | 1.22 | 1.26 | 3.19 | |
| | 10 | 8 x 2,5 | 400 | 8 | 3 | 6,50 | 12 | 32,5 | 33,5 | 1,75 | FI-SNR-10/08x2.5-B-W2 |
| | .39 | .31 x .10 | 5800 | .31 | .12 | .26 | .47 | 1.28 | 1.32 | 3.85 | |
| | 12 | 10 x 3,0 | 400 | 10 | 4 | 8 | 14 | 32,5 | 33,5 | 2,19 | FI-SNR-12/10x3.0-B-W2 |
| .47 | .39 x .12 | 5800 | .39 | .16 | .31 | .55 | 1.28 | 1.32 | 4.82 | | |
| S | 14 | 12 x 3,5 | 400 | 12 | 5 | 9 | 15 | 38,5 | 39,5 | 3,56 | FI-SNR-14/12x3.5-B-W2 |
| | .55 | .47 x .14 | 5800 | .47 | .20 | .35 | .59 | 1.52 | 1.56 | 7.83 | |
| | 16 | 12 x 2,0 | 250 | 12 | 8 | 11 | 17 | 38,5 | 41 | 4,70 | FI-SNR-16/12x2.0-B-W2 |
| | .63 | .47 x .08 | 3625 | .47 | .31 | .43 | .67 | 1.52 | 1.61 | 10.34 | |
| | 20 | 16 x 3,0 | 315 | 16 | 10 | 14 | 17 | 44,5 | 47 | 7,73 | FI-SNR-20/16x3.0-B-W2 |
| | .79 | .63 x .12 | 4568 | .63 | .39 | .55 | .67 | 1.75 | 1.85 | 17.01 | |
| | 30 | 25 x 5,0 | 315 | 25 | 15 | 22 | 22 | 52 | 57,5 | 16,91 | FI-SNR-30/25x5.0-B-W2 |
| | 1.18 | .98 x .20 | 4568 | .98 | .59 | .87 | .87 | 2.05 | 2.26 | 37.21 | |

¹ Approximate dimension in assembled condition.

² Weight excluding union nut.

³ Standard scope of delivery: 24° weld cone and O-ring.

Standard seal material is NBR (Buna-N®).

Connecting Parts



Union Nut
Type **FI-M**

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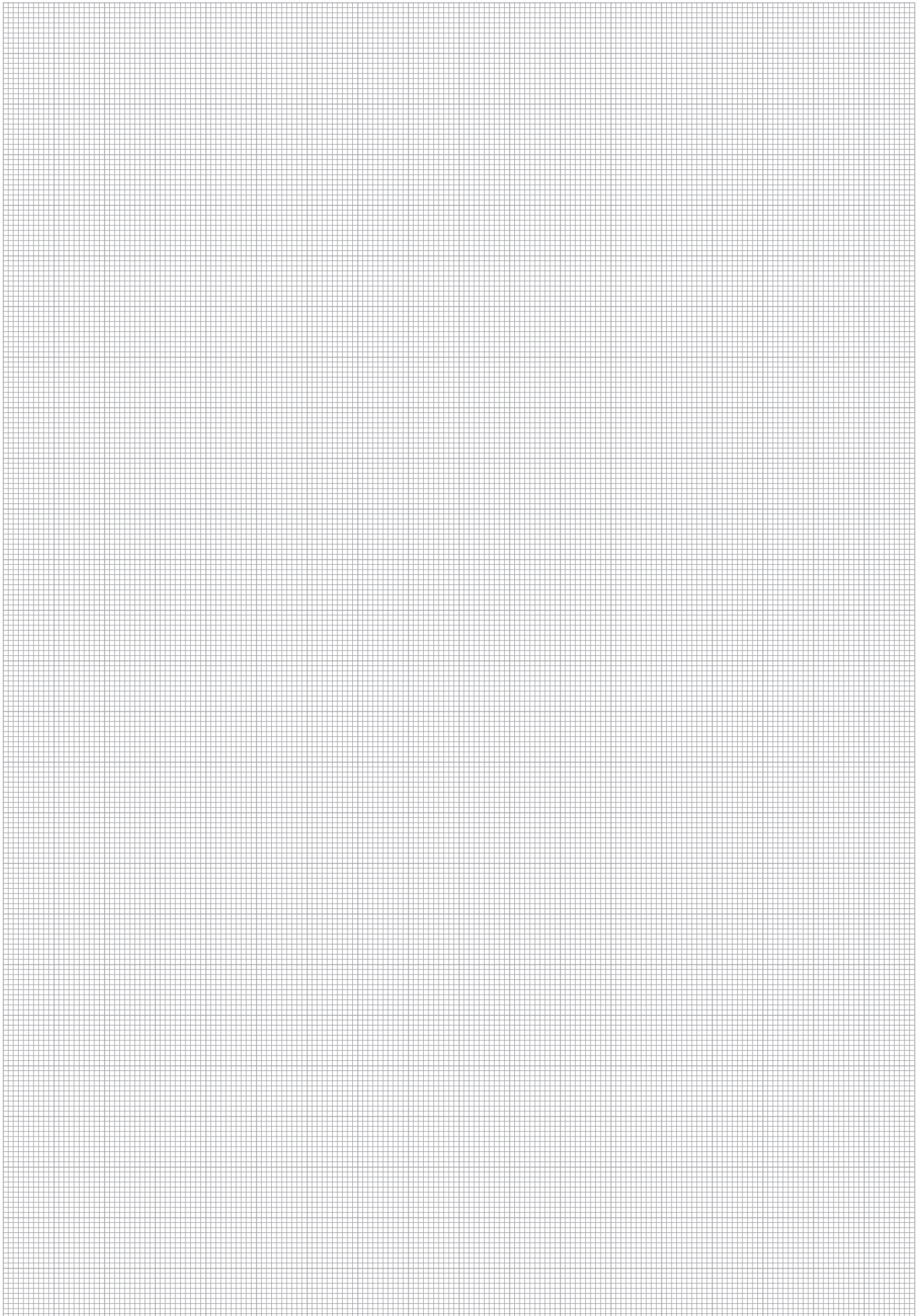
Spare Parts / Accessories



O-Ring
Type **O-RING**

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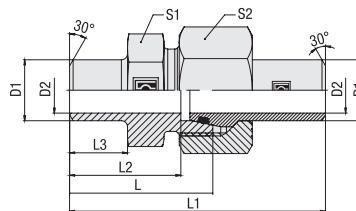




F



Straight Weld Fitting for Tubes
Type FI-ASV • Series S



Ordering Codes

***FI-ASV*-06*S*x1.5*-B*-W159*-MSN**

- * Straight Weld Fitting for Tubes **FI-ASV**
- * Outside Tube Diameter (in mm) **-06**
- * Series Heavy Series **S**
- * Wall Thickness (in mm) **x1.5**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, phosphated **-W2**
Fitting body / weld cone: Steel, phosphated **-W159**
Union nut: Steel, zinc/nickel-plated

Please contact STAUFF for alternative materials and surface finishings.

- * Assembling / Kitting Straight weld fitting for tubes supplied with 24° weld cone with O-ring and union nut **-MSN**

Connecting Parts



Union Nut
Type **FI-M**

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Spare Parts / Accessories



O-Ring
Type **O-RING**

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| Series | Tube OD | | PN (bar/psi) | Dimensions | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|---------|------------|-----------------|------------|------|-----------------|------|------|------|------|--|-----------------------------|
| | D1 | for Tube | | D2 | L | L1 ¹ | L2 | L3 | S1 | S2 | | |
| S | 10 | 10 x 1 | 249 | 8 | 32 | 58 | 24,5 | 10 | 19 | 22 | 8,11 | FI-ASV-10Sx1-B-W159-MSN |
| | .39 | .39 x .04 | 3610 | .31 | 1.26 | 2.28 | .96 | .39 | .75 | .87 | 17.84 | FI-ASV-10Sx1.5-B-W159-MSN |
| | 10 | 10 x 1,5 | 358 | 7 | 32 | 58 | 24,5 | 10 | 19 | 22 | 8,54 | FI-ASV-10Sx2-B-W159-MSN |
| | .39 | .39 x .06 | 5191 | .28 | 1.26 | 2.28 | .96 | .39 | .75 | .87 | 18.79 | FI-ASV-10Sx2.5-B-W159-MSN |
| | 10 | 10 x 2 | 460 | 6 | 32 | 58 | 24,5 | 10 | 19 | 22 | 8,99 | FI-ASV-10Sx3-B-W159-MSN |
| | .39 | .39 x .08 | 6670 | .24 | 1.26 | 2.28 | .96 | .39 | .75 | .87 | 19.78 | FI-ASV-10Sx3.5-B-W159-MSN |
| | 12 | 12 x 1,5 | 305 | 9 | 37 | 63 | 29,5 | 15 | 22 | 24 | 10,47 | FI-ASV-12Sx1.5-B-W159-MSN |
| | .47 | .47 x .06 | 4423 | .35 | 1.46 | 2.48 | 1.16 | .59 | .87 | .94 | 23.03 | FI-ASV-12Sx2-B-W159-MSN |
| | 12 | 12 x 2 | 393 | 8 | 37 | 63 | 29,5 | 15 | 22 | 24 | 11,00 | FI-ASV-12Sx2.5-B-W159-MSN |
| | .47 | .47 x .08 | 5699 | .31 | 1.46 | 2.48 | 1.16 | .59 | .87 | .94 | 24.20 | FI-ASV-12Sx3-B-W159-MSN |
| | 12 | 12 x 2,5 | 476 | 7 | 37 | 63 | 29,5 | 15 | 22 | 24 | 11,54 | FI-ASV-12Sx3.5-B-W159-MSN |
| | .47 | .47 x .10 | 6902 | .28 | 1.46 | 2.48 | 1.16 | .59 | .87 | .94 | 25.39 | FI-ASV-12Sx4-B-W159-MSN |
| | 16 | 16 x 1,5 | 234 | 13 | 41,5 | 74 | 33 | 16,5 | 27 | 30 | 17,40 | FI-ASV-16Sx1.5-B-W159-MSN |
| | .63 | .63 x .06 | 3393 | .51 | 1.63 | 2.91 | 1.30 | .65 | 1.06 | 1.18 | 38.28 | FI-ASV-16Sx2-B-W159-MSN |
| | 16 | 16 x 2 | 305 | 12 | 41,5 | 74 | 33 | 16,5 | 27 | 30 | 18,30 | FI-ASV-16Sx2.5-B-W159-MSN |
| | .63 | .63 x .08 | 4423 | .47 | 1.63 | 2.91 | 1.30 | .65 | 1.06 | 1.18 | 40.26 | FI-ASV-16Sx3-B-W159-MSN |
| | 16 | 16 x 2,5 | 372 | 11 | 41,5 | 74 | 33 | 16,5 | 27 | 30 | 19,27 | FI-ASV-16Sx3.5-B-W159-MSN |
| | .63 | .63 x .10 | 5394 | .43 | 1.63 | 2.91 | 1.30 | .65 | 1.06 | 1.18 | 42.39 | FI-ASV-16Sx4-B-W159-MSN |
| | 16 | 16 x 3 | 400 | 10 | 41,5 | 74 | 33 | 16,5 | 27 | 30 | 20,09 | FI-ASV-16Sx4.5-B-W159-MSN |
| | .63 | .63 x .12 | 5800 | .39 | 1.63 | 2.91 | 1.30 | .65 | 1.06 | 1.18 | 44.20 | FI-ASV-16Sx5-B-W159-MSN |
| | 20 | 20 x 2 | 249 | 16 | 47 | 84 | 36,5 | 19 | 32 | 36 | 28,18 | FI-ASV-20Sx2-B-W159-MSN |
| | .79 | .79 x .08 | 3611 | .63 | 1.85 | 3.31 | 1.44 | .75 | 1.26 | 1.42 | 62.00 | FI-ASV-20Sx2.5-B-W159-MSN |
| | 20 | 20 x 2,5 | 305 | 15 | 47 | 84 | 36,5 | 19 | 32 | 36 | 29,67 | FI-ASV-20Sx3-B-W159-MSN |
| | .79 | .79 x .10 | 4423 | .59 | 1.85 | 3.31 | 1.44 | .75 | 1.26 | 1.42 | 65.27 | FI-ASV-20Sx3.5-B-W159-MSN |
| | 20 | 20 x 3 | 358 | 14 | 47 | 84 | 36,5 | 19 | 32 | 36 | 31,08 | FI-ASV-20Sx4-B-W159-MSN |
| | .79 | .79 x .12 | 5191 | .55 | 1.85 | 3.31 | 1.44 | .75 | 1.26 | 1.42 | 68.38 | FI-ASV-20Sx4.5-B-W159-MSN |
| | 20 | 20 x 4 | 400 | 12 | 47 | 84 | 36,5 | 19 | 32 | 36 | 33,10 | FI-ASV-20Sx5-B-W159-MSN |
| | .79 | .79 x .16 | 5800 | .47 | 1.85 | 3.31 | 1.44 | .75 | 1.26 | 1.42 | 72.82 | FI-ASV-20Sx5.5-B-W159-MSN |
| | 25 | 25 x 3 | 294 | 19 | 51,5 | 93 | 39,5 | 19,5 | 41 | 46 | 53,44 | FI-ASV-25Sx3-B-W159-MSN |
| | .98 | .98 x .12 | 4263 | .75 | 2.03 | 3.66 | 1.56 | .77 | 1.61 | 1.81 | 117.57 | FI-ASV-25Sx3.5-B-W159-MSN |
| | 25 | 25 x 4 | 379 | 17 | 51,5 | 93 | 39,5 | 19,5 | 41 | 46 | 57,29 | FI-ASV-25Sx4-B-W159-MSN |
| | .98 | .98 x .16 | 5496 | .67 | 2.03 | 3.66 | 1.56 | .77 | 1.61 | 1.81 | 126.04 | FI-ASV-25Sx4.5-B-W159-MSN |
| | 25 | 25 x 5 | 400 | 15 | 51,5 | 93 | 39,5 | 19,5 | 41 | 46 | 59,90 | FI-ASV-25Sx5-B-W159-MSN |
| | .98 | .98 x .20 | 5800 | .59 | 2.03 | 3.66 | 1.56 | .77 | 1.61 | 1.81 | 131.78 | FI-ASV-25Sx5.5-B-W159-MSN |
| | 30 | 30 x 3 | 249 | 24 | 58 | 102 | 44,5 | 23 | 46 | 50 | 66,38 | FI-ASV-30Sx3-B-W159-MSN |
| | 1.18 | 1.18 x .12 | 3611 | .94 | 2.28 | 4.02 | 1.75 | .91 | 1.81 | 1.97 | 146.04 | FI-ASV-30Sx3.5-B-W159-MSN |
| | 30 | 30 x 4 | 323 | 22 | 58 | 102 | 44,5 | 23 | 46 | 50 | 71,62 | FI-ASV-30Sx4-B-W159-MSN |
| | 1.18 | 1.18 x .16 | 4684 | .87 | 2.28 | 4.02 | 1.75 | .91 | 1.81 | 1.97 | 157.56 | FI-ASV-30Sx4.5-B-W159-MSN |
| | 30 | 30 x 5 | 393 | 20 | 58 | 102 | 44,5 | 23 | 46 | 50 | 75,33 | FI-ASV-30Sx5-B-W159-MSN |
| | 1.18 | 1.18 x .20 | 5699 | .79 | 2.28 | 4.02 | 1.75 | .91 | 1.81 | 1.97 | 165.73 | FI-ASV-30Sx5.5-B-W159-MSN |
| | 30 | 30 x 6 | 400 | 18 | 58 | 102 | 44,5 | 23 | 46 | 50 | 79,03 | FI-ASV-30Sx6-B-W159-MSN |
| | 1.18 | 1.18 x .24 | 5800 | .71 | 2.28 | 4.02 | 1.75 | .91 | 1.81 | 1.97 | 173.87 | FI-ASV-30Sx6.5-B-W159-MSN |
| | 38 | 38 x 4 | 261 | 30 | 60 | 109 | 44 | 22 | 55 | 60 | 102,93 | FI-ASV-38Sx4-B-W159-MSN |
| | 1.50 | 1.50 x .16 | 3785 | 1.18 | 2.36 | 4.29 | 1.73 | .87 | 2.17 | 2.36 | 226.45 | FI-ASV-38Sx4.5-B-W159-MSN |
| | 38 | 38 x 5 | 315 | 28 | 60 | 109 | 44 | 22 | 55 | 60 | 108,61 | FI-ASV-38Sx5-B-W159-MSN |
| | 1.50 | 1.50 x .20 | 4568 | 1.10 | 2.36 | 4.29 | 1.73 | .87 | 2.17 | 2.36 | 238.94 | FI-ASV-38Sx5.5-B-W159-MSN |
| | 38 | 38 x 6 | 315 | 26 | 60 | 109 | 44 | 22 | 55 | 60 | 114,48 | FI-ASV-38Sx6-B-W159-MSN |
| | 1.50 | 1.50 x .24 | 4568 | 1.02 | 2.36 | 4.29 | 1.73 | .87 | 2.17 | 2.36 | 251.86 | FI-ASV-38Sx6.5-B-W159-MSN |
| | 38 | 38 x 7 | 315 | 24 | 60 | 109 | 44 | 22 | 55 | 60 | 119,83 | FI-ASV-38Sx7-B-W159-MSN |
| | 1.50 | 1.50 x .28 | 4568 | .94 | 2.36 | 4.29 | 1.73 | .87 | 2.17 | 2.36 | 263.63 | FI-ASV-38Sx7.5-B-W159-MSN |

¹ Approximate dimension in assembled condition.

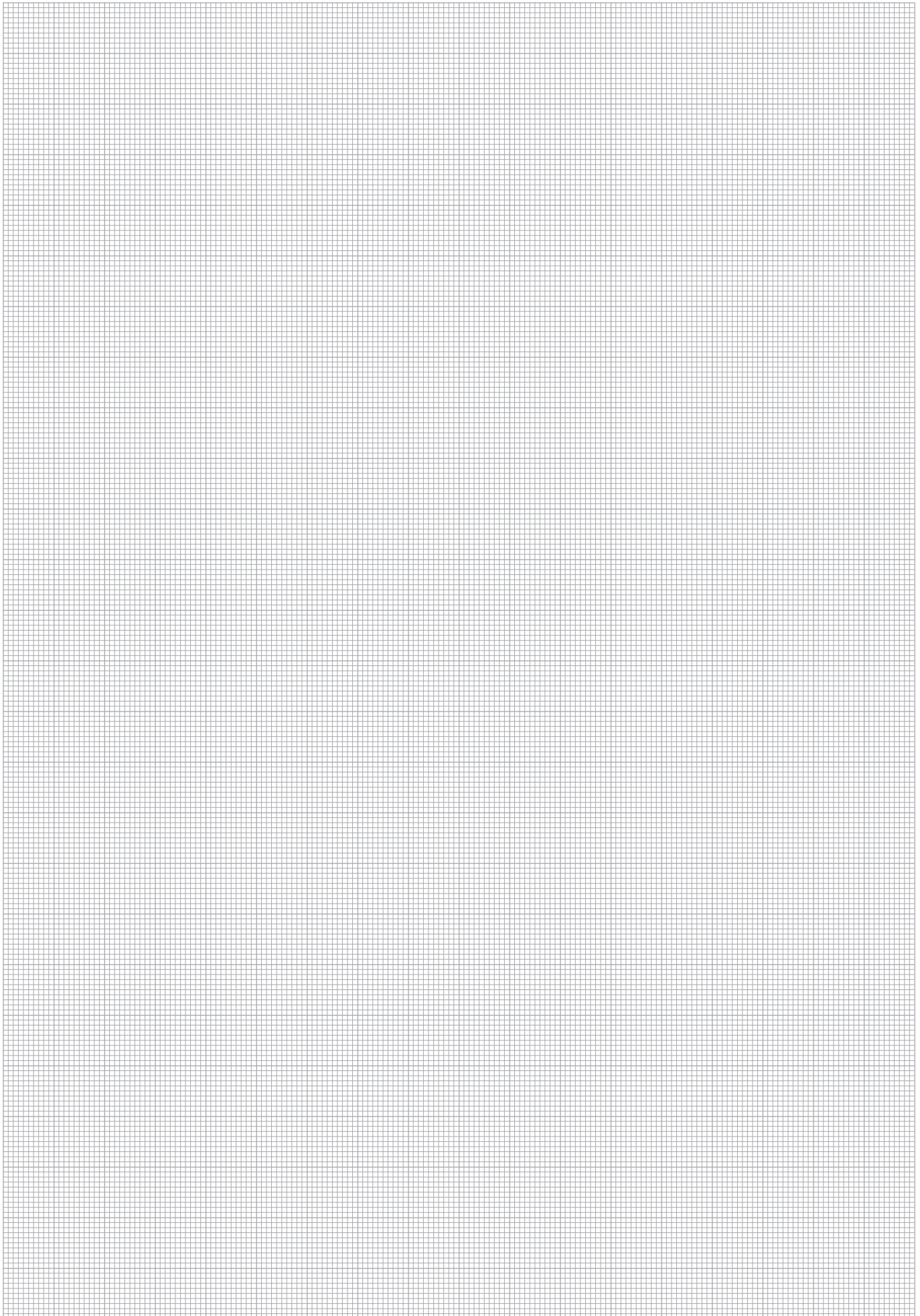
² Weight including 24° weld cone and union nut.

³ Standard scope of delivery:

24° weld cone, O-ring and union nut.

Standard seal material is NBR (Buna-N®).











F

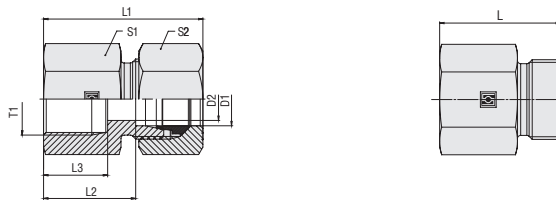




| | | |
|---|--|----------------|
| | Straight Female Stud Fitting | 108-110 |
| | FI-GA | |
|  | Female Whitworth Parallel Pipe Thread (BSPP) | 108 |
| | FI-GA-...-R | |
|  | Female Metric Parallel Thread | 109 |
| | FI-GA-...-M | |
|  | Female NPT Thread | 110 |
| | FI-GA-...-N | |
| | Gauge Fitting | 111 |
| | FI-MA | |
|  | Female Whitworth Parallel Pipe Thread (BSPP) / Internal Metallic Sealing Ring | 111 |
| | FI-MA-...-R | |
| | Gauge Fitting with 24° Taper / O-Ring | 112 |
| | FI-EMAD | |
|  | Female Whitworth Parallel Pipe Thread (BSPP) / Internal Metallic Sealing Ring | 112 |
| | FI-EMAD-...-R | |
| | Gauge Standpipe Fitting | 113 |
| | FI-EMA | |
|  | Female Whitworth Parallel Pipe Thread (BSPP) / Internal Metallic Sealing Ring | 113 |
| | FI-EMA-...-R | |



Straight Female Stud Fitting
Type FI-GA-...-R ■ Series L / S



Female Whitworth Parallel Pipe Thread (BSPP)

Ordering Codes

***FI-GA*-10*L*R*-W3*-MS**

- * Straight Female Stud Fitting **FI-GA**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L** Light Series
S Heavy Series
- * Thread Type **R** Female Whitworth Parallel Pipe Thread (BSPP)
- If required, please indicate special sizes, e.g. R3/8!
- * Material Code **-W3** Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—** Fitting body only
- MS** Fitting body supplied with cutting ring and union nut
- MSV** Fitting body supplied with soft-sealing cutting ring and union nut

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

| Series | Tube OD | | PN | Dimensions | | | | | | | | Weight (^{kg} /lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|---------|-----------|---------|------------|--------|------|------|------|-----------------|--------|--------|---|-----------------------------|
| | (mm/in) | (bar/psi) | | (mm/in) | Thread | T | D2 | L | L1 ¹ | L2 | L3 | | |
| L | 6 | 315 | 4568 | G 1/8 | 4 | 26 | 34 | 19 | 12 | 14 | 14 | 3,26 | FI-GA-06LR-W3 |
| | .24 | .16 | | | 1.02 | 1.34 | .75 | .47 | .55 | .55 | 7.16 | | |
| | 6 | 315 | 4568 | G 1/4 | 4 | 31 | 39 | 24 | 18 | 19 | 14 | 3,78 | FI-GA-06LR1/4-W3 |
| | .24 | .16 | | | 1.22 | 1.54 | .94 | .71 | .75 | .55 | 8.32 | | |
| | 8 | 315 | 4568 | G 1/4 | 6 | 31 | 39 | 24 | 17 | 19 | 17 | 3,91 | FI-GA-08LR-W3 |
| | .31 | .24 | | | 1.22 | 1.54 | .94 | .67 | .75 | .67 | 8.61 | | |
| | 8 | 315 | 4568 | G 3/8 | 6 | 31 | 39 | 24 | 16 | 24 | 17 | 2,28 | FI-GA-08LR3/8-W3 |
| | .31 | .24 | | | 1.22 | 1.54 | .94 | .63 | .94 | .67 | 5.02 | | |
| | 8 | 315 | 4568 | G 1/2 | 6 | 36 | 44 | 29 | 20 | 27 | 17 | 8,35 | FI-GA-08LR1/2-W3 |
| | .31 | .24 | | | 1.42 | 1.73 | 1.14 | .79 | 1.06 | .67 | 18.37 | | |
| | 10 | 315 | 4568 | G 1/4 | 8 | 32 | 40 | 25 | 17 | 19 | 19 | 3,95 | FI-GA-10LR-W3 |
| | .39 | .31 | | | 1.26 | 1.57 | .98 | .67 | .75 | .75 | 8.69 | | |
| | 10 | 315 | 4568 | G 3/8 | 8 | 32 | 40 | 25 | 16 | 24 | 19 | 4,94 | FI-GA-10LR3/8-W3 |
| | .39 | .31 | | | 1.26 | 1.57 | .98 | .63 | .94 | .75 | 10.86 | | |
| | 10 | 315 | 4568 | G 1/2 | 8 | 37 | 45 | 30 | 20 | 27 | 19 | 8,36 | FI-GA-10LR1/2-W3 |
| | .39 | .31 | | | 1.46 | 1.77 | 1.18 | .79 | 1.06 | .75 | 18.39 | | |
| | 12 | 315 | 4568 | G 1/4 | 8 | 33 | 41 | 26 | 17 | 19 | 22 | 4,44 | FI-GA-12LR1/4-W3 |
| | .47 | .31 | | | 1.3 | 1.61 | 1.02 | .67 | .75 | .87 | 9.76 | | |
| | 12 | 315 | 4568 | G 3/8 | 10 | 33 | 41 | 26 | 17 | 24 | 22 | 6,43 | FI-GA-12LR-W3 |
| | .47 | .39 | | | 1.3 | 1.61 | 1.02 | .67 | .94 | .87 | 14.14 | | |
| | 12 | 315 | 4568 | G 1/2 | 10 | 37 | 45 | 30 | 20 | 27 | 22 | 8,38 | FI-GA-12LR1/2-W3 |
| | .47 | .39 | | | 1.46 | 1.77 | 1.18 | .79 | 1.06 | .87 | 18.44 | | |
| | 15 | 315 | 4568 | G 1/2 | 12 | 38 | 46 | 31 | 20 | 27 | 27 | 8,84 | FI-GA-15LR-W3 |
| | .59 | .47 | | | 1.50 | 1.81 | 1.22 | .79 | 1.06 | 1.06 | 19.46 | | |
| | 18 | 315 | 4568 | G 3/8 | 15 | 34 | 43 | 26,5 | 20 | 27 | 32 | 9,61 | FI-GA-18LR3/8-W3 |
| | .71 | .59 | | | 1.34 | 1.69 | 1.04 | .79 | 1.06 | 1.26 | 21.15 | | |
| | 18 | 315 | 4568 | G 1/2 | 15 | 38 | 47 | 30,5 | 20 | 27 | 32 | 9,15 | FI-GA-18LR-W3 |
| | .71 | .59 | | | 1.50 | 1.85 | 1.20 | .79 | 1.06 | 1.26 | 20.14 | | |
| | 22 | 160 | 2320 | G 3/4 | 19 | 43 | 52 | 35,5 | 22 | 36 | 36 | 17,87 | FI-GA-22LR-W3 |
| | .87 | .75 | | | 1.69 | 2.05 | 1.40 | .87 | 1.42 | 1.42 | 39.31 | | |
| 28 | 160 | 2320 | G 1 | 24 | 45,5 | 54,5 | 38 | 24,5 | 41 | 41 | 21,80 | FI-GA-28LR-W3 | |
| 1.1 | .94 | | | 1.79 | 2.15 | 1.50 | .96 | 1.61 | 1.61 | 47.96 | | | |
| 35 | 160 | 2320 | G 1 1/4 | 30 | 51,5 | 62,5 | 41 | 26,5 | 55 | 50 | 47,49 | FI-GA-35LR-W3 | |
| 1.38 | 1.18 | | | 2.03 | 2.46 | 1.61 | 1.04 | 2.17 | 1.97 | 104.47 | | | |
| 42 | 160 | 2320 | G 1 1/2 | 36 | 53,5 | 65,5 | 42,5 | 28,5 | 60 | 60 | 53,90 | FI-GA-42LR-W3 | |
| 1.65 | 1.42 | | | 2.11 | 2.58 | 1.67 | 1.12 | 2.36 | 2.36 | 118.58 | | | |
| S | 6 | 630 | 9135 | G 1/4 | 4 | 33 | 41 | 26 | 17 | 19 | 17 | 4,33 | FI-GA-06SR-W3 |
| | .24 | .16 | | | 1.3 | 1.61 | 1.02 | .67 | .75 | .67 | 9.52 | | |
| | 8 | 630 | 9135 | G 1/4 | 5 | 33 | 41 | 26 | 17 | 19 | 19 | 4,53 | FI-GA-08SR-W3 |
| | .31 | .2 | | | 1.30 | 1.61 | 1.02 | .67 | .75 | .75 | 9.96 | | |
| | 10 | 630 | 9135 | G 3/8 | 7 | 34 | 43 | 26,5 | 17 | 24 | 22 | 6,99 | FI-GA-10SR-W3 |
| | .39 | .28 | | | 1.34 | 1.69 | 1.04 | .67 | .94 | .87 | 15.37 | | |
| | 12 | 630 | 9135 | G 3/8 | 8 | 34 | 43 | 26,5 | 17 | 24 | 24 | 7,08 | FI-GA-12SR-W3 |
| | .47 | .31 | | | 1.34 | 1.69 | 1.04 | .67 | .94 | .94 | 15.57 | | |
| | 12 | 630 | 9135 | G 1/2 | 8 | 38 | 47 | 30,5 | 20 | 27 | 24 | 9,23 | FI-GA-12SR1/2-W3 |
| | .47 | .31 | | | 1.50 | 1.85 | 1.20 | .79 | 1.06 | .94 | 20.31 | | |
| | 14 | 630 | 9135 | G 1/2 | 10 | 40 | 50 | 32 | 20 | 27 | 27 | 9,64 | FI-GA-14SR-W3 |
| | .55 | .39 | | | 1.57 | 1.97 | 1.26 | .79 | 1.06 | 1.06 | 21.20 | | |
| | 16 | 630 | 9135 | G 1/2 | 12 | 40 | 50 | 31,5 | 20 | 27 | 30 | 9,70 | FI-GA-16SR-W3 |
| | .63 | .47 | | | 1.57 | 1.97 | 1.24 | .79 | 1.06 | 1.18 | 21.33 | | |
| | 20 | 400 | 5800 | G 3/4 | 16 | 45 | 56 | 34,5 | 22 | 36 | 36 | 19,50 | FI-GA-20SR-W3 |
| | .79 | .63 | | | 1.77 | 2.20 | 1.36 | .87 | 1.42 | 1.42 | 42.90 | | |
| | 25 | 400 | 5800 | G 1 | 20 | 49,5 | 61,5 | 37,5 | 24,5 | 41 | 46 | 25,14 | FI-GA-25SR-W3 |
| | .98 | .79 | | | 1.95 | 2.42 | 1.48 | .96 | 1.61 | 1.81 | 55.30 | | |
| | 30 | 400 | 5800 | G 1 1/4 | 25 | 55,5 | 68,5 | 42 | 26,5 | 55 | 50 | 51,30 | FI-GA-30SR-W3 |
| | 1.18 | .98 | | | 2.19 | 2.70 | 1.65 | 1.04 | 2.17 | 1.97 | 112.86 | | |
| | 38 | 315 | 4568 | G 1 1/2 | 32 | 59,5 | 74,5 | 43,5 | 28,5 | 60 | 60 | 62,80 | FI-GA-38SR-W3 |
| | 1.50 | 1.26 | | | 2.34 | 2.93 | 1.71 | 1.12 | 2.36 | 2.36 | 138.16 | | |

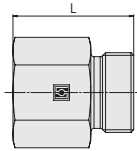
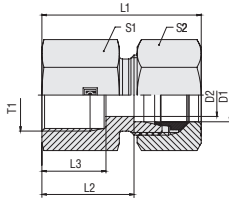
¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.



Straight Female Stud Fitting
Type FI-GA...-M • Series L / S



Female Metric Parallel Thread

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) Thread T | D2 | L | L1 ¹ | L2 | L3 | S1 | S2 | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------------------|------|------|-----------------|------|------|------|--------|--|-----------------------------|
| | | | | | | | | | | | | |
| L | 6 | 315 | M10 x 1 | 4 | 26,5 | 34,5 | 19,5 | 12,5 | 14 | 14 | 1,89 | FI-GA-06LM-W3 |
| | .24 | 4568 | | .16 | 1.04 | 1.36 | .77 | .49 | .55 | .55 | 4.15 | |
| | 8 | 315 | M12 x 1,5 | 6 | 31 | 39 | 24 | 17 | 17 | 17 | 3,40 | FI-GA-08LM-W3 |
| | .31 | 4568 | | .24 | 1.22 | 1.54 | .94 | .67 | .67 | .67 | 7.48 | |
| | 10 | 315 | M14 x 1,5 | 8 | 32 | 40 | 25 | 17 | 19 | 19 | 3,73 | FI-GA-10LM-W3 |
| | .39 | 4568 | | .31 | 1.26 | 1.57 | .98 | .67 | .75 | .75 | 8.20 | |
| | 12 | 315 | M16 x 1,5 | 10 | 33 | 41 | 26 | 17 | 22 | 22 | 5,29 | FI-GA-12LM-W3 |
| | .47 | 4568 | | .39 | 1.30 | 1.61 | 1.02 | .67 | .87 | .87 | 11.64 | |
| | 15 | 315 | M18 x 1,5 | 12 | 35 | 43 | 28 | 17 | 24 | 27 | 6,77 | FI-GA-15LM-W3 |
| | .59 | 4568 | | .47 | 1.38 | 1.69 | 1.10 | .67 | .94 | 1.06 | 14.89 | |
| | 18 | 315 | M22 x 1,5 | 15 | 37 | 46 | 29,5 | 19 | 30 | 32 | 11,20 | FI-GA-18LM-W3 |
| | .71 | 4568 | | .59 | 1.46 | 1.81 | 1.16 | .75 | 1.18 | 1.26 | 24.63 | |
| | 22 | 160 | M26 x 1,5 | 19 | 42 | 51 | 34,5 | 21 | 32 | 36 | 12,42 | FI-GA-22LM-W3 |
| | .87 | 2320 | | .75 | 1.65 | 2.01 | 1.36 | .83 | 1.26 | 1.42 | 27.33 | |
| | 28 | 160 | M33 x 2 | 24 | 45 | 54 | 37,5 | 24 | 41 | 41 | 21,35 | FI-GA-28LM-W3 |
| | 1.10 | 2320 | | .94 | 1.77 | 2.13 | 1.48 | .94 | 1.61 | 1.61 | 46.97 | |
| | 35 | 160 | M42 x 2 | 30 | 51 | 62 | 40,5 | 26 | 55 | 50 | 46,20 | FI-GA-35LM-W3 |
| 1.38 | 2320 | | 1.18 | 2.01 | 2.44 | 1.59 | 1.02 | 2.17 | 1.97 | 101.64 | | |
| 42 | 160 | M48 x 2 | 36 | 53 | 65 | 42 | 28 | 60 | 60 | 52,10 | FI-GA-42LM-W3 | |
| 1.65 | 2320 | | 1.42 | 2.09 | 2.56 | 1.65 | 1.10 | 2.36 | 2.36 | 114.62 | | |
| S | 8 | 630 | M14 x 1,5 | 5 | 33 | 41 | 26 | 17 | 19 | 19 | 4,36 | FI-GA-08SM-W3 |
| | .31 | 9135 | | .20 | 1.30 | 1.61 | 1.02 | .67 | .75 | .75 | 9.59 | |
| | 10 | 630 | M16 x 1,5 | 7 | 34 | 43 | 26,5 | 17 | 22 | 22 | 1,31 | FI-GA-10SM-W3 |
| | .39 | 9135 | | .28 | 1.34 | 1.69 | 1.04 | .67 | .87 | .87 | 2.89 | |
| | 12 | 630 | M18 x 1,5 | 8 | 35 | 44 | 27,5 | 17 | 24 | 24 | 7,01 | FI-GA-12SM-W3 |
| | .47 | 9135 | | .31 | 1.38 | 1.73 | 1.08 | .67 | .94 | .94 | 15.41 | |
| | 14 | 630 | M20 x 1,5 | 10 | 39 | 49 | 31 | 19 | 27 | 27 | 9,54 | FI-GA-14SM-W3 |
| | .55 | 9135 | | .39 | 1.54 | 1.93 | 1.22 | .75 | 1.06 | 1.06 | 20.99 | |
| | 16 | 630 | M22 x 1,5 | 12 | 39 | 49 | 30,5 | 19 | 30 | 30 | 11,71 | FI-GA-16SM-W3 |
| | .63 | 9135 | | .47 | 1.54 | 1.93 | 1.20 | .75 | 1.18 | 1.18 | 25.76 | |
| | 20 | 400 | M27 x 2 | 16 | 45 | 56 | 34,5 | 22 | 36 | 36 | 18,68 | FI-GA-20SM-W3 |
| | .79 | 5800 | | .63 | 1.77 | 2.20 | 1.36 | .87 | 1.42 | 1.42 | 41.09 | |
| | 25 | 400 | M33 x 2 | 20 | 49 | 61 | 37 | 24 | 41 | 46 | 24,73 | FI-GA-25SM-W3 |
| | .98 | 5800 | | .79 | 1.93 | 2.40 | 1.46 | .94 | 1.61 | 1.81 | 54.40 | |
| | 30 | 400 | M42 x 2 | 25 | 55 | 68 | 41,5 | 26 | 55 | 50 | 50,30 | FI-GA-30SM-W3 |
| 1.18 | 5800 | | .98 | 2.17 | 2.68 | 1.63 | 1.02 | 2.17 | 1.97 | 110.66 | | |
| 38 | 400 | M48 x 2 | 32 | 59 | 74 | 43 | 28 | 60 | 60 | 62,80 | FI-GA-38SM-W3 | |
| 1.50 | 5800 | | 1.26 | 2.32 | 2.91 | 1.69 | 1.10 | 2.36 | 2.36 | 138.16 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Ordering Codes

***FI-GA*-10*L*M*-W3*-MS**

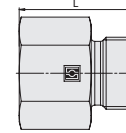
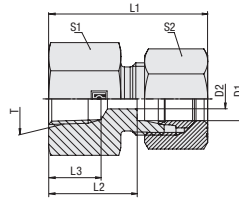
| | |
|---|---|
| * Straight Female Stud Fitting | FI-GA |
| * Outside Tube Diameter D1 (in mm) | -10 |
| * Series | Light Series L Heavy Series S |
| * Thread Type | Female Metric Parallel Thread M |
| If required, please indicate special sizes, e.g. M12x1.5! | |
| * Material Code | Steel, zinc/nickel-plated -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | |
| * Assembling / Kitting | Fitting body only — |
| | Fitting body supplied with cutting ring and union nut -MS |
| | Fitting body supplied with soft-sealing cutting ring and union nut -MSV |

Connecting Parts

| | | |
|--|---|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |



Straight Female Stud Fitting
Type FI-GA-...-N ■ Series L / S



NPT Thread

Ordering Codes

***FI-GA*-10*L*1/4*N*-W3*-MS**

- * Straight Female Stud Fitting **FI-GA**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
Light Series
Heavy Series **S**
- * Thread Size **1/4**
acc. to dimension table
- Please always indicate thread sizes, e.g. 1/4!
- * Thread Type **N**
NPT Thread
- * Material Code **-W3**
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
Fitting body only
- Fitting body supplied with cutting ring and union nut **-MS**
- Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|-----|------|------|-----------------|------|------|------|-------|--|-----------------------------|
| | | | Thread | T | D2 | L | L1 ¹ | L2 | L3 | S1 | S2 | | |
| L | 6 | 315 | 1/4 NPT | 4 | 30,5 | 38 | 23,5 | 16,4 | 19 | 14 | 4,20 | FI-GA-06L1/4N-W3 | |
| | .24 | 4568 | | .16 | 1.20 | 1.50 | .93 | .65 | .75 | .55 | 9.24 | | |
| | 8 | 315 | 1/4 NPT | 6 | 30,5 | 38 | 23,5 | 16,4 | 19 | 17 | 4,30 | FI-GA-08L1/4N-W3 | |
| | .31 | 4568 | | .24 | 1.20 | 1.50 | .93 | .65 | .75 | .67 | 9.46 | | |
| | 10 | 315 | 1/4 NPT | 8 | 31 | 39 | 24,0 | 16,4 | 19 | 19 | 4,10 | FI-GA-10L1/4N-W3 | |
| | .39 | 4568 | | .31 | 1.22 | 1.54 | .95 | .65 | .75 | .75 | 9.02 | | |
| S | 16 | 400 | 1/2 NPT | 12 | 43 | 50 | 34,5 | 22,6 | 27 | 30 | 11,70 | FI-GA-16S1/2N-W3 | |
| | .63 | 5800 | | .47 | 1.69 | 1.97 | 1.36 | .89 | 1.06 | 1.18 | 25.74 | | |
| | 20 | 315 | 1/2 NPT | 16 | 44 | 55 | 33,5 | 23,1 | 32 | 36 | 16,00 | FI-GA-20S1/2N-W3 | |
| | .79 | 4568 | | .63 | 1.73 | 2.17 | 1.32 | .91 | 1.26 | 1.42 | 35.20 | | |
| | 20 | 315 | 3/4 NPT | 16 | 46 | 57 | 35,5 | 23,1 | 36 | 36 | 20,29 | FI-GA-20S3/4N-W3 | |
| | .79 | 4568 | | .63 | 1.81 | 2.24 | 1.40 | .91 | 1.42 | 1.42 | 44.63 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

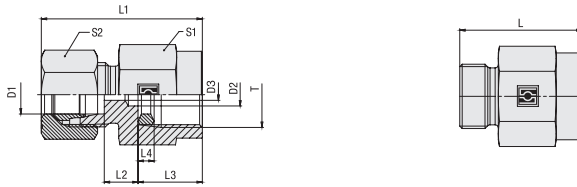
Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

G



Gauge Fitting
Type FI-MA-...-R • Series L / S



Internal Metallic Sealing Ring

Female Whitworth Parallel Pipe Thread (BSPP)

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | Dimensions | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------------|------|------|------|------|-----------------|------|------|-------|-------------------|--|-----------------------------|
| | | | | Thread | T | D2 | D3 | L | L1 ¹ | L2 | L3 | L4 | S1 | | |
| L | 6 | 315 | G 1/4 | 5,5 | 4 | 29 | 37 | 7,5 | 14,5 | 4,5 | 19 | 14 | 3,76 | FI-MA-06LR-W3-DKI | |
| | .24 | 4568 | | .22 | .16 | 1.14 | 1.46 | .30 | .57 | .18 | .75 | .55 | 8,27 | | |
| | 8 | 315 | G 1/4 | 5,5 | 5,5 | 29 | 37 | 7,5 | 14,5 | 4,5 | 19 | 17 | 3,74 | FI-MA-08LR-W3-DKI | |
| | .31 | 4568 | | .22 | .22 | 1.14 | 1.46 | .30 | .57 | .18 | .75 | .67 | 8,23 | | |
| | 10 | 315 | G 1/4 | 5,5 | 5,5 | 30 | 38 | 8,5 | 14,5 | 4,5 | 19 | 19 | 4,05 | FI-MA-10LR-W3-DKI | |
| | .39 | 4568 | | .22 | .22 | 1.18 | 1.50 | .33 | .57 | .18 | .75 | .75 | 8,92 | | |
| 12 | 315 | G 1/4 | 5,5 | 5,5 | 30 | 38 | 8,5 | 14,5 | 4,5 | 19 | 22 | 4,31 | FI-MA-12LR-W3-DKI | | |
| .47 | 4568 | | .22 | .22 | 1.18 | 1.50 | .33 | .57 | .18 | .75 | .87 | 9,48 | | | |
| S | 6 | 630 | G 1/2 | 7 | 4 | 38 | 46 | 11 | 20 | 5 | 27 | 17 | 9,16 | FI-MA-06SR-W3-DKI | |
| | .24 | 9135 | | .28 | .16 | 1.50 | 1.81 | .43 | .79 | .20 | 1.06 | .67 | 2,16 | | |
| | 8 | 630 | G 1/2 | 7 | 5 | 38 | 46 | 11 | 20 | 5 | 27 | 19 | 9,30 | FI-MA-08SR-W3-DKI | |
| | .31 | 9135 | | .28 | .20 | 1.50 | 1.81 | .43 | .79 | .20 | 1.06 | .75 | 2,46 | | |
| | 10 | 630 | G 1/2 | 7 | 3,5 | 38 | 47 | 10,5 | 20 | 5 | 27 | 22 | 9,39 | FI-MA-10SR-W3-DKI | |
| | .39 | 9135 | | .28 | .14 | 1.50 | 1.85 | .41 | .79 | .20 | 1.06 | .87 | 2,65 | | |
| 12 | 630 | G 1/2 | 7 | 3,5 | 38 | 47 | 10,5 | 20 | 5 | 27 | 24 | 9,76 | FI-MA-12SR-W3-DKI | | |
| .47 | 9135 | | .28 | .14 | 1.50 | 1.85 | .41 | .79 | .20 | 1.06 | .94 | 21,47 | | | |

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.

Ordering Codes

FI-MA-10*L*R*-W3*-DKI

| | | |
|---|--|--------------|
| * Gauge Fitting | | FI-MA |
| * Outside Tube Diameter D1 (in mm) | | -10 |
| * Series | Light Series | L |
| | Heavy Series | S |
| * Thread Type | Female Whitworth Parallel Pipe Thread (BSPP) | R |
| If required, please indicate special sizes, e.g. R1/2! | | |
| * Material Code | Steel, zinc/nickel-plated | -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | | |
| * Internal Seal Type | Internal metallic sealing ring | -DKI |
| * Assembling / Kitting | Fitting body only | — |
| | Fitting body supplied with cutting ring and union nut | -MS |
| | Fitting body supplied with soft-sealing cutting ring and union nut | -MSV |



Connecting Parts

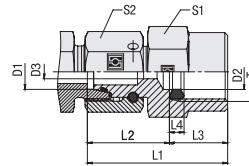
| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

Spare Parts / Accessories

| | | |
|--|--|----------|
| | Internal Metallic Sealing Ring Type FI-DKI | Page 214 |
|--|--|----------|



Gauge Fitting with 24° Taper / O-Ring
Type FI-EMAD-...-R ▪ Series L / S



Female Whitworth Parallel Pipe Thread (BSPP)

Internal Metallic Sealing Ring

Ordering Codes

***FI-EMAD*-10*L*R*-W3*-DKI-DKO**

- * Gauge Fitting with 24° Taper / O-Ring **FI-EMAD**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
Light Series
S
Heavy Series
- * Thread Type **R**
Female Whitworth Parallel
Pipe Thread (BSPP)
- If required, please indicate special sizes, e.g. R1/2!
- * Seal Material **-B**
NBR (Buna-N®)
-V
FKM (Viton®)
-E
EPDM
- * Material Code **-W3**
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Internal Seal Type **-DKI**
Internal metallic sealing ring
- * Assembling / Kitting **-DKO**
Fitting body supplied with swivel nut and O-ring

| Series | Tube OD (mm/in) D1 | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | Weight (kg/lbs) ca. per 100 | Ordering Codes |
|--------|--------------------------|-----------------|-----------------------|-----|------|------|------|------|------|------|-------|-------|-----------------------------------|----------------|
| | | | Thread | T | D2 | D3 | L1 | L2 | L3 | L4 | S1 | S2 | | |
| L | 6 | 315 | G 1/4 | 5,5 | 3 | 38,5 | 24 | 14,5 | 4,5 | 19 | 14 | 6,34 | FI-EMAD-06LR-B-W3-DKI-DKO | |
| | .24 | 4568 | | .22 | .12 | 1.52 | .94 | .57 | .18 | .75 | .55 | 13.95 | | |
| | 8 | 315 | G 1/4 | 5,5 | 3 | 38,5 | 24 | 14,5 | 4,5 | 19 | 17 | 6,16 | FI-EMAD-08LR-B-W3-DKI-DKO | |
| | .31 | 4568 | | .22 | .14 | 1.52 | .94 | .57 | .18 | .75 | .67 | 13.56 | | |
| | 10 | 315 | G 1/4 | 5,5 | 3,5 | 39,5 | 25 | 14,5 | 4,5 | 19 | 19 | 7,22 | FI-EMAD-10LR-B-W3-DKI-DKO | |
| | .39 | 4568 | | .22 | .14 | 1.56 | .98 | .57 | .18 | .75 | .75 | 15.88 | | |
| | 12 | 315 | G 1/4 | 5,5 | 3,5 | 36 | 21,5 | 14,5 | 4,5 | 19 | 22 | 8,48 | FI-EMAD-12LR-B-W3-DKI-DKO | |
| .47 | 4568 | | .22 | .14 | 1.42 | .85 | .57 | .18 | .75 | .87 | 18.66 | | | |
| S | 6 | 630 | G 1/4 | 5,5 | 3,0 | 38 | 23,5 | 14,5 | 4,5 | 19 | 17 | 6,08 | FI-EMAD-06SR1/4-B-W3-DKI-DKO | |
| | .24 | 9135 | | .22 | .12 | 1.50 | .93 | .57 | .18 | .75 | .67 | 13.38 | | |
| | 6 | 630 | G 1/2 | 7 | 3 | 45 | 25 | 20 | 5 | 27 | 17 | 11,49 | FI-EMAD-06SR-B-W3-DKI-DKO | |
| | .24 | 9135 | | .28 | .12 | 1.77 | .98 | .79 | .20 | 1.06 | .67 | 25.29 | | |
| | 8 | 630 | G 1/4 | 5,5 | 3,5 | 40 | 25,5 | 14,5 | 4,5 | 19 | 19 | 6,55 | FI-EMAD-08SR1/4-B-W3-DKI-DKO | |
| | .31 | 9135 | | .22 | .14 | 1.57 | 1.00 | .57 | .18 | .75 | .75 | 14.41 | | |
| | 8 | 630 | G 1/2 | 7 | 3,5 | 42,5 | 22,5 | 20 | 5 | 27 | 19 | 10,87 | FI-EMAD-08SR-B-W3-DKI-DKO | |
| | .31 | 9135 | | .28 | .14 | 1.67 | .89 | .79 | .20 | 1.06 | .75 | 23.92 | | |
| | 10 | 630 | G 1/4 | 5,5 | 3,5 | 38,5 | 24 | 14,5 | 4,5 | 19 | 22 | 7,66 | FI-EMAD-10SR1/4-B-W3-DKI-DKO | |
| | .39 | 9135 | | .22 | .14 | 1.52 | .94 | .57 | .18 | .75 | .87 | 16.86 | | |
| | 10 | 630 | G 1/2 | 7 | 3,5 | 43,5 | 23,5 | 20 | 5 | 27 | 22 | 12,19 | FI-EMAD-10SR-B-W3-DKI-DKO | |
| | .39 | 9135 | | .28 | .14 | 1.71 | .93 | .79 | .20 | 1.06 | .87 | 26.83 | | |
| | 12 | 630 | G 1/4 | 5,5 | 3,5 | 40 | 25,5 | 14,5 | 4,5 | 19 | 24 | 9,40 | FI-EMAD-12SR1/4-B-W3-DKI-DKO | |
| | .47 | 9135 | | .22 | .14 | 1.57 | 1.00 | .57 | .18 | .75 | .94 | 20.69 | | |
| | 12 | 630 | G 1/2 | 7 | 3,5 | 45,5 | 25,5 | 20 | 5 | 27 | 24 | 13,98 | FI-EMAD-12SR-B-W3-DKI-DKO | |
| .47 | 9135 | | .28 | .14 | 1.79 | 1.00 | .79 | .20 | 1.06 | .94 | 30.76 | | | |

Standard seal material is NBR (Buna-N®).

Spare Parts / Accessories

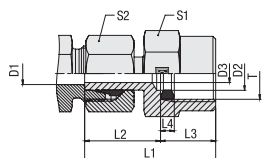


O-Ring
Type **O-RING** Page 207



Internal Metallic Sealing Ring
Type **FI-DKI** Page 214



**Gauge Standpipe Fitting
Type FI-EMA-...-R ▪ Series L / S**

Internal Metallic Sealing Ring
Female Whitworth Parallel Pipe Thread (BSPP)

| Series | Tube OD | | Dimensions (mm/in) | Dimensions | | | | | | | | | | Weight (kg/lbs) Ca. per 100 ¹ | Ordering Codes |
|--------|---------|-----------------|-----------------------|------------|------|------|------|------|------|------|-------|-----------------------|-----------------------|--|----------------|
| | (mm/in) | PN (bar/PSI) | | Thread T | D2 | D3 | L1 | L2 | L3 | L4 | S1 | S2 | | | |
| L | 6 | 315 | G 1/4 | 5,5 | 3,3 | 38 | 23,5 | 14,5 | 4,5 | 19 | 14 | 4,65 | FI-EMA-06LR-W3-DKI-SV | | |
| | .24 | 4568 | | .22 | .13 | 1.5 | .93 | .57 | .18 | .75 | .55 | 10.23 | | | |
| | 8 | 315 | G 1/4 | 5,5 | 3,5 | 38 | 23,5 | 14,5 | 4,5 | 19 | 17 | 5,53 | FI-EMA-08LR-W3-DKI-SV | | |
| | .31 | 4568 | | .22 | .14 | 1.5 | .93 | .57 | .18 | .75 | .67 | 12.16 | | | |
| | 10 | 315 | G 1/4 | 5,5 | 3,5 | 39,5 | 25 | 14,5 | 4,5 | 19 | 19 | 6,40 | FI-EMA-10LR-W3-DKI-SV | | |
| | .39 | 4568 | | .22 | .14 | 1.56 | .98 | .57 | .18 | .75 | .75 | 14.08 | | | |
| 12 | 315 | G 1/4 | 5,5 | 3,5 | 40,5 | 26 | 14,5 | 4,5 | 19 | 22 | 8,01 | FI-EMA-12LR-W3-DKI-SV | | | |
| .47 | 4568 | | .22 | .14 | 1.59 | 1.02 | .57 | .18 | .75 | .87 | 17.63 | | | | |
| S | 6 | 630 | G 1/2 | 7 | 3,5 | 45 | 25 | 20 | 5 | 27 | 17 | 10,73 | FI-EMA-06SR-W3-DKI-SV | | |
| | .24 | 9135 | | .28 | .14 | 1.77 | .98 | .79 | .2 | 1.06 | .67 | 23.61 | | | |
| | 8 | 630 | G 1/2 | 7 | 3,5 | 45 | 25 | 20 | 5 | 27 | 19 | 10,95 | FI-EMA-08SR-W3-DKI-SV | | |
| | .31 | 9135 | | .28 | .14 | 1.77 | .98 | .79 | .2 | 1.06 | .75 | 24.09 | | | |
| | 10 | 630 | G 1/2 | 7 | 3,5 | 47 | 27 | 20 | 5 | 27 | 22 | 12,15 | FI-EMA-10SR-W3-DKI-SV | | |
| | .39 | 9135 | | .28 | .14 | 1.85 | 1.06 | .79 | .2 | 1.06 | .87 | 26.73 | | | |
| 12 | 630 | G 1/2 | 7 | 3,5 | 47,5 | 27,5 | 20 | 5 | 27 | 24 | 13,43 | FI-EMA-12SR-W3-DKI-SV | | | |
| .47 | 9135 | | .28 | .14 | 1.87 | 1.08 | .79 | .2 | 1.06 | .94 | 29.55 | | | | |

¹ Weight including cutting ring and union nut.

Please note: Standpipes are always factory-assembled with cutting rings and union nuts.

The union nut assembled on the standpipe has to be tightened by only 1/12 a turn (equivalent to 30°) beyond the fixed point.


Ordering Codes
***FI-EMA*-10*L*R*-W3*-DKI-SV**

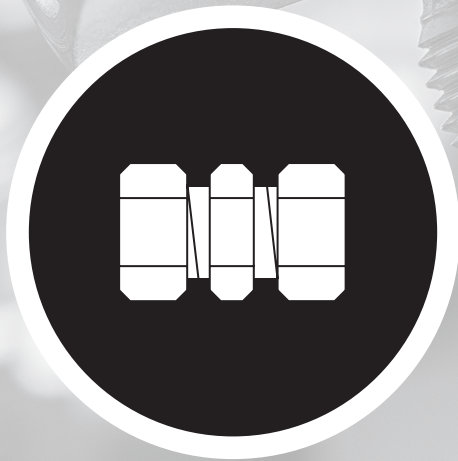
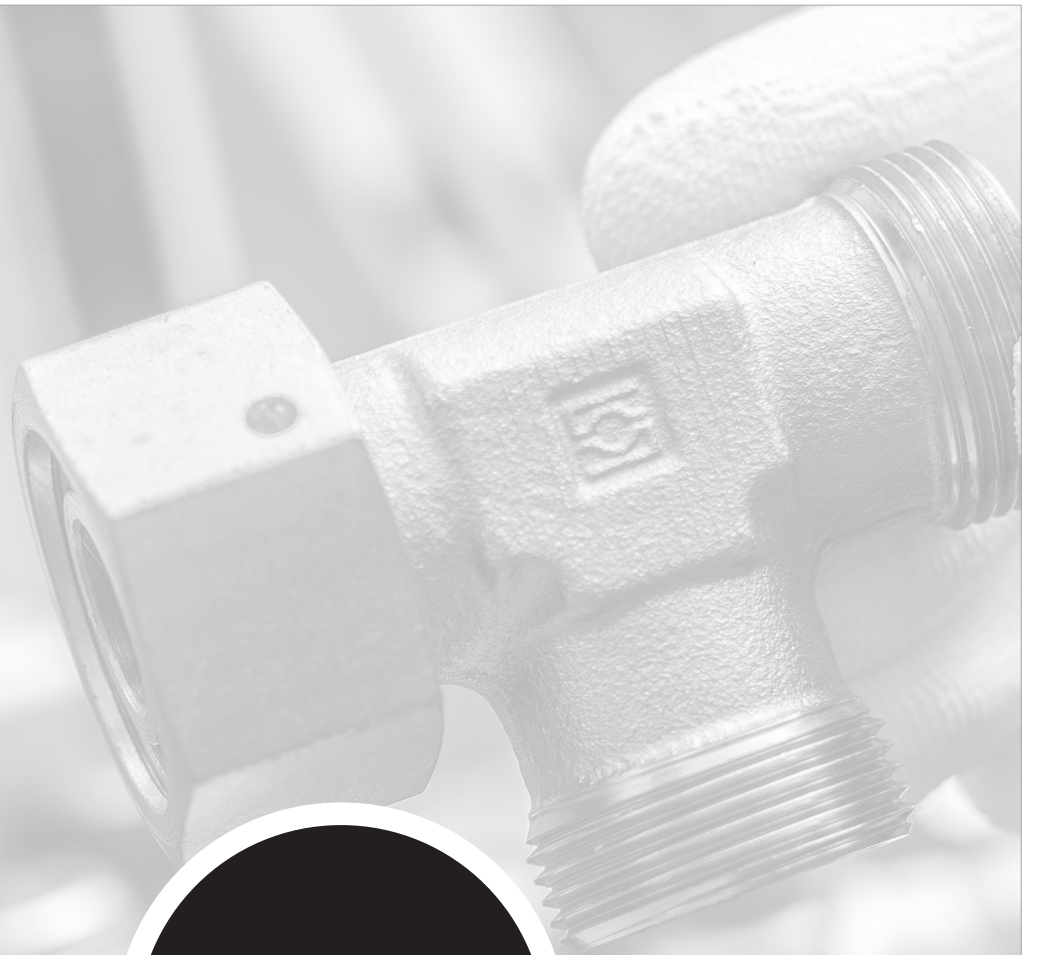
- * Gauge Standpipe Fitting FI-EMA
- * Outside Tube Diameter D1 (in mm) -10
- * Series Light Series L
Heavy Series S
- * Thread Type Female Whitworth Parallel Pipe Thread (BSPP) R
- If required, please indicate special sizes, e.g. R1/2!
- * Material Code Steel, zinc/nickel-plated -W3
- Please contact STAUFF for alternative materials and surface finishings.
- * Internal Seal Type Internal metallic sealing ring -DKI
- * Assembling / Kitting Standpipe factory-assembled with cutting ring and union nut -SV

Spare Parts / Accessories


Internal Metallic Sealing Ring
Type FI-DKI

Page 214

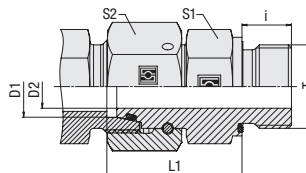




| | | |
|---|---|---------|
| | Straight Male Stud Fitting with 24° Taper / O-Ring | 116-117 |
| | FI-EGED | |
|  | Whitworth Parallel Pipe Thread (BSPP) / Profile Sealing Ring | 116 |
| | FI-EGED-...-R-WD | |
|  | Metric Parallel Thread / Profile Sealing Ring | 117 |
| | FI-EGED-...-M-WD | |
|  | Straight Fitting with 24° Taper / O-Ring | 118 |
| | FI-SNV | |
|  | Straight Reducer with 24° Taper / O-Ring | 120 |
| | FI-SNV | |
|  | Straight Reducer for Tube Ends with 24° Taper / O-Ring | 122 |
| | FI-RESD | |
|  | Adjustable Elbow (90°) with 24° Taper / O-Ring | 126 |
| | FI-EWD | |
|  | Adjustable Elbow (45°) with 24° Taper / O-Ring | 127 |
| | FI-EVD | |
|  | Adjustable Branch Tee with 24° Taper / O-Ring | 128 |
| | FI-ETD | |
|  | Adjustable Barrel Tee with 24° Taper / O-Ring | 129 |
| | FI-ELD | |



**Straight Male Stud Fitting with 24° Taper / O-Ring
Type FI-EGED-...-R-WD ▪ Series L / S**



Whitworth Parallel Pipe Thread (BSPP)

Profile Sealing Ring

Ordering Codes

***FI-EGED*-10*L*R*-WD*-B*-W3*-DKO**

* Straight Male Stud Fitting with 24° Taper / O-Ring (DKO) **FI-EGED**

* Outside Tube Diameter D1 (in mm) **-10**

* Series Light Series **L**
Heavy Series **S**

* Thread Type Whitworth Parallel Pipe Thread (BSPP) **R**

If required, please indicate special sizes, e.g. R3/8!

* Seal Type Profile Sealing Ring **-WD**

* Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**

Male Stud: NBR (Buna-N®) **-BV**
24° Taper: FKM (Viton®) **-E**

* Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

* Assembling / Kitting Fitting body supplied with swivel nut and O-ring **-DKO**

Spare Parts / Accessories



O-Ring
Type **O-RING** Page 207



Profile Sealing Ring
Type **WDG** Page 206

| Series | Tube OD | | PN | Dimensions | | | | | | Torque (N·m/ft·lb) | Weight (% / lbs) ca. per 100 | Ordering Codes |
|--------|---------|---------|---------|------------|--------|------|------|-------|--------|--------------------------|------------------------------------|----------------|
| | (mm/in) | (mm/in) | | (mm/in) | Thread | T | D2 | i | L1 | | | |
| L | 6 | 500 | G 1/8 | 2,5 | 8 | 24,5 | 14 | 14 | 18 | 3,74 | FI-EGED-06LR-WD-B-W3-DKO | |
| | .24 | 7250 | | .10 | .31 | .96 | .55 | .55 | 13.3 | 8.22 | | |
| | 8 | 500 | G 1/4 | 4 | 12 | 29,5 | 19 | 17 | 35 | 5,23 | FI-EGED-08LR-WD-B-W3-DKO | |
| | .31 | 7250 | | .16 | .47 | 1.16 | .75 | .67 | 25.9 | 11.50 | | |
| | 10 | 500 | G 1/4 | 6 | 12 | 27,5 | 19 | 19 | 35 | 5,68 | FI-EGED-10LR-WD-B-W3-DKO | |
| | .39 | 7250 | | .24 | .47 | 1.08 | .75 | .75 | 25.9 | 12.49 | | |
| | 12 | 400 | G 3/8 | 8 | 12 | 34 | 22 | 22 | 70 | 9,78 | FI-EGED-12LR-WD-B-W3-DKO | |
| | .47 | 5800 | | .31 | .47 | 1.34 | .87 | .87 | 51.8 | 21.52 | | |
| | 12 | 400 | G 1/2 | 8 | 14 | 29,5 | 27 | 22 | 90 | 11,71 | FI-EGED-12LR1/2-WD-B-W3-DKO | |
| | .47 | 5800 | | .31 | .55 | 1.16 | 1.06 | .87 | 66.6 | 25.76 | | |
| | 15 | 400 | G 1/2 | 10 | 14 | 32 | 27 | 27 | 90 | 13,70 | FI-EGED-15LR-WD-B-W3-DKO | |
| | .59 | 5800 | | .39 | .55 | 1.26 | 1.06 | 1.06 | 66.6 | 30.14 | | |
| | 18 | 400 | G 1/2 | 13 | 14 | 31,5 | 27 | 32 | 90 | 14,86 | FI-EGED-18LR-WD-B-W3-DKO | |
| | .71 | 5800 | | .51 | .55 | 1.24 | 1.06 | 1.26 | 66.6 | 32.69 | | |
| | 22 | 250 | G 3/4 | 17 | 16 | 32,5 | 32 | 36 | 180 | 20,98 | FI-EGED-22LR-WD-B-W3-DKO | |
| | .87 | 3625 | | .67 | .63 | 1.28 | 1.26 | 1.42 | 133.2 | 46.15 | | |
| | 28 | 250 | G 1 | 22 | 18 | 35 | 41 | 41 | 310 | 22,78 | FI-EGED-28LR-WD-B-W3-DKO | |
| | 1.10 | 3625 | | .87 | .71 | 1.38 | 1.61 | 1.61 | 229.4 | 50.12 | | |
| 35 | 250 | G 1 1/4 | 28 | 20 | 42,5 | 50 | 50 | 450 | 51,00 | FI-EGED-35LR-WD-B-W3-DKO | | |
| 1.38 | 3625 | | 1.10 | .79 | 1.67 | 1.97 | 1.97 | 333.0 | 112.20 | | | |
| 42 | 250 | G 1 1/2 | 34 | 22 | 46,5 | 55 | 60 | 540 | 68,60 | FI-EGED-42LR-WD-B-W3-DKO | | |
| 1.65 | 3625 | | 1.34 | .87 | 1.83 | 2.17 | 2.36 | 399.6 | 150.92 | | | |
| S | 6 | 800 | G 1/4 | 2,5 | 12 | 27 | 19 | 17 | 55 | 5,55 | FI-EGED-06SR-WD-B-W3-DKO | |
| | .24 | 11600 | | .10 | .47 | 1.06 | .75 | .67 | 40.7 | 12.21 | | |
| | 8 | 800 | G 1/4 | 4 | 12 | 29,5 | 19 | 19 | 55 | 6,52 | FI-EGED-08SR-WD-B-W3-DKO | |
| | .31 | 11600 | | .16 | .47 | 1.16 | .75 | .75 | 40.7 | 14.34 | | |
| | 10 | 800 | G 3/8 | 6 | 12 | 32 | 22 | 22 | 80 | 9,63 | FI-EGED-10SR-WD-B-W3-DKO | |
| | .39 | 11600 | | .24 | .47 | 1.26 | .87 | .87 | 59.2 | 21.19 | | |
| | 12 | 630 | G 3/8 | 8 | 12 | 34 | 22 | 24 | 80 | 7,03 | FI-EGED-12SR-WD-B-W3-DKO | |
| | .47 | 9135 | | .31 | .47 | 1.34 | .87 | .94 | 59.2 | 15.46 | | |
| | 14 | 630 | G 1/2 | 9 | 14 | 37 | 27 | 27 | 115 | 14,39 | FI-EGED-14SR-WD-B-W3-DKO | |
| | .55 | 9135 | | .35 | .55 | 1.46 | 1.06 | 1.06 | 85.1 | 31.67 | | |
| | 16 | 630 | G 1/2 | 11 | 14 | 37 | 27 | 30 | 115 | 17,03 | FI-EGED-16SR-WD-B-W3-DKO | |
| | .63 | 9135 | | .43 | .55 | 1.46 | 1.06 | 1.18 | 85.1 | 37.46 | | |
| | 20 | 400 | G 3/4 | 14 | 16 | 43 | 32 | 36 | 180 | 27,34 | FI-EGED-20SR-WD-B-W3-DKO | |
| | .79 | 5800 | | .55 | .63 | 1.69 | 1.26 | 1.42 | 133.2 | 60.15 | | |
| | 25 | 400 | G 1 | 18 | 18 | 48 | 41 | 46 | 310 | 50,20 | FI-EGED-25SR-WD-B-W3-DKO | |
| | .98 | 5800 | | .71 | .71 | 1.89 | 1.61 | 1.81 | 229.4 | 110.44 | | |
| | 30 | 400 | G 1 1/4 | 23 | 20 | 51 | 50 | 50 | 450 | 70,40 | FI-EGED-30SR-WD-B-W3-DKO | |
| | 1.18 | 5800 | | .91 | .79 | 2.01 | 1.97 | 1.97 | 333.0 | 154.88 | | |
| 38 | 400 | G 1 1/2 | 30 | 22 | 60 | 55 | 60 | 540 | 93,50 | FI-EGED-38SR-WD-B-W3-DKO | | |
| 1.50 | 5800 | | 1.18 | .87 | 2.36 | 2.17 | 2.36 | 399.6 | 205.70 | | | |

Standard seal material is NBR (Buna-N®).

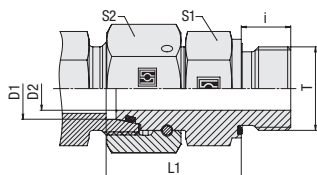
Male stud acc. to ISO 1179-2 (Type E)
Port acc. to ISO 1179-1

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Torque recommendations for Steel mating material.

Please contact STAUFF prior to the assembly for further information.



**Straight Male Stud Fitting with 24° Taper / O-Ring
Type FI-EGED-...-M-WD • Series L / S**

Profile Sealing Ring
Metric Parallel Thread

| Series | Tube OD | | Dimensions (mm/in) | Dimensions | | | | | | Torque (N·m/ft-lb) | Weight (kg/lbs) ca. | Ordering Codes |
|--------|---------|-----------------|-----------------------|------------|------|------|------|-------|--------|--------------------------|--------------------------|----------------|
| | (mm/in) | PN (bar/PSI) | | Thread T | D2 | i | L1 | S1 | S2 | | | |
| L | 6 | 500 | M10x1 | 2,5 | 8 | 24,5 | 14 | 14 | 18 | 3,76 | FI-EGED-06LM-WD-B-W3-DKO | |
| | .24 | 7250 | | .10 | .31 | .96 | .55 | .55 | 13.3 | 8.27 | | |
| | 8 | 500 | M12x1,5 | 4 | 12 | 26,5 | 17 | 17 | 25 | 4,64 | FI-EGED-08LM-WD-B-W3-DKO | |
| | .31 | 7250 | | .16 | .47 | 1.04 | .67 | .67 | 18.5 | 10.21 | | |
| | 10 | 500 | M14x1,5 | 6 | 12 | 27,5 | 19 | 19 | 45 | 5,97 | FI-EGED-10LM-WD-B-W3-DKO | |
| | .39 | 7250 | | .24 | .47 | 1.08 | .75 | .75 | 33.3 | 13.14 | | |
| | 12 | 400 | M16x1,5 | 8 | 12 | 30,5 | 22 | 22 | 55 | 9,58 | FI-EGED-12LM-WD-B-W3-DKO | |
| | .47 | 5800 | | .31 | .47 | 1.20 | .87 | .87 | 40.7 | 21.08 | | |
| | 15 | 400 | M18x1,5 | 10 | 12 | 31,5 | 24 | 27 | 70 | 12,62 | FI-EGED-15LM-WD-B-W3-DKO | |
| | .59 | 5800 | | .39 | .47 | 1.24 | .94 | 1.06 | 51.8 | 27.76 | | |
| | 18 | 400 | M22x1,5 | 13 | 14 | 31,5 | 27 | 32 | 125 | 15,28 | FI-EGED-18LM-WD-B-W3-DKO | |
| | .71 | 5800 | | .51 | .55 | 1.24 | 1.06 | 1.26 | 92.5 | 33.62 | | |
| | 22 | 250 | M26x1,5 | 17 | 16 | 32,5 | 32 | 36 | 180 | 20,75 | FI-EGED-22LM-WD-B-W3-DKO | |
| | .87 | 3625 | | .67 | .63 | 1.28 | 1.26 | 1.42 | 133.2 | 45.64 | | |
| | 28 | 250 | M33x2 | 22 | 18 | 35 | 41 | 41 | 310 | 28,61 | FI-EGED-28LM-WD-B-W3-DKO | |
| | 1.10 | 3625 | | .87 | .71 | 1.38 | 1.61 | 1.61 | 229.4 | 62.95 | | |
| | 35 | 250 | M42x2 | 28 | 20 | 42,5 | 50 | 50 | 450 | 52,30 | FI-EGED-35LM-WD-B-W3-DKO | |
| | 1.38 | 3625 | | 1.10 | .79 | 1.67 | 1.97 | 1.97 | 333.0 | 115.06 | | |
| 42 | 250 | M48x2 | 34 | 22 | 46,5 | 55 | 60 | 540 | 72,56 | FI-EGED-42LM-WD-B-W3-DKO | | |
| 1.65 | 3625 | | 1.34 | .87 | 1.83 | 2.17 | 2.36 | 399.6 | 159.62 | | | |
| S | 6 | 800 | M12x1,5 | 2,5 | 12 | 27 | 17 | 17 | 35 | 4,88 | FI-EGED-06SM-WD-B-W3-DKO | |
| | .24 | 11600 | | .10 | .47 | 1.06 | .67 | .67 | 25.9 | 10.73 | | |
| | 8 | 800 | M14x1,5 | 4 | 12 | 29,5 | 19 | 19 | 55 | 6,59 | FI-EGED-08SM-WD-B-W3-DKO | |
| | .31 | 11600 | | .16 | .47 | 1.16 | .75 | .75 | 40.7 | 14.49 | | |
| | 10 | 800 | M16x1,5 | 6 | 12 | 32 | 22 | 22 | 70 | 9,34 | FI-EGED-10SM-WD-B-W3-DKO | |
| | .39 | 11600 | | .24 | .47 | 1.26 | .87 | .87 | 51.80 | 20.54 | | |
| | 12 | 630 | M18x1,5 | 8 | 12 | 34 | 24 | 24 | 90 | 10,44 | FI-EGED-12SM-WD-B-W3-DKO | |
| | .47 | 9135 | | .31 | .47 | 1.34 | .94 | .94 | 66.6 | 22.97 | | |
| | 14 | 630 | M20x1,5 | 9 | 14 | 36,5 | 27 | 27 | 125 | 16,00 | FI-EGED-14SM-WD-B-W3-DKO | |
| | .55 | 9135 | | .35 | .55 | 1.44 | 1.06 | 1.06 | 92.5 | 35.21 | | |
| | 16 | 630 | M22x1,5 | 11 | 14 | 37 | 27 | 30 | 135 | 17,32 | FI-EGED-16SM-WD-B-W3-DKO | |
| | .63 | 9135 | | .43 | .55 | 1.46 | 1.06 | 1.18 | 99.9 | 38.11 | | |
| | 20 | 400 | M27x2 | 14 | 16 | 43 | 32 | 36 | 180 | 27,99 | FI-EGED-20SM-WD-B-W3-DKO | |
| | .79 | 5800 | | .55 | .63 | 1.69 | 1.26 | 1.42 | 133.2 | 61.58 | | |
| | 25 | 400 | M33x2 | 18 | 18 | 48 | 41 | 46 | 310 | 50,00 | FI-EGED-25SM-WD-B-W3-DKO | |
| | .98 | 5800 | | .71 | .71 | 1.89 | 1.61 | 1.81 | 229.4 | 110.00 | | |
| | 30 | 400 | M42x2 | 23 | 20 | 51 | 50 | 50 | 450 | 70,30 | FI-EGED-30SM-WD-B-W3-DKO | |
| | 1.18 | 5800 | | .91 | .79 | 2.01 | 1.97 | 1.97 | 333.0 | 154.66 | | |
| 38 | 400 | M48x2 | 30 | 22 | 60 | 55 | 60 | 540 | 94,50 | FI-EGED-38SM-WD-B-W3-DKO | | |
| 1.50 | 5800 | | 1.18 | .87 | 2.36 | 2.17 | 2.36 | 399.6 | 207.90 | | | |

Ordering Codes
***FI-EGED*-10*L*M*-WD*-B*-W3*-DKO**

* Straight Male Stud Fitting with 24° Taper / O-Ring (DKO) **FI-EGED**

* Outside Tube Diameter D1 (in mm) **-10**

* Series Light Series **L**
Heavy Series **S**

* Thread Type Metric Parallel Thread **M**

If required, please indicate special sizes, e.g. M12x1.5!

* Seal Type Profile Sealing Ring **-WD**

* Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
Male Stud: NBR (Buna-N®) **-BV**
24° Taper: FKM (Viton®) **-E**
EPDM **-E**

* Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

* Assembling / Kitting Fitting body supplied with swivel nut and O-ring **-DKO**

Spare Parts / Accessories

O-Ring Type **O-RING** Page 207

Profile Sealing Ring Type **WDG** Page 206

Standard seal material is NBR (Buna-N®).

Male stud acc. to ISO 9974-2 (Type E)

Port acc. to ISO 9974-1

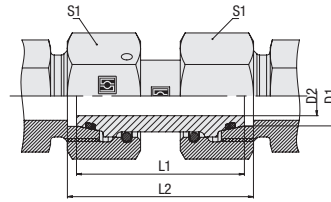
Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Torque recommendations for Steel mating material.

Please contact STAUFF prior to the assembly for further information.



**Straight Fitting with 24° Taper / O-Ring
Type FI-SNV • Series L / S**



Ordering Codes

***FI-SNV*-10*L*-B*-W3*-DKO**

- * Straight Fitting with 24° Taper / O-Ring (DKO) **FI-SNV**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
Light Series
Heavy Series **S**
- * Seal Material **-B**
NBR (Buna-N®)
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code **-W3**
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body supplied with swivel nuts and O-rings **-DKO**

Spare Parts / Accessories



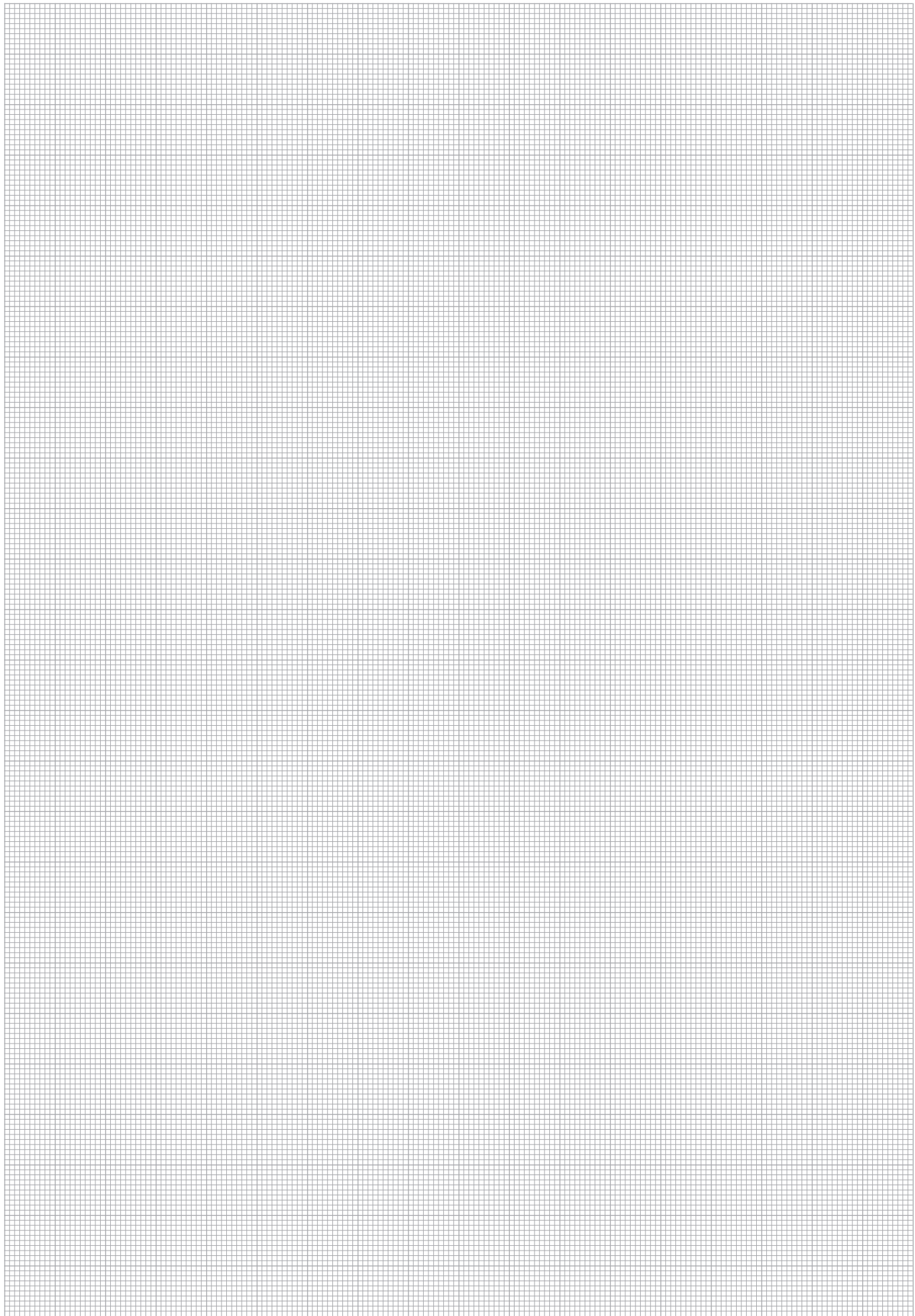
O-Ring
Type **O-RING**

Page 207

| Series | Tube OD | PN | Dimensions | | | | Weight (% / lbs) ca. per 100 | Ordering Codes |
|--------|---------------|-------|------------|---------------|------|--------|------------------------------------|---------------------|
| | (mm/in) D1 | | (bar/psi) | (mm/in) D2 | L1 | L2 | | |
| L | 6 | 500 | 3 | 34 | 36,7 | 14 | 3,82 | FI-SNV-06L-B-W3-DKO |
| | .24 | 7250 | .12 | 1.34 | 1.44 | .55 | 8.40 | |
| | 8 | 500 | 5 | 34 | 36,7 | 17 | 4,29 | FI-SNV-08L-B-W3-DKO |
| | .31 | 7250 | .20 | 1.34 | 1.44 | .67 | 9.44 | |
| | 10 | 500 | 6 | 36 | 37,8 | 19 | 5,78 | FI-SNV-10L-B-W3-DKO |
| | .39 | 7250 | .24 | 1.42 | 1.49 | .75 | 12.72 | |
| | 12 | 400 | 8 | 36 | 37,8 | 22 | 7,00 | FI-SNV-12L-B-W3-DKO |
| | .47 | 5800 | .31 | 1.42 | 1.49 | .87 | 15.40 | |
| | 15 | 400 | 11 | 39 | 40,8 | 27 | 12,58 | FI-SNV-15L-B-W3-DKO |
| | .59 | 5800 | .43 | 1.54 | 1.61 | 1.06 | 27.68 | |
| | 18 | 400 | 13 | 40,5 | 43,3 | 32 | 17,59 | FI-SNV-18L-B-W3-DKO |
| | .71 | 5800 | .51 | 1.59 | 1.70 | 1.26 | 38.70 | |
| | 22 | 250 | 17 | 45 | 47,8 | 36 | 24,91 | FI-SNV-22L-B-W3-DKO |
| | .87 | 3625 | .67 | 1.77 | 1.88 | 1.42 | 54.80 | |
| | 28 | 250 | 23 | 46 | 48,8 | 41 | 27,40 | FI-SNV-28L-B-W3-DKO |
| | 1.10 | 3625 | .91 | 1.81 | 1.92 | 1.61 | 60.28 | |
| | 35 | 250 | 28 | 53 | 59 | 50 | 45,98 | FI-SNV-35L-B-W3-DKO |
| | 1.38 | 3625 | 1.10 | 2.09 | 2.32 | 1.97 | 101.15 | |
| | 42 | 250 | 35 | 53 | 60 | 60 | 69,50 | FI-SNV-42L-B-W3-DKO |
| | 1.65 | 3625 | 1.38 | 2.09 | 2.36 | 2.36 | 152.90 | |
| S | 6 | 800 | 3 | 37 | 39,7 | 17 | 4,52 | FI-SNV-06S-B-W3-DKO |
| | .24 | 11600 | .12 | 1.46 | 1.56 | .67 | 9.95 | |
| | 8 | 800 | 4 | 37 | 39,7 | 19 | 6,03 | FI-SNV-08S-B-W3-DKO |
| | .31 | 11600 | .16 | 1.46 | 1.56 | .75 | 13.27 | |
| | 10 | 800 | 6 | 41 | 43,8 | 22 | 8,39 | FI-SNV-10S-B-W3-DKO |
| | .39 | 11600 | .24 | 1.61 | 1.72 | .87 | 18.47 | |
| | 12 | 630 | 8 | 42 | 44,8 | 24 | 10,51 | FI-SNV-12S-B-W3-DKO |
| | .47 | 9135 | .31 | 1.65 | 1.76 | .94 | 23.13 | |
| | 14 | 630 | 9 | 45 | 48,8 | 27 | 13,90 | FI-SNV-14S-B-W3-DKO |
| | .55 | 9135 | .35 | 1.77 | 1.92 | 1.06 | 30.59 | |
| | 16 | 630 | 10 | 46 | 50,8 | 30 | 17,57 | FI-SNV-16S-B-W3-DKO |
| | .63 | 9135 | .39 | 1.81 | 2.00 | 1.18 | 38.66 | |
| | 20 | 400 | 13 | 55 | 61 | 36 | 24,36 | FI-SNV-20S-B-W3-DKO |
| | .79 | 5800 | .51 | 2.17 | 2.40 | 1.42 | 53.59 | |
| | 25 | 400 | 18 | 58 | 67 | 46 | 49,45 | FI-SNV-25S-B-W3-DKO |
| | .98 | 5800 | .71 | 2.28 | 2.64 | 1.81 | 108.79 | |
| | 30 | 400 | 20 | 62 | 74 | 50 | 61,40 | FI-SNV-30S-B-W3-DKO |
| | 1.18 | 5800 | .79 | 2.44 | 2.91 | 1.97 | 135.08 | |
| 38 | 400 | 30 | 67 | 84 | 60 | 86,70 | FI-SNV-38S-B-W3-DKO | |
| 1.50 | 5800 | 1.18 | 2.64 | 3.31 | 2.36 | 190.74 | | |

Standard seal material is NBR (Buna-N®).

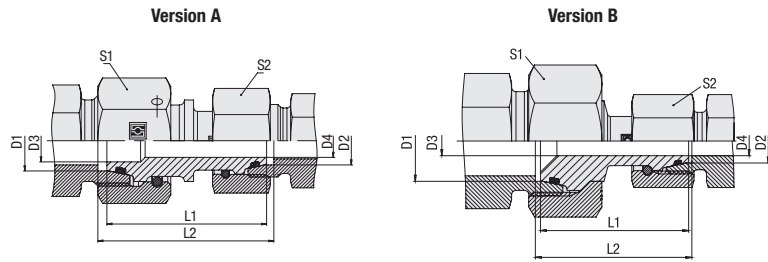




H



**Straight Reducer with 24° Taper / O-Ring
Type FI-SNV • Series L**



Ordering Codes

***FI-SNV*-10/*08*L*-B*-W3*-DKO**

- * Straight Reducer with 24° Taper / O-Ring (DKO) **FI-SNV**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Outside Tube Diameter D2 (in mm) **08**
- * Series **L**
Light Series (page 120)
Heavy Series (page 121)
- * Seal Material **-B**
NBR (Buna-N®)
FKM (Viton®)
EPDM **-E**
- * Material Code **-W3**
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **-DKO**
Fitting body supplied with swivel nuts and O-rings

Spare Parts / Accessories



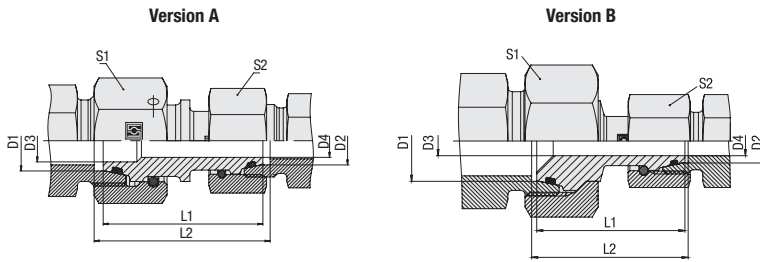
O-Ring
Type **O-RING**

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| Series | Tube OD | | PN (bar/psi) | Dimensions (mm/in) | | | | | | Version | Weight (kg/lbs) Ca. per 100 | Ordering Codes |
|--------|---------|------|-----------------|-----------------------|------|------|------|------|------|---------|-----------------------------------|------------------------|
| | D1 | D2 | | D3 | D4 | L1 | L2 | S1 | S2 | | | |
| L | 8 L | 6 L | 500 | 3 | 3 | 34 | 36 | 17 | 14 | A | 4,72 | FI-SNV-08/06L-B-W3-DKO |
| | | | 7250 | .12 | .12 | 1.34 | 1.42 | .67 | .55 | | 10.38 | |
| | 10 L | 6 L | 500 | 3 | 3 | 35 | 36,5 | 19 | 14 | A | 5,50 | FI-SNV-10/06L-B-W3-DKO |
| | | | 7250 | .12 | .12 | 1.38 | 1.44 | .75 | .55 | | 12.10 | |
| | 10 L | 8 L | 500 | 5 | 5 | 35 | 36,5 | 19 | 17 | A | 5,21 | FI-SNV-10/08L-B-W3-DKO |
| | | | 7250 | .20 | .20 | 1.38 | 1.44 | .75 | .67 | | 11.47 | |
| | 12 L | 6 L | 400 | 3 | 3 | 35 | 36,5 | 22 | 14 | B | 18,04 | FI-SNV-12/06L-B-W3-DKO |
| | | | 5800 | .12 | .12 | 1.38 | 1.44 | .87 | .55 | | 39.68 | |
| | 12 L | 8 L | 400 | 5 | 5 | 36 | 37,5 | 22 | 17 | B | 6,22 | FI-SNV-12/08L-B-W3-DKO |
| | | | 5800 | .20 | .20 | 1.42 | 1.48 | .87 | .67 | | 13.69 | |
| | 12 L | 10 L | 400 | 6,5 | 6,5 | 36,5 | 37,5 | 22 | 19 | A | 6,96 | FI-SNV-12/10L-B-W3-DKO |
| | | | 5800 | .26 | .26 | 1.44 | 1.48 | .87 | .75 | | 15.31 | |
| | 15 L | 8 L | 400 | 5 | 5 | 36,5 | 38 | 27 | 17 | B | 1,96 | FI-SNV-15/08L-B-W3-DKO |
| | | | 5800 | .20 | .20 | 1.44 | 1.50 | 1.06 | .67 | | 4.30 | |
| | 15 L | 10 L | 400 | 6,5 | 6,5 | 37,5 | 38,5 | 27 | 19 | B | 4,40 | FI-SNV-15/10L-B-W3-DKO |
| | | | 5800 | .26 | .26 | 1.48 | 1.52 | 1.06 | .75 | | 9.69 | |
| | 15 L | 12 L | 400 | 8 | 8 | 44 | 45 | 27 | 22 | A | 11,69 | FI-SNV-15/12L-B-W3-DKO |
| | | | 5800 | .31 | .31 | 1.73 | 1.77 | 1.06 | .87 | | 25.73 | |
| | 18 L | 10 L | 400 | 6,5 | 6,5 | 38 | 39,5 | 32 | 19 | B | 12,68 | FI-SNV-18/10L-B-W3-DKO |
| | | | 5800 | .26 | .26 | 1.50 | 1.56 | 1.26 | .75 | | 27.89 | |
| | 18 L | 12 L | 400 | 8 | 8 | 38 | 39,5 | 32 | 22 | B | 13,51 | FI-SNV-18/12L-B-W3-DKO |
| | | | 5800 | .31 | .31 | 1.50 | 1.56 | 1.26 | .87 | | 29.72 | |
| | 18 L | 15 L | 400 | 11 | 11 | 45 | 46,5 | 32 | 27 | A | 16,60 | FI-SNV-18/15L-B-W3-DKO |
| | | | 5800 | .43 | .43 | 1.77 | 1.83 | 1.26 | 1.06 | | 36.51 | |
| 22 L | 12 L | 250 | 8 | 8 | 40,5 | 42 | 36 | 22 | B | 17,52 | FI-SNV-22/12L-B-W3-DKO | |
| | | 3625 | .31 | .31 | 1.59 | 1.65 | 1.42 | .87 | | 38.55 | | |
| 22 L | 15 L | 250 | 11 | 11 | 42 | 43,5 | 36 | 27 | B | 19,83 | FI-SNV-22/15L-B-W3-DKO | |
| | | 3625 | .43 | .43 | 1.65 | 1.71 | 1.42 | 1.06 | | 43.63 | | |
| 22 L | 18 L | 250 | 13 | 13 | 45 | 47 | 36 | 32 | A | 23,35 | FI-SNV-22/18L-B-W3-DKO | |
| | | 3625 | .51 | .51 | 1.77 | 1.85 | 1.42 | 1.26 | | 51.37 | | |
| 28 L | 15 L | 250 | 11 | 11 | 43 | 44,5 | 41 | 27 | B | 23,86 | FI-SNV-28/15L-B-W3-DKO | |
| | | 3625 | .43 | .43 | 1.69 | 1.75 | 1.61 | 1.06 | | 52.50 | | |
| 28 L | 18 L | 250 | 13 | 13 | 45 | 47 | 41 | 32 | B | 26,44 | FI-SNV-28/18L-B-W3-DKO | |
| | | 3625 | .51 | .51 | 1.77 | 1.85 | 1.61 | 1.26 | | 58.16 | | |
| 28 L | 22 L | 250 | 17 | 17 | 46 | 48 | 41 | 36 | B | 28,93 | FI-SNV-28/22L-B-W3-DKO | |
| | | 3625 | .67 | .67 | 1.81 | 1.89 | 1.61 | 1.42 | | 63.65 | | |
| 35 L | 18 L | 250 | 13 | 13 | 48 | 51,5 | 50 | 32 | B | 39,52 | FI-SNV-35/18L-B-W3-DKO | |
| | | 3625 | .51 | .51 | 1.89 | 2.03 | 1.97 | 1.26 | | 86.94 | | |
| 35 L | 22 L | 250 | 17 | 17 | 49,5 | 53 | 50 | 36 | B | 41,34 | FI-SNV-35/22L-B-W3-DKO | |
| | | 3625 | .67 | .67 | 1.95 | 2.09 | 1.97 | 1.42 | | 90.95 | | |
| 35 L | 28 L | 250 | 23 | 23 | 50 | 53,5 | 50 | 41 | B | 40,71 | FI-SNV-35/28L-B-W3-DKO | |
| | | 3625 | .91 | .91 | 1.97 | 2.11 | 1.97 | 1.61 | | 89.57 | | |
| 42 L | 22 L | 250 | 17 | 17 | 49,5 | 53,5 | 60 | 36 | B | 56,50 | FI-SNV-42/22L-B-W3-DKO | |
| | | 3625 | .67 | .67 | 1.95 | 2.11 | 2.36 | 1.42 | | 124.30 | | |
| 42 L | 28 L | 250 | 23 | 23 | 50 | 54 | 60 | 41 | B | 56,10 | FI-SNV-42/28L-B-W3-DKO | |
| | | 3625 | .91 | .91 | 1.97 | 2.13 | 2.36 | 1.61 | | 123.42 | | |
| 42 L | 35 L | 250 | 28 | 28 | 53 | 58,5 | 60 | 50 | B | 60,70 | FI-SNV-42/35L-B-W3-DKO | |
| | | 3625 | 1.10 | 1.10 | 2.09 | 2.30 | 2.36 | 1.97 | | 133.54 | | |

Standard seal material is NBR (Buna-N®).



**Straight Reducer with 24° Taper / O-Ring
Type FI-SNV - Series S**


| Series | Tube OD (mm/in) | | PN (bar/psi) | Dimensions (mm/in) | | | | | | Version | Weight (kg/lbs) ca. per 100 | Ordering Codes |
|--------|--------------------|------|-----------------|-----------------------|-----|------|------|------|------|---------|-----------------------------------|-------------------------|
| | D1 | D2 | | D3 | D4 | L1 | L2 | S1 | S2 | | | |
| S | 6S | 6L | 500 | 3 | 3 | 35,5 | 37 | 17 | 14 | A | 3,70 | FI-SNV-06S/06L-B-W3-DKO |
| | | | 7250 | .12 | .12 | 1.40 | 1.46 | .67 | .55 | | 8.14 | |
| 8 S | 8 L | 8 L | 500 | 4 | 4 | 35,5 | 36,5 | 17 | 19 | A | 5,27 | FI-SNV-08S/08L-B-W3-DKO |
| | | | 7250 | .16 | .16 | 1.40 | 1.44 | .67 | .75 | | 11.60 | |
| 10 S | 6 S | 6 S | 800 | 3 | 3 | 40,5 | 42,5 | 22 | 17 | A | 6,30 | FI-SNV-10/06S-B-W3-DKO |
| | | | 11600 | .12 | .12 | 1.59 | 1.67 | .87 | .67 | | 13.86 | |
| 10 S | 8 S | 8 S | 800 | 4 | 4 | 39 | 41 | 22 | 19 | A | 7,60 | FI-SNV-10/08S-B-W3-DKO |
| | | | 11600 | .16 | .16 | 1.54 | 1.61 | .87 | .75 | | 16.72 | |
| 12 S | 6 S | 6 S | 630 | 3 | 3 | 39 | 43 | 24 | 17 | B | 7,79 | FI-SNV-12/06S-B-W3-DKO |
| | | | 9135 | .12 | .12 | 1.54 | 1.69 | .94 | .67 | | 17.13 | |
| 12 S | 8 S | 8 S | 630 | 4 | 4 | 44 | 46 | 24 | 19 | A | 9,42 | FI-SNV-12/08S-B-W3-DKO |
| | | | 9135 | .16 | .16 | 1.73 | 1.81 | .94 | .75 | | 20.72 | |
| 12 S | 10 S | 10 S | 630 | 6,5 | 6,5 | 41,5 | 43,5 | 24 | 22 | A | 9,73 | FI-SNV-12/10S-B-W3-DKO |
| | | | 9135 | .26 | .26 | 1.63 | 1.71 | .94 | .87 | | 21.40 | |
| 16 S | 10 S | 10 S | 630 | 6,5 | 6,5 | 43,5 | 46,5 | 30 | 22 | B | 14,11 | FI-SNV-16/10S-B-W3-DKO |
| | | | 9135 | .26 | .26 | 1.71 | 1.83 | 1.18 | .87 | | 31.03 | |
| 16 S | 12 S | 12 S | 630 | 8 | 8 | 47,5 | 50,5 | 30 | 24 | A | 15,32 | FI-SNV-16/12S-B-W3-DKO |
| | | | 9135 | .31 | .31 | 1.87 | 1.99 | 1.18 | .94 | | 33.70 | |
| 20 S | 12 S | 12 S | 400 | 8 | 8 | 48,5 | 52 | 36 | 24 | B | 21,90 | FI-SNV-20/12S-B-W3-DKO |
| | | | 5800 | .31 | .31 | 1.91 | 2.05 | 1.42 | .94 | | 48.18 | |
| 20 S | 16 S | 16 S | 400 | 11 | 11 | 52,5 | 57 | 36 | 30 | A | 24,68 | FI-SNV-20/16S-B-W3-DKO |
| | | | 5800 | .43 | .43 | 2.07 | 2.24 | 1.42 | 1.18 | | 54.30 | |
| 25 S | 16 S | 16 S | 400 | 11 | 11 | 52 | 58 | 46 | 30 | A | 34,02 | FI-SNV-25/16S-B-W3-DKO |
| | | | 5800 | .43 | .43 | 2.05 | 2.28 | 1.81 | 1.18 | | 74.84 | |
| 25 S | 20 S | 20 S | 400 | 14 | 14 | 58 | 64,5 | 46 | 36 | A | 39,77 | FI-SNV-25/20S-B-W3-DKO |
| | | | 5800 | .55 | .55 | 2.28 | 2.54 | 1.81 | 1.42 | | 87.49 | |
| 30 S | 16 S | 16 S | 400 | 11 | 11 | 54 | 61,5 | 50 | 30 | B | 47,00 | FI-SNV-30/16S-B-W3-DKO |
| | | | 5800 | .43 | .43 | 2.13 | 2.42 | 1.97 | 1.18 | | 103.40 | |
| 30 S | 20 S | 20 S | 400 | 14 | 14 | 58,5 | 66,5 | 50 | 36 | B | 51,00 | FI-SNV-30/20S-B-W3-DKO |
| | | | 5800 | .55 | .55 | 2.30 | 2.62 | 1.97 | 1.42 | | 112.20 | |
| 30 S | 25 S | 25 S | 400 | 17 | 17 | 60 | 69,5 | 50 | 46 | A | 56,80 | FI-SNV-30/25S-B-W3-DKO |
| | | | 5800 | .67 | .67 | 2.36 | 2.74 | 1.97 | 1.81 | | 124.96 | |
| 38 S | 20 S | 20 S | 400 | 14 | 14 | 61 | 71,5 | 60 | 36 | B | 71,30 | FI-SNV-38/20S-B-W3-DKO |
| | | | 5800 | .55 | .55 | 2.40 | 2.81 | 2.36 | 1.42 | | 156.86 | |
| 38 S | 25 S | 25 S | 400 | 17 | 17 | 62,5 | 74,5 | 60 | 46 | B | 80,70 | FI-SNV-38/25S-B-W3-DKO |
| | | | 5800 | .67 | .67 | 2.46 | 2.93 | 2.36 | 1.81 | | 177.54 | |
| 38 S | 30 S | 30 S | 400 | 22 | 22 | 64,5 | 78 | 60 | 50 | A | 76,90 | FI-SNV-38/30S-B-W3-DKO |
| | | | 5800 | .87 | .87 | 2.54 | 3.07 | 2.36 | 1.97 | | 169.18 | |

Standard seal material is NBR (Buna-N®).

Ordering Codes

***FI-SNV*-10/*08*L*-B*-W3*-DKO**

- * Straight Reducer with 24° Taper / O-Ring (DKO) FI-SNV
- * Outside Tube Diameter D1 (in mm) -10
- * Outside Tube Diameter D2 (in mm) 08
- * Series L
Light Series (page 120)
S
Heavy Series (page 121)
- * Seal Material -B
NBR (Buna-N®)
-V
FKM (Viton®)
-E
EPDM
- * Material Code -W3
Steel, zinc/nickel-plated
- * Assembling / Kitting -DKO
Fitting body supplied with swivel nuts and O-rings

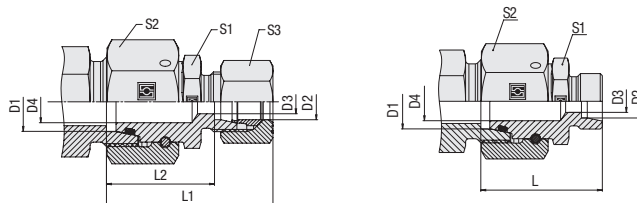
Spare Parts / Accessories


O-Ring
Type **O-RING**

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Straight Reducer for Tube Ends with 24° Taper / O-Ring Type FI-RESDS • Series L



Ordering Codes

***FI-RESDS*-10/*08*L*-B*-W3*-DKO*-MS**

* Straight Reducer for Tube Ends with 24° Taper / O-Ring (DKO) **FI-RESDS**

* Outside Tube Diameter D1 (in mm) **-10**

* Outside Tube Diameter D2 (in mm) **08**

* Series Light Series (pages 122/123) **L**
Heavy Series (pages 124/125) **S**

* Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**

* Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

* Assembling / Kitting Fitting body supplied with swivel nut and O-ring **-DKO**

Fitting body supplied with cutting ring and union nut **-MS**

Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

Spare Parts / Accessories

| | | |
|--|------------------------------|----------|
| | O-Ring Type O-RING | Page 207 |
|--|------------------------------|----------|

| Series | Tube OD (mm/in) | | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|------|-----------------|-----------------------|------|------|----------------|------|------|------|-------|------------------------------|--|-----------------------------|
| | D1 | D2 | | D3 | D4 | L | L ¹ | L2 | S1 | S2 | S3 | | | |
| L | 8 | 6 | 500 | 4 | 4 | 30 | 38 | 23,5 | 12 | 17 | 14 | 3,01 | FI-RESDS-08/06L-B-W3-DKO | |
| | .31 | .24 | 7250 | .16 | .16 | 1.18 | 1.50 | .93 | .47 | .67 | .55 | 6,61 | FI-RESDS-10/06L-B-W3-DKO | |
| | 10 | 6 | 500 | 4 | 4 | 32 | 40 | 25 | 14 | 19 | 14 | 3,80 | FI-RESDS-10/08L-B-W3-DKO | |
| | .39 | .24 | 7250 | .16 | .16 | 1.26 | 1.57 | .98 | .55 | .75 | .55 | 8,36 | FI-RESDS-12/06L-B-W3-DKO | |
| | 10 | 8 | 500 | 6 | 6 | 32 | 40 | 25 | 14 | 19 | 17 | 3,99 | FI-RESDS-12/08L-B-W3-DKO | |
| | .39 | .31 | 7250 | .24 | .24 | 1.26 | 1.57 | .98 | .55 | .75 | .67 | 8,78 | FI-RESDS-12/10L-B-W3-DKO | |
| | 12 | 6 | 400 | 4 | 4 | 32 | 40 | 25 | 17 | 22 | 14 | 5,69 | FI-RESDS-15/06L-B-W3-DKO | |
| | .47 | .24 | 5800 | .16 | .16 | 1.26 | 1.57 | .98 | .67 | .87 | .55 | 12,52 | FI-RESDS-15/08L-B-W3-DKO | |
| | 12 | 8 | 400 | 6 | 6 | 32 | 40 | 25 | 17 | 22 | 17 | 5,53 | FI-RESDS-15/10L-B-W3-DKO | |
| | .47 | .31 | 5800 | .24 | .24 | 1.26 | 1.57 | .98 | .67 | .87 | .67 | 12,17 | FI-RESDS-15/12L-B-W3-DKO | |
| | 12 | 10 | 400 | 8 | 8 | 33 | 41 | 26 | 17 | 22 | 19 | 5,33 | FI-RESDS-18/06L-B-W3-DKO | |
| | .47 | .39 | 5800 | .31 | .31 | 1.30 | 1.61 | 1.02 | .67 | .87 | .75 | 11,72 | FI-RESDS-18/08L-B-W3-DKO | |
| | 15 | 6 | 400 | 4 | 11 | 35 | 43 | 29 | 22 | 27 | 14 | 8,83 | FI-RESDS-18/10L-B-W3-DKO | |
| | .59 | .24 | 5800 | .16 | .43 | 1.38 | 1.69 | 1.14 | .87 | 1.06 | .55 | 19,43 | FI-RESDS-18/12L-B-W3-DKO | |
| | 15 | 8 | 400 | 6 | 11 | 35 | 43 | 29 | 22 | 27 | 17 | 9,08 | FI-RESDS-18/15L-B-W3-DKO | |
| | .59 | .31 | 5800 | .24 | .43 | 1.38 | 1.69 | 1.14 | .87 | 1.06 | .67 | 19,98 | FI-RESDS-22/06L-B-W3-DKO | |
| | 15 | 10 | 400 | 8 | 8 | 35 | 43 | 30 | 22 | 27 | 19 | 9,61 | FI-RESDS-22/08L-B-W3-DKO | |
| | .59 | .39 | 5800 | .31 | .31 | 1.38 | 1.69 | 1.18 | .87 | 1.06 | .75 | 21,14 | FI-RESDS-22/10L-B-W3-DKO | |
| | 15 | 12 | 400 | 10 | 10 | 36 | 44 | 30 | 22 | 27 | 22 | 9,25 | FI-RESDS-22/12L-B-W3-DKO | |
| | .59 | .47 | 5800 | .39 | .39 | 1.42 | 1.73 | 1.18 | .87 | 1.06 | .87 | 20,35 | FI-RESDS-22/15L-B-W3-DKO | |
| | 18 | 6 | 400 | 4 | 13 | 35 | 43 | 28 | 24 | 32 | 14 | 11,07 | FI-RESDS-22/18L-B-W3-DKO | |
| | .71 | .24 | 5800 | .16 | .51 | 1.38 | 1.69 | 1.10 | .94 | 1.26 | .55 | 24,36 | FI-RESDS-28/06L-B-W3-DKO | |
| | 18 | 8 | 400 | 6 | 13 | 35 | 43 | 28 | 24 | 32 | 17 | 7,57 | FI-RESDS-28/08L-B-W3-DKO | |
| | .71 | .31 | 5800 | .24 | .51 | 1.38 | 1.69 | 1.10 | .94 | 1.26 | .67 | 16,66 | FI-RESDS-28/10L-B-W3-DKO | |
| | 18 | 10 | 400 | 8 | 8 | 36 | 44 | 29 | 24 | 32 | 19 | 12,64 | FI-RESDS-28/12L-B-W3-DKO | |
| | .71 | .39 | 5800 | .31 | .31 | 1.42 | 1.73 | 1.14 | .94 | 1.26 | .75 | 27,81 | FI-RESDS-28/15L-B-W3-DKO | |
| | 18 | 12 | 400 | 10 | 10 | 36 | 44 | 29 | 24 | 32 | 22 | 12,24 | FI-RESDS-28/18L-B-W3-DKO | |
| | .71 | .47 | 5800 | .39 | .39 | 1.42 | 1.73 | 1.14 | .94 | 1.26 | .87 | 26,93 | FI-RESDS-28/22L-B-W3-DKO | |
| 18 | 15 | 400 | 12 | 12 | 37 | 45 | 30 | 24 | 32 | 27 | 12,27 | FI-RESDS-28/28/06L-B-W3-DKO | | |
| .71 | .59 | 5800 | .47 | .47 | 1.46 | 1.77 | 1.18 | .94 | 1.26 | 1.06 | 26,99 | FI-RESDS-28/28/08L-B-W3-DKO | | |
| 22 | 6 | 250 | 4 | 17 | 38 | 47 | 32 | 27 | 36 | 14 | 16,34 | FI-RESDS-28/28/10L-B-W3-DKO | | |
| .87 | .24 | 3625 | .16 | .67 | 1.50 | 1.85 | 1.26 | 1.06 | 1.42 | .55 | 35,96 | FI-RESDS-28/28/12L-B-W3-DKO | | |
| 22 | 8 | 250 | 6 | 17 | 38 | 47 | 32 | 27 | 36 | 17 | 16,27 | FI-RESDS-28/28/15L-B-W3-DKO | | |
| .87 | .31 | 3625 | .24 | .67 | 1.50 | 1.85 | 1.26 | 1.06 | 1.42 | .67 | 35,80 | FI-RESDS-28/28/18L-B-W3-DKO | | |
| 22 | 10 | 250 | 8 | 17 | 39 | 48 | 33 | 27 | 36 | 19 | 16,33 | FI-RESDS-28/28/22L-B-W3-DKO | | |
| .87 | .39 | 3625 | .31 | .67 | 1.54 | 1.89 | 1.30 | 1.06 | 1.42 | .75 | 35,92 | FI-RESDS-28/28/28L-B-W3-DKO | | |
| 22 | 12 | 250 | 10 | 17 | 39 | 48 | 33 | 27 | 36 | 22 | 16,30 | FI-RESDS-28/28/36L-B-W3-DKO | | |
| .87 | .47 | 3625 | .39 | .67 | 1.54 | 1.89 | 1.30 | 1.06 | 1.42 | .87 | 35,87 | FI-RESDS-28/28/42L-B-W3-DKO | | |
| 22 | 15 | 250 | 12 | 12 | 40 | 49 | 34 | 27 | 36 | 27 | 19,01 | FI-RESDS-28/28/48L-B-W3-DKO | | |
| .87 | .59 | 3625 | .47 | .47 | 1.57 | 1.93 | 1.34 | 1.06 | 1.42 | 1.06 | 41,82 | FI-RESDS-28/28/54L-B-W3-DKO | | |
| 22 | 18 | 250 | 15 | 15 | 41 | 50 | 34 | 27 | 36 | 32 | 18,13 | FI-RESDS-28/28/60L-B-W3-DKO | | |
| .87 | .71 | 3625 | .59 | .59 | 1.61 | 1.97 | 1.34 | 1.06 | 1.42 | 1.26 | 39,89 | FI-RESDS-28/28/66L-B-W3-DKO | | |
| 28 | 6 | 250 | 4 | 23 | 40 | 49 | 34 | 36 | 41 | 14 | 22,90 | FI-RESDS-28/28/72L-B-W3-DKO | | |
| 1.10 | .24 | 3625 | .16 | .91 | 1.57 | 1.93 | 1.34 | 1.42 | 1.61 | .55 | 50,37 | FI-RESDS-28/28/78L-B-W3-DKO | | |
| 28 | 8 | 250 | 6 | 23 | 40 | 49 | 34 | 36 | 41 | 17 | 20,95 | FI-RESDS-28/28/84L-B-W3-DKO | | |
| 1.10 | .31 | 3625 | .24 | .91 | 1.57 | 1.93 | 1.34 | 1.42 | 1.61 | .67 | 46,09 | FI-RESDS-28/28/90L-B-W3-DKO | | |
| 28 | 10 | 250 | 8 | 23 | 41 | 50 | 35 | 36 | 41 | 19 | 21,74 | FI-RESDS-28/28/96L-B-W3-DKO | | |
| 1.10 | .39 | 3625 | .31 | .91 | 1.61 | 1.97 | 1.38 | 1.42 | 1.61 | .75 | 47,83 | FI-RESDS-28/28/102L-B-W3-DKO | | |
| 28 | 12 | 250 | 10 | 23 | 41 | 50 | 35 | 36 | 41 | 22 | 10,22 | FI-RESDS-28/28/108L-B-W3-DKO | | |
| 1.10 | .47 | 3625 | .39 | .91 | 1.61 | 1.97 | 1.38 | 1.42 | 1.61 | .87 | 22,49 | FI-RESDS-28/28/114L-B-W3-DKO | | |
| 28 | 15 | 250 | 12 | 23 | 42 | 51 | 36 | 36 | 41 | 27 | 18,85 | FI-RESDS-28/28/120L-B-W3-DKO | | |
| 1.10 | .59 | 3625 | .47 | .91 | 1.65 | 2.01 | 1.42 | 1.42 | 1.61 | 1.06 | 41,47 | FI-RESDS-28/28/126L-B-W3-DKO | | |
| 28 | 18 | 250 | 15 | 23 | 43 | 52 | 36 | 36 | 41 | 32 | 22,50 | FI-RESDS-28/28/132L-B-W3-DKO | | |
| 1.10 | .71 | 3625 | .59 | .91 | 1.69 | 2.05 | 1.42 | 1.42 | 1.61 | 1.26 | 49,50 | FI-RESDS-28/28/138L-B-W3-DKO | | |
| 28 | 22 | 250 | 19 | 23 | 45 | 54 | 38 | 36 | 41 | 36 | 22,80 | FI-RESDS-28/28/144L-B-W3-DKO | | |
| 1.10 | .87 | 3625 | .75 | .91 | 1.77 | 2.13 | 1.50 | 1.42 | 1.61 | 1.42 | 50,16 | FI-RESDS-28/28/150L-B-W3-DKO | | |

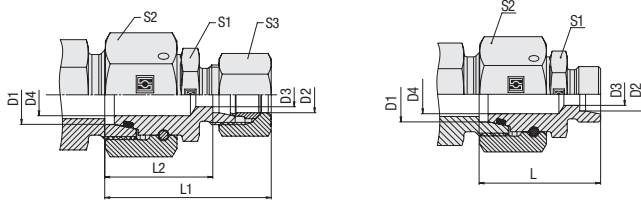
¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).



**Straight Reducer for Tube Ends with 24° Taper / O-Ring
Type FI-RESDS • Series L**


| Series | Tube OD (mm/in) | | PN (bar/psi) | Dimensions (mm/in) | | | | | | | Weight (*10/100) ca. per 100 ² | Ordering Codes ³ | |
|--------|--------------------|------|-----------------|-----------------------|------|------|-----------------|------|------|------|---|-----------------------------|--------------------------|
| | D1 | D2 | | D3 | D4 | L | L1 ¹ | L2 | S1 | S2 | | | S3 |
| L | 35 | 6 | 250 | 4 | 28 | 41 | 52 | 37 | 46 | 50 | 14 | 7,82 | FI-RESDS-35/06L-B-W3-DKO |
| | 1.38 | .24 | 3625 | .16 | 1.10 | 1.61 | 2.05 | 1.46 | 1.81 | 1.97 | .55 | 17.20 | |
| | 35 | 8 | 250 | 6 | 28 | 41 | 52 | 37 | 46 | 50 | 17 | 35,43 | FI-RESDS-35/08L-B-W3-DKO |
| | 1.38 | .31 | 3625 | .24 | 1.10 | 1.61 | 2.05 | 1.46 | 1.81 | 1.97 | .67 | 77.95 | |
| | 35 | 10 | 250 | 8 | 28 | 42 | 53 | 38 | 46 | 50 | 19 | 35,35 | FI-RESDS-35/10L-B-W3-DKO |
| | 1.38 | .39 | 3625 | .31 | 1.10 | 1.65 | 2.09 | 1.50 | 1.81 | 1.97 | .75 | 77.77 | |
| | 35 | 12 | 250 | 10 | 28 | 42 | 53 | 38 | 46 | 50 | 22 | 33,34 | FI-RESDS-35/12L-B-W3-DKO |
| | 1.38 | .47 | 3625 | .39 | 1.10 | 1.65 | 2.09 | 1.50 | 1.81 | 1.97 | .87 | 73.34 | |
| | 35 | 15 | 250 | 12 | 28 | 43 | 54 | 39 | 46 | 50 | 27 | 15,22 | FI-RESDS-35/15L-B-W3-DKO |
| | 1.38 | .59 | 3625 | .47 | 1.10 | 1.69 | 2.13 | 1.54 | 1.81 | 1.97 | 1.06 | 33.49 | |
| | 35 | 18 | 250 | 15 | 28 | 44 | 55 | 39 | 46 | 50 | 32 | 34,32 | FI-RESDS-35/18L-B-W3-DKO |
| | 1.38 | .71 | 3625 | .59 | 1.10 | 1.73 | 2.17 | 1.54 | 1.81 | 1.97 | 1.26 | 75.50 | |
| | 35 | 22 | 250 | 19 | 28 | 46 | 57 | 41 | 46 | 50 | 36 | 34,80 | FI-RESDS-35/22L-B-W3-DKO |
| | 1.38 | .87 | 3625 | .75 | 1.10 | 1.81 | 2.24 | 1.61 | 1.81 | 1.97 | 1.42 | 76.57 | |
| | 35 | 28 | 250 | 24 | 24 | 46 | 57 | 41 | 46 | 50 | 41 | 38,10 | FI-RESDS-35/28L-B-W3-DKO |
| | 1.38 | 1.10 | 3625 | .94 | .94 | 1.81 | 2.24 | 1.61 | 1.81 | 1.97 | 1.61 | 83.82 | |
| | 42 | 6 | 250 | 4 | 35 | 36 | 48 | 41 | 50 | 60 | 14 | 52,66 | FI-RESDS-42/06L-B-W3-DKO |
| | 1.65 | .24 | 3625 | .16 | 1.38 | 1.42 | 1.89 | 1.61 | 1.97 | 2.36 | .55 | 115.85 | |
| | 42 | 8 | 250 | 6 | 35 | 36 | 48 | 41 | 50 | 60 | 17 | 52,58 | FI-RESDS-42/08L-B-W3-DKO |
| | 1.65 | .31 | 3625 | .24 | 1.38 | 1.42 | 1.89 | 1.61 | 1.97 | 2.36 | .67 | 115.67 | |
| | 42 | 10 | 250 | 8 | 35 | 44 | 56 | 42 | 50 | 60 | 19 | 52,58 | FI-RESDS-42/10L-B-W3-DKO |
| | 1.65 | .39 | 3625 | .31 | 1.38 | 1.73 | 2.20 | 1.65 | 1.97 | 2.36 | .75 | 115.68 | |
| | 42 | 12 | 250 | 10 | 35 | 44 | 56 | 42 | 50 | 60 | 22 | 52,60 | FI-RESDS-42/12L-B-W3-DKO |
| | 1.65 | .47 | 3625 | .39 | 1.38 | 1.73 | 2.20 | 1.65 | 1.97 | 2.36 | .87 | 115.72 | |
| | 42 | 15 | 250 | 12 | 35 | 46 | 58 | 43 | 50 | 60 | 27 | 52,30 | FI-RESDS-42/15L-B-W3-DKO |
| | 1.65 | .59 | 3625 | .47 | 1.38 | 1.81 | 2.28 | 1.69 | 1.97 | 2.36 | 1.06 | 115.06 | |
| | 42 | 18 | 250 | 15 | 35 | 46 | 58 | 42 | 50 | 60 | 32 | 52,00 | FI-RESDS-42/18L-B-W3-DKO |
| | 1.65 | .71 | 3625 | .59 | 1.38 | 1.81 | 2.28 | 1.65 | 1.97 | 2.36 | 1.26 | 114.40 | |
| | 42 | 22 | 250 | 19 | 35 | 48 | 60 | 44 | 50 | 60 | 36 | 50,10 | FI-RESDS-42/22L-B-W3-DKO |
| | 1.65 | .87 | 3625 | .75 | 1.38 | 1.89 | 2.36 | 1.73 | 1.97 | 2.36 | 1.42 | 110.21 | |
| | 42 | 28 | 250 | 24 | 35 | 49 | 61 | 44 | 50 | 60 | 41 | 50,19 | FI-RESDS-42/28L-B-W3-DKO |
| | 1.65 | 1.10 | 3625 | .94 | 1.38 | 1.93 | 2.40 | 1.73 | 1.97 | 2.36 | 1.61 | 110.43 | |
| | 42 | 35 | 250 | 30 | 30 | 53 | 65 | 43 | 50 | 60 | 50 | 55,90 | FI-RESDS-42/35L-B-W3-DKO |
| | 1.65 | 1.38 | 3625 | 1.18 | 1.18 | 2.09 | 2.56 | 1.69 | 1.97 | 2.36 | 1.97 | 122.98 | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).

Ordering Codes
***FI-RESDS*-10/*08*L*-B*-W3*-DKO*-MS**

 * Straight Reducer for Tube Ends with 24° Taper / O-Ring (DKO) **FI-RESDS**

 * Outside Tube Diameter D1 (in mm) **-10**

 * Outside Tube Diameter D2 (in mm) **08**

 * Series Light Series (pages 122/123) **L**
 Heavy Series (pages 124/125) **S**

 * Seal Material NBR (Buna-N®) **-B**
 FKM (Viton®) **-V**
 EPDM **-E**

 * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

 * Assembling / Kitting Fitting body supplied with swivel nut and O-ring **-DKO**

 Fitting body supplied with cutting ring and union nut **-MS**

 Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**
Connecting Parts

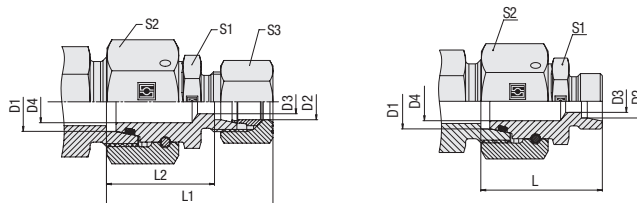
| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

Spare Parts / Accessories

| | | |
|--|------------------------------|----------|
| | O-Ring Type O-RING | Page 207 |
|--|------------------------------|----------|



Straight Reducer for Tube Ends with 24° Taper / O-Ring Type FI-RESDS • Series S



Ordering Codes

***FI-RESDS*-10/*08*S*-B*-W3*-DKO*-MS**

* Straight Reducer for Tube Ends with 24° Taper / O-Ring (DKO) **FI-RESDS**

* Outside Tube Diameter D1 (in mm) **-10**

* Outside Tube Diameter D2 (in mm) **08**

* Series Light Series (pages 122/123) **L**
Heavy Series (pages 124/125) **S**

* Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**

* Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

* Assembling / Kitting Fitting body supplied with swivel nut and O-ring **-DKO**

Fitting body supplied with cutting ring and union nut **-MS**

Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

Spare Parts / Accessories

| | | |
|--|------------------------------|----------|
| | O-Ring Type O-RING | Page 207 |
|--|------------------------------|----------|

| Series | Tube OD (mm/in) | | PN (bar/psi) | Dimensions (mm/in) | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | |
|--------|--------------------|------|-----------------|-----------------------|------|------|----------------|------|------|------|--|-----------------------------|--------------------------|
| | D1 | D2 | | D3 | D4 | L | L ¹ | L2 | S1 | S2 | | | S3 |
| S | 8 | 6 | 800 | 4 | 4 | 34 | 42 | 27 | 14 | 19 | 17 | 4,46 | FI-RESDS-08/06S-B-W3-DKO |
| | .31 | .24 | 11600 | .16 | .16 | 1.34 | 1.65 | 1.06 | .55 | .75 | .67 | 9.80 | FI-RESDS-10/06S-B-W3-DKO |
| | 10 | 6 | 800 | 4 | 4 | 33 | 42 | 27,5 | 17 | 22 | 17 | 5,93 | FI-RESDS-10/08S-B-W3-DKO |
| | .39 | .24 | 11600 | .16 | .16 | 1.30 | 1.65 | 1.08 | .67 | .87 | .67 | 13.05 | FI-RESDS-12/06S-B-W3-DKO |
| | 10 | 8 | 800 | 5 | 5 | 33 | 42 | 27,5 | 17 | 22 | 19 | 6,07 | FI-RESDS-12/08S-B-W3-DKO |
| | .39 | .31 | 11600 | .20 | .20 | 1.30 | 1.65 | 1.08 | .67 | .87 | .75 | 13.35 | FI-RESDS-12/10S-B-W3-DKO |
| | 12 | 6 | 630 | 4 | 4 | 33 | 44 | 29 | 19 | 24 | 17 | 7,96 | FI-RESDS-14/06S-B-W3-DKO |
| | .47 | .24 | 9135 | .16 | .16 | 1.30 | 1.73 | 1.14 | .75 | .94 | .67 | 17.52 | FI-RESDS-14/08S-B-W3-DKO |
| | 12 | 8 | 630 | 5 | 5 | 33 | 44 | 29 | 19 | 24 | 19 | 8,04 | FI-RESDS-14/10S-B-W3-DKO |
| | .47 | .31 | 9135 | .20 | .20 | 1.30 | 1.73 | 1.14 | .75 | .94 | .75 | 17.68 | FI-RESDS-14/12S-B-W3-DKO |
| | 12 | 10 | 630 | 7 | 7 | 35 | 46 | 29,5 | 19 | 24 | 22 | 7,90 | FI-RESDS-16/06S-B-W3-DKO |
| | .47 | .39 | 9135 | .28 | .28 | 1.38 | 1.81 | 1.16 | .75 | .94 | .87 | 17.38 | FI-RESDS-16/08S-B-W3-DKO |
| | 14 | 6 | 630 | 4 | 4 | 36 | 46 | 32 | 22 | 27 | 17 | 10,46 | FI-RESDS-16/10S-B-W3-DKO |
| | .55 | .24 | 9135 | .16 | .16 | 1.42 | 1.81 | 1.26 | .87 | 1.06 | .67 | 23.02 | FI-RESDS-16/12S-B-W3-DKO |
| | 14 | 8 | 630 | 5 | 5 | 36 | 46 | 32 | 22 | 27 | 19 | 10,53 | FI-RESDS-16/14S-B-W3-DKO |
| | .55 | .31 | 9135 | .20 | .20 | 1.42 | 1.81 | 1.26 | .87 | 1.06 | .75 | 23.16 | FI-RESDS-16/16S-B-W3-DKO |
| | 14 | 10 | 630 | 7 | 7 | 37 | 47 | 31 | 22 | 27 | 22 | 10,12 | FI-RESDS-16/18S-B-W3-DKO |
| | .55 | .39 | 9135 | .28 | .28 | 1.46 | 1.85 | 1.22 | .87 | 1.06 | .87 | 22.27 | FI-RESDS-16/20S-B-W3-DKO |
| | 14 | 12 | 630 | 8 | 8 | 37 | 47 | 31 | 22 | 27 | 24 | 10,44 | FI-RESDS-16/22S-B-W3-DKO |
| | .55 | .47 | 9135 | .31 | .31 | 1.46 | 1.85 | 1.22 | .87 | 1.06 | .94 | 22.97 | FI-RESDS-16/24S-B-W3-DKO |
| | 16 | 6 | 630 | 4 | 11 | 37 | 47 | 32 | 22 | 30 | 17 | 10,79 | FI-RESDS-16/26S-B-W3-DKO |
| | .63 | .24 | 9135 | .16 | .43 | 1.46 | 1.85 | 1.26 | .87 | 1.18 | .67 | 23.74 | FI-RESDS-16/28S-B-W3-DKO |
| | 16 | 8 | 630 | 5 | 11 | 37 | 47 | 32 | 22 | 30 | 19 | 11,04 | FI-RESDS-16/30S-B-W3-DKO |
| | .63 | .31 | 9135 | .20 | .43 | 1.46 | 1.85 | 1.26 | .87 | 1.18 | .75 | 24.29 | FI-RESDS-16/32S-B-W3-DKO |
| | 16 | 10 | 630 | 7 | 7 | 38 | 48 | 31,5 | 22 | 30 | 22 | 7,67 | FI-RESDS-16/34S-B-W3-DKO |
| | .63 | .39 | 9135 | .28 | .28 | 1.50 | 1.89 | 1.24 | .87 | 1.18 | .87 | 16.87 | FI-RESDS-16/36S-B-W3-DKO |
| | 16 | 12 | 630 | 8 | 8 | 38 | 48 | 31,5 | 22 | 30 | 24 | 12,07 | FI-RESDS-16/38S-B-W3-DKO |
| | .63 | .47 | 9135 | .31 | .31 | 1.50 | 1.89 | 1.24 | .87 | 1.18 | .94 | 26.55 | FI-RESDS-16/40S-B-W3-DKO |
| 16 | 14 | 630 | 10 | 10 | 41 | 51 | 33 | 24 | 30 | 27 | 12,64 | FI-RESDS-16/42S-B-W3-DKO | |
| .63 | .55 | 9135 | .39 | .39 | 1.61 | 2.01 | 1.30 | .94 | 1.18 | 1.06 | 27.80 | FI-RESDS-16/44S-B-W3-DKO | |
| 20 | 6 | 400 | 4 | 14 | 40 | 51 | 36 | 27 | 36 | 17 | 17,16 | FI-RESDS-20/06S-B-W3-DKO | |
| .79 | .24 | 5800 | .16 | .55 | 1.57 | 2.01 | 1.42 | 1.06 | 1.42 | .67 | 37.75 | FI-RESDS-20/08S-B-W3-DKO | |
| 20 | 8 | 400 | 5 | 14 | 40 | 51 | 36 | 27 | 36 | 19 | 17,61 | FI-RESDS-20/10S-B-W3-DKO | |
| .79 | .31 | 5800 | .20 | .55 | 1.57 | 2.01 | 1.42 | 1.06 | 1.42 | .75 | 38.74 | FI-RESDS-20/12S-B-W3-DKO | |
| 20 | 10 | 400 | 7 | 14 | 41 | 52 | 35,5 | 27 | 36 | 22 | 17,49 | FI-RESDS-20/14S-B-W3-DKO | |
| .79 | .39 | 5800 | .28 | .55 | 1.61 | 2.05 | 1.40 | 1.06 | 1.42 | .87 | 38.48 | FI-RESDS-20/16S-B-W3-DKO | |
| 20 | 12 | 400 | 8 | 14 | 41 | 52 | 35,5 | 27 | 36 | 24 | 17,76 | FI-RESDS-20/18S-B-W3-DKO | |
| .79 | .47 | 5800 | .31 | .55 | 1.61 | 2.05 | 1.40 | 1.06 | 1.42 | .94 | 39.08 | FI-RESDS-20/20S-B-W3-DKO | |
| 20 | 14 | 400 | 10 | 14 | 44 | 55 | 37 | 27 | 36 | 27 | 19,83 | FI-RESDS-20/22S-B-W3-DKO | |
| .79 | .55 | 5800 | .39 | .55 | 1.73 | 2.17 | 1.46 | 1.06 | 1.42 | 1.06 | 43.62 | FI-RESDS-20/24S-B-W3-DKO | |
| 20 | 16 | 400 | 12 | 12 | 44 | 55 | 36,5 | 27 | 36 | 30 | 19,34 | FI-RESDS-20/26S-B-W3-DKO | |
| .79 | .63 | 5800 | .47 | .47 | 1.73 | 2.17 | 1.44 | 1.06 | 1.42 | 1.18 | 42.56 | FI-RESDS-20/28S-B-W3-DKO | |
| 25 | 6 | 400 | 4 | 18 | 41 | 53 | 38,5 | 36 | 46 | 17 | 29,87 | FI-RESDS-25/06S-B-W3-DKO | |
| .98 | .24 | 5800 | .16 | .71 | 1.61 | 2.09 | 1.52 | 1.42 | 1.81 | .67 | 65.72 | FI-RESDS-25/08S-B-W3-DKO | |
| 25 | 8 | 400 | 5 | 18 | 41 | 53 | 38,5 | 36 | 46 | 19 | 30,39 | FI-RESDS-25/10S-B-W3-DKO | |
| .98 | .31 | 5800 | .20 | .71 | 1.61 | 2.09 | 1.52 | 1.42 | 1.81 | .75 | 66.85 | FI-RESDS-25/12S-B-W3-DKO | |
| 25 | 10 | 400 | 7 | 18 | 42 | 54 | 38 | 36 | 46 | 22 | 16,95 | FI-RESDS-25/14S-B-W3-DKO | |
| .98 | .39 | 5800 | .28 | .71 | 1.65 | 2.13 | 1.50 | 1.42 | 1.81 | .87 | 37.29 | FI-RESDS-25/16S-B-W3-DKO | |
| 25 | 12 | 400 | 8 | 18 | 42 | 54 | 38 | 36 | 46 | 24 | 30,41 | FI-RESDS-25/18S-B-W3-DKO | |
| .98 | .47 | 5800 | .31 | .71 | 1.65 | 2.13 | 1.50 | 1.42 | 1.81 | .94 | 66.91 | FI-RESDS-25/20S-B-W3-DKO | |
| 25 | 14 | 400 | 10 | 18 | 45 | 57 | 40 | 36 | 46 | 27 | 30,95 | FI-RESDS-25/22S-B-W3-DKO | |
| .98 | .55 | 5800 | .39 | .71 | 1.77 | 2.24 | 1.57 | 1.42 | 1.81 | 1.06 | 68.09 | FI-RESDS-25/24S-B-W3-DKO | |
| 25 | 16 | 400 | 12 | 18 | 45 | 57 | 39 | 36 | 46 | 30 | 30,29 | FI-RESDS-25/26S-B-W3-DKO | |
| .98 | .63 | 5800 | .47 | .71 | 1.77 | 2.24 | 1.54 | 1.42 | 1.81 | 1.18 | 66.65 | FI-RESDS-25/28S-B-W3-DKO | |
| 25 | 20 | 400 | 16 | 16 | 49 | 61 | 39 | 36 | 46 | 36 | 32,97 | FI-RESDS-25/30S-B-W3-DKO | |
| .98 | .79 | 5800 | .63 | .63 | 1.93 | 2.40 | 1.54 | 1.42 | 1.81 | 1.42 | 72.53 | FI-RESDS-25/32S-B-W3-DKO | |

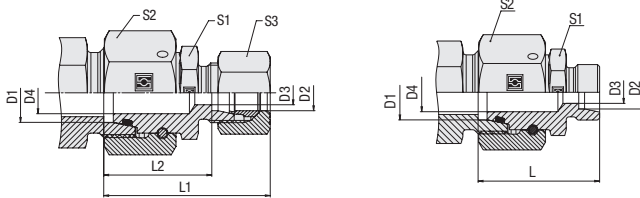
¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).



**Straight Reducer for Tube Ends with 24° Taper / O-Ring
Type FI-RESDS • Series S**


| Series | Tube OD (mm/in) | | PN (bar/psi) | Dimensions (mm/in) | | | | | | | Weight (¹⁹ lbs) ca. per 100 ² | Ordering Codes ³ | |
|--------|--------------------|------|-----------------|-----------------------|------|------|-----------------|------|------|------|--|-----------------------------|--------------------------|
| | D1 | D2 | | D3 | D4 | L | L1 ¹ | L2 | S1 | S2 | | | S3 |
| S | 30 | 6 | 400 | 4 | 22 | 46 | 59 | 44 | 41 | 50 | 17 | 37,93 | FI-RESDS-30/06S-B-W3-DKO |
| | 1.18 | .24 | 5800 | .16 | .87 | 1.81 | 2.32 | 1.73 | 1.61 | 1.97 | .67 | 83.45 | |
| | 30 | 8 | 400 | 5 | 22 | 46 | 59 | 44 | 41 | 50 | 19 | 31,17 | FI-RESDS-30/08S-B-W3-DKO |
| | 1.18 | .31 | 5800 | .20 | .87 | 1.81 | 2.32 | 1.73 | 1.61 | 1.97 | .75 | 68.57 | |
| | 30 | 10 | 400 | 7 | 22 | 47 | 60 | 43,5 | 41 | 50 | 22 | 38,28 | FI-RESDS-30/10S-B-W3-DKO |
| | 1.18 | .39 | 5800 | .28 | .87 | 1.85 | 2.36 | 1.71 | 1.61 | 1.97 | .87 | 84.22 | |
| | 30 | 12 | 400 | 8 | 22 | 47 | 60 | 43,5 | 41 | 50 | 24 | 38,65 | FI-RESDS-30/12S-B-W3-DKO |
| | 1.18 | .47 | 5800 | .31 | .87 | 1.85 | 2.36 | 1.71 | 1.61 | 1.97 | .94 | 85.03 | |
| | 30 | 14 | 400 | 10 | 22 | 50 | 63 | 45 | 41 | 50 | 27 | 38,88 | FI-RESDS-30/14S-B-W3-DKO |
| | 1.18 | .55 | 5800 | .39 | .87 | 1.97 | 2.48 | 1.77 | 1.61 | 1.97 | 1.06 | 85.53 | |
| | 30 | 16 | 400 | 12 | 22 | 50 | 63 | 44,5 | 41 | 50 | 30 | 38,59 | FI-RESDS-30/16S-B-W3-DKO |
| | 1.18 | .63 | 5800 | .47 | .87 | 1.97 | 2.48 | 1.75 | 1.61 | 1.97 | 1.18 | 84.89 | |
| | 30 | 20 | 400 | 16 | 22 | 53 | 66 | 44,5 | 41 | 50 | 36 | 39,86 | FI-RESDS-30/20S-B-W3-DKO |
| | 1.18 | .79 | 5800 | .63 | .87 | 2.09 | 2.60 | 1.75 | 1.61 | 1.97 | 1.42 | 87.69 | |
| | 30 | 25 | 400 | 20 | 20 | 56 | 69 | 45 | 41 | 50 | 46 | 42,96 | FI-RESDS-30/25S-B-W3-DKO |
| | 1.18 | .98 | 5800 | .79 | .79 | 2.20 | 2.72 | 1.77 | 1.61 | 1.97 | 1.81 | 94.51 | |
| | 38 | 6 | 400 | 4 | 30 | 47 | 62 | 47,5 | 50 | 60 | 17 | 55,50 | FI-RESDS-38/06S-B-W3-DKO |
| | 1.50 | .24 | 5800 | .16 | 1.18 | 1.85 | 2.44 | 1.87 | 1.97 | 2.36 | .67 | 122.10 | |
| | 38 | 8 | 400 | 5 | 30 | 47 | 62 | 47,5 | 50 | 60 | 19 | 55,50 | FI-RESDS-38/08S-B-W3-DKO |
| | 1.50 | .31 | 5800 | .20 | 1.18 | 1.85 | 2.44 | 1.87 | 1.97 | 2.36 | .75 | 122.10 | |
| | 38 | 10 | 400 | 7 | 30 | 48 | 63 | 47 | 50 | 60 | 22 | 56,40 | FI-RESDS-38/10S-B-W3-DKO |
| | 1.50 | .39 | 5800 | .28 | 1.18 | 1.89 | 2.48 | 1.85 | 1.97 | 2.36 | .87 | 124.08 | |
| | 38 | 12 | 400 | 8 | 30 | 48 | 63 | 47 | 50 | 60 | 24 | 55,50 | FI-RESDS-38/12S-B-W3-DKO |
| | 1.50 | .47 | 5800 | .31 | 1.18 | 1.89 | 2.48 | 1.85 | 1.97 | 2.36 | .94 | 122.10 | |
| | 38 | 14 | 400 | 10 | 30 | 51 | 66 | 49 | 50 | 60 | 27 | 62,87 | FI-RESDS-38/14S-B-W3-DKO |
| | 1.50 | .55 | 5800 | .39 | 1.18 | 2.01 | 2.60 | 1.93 | 1.97 | 2.36 | 1.06 | 138.32 | |
| | 38 | 16 | 400 | 12 | 30 | 51 | 66 | 48 | 50 | 60 | 30 | 55,80 | FI-RESDS-38/16S-B-W3-DKO |
| | 1.50 | .63 | 5800 | .47 | 1.18 | 2.01 | 2.60 | 1.89 | 1.97 | 2.36 | 1.18 | 122.76 | |
| | 38 | 20 | 400 | 16 | 30 | 55 | 70 | 48 | 50 | 60 | 36 | 57,40 | FI-RESDS-38/20S-B-W3-DKO |
| | 1.50 | .79 | 5800 | .63 | 1.18 | 2.17 | 2.76 | 1.89 | 1.97 | 2.36 | 1.42 | 126.28 | |
| | 38 | 25 | 400 | 20 | 30 | 58 | 73 | 48,5 | 50 | 60 | 46 | 59,30 | FI-RESDS-38/25S-B-W3-DKO |
| | 1.50 | .98 | 5800 | .79 | 1.18 | 2.28 | 2.87 | 1.91 | 1.97 | 2.36 | 1.81 | 130.46 | |
| | 38 | 30 | 400 | 25 | 25 | 61 | 76 | 49 | 50 | 60 | 50 | 63,70 | FI-RESDS-38/30S-B-W3-DKO |
| | 1.50 | 1.18 | 5800 | .98 | .98 | 2.40 | 2.99 | 1.93 | 1.97 | 2.36 | 1.97 | 140.14 | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).

Ordering Codes
***FI-RESDS*-10/*08*S*-B*-W3*-DKO*-MS**

 * Straight Reducer for Tube Ends with 24° Taper / O-Ring (DKO) **FI-RESDS**

 * Outside Tube Diameter D1 (in mm) **-10**

 * Outside Tube Diameter D2 (in mm) **08**

 * Series Light Series (pages 122/123) **L**
 Heavy Series (pages 124/125) **S**

 * Seal Material NBR (Buna-N®) **-B**
 FKM (Viton®) **-V**
 EPDM **-E**

 * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

 * Assembling / Kitting Fitting body supplied with swivel nut and O-ring **-DKO**

 Fitting body supplied with cutting ring and union nut **-MS**

 Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**
Connecting Parts

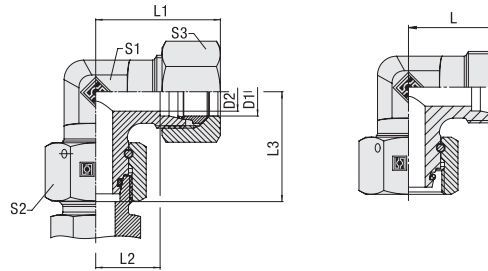
| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

Spare Parts / Accessories

| | | |
|--|------------------------------|----------|
| | O-Ring Type O-RING | Page 207 |
|--|------------------------------|----------|



Adjustable Elbow (90°) with 24° Taper / O-Ring
Type FI-EWD ▪ Series L / S



Ordering Codes

***FI-EWD*-10*L*-B*-W3*-DKO*-MS**

- * Adjustable Elbow (90°) with 24° Taper / O-Ring (DKO) **FI-EWD**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
 Light Series
S
 Heavy Series
- * Seal Material **-B**
 NBR (Buna-N®)
-V
 FKM (Viton®)
-E
 EPDM
- * Material Code **-W3**
 Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **-DKO**
 Fitting body supplied with swivel nut and O-ring
- MS**
 Fitting body supplied with cutting ring and union nut
- MSV**
 Fitting body supplied with soft-sealing cutting ring and union nut

H

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

Spare Parts / Accessories

- O-Ring
Type **O-RING** Page 207

| Series | Tube OD | PN | Dimensions | | | | | | | Weight (% _{ms}) ca. per 100 ² | Ordering Codes ³ | |
|--------|---------------|-------|------------|---------------|------|-----------------|------|------|------|--|-----------------------------|---------------------|
| | (mm/in) D1 | | (bar/psi) | (mm/in) D2 | L | L1 ¹ | L2 | L3 | S1 | | | S2 |
| L | 6 | 500 | 4 | 19 | 27 | 12 | 26 | 12 | 14 | 14 | 4,00 | FI-EWD-06L-B-W3-DKO |
| | .24 | 7250 | .16 | .75 | 1.06 | .47 | 1.02 | .47 | .55 | .55 | 8.81 | |
| | 8 | 500 | 6 | 21 | 29 | 14 | 27,5 | 12 | 17 | 17 | 4,03 | FI-EWD-08L-B-W3-DKO |
| | .31 | 7250 | .24 | .83 | 1.14 | .55 | 1.08 | .47 | .67 | .67 | 8.86 | |
| | 10 | 500 | 8 | 22 | 30 | 15 | 29 | 14 | 19 | 19 | 5,36 | FI-EWD-10L-B-W3-DKO |
| | .39 | 7250 | .31 | .87 | 1.18 | .59 | 1.14 | .55 | .75 | .75 | 11.78 | |
| | 12 | 400 | 10 | 24 | 32 | 17 | 29,5 | 17 | 22 | 22 | 7,60 | FI-EWD-12L-B-W3-DKO |
| | .47 | 5800 | .39 | .94 | 1.26 | .67 | 1.16 | .67 | .87 | .87 | 16.72 | |
| | 15 | 400 | 12 | 28 | 36 | 21 | 32,5 | 19 | 27 | 27 | 12,50 | FI-EWD-15L-B-W3-DKO |
| | .59 | 5800 | .47 | 1.10 | 1.42 | .83 | 1.28 | .75 | 1.06 | 1.06 | 27.50 | |
| | 18 | 400 | 15 | 31 | 40 | 23,5 | 35,5 | 24 | 32 | 32 | 18,23 | FI-EWD-18L-B-W3-DKO |
| | .71 | 5800 | .59 | 1.22 | 1.57 | .93 | 1.40 | .94 | 1.26 | 1.26 | 40.11 | |
| | 22 | 400 | 19 | 35 | 44 | 27,5 | 38,5 | 27 | 36 | 36 | 24,57 | FI-EWD-22L-B-W3-DKO |
| | .87 | 5800 | .75 | 1.38 | 1.73 | 1.08 | 1.52 | 1.06 | 1.42 | 1.42 | 54.05 | |
| | 28 | 250 | 24 | 38 | 47 | 30,5 | 41,5 | 36 | 41 | 41 | 34,95 | FI-EWD-28L-B-W3-DKO |
| | 1.10 | 3625 | .94 | 1.50 | 1.85 | 1.20 | 1.63 | 1.42 | 1.61 | 1.61 | 76.89 | |
| | 35 | 250 | 30 | 45 | 56 | 34,5 | 51 | 41 | 50 | 50 | 56,50 | FI-EWD-35L-B-W3-DKO |
| | 1.38 | 3625 | 1.18 | 1.77 | 2.20 | 1.36 | 2.01 | 1.61 | 1.97 | 1.97 | 124.30 | |
| | 42 | 250 | 36 | 51 | 63 | 40 | 56 | 50 | 60 | 60 | 85,10 | FI-EWD-42L-B-W3-DKO |
| | 1.65 | 3625 | 1.42 | 2.01 | 2.48 | 1.57 | 2.20 | 1.97 | 2.36 | 2.36 | 187.22 | |
| S | 6 | 800 | 4 | 23 | 31 | 16 | 27 | 12 | 17 | 17 | 4,67 | FI-EWD-06S-B-W3-DKO |
| | .24 | 11600 | .16 | .91 | 1.22 | .63 | 1.06 | .47 | .67 | .67 | 10.27 | |
| | 8 | 800 | 5 | 24 | 32 | 17 | 27,5 | 14 | 19 | 19 | 6,29 | FI-EWD-08S-B-W3-DKO |
| | .31 | 11600 | .20 | .94 | 1.26 | .67 | 1.08 | .55 | .75 | .75 | 13.84 | |
| | 10 | 800 | 7 | 25 | 34 | 17,5 | 30 | 17 | 22 | 22 | 8,58 | FI-EWD-10S-B-W3-DKO |
| | .39 | 11600 | .28 | .98 | 1.34 | .69 | 1.18 | .67 | .87 | .87 | 18.87 | |
| | 12 | 630 | 8 | 29 | 38 | 21,5 | 31 | 17 | 24 | 24 | 11,02 | FI-EWD-12S-B-W3-DKO |
| | .47 | 9135 | .31 | 1.14 | 1.50 | .85 | 1.22 | .67 | .94 | .94 | 24.24 | |
| | 14 | 630 | 10 | 30 | 40 | 22 | 35 | 19 | 27 | 27 | 14,34 | FI-EWD-14S-B-W3-DKO |
| | .55 | 9135 | .39 | 1.18 | 1.57 | .87 | 1.38 | .75 | 1.06 | 1.06 | 31.54 | |
| | 16 | 630 | 12 | 33 | 43 | 24,5 | 36,5 | 24 | 30 | 30 | 19,26 | FI-EWD-16S-B-W3-DKO |
| | .63 | 9135 | .47 | 1.30 | 1.69 | .96 | 1.44 | .94 | 1.18 | 1.18 | 42.38 | |
| | 20 | 400 | 16 | 37 | 48 | 26,5 | 44,5 | 27 | 36 | 36 | 29,86 | FI-EWD-20S-B-W3-DKO |
| | .79 | 5800 | .63 | 1.46 | 1.89 | 1.04 | 1.75 | 1.06 | 1.42 | 1.42 | 65.70 | |
| | 25 | 400 | 20 | 42 | 54 | 30 | 50 | 36 | 46 | 46 | 53,20 | FI-EWD-25S-B-W3-DKO |
| | .98 | 5800 | .79 | 1.65 | 2.13 | 1.18 | 1.97 | 1.42 | 1.81 | 1.81 | 117.04 | |
| | 30 | 400 | 25 | 49 | 62 | 35,5 | 55 | 41 | 50 | 50 | 72,50 | FI-EWD-30S-B-W3-DKO |
| | 1.18 | 5800 | .98 | 1.93 | 2.44 | 1.40 | 2.17 | 1.61 | 1.97 | 1.97 | 159.50 | |
| 38 | 400 | 32 | 57 | 72 | 41 | 63 | 50 | 60 | 60 | 109,40 | FI-EWD-38S-B-W3-DKO | |
| 1.50 | 5800 | 1.26 | 2.24 | 2.83 | 1.61 | 2.48 | 1.97 | 2.36 | 2.36 | 240.68 | | |

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.

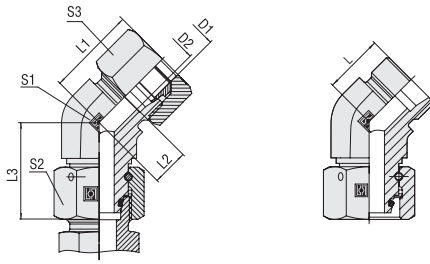


Typical application with a Straight Male Stud Fitting FI-GE-...

Standard seal material is NBR (Buna-N®).



Adjustable Elbow (45°) with 24° Taper / O-Ring
Type FI-EVD • Series L / S



| Series | Tube OD | PN | Dimensions | | | | | | | | | Weight (*9/105) ca. per 100 ² | Ordering Codes ³ |
|--------|---------|-------|------------|------|----------------|----------------|----------------|------|------|--------|---------------------|--|-----------------------------|
| | (mm/in) | | (mm/in) | L | L ¹ | L ² | L ³ | S1 | S2 | S3 | | | |
| L | 6 | 500 | 4 | 16 | 24 | 9 | 26 | 14 | 14 | 14 | 4,63 | FI-EVD-06L-B-W3-DKO | |
| | .24 | 7250 | .16 | .63 | .94 | .35 | 1.02 | .55 | .55 | .55 | 10.19 | | |
| | 8 | 500 | 6 | 19 | 27 | 12 | 27,5 | 14 | 17 | 17 | 4,72 | FI-EVD-08L-B-W3-DKO | |
| | .31 | 7250 | .24 | .75 | 1.06 | .47 | 1.08 | .55 | .67 | .67 | 10.37 | | |
| | 10 | 500 | 8 | 19 | 27 | 12 | 29 | 19 | 19 | 19 | 7,56 | FI-EVD-10L-B-W3-DKO | |
| | .39 | 7250 | .31 | .75 | 1.06 | .47 | 1.14 | .75 | .75 | .75 | 16.63 | | |
| | 12 | 400 | 10 | 21 | 29 | 14 | 29,5 | 19 | 22 | 22 | 8,66 | FI-EVD-12L-B-W3-DKO | |
| | .47 | 5800 | .39 | .83 | 1.14 | .55 | 1.16 | .75 | .87 | .87 | 19.06 | | |
| | 15 | 400 | 12 | 24 | 32 | 17 | 32,5 | 22 | 27 | 27 | 12,96 | FI-EVD-15L-B-W3-DKO | |
| | .59 | 5800 | .47 | .94 | 1.26 | .67 | 1.28 | .87 | 1.06 | 1.06 | 28.52 | | |
| | 18 | 400 | 15 | 24 | 33 | 17 | 35,5 | 27 | 32 | 32 | 20,64 | FI-EVD-18L-B-W3-DKO | |
| | .71 | 5800 | .59 | .94 | 1.30 | .67 | 1.40 | 1.06 | 1.26 | 1.26 | 45.42 | | |
| | 22 | 400 | 19 | 26 | 35 | 19 | 38,5 | 30 | 36 | 36 | 26,41 | FI-EVD-22L-B-W3-DKO | |
| | .87 | 5800 | .75 | 1.02 | 1.38 | .75 | 1.52 | 1.18 | 1.42 | 1.42 | 58.11 | | |
| | 28 | 250 | 24 | 30,5 | 40 | 23 | 41,5 | 36 | 41 | 41 | 34,69 | FI-EVD-28L-B-W3-DKO | |
| | 1.10 | 3625 | .94 | 1.20 | 1.57 | .91 | 1.63 | 1.42 | 1.61 | 1.61 | 76.32 | | |
| | 35 | 250 | 30 | 37 | 48 | 27 | 51 | 50 | 50 | 50 | 79,60 | FI-EVD-35L-B-W3-DKO | |
| | 1.38 | 3625 | 1.18 | 1.46 | 1.89 | 1.06 | 2.01 | 1.97 | 1.97 | 1.97 | 175.12 | | |
| 42 | 250 | 36 | 37 | 49 | 26 | 56 | 50 | 60 | 60 | 83,20 | FI-EVD-42L-B-W3-DKO | | |
| 1.65 | 3625 | 1.42 | 1.46 | 1.93 | 1.02 | 2.20 | 1.97 | 2.36 | 2.36 | 183.04 | | | |
| S | 6 | 800 | 4 | 16 | 24 | 9 | 27 | 14 | 17 | 17 | 4,90 | FI-EVD-06S-B-W3-DKO | |
| | .24 | 11600 | .16 | .63 | .94 | .35 | 1.06 | .55 | .67 | .67 | 10.77 | | |
| | 8 | 800 | 5 | 19 | 27 | 12 | 27,5 | 19 | 19 | 19 | 5,17 | FI-EVD-08S-B-W3-DKO | |
| | .31 | 11600 | .20 | .75 | 1.06 | .47 | 1.08 | .75 | .75 | .75 | 11.37 | | |
| | 10 | 800 | 7 | 21 | 30 | 13 | 30 | 19 | 22 | 22 | 9,44 | FI-EVD-10S-B-W3-DKO | |
| | .39 | 11600 | .28 | .83 | 1.18 | .51 | 1.18 | .75 | .87 | .87 | 20.76 | | |
| | 12 | 630 | 8 | 24 | 33 | 17 | 31 | 19 | 24 | 24 | 12,90 | FI-EVD-12S-B-W3-DKO | |
| | .47 | 9135 | .31 | .94 | 1.30 | .67 | 1.22 | .75 | .94 | .94 | 28.38 | | |
| | 16 | 630 | 12 | 24 | 34 | 16 | 36,5 | 19 | 30 | 30 | 16,76 | FI-EVD-16S-B-W3-DKO | |
| | .63 | 9135 | .47 | .94 | 1.34 | .63 | 1.44 | .75 | 1.18 | 1.18 | 36.87 | | |
| | 20 | 400 | 16 | 26,5 | 37,5 | 16 | 44,5 | 27 | 36 | 36 | 30,72 | FI-EVD-20S-B-W3-DKO | |
| | .79 | 5800 | .63 | 1.04 | 1.48 | .63 | 1.75 | 1.06 | 1.42 | 1.42 | 67.58 | | |
| | 25 | 400 | 20 | 30,5 | 42,5 | 19 | 50 | 36 | 46 | 46 | 50,10 | FI-EVD-25S-B-W3-DKO | |
| | .98 | 5800 | .79 | 1.20 | 1.67 | .75 | 1.97 | 1.42 | 1.81 | 1.81 | 110.22 | | |
| | 30 | 400 | 25 | 37 | 50 | 24 | 55 | 50 | 50 | 50 | 92,90 | FI-EVD-30S-B-W3-DKO | |
| 1.18 | 5800 | .98 | 1.46 | 1.97 | .94 | 2.17 | 1.97 | 1.97 | 1.97 | 204.38 | | | |
| 38 | 400 | 32 | 37 | 52 | 21 | 63 | 50 | 60 | 60 | 98,50 | FI-EVD-38S-B-W3-DKO | | |
| 1.50 | 5800 | 1.26 | 1.46 | 2.05 | .83 | 2.48 | 1.97 | 2.36 | 2.36 | 216.70 | | | |

Ordering Codes

FI-EVD-10*L*-B*-W3*-DKO*-MS

- * Adjustable Elbow (45°) with 24° Taper / O-Ring (DKO) FI-EVD
 - * Outside Tube Diameter D1 (in mm) -10
 - * Series L
S
 - Light Series
 - Heavy Series
 - * Seal Material -B
-V
-E
 - NBR (Buna-N®)
 - FKM (Viton®)
 - EPDM
 - * Material Code -W3
 - Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting -DKO
-MS
-MSV
 - Fitting body supplied with swivel nut and O-ring
 - Fitting body supplied with cutting ring and union nut
 - Fitting body supplied with soft-sealing cutting ring and union nut

Connecting Parts

-  Cutting Ring
Type **FI-DS** Page 26
-  Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
-  Support Sleeve
Type **FI-VH** Page 28
-  STAUFF Form Ring
Type **FI-AR** Page 30
-  Union Nut
Type **FI-M** Page 31
-  37° Flared Tube Fitting Set
Type **FI-AB** Page 35

Spare Parts / Accessories

-  O-Ring
Type **O-RING** Page 207

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.

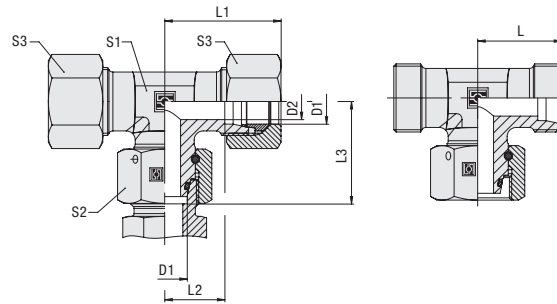


Typical application with a Straight Male Stud Fitting FI-GE-...

Standard seal material is NBR (Buna-N®).



Adjustable Branch Tee with 24° Taper / O-Ring (DKO)
Type FI-ETD ▪ Series L / S



Ordering Codes

***FI-ETD*-10*L*-B*-W3*-DKO*-MS**

- * Adjustable Branch Tee with 24° Taper / O-Ring (DKO) **FI-ETD**
 - * Outside Tube Diameter D1 (in mm) **-10**
 - * Series **L** (Light Series) **S** (Heavy Series)
 - * Seal Material **-B** (NBR (Buna-N®)) **-V** (FKM (Viton®)) **-E** (EPDM)
 - * Material Code **-W3** (Steel, zinc/nickel-plated)
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **-DKO** (Fitting body supplied with swivel nut and O-ring)
 - MS** (Fitting body supplied with cutting ring and union nut)
 - MSV** (Fitting body supplied with soft-sealing cutting ring and union nut)

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | |
|--------|--------------------|-----------------|-----------------------|------|------|-----------------|------|------|------|--|-----------------------------|---------------------|
| | | | D1 | D2 | L | L1 ¹ | L2 | L3 | S1 | | | S2 |
| L | 6 | 500 | 4 | 19 | 27 | 12 | 26 | 12 | 14 | 14 | 3,02 | FI-ETD-06L-B-W3-DKO |
| | .24 | 7250 | .16 | .75 | 1.06 | .47 | 1.02 | .47 | .55 | .55 | 6,64 | |
| | 8 | 500 | 6 | 21 | 29 | 14 | 27,5 | 12 | 17 | 17 | 4,82 | FI-ETD-08L-B-W3-DKO |
| | .31 | 7250 | .24 | .83 | 1.14 | .55 | 1.08 | .47 | .67 | .67 | 10,61 | |
| | 10 | 500 | 8 | 22 | 30 | 15 | 29 | 14 | 19 | 19 | 6,27 | FI-ETD-10L-B-W3-DKO |
| | .39 | 7250 | .31 | .87 | 1.18 | .59 | 1.14 | .55 | .75 | .75 | 13,79 | |
| | 12 | 400 | 10 | 24 | 32 | 17 | 29,5 | 17 | 22 | 22 | 8,73 | FI-ETD-12L-B-W3-DKO |
| | .47 | 5800 | .39 | .94 | 1.26 | .67 | 1.16 | .67 | .87 | .87 | 19,21 | |
| | 15 | 400 | 12 | 28 | 36 | 21 | 32,5 | 19 | 27 | 27 | 14,55 | FI-ETD-15L-B-W3-DKO |
| | .59 | 5800 | .47 | 1.10 | 1.42 | .83 | 1.28 | .75 | 1.06 | 1.06 | 32,01 | |
| | 18 | 400 | 15 | 31 | 40 | 23,5 | 35,5 | 24 | 32 | 32 | 20,89 | FI-ETD-18L-B-W3-DKO |
| | .71 | 5800 | .59 | 1.22 | 1.57 | .93 | 1.40 | .94 | 1.26 | 1.26 | 45,95 | |
| | 22 | 400 | 19 | 35 | 44 | 27,5 | 38,5 | 27 | 36 | 36 | 28,27 | FI-ETD-22L-B-W3-DKO |
| | .87 | 5800 | .75 | 1.38 | 1.73 | 1.08 | 1.52 | 1.06 | 1.42 | 1.42 | 62,20 | |
| | 28 | 250 | 24 | 38 | 47 | 30,5 | 41,5 | 36 | 41 | 41 | 39,85 | FI-ETD-28L-B-W3-DKO |
| | 1.10 | 3625 | .94 | 1.50 | 1.85 | 1.20 | 1.63 | 1.42 | 1.61 | 1.61 | 87,67 | |
| | 35 | 250 | 30 | 45 | 56 | 34,5 | 51 | 41 | 50 | 50 | 64,20 | FI-ETD-35L-B-W3-DKO |
| | 1.38 | 3625 | 1.18 | 1.77 | 2.20 | 1.36 | 2.01 | 1.61 | 1.97 | 1.97 | 141,24 | |
| 42 | 250 | 36 | 51 | 63 | 40 | 56 | 50 | 60 | 60 | 94,90 | FI-ETD-42L-B-W3-DKO | |
| 1.65 | 3625 | 1.42 | 2.01 | 2.48 | 1.57 | 2.20 | 1.97 | 2.36 | 2.36 | 208,78 | | |
| S | 6 | 800 | 4 | 23 | 31 | 16 | 27 | 12 | 17 | 17 | 5,99 | FI-ETD-06S-B-W3-DKO |
| | .24 | 11600 | .16 | .91 | 1.22 | .63 | 1.06 | .47 | .67 | .67 | 13,18 | |
| | 8 | 800 | 5 | 24 | 32 | 17 | 27,5 | 14 | 19 | 19 | 7,80 | FI-ETD-08S-B-W3-DKO |
| | .31 | 11600 | .20 | .94 | 1.26 | .67 | 1.08 | .55 | .75 | .75 | 17,15 | |
| | 10 | 800 | 7 | 25 | 34 | 17,5 | 30 | 17 | 22 | 22 | 10,60 | FI-ETD-10S-B-W3-DKO |
| | .39 | 11600 | .28 | .98 | 1.34 | .69 | 1.18 | .67 | .87 | .87 | 23,32 | |
| | 12 | 630 | 8 | 29 | 38 | 21,5 | 31 | 17 | 24 | 24 | 13,63 | FI-ETD-12S-B-W3-DKO |
| | .47 | 9135 | .31 | 1.14 | 1.50 | .85 | 1.22 | .67 | .94 | .94 | 29,98 | |
| | 14 | 630 | 10 | 30 | 40 | 22 | 35 | 19 | 27 | 27 | 17,37 | FI-ETD-14S-B-W3-DKO |
| | .55 | 9135 | .39 | 1.18 | 1.57 | .87 | 1.38 | .75 | 1.06 | 1.06 | 38,21 | |
| | 16 | 630 | 12 | 33 | 43 | 24,5 | 36,5 | 24 | 30 | 30 | 22,95 | FI-ETD-16S-B-W3-DKO |
| | .63 | 9135 | .47 | 1.30 | 1.69 | .96 | 1.44 | .94 | 1.18 | 1.18 | 50,49 | |
| | 20 | 400 | 16 | 37 | 48 | 26,5 | 44,5 | 27 | 36 | 36 | 35,51 | FI-ETD-20S-B-W3-DKO |
| | .79 | 5800 | .63 | 1.46 | 1.89 | 1.04 | 1.75 | 1.06 | 1.42 | 1.42 | 78,13 | |
| | 25 | 400 | 20 | 42 | 54 | 30 | 50 | 36 | 46 | 46 | 62,40 | FI-ETD-25S-B-W3-DKO |
| | .98 | 5800 | .79 | 1.65 | 2.13 | 1.18 | 1.97 | 1.42 | 1.81 | 1.81 | 137,28 | |
| | 30 | 400 | 25 | 49 | 62 | 35,5 | 55 | 41 | 50 | 50 | 85,60 | FI-ETD-30S-B-W3-DKO |
| | 1.18 | 5800 | .98 | 1.93 | 2.44 | 1.40 | 2.17 | 1.61 | 1.97 | 1.97 | 188,32 | |
| 38 | 400 | 32 | 57 | 72 | 41 | 63 | 50 | 60 | 60 | 128,10 | FI-ETD-38S-B-W3-DKO | |
| 1.50 | 5800 | 1.26 | 2.24 | 2.83 | 1.61 | 2.48 | 1.97 | 2.36 | 2.36 | 281,82 | | |

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

Spare Parts / Accessories

- O-Ring Type **O-RING** Page 207

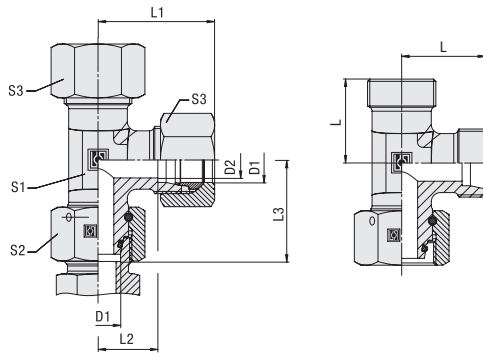
¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.



Typical application with a Straight Male Stud Fitting FI-GE-...

Standard seal material is NBR (Buna-N®).





Adjustable Barrel Tee with 24° Taper / O-Ring (DKO)
Type FI-ELD • Series L / S



| Series | Tube OD | | PN | | Dimensions | | | | | | | Weight (*9/10s) ca. per 100 ² | Ordering Codes ³ |
|--------|---------|---------|-----------|-----------|------------|----------------|----------------|----------------|---------|---------|---------------------|--|-----------------------------|
| | (mm/in) | (mm/in) | (bar/PSI) | (bar/PSI) | (mm/in) | (mm/in) | (mm/in) | (mm/in) | (mm/in) | (mm/in) | (mm/in) | | |
| | D1 | | D2 | | L | L ¹ | L ² | L ³ | S1 | S2 | S3 | | |
| L | 6 | 500 | 4 | 19 | 27 | 12 | 26 | 12 | 14 | 14 | 4,79 | FI-ELD-06L-B-W3-DKO | |
| | .24 | 7250 | .16 | .75 | 1.06 | .47 | 1.02 | .47 | .55 | .55 | 10.53 | | |
| | 8 | 500 | 6 | 21 | 29 | 14 | 27,5 | 12 | 17 | 17 | 4,88 | FI-ELD-08L-B-W3-DKO | |
| | .31 | 7250 | .24 | .83 | 1.14 | .55 | 1.08 | .47 | .67 | .67 | 10.74 | | |
| | 10 | 500 | 8 | 22 | 30 | 15 | 29 | 14 | 19 | 19 | 6,45 | FI-ELD-10L-B-W3-DKO | |
| | .39 | 7250 | .31 | .87 | 1.18 | .59 | 1.14 | .55 | .75 | .75 | 14.19 | | |
| | 12 | 400 | 10 | 24 | 32 | 17 | 29,5 | 17 | 22 | 22 | 8,58 | FI-ELD-12L-B-W3-DKO | |
| | .47 | 5800 | .39 | .94 | 1.26 | .67 | 1.16 | .67 | .87 | .87 | 18.88 | | |
| | 15 | 400 | 12 | 28 | 36 | 21 | 32,5 | 19 | 27 | 27 | 14,60 | FI-ELD-15L-B-W3-DKO | |
| | .59 | 5800 | .47 | 1.10 | 1.42 | .83 | 1.28 | .75 | 1.06 | 1.06 | 32.12 | | |
| | 18 | 400 | 15 | 31 | 40 | 23,5 | 35,5 | 24 | 32 | 32 | 20,83 | FI-ELD-18L-B-W3-DKO | |
| | .71 | 5800 | .59 | 1.22 | 1.57 | .93 | 1.40 | .94 | 1.26 | 1.26 | 45.82 | | |
| | 22 | 400 | 19 | 35 | 44 | 27,5 | 38,5 | 27 | 36 | 36 | 28,02 | FI-ELD-22L-B-W3-DKO | |
| | .87 | 5800 | .75 | 1.38 | 1.73 | 1.08 | 1.52 | 1.06 | 1.42 | 1.42 | 61.64 | | |
| | 28 | 250 | 24 | 38 | 47 | 30,5 | 41,5 | 36 | 41 | 41 | 39,66 | FI-ELD-28L-B-W3-DKO | |
| | 1.10 | 3625 | .94 | 1.50 | 1.85 | 1.20 | 1.63 | 1.42 | 1.61 | 1.61 | 87.25 | | |
| | 35 | 250 | 30 | 45 | 56 | 34,5 | 51 | 41 | 50 | 50 | 64,60 | FI-ELD-35L-B-W3-DKO | |
| | 1.38 | 3625 | 1.18 | 1.77 | 2.20 | 1.36 | 2.01 | 1.61 | 1.97 | 1.97 | 142.12 | | |
| | 42 | 250 | 36 | 51 | 63 | 40 | 56 | 50 | 60 | 60 | 94,70 | FI-ELD-42L-B-W3-DKO | |
| | 1.65 | 3625 | 1.42 | 2.01 | 2.48 | 1.57 | 2.20 | 1.97 | 2.36 | 2.36 | 208.34 | | |
| S | 6 | 800 | 4 | 23 | 31 | 16 | 27 | 12 | 17 | 17 | 6,04 | FI-ELD-06S-B-W3-DKO | |
| | .24 | 11600 | .16 | .91 | 1.22 | .63 | 1.06 | .47 | .67 | .67 | 13.30 | | |
| | 8 | 800 | 5 | 24 | 32 | 17 | 27,5 | 14 | 19 | 19 | 8,14 | FI-ELD-08S-B-W3-DKO | |
| | .31 | 11600 | .20 | .94 | 1.26 | .67 | 1.08 | .55 | .75 | .75 | 17.90 | | |
| | 10 | 800 | 7 | 25 | 34 | 17,5 | 30 | 17 | 22 | 22 | 10,53 | FI-ELD-10S-B-W3-DKO | |
| | .39 | 11600 | .28 | .98 | 1.34 | .69 | 1.18 | .67 | .87 | .87 | 23.16 | | |
| | 12 | 630 | 8 | 29 | 38 | 21,5 | 31 | 17 | 24 | 24 | 13,80 | FI-ELD-12S-B-W3-DKO | |
| | .47 | 9135 | .31 | 1.14 | 1.50 | .85 | 1.22 | .67 | .94 | .94 | 30.36 | | |
| | 14 | 630 | 10 | 30 | 40 | 22 | 35 | 19 | 27 | 27 | 20,27 | FI-ELD-14S-B-W3-DKO | |
| | .55 | 9135 | .39 | 1.18 | 1.57 | .87 | 1.38 | .75 | 1.06 | 1.06 | 44.59 | | |
| | 16 | 630 | 12 | 33 | 43 | 24,5 | 36,5 | 24 | 30 | 30 | 23,13 | FI-ELD-16S-B-W3-DKO | |
| | .63 | 9135 | .47 | 1.30 | 1.69 | .96 | 1.44 | .94 | 1.18 | 1.18 | 50.88 | | |
| | 20 | 400 | 16 | 37 | 48 | 26,5 | 44,5 | 27 | 36 | 36 | 35,53 | FI-ELD-20S-B-W3-DKO | |
| | .79 | 5800 | .63 | 1.46 | 1.89 | 1.04 | 1.75 | 1.06 | 1.42 | 1.42 | 78.17 | | |
| | 25 | 400 | 20 | 42 | 54 | 30 | 50 | 36 | 46 | 46 | 61,90 | FI-ELD-25S-B-W3-DKO | |
| .98 | 5800 | .79 | 1.65 | 2.13 | 1.18 | 1.97 | 1.42 | 1.81 | 1.81 | 136.18 | | | |
| 30 | 400 | 25 | 49 | 62 | 35,5 | 55 | 41 | 50 | 50 | 85,10 | FI-ELD-30S-B-W3-DKO | | |
| 1.18 | 5800 | .98 | 1.93 | 2.44 | 1.40 | 2.17 | 1.61 | 1.97 | 1.97 | 187.22 | | | |
| 38 | 400 | 32 | 57 | 72 | 41 | 63 | 50 | 60 | 60 | 128,00 | FI-ELD-38S-B-W3-DKO | | |
| 1.50 | 5800 | 1.26 | 2.24 | 2.83 | 1.61 | 2.48 | 1.97 | 2.36 | 2.36 | 281.60 | | | |

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Fitting body only.



Typical application with a Straight Male Stud Fitting FI-GE...

Standard seal material is NBR (Buna-N®).

Ordering Codes

FI-ELD-10*L*-B*-W3*-DKO*-MS

- * Adjustable Barrel Tee with 24° Taper / O-Ring (DKO) FI-ELD
 - * Outside Tube Diameter D1 (in mm) -10
 - * Series Light Series L
Heavy Series S
 - * Seal Material NBR (Buna-N®) -B
FKM (Viton®) -V
EPDM -E
 - * Material Code Steel, zinc/nickel-plated -W3
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body supplied with swivel nut and O-ring -DKO
Fitting body supplied with cutting ring and union nut -MS
Fitting body supplied with soft-sealing cutting ring and union nut -MSV

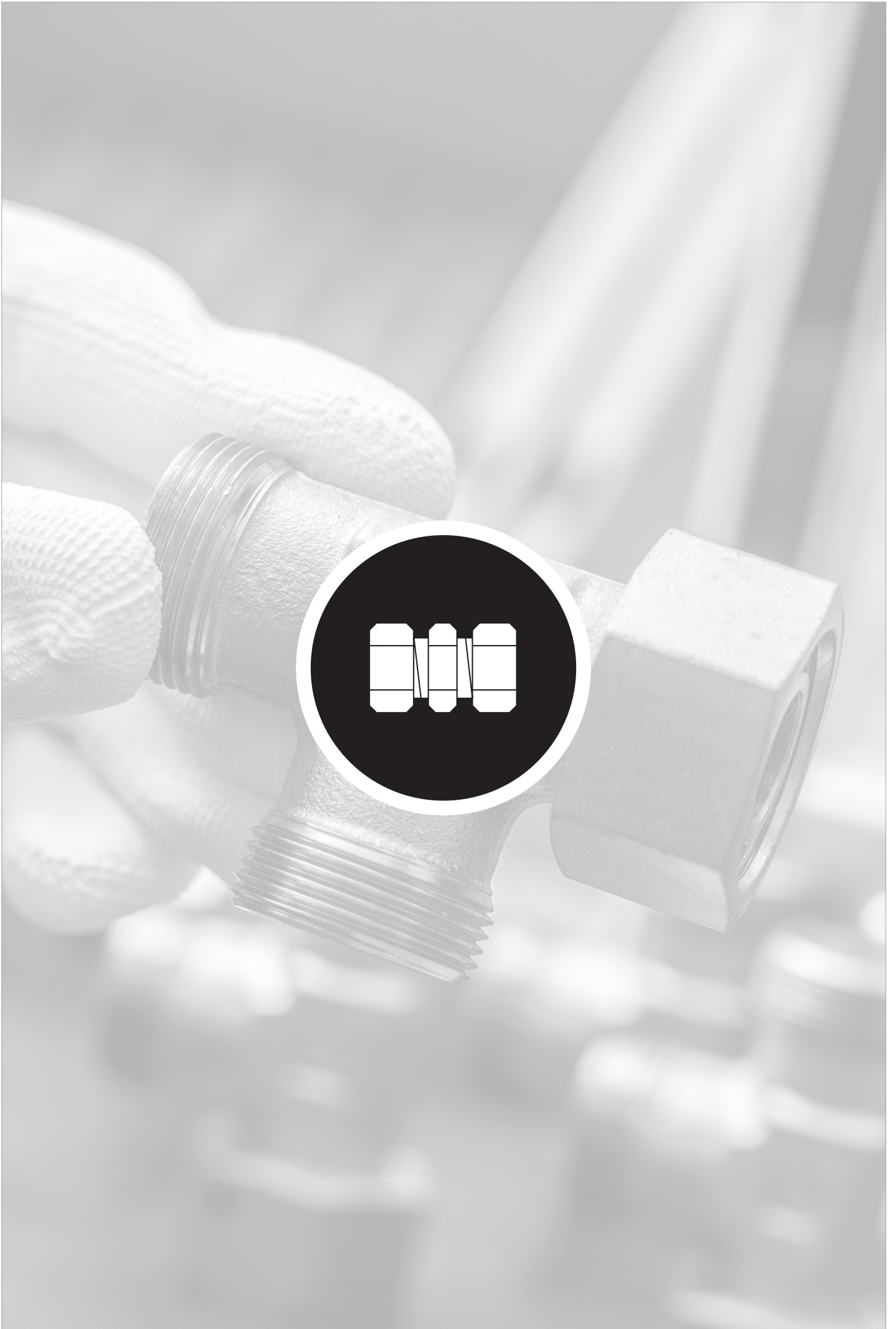
Connecting Parts



-  Cutting Ring Type FI-DS Page 26
-  Soft-Sealing Cutting Ring Type FI-WDDS Page 27
-  Support Sleeve Type FI-VH Page 28
-  STAUFF Form Ring Type FI-AR Page 30
-  Union Nut Type FI-M Page 31
-  37° Flared Tube Fitting Set Type FI-AB Page 35

Spare Parts / Accessories

-  O-Ring Type O-RING Page 207

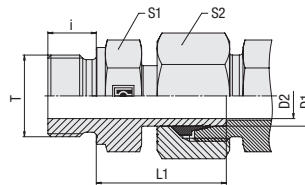




| | | |
|---|--|----------------|
| | Straight Male Stud Standpipe Fitting | 132-136 |
| | FI-EGE | |
|  | Whitworth Parallel Pipe Thread (BSPP) / Metallic Sealing Edge | 132 |
| | FI-EGE-...-R | |
|  | Metric Parallel Thread / Metallic Sealing Edge | 133 |
| | FI-EGE-...-M | |
|  | Whitworth Parallel Pipe Thread (BSPP) / Profile Sealing Ring | 134 |
| | FI-EGE-...-R-WD | |
|  | Metric Parallel Thread / Profile Sealing Ring | 135 |
| | FI-EGE-...-M-WD | |
|  | NPT Thread | 136 |
| | FI-EGE-...-N | |
|  | Straight Standpipe Reducer | 138 |
| | FI-REDS | |
|  | Adjustable Standpipe Elbow | 142 |
| | FI-EW | |
|  | Adjustable Standpipe Branch Tee | 143 |
| | FI-ET | |
|  | Adjustable Standpipe Barrel Tee | 144 |
| | FI-EL | |



Straight Male Stud Standpipe Fitting
Type FI-EGE-...-R • Series L / S



Ordering Codes

***FI-EGE*-10*L*R*-W3*-SV**

- * Straight Male Stud Standpipe Fitting **FI-EGE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
Light Series
S Heavy Series
- * Thread Type **R**
Whitworth Parallel
Pipe Thread (BSPP)
- If required, please indicate special sizes, e.g. R1/8!
- * Material Code **-W3**
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **-SV**
Fitting body assembled with cutting ring and union nut on the standpipe

Whitworth Parallel Pipe Thread (BSPP)

Metallic Sealing Edge

| Series | Tube OD | | PN (PB) | Dimensions | | | | | Torque (^{N·m} /ft·lb) | Weight (^{kg} /lbs) ca. per 100 ¹ | Ordering Codes ² | |
|--------|---------|---------|---------|------------|------|------|------|------|------------------------------------|---|-----------------------------|-------------------|
| | (mm/in) | (mm/in) | | Thread | T | D2 | L1 | i | | | | S1 |
| L | 6 | 315 | | G 1/8 | 3,5 | 24,5 | 8 | 14 | 14 | 18 | 2,50 | FI-EGE-06LR-W3-SV |
| | .24 | 4568 | | | .14 | .96 | .31 | .55 | .55 | 13.3 | 5.50 | |
| | 8 | 315 | | G 1/4 | 4,5 | 29,5 | 12 | 19 | 17 | 35 | 5,53 | FI-EGE-08LR-W3-SV |
| | .31 | 4568 | | | .18 | 1.16 | .47 | .75 | .67 | 25.9 | 12.17 | |
| | 10 | 315 | | G 1/4 | 7 | 27,5 | 12 | 19 | 19 | 35 | 5,11 | FI-EGE-10LR-W3-SV |
| | .39 | 4568 | | | .28 | 1.08 | .47 | .75 | .75 | 25.9 | 11.23 | |
| | 12 | 315 | | G 3/8 | 7,5 | 34 | 12 | 22 | 22 | 70 | 8,25 | FI-EGE-12LR-W3-SV |
| | .47 | 4568 | | | .30 | 1.34 | .47 | .87 | .87 | 51.8 | 18.15 | |
| | 15 | 315 | | G 1/2 | 11 | 32 | 14 | 27 | 27 | 110 | 13,02 | FI-EGE-15LR-W3-SV |
| | .59 | 4568 | | | .43 | 1.26 | .55 | 1.06 | 1.06 | 81.4 | 28.65 | |
| | 18 | 315 | | G 1/2 | 14 | 31,5 | 14 | 27 | 32 | 110 | 13,86 | FI-EGE-18LR-W3-SV |
| | .71 | 4568 | | | .55 | 1.24 | .55 | 1.06 | 1.26 | 81.4 | 30.48 | |
| | 22 | 160 | | G 3/4 | 18 | 32,5 | 16 | 32 | 36 | 180 | 19,98 | FI-EGE-22LR-W3-SV |
| | .87 | 2320 | | | .71 | 1.28 | .63 | 1.26 | 1.42 | 133.2 | 43.96 | |
| | 28 | 160 | | G 1 | 23 | 35 | 18 | 41 | 41 | 330 | 27,39 | FI-EGE-28LR-W3-SV |
| | 1.10 | 2320 | | | .91 | 1.38 | .71 | 1.61 | 1.61 | 244.2 | 60.26 | |
| | 35 | 160 | | G 1 1/4 | 29,5 | 42,5 | 20 | 50 | 50 | 540 | 47,03 | FI-EGE-35LR-W3-SV |
| | 1.38 | 2320 | | | 1.16 | 1.67 | .79 | 1.97 | 1.97 | 399.6 | 103.47 | |
| 42 | 160 | | G 1 1/2 | 35,5 | 46,5 | 22 | 55 | 60 | 630 | 72,00 | FI-EGE-42LR-W3-SV | |
| 1.65 | 2320 | | | 1.40 | 1.83 | .87 | 2.17 | 2.36 | 466.2 | 158.40 | | |
| S | 6 | PB630 | | G 1/4 | 3,5 | 27 | 12 | 19 | 17 | 55 | 4,98 | FI-EGE-06SR-W3-SV |
| | .24 | PB9135 | | | .14 | 1.06 | .47 | .75 | .67 | 40.7 | 10.96 | |
| | 8 | PB630 | | G 1/4 | 4,5 | 29,5 | 12 | 19 | 19 | 55 | 5,98 | FI-EGE-08SR-W3-SV |
| | .31 | PB9135 | | | .18 | 1.16 | .47 | .75 | .75 | 40.7 | 13.16 | |
| | 10 | PB630 | | G 3/8 | 6,5 | 32 | 12 | 22 | 22 | 90 | 8,81 | FI-EGE-10SR-W3-SV |
| | .39 | PB9135 | | | .26 | 1.26 | .47 | .87 | .87 | 66.6 | 19.39 | |
| | 12 | PB630 | | G 3/8 | 7,5 | 34 | 12 | 22 | 24 | 90 | 10,01 | FI-EGE-12SR-W3-SV |
| | .47 | PB9135 | | | .30 | 1.34 | .47 | .87 | .94 | 66.6 | 22.01 | |
| | 14 | PB630 | | G 1/2 | 9,5 | 36,5 | 14 | 27 | 27 | 130 | 13,95 | FI-EGE-14SR-W3-SV |
| | .55 | PB9135 | | | .37 | 1.44 | .55 | 1.06 | 1.06 | 96.2 | 30.69 | |
| | 16 | PB400 | | G 1/2 | 11,5 | 37 | 14 | 27 | 30 | 130 | 16,94 | FI-EGE-16SR-W3-SV |
| | .63 | PB5800 | | | .45 | 1.46 | .55 | 1.06 | 1.18 | 96.2 | 37.28 | |
| | 20 | PB400 | | G 3/4 | 15,5 | 43 | 16 | 32 | 36 | 270 | 26,98 | FI-EGE-20SR-W3-SV |
| | .79 | PB5800 | | | .61 | 1.69 | .63 | 1.26 | 1.42 | 199.8 | 59.36 | |
| | 25 | PB400 | | G 1 | 18 | 48 | 18 | 41 | 46 | 340 | 49,03 | FI-EGE-25SR-W3-SV |
| | .98 | PB5800 | | | .71 | 1.89 | .71 | 1.61 | 1.81 | 251.6 | 107.87 | |
| | 30 | PB400 | | G 1 1/4 | 23,5 | 51 | 20 | 50 | 50 | 540 | 69,13 | FI-EGE-30SR-W3-SV |
| | 1.18 | PB5800 | | | .93 | 2.01 | .79 | 1.97 | 1.97 | 399.6 | 152.08 | |
| 38 | PB315 | | G 1 1/2 | 29 | 60 | 22 | 55 | 60 | 700 | 98,20 | FI-EGE-38SR-W3-SV | |
| 1.50 | PB4568 | | | 1.14 | 2.36 | .87 | 2.17 | 2.36 | 518.0 | 216.04 | | |

¹Weight including cutting ring and union nut on the standpipe.

²Standard scope of delivery: Fitting body assembled with cutting ring and union nut on the standpipe.

Please note: Standpipes are always factory-assembled with cutting rings and union nuts.

The union nut assembled on the standpipe has to be tightened by only 1/12 a turn (equivalent to 30°) beyond the fixed point.

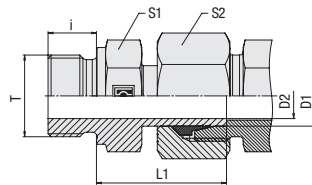


Male stud acc. to DIN 3852-2 (Form B) / ISO 1179-4 (Type B)
Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended. Please contact STAUFF prior to the assembly for further information.



**Straight Male Stud Standpipe Fitting
Type FI-EGE-...-M • Series L / S**

Metallic Sealing Edge
Metric Parallel Thread

| Series | Tube OD | | PN (PB) Dimensions (mm/in) | Dimensions | | | | | | Torque (N-m/(ft-lb)) | Weight (kg/lbs) ca. per 100 ¹ | Ordering Codes ² |
|--------|---------|-----------|-------------------------------|------------|------|-----|------|------|-------|-------------------------|--|-----------------------------|
| | (mm/in) | (bar/PSI) | | Thread T | D2 | L1 | i | S1 | S2 | | | |
| L | 6 | 315 | M 10 x 1 | 3,5 | 24,5 | 8 | 14 | 14 | 18 | 2,54 | FI-EGE-06LM-W3-SV | |
| | .24 | 4568 | | .14 | .96 | .31 | .55 | .55 | 13.3 | 5.59 | | |
| | 8 | 315 | M 12 x 1,5 | 5,5 | 26,5 | 12 | 17 | 17 | 30 | 4,34 | FI-EGE-08LM-W3-SV | |
| | .31 | 4568 | | .22 | 1.04 | .47 | .67 | .67 | 22.2 | 9.55 | | |
| | 10 | 315 | M 14 x 1,5 | 7 | 27,5 | 12 | 19 | 19 | 45 | 5,29 | FI-EGE-10LM-W3-SV | |
| | .39 | 4568 | | .28 | 1.08 | .47 | .75 | .75 | 33.3 | 11.63 | | |
| | 12 | 315 | M 16 x 1,5 | 9 | 30,5 | 12 | 22 | 22 | 65 | 7,95 | FI-EGE-12LM-W3-SV | |
| | .47 | 4568 | | .35 | 1.24 | .47 | .87 | .87 | 48.1 | 17.48 | | |
| | 15 | 315 | M 18 x 1,5 | 11 | 31,5 | 12 | 24 | 27 | 80 | 10,25 | FI-EGE-15LM-W3-SV | |
| | .59 | 4568 | | .43 | 1.24 | .47 | .94 | 1.06 | 59.2 | 22.55 | | |
| | 18 | 315 | M 22 x 1,5 | 14 | 31,5 | 14 | 27 | 32 | 140 | 14,82 | FI-EGE-18LM-W3-SV | |
| | .71 | 4568 | | .55 | 1.24 | .55 | 1.06 | 1.26 | 103.6 | 32.60 | | |
| | 22 | 160 | M 26 x 1,5 | 18 | 32,5 | 16 | 32 | 36 | 190 | 19,57 | FI-EGE-22LM-W3-SV | |
| | .87 | 2320 | | .71 | 1.28 | .63 | 1.26 | 1.42 | 140.6 | 43.06 | | |
| | 28 | 160 | M 33 x 2 | 23 | 35 | 18 | 41 | 41 | 340 | 28,94 | FI-EGE-28LM-W3-SV | |
| | 1.10 | 2320 | | .91 | 1.38 | .71 | 1.61 | 1.61 | 251.6 | 63.67 | | |
| | 35 | 160 | M 42 x 2 | 29,5 | 42,5 | 20 | 50 | 50 | 500 | 47,56 | FI-EGE-35LM-W3-SV | |
| | 1.38 | 2320 | | 1.16 | 1.67 | .79 | 1.97 | 1.97 | 370.0 | 104.63 | | |
| | 42 | 160 | M 48 x 2 | 35,5 | 46,5 | 22 | 55 | 60 | 630 | 67,00 | FI-EGE-42LM-W3-SV | |
| | 1.65 | 2320 | | 1.40 | 1.83 | .87 | 2.17 | 2.36 | 466.2 | 147.40 | | |
| S | 6 | PB630 | M 12 x 1,5 | 3,5 | 27 | 12 | 17 | 17 | 35 | 4,51 | FI-EGE-06SM-W3-SV | |
| | .24 | PB9135 | | .14 | 1.06 | .47 | .67 | .67 | 25.9 | 9.92 | | |
| | 8 | PB630 | M 14 x 1,5 | 4,5 | 29,5 | 12 | 19 | 19 | 55 | 6,30 | FI-EGE-08SM-W3-SV | |
| | .31 | PB9135 | | .18 | 1.16 | .47 | .75 | .75 | 40.7 | 13.85 | | |
| | 10 | PB630 | M 16 x 1,5 | 6,5 | 32 | 12 | 22 | 22 | 70 | 8,79 | FI-EGE-10SM-W3-SV | |
| | .39 | PB9135 | | .26 | 1.26 | .47 | .87 | .87 | 51.8 | 19.33 | | |
| | 12 | PB630 | M 18 x 1,5 | 7,5 | 34 | 12 | 24 | 24 | 110 | 11,24 | FI-EGE-12SM-W3-SV | |
| | .47 | PB9135 | | .30 | 1.34 | .47 | .94 | .94 | 81.4 | 24.73 | | |
| | 14 | PB630 | M 20 x 1,5 | 9,5 | 36,5 | 14 | 27 | 27 | 150 | 15,53 | FI-EGE-14SM-W3-SV | |
| | .55 | PB9135 | | .37 | 1.44 | .55 | 1.06 | 1.06 | 111.0 | 34.17 | | |
| | 16 | PB400 | M 22 x 1,5 | 11,5 | 37 | 14 | 27 | 30 | 170 | 17,47 | FI-EGE-16SM-W3-SV | |
| | .63 | PB5800 | | .45 | 1.46 | .55 | 1.06 | 1.18 | 125.8 | 38.43 | | |
| | 20 | PB400 | M 27 x 2 | 15,5 | 43 | 16 | 32 | 36 | 270 | 27,28 | FI-EGE-20SM-W3-SV | |
| | .79 | PB5800 | | .61 | 1.69 | .63 | 1.26 | 1.42 | 199.8 | 60.02 | | |
| | 25 | PB400 | M 33 x 2 | 18 | 48 | 18 | 41 | 46 | 410 | 51,00 | FI-EGE-25SM-W3-SV | |
| | .98 | PB5800 | | .71 | 1.89 | .71 | 1.61 | 1.81 | 303.4 | 112.20 | | |
| | 30 | PB400 | M 42 x 2 | 23,5 | 51 | 20 | 50 | 50 | 540 | 69,54 | FI-EGE-30SM-W3-SV | |
| | 1.18 | PB5800 | | .93 | 2.01 | .79 | 1.97 | 1.97 | 399.6 | 152.98 | | |
| | 38 | PB315 | M 48 x 2 | 29 | 60 | 22 | 55 | 60 | 700 | 99,38 | FI-EGE-38SM-W3-SV | |
| | 1.50 | PB4568 | | 1.14 | 2.36 | .87 | 2.17 | 2.36 | 518.0 | 218.64 | | |

Ordering Codes
***FI-EGE*-10*L*M*-W3*-SV**

- * Straight Male Stud Standpipe Fitting **FI-EGE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
Light Series **L**
Heavy Series **S**
- * Thread Type **M**
Metric Parallel Thread **M**
- If required, please indicate special sizes, e.g. M12x1.5!
- * Material Code **-W3**
Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **-SV**
Fitting body assembled with cutting ring and union nut on the standpipe **-SV**

¹ Weight including cutting ring and union nut on the standpipe.

² Standard scope of delivery: Fitting body assembled with cutting ring and union nut on the standpipe.

Please note: Standpipes are always factory-assembled with cutting rings and union nuts.

The union nut assembled on the standpipe has to be tightened by only 1/12 a turn (equivalent to 30°) beyond the fixed point.



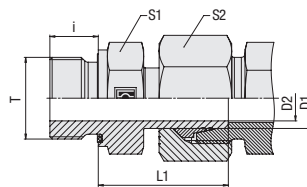
Male stud acc. to DIN 3852-1 (Form B) / ISO 9974-3 (Type B)
Port acc. to DIN 3852-1 (Form X) / ISO 9974-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
Please contact STAUFF prior to the assembly for further information.



Straight Male Stud Standpipe Fitting
Type FI-EGE-...-R-WD • Series L / S



Whitworth Parallel Pipe Thread (BSPP)

Profile Sealing Ring

Ordering Codes

***FI-EGE*-10*L*R*-WD*-B*-W3*-SV**

- * Straight Male Stud Standpipe Fitting **FI-EGE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
 Light Series
 Heavy Series **S**
- * Thread Type **R**
 Whitworth Parallel Pipe Thread (BSPP)
- If required, please indicate special sizes, e.g. R1/8!
- * Seal Type **-WD**
 Profile Sealing Ring
- * Seal Material **-B**
 NBR (Buna-N®)
-V
 FKM (Viton®)
-E
 EPDM
- * Material Code **-W3**
 Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **-SV**
 Fitting body assembled with cutting ring and union nut on the standpipe

Spare Parts / Accessories



Profile Sealing Ring
 Type **WDG**

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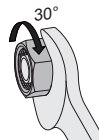
| Series | Tube OD (mm/in) D1 | PN (bar/psi) | Dimensions (mm/in) | | | | | | Torque (N-m/ft-lb) Thread T | Weight (kg/lbs) ca. per 100 ¹ | Ordering Codes ² |
|--------|--------------------------|-----------------|-----------------------|------|------|------|------|-------|-----------------------------------|--|-----------------------------|
| | | | Thread T | D2 | L1 | i | S1 | S2 | | | |
| L | 6 | 315 | G 1/8 | 3,5 | 24,5 | 8 | 14 | 14 | 18 | 2,29 | FI-EGE-06LR-WD-B-W3-SV |
| | .24 | 4568 | | .14 | .96 | .31 | .55 | .55 | 13.3 | 5.04 | |
| | 8 | 315 | G 1/4 | 4,5 | 29,5 | 12 | 19 | 17 | 35 | 4,43 | FI-EGE-08LR-WD-B-W3-SV |
| | .31 | 4568 | | .18 | 1.16 | .47 | .75 | .67 | 25.9 | 9.75 | |
| | 10 | 315 | G 1/4 | 7 | 27,5 | 12 | 19 | 19 | 35 | 5,04 | FI-EGE-10LR-WD-B-W3-SV |
| | .39 | 4568 | | .28 | 1.08 | .47 | .75 | .75 | 25.9 | 11.09 | |
| | 12 | 315 | G 3/8 | 7,5 | 34 | 12 | 22 | 22 | 70 | 9,23 | FI-EGE-12LR-WD-B-W3-SV |
| | .47 | 4568 | | .30 | 1.34 | .47 | .87 | .87 | 51.8 | 20.31 | |
| | 15 | 315 | G 1/2 | 11 | 32 | 14 | 27 | 27 | 90 | 13,01 | FI-EGE-15LR-WD-B-W3-SV |
| | .59 | 4568 | | .43 | 1.26 | .55 | 1.06 | 1.06 | 66.6 | 28.62 | |
| | 18 | 315 | G 1/2 | 14 | 31,5 | 14 | 27 | 27 | 90 | 13,89 | FI-EGE-18LR-WD-B-W3-SV |
| | .71 | 4568 | | .55 | 1.24 | .55 | 1.06 | 1.06 | 66.6 | 30.55 | |
| | 22 | 160 | G 3/4 | 18 | 32,5 | 16 | 32 | 36 | 180 | 19,63 | FI-EGE-22LR-WD-B-W3-SV |
| | .87 | 2320 | | .71 | 1.28 | .63 | 1.26 | 1.42 | 133.2 | 43.19 | |
| | 28 | 160 | G 1 | 23 | 35 | 18 | 41 | 41 | 310 | 28,64 | FI-EGE-28LR-WD-B-W3-SV |
| | 1.10 | 2320 | | .91 | 1.38 | .71 | 1.61 | 1.61 | 229.4 | 63.02 | |
| | 35 | 160 | G 1 1/4 | 29,5 | 42,5 | 20 | 50 | 50 | 450 | 46,03 | FI-EGE-35LR-WD-B-W3-SV |
| | 1.38 | 2320 | | 1.16 | 1.67 | .79 | 1.97 | 1.97 | 333.0 | 101.26 | |
| 42 | 160 | G 1 1/2 | 35,5 | 46,5 | 22 | 55 | 60 | 540 | 69,40 | FI-EGE-42LR-WD-B-W3-SV | |
| 1.65 | 2320 | | 1.40 | 1.83 | .87 | 2.17 | 2.36 | 399.6 | 152.68 | | |
| S | 6 | 630 | G 1/4 | 3,5 | 27 | 12 | 19 | 17 | 55 | 4,95 | FI-EGE-06SR-WD-B-W3-SV |
| | .24 | 9135 | | .14 | 1.06 | .47 | .75 | .67 | 40.7 | 10.89 | |
| | 8 | 630 | G 1/4 | 4,5 | 29,5 | 12 | 19 | 19 | 55 | 5,95 | FI-EGE-08SR-WD-B-W3-SV |
| | .31 | 9135 | | .18 | 1.16 | .47 | .75 | .75 | 40.7 | 13.09 | |
| | 10 | 630 | G 3/8 | 6,5 | 32 | 12 | 22 | 22 | 80 | 8,71 | FI-EGE-10SR-WD-B-W3-SV |
| | .39 | 9135 | | .26 | 1.26 | .47 | .87 | .87 | 59.2 | 19.15 | |
| | 12 | 630 | G 3/8 | 7,5 | 34 | 12 | 22 | 24 | 80 | 10,02 | FI-EGE-12SR-WD-B-W3-SV |
| | .47 | 9135 | | .30 | 1.34 | .47 | .87 | .94 | 59.2 | 22.05 | |
| | 14 | 630 | G 1/2 | 9,5 | 36,5 | 14 | 27 | 27 | 115 | 15,40 | FI-EGE-14SR-WD-B-W3-SV |
| | .55 | 9135 | | .37 | 1.44 | .55 | 1.06 | 1.06 | 85.1 | 33.88 | |
| | 16 | 400 | G 1/2 | 11,5 | 37 | 14 | 27 | 30 | 115 | 16,88 | FI-EGE-16SR-WD-B-W3-SV |
| | .63 | 5800 | | .45 | 1.46 | .55 | 1.06 | 1.18 | 85.1 | 37.13 | |
| | 20 | 400 | G 3/4 | 15,5 | 43 | 16 | 32 | 36 | 180 | 26,88 | FI-EGE-20SR-WD-B-W3-SV |
| | .79 | 5800 | | .61 | 1.69 | .63 | 1.26 | 1.42 | 133.2 | 59.14 | |
| | 25 | 400 | G 1 | 18 | 48 | 18 | 41 | 46 | 310 | 48,81 | FI-EGE-25SR-WD-B-W3-SV |
| | .98 | 5800 | | .71 | 1.89 | .71 | 1.61 | 1.81 | 229.4 | 107.38 | |
| | 30 | 400 | G 1 1/4 | 23,5 | 51 | 20 | 50 | 50 | 450 | 62,10 | FI-EGE-30SR-WD-B-W3-SV |
| | 1.18 | 5800 | | .93 | 2.01 | .79 | 1.97 | 1.97 | 333.0 | 202.62 | |
| 38 | 315 | G 1 1/2 | 29 | 60 | 22 | 55 | 60 | 540 | 97,70 | FI-EGE-38SR-WD-B-W3-SV | |
| 1.50 | 4568 | | 1.14 | 2.36 | .87 | 2.17 | 2.36 | 399.6 | 214.94 | | |

¹Weight including cutting ring and union nut on the standpipe.

²Standard scope of delivery: Fitting body assembled with cutting ring and union nut on the standpipe.

Please note: Standpipes are always factory-assembled with cutting rings and union nuts.

The union nut assembled on the standpipe has to be tightened by only 1/12 a turn (equivalent to 30°) beyond the fixed point.

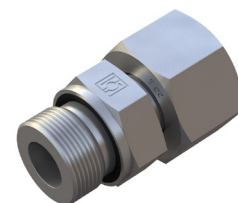
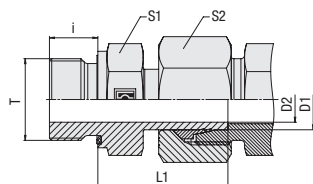


Male stud acc. to ISO 1179-2 (Type E)
 Port acc. to ISO 1179-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended. Please contact STAUFF prior to the assembly for further information.



**Straight Male Stud Standpipe Fitting
Type FI-EGE-...-M-WD • Series L / S**

Profile Sealing Ring
Metric Parallel Thread

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) Thread T | D2 | L1 | i | S1 | S2 | Torque (N·m/ft·lb) | Weight (kg/lbs) Ca. per 100 ¹ | Ordering Codes ² |
|--------|--------------------|-----------------|-----------------------------------|------|------|-----|------|------|-----------------------|--|-----------------------------|
| | | | | | | | | | | | |
| L | 6 | 315 | M 10 x 1 | 3,5 | 24,5 | 8 | 14 | 14 | 18 | 2,30 | FI-EGE-06LM-WD-B-W3-SV |
| | .24 | 4568 | | .14 | .96 | .31 | .55 | .55 | 13.3 | 5,06 | |
| | 8 | 315 | M 12 x 1,5 | 5,5 | 26,5 | 12 | 17 | 17 | 25 | 3,90 | FI-EGE-08LM-WD-B-W3-SV |
| | .31 | 4568 | | .22 | 1.04 | .47 | .67 | .67 | 18.5 | 8.58 | |
| | 10 | 315 | M 14 x 1,5 | 7 | 27,5 | 12 | 19 | 19 | 45 | 4,99 | FI-EGE-10LM-WD-B-W3-SV |
| | .39 | 4568 | | .28 | 1.08 | .47 | .75 | .75 | 33.3 | 10.97 | |
| | 12 | 315 | M 16 x 1,5 | 9 | 30,5 | 12 | 22 | 22 | 55 | 7,18 | FI-EGE-12LM-WD-B-W3-SV |
| | .47 | 4568 | | .35 | 1.20 | .47 | .87 | .87 | 40.7 | 15.79 | |
| | 15 | 315 | M 18 x 1,5 | 11 | 31,5 | 12 | 24 | 27 | 70 | 10,25 | FI-EGE-15LM-WD-B-W3-SV |
| | .59 | 4568 | | .43 | 1.24 | .47 | .94 | 1.06 | 51.8 | 22.55 | |
| | 18 | 315 | M 22 x 1,5 | 14 | 31,5 | 14 | 27 | 32 | 125 | 13,62 | FI-EGE-18LM-WD-B-W3-SV |
| | .71 | 4568 | | .55 | 1.24 | .55 | 1.06 | 1.26 | 92.5 | 29.97 | |
| | 22 | 160 | M 26 x 1,5 | 18 | 32,5 | 16 | 32 | 36 | 180 | 10,60 | FI-EGE-22LM-WD-B-W3-SV |
| | .87 | 2320 | | .71 | 1.28 | .63 | 1.26 | 1.42 | 133.2 | 23.32 | |
| | 28 | 160 | M 33 x 2 | 23 | 35 | 18 | 41 | 41 | 310 | 30,26 | FI-EGE-28LM-WD-B-W3-SV |
| | 1.10 | 2320 | | .91 | 1.38 | .71 | 1.61 | 1.61 | 229.4 | 66.57 | |
| | 35 | 160 | M 42 x 2 | 29,5 | 42,5 | 20 | 50 | 50 | 450 | 47,17 | FI-EGE-35LM-WD-B-W3-SV |
| | 1.38 | 2320 | | 1.16 | 1.67 | .79 | 1.97 | 1.97 | 333.0 | 103.77 | |
| | 42 | 160 | M 48 x 2 | 35,5 | 46,5 | 22 | 55 | 60 | 540 | 77,85 | FI-EGE-42LM-WD-B-W3-SV |
| | 1.65 | 2320 | | 1.40 | 1.83 | .87 | 2.17 | 2.36 | 399.6 | 171.26 | |
| S | 6 | 630 | M 12 x 1,5 | 3,5 | 27 | 12 | 17 | 17 | 35 | 4,34 | FI-EGE-06SM-WD-B-W3-SV |
| | .24 | 9135 | | .14 | 1.06 | .47 | .67 | .67 | 25.9 | 9.54 | |
| | 8 | 630 | M 14 x 1,5 | 4,5 | 29,5 | 12 | 19 | 19 | 55 | 5,90 | FI-EGE-08SM-WD-B-W3-SV |
| | .31 | 9135 | | .18 | 1.16 | .47 | .75 | .75 | 40.7 | 12.98 | |
| | 10 | 630 | M 16 x 1,5 | 6,5 | 32 | 12 | 22 | 22 | 70 | 8,20 | FI-EGE-10SM-WD-B-W3-SV |
| | .39 | 9135 | | .26 | 1.26 | .47 | .87 | .87 | 51.8 | 18.04 | |
| | 12 | 630 | M 18 x 1,5 | 7,5 | 34 | 12 | 24 | 24 | 90 | 10,97 | FI-EGE-12SM-WD-B-W3-SV |
| | .47 | 9135 | | .30 | 1.34 | .47 | .94 | .94 | 66.6 | 24.14 | |
| | 14 | 630 | M 20 x 1,5 | 9,5 | 36,5 | 14 | 27 | 27 | 125 | 15,57 | FI-EGE-14SM-WD-B-W3-SV |
| | .55 | 9135 | | .37 | 1.44 | .55 | 1.06 | 1.06 | 92.5 | 34.25 | |
| | 16 | 630 | M 22 x 1,5 | 11,5 | 37 | 14 | 27 | 30 | 135 | 16,20 | FI-EGE-16SM-WD-B-W3-SV |
| | .63 | 9135 | | .45 | 1.46 | .55 | 1.06 | 1.18 | 99.9 | 35.64 | |
| | 20 | 400 | M 27 x 2 | 15,5 | 43 | 16 | 32 | 36 | 180 | 27,06 | FI-EGE-20SM-WD-B-W3-SV |
| | .79 | 5800 | | .61 | 1.69 | .63 | 1.26 | 1.42 | 133.2 | 59.54 | |
| | 25 | 400 | M 33 x 2 | 18 | 48 | 18 | 41 | 46 | 310 | 48,60 | FI-EGE-25SM-WD-B-W3-SV |
| | .98 | 5800 | | .71 | 1.89 | .71 | 1.61 | 1.81 | 229.4 | 106.92 | |
| | 30 | 400 | M 42 x 2 | 23,5 | 51 | 20 | 50 | 50 | 450 | 69,15 | FI-EGE-30SM-WD-B-W3-SV |
| | 1.18 | 5800 | | .93 | 2.01 | .79 | 1.97 | 1.97 | 333.0 | 152.13 | |
| | 38 | 315 | M 48 x 2 | 29 | 60 | 22 | 55 | 60 | 540 | 110,29 | FI-EGE-38SM-WD-B-W3-SV |
| | 1.50 | 4568 | | 1.14 | 2.36 | .87 | 2.17 | 2.36 | 399.6 | 242.65 | |

Ordering Codes
***FI-EGE*-10*L*M*-WD*-B*-W3*-SV**

- * Straight Male Stud Standpipe Fitting **FI-EGE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
Light Series **L**
Heavy Series **S**
- * Thread Type **M**
Metric Parallel Thread **M**
- If required, please indicate special sizes, e.g. M12x1.5!
- * Seal Type **-WD**
Profile Sealing Ring **-WD**
- * Seal Material **-B**
NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code **-W3**
Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **-SV**
Fitting body assembled with cutting ring and union nut on the standpipe **-SV**

Spare Parts / Accessories

 Profile Sealing Ring
Type **WDG**

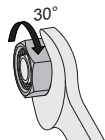
Page 206

¹ Weight including cutting ring and union nut on the standpipe.

² Standard scope of delivery: Fitting body assembled with cutting ring and union nut on the standpipe.

Please note: Standpipes are always factory-assembled with cutting rings and union nuts.

The union nut assembled on the standpipe has to be tightened by only 1/12 a turn (equivalent to 30°) beyond the fixed point.

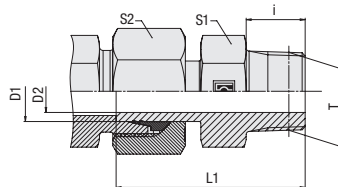

 Male stud acc. to ISO 9974-2 (Type E)
Port acc. to ISO 9974-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended. Please contact STAUFF prior to the assembly for further information.



Straight Male Stud Standpipe Fitting
Type FI-EGE-...-N • Series L / S



NPT Thread

Ordering Codes

***FI-EGE*-10*L*1/4*N*-W3*-SV**

- * Straight Male Stud Standpipe Fitting **FI-EGE**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L** Light Series
S Heavy Series
- * Thread Size **1/4** acc. to dimension table
Please always indicate thread sizes, e.g. 1/4!
- * Thread Type **N** NPT Thread
- * Material Code **-W3** Steel, zinc/nickel-plated
Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **-SV** Fitting body assembled with cutting ring and union nut on the standpipe

| Series | Tube OD | | PN | Dimensions | | | | | Weight (kg/lbs) ca. per 100 ¹ | Ordering Codes ² | |
|--------|---------|---------|-----------|------------|----------|------|------|------|--|-----------------------------|------------------------|
| | (mm/in) | (mm/in) | | (mm/in) | Thread T | D2 | L1 | i | | | S1 |
| L | 6 | 315 | 4567,5 | 1/8 NPT | 3,3 | 33 | 10 | 11 | 14 | 2,27 | FI-EGE-06L1/8N-W3-SV |
| | .24 | | | | .13 | 1.30 | .39 | .43 | .55 | 4.99 | |
| | 8 | 315 | 4567,5 | 1/4 NPT | 4 | 40 | 15,5 | 14 | 17 | 3,93 | FI-EGE-08L1/4N-W3-SV |
| | .31 | | | | .16 | 1.57 | .61 | .55 | .67 | 8.64 | |
| | 10 | 315 | 4567,5 | 1/4 NPT | 6,5 | 41 | 15,5 | 14 | 19 | 4,46 | FI-EGE-10L1/4N-W3-SV |
| | .39 | | | | .26 | 1.61 | .61 | .55 | .75 | 9.81 | |
| | 12 | 315 | 4567,5 | 3/8 NPT | 7 | 42 | 15,5 | 19 | 22 | 6,80 | FI-EGE-12L3/8N-W3-SV |
| | .47 | | | | .28 | 1.65 | .61 | .75 | .87 | 14.97 | |
| | 15 | 315 | 4567,5 | 1/2 NPT | 10 | 46,5 | 20 | 22 | 27 | 10,48 | FI-EGE-15L1/2N-W3-SV |
| | .59 | | | | .39 | 1.83 | .79 | .87 | 1.06 | 23.05 | |
| | 18 | 315 | 4567,5 | 1/2 NPT | 13 | 49,5 | 20 | 22 | 32 | 13,44 | FI-EGE-18L1/2N-W3-SV |
| | .71 | | | | .51 | 1.95 | .79 | .87 | 1.26 | 29.56 | |
| | 22 | 160 | 2320 | 3/4 NPT | 16,5 | 49 | 20 | 27 | 36 | 18,41 | FI-EGE-22L3/4N-W3-SV |
| | .87 | | | | .65 | 1.93 | .79 | 1.06 | 1.42 | 40.51 | |
| | 28 | 160 | 2320 | 1 NPT | 22 | 55,5 | 25 | 36 | 41 | 25,80 | FI-EGE-28L1N-W3-SV |
| | 1.10 | | | | .87 | 2.19 | .98 | 1.42 | 1.61 | 56.76 | |
| | 35 | 160 | 2320 | 1 1/4 NPT | 28 | 74,1 | 25,6 | 46 | 50 | 42,40 | FI-EGE-35L1-1/4N-W3-SV |
| | 1.38 | | | | 1.10 | 2.92 | 1.01 | 1.81 | 1.97 | 93.28 | |
| 42 | 160 | 2320 | 1 1/2 NPT | 34 | 78,5 | 26 | 50 | 60 | 62,33 | FI-EGE-42L1-1/2N-W3-SV | |
| 1.65 | | | | 1.34 | 3.09 | 1.02 | 1.97 | 2.36 | 137.13 | | |
| S | 6 | 630 | 9135 | 1/4 NPT | 3 | 45,1 | 15,1 | 14 | 17 | 1,92 | FI-EGE-06S1/4N-W3-SV |
| | .24 | | | | .12 | 1.78 | .59 | .55 | .67 | 4.23 | |
| | 8 | 630 | 9135 | 1/4 NPT | 4,3 | 40 | 15,5 | 14 | 19 | 4,45 | FI-EGE-08S1/4N-W3-SV |
| | .31 | | | | .17 | 1.57 | .61 | .55 | .75 | 9.78 | |
| | 10 | 630 | 9135 | 3/8 NPT | 6 | 44,5 | 15,5 | 19 | 22 | 7,29 | FI-EGE-10S3/8N-W3-SV |
| | .39 | | | | .24 | 1.75 | .61 | .75 | .87 | 16.04 | |
| | 12 | 630 | 9135 | 3/8 NPT | 7,3 | 46,5 | 15,5 | 19 | 24 | 8,49 | FI-EGE-12S3/8N-W3-SV |
| | .47 | | | | .29 | 1.83 | .61 | .75 | .94 | 18.67 | |
| | 14 | 630 | 9135 | 1/2 NPT | 10,5 | 53,5 | 20 | 22 | 27 | 12,81 | FI-EGE-14S1/2N-W3-SV |
| | .55 | | | | .41 | 2.11 | .79 | .87 | 1.06 | 28.19 | |
| | 16 | 630 | 9135 | 1/2 NPT | 13,5 | 58 | 20 | 22 | 30 | 16,52 | FI-EGE-16S1/2N-W3-SV |
| | .63 | | | | .53 | 2.28 | .79 | .87 | 1.18 | 36.34 | |
| | 20 | 400 | 5800 | 3/4 NPT | 17,5 | 68 | 25 | 27 | 36 | 24,50 | FI-EGE-20S3/4N-W3-SV |
| | .79 | | | | .69 | 2.68 | .98 | 1.06 | 1.42 | 53.90 | |
| | 25 | 400 | 5800 | 1 NPT | 17,5 | 68 | 25 | 36 | 46 | 41,13 | FI-EGE-25S1N-W3-SV |
| | .98 | | | | .69 | 2.68 | .98 | 1.42 | 1.81 | 90.49 | |
| | 30 | 400 | 5800 | 1 1/4 NPT | 22 | 70,5 | 26 | 46 | 50 | 52,80 | FI-EGE-30S1-1/4N-W3-SV |
| | 1.18 | | | | .87 | 2.78 | 1.02 | 1.81 | 1.97 | 116.16 | |
| 38 | 400 | 5800 | 1 1/2 NPT | 29 | 92 | 26 | 50 | 60 | 83,60 | FI-EGE-38S1-1/2N-W3-SV | |
| 1.50 | | | | 1.14 | 3.62 | 1.02 | 1.97 | 2.36 | 183.92 | | |

¹ Weight including cutting ring and union nut on the standpipe.

² Standard scope of delivery: Fitting body assembled with cutting ring and union nut on the standpipe.

Please note: Standpipes are always factory-assembled with cutting rings and union nuts.

The union nut assembled on the standpipe has to be tightened by only 1/12 a turn (equivalent to 30°) beyond the fixed point.

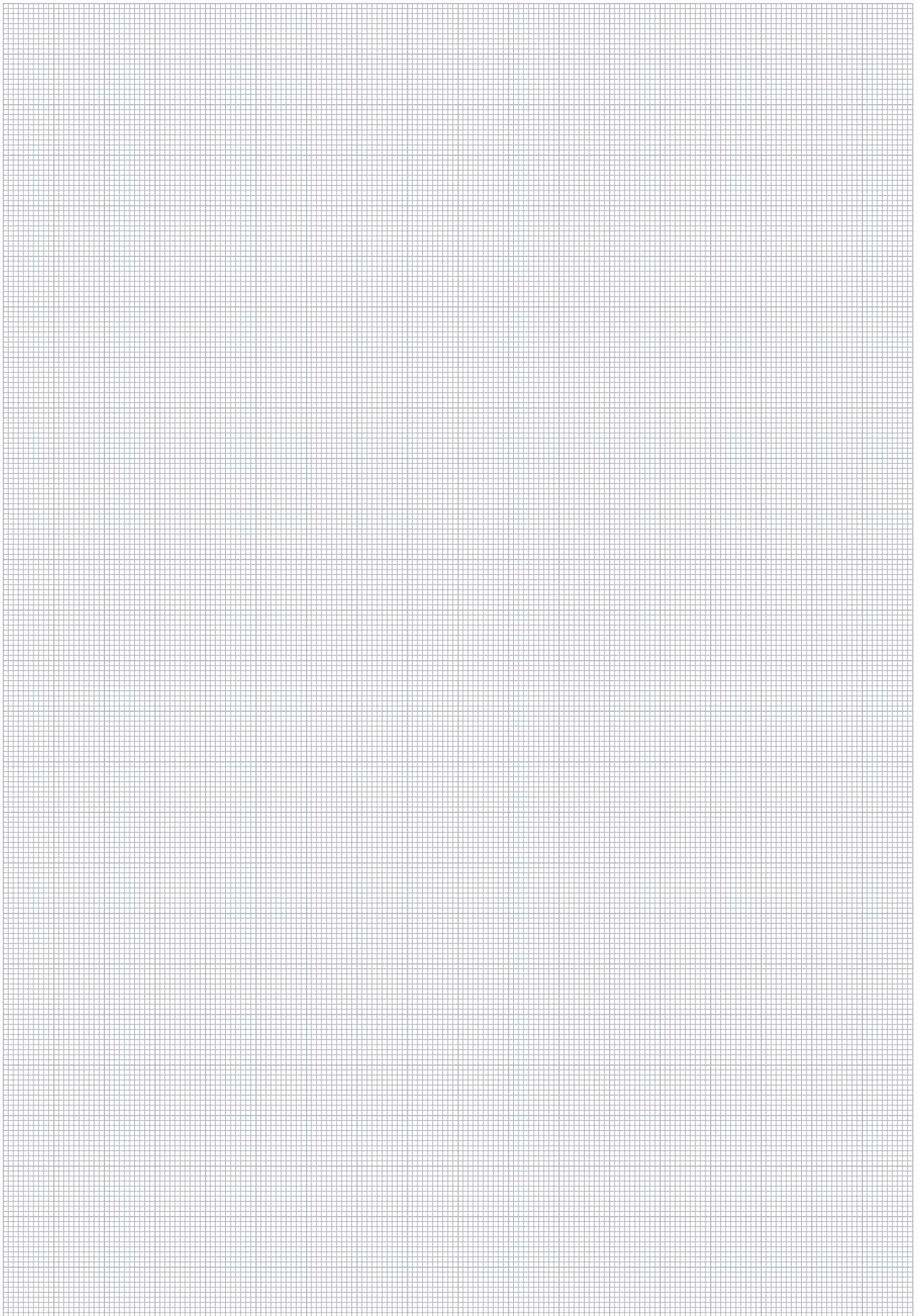


Male stud acc. to ANSI/ASME B1.20.1-1983
 Port acc. to ANSI/ASME B1.20.1-1983

Suitable liquid / plastic sealant required.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
 Please contact STAUFF prior to the assembly for further information.

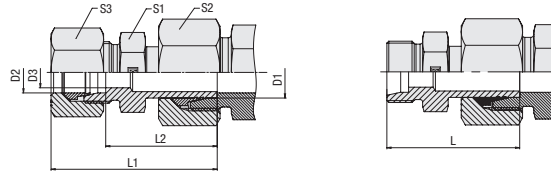
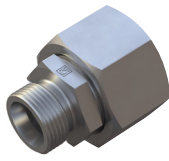




I



Straight Standpipe Reducer Type FI-REDS • Series L



Ordering Codes

***FI-REDS*-10/*08*L*-W3*-SV+MS**

- * Straight Standpipe Reducer **FI-REDS**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Outside Tube Diameter D2 (in mm) **08**
- * Series **L**
S Light Series (pages 138/139)
S Heavy Series (pages 140/141)
- * Material Code **-W3**
-W3 Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **-SV**
-SV Fitting body assembled with cutting ring and union nut on the standpipe
- SV+MS** Fitting body assembled with cutting rings and union nuts on all ends

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

| Series | Tube OD (mm/in) | | PN (bar/psi) | Dimensions (mm/in) | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|------|-----------------|-----------------------|------|-----------------|------|------|------|-------|--|-----------------------------|
| | D1 | D2 | | D3 | L | L1 ¹ | L2 | S1 | S2 | S3 | | |
| L | 8 | 6 | 500 | 4 | 33 | 40,5 | 27,5 | 12 | 17 | 14 | 3,15 | FI-REDS-08/06L-W3-SV |
| | .31 | .24 | 7250 | .16 | 1.30 | 1.59 | 1.08 | .47 | .67 | .55 | 6,93 | |
| | 10 | 6 | 500 | 4 | 34 | 41,5 | 28,5 | 12 | 19 | 14 | 4,00 | FI-REDS-10/06L-W3-SV |
| | .39 | .24 | 7250 | .16 | 1.34 | 1.63 | 1.12 | .47 | .75 | .55 | 8,79 | |
| | 10 | 8 | 500 | 6 | 35 | 42,5 | 28,5 | 14 | 19 | 17 | 3,97 | FI-REDS-10/08L-W3-SV |
| | .39 | .31 | 7250 | .24 | 1.38 | 1.67 | 1.12 | .55 | .75 | .67 | 8,74 | |
| | 12 | 6 | 400 | 4 | 37 | 44,5 | 28 | 14 | 22 | 14 | 4,75 | FI-REDS-12/06L-W3-SV |
| | .47 | .24 | 5800 | .16 | 1.46 | 1.75 | 1.10 | .55 | .87 | .55 | 10,44 | |
| | 12 | 8 | 400 | 6 | 36 | 44,5 | 29 | 14 | 22 | 17 | 5,35 | FI-REDS-12/08L-W3-SV |
| | .47 | .31 | 5800 | .24 | 1.42 | 1.75 | 1.14 | .55 | .87 | .67 | 11,78 | |
| | 12 | 10 | 400 | 8 | 37 | 45,5 | 30 | 17 | 22 | 19 | 5,48 | FI-REDS-12/10L-W3-SV |
| | .47 | .39 | 5800 | .31 | 1.46 | 1.79 | 1.18 | .67 | .87 | .75 | 12,05 | |
| | 15 | 6 | 400 | 4 | 38 | 46 | 28 | 17 | 27 | 14 | 7,53 | FI-REDS-15/06L-W3-SV |
| | .59 | .24 | 5800 | .16 | 1.50 | 1.81 | 1.10 | .67 | 1.06 | .55 | 16,57 | |
| | 15 | 8 | 400 | 6 | 38 | 46 | 29 | 17 | 27 | 17 | 7,73 | FI-REDS-15/08L-W3-SV |
| | .59 | .31 | 5800 | .24 | 1.50 | 1.81 | 1.14 | .67 | 1.06 | .67 | 17,01 | |
| | 15 | 10 | 400 | 8 | 37 | 47 | 30 | 17 | 27 | 19 | 8,24 | FI-REDS-15/10L-W3-SV |
| | .59 | .39 | 5800 | .31 | 1.46 | 1.85 | 1.18 | .67 | 1.06 | .75 | 18,12 | |
| | 15 | 12 | 400 | 10 | 38 | 48 | 31 | 19 | 27 | 22 | 8,27 | FI-REDS-15/12L-W3-SV |
| | .59 | .47 | 5800 | .39 | 1.50 | 1.89 | 1.22 | .75 | 1.06 | .87 | 18,19 | |
| | 18 | 6 | 400 | 4 | 37,5 | 45,5 | 30 | 19 | 32 | 14 | 10,36 | FI-REDS-18/06L-W3-SV |
| | .71 | .24 | 5800 | .16 | 1.48 | 1.79 | 1.18 | .75 | 1.26 | .55 | 22,80 | |
| | 18 | 8 | 400 | 6 | 37,5 | 45,5 | 31 | 19 | 32 | 17 | 10,84 | FI-REDS-18/08L-W3-SV |
| | .71 | .31 | 5800 | .24 | 1.48 | 1.79 | 1.22 | .75 | 1.26 | .67 | 23,85 | |
| 18 | 10 | 400 | 8 | 39 | 46,5 | 32 | 19 | 32 | 19 | 10,98 | FI-REDS-18/10L-W3-SV | |
| .71 | .39 | 5800 | .31 | 1.54 | 1.83 | 1.26 | .75 | 1.26 | .75 | 24,16 | | |
| 18 | 12 | 400 | 10 | 40,5 | 46,5 | 33,5 | 19 | 32 | 22 | 12,01 | FI-REDS-18/12L-W3-SV | |
| .71 | .47 | 5800 | .39 | 1.59 | 1.83 | 1.32 | .75 | 1.26 | .87 | 26,43 | | |
| 18 | 15 | 400 | 12 | 41 | 47,5 | 34 | 24 | 32 | 27 | 12,76 | FI-REDS-18/15L-W3-SV | |
| .71 | .59 | 5800 | .47 | 1.61 | 1.87 | 1.34 | .94 | 1.26 | 1.06 | 28,07 | | |
| 22 | 6 | 250 | 4 | 39,5 | 47 | 32 | 24 | 36 | 14 | 13,75 | FI-REDS-22/06L-W3-SV | |
| .87 | .24 | 3625 | .16 | 1.56 | 1.85 | 1.26 | .94 | 1.42 | .55 | 30,25 | | |
| 22 | 8 | 250 | 6 | 43 | 46,5 | 34 | 24 | 36 | 17 | 19,87 | FI-REDS-22/08L-W3-SV | |
| .87 | .31 | 3625 | .24 | 1.69 | 1.83 | 1.34 | .94 | 1.42 | .67 | 43,72 | | |
| 22 | 10 | 250 | 8 | 41 | 47,5 | 34 | 24 | 36 | 19 | 15,17 | FI-REDS-22/10L-W3-SV | |
| .87 | .39 | 3625 | .31 | 1.61 | 1.87 | 1.34 | .94 | 1.42 | .75 | 33,37 | | |
| 22 | 12 | 250 | 10 | 39,5 | 47,5 | 34,5 | 24 | 36 | 22 | 15,45 | FI-REDS-22/12L-W3-SV | |
| .87 | .47 | 3625 | .39 | 1.56 | 1.87 | 1.36 | .94 | 1.42 | .87 | 34,00 | | |
| 22 | 15 | 250 | 12 | 40,5 | 48,5 | 36 | 24 | 36 | 27 | 16,02 | FI-REDS-22/15L-W3-SV | |
| .87 | .59 | 3625 | .47 | 1.59 | 1.91 | 1.42 | .94 | 1.42 | 1.06 | 35,24 | | |
| 22 | 18 | 250 | 15 | 44 | 50,5 | 36,5 | 27 | 36 | 32 | 17,93 | FI-REDS-22/18L-W3-SV | |
| .87 | .71 | 3625 | .59 | 1.73 | 1.99 | 1.44 | 1.06 | 1.42 | 1.26 | 39,45 | | |

¹ Approximate dimension in assembled condition.

² Weight including cutting ring and union nut on the standpipe.

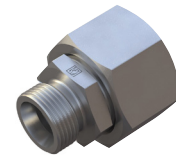
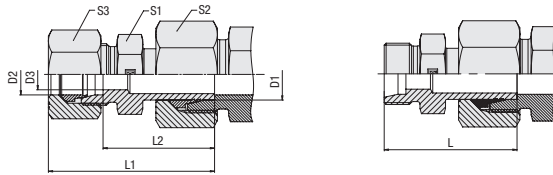
³ Standard scope of delivery: Fitting body assembled with cutting ring and union nut on the standpipe.

Please note: Standpipes are always factory-assembled with cutting rings and union nuts.

The union nut assembled on the standpipe has to be tightened by only 1/12 a turn (equivalent to 30°) beyond the fixed point.



Straight Standpipe Reducer
Type FI-REDS ■ Series L



| Series | Tube OD (mm/in) | | PN (bar/psi) | Dimensions (mm/in) | | | | | | | Weight (^{kg} /lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|------|-----------------|-----------------------|------|-----------------|------|------|------|------|---|-----------------------------|
| | D1 | D2 | | D3 | L | L1 ¹ | L2 | S1 | S2 | S3 | | |
| L | 28 | 6 | 250 | 4 | 41 | 49 | 34,5 | 30 | 41 | 14 | 18,12 | FI-REDS-28/06L-W3-SV |
| | 1.10 | .24 | 3625 | .16 | 1.61 | 1.93 | 1.36 | 1.18 | 1.61 | .55 | 39.85 | |
| L | 28 | 8 | 250 | 6 | 42 | 50 | 34,5 | 30 | 41 | 17 | 18,24 | FI-REDS-28/08L-W3-SV |
| | 1.10 | .31 | 3625 | .24 | 1.65 | 1.97 | 1.36 | 1.18 | 1.61 | .67 | 40.12 | |
| L | 28 | 10 | 250 | 8 | 41 | 49 | 35,5 | 30 | 41 | 19 | 18,45 | FI-REDS-28/10L-W3-SV |
| | 1.10 | .39 | 3625 | .31 | 1.61 | 1.93 | 1.40 | 1.18 | 1.61 | .75 | 40.58 | |
| L | 28 | 12 | 250 | 10 | 41 | 49 | 35,5 | 30 | 41 | 22 | 19,79 | FI-REDS-28/12L-W3-SV |
| | 1.10 | .47 | 3625 | .39 | 1.61 | 1.93 | 1.40 | 1.18 | 1.61 | .87 | 43.54 | |
| L | 28 | 15 | 250 | 12 | 42 | 50 | 36,5 | 30 | 41 | 27 | 20,30 | FI-REDS-28/15L-W3-SV |
| | 1.10 | .59 | 3625 | .47 | 1.65 | 1.97 | 1.44 | 1.18 | 1.61 | 1.06 | 44.66 | |
| L | 28 | 18 | 250 | 15 | 43,5 | 52 | 36 | 30 | 41 | 32 | 20,48 | FI-REDS-28/18L-W3-SV |
| | 1.10 | .71 | 3625 | .59 | 1.71 | 2.05 | 1.42 | 1.18 | 1.61 | 1.26 | 45.05 | |
| L | 28 | 22 | 250 | 19 | 45,5 | 54 | 38 | 32 | 41 | 36 | 23,25 | FI-REDS-28/22L-W3-SV |
| | 1.10 | .87 | 3625 | .75 | 1.79 | 2.13 | 1.50 | 1.26 | 1.61 | 1.42 | 51.14 | |
| L | 35 | 6 | 250 | 4 | 48 | 56 | 40,5 | 36 | 50 | 14 | 29,53 | FI-REDS-35/06L-W3-SV |
| | 1.38 | .24 | 3625 | .16 | 1.89 | 2.20 | 1.59 | 1.42 | 1.97 | .55 | 64.97 | |
| L | 35 | 8 | 250 | 6 | 48 | 56 | 40,5 | 36 | 50 | 17 | 28,78 | FI-REDS-35/08L-W3-SV |
| | 1.38 | .31 | 3625 | .24 | 1.89 | 2.20 | 1.59 | 1.42 | 1.97 | .67 | 63.32 | |
| L | 35 | 10 | 250 | 8 | 49 | 57 | 41,5 | 36 | 50 | 19 | 31,70 | FI-REDS-35/10L-W3-SV |
| | 1.38 | .39 | 3625 | .31 | 1.93 | 2.24 | 1.63 | 1.42 | 1.97 | .75 | 69.74 | |
| L | 35 | 12 | 250 | 10 | 47 | 55 | 41,5 | 36 | 50 | 22 | 32,26 | FI-REDS-35/12L-W3-SV |
| | 1.38 | .47 | 3625 | .39 | 1.85 | 2.17 | 1.63 | 1.42 | 1.97 | .87 | 70.97 | |
| L | 35 | 15 | 250 | 12 | 48,5 | 56,5 | 42,5 | 36 | 50 | 27 | 28,97 | FI-REDS-35/15L-W3-SV |
| | 1.38 | .59 | 3625 | .47 | 1.91 | 2.22 | 1.67 | 1.42 | 1.97 | 1.06 | 63.73 | |
| L | 35 | 18 | 250 | 15 | 49,5 | 58,5 | 42 | 36 | 50 | 32 | 32,20 | FI-REDS-35/18L-W3-SV |
| | 1.38 | .71 | 3625 | .59 | 1.95 | 2.30 | 1.65 | 1.42 | 1.97 | 1.26 | 70.83 | |
| L | 35 | 22 | 250 | 19 | 51,5 | 60,5 | 44 | 36 | 50 | 36 | 32,94 | FI-REDS-35/22L-W3-SV |
| | 1.38 | .87 | 3625 | .75 | 2.03 | 2.38 | 1.73 | 1.42 | 1.97 | 1.42 | 72.47 | |
| L | 35 | 28 | 250 | 24 | 52,5 | 61,5 | 44 | 41 | 50 | 41 | 34,18 | FI-REDS-35/28L-W3-SV |
| | 1.38 | 1.10 | 3625 | .94 | 2.07 | 2.42 | 1.73 | 1.61 | 1.97 | 1.61 | 75.19 | |
| L | 42 | 10 | 250 | 8 | 51 | 59 | 45 | 46 | 60 | 19 | 45,84 | FI-REDS-42/10L-W3-SV |
| | 1.65 | .39 | 3625 | .31 | 2.01 | 2.32 | 1.77 | 1.81 | 2.36 | .75 | 100.85 | |
| L | 42 | 12 | 250 | 10 | 52 | 60 | 45 | 46 | 60 | 22 | 56,37 | FI-REDS-42/12L-W3-SV |
| | 1.65 | .47 | 3625 | .39 | 2.05 | 2.36 | 1.77 | 1.81 | 2.36 | .87 | 124.01 | |
| L | 42 | 15 | 250 | 12 | 52 | 60 | 46 | 46 | 60 | 27 | 58,28 | FI-REDS-42/15L-W3-SV |
| | 1.65 | .59 | 3625 | .47 | 2.05 | 2.36 | 1.81 | 1.81 | 2.36 | 1.06 | 115.06 | |
| L | 42 | 18 | 250 | 15 | 53 | 61 | 45,5 | 46 | 60 | 32 | 51,80 | FI-REDS-42/18L-W3-SV |
| | 1.65 | .71 | 3625 | .59 | 2.09 | 2.40 | 1.79 | 1.81 | 2.36 | 1.26 | 113.96 | |
| L | 42 | 22 | 250 | 19 | 54 | 63 | 47,5 | 46 | 60 | 36 | 58,28 | FI-REDS-42/22L-W3-SV |
| | 1.65 | .87 | 3625 | .75 | 2.13 | 2.48 | 1.87 | 1.81 | 2.36 | 1.42 | 128.22 | |
| L | 42 | 28 | 250 | 24 | 55 | 64 | 47,5 | 46 | 60 | 41 | 52,40 | FI-REDS-42/28L-W3-SV |
| | 1.65 | 1.10 | 3625 | .94 | 2.17 | 2.52 | 1.87 | 1.81 | 2.36 | 1.61 | 115.28 | |
| L | 42 | 35 | 250 | 30 | 57 | 69 | 46,5 | 46 | 60 | 50 | 53,30 | FI-REDS-42/35L-W3-SV |
| | 1.65 | 1.38 | 3625 | 1.18 | 2.24 | 2.72 | 1.83 | 1.81 | 2.36 | 1.97 | 117.26 | |

Ordering Codes

***FI-REDS*-10/*08*L*-W3*-SV+MS**

- * Straight Standpipe Reducer **FI-REDS**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Outside Tube Diameter D2 (in mm) **08**
- * Series Light Series (pages 138/139) **L**
Heavy Series (pages 140/141) **S**
- * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

- * Assembling / Kitting Fitting body assembled with cutting ring and union nut on the standpipe **-SV**
- Fitting body assembled with cutting rings and union nuts on all ends **-SV+MS**

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

¹ Approximate dimension in assembled condition.
² Weight including cutting ring and union nut on the standpipe.
³ Standard scope of delivery: Fitting body assembled with cutting ring and union nut on the standpipe.

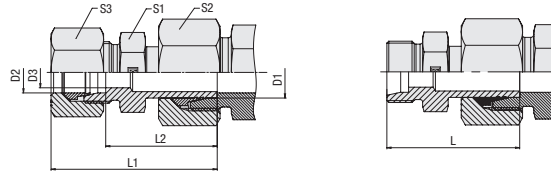
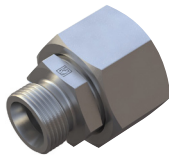
Please note: Standpipes are always factory-assembled with cutting rings and union nuts.



The union nut assembled on the standpipe has to be tightened by only 1/12 a turn (equivalent to 30°) beyond the fixed point.



Straight Standpipe Reducer Type FI-REDS • Series S



Ordering Codes

***FI-REDS*-10/*08*L*-W3*-SV+MS**

- * Straight Standpipe Reducer **FI-REDS**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Outside Tube Diameter D2 (in mm) **08**
- * Series **L**
Light Series (pages 138/139)
S
Heavy Series (pages 140/141)
- * Material Code **-W3**
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **-SV**
Fitting body assembled with cutting ring and union nut on the standpipe
- SV+MS**
Fitting body assembled with cutting rings and union nuts on all ends

Connecting Parts

-  Cutting Ring
Type **FI-DS** Page 26
-  Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
-  Support Sleeve
Type **FI-VH** Page 28
-  STAUFF Form Ring
Type **FI-AR** Page 30
-  Union Nut
Type **FI-M** Page 31
-  37° Flared Tube Fitting Set
Type **FI-AB** Page 35

| Series | Tube OD (mm/in) | | PN (bar/psi) | Dimensions (mm/in) | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|------|-----------------|-----------------------|------|-----------------|------|------|------|-------|--|-----------------------------|
| | D1 | D2 | | D3 | L | L1 ¹ | L2 | S1 | S2 | S3 | | |
| S | 8 | 6 | 800 | 4 | 37 | 45 | 30 | 14 | 19 | 17 | 4,42 | FI-REDS-08/06S-W3-SV |
| | .31 | .24 | 11600 | .16 | 1.46 | 1.77 | 1.18 | .55 | .75 | .67 | 9.73 | |
| | 10 | 6 | 800 | 4 | 39 | 47 | 34 | 14 | 22 | 17 | 6,26 | FI-REDS-10/06S-W3-SV |
| | .39 | .24 | 11600 | .16 | 1.54 | 1.85 | 1.34 | .55 | .87 | .67 | 13.78 | |
| | 10 | 8 | 800 | 5 | 41 | 49 | 34 | 17 | 22 | 19 | 6,81 | FI-REDS-10/08S-W3-SV |
| | .39 | .31 | 11600 | .20 | 1.61 | 1.93 | 1.34 | .67 | .87 | .75 | 14.98 | |
| | 12 | 6 | 630 | 4 | 39 | 47 | 36 | 14 | 24 | 17 | 6,70 | FI-REDS-12/06S-W3-SV |
| | .47 | .24 | 9135 | .16 | 1.54 | 1.85 | 1.42 | .55 | .94 | .67 | 14.74 | |
| | 12 | 8 | 630 | 5 | 41 | 49 | 31,5 | 17 | 24 | 19 | 7,46 | FI-REDS-12/08S-W3-SV |
| | .47 | .31 | 9135 | .20 | 1.61 | 1.93 | 1.24 | .67 | .94 | .75 | 16.41 | |
| | 12 | 10 | 630 | 7 | 41 | 50 | 36 | 19 | 24 | 22 | 7,80 | FI-REDS-12/10S-W3-SV |
| | .47 | .39 | 9135 | .28 | 1.61 | 1.97 | 1.42 | .75 | .94 | .87 | 17.16 | |
| | 14 | 6 | 630 | 4 | 42 | 50 | 37 | 17 | 27 | 17 | 9,61 | FI-REDS-14/06S-W3-SV |
| | .55 | .24 | 9135 | .16 | 1.65 | 1.97 | 1.46 | .67 | 1.06 | .67 | 21.15 | |
| | 14 | 8 | 630 | 5 | 44 | 52 | 37 | 17 | 27 | 19 | 10,19 | FI-REDS-14/08S-W3-SV |
| | .55 | .31 | 9135 | .20 | 1.73 | 2.05 | 1.46 | .67 | 1.06 | .75 | 22.42 | |
| | 14 | 10 | 630 | 7 | 44 | 53 | 36,5 | 19 | 27 | 22 | 11,24 | FI-REDS-14/10S-W3-SV |
| | .55 | .39 | 9135 | .28 | 1.73 | 2.09 | 1.44 | .75 | 1.06 | .87 | 24.72 | |
| | 14 | 12 | 630 | 8 | 44 | 55 | 36,5 | 22 | 27 | 24 | 11,98 | FI-REDS-14/12S-W3-SV |
| | .55 | .47 | 9135 | .31 | 1.73 | 2.17 | 1.44 | .87 | 1.06 | .94 | 26.36 | |
| | 16 | 6 | 630 | 4 | 45,5 | 50 | 38,5 | 17 | 30 | 17 | 12,14 | FI-REDS-16/06S-W3-SV |
| | .63 | .24 | 9135 | .16 | 1.79 | 1.97 | 1.52 | .67 | 1.18 | .67 | 26.71 | |
| | 16 | 8 | 630 | 5 | 44 | 52 | 38,5 | 17 | 30 | 19 | 12,29 | FI-REDS-16/08S-W3-SV |
| | .63 | .31 | 9135 | .20 | 1.73 | 2.05 | 1.52 | .67 | 1.18 | .75 | 27.03 | |
| | 16 | 10 | 630 | 7 | 44 | 53 | 38 | 19 | 30 | 22 | 12,78 | FI-REDS-16/10S-W3-SV |
| | .63 | .39 | 9135 | .28 | 1.73 | 2.09 | 1.50 | .75 | 1.18 | .87 | 28.12 | |
| | 16 | 12 | 630 | 8 | 46 | 55 | 38 | 22 | 30 | 24 | 14,39 | FI-REDS-16/12S-W3-SV |
| | .63 | .47 | 9135 | .31 | 1.81 | 2.17 | 1.50 | .87 | 1.18 | .94 | 31.66 | |
| 16 | 14 | 630 | 10 | 47,5 | 58 | 39,5 | 24 | 30 | 27 | 14,70 | FI-REDS-16/14S-W3-SV | |
| .63 | .55 | 9135 | .39 | 1.87 | 2.28 | 1.56 | .94 | 1.18 | 1.06 | 32.34 | | |
| 20 | 6 | 400 | 4 | 47 | 55 | 46,5 | 22 | 36 | 17 | 20,15 | FI-REDS-20/06S-W3-SV | |
| .79 | .24 | 5800 | .16 | 1.85 | 2.17 | 1.83 | .87 | 1.42 | .67 | 44.33 | | |
| 20 | 8 | 400 | 5 | 48 | 56 | 46,5 | 22 | 36 | 19 | 17,67 | FI-REDS-20/08S-W3-SV | |
| .79 | .31 | 5800 | .20 | 1.89 | 2.20 | 1.83 | .87 | 1.42 | .75 | 38.88 | | |
| 20 | 10 | 400 | 7 | 53,5 | 57 | 46 | 22 | 36 | 22 | 16,90 | FI-REDS-20/10S-W3-SV | |
| .79 | .39 | 5800 | .28 | 2.11 | 2.24 | 1.81 | .87 | 1.42 | .87 | 37.18 | | |
| 20 | 12 | 400 | 8 | 50 | 59 | 46 | 22 | 36 | 24 | 18,10 | FI-REDS-20/12S-W3-SV | |
| .79 | .47 | 5800 | .31 | 1.97 | 2.32 | 1.81 | .87 | 1.42 | .94 | 39.82 | | |
| 20 | 14 | 400 | 10 | 52 | 62 | 47,5 | 24 | 36 | 27 | 19,20 | FI-REDS-20/14S-W3-SV | |
| .79 | .55 | 5800 | .39 | 2.05 | 2.44 | 1.87 | .94 | 1.42 | 1.06 | 42.24 | | |
| 20 | 16 | 400 | 12 | 55,5 | 62 | 47 | 27 | 36 | 30 | 23,31 | FI-REDS-20/16S-W3-SV | |
| .79 | .63 | 5800 | .47 | 2.19 | 2.44 | 1.85 | 1.06 | 1.42 | 1.18 | 51.27 | | |

¹ Approximate dimension in assembled condition.

² Weight including cutting ring and union nut on the standpipe.

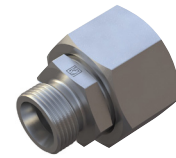
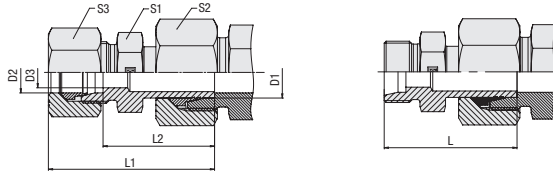
³ Standard scope of delivery: Fitting body assembled with cutting ring and union nut on the standpipe.

Please note: Standpipes are always factory-assembled with cutting rings and union nuts.

The union nut assembled on the standpipe has to be tightened by only 1/12 a turn (equivalent to 30°) beyond the fixed point.



Straight Standpipe Reducer
Type FI-REDS ■ Series S



| Series | Tube OD (mm/in) | | PN (bar/psi) | Dimensions (mm/in) | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|------|-----------------|-----------------------|------|-----------------|------|------|------|-------|--|-----------------------------|
| | D1 | D2 | | D3 | L | L1 ¹ | L2 | S1 | S2 | S3 | | |
| S | 25 | 6 | 400 | 4 | 50 | 58 | 51 | 27 | 46 | 17 | 31,38 | FI-REDS-25/06S-W3-SV |
| | .98 | .24 | 5800 | .16 | 1.97 | 2.28 | 2.01 | 1.06 | 1.81 | .67 | 69.04 | |
| 25 | 8 | 400 | 5 | 51 | 59 | 51 | 27 | 46 | 19 | 31,65 | FI-REDS-25/08S-W3-SV | |
| | .98 | .31 | 5800 | .20 | 2.01 | 2.32 | 2.01 | 1.06 | 1.81 | .75 | | 69.62 |
| 25 | 10 | 400 | 7 | 58 | 60 | 50,5 | 27 | 46 | 22 | 35,51 | FI-REDS-25/10S-W3-SV | |
| | .98 | .39 | 5800 | .28 | 2.28 | 2.36 | 1.99 | 1.06 | 1.81 | .87 | | 78.12 |
| 25 | 12 | 400 | 8 | 53 | 62 | 50,5 | 27 | 46 | 24 | 38,88 | FI-REDS-25/12S-W3-SV | |
| | .98 | .47 | 5800 | .31 | 2.09 | 2.44 | 1.99 | 1.06 | 1.81 | .94 | | 85.54 |
| 25 | 14 | 400 | 10 | 60 | 65 | 52 | 27 | 46 | 27 | 41,86 | FI-REDS-25/14S-W3-SV | |
| | .98 | .55 | 5800 | .39 | 2.36 | 2.56 | 2.05 | 1.06 | 1.81 | 1.06 | | 92.10 |
| 25 | 16 | 400 | 12 | 60 | 65 | 51,5 | 27 | 46 | 30 | 35,70 | FI-REDS-25/16S-W3-SV | |
| | .98 | .63 | 5800 | .47 | 2.36 | 2.56 | 2.03 | 1.06 | 1.81 | 1.18 | | 78.54 |
| 25 | 20 | 400 | 16 | 62 | 70 | 51,5 | 32 | 46 | 36 | 39,99 | FI-REDS-25/20S-W3-SV | |
| | .98 | .79 | 5800 | .63 | 2.44 | 2.76 | 2.03 | 1.26 | 1.81 | 1.42 | | 87.97 |
| 30 | 6 | 400 | 4 | 53 | 61 | 52,5 | 32 | 50 | 17 | 42,88 | FI-REDS-30/06S-W3-SV | |
| | 1.18 | .24 | 5800 | .16 | 2.09 | 2.40 | 2.07 | 1.26 | 1.97 | .67 | | 94.33 |
| 30 | 8 | 400 | 5 | 53 | 61 | 52,5 | 32 | 50 | 19 | 38,19 | FI-REDS-30/08S-W3-SV | |
| | 1.18 | .31 | 5800 | .20 | 2.09 | 2.40 | 2.07 | 1.26 | 1.97 | .75 | | 84.01 |
| 30 | 10 | 400 | 7 | 53 | 62 | 52 | 32 | 50 | 22 | 43,13 | FI-REDS-30/10S-W3-SV | |
| | 1.18 | .39 | 5800 | .28 | 2.09 | 2.44 | 2.05 | 1.26 | 1.97 | .87 | | 94.88 |
| 30 | 12 | 400 | 8 | 59,5 | 65 | 52 | 32 | 50 | 24 | 38,53 | FI-REDS-30/12S-W3-SV | |
| | 1.18 | .47 | 5800 | .31 | 2.34 | 2.56 | 2.05 | 1.26 | 1.97 | .94 | | 84.76 |
| 30 | 14 | 400 | 10 | 61,5 | 68 | 53,5 | 32 | 50 | 27 | 39,19 | FI-REDS-30/14S-W3-SV | |
| | 1.18 | .55 | 5800 | .39 | 2.42 | 2.68 | 2.11 | 1.26 | 1.97 | 1.06 | | 86.23 |
| 30 | 16 | 400 | 12 | 61,5 | 68 | 53 | 32 | 50 | 30 | 43,00 | FI-REDS-30/16S-W3-SV | |
| | 1.18 | .63 | 5800 | .47 | 2.42 | 2.68 | 2.09 | 1.26 | 1.97 | 1.18 | | 94.59 |
| 30 | 20 | 400 | 16 | 62 | 73 | 53 | 32 | 50 | 36 | 55,33 | FI-REDS-30/20S-W3-SV | |
| | 1.18 | .79 | 5800 | .63 | 2.44 | 2.87 | 2.09 | 1.26 | 1.97 | 1.42 | | 121.72 |
| 30 | 25 | 400 | 20 | 66 | 78 | 53,5 | 41 | 50 | 46 | 52,60 | FI-REDS-30/25S-W3-SV | |
| | 1.18 | .98 | 5800 | .79 | 2.60 | 3.07 | 2.11 | 1.61 | 1.97 | 1.81 | | 115.72 |
| 38 | 6 | 315 | 4 | 60 | 68 | 56 | 41 | 60 | 17 | 64,17 | FI-REDS-38/06S-W3-SV | |
| | 1.50 | .24 | 4568 | .16 | 2.36 | 2.68 | 2.20 | 1.61 | 2.36 | .67 | | 141.16 |
| 38 | 8 | 315 | 5 | 60 | 68 | 56 | 41 | 60 | 19 | 64,88 | FI-REDS-38/08S-W3-SV | |
| | 1.50 | .31 | 4568 | .20 | 2.36 | 2.68 | 2.20 | 1.61 | 2.36 | .75 | | 142.73 |
| 38 | 10 | 315 | 7 | 62 | 71 | 55,5 | 41 | 60 | 22 | 63,89 | FI-REDS-38/10S-W3-SV | |
| | 1.50 | .39 | 4568 | .28 | 2.44 | 2.80 | 2.19 | 1.61 | 2.36 | .87 | | 140.55 |
| 38 | 12 | 315 | 8 | 62 | 69 | 55,5 | 41 | 60 | 24 | 64,80 | FI-REDS-38/12S-W3-SV | |
| | 1.50 | .47 | 4568 | .31 | 2.44 | 2.72 | 2.19 | 1.61 | 2.36 | .94 | | 142.56 |
| 38 | 14 | 315 | 10 | 65 | 75 | 57 | 41 | 60 | 27 | 67,79 | FI-REDS-38/14S-W3-SV | |
| | 1.50 | .55 | 4568 | .39 | 2.56 | 2.95 | 2.24 | 1.61 | 2.36 | 1.06 | | 149.14 |
| 38 | 16 | 315 | 12 | 65 | 74 | 56,5 | 41 | 60 | 30 | 64,60 | FI-REDS-38/16S-W3-SV | |
| | 1.50 | .63 | 4568 | .47 | 2.56 | 2.91 | 2.22 | 1.61 | 2.36 | 1.18 | | 142.12 |
| 38 | 20 | 315 | 16 | 68 | 79 | 56,5 | 41 | 60 | 36 | 72,99 | FI-REDS-38/20S-W3-SV | |
| | 1.50 | .79 | 4568 | .63 | 2.68 | 3.11 | 2.22 | 1.61 | 2.36 | 1.42 | | 160.57 |
| 38 | 25 | 315 | 20 | 69 | 84 | 57 | 41 | 60 | 46 | 66,80 | FI-REDS-38/25S-W3-SV | |
| | 1.50 | .98 | 4568 | .79 | 2.72 | 3.31 | 2.24 | 1.61 | 2.36 | 1.81 | | 146.96 |
| 38 | 30 | 315 | 25 | 74 | 87 | 57,5 | 46 | 60 | 50 | 71,80 | FI-REDS-38/30S-W3-SV | |
| | 1.50 | 1.18 | 4568 | .98 | 2.91 | 3.43 | 2.26 | 1.81 | 2.36 | 1.97 | | 157.96 |

Ordering Codes

***FI-REDS*-10/*08*L*-W3*-SV+MS**

- * Straight Standpipe Reducer **FI-REDS**
 - * Outside Tube Diameter D1 (in mm) **-10**
 - * Outside Tube Diameter D2 (in mm) **08**
 - * Series Light Series (pages 138/139) **L**
Heavy Series (pages 140/141) **S**
 - * Material Code Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body assembled with cutting ring and union nut on the standpipe **-SV**
 - Fitting body assembled with cutting rings and union nuts on all ends **-SV+MS**

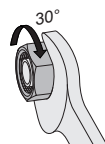
Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

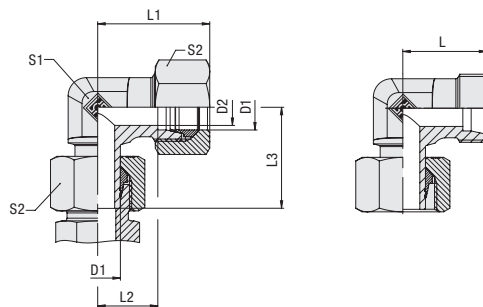
¹ Approximate dimension in assembled condition.
² Weight including cutting ring and union nut on the standpipe.
³ Standard scope of delivery: Fitting body assembled with cutting ring and union nut on the standpipe.

Please note: Standpipes are always factory-assembled with cutting rings and union nuts.

The union nut assembled on the standpipe has to be tightened by only 1/12 a turn (equivalent to 30°) beyond the fixed point.



Adjustable Standpipe Elbow Type FI-EW ▪ Series L / S



Ordering Codes

***FI-EW*-10*L*-W3*-SV+MS**

- * Adjustable Standpipe Elbow **FI-EW**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
Light Series
S
Heavy Series
- * Material Code **-W3**
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **-SV**
Fitting body assembled with cutting ring and union nut on the standpipe
- SV+MS**
Fitting body assembled with cutting rings and union nuts on all ends

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

| Series | Tube OD | PN | Dimensions | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|---------------|------|------------|---------------|------|-----------------|------|------|--------|--|-----------------------------|
| | (mm/in) D1 | | (bar/psi) | (mm/in) D2 | L | L1 ¹ | L2 | L3 | S1 | | |
| L | 6 | 315 | 4 | 19 | 27 | 12 | 26 | 12 | 14 | 2,89 | FI-EW-06L-W3-SV |
| | .24 | 4568 | .16 | .75 | 1.06 | .47 | 1.02 | .47 | .55 | 6,39 | |
| | 8 | 315 | 6 | 21 | 29 | 14 | 27,5 | 12 | 17 | 3,89 | FI-EW-08L-W3-SV |
| | .31 | 4568 | .24 | .83 | 1.14 | .55 | 1.08 | .47 | .67 | 8,56 | |
| | 10 | 315 | 8 | 22 | 30 | 15 | 29 | 14 | 19 | 5,20 | FI-EW-10L-W3-SV |
| | .39 | 4568 | .31 | .87 | 1.18 | .59 | 1.14 | .55 | .75 | 11,44 | |
| | 12 | 315 | 10 | 24 | 32 | 17 | 29,5 | 17 | 22 | 7,20 | FI-EW-12L-W3-SV |
| | .47 | 4568 | .39 | .94 | 1.26 | .67 | 1.16 | .67 | .87 | 15,84 | |
| | 15 | 315 | 12 | 28 | 36 | 21 | 32,5 | 19 | 27 | 17,20 | FI-EW-15L-W3-SV |
| | .59 | 4568 | .47 | 1.10 | 1.42 | .83 | 1.28 | .75 | 1.06 | 37,84 | |
| | 18 | 315 | 15 | 31 | 40 | 23,5 | 35,5 | 24 | 32 | 17,70 | FI-EW-18L-W3-SV |
| | .71 | 4568 | .59 | 1.22 | 1.57 | .93 | 1.40 | .94 | 1.26 | 38,94 | |
| | 22 | 160 | 19 | 35 | 44 | 27,5 | 38,5 | 27 | 36 | 24,00 | FI-EW-22L-W3-SV |
| | .87 | 2320 | .75 | 1.38 | 1.73 | 1.08 | 1.52 | 1.06 | 1.42 | 52,80 | |
| | 28 | 160 | 24 | 38 | 47 | 30,5 | 41,5 | 36 | 41 | 35,70 | FI-EW-28L-W3-SV |
| | 1.10 | 2320 | .94 | 1.50 | 1.85 | 1.20 | 1.63 | 1.42 | 1.61 | 78,54 | |
| | 35 | 160 | 30 | 45 | 56 | 34,5 | 51 | 41 | 50 | 58,10 | FI-EW-35L-W3-SV |
| | 1.38 | 2320 | 1.18 | 1.77 | 2.20 | 1.36 | 2.01 | 1.61 | 1.97 | 127,82 | |
| 42 | 160 | 36 | 51 | 63 | 40 | 56 | 50 | 60 | 87,00 | FI-EW-42L-W3-SV | |
| 1.65 | 2320 | 1.42 | 2.01 | 2.48 | 1.57 | 2.20 | 1.97 | 2.36 | 191,40 | | |
| S | 6 | 630 | 4 | 23 | 31 | 16 | 27 | 12 | 17 | 4,60 | FI-EW-06S-W3-SV |
| | .24 | 9135 | .16 | .91 | 1.22 | .63 | 1.06 | .47 | .67 | 10,12 | |
| | 8 | 630 | 5 | 24 | 32 | 17 | 27,5 | 14 | 19 | 6,20 | FI-EW-08S-W3-SV |
| | .31 | 9135 | .20 | .94 | 1.26 | .67 | 1.08 | .55 | .75 | 13,64 | |
| | 10 | 630 | 7 | 25 | 34 | 17,5 | 30 | 17 | 22 | 8,80 | FI-EW-10S-W3-SV |
| | .39 | 9135 | .28 | .98 | 1.34 | .69 | 1.18 | .67 | .87 | 19,36 | |
| | 12 | 630 | 8 | 29 | 38 | 21,5 | 31 | 17 | 24 | 10,90 | FI-EW-12S-W3-SV |
| | .47 | 9135 | .31 | 1.14 | 1.50 | .85 | 1.22 | .67 | .94 | 23,98 | |
| | 14 | 400 | 10 | 30 | 40 | 22 | 35 | 19 | 27 | 14,90 | FI-EW-14S-W3-SV |
| | .55 | 5800 | .39 | 1.18 | 1.57 | .87 | 1.38 | .75 | 1.06 | 32,78 | |
| | 16 | 400 | 12 | 33 | 43 | 24,5 | 36,5 | 24 | 30 | 20,10 | FI-EW-16S-W3-SV |
| | .63 | 5800 | .47 | 1.30 | 1.69 | .96 | 1.44 | .94 | 1.18 | 44,22 | |
| | 20 | 400 | 16 | 37 | 48 | 26,5 | 44,5 | 27 | 36 | 30,60 | FI-EW-20S-W3-SV |
| | .79 | 5800 | .63 | 1.46 | 1.89 | 1.04 | 1.75 | 1.06 | 1.42 | 67,32 | |
| | 25 | 400 | 20 | 42 | 54 | 30 | 50 | 36 | 46 | 55,40 | FI-EW-25S-W3-SV |
| | .98 | 5800 | .79 | 1.65 | 2.13 | 1.18 | 1.97 | 1.42 | 1.81 | 121,88 | |
| | 30 | 400 | 25 | 49 | 62 | 35,5 | 55 | 41 | 50 | 79,80 | FI-EW-30S-W3-SV |
| | 1.18 | 5800 | .98 | 1.93 | 2.44 | 1.40 | 2.17 | 1.61 | 1.97 | 175,56 | |
| 38 | 315 | 32 | 57 | 72 | 41 | 63 | 50 | 60 | 110,30 | FI-EW-38S-W3-SV | |
| 1.50 | 4568 | 1.26 | 2.24 | 2.83 | 1.61 | 2.48 | 1.97 | 2.36 | 242,66 | | |

¹ Approximate dimension in assembled condition.

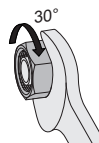
² Weight including cutting ring and union nut on the standpipe.

³ Standard scope of delivery: Fitting body assembled with cutting ring and union nut on the standpipe.



Typical application with a Straight Male Stud Fitting FI-GE-...

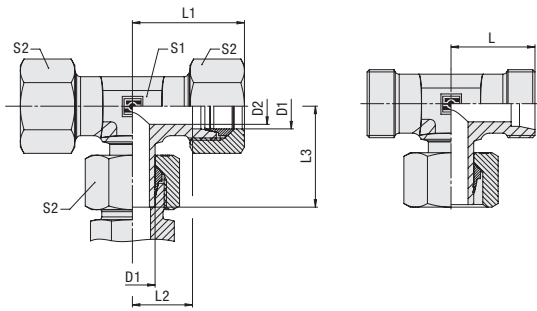
Please note: Standpipes are always factory-assembled with cutting rings and union nuts.



The union nut assembled on the standpipe has to be tightened by only 1/12 a turn (equivalent to 30°) beyond the fixed point.



Adjustable Standpipe Branch Tee Type FI-ET ■ Series L / S



| Series | Tube OD | | PN | | Dimensions | | | | | | Weight (^{kg} /lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|---------|-----------|------|------|------------|-----------------|------|------|--------|-----------------|---|-----------------------------|
| | (mm/in) | (bar/PSI) | D1 | D2 | L | L1 ¹ | L2 | L3 | S1 | S2 | | |
| L | 6 | 315 | 4 | 19 | 27 | 12 | 26 | 12 | 14 | 3,60 | FI-ET-06L-W3-SV | |
| | .24 | 4568 | .16 | .75 | 1.06 | .47 | 1.02 | .47 | .55 | 7.92 | | |
| | 8 | 315 | 6 | 21 | 29 | 14 | 27,5 | 12 | 17 | 4,70 | FI-ET-08L-W3-SV | |
| | .31 | 4568 | .24 | .83 | 1.14 | .55 | 1.08 | .47 | .67 | 10.34 | | |
| | 10 | 315 | 8 | 22 | 30 | 15 | 29 | 14 | 19 | 6,10 | FI-ET-10L-W3-SV | |
| | .39 | 4568 | .31 | .87 | 1.18 | .59 | 1.14 | .55 | .75 | 13.42 | | |
| | 12 | 315 | 10 | 24 | 32 | 17 | 29,5 | 17 | 22 | 8,30 | FI-ET-12L-W3-SV | |
| | .47 | 4568 | .39 | .94 | 1.26 | .67 | 1.16 | .67 | .87 | 18.26 | | |
| | 15 | 315 | 12 | 28 | 36 | 21 | 32,5 | 19 | 27 | 14,40 | FI-ET-15L-W3-SV | |
| | .59 | 4568 | .47 | 1.10 | 1.42 | .83 | 1.28 | .75 | 1.06 | 31.68 | | |
| | 18 | 315 | 15 | 31 | 40 | 23,5 | 35,5 | 24 | 32 | 20,70 | FI-ET-18L-W3-SV | |
| | .71 | 4568 | .59 | 1.22 | 1.57 | .93 | 1.40 | .94 | 1.26 | 45.45 | | |
| | 22 | 160 | 19 | 35 | 44 | 27,5 | 38,5 | 27 | 36 | 29,30 | FI-ET-22L-W3-SV | |
| | .87 | 2320 | .75 | 1.38 | 1.73 | 1.08 | 1.52 | 1.06 | 1.42 | 64.46 | | |
| | 28 | 160 | 24 | 38 | 47 | 30,5 | 41,5 | 36 | 41 | 40,80 | FI-ET-28L-W3-SV | |
| | 1.10 | 2320 | .94 | 1.50 | 1.85 | 1.20 | 1.63 | 1.42 | 1.61 | 89.76 | | |
| | 35 | 160 | 30 | 45 | 56 | 34,5 | 51 | 41 | 50 | 65,00 | FI-ET-35L-W3-SV | |
| | 1.38 | 2320 | 1.18 | 1.77 | 2.20 | 1.36 | 2.01 | 1.61 | 1.97 | 143.00 | | |
| 42 | 160 | 36 | 51 | 63 | 40 | 56 | 50 | 60 | 87,90 | FI-ET-42L-W3-SV | | |
| 1.65 | 2320 | 1.42 | 2.01 | 2.48 | 1.57 | 2.20 | 1.97 | 2.36 | 193.38 | | | |
| S | 6 | 630 | 4 | 23 | 31 | 16 | 27 | 12 | 17 | 5,80 | FI-ET-06S-W3-SV | |
| | .24 | 9135 | .16 | .91 | 1.22 | .63 | 1.06 | .47 | .67 | 12.76 | | |
| | 8 | 630 | 5 | 24 | 32 | 17 | 27,5 | 14 | 19 | 7,80 | FI-ET-08S-W3-SV | |
| | .31 | 9135 | .20 | .94 | 1.26 | .67 | 1.08 | .55 | .75 | 17.16 | | |
| | 10 | 630 | 7 | 25 | 34 | 17,5 | 30 | 17 | 22 | 10,20 | FI-ET-10S-W3-SV | |
| | .39 | 9135 | .28 | .98 | 1.34 | .69 | 1.18 | .67 | .87 | 22.44 | | |
| | 12 | 630 | 8 | 29 | 38 | 21,5 | 31 | 17 | 24 | 13,50 | FI-ET-12S-W3-SV | |
| | .47 | 9135 | .31 | 1.14 | 1.50 | .85 | 1.22 | .67 | .94 | 29.70 | | |
| | 14 | 400 | 10 | 30 | 40 | 22 | 35 | 19 | 27 | 17,70 | FI-ET-14S-W3-SV | |
| | .55 | 5800 | .39 | 1.18 | 1.57 | .87 | 1.38 | .75 | 1.06 | 38.94 | | |
| | 16 | 400 | 12 | 33 | 43 | 24,5 | 36,5 | 24 | 30 | 23,70 | FI-ET-16S-W3-SV | |
| | .63 | 5800 | .47 | 1.30 | 1.69 | .96 | 1.44 | .94 | 1.18 | 52.14 | | |
| | 20 | 400 | 16 | 37 | 48 | 26,5 | 44,5 | 27 | 36 | 36,50 | FI-ET-20S-W3-SV | |
| | .79 | 5800 | .63 | 1.46 | 1.89 | 1.04 | 1.75 | 1.06 | 1.42 | 80.30 | | |
| | 25 | 400 | 20 | 42 | 54 | 30 | 50 | 36 | 46 | 63,70 | FI-ET-25S-W3-SV | |
| | .98 | 5800 | .79 | 1.65 | 2.13 | 1.18 | 1.97 | 1.42 | 1.81 | 140.14 | | |
| | 30 | 400 | 25 | 49 | 62 | 35,5 | 55 | 41 | 50 | 88,90 | FI-ET-30S-W3-SV | |
| | 1.18 | 5800 | .98 | 1.93 | 2.44 | 1.40 | 2.17 | 1.61 | 1.97 | 195.58 | | |
| 38 | 315 | 32 | 57 | 72 | 41 | 63 | 50 | 60 | 135,80 | FI-ET-38S-W3-SV | | |
| 1.50 | 4568 | 1.26 | 2.24 | 2.83 | 1.61 | 2.48 | 1.97 | 2.36 | 298.76 | | | |

Ordering Codes

***FI-ET*-10*L*-W3*-SV+MS**

- * Adjustable Standpipe Branch Tee **FI-ET**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L** (Light Series) **S** (Heavy Series)
- * Material Code **-W3** (Steel, zinc/nickel-plated)
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **-SV** (Fitting body assembled with cutting ring and union nut on the standpipe) **-SV+MS** (Fitting body assembled with cutting rings and union nuts on all ends)

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

¹ Approximate dimension in assembled condition.

² Weight including cutting ring and union nut on the standpipe.

³ Standard scope of delivery: Fitting body assembled with cutting ring and union nut on the standpipe.



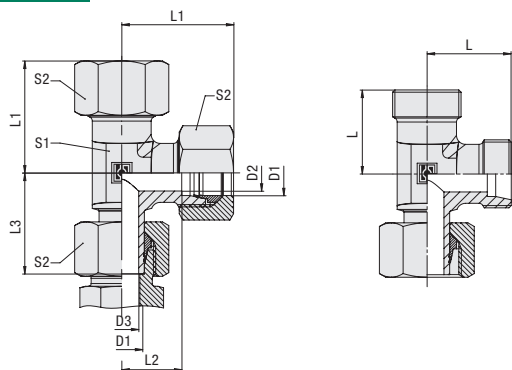
Typical application with a Straight Male Stud Fitting FI-GE-...

Please note: Standpipes are always factory-assembled with cutting rings and union nuts.

The union nut assembled on the standpipe has to be tightened by only 1/12 a turn (equivalent to 30°) beyond the fixed point.



Adjustable Standpipe Barrel Tee Type FI-EL ▪ Series L / S



Ordering Codes

***FI-EL*-10*L*-W3*-SV+MS**

- * Adjustable Standpipe Barrel Tee **FI-EL**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Light Series **L**
Heavy Series **S**
- * Material Code Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body assembled with cutting ring and union nut on the standpipe **-SV**
Fitting body assembled with cutting rings and union nuts on all ends **-SV+MS**

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

| Series | Tube OD | PN | Dimensions | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|---------------|------|------------|---------------|------|-----------------|------|------|--------|--|-----------------------------|
| | (mm/in) D1 | | (bar/psi) | (mm/in) D2 | L | L1 ¹ | L2 | L3 | S1 | | |
| L | 6 | 315 | 4 | 19 | 27 | 12 | 26 | 12 | 14 | 3,60 | FI-EL-06L-W3-SV |
| | .24 | 4568 | .16 | .75 | 1.06 | .47 | 1.02 | .47 | .55 | 7,92 | |
| | 8 | 315 | 6 | 21 | 29 | 14 | 27,5 | 12 | 17 | 4,70 | FI-EL-08L-W3-SV |
| | .31 | 4568 | .24 | .75 | 1.06 | .47 | 1.02 | .47 | .55 | 10,34 | |
| | 10 | 315 | 8 | 22 | 30 | 15 | 29 | 14 | 19 | 6,10 | FI-EL-10L-W3-SV |
| | .39 | 4568 | .31 | .83 | 1.14 | .55 | 1.08 | .47 | .67 | 13,42 | |
| | 12 | 315 | 10 | 24 | 32 | 17 | 29,5 | 17 | 22 | 8,30 | FI-EL-12L-W3-SV |
| | .47 | 4568 | .39 | .87 | 1.18 | .59 | 1.14 | .55 | .75 | 18,26 | |
| | 15 | 315 | 12 | 28 | 36 | 21 | 32,5 | 19 | 27 | 14,40 | FI-EL-15L-W3-SV |
| | .59 | 4568 | .47 | .94 | 1.26 | .67 | 1.16 | .67 | .87 | 31,68 | |
| | 18 | 315 | 15 | 31 | 40 | 23,5 | 35,5 | 24 | 32 | 20,70 | FI-EL-18L-W3-SV |
| | .71 | 4568 | .59 | 1.10 | 1.42 | .83 | 1.28 | .75 | 1.06 | 45,45 | |
| | 22 | 160 | 19 | 35 | 44 | 27,5 | 38,5 | 27 | 36 | 29,30 | FI-EL-22L-W3-SV |
| | .87 | 2320 | .75 | 1.22 | 1.57 | .93 | 1.40 | .94 | 1.26 | 64,46 | |
| | 28 | 160 | 24 | 38 | 47 | 30,5 | 41,5 | 36 | 41 | 40,80 | FI-EL-28L-W3-SV |
| | 1.10 | 2320 | .94 | 1.38 | 1.73 | 1.08 | 1.52 | 1.06 | 1.42 | 89,76 | |
| | 35 | 160 | 30 | 45 | 56 | 34,5 | 51 | 41 | 50 | 65,00 | FI-EL-35L-W3-SV |
| | 1.38 | 2320 | 1.18 | 1.50 | 1.85 | 1.20 | 1.63 | 1.42 | 1.61 | 143,00 | |
| 42 | 160 | 36 | 51 | 63 | 40 | 56 | 50 | 60 | 87,90 | FI-EL-42L-W3-SV | |
| 1.65 | 2320 | 1.42 | 1.77 | 2.20 | 1.36 | 2.01 | 1.61 | 1.97 | 193,38 | | |
| S | 6 | 630 | 4 | 23 | 31 | 16 | 27 | 12 | 17 | 5,80 | FI-EL-06S-W3-SV |
| | .24 | 9135 | .16 | 2.01 | 2.48 | 1.57 | 2.20 | 1.97 | 2.36 | 12,76 | |
| | 8 | 630 | 5 | 24 | 32 | 17 | 27,5 | 14 | 19 | 7,80 | FI-EL-08S-W3-SV |
| | .31 | 9135 | .20 | .91 | 1.22 | .63 | 1.06 | .47 | .67 | 17,16 | |
| | 10 | 630 | 7 | 25 | 34 | 17,5 | 30 | 17 | 22 | 10,20 | FI-EL-10S-W3-SV |
| | .39 | 9135 | .28 | .94 | 1.26 | .67 | 1.08 | .55 | .75 | 22,44 | |
| | 12 | 630 | 8 | 29 | 38 | 21,5 | 31 | 17 | 24 | 13,50 | FI-EL-12S-W3-SV |
| | .47 | 9135 | .31 | .98 | 1.34 | .69 | 1.18 | .67 | .87 | 29,70 | |
| | 14 | 400 | 10 | 30 | 40 | 22 | 35 | 19 | 27 | 17,70 | FI-EL-14S-W3-SV |
| | .55 | 5800 | .39 | 1.14 | 1.50 | .85 | 1.22 | .67 | .94 | 38,94 | |
| | 16 | 400 | 12 | 33 | 43 | 24,5 | 36,5 | 24 | 30 | 23,70 | FI-EL-16S-W3-SV |
| | .63 | 5800 | .47 | 1.18 | 1.57 | .87 | 1.38 | .75 | 1.06 | 52,14 | |
| | 20 | 400 | 16 | 37 | 48 | 26,5 | 44,5 | 27 | 36 | 36,50 | FI-EL-20S-W3-SV |
| | .79 | 5800 | .63 | 1.30 | 1.69 | .96 | 1.44 | .94 | 1.18 | 80,30 | |
| | 25 | 400 | 20 | 42 | 54 | 30 | 50 | 36 | 46 | 63,70 | FI-EL-25S-W3-SV |
| | .98 | 5800 | .79 | 1.46 | 1.89 | 1.04 | 1.75 | 1.06 | 1.42 | 140,14 | |
| | 30 | 400 | 25 | 49 | 62 | 35,5 | 55 | 41 | 50 | 88,90 | FI-EL-30S-W3-SV |
| | 1.18 | 5800 | .98 | 1.65 | 2.13 | 1.18 | 1.97 | 1.42 | 1.81 | 195,58 | |
| 38 | 315 | 32 | 57 | 72 | 41 | 63 | 50 | 60 | 135,80 | FI-EL-38S-W3-SV | |
| 1.50 | 4568 | 1.26 | 1.93 | 2.44 | 1.40 | 2.17 | 1.61 | 1.97 | 298,76 | | |

¹ Approximate dimension in assembled condition.

² Weight including cutting ring and union nut on the standpipe.

³ Standard scope of delivery: Fitting body assembled with cutting ring and union nut on the standpipe.

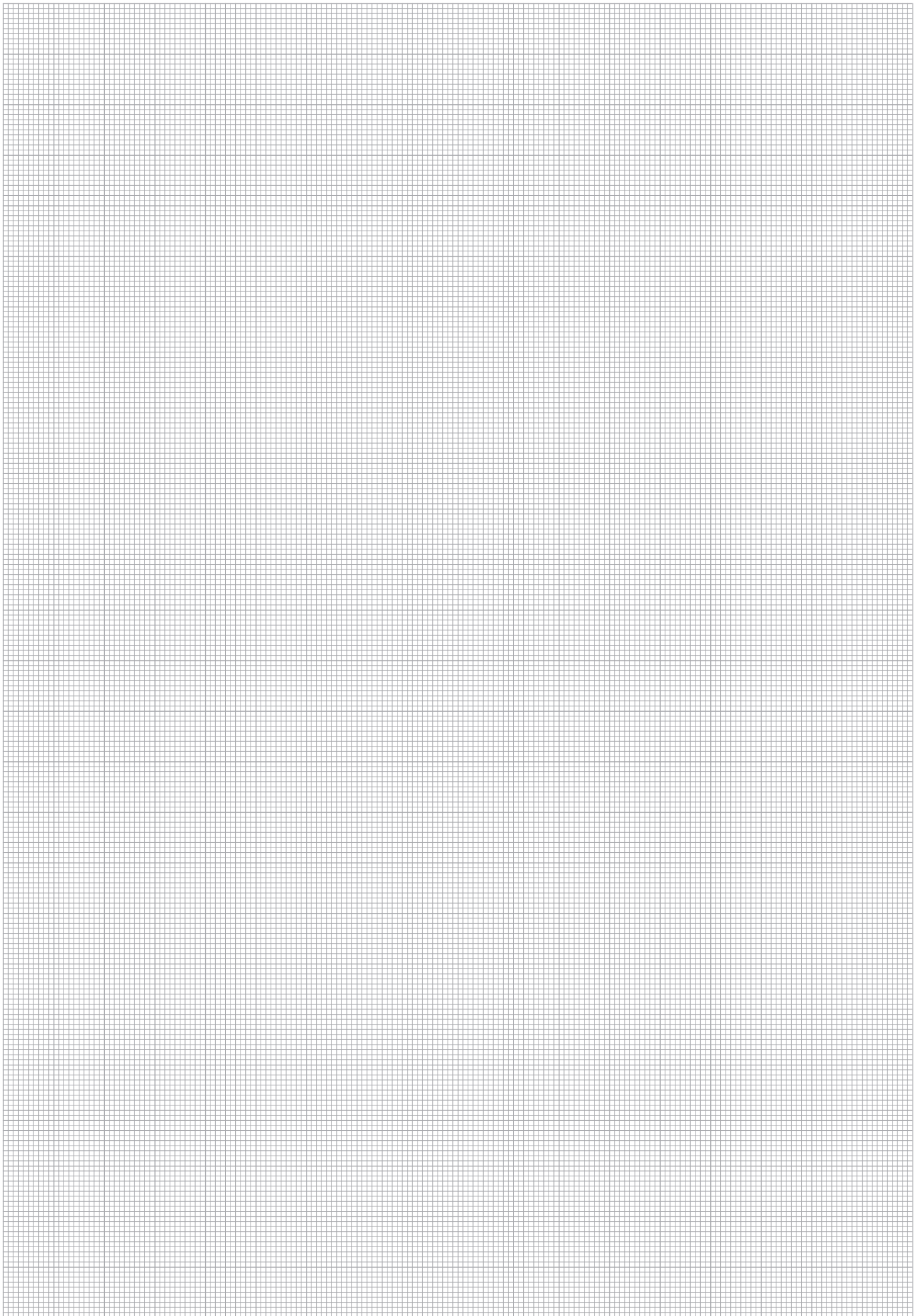


Typical application with a Straight Male Stud Fitting FI-GE-...

Please note: Standpipes are always factory-assembled with cutting rings and union nuts.

The union nut assembled on the standpipe has to be tightened by only 1/12 a turn (equivalent to 30°) beyond the fixed point.





I





Adjustable Male Stud Elbow (90°) with Lock Nut

FI-WEE


**Whitworth Parallel Pipe Thread (BSPP) /
O-Ring and Retaining Ring (Small)**
FI-WEE-...-R-OK

148


**Metric Parallel Thread /
O-Ring and Retaining Ring (Small)**
FI-WEE-...-M-OK

150


**Metric Parallel Thread /
O-Ring**
FI-WEE-...-M-OR

152


**UN/UNF Thread /
O-Ring**
FI-WEE-...-U-OR

154

Adjustable Male Stud Elbow (45°) with Lock Nut

FI-VEE


**Whitworth Parallel Pipe Thread (BSPP) /
O-Ring and Retaining Ring (Small)**
FI-VEE-...-R-OK

149


**Metric Parallel Thread /
O-Ring and Retaining Ring (Small)**
FI-VEE-...-M-OK

151


**Metric Parallel Thread /
O-Ring**
FI-VEE-...-M-OR

153


**UN/UNF Thread /
O-Ring**
FI-VEE-...-U-OR

155

Adjustable Male Stud Branch Tee with Lock Nut

FI-TEE


**Whitworth Parallel Pipe Thread (BSPP) /
O-Ring and Retaining Ring (Small)**
FI-TEE-...-R-OK

149


**Metric Parallel Thread /
O-Ring and Retaining Ring (Small)**
FI-TEE-...-M-OK

151


**Metric Parallel Thread /
O-Ring**
FI-TEE-...-M-OR

153


**UN/UNF Thread /
O-Ring**
FI-TEE-...-U-OR

155

Adjustable Male Stud Barrel Tee with Lock Nut

FI-LEE


**Whitworth Parallel Pipe Thread (BSPP) /
O-Ring and Retaining Ring (Small)**
FI-LEE-...-R-OK

149


**Metric Parallel Thread /
O-Ring and Retaining Ring (Small)**
FI-LEE-...-M-OK

151


**Metric Parallel Thread /
O-Ring**
FI-LEE-...-M-OR

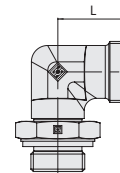
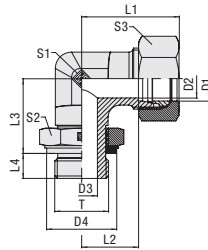
153


**UN/UNF Thread /
O-Ring**
FI-LEE-...-U-OR

155

J


Adjustable Male Stud Elbow (90°) with Lock Nut
Type FI-WEE-...-R-OK • Series L / S



Whitworth Parallel Pipe Thread (BSP)

O-Ring and Retaining Ring (Small)

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | Dimensions | | | | | | | | | | | | | Torque (Nm/ft-lb) | Weight (kg/lbs) ca. | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------------|------|------|------|------|-----------------|------|------|------|------|------|--------|---------------------|----------------------|------------------------|-----------------------------|
| | | | | Thread T | D2 | D3 | D4 | L | L1 ¹ | L2 | L3 | L4 | S1 | S2 | S3 | Thread T | | | |
| L | 6 | 315 | G 1/8 | 4 | 4 | 14,8 | 21 | 29 | 14 | 20 | 7 | 14 | 14 | 14 | 25 | 4,06 | FI-WEE-06LR-OK-B-W3 | | |
| | .24 | 4568 | | .16 | .16 | .58 | .83 | 1.14 | .55 | .79 | .28 | .55 | .55 | .55 | 18.5 | 8.94 | | | |
| | 8 | 315 | | 6 | 5 | 19,8 | 23 | 31 | 16 | 25 | 9 | 14 | 19 | 17 | 50 | 6,34 | | | |
| | .31 | 4568 | G 1/4 | 8 | 5 | 19,8 | 24 | 32 | 17 | 27 | 9 | 19 | 19 | 19 | 50 | 9,17 | FI-WEE-10LR-OK-B-W3 | | |
| | | | | .39 | 4568 | .31 | .20 | .78 | .94 | 1.26 | .67 | 1.06 | .35 | .75 | .75 | .75 | | 37.0 | 20.18 |
| | | | | 12 | 250 | 10 | 8 | 22,8 | 26 | 34 | 19 | 28 | 9 | 19 | 22 | 22 | | 80 | 10,39 |
| | .47 | 3625 | G 3/8 | 15 | 8 | 22,8 | 28 | 36 | 21 | 29 | 13 | 22 | 27 | 27 | 105 | 15,73 | FI-WEE-15LR-OK-B-W3 | | |
| | | | | .59 | 3625 | .39 | .31 | .90 | 1.02 | 1.34 | .75 | 1.10 | .35 | .75 | .87 | .87 | | 59.2 | 22.87 |
| | | | | 18 | 250 | 12 | 12 | 27,8 | 28 | 36 | 21 | 29 | 13 | 22 | 27 | 27 | | 105 | 15,73 |
| | .71 | 3625 | G 1/2 | 22 | 12 | 27,8 | 31 | 40 | 23,5 | 33 | 13 | 27 | 27 | 32 | 105 | 22,29 | FI-WEE-18LR-OK-B-W3 | | |
| | | | | .71 | 3625 | .59 | .47 | 1.09 | 1.22 | 1.57 | .93 | 1.30 | .51 | 1.06 | 1.06 | 1.26 | | 77.7 | 49.04 |
| | | | | 28 | 160 | 19 | 16 | 32,8 | 35 | 44 | 27,5 | 38 | 13 | 30 | 36 | 36 | | 220 | 33,01 |
| | .87 | 2320 | G 3/4 | 28 | 16 | 32,8 | 38 | 47 | 30,5 | 44 | 15 | 36 | 41 | 41 | 370 | 50,60 | FI-WEE-22LR-OK-B-W3 | | |
| | | | | 1.10 | 2320 | .75 | .63 | 1.29 | 1.38 | 1.73 | 1.08 | 1.50 | .51 | 1.18 | 1.42 | 1.42 | | 162.8 | 72.63 |
| | | | | 35 | 160 | 24 | 20 | 40,8 | 38 | 47 | 30,5 | 44 | 15 | 36 | 41 | 41 | | 370 | 50,60 |
| 1.38 | 2320 | G 1 | 42 | 20 | 40,8 | 48 | 59 | 37,5 | 55 | 15 | 50 | 50 | 50 | 500 | 115,30 | FI-WEE-28LR-OK-B-W3 | | | |
| | | | 1.38 | 2320 | 1.18 | .98 | 2.00 | 1.89 | 2.32 | 1.48 | 2.17 | .59 | 1.97 | 1.97 | 1.97 | | 370.0 | 253.66 | |
| | | | 42 | 160 | 30 | 25 | 50,8 | 48 | 59 | 37,5 | 55 | 15 | 50 | 50 | 50 | | 500 | 115,30 | |
| 1.65 | 2320 | G 1 1/4 | 42 | 25 | 50,8 | 49 | 61 | 38 | 59 | 15 | 50 | 55 | 60 | 600 | 112,50 | FI-WEE-35LR-OK-B-W3 | | | |
| | | | 1.65 | 2320 | 1.42 | 1.26 | 2.20 | 1.93 | 2.40 | 1.50 | 2.32 | .59 | 1.97 | 2.17 | 2.36 | | 444.0 | 247.50 | |
| | | | 42 | 160 | 36 | 32 | 55,8 | 49 | 61 | 38 | 59 | 15 | 50 | 55 | 60 | | 600 | 112,50 | |
| S | 6 | 315 | G 1/4 | 4 | 5 | 19,8 | 22 | 30 | 15 | 25 | 9 | 14 | 19 | 17 | 50 | 6,62 | FI-WEE-06SR-OK-B-W3 | | |
| | .24 | 4568 | | .16 | .20 | .78 | .87 | 1.18 | .59 | .98 | .35 | .55 | .75 | .67 | 37.0 | 14.56 | | | |
| | 8 | 315 | | 5 | 5 | 19,8 | 24 | 32 | 17 | 27 | 9 | 19 | 19 | 19 | 50 | 9,70 | | | |
| | .31 | 4568 | G 1/4 | 7 | 8 | 22,8 | 25 | 34 | 17,5 | 28 | 9 | 19 | 22 | 22 | 80 | 10,96 | FI-WEE-08SR-OK-B-W3 | | |
| | | | | .39 | 3625 | .20 | .20 | .78 | .94 | 1.26 | .67 | 1.06 | .35 | .75 | .75 | .75 | | 37.0 | 21.34 |
| | | | | 10 | 250 | 7 | 8 | 22,8 | 25 | 34 | 17,5 | 28 | 9 | 19 | 22 | 22 | | 80 | 10,96 |
| | .47 | 3625 | G 3/8 | 12 | 8 | 22,8 | 29 | 38 | 21,5 | 31 | 9 | 22 | 22 | 24 | 80 | 14,98 | FI-WEE-10SR-OK-B-W3 | | |
| | | | | .47 | 3625 | .28 | .31 | .90 | .98 | 1.34 | .69 | 1.10 | .35 | .75 | .87 | .87 | | 59.2 | 24.12 |
| | | | | 12 | 250 | 8 | 8 | 22,8 | 29 | 38 | 21,5 | 31 | 9 | 22 | 22 | 24 | | 80 | 14,98 |
| | .63 | 3625 | G 3/8 | 16 | 8 | 22,8 | 29 | 38 | 21,5 | 31 | 9 | 22 | 22 | 24 | 80 | 14,98 | FI-WEE-12SR-OK-B-W3 | | |
| | | | | .63 | 3625 | .31 | .31 | .90 | 1.14 | 1.50 | .85 | 1.22 | .35 | .87 | .87 | .94 | | 59.2 | 32.95 |
| | | | | 16 | 250 | 12 | 12 | 27,8 | 33 | 43 | 24,5 | 33 | 13 | 27 | 27 | 30 | | 105 | 23,56 |
| | .79 | 3625 | G 1/2 | 20 | 12 | 27,8 | 33 | 43 | 24,5 | 33 | 13 | 27 | 27 | 30 | 105 | 23,56 | FI-WEE-16SR-OK-B-W3 | | |
| | | | | .79 | 3625 | .47 | .47 | 1.09 | 1.30 | 1.69 | .96 | 1.30 | .51 | 1.06 | 1.06 | 1.18 | | 77.7 | 51.84 |
| | | | | 20 | 250 | 16 | 16 | 32,8 | 38 | 49 | 27,5 | 39 | 12 | 30 | 36 | 36 | | 220 | 36,41 |
| .98 | 3625 | G 3/4 | 25 | 16 | 32,8 | 38 | 49 | 27,5 | 39 | 12 | 30 | 36 | 36 | 220 | 36,41 | FI-WEE-20SR-OK-B-W3 | | | |
| | | | .98 | 3625 | .63 | .63 | 1.29 | 1.50 | 1.93 | 1.08 | 1.54 | .47 | 1.18 | 1.42 | 1.42 | | 162.8 | 80.09 | |
| | | | 25 | 250 | 20 | 20 | 40,8 | 42 | 54 | 30 | 45 | 14 | 36 | 41 | 46 | | 370 | 56,20 | |
| 1.18 | 2320 | G 1 | 30 | 20 | 40,8 | 42 | 54 | 30 | 45 | 14 | 36 | 41 | 46 | 370 | 56,20 | FI-WEE-25SR-OK-B-W3 | | | |
| | | | 1.18 | 2320 | .79 | .79 | 1.61 | 1.65 | 2.13 | 1.18 | 1.77 | .55 | 1.42 | 1.61 | 1.81 | | 273.8 | 123.64 | |
| | | | 30 | 160 | 25 | 25 | 50,8 | 49 | 62 | 35,5 | 55 | 15 | 50 | 50 | 50 | | 500 | 120,20 | |
| 1.50 | 2320 | G 1 1/4 | 38 | 25 | 50,8 | 49 | 62 | 35,5 | 55 | 15 | 50 | 50 | 50 | 500 | 120,20 | FI-WEE-30SR-OK-B-W3 | | | |
| | | | 1.50 | 2320 | .98 | .98 | 2.00 | 1.93 | 2.44 | 1.40 | 2.17 | .59 | 1.97 | 1.97 | 1.97 | | 370.0 | 264.44 | |
| | | | 38 | 160 | 32 | 32 | 55,8 | 50 | 65 | 34 | 59 | 15 | 50 | 55 | 60 | | 600 | 120,30 | |
| 1.50 | 2320 | G 1 1/2 | 42 | 32 | 55,8 | 50 | 65 | 34 | 59 | 15 | 50 | 55 | 60 | 600 | 120,30 | FI-WEE-38SR-OK-B-W3 | | | |
| | | | 1.50 | 2320 | 1.26 | 1.26 | 2.20 | 1.97 | 2.56 | 1.34 | 2.32 | .59 | 1.97 | 2.17 | 2.36 | | 444.0 | 264.66 | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).

Male stud acc. to ISO 1179-3 (Type H)
 Port acc. to ISO 1179-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes

***FI-WEE*-10*L*R*-OK*-B*-W3*-MS**

- * Adjustable Male Stud Elbow (90°) with Lock Nut **FI-WEE**
- * Outside Tube Diameter (in mm) **-10**
- * Series **L** Light Series
S Heavy Series
- * Thread Type **R** Whitworth Parallel Pipe Thread (BSP)

- * Seal Type **-OK** O-Ring and Retaining Ring (Small)
- * Seal Material **-B** NBR (Buna-N®)
-V FKM (Viton®)
-E EPDM
- * Material Code **-W3** Steel, zinc/nickel-plated

- * Assembling / Kitting **---** Fitting body only
- MS** Fitting body supplied with cutting ring and union nut
- MSV** Fitting body supplied with soft-sealing cutting ring and union nut

If required, please indicate special sizes, e.g. R1/8!

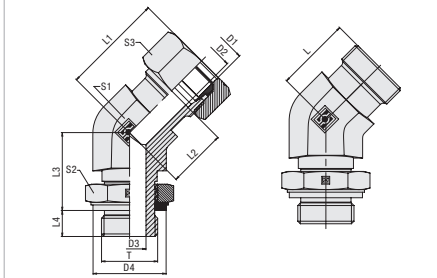
Please contact STAUFF for alternative materials and surface finishings.



**Adjustable Male Stud Elbow (45°) with Lock Nut
Type FI-VEE-...-R-OK • Series L / S**
**Adjustable Male Stud Branch Tee with Lock Nut
Type FI-TEE-...-R-OK • Series L / S**
**Adjustable Male Stud Barrel Tee with Lock Nut
Type FI-LEE-...-R-OK • Series L / S**
Type FI-VEE-...-R-OK

Whitworth Parallel Pipe Thread (BSPP)
O-Ring and Retaining Ring (Small)

Male stud acc. to ISO 1179-3 (Type H)
Port acc. to ISO 1179-1

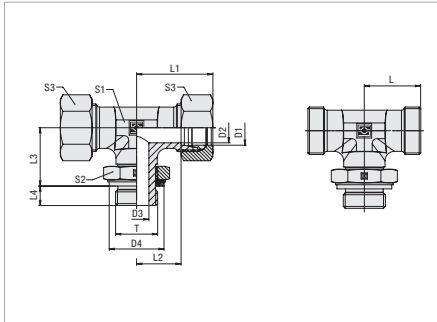


Dimensions L, L1, L2 and L3 deviating from the dimension table on the left.


Type FI-TEE-...-R-OK

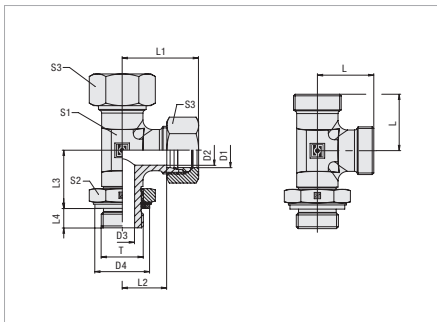
Whitworth Parallel Pipe Thread (BSPP)
O-Ring and Retaining Ring (Small)

Male stud acc. to ISO 1179-3 (Type H)
Port acc. to ISO 1179-1


Type FI-LEE-...-R-OK

Whitworth Parallel Pipe Thread (BSPP)
O-Ring and Retaining Ring (Small)

Male stud acc. to ISO 1179-3 (Type H)
Port acc. to ISO 1179-1



Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Connecting Parts


Cutting Ring
Type **FI-DS** Page 26



Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27



Support Sleeve
Type **FI-VH** Page 28



STAUFF Form Ring
Type **FI-AR** Page 30



Union Nut
Type **FI-M** Page 31



37° Flared Tube Fitting Set
Type **FI-AB** Page 35

Spare Parts / Accessories

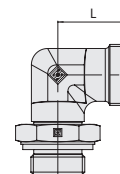
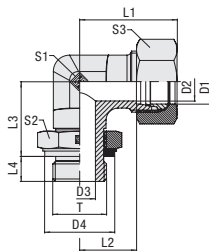

O-Ring
Type **O-RING** Page 207



Retaining Ring (Small)
Type **FI-KR** Page 215



Adjustable Male Stud Elbow (90°) with Lock Nut Type FI-WEE-...-M-OK • Series L / S



Metric Parallel Thread

O-Ring and Retaining Ring (Small)

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | Metric Parallel Thread | | | | | | | | | | | Torque (N·m/ft·lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------------------------|------|------|------|------|-----------------|------|------|------|------|-------|-----------------------|--|-----------------------------|
| | | | | Thread T | D2 | D3 | D4 | L | L1 ¹ | L2 | L3 | L4 | S1 | S2 | | | |
| L | 6 | 315 | M 10 x 1 | 4 | 4 | 14,8 | 21 | 29 | 14 | 20 | 7 | 14 | 14 | 14 | 18 | 4,42 | FI-WEE-06LM-OK-B-W3 |
| | .24 | 4568 | | .16 | .16 | .58 | .83 | 1.14 | .55 | .79 | .28 | .55 | .55 | .55 | 13.3 | 9.72 | |
| | 8 | 315 | M 12 x 1,5 | 6 | 4 | 17,8 | 23 | 31 | 16 | 23,5 | 10 | 14 | 17 | 35 | 5,14 | FI-WEE-08LM-OK-B-W3 | |
| | .31 | 4568 | | .24 | .16 | .70 | .91 | 1.22 | .63 | .93 | .39 | .55 | .67 | .67 | 25.9 | | 11.31 |
| | 10 | 315 | M 14 x 1,5 | 8 | 5 | 19,8 | 24 | 32 | 17 | 27 | 10 | 19 | 19 | 19 | 55 | 8,60 | FI-WEE-10LM-OK-B-W3 |
| | .39 | 4568 | | .31 | .20 | .78 | .94 | 1.26 | .67 | 1.06 | .39 | .75 | .75 | .75 | 40.7 | 18.92 | |
| | 12 | 315 | M 16 x 1,5 | 10 | 7 | 22,8 | 26 | 34 | 19 | 27 | 10 | 19 | 22 | 22 | 80 | 10,44 | FI-WEE-12LM-OK-B-W3 |
| | .47 | 4568 | | .39 | .28 | .90 | 1.02 | 1.34 | .75 | 1.06 | .39 | .75 | .87 | .87 | 59.2 | 22.96 | |
| | 15 | 315 | M 18 x 1,5 | 12 | 8 | 24,8 | 28 | 36 | 21 | 29 | 11 | 22 | 24 | 27 | 105 | 14,89 | FI-WEE-15LM-OK-B-W3 |
| | .59 | 4568 | | .47 | .31 | .98 | 1.10 | 1.42 | .83 | 1.14 | .43 | .87 | .94 | 1.06 | 77.7 | 32.75 | |
| | 18 | 250 | M 22 x 1,5 | 15 | 12 | 27,8 | 31 | 40 | 23,5 | 36 | 12 | 27 | 27 | 32 | 125 | 23,93 | FI-WEE-18LM-OK-B-W3 |
| | .71 | 3625 | | .59 | .47 | 1.09 | 1.22 | 1.57 | .93 | 1.42 | .47 | 1.06 | 1.06 | 1.26 | 92.5 | 52.65 | |
| | 22 | 160 | M 27 x 2 | 19 | 16 | 32,8 | 35 | 44 | 27,5 | 38 | 14 | 30 | 32 | 36 | 220 | 30,36 | FI-WEE-22LM-OK-B-W3 |
| | .87 | 2320 | | .75 | .63 | 1.29 | 1.38 | 1.73 | 1.08 | 1.50 | .55 | 1.18 | 1.26 | 1.42 | 162.8 | 66.79 | |
| | 28 | 160 | M 33 x 2 | 24 | 20 | 40,8 | 38 | 47 | 30,5 | 47 | 14 | 36 | 41 | 41 | 370 | 51,70 | FI-WEE-28LM-OK-B-W3 |
| | 1.10 | 2320 | | .94 | .79 | 1.61 | 1.50 | 1.85 | 1.20 | 1.85 | .55 | 1.42 | 1.61 | 1.61 | 273.8 | 113.74 | |
| 35 | 160 | M 42 x 2 | 30 | 25 | 50,8 | 48 | 59 | 37,5 | 58 | 14 | 50 | 50 | 50 | 500 | 106,10 | FI-WEE-35LM-OK-B-W3 | |
| 1.38 | 2320 | | 1.18 | .98 | 2.00 | 1.89 | 2.32 | 1.48 | 2.28 | .55 | 1.97 | 1.97 | 1.97 | 370.0 | 233.42 | | |
| 42 | 160 | M 48 x 2 | 36 | 32 | 55,8 | 49 | 61 | 38 | 58,5 | 16 | 50 | 55 | 60 | 600 | 101,60 | FI-WEE-42LM-OK-B-W3 | |
| 1.65 | 2320 | | 1.42 | 1.26 | 2.20 | 1.93 | 2.40 | 1.50 | 2.30 | .63 | 1.97 | 2.17 | 2.36 | 444.0 | 223.52 | | |
| S | 6 | 315 | M 12 x 1,5 | 4 | 4 | 17,8 | 22 | 30 | 15 | 23,5 | 10 | 14 | 17 | 35 | 6,43 | FI-WEE-06SM-OK-B-W3 | |
| | .24 | 4568 | | .16 | .16 | .70 | .87 | 1.18 | .59 | .93 | .39 | .55 | .67 | .67 | 25.9 | | 14.14 |
| | 8 | 315 | M 14 x 1,5 | 5 | 5 | 19,8 | 24 | 32 | 17 | 27 | 10 | 19 | 19 | 55 | 9,06 | FI-WEE-08SM-OK-B-W3 | |
| | .31 | 4568 | | .20 | .20 | .78 | .94 | 1.26 | .67 | 1.06 | .39 | .75 | .75 | .75 | 40.7 | | 19.94 |
| | 10 | 315 | M 16 x 1,5 | 7 | 7 | 22,8 | 25 | 34 | 17,5 | 26 | 11 | 19 | 22 | 80 | 11,02 | FI-WEE-10SM-OK-B-W3 | |
| | .39 | 4568 | | .28 | .28 | .90 | .98 | 1.34 | .69 | 1.02 | .43 | .75 | .87 | .87 | 59.2 | | 24.24 |
| | 12 | 315 | M 18 x 1,5 | 8 | 8 | 24,8 | 29 | 38 | 21,5 | 28 | 12 | 22 | 24 | 24 | 105 | 15,90 | FI-WEE-12SM-OK-B-W3 |
| | .47 | 4568 | | .31 | .31 | .98 | 1.14 | 1.50 | .85 | 1.10 | .47 | .87 | .94 | .94 | 77.7 | 34.98 | |
| | 16 | 250 | M 22 x 1,5 | 12 | 12 | 27,8 | 33 | 43 | 24,5 | 34 | 14 | 27 | 27 | 30 | 125 | 25,14 | FI-WEE-16SM-OK-B-W3 |
| | .63 | 3625 | | .47 | .47 | 1.09 | 1.30 | 1.69 | .96 | 1.34 | .55 | 1.06 | 1.06 | 1.18 | 92.5 | 55.31 | |
| | 20 | 250 | M 27 x 2 | 16 | 16 | 32,8 | 38 | 49 | 27,5 | 36 | 16 | 30 | 32 | 36 | 220 | 38,45 | FI-WEE-20SM-OK-B-W3 |
| | .79 | 3625 | | .63 | .63 | 1.29 | 1.50 | 1.93 | 1.08 | 1.42 | .63 | 1.18 | 1.26 | 1.42 | 162.8 | 84.59 | |
| | 25 | 160 | M 33 x 2 | 20 | 20 | 40,8 | 42 | 54 | 30 | 45 | 16 | 36 | 41 | 46 | 370 | 53,82 | FI-WEE-25SM-OK-B-W3 |
| | .98 | 2320 | | .79 | .79 | 1.61 | 1.65 | 2.13 | 1.18 | 1.77 | .63 | 1.42 | 1.61 | 1.81 | 273.8 | 118.40 | |
| 30 | 160 | M 42 x 2 | 25 | 25 | 50,8 | 49 | 62 | 35,5 | 55 | 17 | 50 | 50 | 50 | 500 | 110,10 | FI-WEE-30SM-OK-B-W3 | |
| 1.18 | 2320 | | .98 | .98 | 2.00 | 1.93 | 2.44 | 1.40 | 2.17 | .67 | 1.97 | 1.97 | 1.97 | 370.0 | 242.22 | | |
| 38 | 160 | M 48 x 2 | 32 | 32 | 55,8 | 50 | 65 | 34 | 55,5 | 19 | 50 | 55 | 60 | 600 | 109,30 | FI-WEE-38SM-OK-B-W3 | |
| 1.50 | 2320 | | 1.26 | 1.26 | 2.20 | 1.97 | 2.56 | 1.34 | 2.19 | .75 | 1.97 | 2.17 | 2.36 | 444.0 | 240.46 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Port acc. to ISO 9974-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Standard seal material is NBR (Buna-N®).

Ordering Codes

***FI-WEE*-10*L*M*-OK*-B*-W3*-MS**

- * Adjustable Male Stud Elbow (90°) with Lock Nut **FI-WEE**
- * Outside Tube Diameter (in mm) **-10**
- * Series Light Series **L**
Heavy Series **S**
- * Thread Type Metric Parallel Thread **M**

If required, please indicate special sizes, e.g. M26x1.5!

- * Seal Type O-Ring and Retaining Ring (Small) **-OK**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

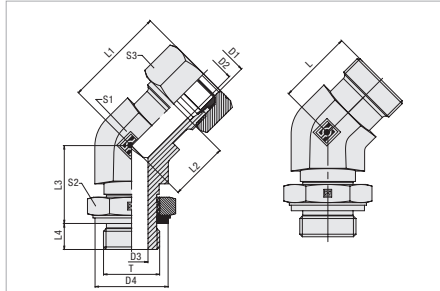
- * Assembling / Kitting Fitting body only **—**
- Fitting body supplied with cutting ring and union nut **-MS**
- Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**



**Adjustable Male Stud Elbow (45°) with Lock Nut
Type FI-VEE-...-M-OK • Series L / S**
**Adjustable Male Stud Branch Tee with Lock Nut
Type FI-TEE-...-M-OK • Series L / S**
**Adjustable Male Stud Barrel Tee with Lock Nut
Type FI-LEE-...-M-OK • Series L / S**
Type FI-VEE-...-M-OK

Metric Parallel Thread
O-Ring and Retaining Ring (Small)

Port acc. to ISO 9974-1

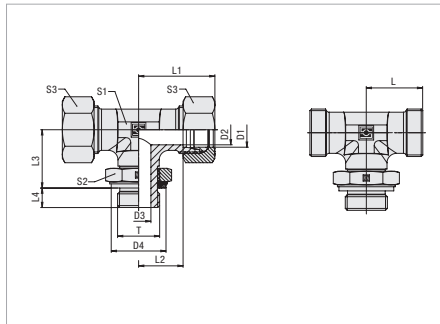


Dimensions L, L1, L2 and L3 deviating from the dimension table on the left.


Type FI-TEE-...-M-OK

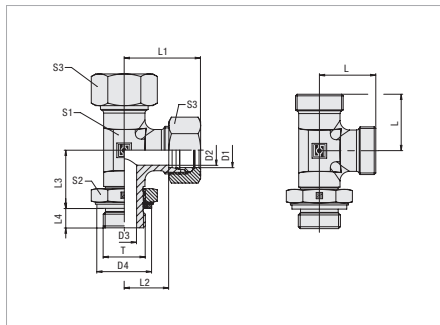
Metric Parallel Thread
O-Ring and Retaining Ring (Small)

Port acc. to ISO 9974-1


Type FI-LEE-...-M-OK

Metric Parallel Thread
O-Ring and Retaining Ring (Small)

Port acc. to ISO 9974-1



Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Connecting Parts


Cutting Ring
Type **FI-DS** Page 26



Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27



Support Sleeve
Type **FI-VH** Page 28



STAUFF Form Ring
Type **FI-AR** Page 30



Union Nut
Type **FI-M** Page 31



37° Flared Tube Fitting Set
Type **FI-AB** Page 35

Spare Parts / Accessories

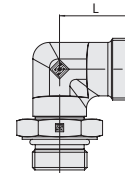
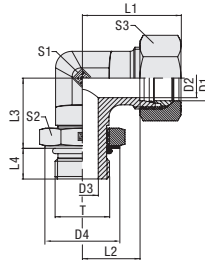

O-Ring
Type **O-RING** Page 207



Retaining Ring (Small)
Type **FI-KR** Page 215



Adjustable Male Stud Elbow (90°) with Lock Nut
Type FI-WEE-...-M-OR • Series L / S



Metric Parallel Thread

O-Ring

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | Dimensions | | | | | | | | | | | Torque (Nm/ft-lb) | Weight (kg/lbs) ca. | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------------|------|------|------|------|------|-----------------|------|------|------|--------|------------------------|------------------------|-----------------------------|
| | | | | Thread | T | D2 | D3 | D4 | L | L1 ¹ | L2 | L3 | L4 | S1 | | | |
| L | 6 | 315 | M 10 x 1 | 4 | 4 | 14,5 | 21 | 29 | 14 | 20 | 7 | 14 | 14 | 14 | 15 | 5,16 | FI-WEE-06LM-OR-B-W3-MS |
| | .24 | 4568 | | .16 | .16 | .57 | .83 | 1.14 | .55 | .79 | .28 | .55 | .55 | .55 | 11.1 | 11.35 | |
| | 8 | 315 | M 12 x 1,5 | 6 | 4 | 17,5 | 23 | 31 | 16 | 23,5 | 10 | 14 | 17 | 17 | 25 | 5,44 | FI-WEE-08LM-OR-B-W3-MS |
| | .31 | 4568 | | .24 | .16 | .69 | .91 | 1.22 | .63 | .93 | .39 | .55 | .67 | .67 | 18.5 | 11.96 | |
| | 10 | 315 | M 14 x 1,5 | 8 | 5 | 19,5 | 24 | 32 | 17 | 27 | 10 | 19 | 19 | 19 | 35 | 9,00 | FI-WEE-10LM-OR-B-W3-MS |
| | .39 | 4568 | | .31 | .20 | .77 | .94 | 1.26 | .67 | 1.06 | .39 | .75 | .75 | .75 | 25.9 | 19.80 | |
| | 12 | 315 | M 16 x 1,5 | 10 | 7 | 22,5 | 26 | 34 | 19 | 27 | 10 | 19 | 22 | 22 | 40 | 10,23 | FI-WEE-12LM-OR-B-W3-MS |
| | .47 | 4568 | | .39 | .28 | .89 | 1.02 | 1.34 | .75 | 1.06 | .39 | .75 | .87 | .87 | 29.6 | 22.51 | |
| | 15 | 315 | M 18 x 1,5 | 12 | 8 | 24,5 | 28 | 36 | 21 | 29 | 11 | 22 | 24 | 27 | 45 | 14,59 | FI-WEE-15LM-OR-B-W3-MS |
| | .59 | 4568 | | .47 | .31 | .96 | 1.10 | 1.42 | .83 | 1.14 | .43 | .87 | .94 | 1.06 | 33.3 | 32.11 | |
| | 18 | 250 | M 22 x 1,5 | 15 | 12 | 27,5 | 31 | 40 | 23,5 | 36 | 12 | 27 | 27 | 32 | 60 | 23,09 | FI-WEE-18LM-OR-B-W3-MS |
| | .71 | 3625 | | .59 | .47 | 1.08 | 1.22 | 1.57 | .93 | 1.42 | .47 | 1.06 | 1.06 | 1.26 | 44.4 | 50.80 | |
| | 22 | 160 | M 27 x 2 | 19 | 16 | 32,5 | 35 | 44 | 27,5 | 38 | 14 | 30 | 32 | 36 | 100 | 39,11 | FI-WEE-22LM-OR-B-W3-MS |
| | .87 | 2320 | | .75 | .63 | 1.28 | 1.38 | 1.73 | 1.08 | 1.50 | .55 | 1.18 | 1.26 | 1.42 | 74.0 | 86.04 | |
| | 28 | 160 | M 33 x 2 | 24 | 20 | 41,5 | 38 | 47 | 30,5 | 47 | 14 | 36 | 41 | 41 | 160 | 61,54 | FI-WEE-28LM-OR-B-W3-MS |
| | 1.10 | 2320 | | .94 | .79 | 1.63 | 1.50 | 1.85 | 1.20 | 1.85 | .55 | 1.42 | 1.61 | 1.61 | 118.4 | 135.38 | |
| 35 | 160 | M 42 x 2 | 30 | 25 | 50,5 | 48 | 59 | 37,5 | 58 | 14 | 50 | 50 | 50 | 210 | 131,90 | FI-WEE-35LM-OR-B-W3-MS | |
| 1.38 | 2320 | | 1.18 | .98 | 1.99 | 1.89 | 2.32 | 1.48 | 2.28 | .55 | 1.97 | 1.97 | 1.97 | 155.4 | 290.18 | | |
| 42 | 160 | M 48 x 2 | 36 | 32 | 55,5 | 49 | 61 | 38 | 58,5 | 16 | 50 | 55 | 60 | 260 | 136,43 | FI-WEE-42LM-OR-B-W3-MS | |
| 1.65 | 2320 | | 1.42 | 1.26 | 2.19 | 1.93 | 2.40 | 1.50 | 2.30 | .63 | 1.97 | 2.17 | 2.36 | 192.4 | 300.15 | | |
| S | 6 | 315 | M 12 x 1,5 | 4 | 4 | 17,5 | 22 | 30 | 15 | 23,5 | 10 | 14 | 17 | 17 | 35 | 7,62 | FI-WEE-06SM-OR-B-W3-MS |
| | .24 | 4568 | | .16 | .16 | .69 | .87 | 1.18 | .59 | .93 | .39 | .55 | .67 | .67 | 25.9 | 16.77 | |
| | 8 | 315 | M 14 x 1,5 | 5 | 5 | 19,5 | 24 | 32 | 17 | 27 | 10 | 19 | 19 | 45 | 11,98 | FI-WEE-08SM-OR-B-W3-MS | |
| | .31 | 4568 | | .20 | .20 | .77 | .94 | 1.26 | .67 | 1.06 | .39 | .75 | .75 | .75 | 33.3 | | 26.35 |
| | 10 | 315 | M 16 x 1,5 | 7 | 7 | 22,5 | 25 | 34 | 17,5 | 26 | 11 | 19 | 22 | 22 | 55 | 10,81 | FI-WEE-10SM-OR-B-W3-MS |
| | .39 | 4568 | | .28 | .28 | .89 | .98 | 1.34 | .69 | 1.02 | .43 | .75 | .87 | .87 | 40.7 | 23.79 | |
| | 12 | 315 | M 18 x 1,5 | 8 | 8 | 24,5 | 29 | 38 | 21,5 | 28 | 12 | 22 | 24 | 24 | 70 | 15,60 | FI-WEE-12SM-OR-B-W3-MS |
| | .47 | 4568 | | .31 | .31 | .96 | 1.14 | 1.50 | .85 | 1.10 | .47 | .87 | .94 | .94 | 51.8 | 34.32 | |
| | 16 | 250 | M 22 x 1,5 | 12 | 12 | 27,5 | 33 | 43 | 24,5 | 34 | 14 | 27 | 27 | 30 | 100 | 24,52 | FI-WEE-16SM-OR-B-W3-MS |
| | .63 | 3625 | | .47 | .47 | 1.08 | 1.30 | 1.69 | .96 | 1.34 | .55 | 1.06 | 1.06 | 1.18 | 74.0 | 53.94 | |
| | 20 | 250 | M 27 x 2 | 16 | 16 | 32,5 | 38 | 49 | 27,5 | 36 | 16 | 30 | 32 | 36 | 170 | 33,16 | FI-WEE-20SM-OR-B-W3-MS |
| | .79 | 3625 | | .63 | .63 | 1.28 | 1.50 | 1.93 | 1.08 | 1.42 | .63 | 1.18 | 1.26 | 1.42 | 125.8 | 72.96 | |
| | 25 | 160 | M 33 x 2 | 20 | 20 | 41,5 | 42 | 54 | 30 | 45 | 16 | 36 | 41 | 46 | 310 | 56,70 | FI-WEE-25SM-OR-B-W3-MS |
| | .98 | 2320 | | .79 | .79 | 1.63 | 1.65 | 2.13 | 1.18 | 1.77 | .63 | 1.42 | 1.61 | 1.81 | 229.4 | 124.74 | |
| 30 | 160 | M 42 x 2 | 25 | 25 | 50,5 | 49 | 62 | 35,5 | 55 | 17 | 50 | 50 | 330 | 144,57 | FI-WEE-30SM-OR-B-W3-MS | | |
| 1.18 | 2320 | | .98 | .98 | 1.99 | 1.93 | 2.44 | 1.40 | 2.17 | .67 | 1.97 | 1.97 | 1.97 | 244.2 | | 318.05 | |
| 38 | 160 | M 48 x 2 | 32 | 32 | 55,5 | 50 | 65 | 34 | 55,5 | 19 | 50 | 55 | 60 | 420 | 152,80 | FI-WEE-38SM-OR-B-W3-MS | |
| 1.50 | 2320 | | 1.26 | 1.26 | 2.19 | 1.97 | 2.56 | 1.34 | 2.19 | .75 | 1.97 | 2.17 | 2.36 | 310.8 | 336.17 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).

Male stud according to ISO 6149-2/-3
 Port according to ISO 6149-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes

***FI-WEE*-10*L*M*-OR*-B*-W3*-MS**

- * Adjustable Male Stud Elbow (90°) with Lock Nut **FI-WEE**
- * Outside Tube Diameter (in mm) **-10**
- * Series Light Series **L**
Heavy Series **S**
- * Thread Type Metric Parallel Thread **M**

If required, please indicate special sizes, e.g. M26x1.5!

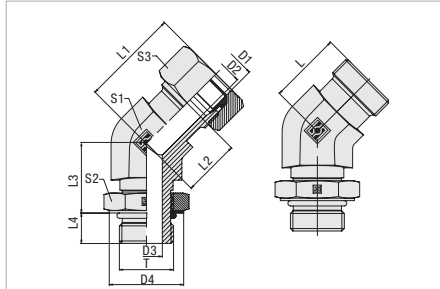
- * Seal Type O-Ring **-OR**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

- * Assembling / Kitting Fitting body only **—**
- Fitting body supplied with cutting ring and union nut **-MS**
- Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

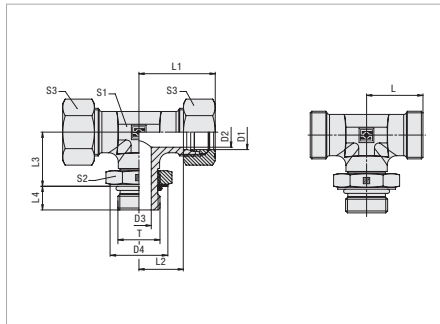


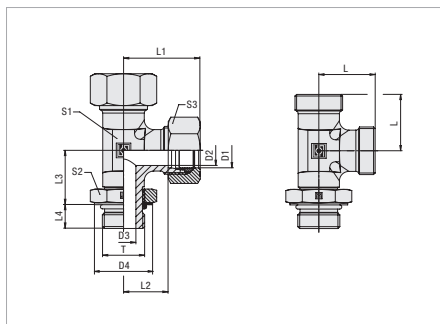
**Adjustable Male Stud Elbow (45°) with Lock Nut
Type FI-VEE-...-M-OR • Series L / S**
**Adjustable Male Stud Branch Tee with Lock Nut
Type FI-TEE-...-M-OR • Series L / S**
**Adjustable Male Stud Barrel Tee with Lock Nut
Type FI-LEE-...-M-OR • Series L / S**
Type FI-VEE-...-M-OR
**Metric Parallel Thread
O-Ring**

 Male stud according to ISO 6149-2/-3
 Port according to ISO 6149-1


Dimensions L, L1, L2 and L3 deviating from the dimension table on the left.


Type FI-TEE-...-M-OR
**Metric Parallel Thread
O-Ring**

 Male stud according to ISO 6149-2/-3
 Port according to ISO 6149-1

Type FI-LEE-...-M-OR
**Metric Parallel Thread
O-Ring**

 Male stud according to ISO 6149-2/-3
 Port according to ISO 6149-1


Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Connecting Parts

 Cutting Ring
 Type **FI-DS** Page 26

 Soft-Sealing Cutting Ring
 Type **FI-WDDS** Page 27

 Support Sleeve
 Type **FI-VH** Page 28

 STAUFF Form Ring
 Type **FI-AR** Page 30

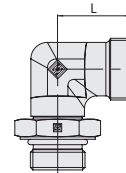
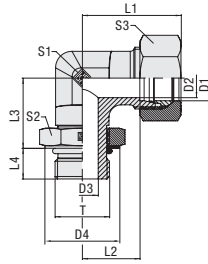
 Union Nut
 Type **FI-M** Page 31

 37° Flared Tube Fitting Set
 Type **FI-AB** Page 35

Spare Parts / Accessories

 O-Ring
 Type **O-RING** Page 207


Adjustable Male Stud Elbow (90°) with Lock Nut
Type FI-WEE-...-U • Series L / S



UN/UNF Thread

O-Ring

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | | | | | | Torque (Nm/ft-lb) | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | |
|--------|--------------------|-----------------|-----------------------|------|------|--------------|------|-----------------|------|------|------|------|------|------|----------|---------------------------|--|-----------------------------|--------|
| | | | Thread T | D2 | D3 | D4 | L | L1 ¹ | L2 | L3 | L4 | S1 | S2 | S3 | Thread T | | | | |
| L | 6 | 315 | 7/16-20 UNF | 4 | 4,5 | 16,5 | 21 | 29 | 14 | 21 | 11 | 14 | 17 | 14 | 20 | 5,02 | FI-WEE-06L7/16U-OR-B-W3 | | |
| | .24 | 4568 | | .16 | .18 | .65 | .83 | 1.14 | .55 | .83 | .43 | .55 | .67 | .55 | 14.8 | 11.04 | | | |
| | 8 | 315 | | 6 | 4,5 | 16,5 | 23 | 31 | 16 | 21 | 11 | 14 | 17 | 17 | 20 | 5,16 | | | |
| | .31 | 4568 | 7/16-20 UNF | .24 | .18 | .65 | .91 | 1.22 | .63 | .83 | .43 | .55 | .67 | .67 | 14.8 | 11.36 | FI-WEE-08L7/16U-OR-B-W3 | | |
| | | | | 10 | 315 | 8 | 7,5 | 20,2 | 24 | 32 | 17 | 25 | 12 | 19 | 19 | 19 | | 18 | 14,99 |
| | | | | .39 | 4568 | 9/16-18 UNF | .31 | .30 | .80 | .94 | 1.26 | .67 | .98 | .47 | .75 | .75 | | .75 | 13.3 |
| | 12 | 315 | 9/16-18 UNF | 10 | 7,5 | 20,2 | 26 | 34 | 19 | 25,5 | 12 | 19 | 19 | 22 | 18 | 15,29 | FI-WEE-12L9/16U-OR-B-W3 | | |
| | | | | .47 | 4568 | .39 | .30 | .80 | 1.02 | 1.34 | .75 | 1.00 | .47 | .75 | .75 | .87 | | 13.3 | 33.63 |
| | | | | 15 | 315 | 12 | 10 | 25,7 | 28 | 36 | 21 | 30 | 14 | 22 | 24 | 27 | | 16 | 15,03 |
| | .59 | 4568 | 3/4-16 UNF | .47 | .39 | 1.01 | 1.10 | 1.42 | .83 | 1.18 | .55 | .87 | .94 | 1.06 | 11.8 | 33.07 | FI-WEE-15L3/4U-OR-B-W3 | | |
| | | | | 18 | 250 | 15 | 12,5 | 29,3 | 31 | 40 | 23,5 | 35 | 16 | 27 | 27 | 32 | | 14 | 24,03 |
| | | | | .71 | 3625 | 7/8-14 UNF | .59 | .49 | 1.15 | 1.22 | 1.57 | .93 | 1.38 | .63 | 1.06 | 1.06 | | 1.26 | 10.4 |
| | 22 | 160 | 1 1/16-12 UN | 19 | 15,5 | 36,7 | 35 | 44 | 27,5 | 39 | 18 | 30 | 36 | 36 | 12 | 35,96 | FI-WEE-22L1-1/16U-OR-B-W3 | | |
| | | | | .87 | 2320 | .75 | .61 | 1.44 | 1.38 | 1.73 | 1.08 | 1.54 | .71 | 1.18 | 1.42 | 1.42 | | 8.9 | 79.11 |
| | | | | 28 | 160 | 24 | 21,5 | 44 | 38 | 47 | 30,5 | 43 | 18 | 36 | 41 | 41 | | 12 | 49,38 |
| 1.10 | 2320 | 1 5/16-12 UN | .94 | .85 | 1.73 | 1.50 | 1.85 | 1.20 | 1.69 | .71 | 1.42 | 1.61 | 1.61 | 8.9 | 108.64 | FI-WEE-28L1-5/16U-OR-B-W3 | | | |
| | | | 35 | 160 | 30 | 27,5 | 55 | 48 | 59 | 37,5 | 50 | 18 | 50 | 50 | 12 | | 106,22 | | |
| | | | 1.38 | 2320 | 1.18 | 1.08 | 2.17 | 1.89 | 2.32 | 1.48 | 1.97 | .71 | 1.97 | 1.97 | 1.97 | | 8.9 | 233.69 | |
| 42 | 160 | 1 7/8-12 UN | 36 | 33,5 | 62,3 | 49 | 61 | 37,89 | 52 | 18 | 50 | 55 | 60 | 12 | 101,73 | FI-WEE-42L1-7/8U-OR-B-W3 | | | |
| | | | 1.65 | 2320 | 1.42 | 1.32 | 2.45 | 1.93 | 2.40 | 1.49 | 2.05 | .71 | 1.97 | 2.17 | 2.36 | | 8.9 | 223.81 | |
| | | | S | 6 | 315 | 7/16-20 UNF | 4 | 4,5 | 16,5 | 22 | 30 | 15 | 21 | 11 | 14 | | 17 | 20 | 5,92 |
| .24 | 4568 | .16 | | .18 | .65 | | .87 | 1.18 | .59 | .83 | .43 | .55 | .67 | .67 | 14.8 | 13.03 | | | |
| 8 | 315 | 5 | | 7,5 | 20,2 | | 24 | 32 | 17 | 25 | 12 | 19 | 19 | 19 | 18 | 9,45 | | | |
| .31 | 4568 | 9/16-18 UNF | | .20 | .30 | .80 | .94 | 1.26 | .67 | .98 | .47 | .75 | .75 | .75 | 13.3 | 20.79 | FI-WEE-08S9/16U-OR-B-W3 | | |
| | | | | 10 | 315 | 7 | 7,5 | 20,2 | 25 | 34 | 17,5 | 25,5 | 12 | 19 | 19 | 22 | | 18 | 9,80 |
| | | | | .39 | 4568 | 9/16-18 UNF | .28 | .30 | .80 | .98 | 1.34 | .69 | 1.00 | .47 | .75 | .75 | | .87 | 13.3 |
| 12 | 315 | 3/4-16 UNF | | 8 | 10 | 25,7 | 29 | 38 | 21,5 | 30 | 14 | 22 | 24 | 24 | 16 | 16,06 | FI-WEE-12S3/4U-OR-B-W3 | | |
| | | | | .47 | 4568 | .31 | .39 | 1.01 | 1.14 | 1.50 | .85 | 1.18 | .55 | .87 | .94 | .94 | | 11.8 | 35.34 |
| | | | | 16 | 250 | 12 | 12,5 | 29,3 | 33 | 43 | 24,5 | 35 | 16 | 27 | 27 | 30 | | 14 | 25,18 |
| .63 | 3625 | 7/8-14 UNF | | .47 | .49 | 1.15 | 1.30 | 1.69 | .96 | 1.38 | .63 | 1.06 | 1.06 | 1.18 | 10.4 | 55.40 | FI-WEE-16S7/8U-OR-B-W3 | | |
| | | | | 20 | 250 | 16 | 15,5 | 36,7 | 38 | 49 | 27,5 | 39 | 18 | 30 | 36 | 36 | | 12 | 38,53 |
| | | | | .79 | 3625 | 1 1/16-12 UN | .63 | .61 | 1.44 | 1.50 | 1.93 | 1.08 | 1.54 | .71 | 1.18 | 1.42 | | 1.42 | 8.9 |
| 25 | 160 | 1 1/16-12 UN | | 20 | 15,5 | 36,7 | 42 | 54 | 30 | 43 | 18 | 36 | 36 | 46 | 12 | 53,90 | FI-WEE-20S1-1/16U-OR-B-W3 | | |
| | | | | .98 | 2320 | .79 | .61 | 1.44 | 1.65 | 2.13 | 1.18 | 1.69 | .71 | 1.42 | 1.42 | 1.81 | | 8.9 | 118.58 |
| | | | | 30 | 160 | 25 | 27,5 | 55 | 49 | 62 | 35,5 | 50 | 18 | 50 | 50 | 12 | | 110,22 | |
| 1.18 | 2320 | 1 5/8-12 UN | .98 | 1.08 | 2.17 | 1.93 | 2.44 | 1.40 | 1.97 | .71 | 1.97 | 1.97 | 1.97 | 8.9 | 242.49 | FI-WEE-30S1-5/8U-OR-B-W3 | | | |
| | | | 38 | 160 | 32 | 33,5 | 62,3 | 50 | 65 | 33,9 | 52 | 18 | 50 | 55 | 60 | | 12 | 109,43 | |
| | | | 1.50 | 2320 | 1.26 | 1.32 | 2.45 | 1.97 | 2.56 | 1.33 | 2.05 | .71 | 1.97 | 2.17 | 2.36 | | 8.9 | 240.75 | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).

Male stud acc. to ISO 11926-2/-3

Port acc. to ISO 11926-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes

***FI-WEE*-10*L*9/16*U*-OR*-B*-W3*-MS**

- * Adjustable Male Stud Elbow (90°) with Lock Nut **FI-WEE**
- * Outside Tube Diameter (in mm) **-10**
- * Series Light Series **L**
Heavy Series **S**
- * Thread Size acc. to dimension table **9/16**

Please always indicate thread sizes, e.g. 9/16!

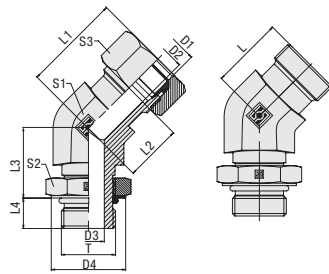
- * Thread Type UN/UNF Thread with O-Ring **U**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

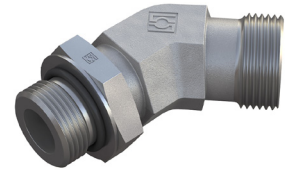
- * Assembling / Kitting Fitting body only **—**
- Fitting body supplied with cutting ring and union nut **-MS**
- Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

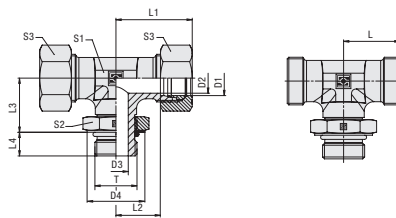


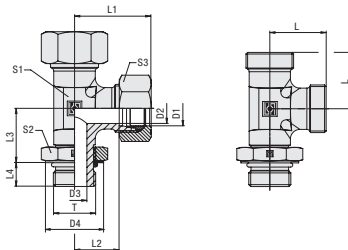
**Adjustable Male Stud Elbow (45°) with Lock Nut
Type FI-VEE-...-U • Series L / S**
**Adjustable Male Stud Branch Tee with Lock Nut
Type FI-TEE-...-U • Series L / S**
**Adjustable Male Stud Barrel Tee with Lock Nut
Type FI-LEE-...-U • Series L / S**
Type FI-VEE-...-U
**UN/UNF Thread
O-Ring**

 Male stud according to ISO 6149-2/-3
 Port according to ISO 6149-1


Dimensions L, L1, L2 and L3 deviating from the dimension table on the left.


Type FI-TEE-...-U
**UN/UNF Thread
O-Ring**

 Male stud according to ISO 6149-2/-3
 Port according to ISO 6149-1

Type FI-LEE-...-U
**UN/UNF Thread
O-Ring**

 Male stud according to ISO 6149-2/-3
 Port according to ISO 6149-1


Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Connecting Parts

 Cutting Ring
 Type **FI-DS** Page 26

 Soft-Sealing Cutting Ring
 Type **FI-WDDS** Page 27

 Support Sleeve
 Type **FI-VH** Page 28

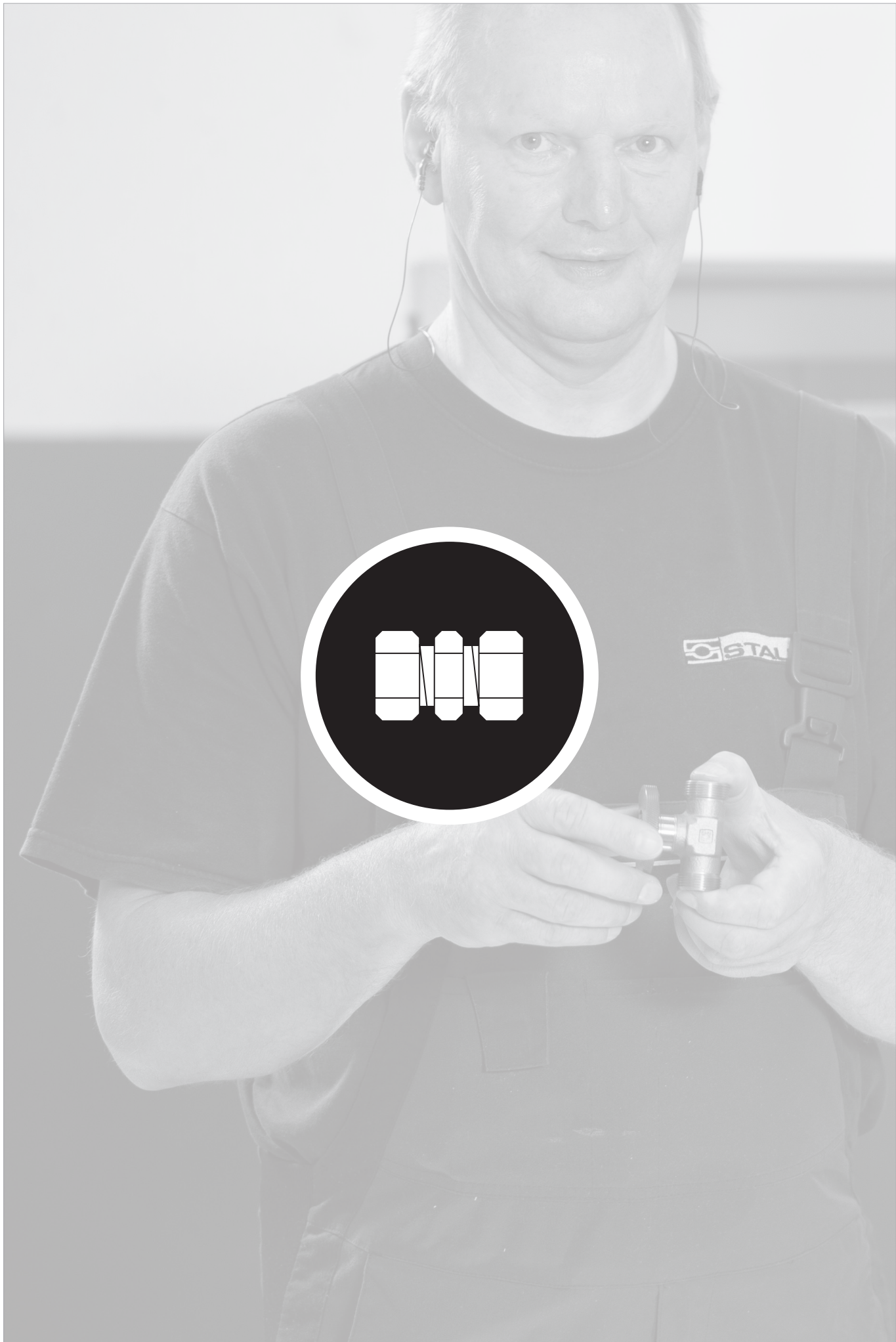
 STAUFF Form Ring
 Type **FI-AR** Page 30

 Union Nut
 Type **FI-M** Page 31

 37° Flared Tube Fitting Set
 Type **FI-AB** Page 35

Spare Parts / Accessories

 O-Ring
 Type **O-RING** Page 207

Banjo Elbow (Medium-Pressure Version)
 FI-RSWND 158-161

**Whitworth Parallel Pipe Thread (BSPP) /
External Metallic Sealing Ring**
 FI-RSWND-...-R-DK 158

**Metric Parallel Thread /
External Metallic Sealing Ring**
 FI-RSWND-...-M-DK 159

**Whitworth Parallel Pipe Thread (BSPP) /
Retaining Ring with Captive Seal**
 FI-RSWND-...-R-WD 160

**Metric Parallel Thread /
Retaining Ring with Captive Seal**
 FI-RSWND-...-M-WD 161

Banjo Elbow (High-Pressure Version)
 FI-RSW 162-165

**Whitworth Parallel Pipe Thread (BSPP) /
External Metallic Sealing Ring**
 FI-RSW-...-R-DK 162

**Metric Parallel Thread /
External Metallic Sealing Ring**
 FI-RSW-...-M-DK 163

**Whitworth Parallel Pipe Thread (BSPP) /
Retaining Ring with Captive Seal**
 FI-RSW-...-R-WD 164

**Metric Parallel Thread /
Retaining Ring with Captive Seal**
 FI-RSW-...-M-WD 165

Banjo Tee (High-Pressure Version)
 FI-RST 166-169

**Whitworth Parallel Pipe Thread (BSPP) /
External Metallic Sealing Ring**
 FI-RST-...-R-DK 166

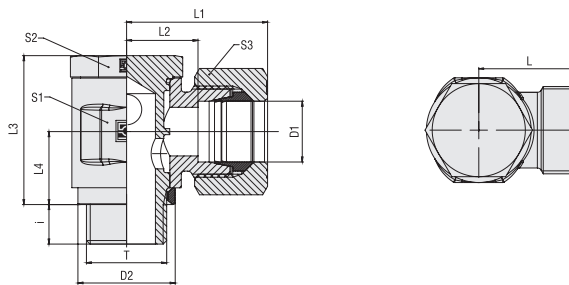
**Metric Parallel Thread /
External Metallic Sealing Ring**
 FI-RST-...-M-DK 167

**Whitworth Parallel Pipe Thread (BSPP) /
Retaining Ring with Captive Seal**
 FI-RST-...-R-WD 168

**Metric Parallel Thread /
Retaining Ring with Captive Seal**
 FI-RST-...-M-WD 169

K


Banjo Elbow (Medium-Pressure Version)
Type FI-RSND-...-R-DK • Series LL / L / S



Whitworth Parallel Pipe Thread (BSPP)

External Metallic Sealing Ring

Ordering Codes

***FI-RSND*-10*L*R*-DK*-W3*-MS**

* Banjo Elbow (Medium-Pressure Version) **FI-RSND**

* Outside Tube Diameter D1 (in mm) **-10**

* Series Extra-Light Series **LL**
 Light Series **L**
 Heavy Series **S**

* Thread Type Whitworth Parallel Pipe Thread (BSPP) **R**

If required, please indicate special sizes, e.g. R1/8!

* Seal Type External Metallic Sealing Ring **-DK**

* Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

* Assembling / Kitting Fitting body only **—**

Fitting body supplied with cutting ring and union nut **-MS**

Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

| Series | Tube OD (mm/in) | PB (°/psi) | Dimensions (mm/in) | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | | |
|--------|--------------------|---------------|-----------------------|--------|------|------|------|-----------------|------|------|------|------|--|-----------------------------|---------------------|--------------------|
| | | | D1 | Thread | T | D2 | L | L1 ¹ | L2 | L3 | L4 | i | | | S1 | S2 |
| LL | 4 | 100 | G 1/8 | 13 | 15,5 | 21 | 11,5 | 21 | 10 | 6 | 14 | 14 | 10 | 2,85 | FI-RSND-04LLR-DK-W3 | |
| | .16 | 1450 | | .51 | .61 | .83 | .45 | .83 | .39 | .24 | .55 | .55 | .39 | 6,27 | | |
| | 6 | 100 | G 1/8 | 13 | 15,5 | 21 | 10 | 21 | 10 | 6 | 14 | 14 | 12 | 2,85 | FI-RSND-06LLR-DK-W3 | |
| | .24 | 1450 | | .51 | .61 | .83 | .39 | .83 | .39 | .24 | .55 | .55 | .47 | 6,27 | | |
| | 8 | 100 | G 1/8 | 13 | 16,5 | 23 | 11 | 21 | 10 | 6 | 14 | 14 | 14 | 2,93 | FI-RSND-08LLR-DK-W3 | |
| | .31 | 1450 | | .51 | .65 | .91 | .43 | .83 | .39 | .24 | .55 | .55 | .55 | 6,45 | | |
| L | 6 | 250 | G 1/8 | 13 | 18,5 | 25 | 11,5 | 21 | 10 | 6 | 14 | 14 | 14 | 3,15 | FI-RSND-06LR-DK-W3 | |
| | .24 | 3625 | | .51 | .73 | .98 | .45 | .83 | .39 | .24 | .55 | .55 | .55 | 6,93 | | |
| | 8 | 250 | G 1/4 | 17,7 | 20 | 26 | 13 | 26 | 12 | 10 | 17 | 19 | 17 | 5,85 | FI-RSND-08LR-DK-W3 | |
| | .31 | 3625 | | .70 | .79 | 1.02 | .51 | 1.02 | .47 | .39 | .67 | .75 | .67 | 12,88 | | |
| | 10 | 250 | G 1/4 | 17,7 | 22 | 30 | 15 | 27 | 13 | 9 | 19 | 19 | 19 | 6,95 | FI-RSND-10LR-DK-W3 | |
| | .39 | 3625 | | .70 | .87 | 1.18 | .59 | 1.06 | .51 | .35 | .75 | .75 | .75 | 15,29 | | |
| | 12 | 160 | G 3/8 | 22 | 23 | 31 | 16 | 32 | 15 | 9 | 22 | 22 | 22 | 6,77 | FI-RSND-12LR-DK-W3 | |
| | .47 | 2320 | | .87 | .91 | 1.22 | .63 | 1.26 | .59 | .35 | .87 | .87 | .87 | 14,90 | | |
| | 15 | 160 | G 1/2 | 26 | 26,5 | 35 | 19,5 | 37,5 | 18 | 11 | 27 | 27 | 27 | 17,36 | FI-RSND-15LR-DK-W3 | |
| | .59 | 2320 | | 1.02 | 1.04 | 1.38 | .77 | 1.48 | .71 | .43 | 1.06 | 1.06 | 1.06 | 38,18 | | |
| | 18 | 160 | G 1/2 | 26 | 27 | 36 | 19,5 | 44,5 | 21,5 | 11 | 30 | 27 | 32 | 21,47 | FI-RSND-18LR-DK-W3 | |
| | .71 | 2320 | | 1.02 | 1.06 | 1.42 | .77 | 1.75 | .85 | .43 | 1.18 | 1.06 | 1.26 | 47,23 | | |
| | 22 | 160 | G 3/4 | 32 | 32 | 41 | 24,5 | 49 | 24 | 13 | 36 | 32 | 36 | 30,63 | FI-RSND-22LR-DK-W3 | |
| | .87 | 2320 | | 1.26 | 1.26 | 1.61 | .96 | 1.93 | .94 | .51 | 1.42 | 1.26 | 1.42 | 67,38 | | |
| | S | 6 | 250 | G 1/4 | 17,7 | 21,5 | 29 | 14,5 | 26 | 12 | 10 | 17 | 19 | 17 | 6,23 | FI-RSND-06SR-DK-W3 |
| | | .24 | 3625 | | .70 | .85 | 1.14 | .57 | 1.02 | .47 | .39 | .67 | .75 | .67 | 13,70 | |
| | | 8 | 250 | G 1/4 | 17,7 | 23 | 29 | 16 | 27 | 13 | 9 | 19 | 19 | 19 | 7,47 | FI-RSND-08SR-DK-W3 |
| | | .31 | 3625 | | .70 | .91 | 1.14 | .63 | 1.06 | .51 | .35 | .75 | .75 | .75 | 16,43 | |
| 10 | | 160 | G 3/8 | 22 | 23,5 | 32 | 16 | 32 | 15 | 9 | 22 | 22 | 22 | 10,92 | FI-RSND-10SR-DK-W3 | |
| .39 | | 2320 | | .87 | .93 | 1.26 | .63 | 1.26 | .59 | .35 | .87 | .87 | .87 | 24,03 | | |
| 12 | | 160 | G 3/8 | 22 | 26 | 34 | 18,5 | 37 | 18 | 9 | 24 | 24 | 24 | 14,87 | FI-RSND-12SR-DK-W3 | |
| .47 | | 2320 | | .87 | 1.02 | 1.34 | .73 | 1.46 | .71 | .35 | .94 | .94 | .94 | 32,71 | | |
| 14 | | 160 | G 1/2 | 26 | 28,5 | 39 | 20,5 | 37,5 | 18 | 11 | 27 | 27 | 27 | 18,58 | FI-RSND-14SR-DK-W3 | |
| .55 | | 2320 | | 1.02 | 1.12 | 1.54 | .81 | 1.48 | .71 | .43 | 1.06 | 1.06 | 1.06 | 40,88 | | |
| 16 | | 160 | G 1/2 | 26 | 30 | 40 | 21,5 | 44,5 | 21,5 | 11 | 30 | 27 | 30 | 22,48 | FI-RSND-16SR-DK-W3 | |
| .63 | | 2320 | | 1.02 | 1.18 | 1.57 | .85 | 1.75 | .85 | .43 | 1.18 | 1.06 | 1.18 | 49,45 | | |
| 20 | 160 | G 3/4 | 32 | 34 | 45 | 23,5 | 49 | 24 | 13 | 36 | 32 | 36 | 32,20 | FI-RSND-20SR-DK-W3 | | |
| .79 | 2320 | | 1.26 | 1.34 | 1.77 | .93 | 1.93 | .94 | .51 | 1.42 | 1.26 | 1.42 | 70,84 | | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

K

Connecting Parts

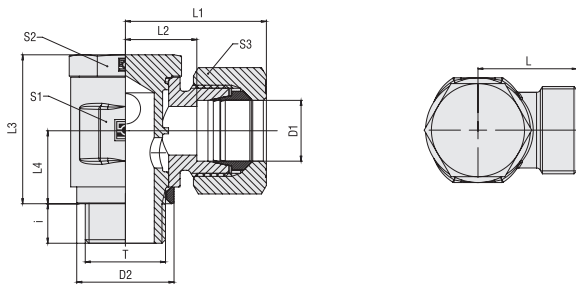
-  Cutting Ring Type **FI-DS** Page 26
-  Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
-  Support Sleeve Type **FI-VH** Page 28
-  STAUFF Form Ring Type **FI-AR** Page 30
-  Union Nut Type **FI-M** Page 31
-  37° Flared Tube Fitting Set Type **FI-AB** Page 35

Spare Parts / Accessories

-  External Metallic Sealing Ring Type **FI-DKR** Page 212



Banjo Elbow (Medium-Pressure Version) Type FI-RSWND-...-M-DK ■ Series LL / L / S


External Metallic Sealing Ring
Metric Parallel Thread

| Series | Tube OD | | Dimensions Thread T | Dimensions (mm/in) | | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|---------|-----------------|------------------------|--------------------|------|-----------------|------|------|------|------|------|------|-------|---------------------|--|-----------------------------|
| | (mm/in) | PB (bar/psi) | | D2 | L | L1 ¹ | L2 | L3 | L4 | i | S1 | S2 | S3 | | | |
| LL | 4 | 100 | M 8 x 1 | 10,8 | 15,5 | 21 | 11,5 | 17 | 8 | 6 | 14 | 12 | 10 | 2,66 | FI-RSWND-04LLM-DK-W3 | |
| | .16 | 1450 | | .43 | .61 | .83 | .45 | .67 | .31 | .24 | .55 | .47 | .39 | 5,85 | | |
| | 6 | 100 | M 10 x 1 | 13 | 15,5 | 21 | 10 | 21 | 10 | 6 | 14 | 14 | 12 | 2,86 | FI-RSWND-06LLM-DK-W3 | |
| | .24 | 1450 | | .51 | .61 | .83 | .39 | .83 | .39 | .24 | .55 | .55 | .47 | 6,30 | | |
| | 8 | 100 | | 13 | 16,5 | 23 | 11 | 21 | 10 | 6 | 14 | 14 | 14 | 2,94 | | |
| | .31 | 1450 | | .51 | .65 | .91 | .43 | .83 | .39 | .24 | .55 | .55 | .55 | 6,47 | FI-RSWND-08LLM-DK-W3 | |
| L | 6 | 250 | M 10 x 1 | 13 | 18,5 | 26 | 11,5 | 21 | 10 | 6 | 14 | 14 | 14 | 3,16 | FI-RSWND-06LM-DK-W3 | |
| | .24 | 3625 | | .51 | .73 | 1.02 | .45 | .83 | .39 | .24 | .55 | .55 | .55 | 6,95 | | |
| | 8 | 250 | M 12 x 1,5 | 17,8 | 20 | 28 | 13 | 25 | 12 | 9 | 17 | 17 | 17 | 5,02 | FI-RSWND-08LM-DK-W3 | |
| | .31 | 3625 | | .70 | .79 | 1.10 | .51 | .98 | .47 | .35 | .67 | .67 | .67 | 11,04 | | |
| | 10 | 250 | M 14 x 1,5 | 17,8 | 22 | 30 | 15 | 27 | 13 | 9 | 19 | 19 | 19 | 7,02 | FI-RSWND-10LM-DK-W3 | |
| | .39 | 3625 | | .70 | .87 | 1.18 | .59 | 1.06 | .51 | .35 | .75 | .75 | .75 | 15,44 | | |
| | 12 | 160 | M 16 x 1,5 | 21,5 | 23 | 31 | 16 | 32 | 15 | 9 | 22 | 22 | 22 | 6,63 | FI-RSWND-12LM-DK-W3 | |
| | .47 | 2320 | | .85 | .91 | 1.22 | .63 | 1.26 | .59 | .35 | .87 | .87 | .87 | 14,58 | | |
| | 15 | 160 | M 18 x 1,5 | 23 | 25 | 33 | 18 | 37 | 18 | 9 | 24 | 24 | 27 | 13,44 | FI-RSWND-15LM-DK-W3 | |
| | .59 | 2320 | | .91 | .98 | 1.30 | .71 | 1.46 | .71 | .35 | .94 | .94 | 1.06 | 29,56 | | |
| | 18 | 160 | M 22 x 1,5 | 27 | 27 | 36 | 19,5 | 44,5 | 21,5 | 11 | 30 | 27 | 32 | 22,82 | FI-RSWND-18LM-DK-W3 | |
| | .71 | 2320 | | 1.06 | 1.06 | 1.42 | .77 | 1.75 | .85 | .43 | 1.18 | 1.06 | 1.26 | 50,20 | | |
| | 22 | 160 | M 26 x 1,5 | 31 | 32 | 41 | 24,5 | 49 | 24 | 13 | 36 | 32 | 36 | 30,46 | FI-RSWND-22LM-DK-W3 | |
| | .87 | 2320 | | 1.22 | 1.26 | 1.61 | .96 | 1.93 | .94 | .51 | 1.42 | 1.26 | 1.42 | 67,01 | | |
| | S | 6 | 250 | M 12 x 1,5 | 17,8 | 21,5 | 29 | 14,5 | 25 | 12 | 9 | 17 | 17 | 17 | 5,39 | FI-RSWND-06SM-DK-W3 |
| | | .24 | 3625 | | .70 | .85 | 1.14 | .57 | .98 | .47 | .35 | .67 | .67 | .67 | 11,86 | |
| | | 8 | 250 | M 14 x 1,5 | 17,8 | 23 | 31 | 16 | 27 | 13 | 9 | 19 | 19 | 19 | 7,54 | FI-RSWND-08SM-DK-W3 |
| | | .31 | 3625 | | .70 | .91 | 1.22 | .63 | 1.06 | .51 | .35 | .75 | .75 | .75 | 16,58 | |
| | | 10 | 160 | M 16 x 1,5 | 21,5 | 23,5 | 32,5 | 16 | 32 | 15 | 9 | 22 | 22 | 22 | 10,78 | FI-RSWND-10SM-DK-W3 |
| .39 | | 2320 | .85 | | .93 | 1.28 | .63 | 1.26 | .59 | .35 | .87 | .87 | .87 | 23,71 | | |
| 12 | | 160 | M 18 x 1,5 | 23 | 25 | 34 | 17,5 | 37 | 18 | 9 | 24 | 24 | 24 | 13,70 | FI-RSWND-12SM-DK-W3 | |
| .47 | | 2320 | | .91 | .98 | 1.34 | .69 | 1.46 | .71 | .35 | .94 | .94 | .94 | 30,14 | | |
| 14 | | 160 | M 20 x 1,5 | 26 | 28,5 | 38,5 | 20,5 | 37 | 18 | 11 | 27 | 27 | 27 | 17,94 | FI-RSWND-14SM-DK-W3 | |
| .55 | | 2320 | | 1.02 | 1.12 | 1.52 | .81 | 1.46 | .71 | .43 | 1.06 | 1.06 | 1.06 | 39,47 | | |
| 16 | | 160 | M 22 x 1,5 | 27 | 30 | 40 | 21,5 | 44,5 | 21,5 | 11 | 30 | 27 | 30 | 23,83 | FI-RSWND-16SM-DK-W3 | |
| .63 | 2320 | 1.06 | | 1.18 | 1.57 | .85 | 1.75 | .85 | .43 | 1.18 | 1.06 | 1.18 | 52,42 | | | |
| 20 | 160 | M 27 x 2 | 32 | 34 | 45 | 23,5 | 49 | 24 | 13 | 36 | 32 | 36 | 33,34 | FI-RSWND-20SM-DK-W3 | | |
| .79 | 2320 | | 1.26 | 1.34 | 1.77 | .93 | 1.93 | .94 | .51 | 1.42 | 1.26 | 1.42 | 73,35 | | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Port acc. to DIN 3852-1 (Form X) / ISO 9974-1

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes
***FI-RSWND*-10*L*R*-DK*-W3*-MS**

| | |
|---|--|
| * Banjo Elbow (Medium-Pressure Version) | FI-RSWND |
| * Outside Tube Diameter D1 (in mm) | -10 |
| * Series | Extra-Light Series LL Light Series L Heavy Series S |
| * Thread Type | Metric Parallel Thread M |
| If required, please indicate special sizes, e.g. M12x1.5! | |
| * Seal Type | External Metallic Sealing Ring -DK |
| * Material Code | Steel, zinc/nickel-plated -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | |
| * Assembling / Kitting | Fitting body only — |
| | Fitting body supplied with cutting ring and union nut -MS |
| | Fitting body supplied with soft-sealing cutting ring and union nut -MSV |

Connecting Parts

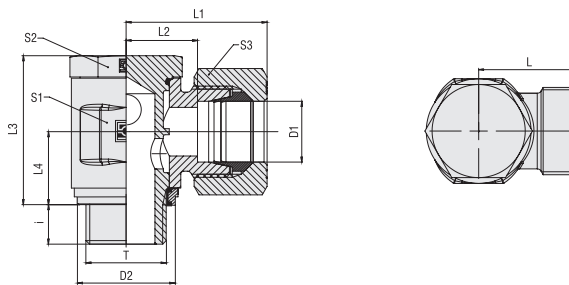
| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

Spare Parts / Accessories

| | | |
|--|--|----------|
| | External Metallic Sealing Ring Type FI-DKR | Page 212 |
|--|--|----------|



Banjo Elbow (Medium-Pressure Version)
Type FI-RSND-...-R-WD ■ Series L / S



Whitworth Parallel Pipe Thread (BSPP)

Retaining Ring with Captive Seal

Ordering Codes

***FI-RSND*-10*L*R*-WD*-B*-W3*-MS**

* Banjo Elbow (Medium-Pressure Version) **FI-RSND**

* Outside Tube Diameter D1 (in mm) **-10**

* Series Extra-Light Series **LL**
 Light Series **L**
 Heavy Series **S**

* Thread Type Whitworth Parallel Pipe Thread (BSPP) **R**

If required, please indicate special sizes, e.g. R1/8!

* Seal Type Retaining Ring with Captive Seal **-WD**

* Seal Material NBR (Buna-N®) **-B**
 FKM (Viton®) **-V**
 EPDM **-E**

* Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

* Assembling / Kitting Fitting body only **—**
 Fitting body supplied with cutting ring and union nut **-MS**
 Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

| Series | Tube OD (mm/in) | PB (mm/psi) | Dimensions (mm/in) | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | |
|--------|--------------------|----------------|-----------------------|--------|------|------|------|-----------------|------|------|------|------|--|-----------------------------|----------------------|
| | | | D1 | Thread | T | D2 | L | L1 ¹ | L2 | L3 | L4 | i | | | S1 |
| L | 6 | 250 | G 1/8 | 15 | 18,5 | 25 | 11,5 | 21 | 10 | 6 | 14 | 14 | 14 | 3,07 | FI-RSND-06LR-WD-B-W3 |
| | .24 | 3625 | | .59 | .73 | .98 | .45 | .83 | .39 | .24 | .55 | .55 | .55 | 6,75 | |
| | 8 | 250 | G 1/4 | 18,8 | 20 | 26 | 13 | 26 | 12 | 10 | 17 | 19 | 17 | 5,97 | FI-RSND-08LR-WD-B-W3 |
| | .31 | 3625 | | .74 | .79 | 1.02 | .51 | 1.02 | .47 | .39 | .67 | .75 | .67 | 13,14 | |
| | 10 | 250 | G 1/4 | 18,8 | 22 | 30 | 15 | 27 | 13 | 9 | 19 | 19 | 19 | 7,60 | FI-RSND-10LR-WD-B-W3 |
| | .39 | 3625 | | .74 | .87 | 1.18 | .59 | 1.06 | .51 | .35 | .75 | .75 | .75 | 16,71 | |
| | 12 | 160 | G 3/8 | 22 | 23 | 31 | 16 | 32 | 15 | 9 | 22 | 22 | 22 | 10,45 | FI-RSND-12LR-WD-B-W3 |
| | .47 | 2320 | | .87 | .91 | 1.22 | .63 | 1.26 | .59 | .35 | .87 | .87 | .87 | 22,99 | |
| | 15 | 160 | G 1/2 | 28,8 | 26,5 | 35 | 19,5 | 37,5 | 18 | 11 | 27 | 27 | 27 | 18,00 | FI-RSND-15LR-WD-B-W3 |
| | .59 | 2320 | | 1.13 | 1.04 | 1.38 | .77 | 1.48 | .71 | .43 | 1.06 | 1.06 | 1.06 | 39,59 | |
| | 18 | 160 | G 1/2 | 28,8 | 27 | 36 | 19,5 | 44,5 | 21,5 | 11 | 30 | 27 | 32 | 22,31 | FI-RSND-18LR-WD-B-W3 |
| | .71 | 2320 | | 1.13 | 1.06 | 1.42 | .77 | 1.75 | .85 | .43 | 1.18 | 1.06 | 1.26 | 49,08 | |
| 22 | 160 | G 3/4 | 33 | 32 | 41 | 24,5 | 49 | 24 | 13 | 36 | 32 | 36 | 31,05 | FI-RSND-22LR-WD-B-W3 | |
| .87 | 2320 | | 1.30 | 1.26 | 1.61 | .96 | 1.93 | .94 | .51 | 1.42 | 1.26 | 1.42 | 68,30 | | |
| S | 6 | 250 | G 1/4 | 18,8 | 21,5 | 29 | 14,5 | 26 | 12 | 10 | 17 | 19 | 17 | 6,34 | FI-RSND-06SR-WD-B-W3 |
| | .24 | 3625 | | .74 | .85 | 1.14 | .57 | 1.02 | .47 | .39 | .67 | .75 | .67 | 13,96 | |
| | 8 | 250 | G 1/4 | 18,8 | 23 | 29 | 16 | 27 | 13 | 9 | 19 | 19 | 19 | 7,60 | FI-RSND-08SR-WD-B-W3 |
| | .31 | 3625 | | .74 | .91 | 1.14 | .63 | 1.06 | .51 | .35 | .75 | .75 | .75 | 16,71 | |
| | 10 | 160 | G 3/8 | 22 | 23,5 | 32 | 16 | 32 | 15 | 9 | 22 | 22 | 22 | 10,89 | FI-RSND-10SR-WD-B-W3 |
| | .39 | 2320 | | .87 | .93 | 1.26 | .63 | 1.26 | .59 | .35 | .87 | .87 | .87 | 23,96 | |
| | 12 | 160 | G 3/8 | 22 | 26 | 34 | 18,5 | 37 | 18 | 9 | 24 | 24 | 24 | 14,51 | FI-RSND-12SR-WD-B-W3 |
| | .47 | 2320 | | .87 | 1.02 | 1.34 | .73 | 1.46 | .71 | .35 | .94 | .94 | .94 | 31,92 | |
| | 14 | 160 | G 1/2 | 28,8 | 28,5 | 39 | 20,5 | 37,5 | 18 | 11 | 27 | 27 | 27 | 18,77 | FI-RSND-14SR-WD-B-W3 |
| | .55 | 2320 | | 1.13 | 1.12 | 1.54 | .81 | 1.48 | .71 | .43 | 1.06 | 1.06 | 1.06 | 41,30 | |
| | 16 | 160 | G 1/2 | 28,8 | 30 | 40 | 21,5 | 44,5 | 21,5 | 11 | 30 | 27 | 30 | 23,32 | FI-RSND-16SR-WD-B-W3 |
| | .63 | 2320 | | 1.13 | 1.18 | 1.57 | .85 | 1.75 | .85 | .43 | 1.18 | 1.06 | 1.18 | 51,29 | |
| 20 | 160 | G 3/4 | 33 | 34 | 45 | 23,5 | 49 | 24 | 13 | 36 | 32 | 36 | 32,63 | FI-RSND-20SR-WD-B-W3 | |
| .79 | 2320 | | 1.30 | 1.34 | 1.77 | .93 | 1.93 | .94 | .51 | 1.42 | 1.26 | 1.42 | 71,79 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.



Please contact STAUFF prior to the assembly for further information.

Standard seal material is NBR (Buna-N®).

Connecting Parts

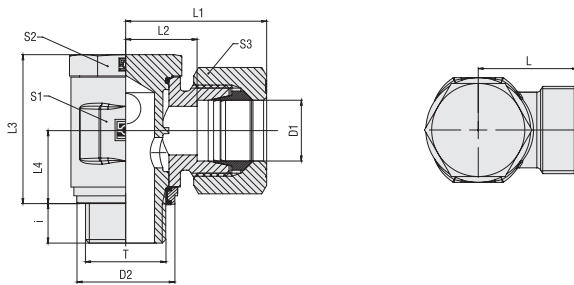
-  Cutting Ring Type **FI-DS** Page 26
-  Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
-  Support Sleeve Type **FI-VH** Page 28
-  STAUFF Form Ring Type **FI-AR** Page 30
-  Union Nut Type **FI-M** Page 31
-  37° Flared Tube Fitting Set Type **FI-AB** Page 35

Spare Parts / Accessories

-  Retaining Ring with Captive Seal Type **FI-DIR** Page 213
-  O-Ring Type **O-RING** Page 207

K



**Banjo Elbow (Medium-Pressure Version)
Type FI-RSWND-...-M-WD ■ Series L / S**

Retaining Ring with Captive Seal
Metric Parallel Thread

| Series | Tube OD (mm/in) | PB (bar/psi) | Dimensions (mm/in) | | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|------|------|----------------|------|------|-----|------|------|------|--|-----------------------------|
| | | | Thread | T | D2 | L | L ¹ | L2 | L3 | L4 | i | S1 | S2 | | |
| L | 6 | 250 | M 10 x 1 | 15 | 18,5 | 26 | 11,5 | 21 | 10 | 6 | 14 | 14 | 14 | 3,10 | FI-RSWND-06LM-WD-B-W3 |
| | .24 | 3625 | | .59 | .73 | 1.02 | .45 | .83 | .39 | .24 | .55 | .55 | .55 | 6.83 | |
| | 8 | 250 | M 12 x 1,5 | 17,8 | 20 | 28 | 13 | 25 | 12 | 9 | 17 | 17 | 17 | 5,20 | FI-RSWND-08LM-WD-B-W3 |
| | .31 | 3625 | | .70 | .79 | 1.10 | .51 | .98 | .47 | .35 | .67 | .67 | .67 | 11.44 | |
| | 10 | 250 | M 14 x 1,5 | 20 | 22 | 30 | 15 | 27 | 13 | 9 | 19 | 19 | 19 | 7,31 | FI-RSWND-10LM-WD-B-W3 |
| | .39 | 3625 | | .79 | .87 | 1.18 | .59 | 1.06 | .51 | .35 | .75 | .75 | .75 | 16.07 | |
| | 12 | 160 | M 16 x 1,5 | 22 | 23 | 31 | 16 | 32 | 15 | 9 | 22 | 22 | 22 | 10,27 | FI-RSWND-12LM-WD-B-W3 |
| | .47 | 2320 | | .87 | .91 | 1.22 | .63 | 1.26 | .59 | .35 | .87 | .87 | .87 | 22.59 | |
| | 15 | 160 | M 18 x 1,5 | 25,8 | 25 | 33 | 18 | 37 | 18 | 9 | 24 | 24 | 27 | 13,86 | FI-RSWND-15LM-WD-B-W3 |
| | .59 | 2320 | | 1.02 | .98 | 1.30 | .71 | 1.46 | .71 | .35 | .94 | .94 | 1.06 | 30.49 | |
| S | 18 | 160 | M 22 x 1,5 | 28,8 | 27 | 36 | 19,5 | 44,5 | 21,5 | 11 | 30 | 27 | 32 | 22,65 | FI-RSWND-18LM-WD-B-W3 |
| | .71 | 2320 | | 1.13 | 1.06 | 1.42 | .77 | 1.75 | .85 | .43 | 1.18 | 1.06 | 1.26 | 49.84 | |
| | 22 | 160 | M 26 x 1,5 | 32 | 32 | 41 | 24,5 | 49 | 24 | 13 | 36 | 32 | 36 | 30,84 | FI-RSWND-22LM-WD-B-W3 |
| | .87 | 2320 | | 1.26 | 1.26 | 1.61 | .96 | 1.93 | .94 | .51 | 1.42 | 1.26 | 1.42 | 67.85 | |
| | 6 | 250 | M 12 x 1,5 | 17,8 | 21,5 | 29 | 14,5 | 25 | 12 | 9 | 17 | 17 | 17 | 5,57 | FI-RSWND-06SM-WD-B-W3 |
| | .24 | 3625 | | .70 | .85 | 1.14 | .57 | .98 | .47 | .35 | .67 | .67 | .67 | 12.25 | |
| | 8 | 250 | M 14 x 1,5 | 20 | 23 | 31 | 16 | 27 | 13 | 9 | 19 | 19 | 19 | 7,82 | FI-RSWND-08SM-WD-B-W3 |
| | .31 | 3625 | | .79 | .91 | 1.22 | .63 | 1.06 | .51 | .35 | .75 | .75 | .75 | 17.21 | |
| | 10 | 160 | M 16 x 1,5 | 22 | 23,5 | 32,5 | 16 | 32 | 15 | 9 | 22 | 22 | 22 | 10,71 | FI-RSWND-10SM-WD-B-W3 |
| | .39 | 2320 | | .87 | .93 | 1.28 | .63 | 1.26 | .59 | .35 | .87 | .87 | .87 | 23.56 | |
| S | 16 | 160 | M 18 x 1,5 | 25,8 | 25 | 34 | 17,5 | 37 | 18 | 9 | 24 | 24 | 24 | 14,12 | FI-RSWND-12SM-WD-B-W3 |
| | .47 | 2320 | | 1.02 | .98 | 1.34 | .69 | 1.46 | .71 | .35 | .94 | .94 | .94 | 31.07 | |
| | 20 | 160 | M 22 x 1,5 | 28,8 | 30 | 40 | 21,5 | 44,5 | 21,5 | 11 | 30 | 27 | 30 | 23,66 | FI-RSWND-16SM-WD-B-W3 |
| | .63 | 2320 | | 1.13 | 1.18 | 1.57 | .85 | 1.75 | .85 | .43 | 1.18 | 1.06 | 1.18 | 52.05 | |
| | 20 | 160 | M 27 x 2 | 33 | 34 | 45 | 23,5 | 49 | 24 | 13 | 36 | 32 | 36 | 33,01 | FI-RSWND-20SM-WD-B-W3 |
| | .79 | 2320 | | 1.30 | 1.34 | 1.77 | .93 | 1.93 | .94 | .51 | 1.42 | 1.26 | 1.42 | 72.62 | |

Ordering Codes
***FI-RSWND*-10*L*R*-WD*-B*-W3*-MS**
*** Banjo Elbow (Medium-Pressure Version) FI-RSWND**
*** Outside Tube Diameter D1 (in mm) -10**
*** Series** Extra-Light Series **LL**
 Light Series **L**
 Heavy Series **S**
*** Thread Type** Metric Parallel Thread **M**

If required, please indicate special sizes, e.g. M12x1.5!

*** Seal Type** Retaining Ring with Captive Seal **-WD**
*** Seal Material** NBR (Buna-N®) **-B**
 FKM (Viton®) **-V**
 EPDM **-E**
*** Material Code** Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

*** Assembling / Kitting** Fitting body only **—**
 Fitting body supplied with cutting ring and union nut **-MS**
 Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**
¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).

Port acc. to DIN 3852-1 (Form X) / ISO 9974-1

 Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
 Please contact STAUFF prior to the assembly for further information.

Connecting Parts

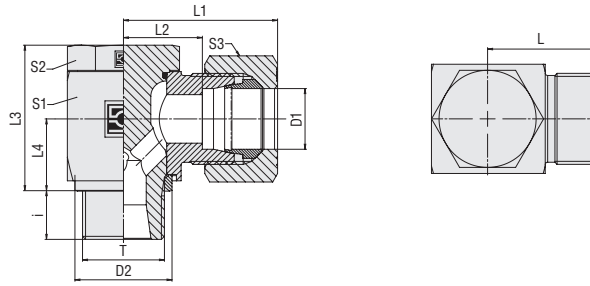
| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

Spare Parts / Accessories

| | | |
|--|--|----------|
| | Retaining Ring with Captive Seal Type FI-DIR | Page 213 |
| | O-Ring Type O-RING | Page 207 |



Banjo Elbow (High-Pressure Version)
Type FI-RSW-...-R-DK ■ Series L / S



Whitworth Parallel Pipe Thread (BSPP)

External Metallic Sealing Ring

Ordering Codes

***FI-RSW*-10*L*R*-DK*-B*-W3*-MS**

* Banjo Elbow (High-Pressure Version) **FI-RSW**

* Outside Tube Diameter D1 (in mm) **-10**

* Series Light Series **L**
 Heavy Series **S**

* Thread Type Whitworth Parallel Pipe Thread (BSPP) **R**

If required, please indicate special sizes, e.g. R1/8!

* Seal Type External Metallic Sealing Ring **-DK**

* Seal Material NBR (Buna-N®) **-B**
 FKM (Viton®) **-V**
 EPDM **-E**

* Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

* Assembling / Kitting Fitting body only **—**

Fitting body supplied with cutting ring and union nut **-MS**

Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

K

| Series | Tube OD (mm/in) | PB (mm/in) | Dimensions | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | |
|--------|--------------------|---------------|------------|------|------|------|-----------------|------|------|------|------|------|--|-----------------------------|---------------------|
| | | | Thread | T | D2 | L | L1 ¹ | L2 | L3 | L4 | i | S1 | | | S2 |
| L | 6 | 500 | G 1/8 | 13 | 20 | 28 | 13 | 21 | 10,5 | 8 | 14 | 14 | 14 | 3,61 | FI-RSW-06LR-DK-B-W3 |
| | .24 | 7250 | | .51 | .79 | 1.10 | .51 | .83 | .41 | .31 | .55 | .55 | .55 | 7.94 | |
| | 8 | 500 | G 1/4 | 17,8 | 21 | 29 | 14 | 27 | 13,5 | 10 | 19 | 19 | 17 | 7,93 | FI-RSW-08LR-DK-B-W3 |
| | .31 | 7250 | | .70 | .83 | 1.14 | .55 | 1.06 | .53 | .39 | .75 | .75 | .67 | 17.44 | |
| | 10 | 500 | G 1/4 | 17,8 | 22 | 30 | 15 | 27 | 13,5 | 10 | 19 | 19 | 19 | 8,15 | FI-RSW-10LR-DK-B-W3 |
| | .39 | 7250 | | .70 | .87 | 1.18 | .59 | 1.06 | .53 | .39 | .75 | .75 | .75 | 17.93 | |
| | 12 | 400 | G 3/8 | 22 | 24,5 | 32,5 | 17,5 | 32,5 | 16 | 12 | 24 | 22 | 22 | 13,75 | FI-RSW-12LR-DK-B-W3 |
| | .47 | 5800 | | .87 | .96 | 1.28 | .69 | 1.28 | .63 | .47 | .94 | .87 | .87 | 30.24 | |
| | 15 | 400 | G 1/2 | 26 | 27 | 35 | 21 | 43 | 19,5 | 14 | 30 | 27 | 27 | 25,80 | FI-RSW-15LR-DK-B-W3 |
| | .59 | 5800 | | 1.02 | 1.06 | 1.38 | .83 | 1.69 | .77 | .55 | 1.18 | 1.06 | 1.06 | 56.76 | |
| | 18 | 400 | G 1/2 | 26 | 28 | 37 | 20,5 | 43 | 21,5 | 12 | 30 | 27 | 32 | 26,56 | FI-RSW-18LR-DK-B-W3 |
| | .71 | 5800 | | 1.02 | 1.10 | 1.46 | .81 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.26 | 58.44 | |
| | 22 | 250 | G 3/4 | 32 | 34,5 | 43,5 | 27 | 48 | 24 | 16 | 36 | 32 | 36 | 43,25 | FI-RSW-22LR-DK-B-W3 |
| | .87 | 3625 | | 1.26 | 1.36 | 1.71 | 1.06 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | 95.14 | |
| | 28 | 250 | G 1 | 39 | 39 | 48 | 31,5 | 59 | 30,5 | 18 | 46 | 41 | 41 | 83,60 | FI-RSW-28LR-DK-B-W3 |
| | 1.10 | 3625 | | 1.54 | 1.54 | 1.89 | 1.24 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.61 | 183.92 | |
| | 35 | 250 | G 1 1/4 | 49 | 46 | 57 | 35,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 140,80 | FI-RSW-35LR-DK-B-W3 |
| | 1.38 | 3625 | | 1.93 | 1.81 | 2.24 | 1.40 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 309.76 | |
| 42 | 250 | G 1 1/2 | 55 | 51 | 63 | 40 | 80 | 40,5 | 22 | 65 | 55 | 60 | 211,80 | FI-RSW-42LR-DK-B-W3 | |
| 1.65 | 3625 | | 2.17 | 2.01 | 2.48 | 1.57 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 465.96 | | |
| S | 6 | 500 | G 1/4 | 17,8 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 17 | 8,36 | FI-RSW-06SR-DK-B-W3 |
| | .24 | 7250 | | .70 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .67 | 18.39 | |
| | 8 | 500 | G 1/4 | 17,8 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 19 | 8,62 | FI-RSW-08SR-DK-B-W3 |
| | .31 | 7250 | | .70 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .75 | 18.96 | |
| | 10 | 500 | G 3/8 | 22 | 25,5 | 34,5 | 18 | 32,5 | 16 | 10 | 24 | 22 | 22 | 14,57 | FI-RSW-10SR-DK-B-W3 |
| | .39 | 7250 | | .87 | 1.00 | 1.36 | .71 | 1.28 | .63 | .39 | .94 | .87 | .87 | 32.06 | |
| | 12 | 400 | G 3/8 | 22 | 27 | 36 | 18 | 32,5 | 16 | 10 | 24 | 22 | 24 | 14,59 | FI-RSW-12SR-DK-B-W3 |
| | .47 | 5800 | | .87 | 1.06 | 1.42 | .71 | 1.28 | .63 | .39 | .94 | .87 | .94 | 32.09 | |
| | 14 | 400 | G 1/2 | 26 | 30 | 40 | 22 | 41 | 19,5 | 14 | 30 | 27 | 27 | 26,55 | FI-RSW-14SR-DK-B-W3 |
| | .55 | 5800 | | 1.02 | 1.18 | 1.57 | .87 | 1.61 | .77 | .55 | 1.18 | 1.06 | 1.06 | 58.41 | |
| | 16 | 400 | G 1/2 | 26 | 30 | 40 | 21,5 | 43 | 21,5 | 12 | 30 | 27 | 30 | 26,86 | FI-RSW-16SR-DK-B-W3 |
| | .63 | 5800 | | 1.02 | 1.18 | 1.57 | .85 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.18 | 59.10 | |
| | 20 | 315 | G 3/4 | 32 | 36,5 | 47,5 | 26 | 48 | 24 | 16 | 36 | 32 | 36 | 44,88 | FI-RSW-20SR-DK-B-W3 |
| | .79 | 4568 | | 1.26 | 1.44 | 1.87 | 1.02 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | 98.74 | |
| | 25 | 250 | G 1 | 39 | 43 | 55 | 31 | 59 | 30,5 | 18 | 46 | 41 | 46 | 87,00 | FI-RSW-25SR-DK-B-W3 |
| | .98 | 3625 | | 1.54 | 1.69 | 2.17 | 1.22 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.81 | 191.40 | |
| | 30 | 250 | G 1 1/4 | 49 | 50 | 63 | 36,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 145,00 | FI-RSW-30SR-DK-B-W3 |
| | 1.18 | 3625 | | 1.93 | 1.97 | 2.48 | 1.44 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 319.00 | |
| 38 | 250 | G 1 1/2 | 55 | 57 | 72 | 41 | 80 | 40,5 | 22 | 65 | 55 | 60 | 223,40 | FI-RSW-38SR-DK-B-W3 | |
| 1.50 | 3625 | | 2.17 | 2.24 | 2.83 | 1.61 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 491.48 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).



For use with aggressive media and/or at elevated temperatures, please remove the O-ring from the groove located on the banjo bolt prior to installation.

Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Connecting Parts



Cutting Ring
 Type **FI-DS** Page 26



Soft-Sealing Cutting Ring
 Type **FI-WDDS** Page 27



Support Sleeve
 Type **FI-VH** Page 28



STAUFF Form Ring
 Type **FI-AR** Page 30



Union Nut
 Type **FI-M** Page 31



37° Flared Tube Fitting Set
 Type **FI-AB** Page 35

Spare Parts / Accessories

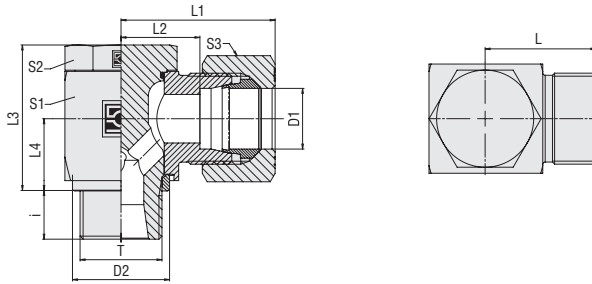


External Metallic Sealing Ring
 Type **FI-DKR** Page 212



O-Ring
 Type **O-RING** Page 207



**Banjo Elbow (High-Pressure Version)
Type FI-RSW-...-M-DK ■ Series L / S**

External Metallic Sealing Ring
Metric Parallel Thread

| Series | Tube OD (mm/in) | PB (bar/psi) | Dimensions (mm/in) | Dimensions | | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------------|------|------|------|-----------------|------|------|------|------|--------|---------------------|--|-----------------------------|
| | | | | Thread | T | D2 | L | L1 ¹ | L2 | L3 | L4 | i | S1 | S2 | | |
| L | 6 | 500 | M10x1 | 13 | 20 | 28 | 13 | 21 | 10 | 8 | 14 | 14 | 14 | 3,66 | FI-RSW-06LM-DK-B-W3 | |
| | .24 | 7250 | | .51 | .79 | 1.10 | .51 | .83 | .39 | .31 | .55 | .55 | .55 | 8.05 | | |
| | 8 | 500 | M12x1,5 | 17,8 | 21 | 29 | 14 | 27 | 13,5 | 10 | 19 | 19 | 17 | 7,70 | FI-RSW-08LM-DK-B-W3 | |
| | .31 | 7250 | | .70 | .83 | 1.14 | .55 | 1.06 | .53 | .39 | .75 | .75 | .67 | 16.94 | | |
| | 10 | 500 | M14x1,5 | 17,8 | 22 | 30 | 15 | 27 | 13,5 | 10 | 19 | 19 | 19 | 8,21 | FI-RSW-10LM-DK-B-W3 | |
| | .39 | 7250 | | .70 | .87 | 1.18 | .59 | 1.06 | .53 | .39 | .75 | .75 | .75 | 18.06 | | |
| | 12 | 400 | M16x1,5 | 21 | 24,5 | 32,5 | 17,5 | 32,5 | 16 | 10 | 24 | 22 | 22 | 13,72 | FI-RSW-12LM-DK-B-W3 | |
| | .47 | 5800 | | .83 | .96 | 1.28 | .69 | 1.28 | .63 | .39 | .94 | .87 | .87 | 30.19 | | |
| | 15 | 400 | M18x1,5 | 23 | 27 | 35 | 20 | 37 | 18,5 | 10 | 27 | 24 | 27 | 17,73 | FI-RSW-15LM-DK-B-W3 | |
| | .59 | 5800 | | .91 | 1.06 | 1.38 | .79 | 1.46 | .73 | .39 | 1.06 | .94 | 1.06 | 39.00 | | |
| | 18 | 400 | M22x1,5 | 27 | 28 | 37 | 20,5 | 43 | 21,5 | 12 | 30 | 27 | 32 | 27,01 | FI-RSW-18LM-DK-B-W3 | |
| | .71 | 5800 | | 1.06 | 1.10 | 1.46 | .81 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.26 | 59.41 | | |
| | 22 | 250 | M26x1,5 | 31 | 34,5 | 43,5 | 27 | 48 | 24 | 16 | 36 | 32 | 36 | 42,27 | FI-RSW-22LM-DK-B-W3 | |
| | .87 | 3625 | | 1.22 | 1.36 | 1.71 | 1.06 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | 93.00 | | |
| | 28 | 250 | M33x2 | 39 | 39 | 48 | 31,5 | 59 | 30,5 | 18 | 46 | 41 | 41 | 83,30 | FI-RSW-28LM-DK-B-W3 | |
| | 1.10 | 3625 | | 1.54 | 1.54 | 1.89 | 1.24 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.61 | 183.26 | | |
| | 35 | 250 | M42x2 | 49 | 46 | 57 | 35,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 146,51 | FI-RSW-35LM-DK-B-W3 | |
| | 1.38 | 3625 | | 1.93 | 1.81 | 2.24 | 1.40 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 322.31 | | |
| | 42 | 250 | M48x2 | 55 | 51 | 63 | 40 | 80 | 40,5 | 22 | 65 | 55 | 60 | 226,97 | FI-RSW-42LM-DK-B-W3 | |
| | 1.65 | 3625 | | 2.17 | 2.01 | 2.48 | 1.57 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 499.34 | | |
| S | 6 | 500 | M12x1,5 | 17,8 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 17 | 10,09 | FI-RSW-06SM-DK-B-W3 | |
| | .24 | 7250 | | .70 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .67 | 22.20 | | |
| | 8 | 500 | M14x1,5 | 17,8 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 19 | 8,69 | FI-RSW-08SM-DK-B-W3 | |
| | .31 | 7250 | | .70 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .75 | 19.12 | | |
| | 10 | 500 | M16x1,5 | 21 | 25,5 | 34,5 | 18 | 32,5 | 16 | 10 | 24 | 22 | 22 | 14,46 | FI-RSW-10SM-DK-B-W3 | |
| | .39 | 7250 | | .83 | 1.00 | 1.36 | .71 | 1.28 | .63 | .39 | .94 | .87 | .87 | 31.81 | | |
| | 12 | 400 | M18x1,5 | 23 | 27 | 36 | 19,5 | 37 | 18,5 | 10 | 27 | 24 | 24 | 19,33 | FI-RSW-12SM-DK-B-W3 | |
| | .47 | 5800 | | .91 | 1.06 | 1.42 | .77 | 1.46 | .73 | .39 | 1.06 | .94 | .94 | 42.52 | | |
| | 14 | 400 | M20x1,5 | 25 | 30 | 40 | 22 | 41 | 19,5 | 12 | 30 | 27 | 27 | 28,76 | FI-RSW-14SM-DK-B-W3 | |
| | .55 | 5800 | | .98 | 1.18 | 1.57 | .87 | 1.61 | .77 | .47 | 1.18 | 1.06 | 1.06 | 63.27 | | |
| | 16 | 400 | M22x1,5 | 27 | 30 | 40 | 21,5 | 43 | 21,5 | 12 | 30 | 27 | 30 | 27,40 | FI-RSW-16SM-DK-B-W3 | |
| | .63 | 5800 | | 1.06 | 1.18 | 1.57 | .85 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.18 | 60.28 | | |
| | 20 | 315 | M27x2 | 32 | 36,5 | 47,5 | 26 | 48 | 24 | 16 | 36 | 32 | 36 | 0,00 | FI-RSW-20SM-DK-B-W3 | |
| | .79 | 4568 | | 1.26 | 1.44 | 1.87 | 1.02 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | .00 | | |
| | 25 | 250 | M33x2 | 39 | 43 | 55 | 31 | 59 | 30,5 | 18 | 46 | 41 | 46 | 30,63 | FI-RSW-25SM-DK-B-W3 | |
| .98 | 3625 | | 1.54 | 1.69 | 2.17 | 1.22 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.81 | 67.39 | | | |
| 30 | 250 | M42x2 | 49 | 50 | 63 | 36,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 149,83 | FI-RSW-30SM-DK-B-W3 | | |
| 1.18 | 3625 | | 1.93 | 1.97 | 2.48 | 1.44 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 329.62 | | | |
| 38 | 250 | M48x2 | 55 | 57 | 72 | 41 | 80 | 40,5 | 22 | 65 | 55 | 60 | 236,07 | FI-RSW-38SM-DK-B-W3 | | |
| 1.50 | 3625 | | 2.17 | 2.24 | 2.83 | 1.61 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 519.36 | | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).



For use with aggressive media and/or at elevated temperatures, please remove the o-ring from the groove located on the banjo bolt prior to installation.

Port acc. to DIN 3852-1 (Form X) / ISO 9974-1

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes
***FI-RSW*-10*L*M*-DK*-B*-W3*-MS**

 * Banjo Elbow (High-Pressure Version) **FI-RSW**

 * Outside Tube Diameter D1 (in mm) **-10**

 * Series Light Series **L**
Heavy Series **S**

 * Thread Type Metric Parallel Thread **M**

If required, please indicate special sizes, e.g. M12x1.5!

 * Seal Type External Metallic Sealing Ring **-DK**

 * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**

 * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

 * Assembling / Kitting Fitting body only **—**

 Fitting body supplied with cutting ring and union nut **-MS**

 Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**
Connecting Parts

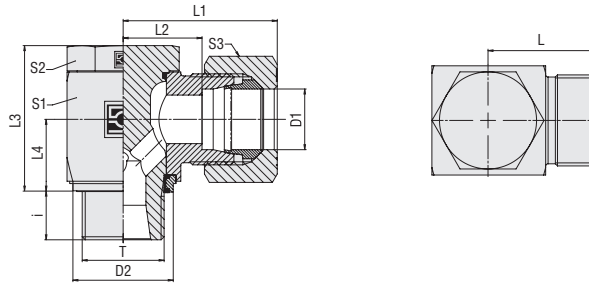
| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

Spare Parts / Accessories

| | | |
|--|--|----------|
| | External Metallic Sealing Ring Type FI-DKR | Page 212 |
| | O-Ring Type O-RING | Page 207 |



Banjo Elbow (High-Pressure Version)
Type FI-RSW-...-R-WD ▪ Series L / S



Whitworth Parallel Pipe Thread (BSPP)

Retaining Ring with Captive Seal

Ordering Codes

***FI-RSW*-10*L*R*-WD*-B*-W3*-MS**

* Banjo Elbow (High-Pressure Version) **FI-RSW**

* Outside Tube Diameter D1 (in mm) **-10**

* Series Light Series **L**
 Heavy Series **S**

* Thread Type Whitworth Parallel Pipe Thread (BSPP) **R**

If required, please indicate special sizes, e.g. R1/8!

* Seal Type Retaining Ring with Captive Seal **-WD**

* Seal Material NBR (Buna-N®) **-B**
 FKM (Viton®) **-V**
 EPDM **-E**

* Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

* Assembling / Kitting Fitting body only **—**

Fitting body supplied with cutting ring and union nut **-MS**

Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

K

| Series | Tube OD (mm/in) | PB (°B/PSI) | Dimensions (mm/in) | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | |
|--------|--------------------|----------------|-----------------------|------|------|------|-----------------|------|------|------|------|------|--|-----------------------------|---------------------|
| | | | Thread | T | D2 | L | L1 ¹ | L2 | L3 | L4 | i | S1 | | | S2 |
| L | 6 | 500 | G 1/8 | 14,9 | 20 | 28 | 13 | 21 | 10,5 | 8 | 14 | 14 | 14 | 3,65 | FI-RSW-06LR-WD-B-W3 |
| | .24 | 7250 | | .59 | .79 | 1.10 | .51 | .83 | .41 | .31 | .55 | .55 | .55 | 8.04 | |
| | 8 | 500 | G 1/4 | 18,9 | 21 | 29 | 14 | 27 | 13,5 | 10 | 19 | 19 | 17 | 7,92 | FI-RSW-08LR-WD-B-W3 |
| | .31 | 7250 | | .74 | .83 | 1.14 | .55 | 1.06 | .53 | .39 | .75 | .75 | .67 | 17.43 | |
| | 10 | 500 | G 1/4 | 18,9 | 22 | 30 | 15 | 27 | 13,5 | 10 | 19 | 19 | 19 | 8,16 | FI-RSW-10LR-WD-B-W3 |
| | .39 | 7250 | | .74 | .87 | 1.18 | .59 | 1.06 | .53 | .39 | .75 | .75 | .75 | 17.95 | |
| | 12 | 400 | G 3/8 | 21,9 | 24,5 | 32,5 | 17,5 | 32,5 | 16 | 12 | 24 | 22 | 22 | 13,94 | FI-RSW-12LR-WD-B-W3 |
| | .47 | 5800 | | .86 | .96 | 1.28 | .69 | 1.28 | .63 | .47 | .94 | .87 | .87 | 30.67 | |
| | 15 | 400 | G 1/2 | 26,9 | 27 | 35 | 21 | 43 | 19,5 | 14 | 30 | 27 | 27 | 26,03 | FI-RSW-15LR-WD-B-W3 |
| | .59 | 5800 | | 1.06 | 1.06 | 1.38 | .83 | 1.69 | .77 | .55 | 1.18 | 1.06 | 1.06 | 57.26 | |
| | 18 | 400 | G 1/2 | 26,9 | 28 | 37 | 20,5 | 43 | 21,5 | 12 | 30 | 27 | 32 | 26,75 | FI-RSW-18LR-WD-B-W3 |
| | .71 | 5800 | | 1.06 | 1.10 | 1.46 | .81 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.26 | 58.86 | |
| | 22 | 250 | G 3/4 | 32,9 | 34,5 | 43,5 | 27 | 48 | 24 | 16 | 36 | 32 | 36 | 42,37 | FI-RSW-22LR-WD-B-W3 |
| | .87 | 3625 | | 1.30 | 1.36 | 1.71 | 1.06 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | 93.21 | |
| | 28 | 250 | G 1 | 39,9 | 39 | 48 | 31,5 | 59 | 30,5 | 18 | 46 | 41 | 41 | 84,00 | FI-RSW-28LR-WD-B-W3 |
| | 1.10 | 3625 | | 1.57 | 1.54 | 1.89 | 1.24 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.61 | 184.80 | |
| | 35 | 250 | G 1 1/4 | 49,9 | 46 | 57 | 35,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 140,00 | FI-RSW-35LR-WD-B-W3 |
| | 1.38 | 3625 | | 1.96 | 1.81 | 2.24 | 1.40 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 308.00 | |
| 42 | 250 | G 1 1/2 | 55,9 | 51 | 63 | 40 | 80 | 40,5 | 22 | 65 | 55 | 60 | 214,30 | FI-RSW-42LR-WD-B-W3 | |
| 1.65 | 3625 | | 2.20 | 2.01 | 2.48 | 1.57 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 471.46 | | |
| S | 6 | 500 | G 1/4 | 18,9 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 17 | 8,36 | FI-RSW-06SR-WD-B-W3 |
| | .24 | 7250 | | .74 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .67 | 18.40 | |
| | 8 | 500 | G 1/4 | 18,9 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 19 | 8,63 | FI-RSW-08SR-WD-B-W3 |
| | .31 | 7250 | | .74 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .75 | 18.99 | |
| | 10 | 500 | G 3/8 | 21,9 | 25,5 | 34,5 | 18 | 32,5 | 16 | 10 | 24 | 22 | 22 | 14,36 | FI-RSW-10SR-WD-B-W3 |
| | .39 | 7250 | | .86 | 1.00 | 1.36 | .71 | 1.28 | .63 | .39 | .94 | .87 | .87 | 31.60 | |
| | 12 | 400 | G 3/8 | 21,9 | 27 | 36 | 18 | 32,5 | 16 | 10 | 24 | 22 | 24 | 14,86 | FI-RSW-12SR-WD-B-W3 |
| | .47 | 5800 | | .86 | 1.06 | 1.42 | .71 | 1.28 | .63 | .39 | .94 | .87 | .94 | 32.70 | |
| | 14 | 400 | G 1/2 | 26,9 | 30 | 40 | 22 | 41 | 19,5 | 14 | 30 | 27 | 27 | 26,74 | FI-RSW-14SR-WD-B-W3 |
| | .55 | 5800 | | 1.06 | 1.18 | 1.57 | .87 | 1.61 | .77 | .55 | 1.18 | 1.06 | 1.06 | 58.83 | |
| | 16 | 400 | G 1/2 | 26,9 | 30 | 40 | 21,5 | 43 | 21,5 | 12 | 30 | 27 | 30 | 27,23 | FI-RSW-16SR-WD-B-W3 |
| | .63 | 5800 | | 1.06 | 1.18 | 1.57 | .85 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.18 | 59.91 | |
| | 20 | 315 | G 3/4 | 32,9 | 36,5 | 47,5 | 26 | 48 | 24 | 16 | 36 | 32 | 36 | 44,33 | FI-RSW-20SR-WD-B-W3 |
| | .79 | 4568 | | 1.30 | 1.44 | 1.87 | 1.02 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | 97.53 | |
| | 25 | 250 | G 1 | 39,9 | 43 | 55 | 31 | 59 | 30,5 | 18 | 46 | 41 | 46 | 86,90 | FI-RSW-25SR-WD-B-W3 |
| | .98 | 3625 | | 1.57 | 1.69 | 2.17 | 1.22 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.81 | 191.18 | |
| | 30 | 250 | G 1 1/4 | 49,9 | 50 | 63 | 36,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 144,70 | FI-RSW-30SR-WD-B-W3 |
| | 1.18 | 3625 | | 1.96 | 1.97 | 2.48 | 1.44 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 318.34 | |
| 38 | 250 | G 1 1/2 | 55,9 | 57 | 72 | 41 | 80 | 40,5 | 22 | 65 | 55 | 60 | 223,60 | FI-RSW-38SR-WD-B-W3 | |
| 1.50 | 3625 | | 2.20 | 2.24 | 2.83 | 1.61 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 491.92 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).

Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Connecting Parts

Cutting Ring
 Type **FI-DS** Page 26

Soft-Sealing Cutting Ring
 Type **FI-WDDS** Page 27

Support Sleeve
 Type **FI-VH** Page 28

STAUFF Form Ring
 Type **FI-AR** Page 30

Union Nut
 Type **FI-M** Page 31

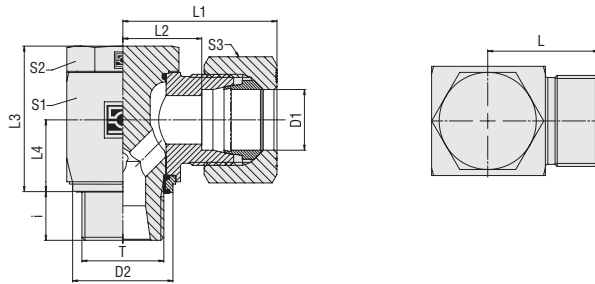
37° Flared Tube Fitting Set
 Type **FI-AB** Page 35

Spare Parts / Accessories

Retaining Ring with Captive Seal
 Type **FI-DIR** Page 213

O-Ring
 Type **O-RING** Page 207




**Banjo Elbow (High-Pressure Version)
Type FI-RSW-...-M-WD ■ Series L / S**

Retaining Ring with Captive Seal
Metric Parallel Thread

| Series | Tube OD (mm/in) | PB (bar/psi) | Dimensions (mm/in) | | | | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|------|------|-----------------|------|------|------|------|------|--------|---------------------|---------------------|--|-----------------------------|
| | | | Thread | T | D2 | L | L1 ¹ | L2 | L3 | L4 | i | S1 | S2 | S3 | | | |
| L | 6 | 500 | M10x1 | 13 | 20 | 28 | 13 | 21 | 10 | 8 | 14 | 14 | 14 | 3,68 | FI-RSW-06LM-WD-B-W3 | | |
| | .24 | 7250 | | .51 | .79 | 1.10 | .51 | .83 | .39 | .31 | .55 | .55 | .55 | 8.09 | | | |
| | 8 | 500 | M12x1,5 | 17,8 | 21 | 29 | 14 | 27 | 13,5 | 10 | 19 | 19 | 17 | 7,68 | FI-RSW-08LM-WD-B-W3 | | |
| | .31 | 7250 | | .70 | .83 | 1.14 | .55 | 1.06 | .53 | .39 | .75 | .75 | .67 | 16.90 | | | |
| | 10 | 500 | M14x1,5 | 17,8 | 22 | 30 | 15 | 27 | 13,5 | 10 | 19 | 19 | 19 | 8,28 | FI-RSW-10LM-WD-B-W3 | | |
| | .39 | 7250 | | .70 | .87 | 1.18 | .59 | 1.06 | .53 | .39 | .75 | .75 | .75 | 18.22 | | | |
| | 12 | 400 | M16x1,5 | 21 | 24,5 | 32,5 | 17,5 | 32,5 | 16 | 10 | 24 | 22 | 22 | 13,60 | FI-RSW-12LM-WD-B-W3 | | |
| | .47 | 5800 | | .83 | .96 | 1.28 | .69 | 1.28 | .63 | .39 | .94 | .87 | .87 | 29.92 | | | |
| | 15 | 400 | M18x1,5 | 23 | 27 | 35 | 20 | 37 | 18,5 | 10 | 27 | 24 | 27 | 19,21 | FI-RSW-15LM-WD-B-W3 | | |
| | .59 | 5800 | | .91 | 1.06 | 1.38 | .79 | 1.46 | .73 | .39 | 1.06 | .94 | 1.06 | 42.26 | | | |
| | 18 | 400 | M22x1,5 | 27 | 28 | 37 | 20,5 | 43 | 21,5 | 12 | 30 | 27 | 32 | 27,12 | FI-RSW-18LM-WD-B-W3 | | |
| | .71 | 5800 | | 1.06 | 1.10 | 1.46 | .81 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.26 | 59.67 | | | |
| | 22 | 250 | M26x1,5 | 31 | 34,5 | 43,5 | 27 | 48 | 24 | 16 | 36 | 32 | 36 | 42,64 | FI-RSW-22LM-WD-B-W3 | | |
| | .87 | 3625 | | 1.22 | 1.36 | 1.71 | 1.06 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | 93.82 | | | |
| | 28 | 250 | M33x2 | 39 | 39 | 48 | 31,5 | 59 | 30,5 | 18 | 46 | 41 | 41 | 95,43 | FI-RSW-28LM-WD-B-W3 | | |
| | 1.10 | 3625 | | 1.54 | 1.54 | 1.89 | 1.24 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.61 | 209.95 | | | |
| | 35 | 250 | M42x2 | 49 | 46 | 57 | 35,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 146,83 | FI-RSW-35LM-WD-B-W3 | | |
| | 1.38 | 3625 | | 1.93 | 1.81 | 2.24 | 1.40 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 323.03 | | | |
| 42 | 250 | M48x2 | 55 | 51 | 63 | 40 | 80 | 40,5 | 22 | 65 | 55 | 60 | 221,72 | FI-RSW-42LM-WD-B-W3 | | | |
| 1.65 | 3625 | | 2.17 | 2.01 | 2.48 | 1.57 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 487.79 | | | | |
| S | 6 | 500 | M12x1,5 | 17,8 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 17 | 8,10 | FI-RSW-06SM-WD-B-W3 | | |
| | .24 | 7250 | | .70 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .67 | 17.82 | | | |
| | 8 | 500 | M14x1,5 | 17,8 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 19 | 8,80 | FI-RSW-08SM-WD-B-W3 | | |
| | .31 | 7250 | | .70 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .75 | 19.36 | | | |
| | 10 | 500 | M16x1,5 | 21 | 25,5 | 34,5 | 18 | 32,5 | 16 | 10 | 24 | 22 | 22 | 14,19 | FI-RSW-10SM-WD-B-W3 | | |
| | .39 | 7250 | | .83 | 1.00 | 1.36 | .71 | 1.28 | .63 | .39 | .94 | .87 | .87 | 31.21 | | | |
| | 12 | 400 | M18x1,5 | 23 | 27 | 36 | 19,5 | 37 | 18,5 | 10 | 27 | 24 | 24 | 19,53 | FI-RSW-12SM-WD-B-W3 | | |
| | .47 | 5800 | | .91 | 1.06 | 1.42 | .77 | 1.46 | .73 | .39 | 1.06 | .94 | .94 | 42.97 | | | |
| | 14 | 400 | M20x1,5 | 25 | 30 | 40 | 22 | 41 | 19,5 | 12 | 30 | 27 | 27 | 29,38 | FI-RSW-14SM-WD-B-W3 | | |
| | .55 | 5800 | | .98 | 1.18 | 1.57 | .87 | 1.61 | .77 | .47 | 1.18 | 1.06 | 1.06 | 64.63 | | | |
| | 16 | 400 | M22x1,5 | 27 | 30 | 40 | 21,5 | 43 | 21,5 | 12 | 30 | 27 | 30 | 27,53 | FI-RSW-16SM-WD-B-W3 | | |
| | .63 | 5800 | | 1.06 | 1.18 | 1.57 | .85 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.18 | 60.56 | | | |
| | 20 | 315 | M27x2 | 32 | 36,5 | 47,5 | 26 | 48 | 24 | 16 | 36 | 32 | 36 | 44,30 | FI-RSW-20SM-WD-B-W3 | | |
| | .79 | 4568 | | 1.26 | 1.44 | 1.87 | 1.02 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | 97.47 | | | |
| | 25 | 250 | M33x2 | 39 | 43 | 55 | 31 | 59 | 30,5 | 18 | 46 | 41 | 46 | 224,50 | FI-RSW-25SM-WD-B-W3 | | |
| | .98 | 3625 | | 1.54 | 1.69 | 2.17 | 1.22 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.81 | 493.90 | | | |
| | 30 | 250 | M42x2 | 49 | 50 | 63 | 36,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 150,16 | FI-RSW-30SM-WD-B-W3 | | |
| | 1.18 | 3625 | | 1.93 | 1.97 | 2.48 | 1.44 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 330.36 | | | |
| 38 | 250 | M48x2 | 55 | 57 | 72 | 41 | 80 | 40,5 | 22 | 65 | 55 | 60 | 224,90 | FI-RSW-38SM-WD-B-W3 | | | |
| 1.50 | 3625 | | 2.17 | 2.24 | 2.83 | 1.61 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 494.78 | | | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).

Port acc. to DIN 3852-1 (Form X) / ISO 9974-1

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes
***FI-RSW*-10*L*M*-WD*-B*-W3*-MS**

 * Banjo Elbow (High-Pressure Version) **FI-RSW**

 * Outside Tube Diameter D1 (in mm) **-10**

 * Series Light Series **L**
Heavy Series **S**

 * Thread Type Metric Parallel Thread **M**

If required, please indicate special sizes, e.g. M12x1.5!

 * Seal Type Retaining Ring with Captive Seal **-WD**

 * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**

 * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

 * Assembling / Kitting Fitting body only **—**

 Fitting body supplied with cutting ring and union nut **-MS**

 Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**
Connecting Parts

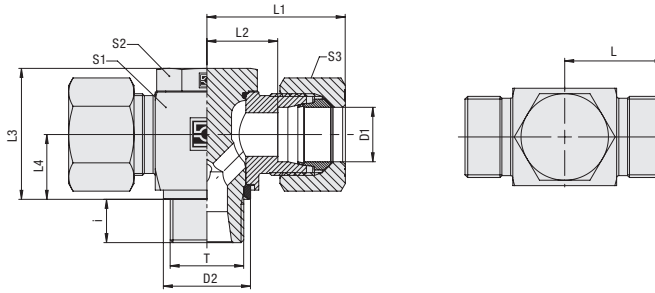
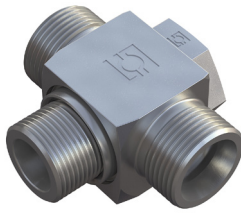
| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

Spare Parts / Accessories

| | | |
|--|--|----------|
| | Retaining Ring with Captive Seal Type FI-DIR | Page 213 |
| | O-Ring Type O-RING | Page 207 |



Banjo Tee (High-Pressure Version)
Type FI-RST-...-R-DK • Series L / S



Whitworth Parallel Pipe Thread (BSPP)

External Metallic Sealing Ring

Ordering Codes

***FI-RST*-10*L*R*-DK*-B*-W3*-MS**

* Banjo Tee (High-Pressure Version) **FI-RST**

* Outside Tube Diameter D1 (in mm) **-10**

* Series Light Series **L**
 Heavy Series **S**

* Thread Type Whitworth Parallel Pipe Thread (BSPP) **R**

If required, please indicate special sizes, e.g. R1/8!

* Seal Type External Metallic Sealing Ring **-DK**

* Seal Material NBR (Buna-N®) **-B**
 FKM (Viton®) **-V**
 EPDM **-E**

* Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

* Assembling / Kitting Fitting body only **—**

Fitting body supplied with cutting ring and union nut **-MS**

Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

K

| Series | Tube OD (mm/in) | PB (mm/in) | Dimensions | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ | |
|--------|--------------------|---------------|------------|------|------|------|-----------------|------|------|------|------|------|--|-----------------------------|---------------------|
| | | | Thread | T | D2 | L | L1 ¹ | L2 | L3 | L4 | i | S1 | | | S2 |
| L | 6 | 500 | G 1/8 | 13 | 20 | 28 | 13 | 21 | 10,5 | 8 | 14 | 14 | 14 | 4,57 | FI-RST-06LR-DK-B-W3 |
| | .24 | 7250 | | .51 | .79 | 1.10 | .51 | .83 | .41 | .31 | .55 | .55 | .55 | 10,04 | |
| | 8 | 500 | G 1/4 | 17,8 | 21 | 29 | 14 | 27 | 13,5 | 10 | 19 | 19 | 17 | 8,60 | FI-RST-08LR-DK-B-W3 |
| | .31 | 7250 | | .70 | .83 | 1.14 | .55 | 1.06 | .53 | .39 | .75 | .75 | .67 | 18,92 | |
| | 10 | 500 | G 1/4 | 17,8 | 22 | 30 | 15 | 27 | 13,5 | 10 | 19 | 19 | 19 | 8,93 | FI-RST-10LR-DK-B-W3 |
| | .39 | 7250 | | .70 | .87 | 1.18 | .59 | 1.06 | .53 | .39 | .75 | .75 | .75 | 19,65 | |
| | 12 | 400 | G 3/8 | 22 | 24,5 | 32,5 | 17,5 | 32,5 | 16 | 12 | 24 | 22 | 22 | 15,04 | FI-RST-12LR-DK-B-W3 |
| | .47 | 5800 | | .87 | .96 | 1.28 | .69 | 1.28 | .63 | .47 | .94 | .87 | .87 | 33,08 | |
| | 15 | 400 | G 1/2 | 26 | 27 | 35 | 21 | 43 | 19,5 | 14 | 30 | 27 | 27 | 30,15 | FI-RST-15LR-DK-B-W3 |
| | .59 | 5800 | | 1.02 | 1.06 | 1.38 | .83 | 1.69 | .77 | .55 | 1.18 | 1.06 | 1.06 | 66,33 | |
| | 18 | 400 | G 1/2 | 26 | 28 | 37 | 20,5 | 43 | 21,5 | 12 | 30 | 27 | 32 | 31,25 | FI-RST-18LR-DK-B-W3 |
| | .71 | 5800 | | 1.02 | 1.10 | 1.46 | .81 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.26 | 68,75 | |
| | 22 | 250 | G 3/4 | 32 | 34,5 | 43,5 | 27 | 48 | 24 | 16 | 36 | 32 | 36 | 46,23 | FI-RST-22LR-DK-B-W3 |
| | .87 | 3625 | | 1.26 | 1.36 | 1.71 | 1.06 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | 101,70 | |
| | 28 | 250 | G 1 | 39 | 39 | 48 | 31,5 | 59 | 30,5 | 18 | 46 | 41 | 41 | 80,19 | FI-RST-28LR-DK-B-W3 |
| | 1.10 | 3625 | | 1.54 | 1.54 | 1.89 | 1.24 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.61 | 176,41 | |
| | 35 | 250 | G 1 1/4 | 49 | 46 | 57 | 35,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 145,46 | FI-RST-35LR-DK-B-W3 |
| | 1.38 | 3625 | | 1.93 | 1.81 | 2.24 | 1.40 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 320,00 | |
| 42 | 250 | G 1 1/2 | 55 | 51 | 63 | 40 | 80 | 40,5 | 22 | 65 | 55 | 60 | 217,14 | FI-RST-42LR-DK-B-W3 | |
| 1.65 | 3625 | | 2.17 | 2.01 | 2.48 | 1.57 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 477,71 | | |
| S | 6 | 500 | G 1/4 | 17,8 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 17 | 9,48 | FI-RST-06SR-DK-B-W3 |
| | .24 | 7250 | | .70 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .67 | 20,86 | |
| | 8 | 500 | G 1/4 | 17,8 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 19 | 9,97 | FI-RST-08SR-DK-B-W3 |
| | .31 | 7250 | | .70 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .75 | 21,93 | |
| | 10 | 500 | G 3/8 | 22 | 25,5 | 34,5 | 18 | 32,5 | 16 | 10 | 24 | 22 | 22 | 19,10 | FI-RST-10SR-DK-B-W3 |
| | .39 | 7250 | | .87 | 1.00 | 1.36 | .71 | 1.28 | .63 | .39 | .94 | .87 | .87 | 42,02 | |
| | 12 | 400 | G 3/8 | 22 | 27 | 36 | 18 | 32,5 | 16 | 10 | 24 | 22 | 24 | 16,38 | FI-RST-12SR-DK-B-W3 |
| | .47 | 5800 | | .87 | 1.06 | 1.42 | .71 | 1.28 | .63 | .39 | .94 | .87 | .94 | 36,03 | |
| | 14 | 400 | G 1/2 | 26 | 30 | 40 | 22 | 41 | 19,5 | 14 | 30 | 27 | 27 | 91,00 | FI-RST-14SR-DK-B-W3 |
| | .55 | 5800 | | 1.02 | 1.18 | 1.57 | .87 | 1.61 | .77 | .55 | 1.18 | 1.06 | 1.06 | 200,20 | |
| | 16 | 400 | G 1/2 | 26 | 30 | 40 | 21,5 | 43 | 21,5 | 12 | 30 | 27 | 30 | 31,85 | FI-RST-16SR-DK-B-W3 |
| | .63 | 5800 | | 1.02 | 1.18 | 1.57 | .85 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.18 | 70,08 | |
| | 20 | 315 | G 3/4 | 32 | 36,5 | 47,5 | 26 | 48 | 24 | 16 | 36 | 32 | 36 | 48,45 | FI-RST-20SR-DK-B-W3 |
| | .79 | 4568 | | 1.26 | 1.44 | 1.87 | 1.02 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | 106,58 | |
| | 25 | 250 | G 1 | 39 | 43 | 55 | 31 | 59 | 30,5 | 18 | 46 | 41 | 46 | 93,55 | FI-RST-25SR-DK-B-W3 |
| | .98 | 3625 | | 1.54 | 1.69 | 2.17 | 1.22 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.81 | 205,80 | |
| | 30 | 250 | G 1 1/4 | 49 | 50 | 63 | 36,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 153,59 | FI-RST-30SR-DK-B-W3 |
| | 1.18 | 3625 | | 1.93 | 1.97 | 2.48 | 1.44 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 337,91 | |
| 38 | 250 | G 1 1/2 | 55 | 57 | 72 | 41 | 80 | 40,5 | 22 | 65 | 55 | 60 | 236,22 | FI-RST-38SR-DK-B-W3 | |
| 1.50 | 3625 | | 2.17 | 2.24 | 2.83 | 1.61 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 519,69 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).



For use with aggressive media and/or at elevated temperatures, please remove the o-ring from the groove located on the banjo bolt prior to installation.

Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Connecting Parts



Cutting Ring
 Type **FI-DS** Page 26



Soft-Sealing Cutting Ring
 Type **FI-WDDS** Page 27



Support Sleeve
 Type **FI-VH** Page 28



STAUFF Form Ring
 Type **FI-AR** Page 30



Union Nut
 Type **FI-M** Page 31



37° Flared Tube Fitting Set
 Type **FI-AB** Page 35

Spare Parts / Accessories

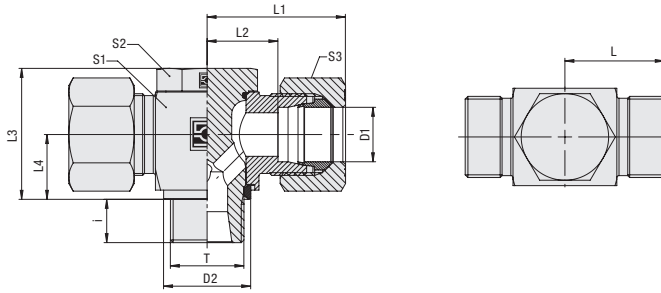
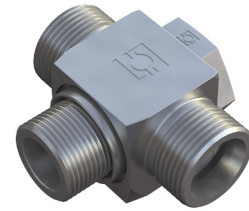


External Metallic Sealing Ring
 Type **FI-DKR** Page 212



O-Ring
 Type **O-RING** Page 207




**Banjo Tee (High-Pressure Version)
Type FI-RST-...-M-DK ■ Series L / S**

External Metallic Sealing Ring
Metric Parallel Thread

| Series | Tube OD (mm/in) | PB (bar/psi) | Dimensions (mm/in) | Dimensions | | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------------|------|------|------|-----------------|------|------|------|------|--------|---------------------|--|-----------------------------|
| | | | | Thread | T | D2 | L | L1 ¹ | L2 | L3 | L4 | i | S1 | S2 | | |
| L | 6 | 500 | M10x1 | 13 | 20 | 28 | 13 | 21 | 10 | 8 | 14 | 14 | 14 | 4,59 | FI-RST-06LM-DK-B-W3 | |
| | .24 | 7250 | | .51 | .79 | 1.10 | .51 | .83 | .39 | .31 | .55 | .55 | .55 | 10.10 | | |
| | 8 | 500 | M12x1,5 | 17,8 | 21 | 29 | 14 | 27 | 13,5 | 10 | 19 | 19 | 17 | 9,66 | FI-RST-08LM-DK-B-W3 | |
| | .31 | 7250 | | .70 | .83 | 1.14 | .55 | 1.06 | .53 | .39 | .75 | .75 | .67 | 21.25 | | |
| | 10 | 500 | M14x1,5 | 17,8 | 22 | 30 | 15 | 27 | 13,5 | 10 | 19 | 19 | 19 | 11,05 | FI-RST-10LM-DK-B-W3 | |
| | .39 | 7250 | | .70 | .87 | 1.18 | .59 | 1.06 | .53 | .39 | .75 | .75 | .75 | 24.30 | | |
| | 12 | 400 | M16x1,5 | 21 | 24,5 | 32,5 | 17,5 | 32,5 | 16 | 10 | 24 | 22 | 22 | 14,71 | FI-RST-12LM-DK-B-W3 | |
| | .47 | 5800 | | .83 | .96 | 1.28 | .69 | 1.28 | .63 | .39 | .94 | .87 | .87 | 32.35 | | |
| | 15 | 400 | M18x1,5 | 23 | 27 | 35 | 20 | 37 | 18,5 | 10 | 27 | 24 | 27 | 10,80 | FI-RST-15LM-DK-B-W3 | |
| | .59 | 5800 | | .91 | 1.06 | 1.38 | .79 | 1.46 | .73 | .39 | 1.06 | .94 | 1.06 | 23.76 | | |
| | 18 | 400 | M22x1,5 | 27 | 28 | 37 | 20,5 | 43 | 21,5 | 12 | 30 | 27 | 32 | 31,81 | FI-RST-18LM-DK-B-W3 | |
| | .71 | 5800 | | 1.06 | 1.10 | 1.46 | .81 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.26 | 69.97 | | |
| | 22 | 250 | M26x1,5 | 31 | 34,5 | 43,5 | 27 | 48 | 24 | 16 | 36 | 32 | 36 | 44,90 | FI-RST-22LM-DK-B-W3 | |
| | .87 | 3625 | | 1.22 | 1.36 | 1.71 | 1.06 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | 98.78 | | |
| | 28 | 250 | M33x2 | 39 | 39 | 48 | 31,5 | 59 | 30,5 | 18 | 46 | 41 | 41 | 85,11 | FI-RST-28LM-DK-B-W3 | |
| | 1.10 | 3625 | | 1.54 | 1.54 | 1.89 | 1.24 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.61 | 187.23 | | |
| | 35 | 250 | M42x2 | 49 | 46 | 57 | 35,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 145,36 | FI-RST-35LM-DK-B-W3 | |
| | 1.38 | 3625 | | 1.93 | 1.81 | 2.24 | 1.40 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 319.78 | | |
| | 42 | 250 | M48x2 | 55 | 51 | 63 | 40 | 80 | 40,5 | 22 | 65 | 55 | 60 | 218,24 | FI-RST-42LM-DK-B-W3 | |
| | 1.65 | 3625 | | 2.17 | 2.01 | 2.48 | 1.57 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 480.13 | | |
| S | 6 | 500 | M12x1,5 | 17,8 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 17 | 11,23 | FI-RST-06SM-DK-B-W3 | |
| | .24 | 7250 | | .70 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .67 | 24.71 | | |
| | 8 | 500 | M14x1,5 | 17,8 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 19 | 12,02 | FI-RST-08SM-DK-B-W3 | |
| | .31 | 7250 | | .70 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .75 | 26.45 | | |
| | 10 | 500 | M16x1,5 | 21 | 25,5 | 34,5 | 18 | 32,5 | 16 | 10 | 24 | 22 | 22 | 19,01 | FI-RST-10SM-DK-B-W3 | |
| | .39 | 7250 | | .83 | 1.00 | 1.36 | .71 | 1.28 | .63 | .39 | .94 | .87 | .87 | 41.81 | | |
| | 12 | 400 | M18x1,5 | 23 | 27 | 36 | 19,5 | 37 | 18,5 | 10 | 27 | 24 | 24 | 21,32 | FI-RST-12SM-DK-B-W3 | |
| | .47 | 5800 | | .91 | 1.06 | 1.42 | .77 | 1.46 | .73 | .39 | 1.06 | .94 | .94 | 46.90 | | |
| | 14 | 400 | M20x1,5 | 25 | 30 | 40 | 22 | 41 | 19,5 | 12 | 30 | 27 | 27 | 30,96 | FI-RST-14SM-DK-B-W3 | |
| | .55 | 5800 | | .98 | 1.18 | 1.57 | .87 | 1.61 | .77 | .47 | 1.18 | 1.06 | 1.06 | 68.11 | | |
| | 16 | 400 | M22x1,5 | 27 | 30 | 40 | 21,5 | 43 | 21,5 | 12 | 30 | 27 | 30 | 32,41 | FI-RST-16SM-DK-B-W3 | |
| | .63 | 5800 | | 1.06 | 1.18 | 1.57 | .85 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.18 | 71.29 | | |
| | 20 | 315 | M27x2 | 32 | 36,5 | 47,5 | 26 | 48 | 24 | 16 | 36 | 32 | 36 | 16,50 | FI-RST-20SM-DK-B-W3 | |
| | .79 | 4568 | | 1.26 | 1.44 | 1.87 | 1.02 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | 36.29 | | |
| | 25 | 250 | M33x2 | 39 | 43 | 55 | 31 | 59 | 30,5 | 18 | 46 | 41 | 46 | 93,47 | FI-RST-25SM-DK-B-W3 | |
| .98 | 3625 | | 1.54 | 1.69 | 2.17 | 1.22 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.81 | 205.62 | | | |
| 30 | 250 | M42x2 | 49 | 50 | 63 | 36,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 153,16 | FI-RST-30SM-DK-B-W3 | | |
| 1.18 | 3625 | | 1.93 | 1.97 | 2.48 | 1.44 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 336.94 | | | |
| 38 | 250 | M48x2 | 55 | 57 | 72 | 41 | 80 | 40,5 | 22 | 65 | 55 | 60 | 237,04 | FI-RST-38SM-DK-B-W3 | | |
| 1.50 | 3625 | | 2.17 | 2.24 | 2.83 | 1.61 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 521.49 | | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).



For use with aggressive media and/or at elevated temperatures, please remove the o-ring from the groove located on the banjo bolt prior to installation.

Port acc. to DIN 3852-1 (Form X) / ISO 9974-1

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes
***FI-RST*-10*L*M*-DK*-B*-W3*-MS**

| | |
|---|--|
| * Banjo Tee (High-Pressure Version) | FI-RST |
| * Outside Tube Diameter D1 (in mm) | -10 |
| * Series | Light Series L Heavy Series S |
| * Thread Type | Metric Parallel Thread M |
| If required, please indicate special sizes, e.g. M12x1.5! | |
| * Seal Type | External Metallic Sealing Ring -DK |
| * Seal Material | NBR (Buna-N®) -B FKM (Viton®) -V EPDM -E |
| * Material Code | Steel, zinc/nickel-plated -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | |
| * Assembling / Kitting | Fitting body only — Fitting body supplied with cutting ring and union nut -MS Fitting body supplied with soft-sealing cutting ring and union nut -MSV |

Connecting Parts

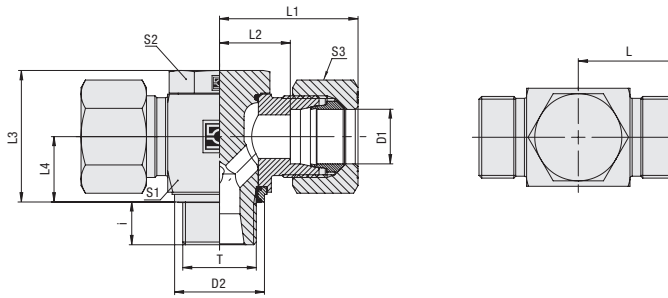
| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

Spare Parts / Accessories

| | | |
|--|--|----------|
| | External Metallic Sealing Ring Type FI-DKR | Page 212 |
| | O-Ring Type O-RING | Page 207 |



Banjo Tee (High-Pressure Version)
Type FI-RST-...-R-WD • Series L / S



Ordering Codes

***FI-RST*-10*L*R*-WD*-B*-W3*-MS**

- * Banjo Tee (High-Pressure Version) **FI-RST**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Light Series **L**
Heavy Series **S**
- * Thread Type Whitworth Parallel Pipe Thread (BSPP) **R**
- If required, please indicate special sizes, e.g. R1/8!
- * Seal Type Retaining Ring with Captive Seal **-WD**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body only **—**
Fitting body supplied with cutting ring and union nut **-MS**
Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Whitworth Parallel Pipe Thread (BSPP)

Retaining Ring with Captive Seal

| Series | Tube OD (mm/in) | PB (mm/psi) | Dimensions | | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|----------------|------------|------|------|------|-----------------|------|------|------|------|------|--------|--|-----------------------------|
| | | | Thread | T | D2 | L | L1 ¹ | L2 | L3 | L4 | i | S1 | S2 | | |
| L | 6 | 500 | G 1/8 | 14,9 | 20 | 28 | 13 | 21 | 10,5 | 8 | 14 | 14 | 14 | 4,31 | FI-RST-06LR-WD-B-W3 |
| | .24 | 7250 | | .59 | .79 | 1.10 | .51 | .83 | .41 | .31 | .55 | .55 | .55 | 9.48 | |
| | 8 | 500 | G 1/4 | 18,9 | 21 | 29 | 14 | 27 | 13,5 | 10 | 19 | 19 | 17 | 8,60 | FI-RST-08LR-WD-B-W3 |
| | .31 | 7250 | | .74 | .83 | 1.14 | .55 | 1.06 | .53 | .39 | .75 | .75 | .67 | 18.92 | |
| | 10 | 500 | G 1/4 | 18,9 | 22 | 30 | 15 | 27 | 13,5 | 10 | 19 | 19 | 19 | 8,92 | FI-RST-10LR-WD-B-W3 |
| | .39 | 7250 | | .74 | .87 | 1.18 | .59 | 1.06 | .53 | .39 | .75 | .75 | .75 | 19.63 | |
| | 12 | 400 | G 3/8 | 21,9 | 24,5 | 32,5 | 17,5 | 32,5 | 16 | 12 | 24 | 22 | 22 | 14,78 | FI-RST-12LR-WD-B-W3 |
| | .47 | 5800 | | .86 | .96 | 1.28 | .69 | 1.28 | .63 | .47 | .94 | .87 | .87 | 32.52 | |
| | 15 | 400 | G 1/2 | 26,9 | 27 | 35 | 21 | 43 | 19,5 | 14 | 30 | 27 | 27 | 27,43 | FI-RST-15LR-WD-B-W3 |
| | .59 | 5800 | | 1.06 | 1.06 | 1.38 | .83 | 1.69 | .77 | .55 | 1.18 | 1.06 | 1.06 | 60.35 | |
| | 18 | 400 | G 1/2 | 26,9 | 28 | 37 | 20,5 | 43 | 21,5 | 12 | 30 | 27 | 32 | 1,52 | FI-RST-18LR-WD-B-W3 |
| | .71 | 5800 | | 1.06 | 1.10 | 1.46 | .81 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.26 | 3.34 | |
| | 22 | 250 | G 3/4 | 32,9 | 34,5 | 43,5 | 27 | 48 | 24 | 16 | 36 | 32 | 36 | 45,42 | FI-RST-22LR-WD-B-W3 |
| | .87 | 3625 | | 1.30 | 1.36 | 1.71 | 1.06 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | 99.91 | |
| | 28 | 250 | G 1 | 39,9 | 39 | 48 | 31,5 | 59 | 30,5 | 18 | 46 | 41 | 41 | 85,48 | FI-RST-28LR-WD-B-W3 |
| | 1.10 | 3625 | | 1.57 | 1.54 | 1.89 | 1.24 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.61 | 188.06 | |
| | 35 | 250 | G 1 1/4 | 49,9 | 46 | 57 | 35,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 145,79 | FI-RST-35LR-WD-B-W3 |
| | 1.38 | 3625 | | 1.96 | 1.81 | 2.24 | 1.40 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 320.75 | |
| 42 | 250 | G 1 1/2 | 55,9 | 51 | 63 | 40 | 80 | 40,5 | 22 | 65 | 55 | 60 | 217,42 | FI-RST-42LR-WD-B-W3 | |
| 1.65 | 3625 | | 2.20 | 2.01 | 2.48 | 1.57 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 478.33 | | |
| S | 6 | 500 | G 1/4 | 18,9 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 17 | 9,30 | FI-RST-06SR-WD-B-W3 |
| | .24 | 7250 | | .74 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .67 | 20.46 | |
| | 8 | 500 | G 1/4 | 18,9 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 19 | 9,97 | FI-RST-08SR-WD-B-W3 |
| | .31 | 7250 | | .74 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .75 | 21.93 | |
| | 10 | 500 | G 3/8 | 21,9 | 25,5 | 34,5 | 18 | 32,5 | 16 | 10 | 24 | 22 | 22 | 19,08 | FI-RST-10SR-WD-B-W3 |
| | .39 | 7250 | | .86 | 1.00 | 1.36 | .71 | 1.28 | .63 | .39 | .94 | .87 | .87 | 41.98 | |
| | 12 | 400 | G 3/8 | 21,9 | 27 | 36 | 18 | 32,5 | 16 | 10 | 24 | 22 | 24 | 16,36 | FI-RST-12SR-WD-B-W3 |
| | .47 | 5800 | | .86 | 1.06 | 1.42 | .71 | 1.28 | .63 | .39 | .94 | .87 | .94 | 35.99 | |
| | 14 | 400 | G 1/2 | 26,9 | 30 | 40 | 22 | 41 | 19,5 | 14 | 30 | 27 | 27 | 31,86 | FI-RST-14SR-WD-B-W3 |
| | .55 | 5800 | | 1.06 | 1.18 | 1.57 | .87 | 1.61 | .77 | .55 | 1.18 | 1.06 | 1.06 | 70.09 | |
| | 16 | 400 | G 1/2 | 26,9 | 30 | 40 | 21,5 | 43 | 21,5 | 12 | 30 | 27 | 30 | 29,20 | FI-RST-16SR-WD-B-W3 |
| | .63 | 5800 | | 1.06 | 1.18 | 1.57 | .85 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.18 | 64.24 | |
| | 20 | 315 | G 3/4 | 32,9 | 36,5 | 47,5 | 26 | 48 | 24 | 16 | 36 | 32 | 36 | 48,66 | FI-RST-20SR-WD-B-W3 |
| | .79 | 4568 | | 1.30 | 1.44 | 1.87 | 1.02 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | 107.05 | |
| | 25 | 250 | G 1 | 39,9 | 43 | 55 | 31 | 59 | 30,5 | 18 | 46 | 41 | 46 | 93,55 | FI-RST-25SR-WD-B-W3 |
| | .98 | 3625 | | 1.57 | 1.69 | 2.17 | 1.22 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.81 | 205.80 | |
| | 30 | 250 | G 1 1/4 | 49,9 | 50 | 63 | 36,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 153,59 | FI-RST-30SR-WD-B-W3 |
| | 1.18 | 3625 | | 1.96 | 1.97 | 2.48 | 1.44 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 337.91 | |
| 38 | 250 | G 1 1/2 | 55,9 | 57 | 72 | 41 | 80 | 40,5 | 22 | 65 | 55 | 60 | 236,22 | FI-RST-38SR-WD-B-W3 | |
| 1.50 | 3625 | | 2.20 | 2.24 | 2.83 | 1.61 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 519.69 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).

Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

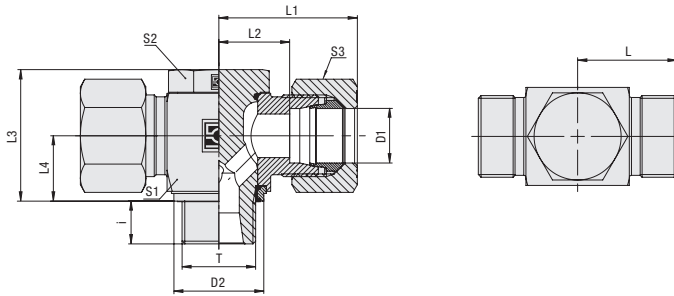
Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

Spare Parts / Accessories

- Retaining Ring with Captive Seal Type **FI-DIR** Page 213
- O-Ring Type **O-RING** Page 207




**Banjo Tee (High-Pressure Version)
Type FI-RST-...-M-WD ■ Series L / S**

Retaining Ring with Captive Seal
Metric Parallel Thread

| Series | Tube OD (mm/in) | PB (bar/psi) | Dimensions (mm/in) | | | | | | | | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|------|------|-----------------|------|------|------|------|------|--------|---------------------|---------------------|--|-----------------------------|
| | | | Thread | T | D2 | L | L1 ¹ | L2 | L3 | L4 | i | S1 | S2 | S3 | | | |
| L | 6 | 500 | M10x1 | 13 | 20 | 28 | 13 | 21 | 10 | 8 | 14 | 14 | 14 | 5,83 | FI-RST-06LM-WD-B-W3 | | |
| | .24 | 7250 | | .51 | .79 | 1.10 | .51 | .83 | .39 | .31 | .55 | .55 | .55 | 12,83 | | | |
| | 8 | 500 | M12x1,5 | 17,8 | 21 | 29 | 14 | 27 | 13,5 | 10 | 19 | 19 | 17 | 9,66 | FI-RST-08LM-WD-B-W3 | | |
| | .31 | 7250 | | .70 | .83 | 1.14 | .55 | 1.06 | .53 | .39 | .75 | .75 | .67 | 21,25 | | | |
| | 10 | 500 | M14x1,5 | 17,8 | 22 | 30 | 15 | 27 | 13,5 | 10 | 19 | 19 | 19 | 13,25 | FI-RST-10LM-WD-B-W3 | | |
| | .39 | 7250 | | .70 | .87 | 1.18 | .59 | 1.06 | .53 | .39 | .75 | .75 | .75 | 29,15 | | | |
| | 12 | 400 | M16x1,5 | 21 | 24,5 | 32,5 | 17,5 | 32,5 | 16 | 10 | 24 | 22 | 22 | 14,78 | FI-RST-12LM-WD-B-W3 | | |
| | .47 | 5800 | | .83 | .96 | 1.28 | .69 | 1.28 | .63 | .39 | .94 | .87 | .87 | 32,52 | | | |
| | 15 | 400 | M18x1,5 | 23 | 27 | 35 | 20 | 37 | 18,5 | 10 | 27 | 24 | 27 | 23,90 | FI-RST-15LM-WD-B-W3 | | |
| | .59 | 5800 | | .91 | 1.06 | 1.38 | .79 | 1.46 | .73 | .39 | 1.06 | .94 | 1.06 | 52,58 | | | |
| | 18 | 400 | M22x1,5 | 27 | 28 | 37 | 20,5 | 43 | 21,5 | 12 | 30 | 27 | 32 | 29,91 | FI-RST-18LM-WD-B-W3 | | |
| | .71 | 5800 | | 1.06 | 1.10 | 1.46 | .81 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.26 | 65,79 | | | |
| | 22 | 250 | M26x1,5 | 31 | 34,5 | 43,5 | 27 | 48 | 24 | 16 | 36 | 32 | 36 | 42,56 | FI-RST-22LM-WD-B-W3 | | |
| | .87 | 3625 | | 1.22 | 1.36 | 1.71 | 1.06 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | 93,64 | | | |
| | 28 | 250 | M33x2 | 39 | 39 | 48 | 31,5 | 59 | 30,5 | 18 | 46 | 41 | 41 | 95,43 | FI-RST-28LM-WD-B-W3 | | |
| | 1.10 | 3625 | | 1.54 | 1.54 | 1.89 | 1.24 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.61 | 209,95 | | | |
| | 35 | 250 | M42x2 | 49 | 46 | 57 | 35,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 145,36 | FI-RST-35LM-WD-B-W3 | | |
| | 1.38 | 3625 | | 1.93 | 1.81 | 2.24 | 1.40 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 319,78 | | | |
| | 42 | 250 | M48x2 | 55 | 51 | 63 | 40 | 80 | 40,5 | 22 | 65 | 55 | 60 | 221,72 | FI-RST-42LM-WD-B-W3 | | |
| | 1.65 | 3625 | | 2.17 | 2.01 | 2.48 | 1.57 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 487,79 | | | |
| S | 6 | 500 | M12x1,5 | 17,8 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 17 | 10,08 | FI-RST-06SM-WD-B-W3 | | |
| | .24 | 7250 | | .70 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .67 | 22,17 | | | |
| | 8 | 500 | M14x1,5 | 17,8 | 23 | 31 | 16 | 27 | 13,5 | 10 | 19 | 19 | 19 | 10,12 | FI-RST-08SM-WD-B-W3 | | |
| | .31 | 7250 | | .70 | .91 | 1.22 | .63 | 1.06 | .53 | .39 | .75 | .75 | .75 | 22,26 | | | |
| | 10 | 500 | M16x1,5 | 21 | 25,5 | 34,5 | 18 | 32,5 | 16 | 10 | 24 | 22 | 22 | 14,18 | FI-RST-10SM-WD-B-W3 | | |
| | .39 | 7250 | | .83 | 1.00 | 1.36 | .71 | 1.28 | .63 | .39 | .94 | .87 | .87 | 31,19 | | | |
| | 12 | 400 | M18x1,5 | 23 | 27 | 36 | 19,5 | 37 | 18,5 | 10 | 27 | 24 | 24 | 19,66 | FI-RST-12SM-WD-B-W3 | | |
| | .47 | 5800 | | .91 | 1.06 | 1.42 | .77 | 1.46 | .73 | .39 | 1.06 | .94 | .94 | 43,26 | | | |
| | 14 | 400 | M20x1,5 | 25 | 30 | 40 | 22 | 41 | 19,5 | 12 | 30 | 27 | 27 | 29,38 | FI-RST-14SM-WD-B-W3 | | |
| | .55 | 5800 | | .98 | 1.18 | 1.57 | .87 | 1.61 | .77 | .47 | 1.18 | 1.06 | 1.06 | 64,63 | | | |
| | 16 | 400 | M22x1,5 | 27 | 30 | 40 | 21,5 | 43 | 21,5 | 12 | 30 | 27 | 30 | 35,10 | FI-RST-16SM-WD-B-W3 | | |
| | .63 | 5800 | | 1.06 | 1.18 | 1.57 | .85 | 1.69 | .85 | .47 | 1.18 | 1.06 | 1.18 | 77,22 | | | |
| | 20 | 315 | M27x2 | 32 | 36,5 | 47,5 | 26 | 48 | 24 | 16 | 36 | 32 | 36 | 45,86 | FI-RST-20SM-WD-B-W3 | | |
| | .79 | 4568 | | 1.26 | 1.44 | 1.87 | 1.02 | 1.89 | .94 | .63 | 1.42 | 1.26 | 1.42 | 100,89 | | | |
| | 25 | 250 | M33x2 | 39 | 43 | 55 | 31 | 59 | 30,5 | 18 | 46 | 41 | 46 | 82,57 | FI-RST-25SM-WD-B-W3 | | |
| .98 | 3625 | | 1.54 | 1.69 | 2.17 | 1.22 | 2.32 | 1.20 | .71 | 1.81 | 1.61 | 1.81 | 181,64 | | | | |
| 30 | 250 | M42x2 | 49 | 50 | 63 | 36,5 | 70 | 35,5 | 20 | 55 | 50 | 50 | 150,16 | FI-RST-30SM-WD-B-W3 | | | |
| 1.18 | 3625 | | 1.93 | 1.97 | 2.48 | 1.44 | 2.76 | 1.40 | .79 | 2.17 | 1.97 | 1.97 | 330,36 | | | | |
| 38 | 250 | M48x2 | 55 | 57 | 72 | 41 | 80 | 40,5 | 22 | 65 | 55 | 60 | 236,35 | FI-RST-38SM-WD-B-W3 | | | |
| 1.50 | 3625 | | 2.17 | 2.24 | 2.83 | 1.61 | 3.15 | 1.59 | .87 | 2.56 | 2.17 | 2.36 | 519,97 | | | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).

Port acc. to DIN 3852-1 (Form X) / ISO 9974-1

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes
***FI-RST*-10*L*M*-WD*-B*-W3*-MS**

| | |
|---|--|
| * Banjo Tee (High-Pressure Version) | FI-RST |
| * Outside Tube Diameter D1 (in mm) | -10 |
| * Series | Light Series L Heavy Series S |
| * Thread Type | Metric Parallel Thread M |
| If required, please indicate special sizes, e.g. M12x1.5! | |
| * Seal Type | Retaining Ring with Captive Seal -WD |
| * Seal Material | NBR (Buna-N®) -B FKM (Viton®) -V EPDM -E |
| * Material Code | Steel, zinc/nickel-plated -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | |
| * Assembling / Kitting | Fitting body only — Fitting body supplied with cutting ring and union nut -MS Fitting body supplied with soft-sealing cutting ring and union nut -MSV |

Connecting Parts

| | | |
|--|--|---------|
| | Cutting Ring Type FI-DS | Page 26 |
| | Soft-Sealing Cutting Ring Type FI-WDDS | Page 27 |
| | Support Sleeve Type FI-VH | Page 28 |
| | STAUFF Form Ring Type FI-AR | Page 30 |
| | Union Nut Type FI-M | Page 31 |
| | 37° Flared Tube Fitting Set Type FI-AB | Page 35 |

Spare Parts / Accessories

| | | |
|--|--|----------|
| | Retaining Ring with Captive Seal Type FI-DIR | Page 213 |
| | O-Ring Type O-RING | Page 207 |





Swivel Elbow

FI-DGWESV

172-173



**Whitworth Parallel Pipe Thread (BSPP) /
Retaining Ring with Captive Seal**
FI-DGWESV-...-R-WD

172



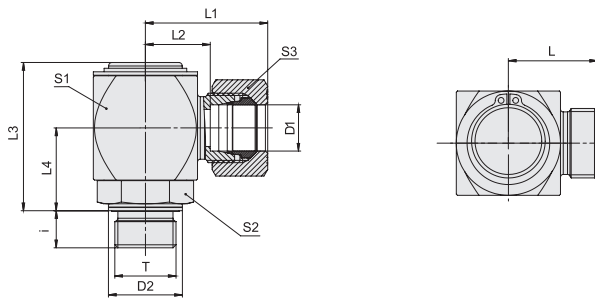
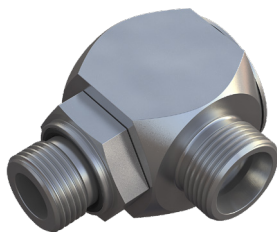
**Metric Parallel Thread /
Retaining Ring with Captive Seal**
FI-DGWESV-...-M-WD

173

L



Swivel Elbow
Type FI-DGWESV-...-R-WD • Series L / S



Ordering Codes

***FI-DGWESV*-10*L*R*-WD*-B*-W66*-MS**

- * Swivel Elbow **FI-DGWESV**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Light Series **L**
Heavy Series **S**
- * Thread Type Whitworth Parallel Pipe Thread (BSPP) **R**
- If required, please indicate special sizes, e.g. R1/8!
- * Seal Type Profile Sealing Ring **-WD**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, zinc-plated and thick-film-passivated **-W66**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Fitting body only **—**
Fitting body supplied with cutting ring and union nut **-MS**
Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Whitworth Parallel Pipe Thread (BSPP)

Profile Sealing Ring

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | | | | Torque (Nm/ft-lb) | Weight (kg/lbs) ca. | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|------|------|----------------|------|------|------|------|------|-------|----------------------|-------------------------|-----------------------------|
| | | | D1 | T | D2 | L | L ¹ | L2 | L3 | L4 | i | S1 | S2 | | | |
| L | 6 | 250 | G 1/8 | 14 | 23 | 31 | 16 | 40 | 21 | 8 | 27 | 19 | 14 | 18 | 16,00 | FI-DGWESV-06LR-WD-B-W66 |
| | .24 | 3625 | | .55 | .91 | 1.22 | .63 | 1.57 | .83 | .31 | 1.06 | .75 | .55 | 13,3 | 35,20 | |
| | 6 | 250 | G 1/4 | 19 | 23 | 27 | 16 | 41 | 22 | 12 | 27 | 19 | 14 | 40 | 16,8 | FI-DGWESV-06LR1/4-WD-B-W66 |
| | .24 | 3625 | | .75 | .91 | 1.06 | .63 | 1.61 | .87 | .47 | 1.06 | .75 | .55 | 29,6 | 36,96 | |
| | 8 | 250 | G 1/4 | 19 | 25 | 33 | 18 | 46 | 25 | 12 | 30 | 22 | 17 | 40 | 23,00 | FI-DGWESV-08LR-WD-B-W66 |
| | .31 | 3625 | | .75 | .98 | 1.30 | .71 | 1.81 | .98 | .47 | 1.18 | .87 | .67 | 29,6 | 50,60 | |
| | 10 | 250 | G 1/4 | 19 | 26 | 34 | 19 | 46 | 25 | 12 | 30 | 22 | 19 | 40 | 23,40 | FI-DGWESV-10LR-WD-B-W66 |
| | .39 | 3625 | | .75 | 1.02 | 1.34 | .75 | 1.81 | .98 | .47 | 1.18 | .87 | .75 | 29,6 | 51,48 | |
| | 10 | 250 | G 3/8 | 22 | 27 | 35 | 20 | 48 | 27 | 12 | 32 | 24 | 19 | 80 | 27,50 | FI-DGWESV-10LR3/8-WD-B-W66 |
| | .39 | 3625 | | .87 | 1.06 | 1.38 | .79 | 1.89 | 1.06 | .47 | 1.26 | .94 | .75 | 59,2 | 60,50 | |
| | 12 | 250 | G 3/8 | 22 | 27 | 35 | 20 | 48 | 27 | 12 | 32 | 24 | 22 | 80 | 28,00 | FI-DGWESV-12LR-WD-B-W66 |
| | .47 | 3625 | | .87 | 1.06 | 1.38 | .79 | 1.89 | 1.06 | .47 | 1.26 | .94 | .87 | 59,2 | 61,60 | |
| | 12 | 250 | G 1/2 | 27 | 29 | 37 | 22 | 55 | 30 | 14 | 36 | 27 | 22 | 110 | 38,80 | FI-DGWESV-12LR1/2-WD-B-W66 |
| | .47 | 3625 | | 1.06 | 1.14 | 1.46 | .87 | 2.17 | 1.18 | .55 | 1.42 | 1.06 | .87 | 81,4 | 85,36 | |
| | 15 | 250 | G 1/2 | 27 | 32 | 40 | 25 | 59 | 33 | 14 | 40 | 32 | 27 | 110 | 52,80 | FI-DGWESV-15LR-WD-B-W66 |
| | .59 | 3625 | | 1.06 | 1.26 | 1.57 | .98 | 2.32 | 1.30 | .55 | 1.57 | 1.26 | 1.06 | 81,4 | 116,16 | |
| | 18 | 160 | G 1/2 | 27 | 32 | 41 | 24,5 | 59 | 33 | 14 | 40 | 32 | 32 | 110 | 52,60 | FI-DGWESV-18LR-WD-B-W66 |
| | .71 | 2320 | | 1.06 | 1.26 | 1.61 | .96 | 2.32 | 1.30 | .55 | 1.57 | 1.26 | 1.26 | 81,40 | 115,72 | |
| | 22 | 160 | G 3/4 | 32 | 36 | 45 | 28,5 | 66 | 35 | 16 | 45 | 36 | 36 | 180 | 72,00 | FI-DGWESV-22LR-WD-B-W66 |
| | .87 | 2320 | | 1.26 | 1.42 | 1.77 | 1.12 | 2.60 | 1.38 | .63 | 1.77 | 1.42 | 1.42 | 133,2 | 158,40 | |
| 28 | 100 | G 1 | 40 | 41 | 50 | 33,5 | 78 | 41 | 18 | 55 | 41 | 41 | 300 | 126,70 | FI-DGWESV-28LR-WD-B-W66 | |
| 1.10 | 1450 | | 1.57 | 1.61 | 1.97 | 1.32 | 3.07 | 1.61 | .71 | 2.17 | 1.61 | 1.61 | 222,0 | 278,74 | | |
| 35 | 100 | G 1 1/4 | 50 | 48 | 59 | 37,5 | 92 | 51 | 20 | 65 | 50 | 50 | 470 | 208,00 | FI-DGWESV-35LR-WD-B-W66 | |
| 1.38 | 1450 | | 1.97 | 1.89 | 2.32 | 1.48 | 3.62 | 2.01 | .79 | 2.56 | 1.97 | 1.97 | 347,8 | 457,60 | | |
| 42 | 100 | G 1 1/2 | 55 | 53 | 65 | 42 | 102 | 56 | 22 | 75 | 55 | 60 | 540 | 294,00 | FI-DGWESV-42LR-WD-B-W66 | |
| 1.65 | 1450 | | 2.17 | 2.09 | 2.56 | 1.65 | 4.02 | 2.20 | .87 | 2.95 | 2.17 | 2.36 | 399,6 | 646,80 | | |
| 6 | 400 | G 1/4 | 19 | 25 | 33 | 18 | 41 | 22 | 12 | 27 | 19 | 17 | 50 | 17,40 | FI-DGWESV-06SR-WD-B-W66 | |
| .24 | 5800 | | .75 | .98 | 1.30 | .71 | 1.61 | .87 | .47 | 1.06 | .75 | .67 | 37,0 | 38,28 | | |
| S | 8 | 400 | G 1/4 | 19 | 25 | 33 | 18 | 41 | 22 | 12 | 27 | 19 | 19 | 50 | 18,00 | FI-DGWESV-08SR-WD-B-W66 |
| | .31 | 5800 | | .75 | .98 | 1.30 | .71 | 1.61 | .87 | .47 | 1.06 | .75 | .75 | 37,0 | 39,60 | |
| | 10 | 400 | G 3/8 | 22 | 27 | 36 | 19,5 | 46 | 25 | 12 | 30 | 22 | 22 | 80 | 24,20 | FI-DGWESV-10SR-WD-B-W66 |
| | .39 | 5800 | | .87 | 1.06 | 1.42 | .77 | 1.81 | .98 | .47 | 1.18 | .87 | .87 | 59,2 | 53,24 | |
| | 12 | 400 | G 3/8 | 22 | 28 | 37 | 20,5 | 48 | 27 | 12 | 32 | 24 | 24 | 80 | 28,80 | FI-DGWESV-12SR-WD-B-W66 |
| | .47 | 5800 | | .87 | 1.10 | 1.46 | .81 | 1.89 | 1.06 | .47 | 1.26 | .94 | .94 | 59,2 | 63,36 | |
| | 14 | 400 | G 1/2 | 27 | 32 | 42 | 24 | 55 | 30 | 14 | 36 | 27 | 30 | 120 | 38,00 | FI-DGWESV-14SR-WD-B-W66 |
| | .55 | 5800 | | 1.06 | 1.26 | 1.65 | .94 | 2.17 | 1.18 | .55 | 1.42 | 1.06 | 1.18 | 88,8 | 83,60 | |
| | 16 | 400 | G 1/2 | 27 | 34 | 44 | 25,5 | 59 | 33 | 14 | 40 | 32 | 30 | 120 | 52,80 | FI-DGWESV-16SR-WD-B-W66 |
| | .63 | 5800 | | 1.06 | 1.34 | 1.73 | 1.00 | 2.32 | 1.30 | .55 | 1.57 | 1.26 | 1.18 | 88,8 | 116,16 | |
| | 20 | 250 | G 3/4 | 32 | 38 | 49 | 27,5 | 66 | 35 | 16 | 45 | 36 | 36 | 180 | 74,00 | FI-DGWESV-20SR-WD-B-W66 |
| | .79 | 3625 | | 1.26 | 1.50 | 1.93 | 1.08 | 2.60 | 1.38 | .63 | 1.77 | 1.42 | 1.42 | 133,2 | 162,80 | |
| | 25 | 250 | G 1 | 40 | 45 | 57 | 33 | 78 | 41 | 18 | 55 | 41 | 46 | 300 | 128,00 | FI-DGWESV-25SR-WD-B-W66 |
| | .98 | 3625 | | 1.57 | 1.77 | 2.24 | 1.30 | 3.07 | 1.61 | .71 | 2.17 | 1.61 | 1.81 | 222,0 | 281,60 | |
| | 30 | 250 | G 1 1/4 | 50 | 52 | 65 | 38,5 | 92 | 51 | 20 | 65 | 50 | 50 | 470 | 214,00 | FI-DGWESV-30SR-WD-B-W66 |
| 1.18 | 3625 | | 1.97 | 2.05 | 2.56 | 1.52 | 3.62 | 2.01 | .79 | 2.56 | 1.97 | 1.97 | 347,8 | 470,80 | | |
| 38 | 250 | G 1 1/2 | 55 | 59 | 74 | 43 | 102 | 56 | 22 | 75 | 55 | 60 | 560 | 298,00 | FI-DGWESV-38SR-WD-B-W66 | |
| 1.50 | 3625 | | 2.17 | 2.32 | 2.91 | 1.69 | 4.02 | 2.20 | .87 | 2.95 | 2.17 | 2.36 | 414,4 | 655,60 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).

Male stud acc. to ISO 1179-2 (Type E)

Port acc. to ISO 1179-1

Torque recommendations for Steel mating material.

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

Spare Parts / Accessories

- Profile Sealing Ring Type **WDG** Page 206

Maximum Number of Revolutions per Minute for Permanent Operation

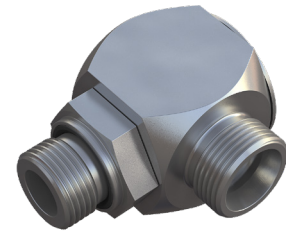
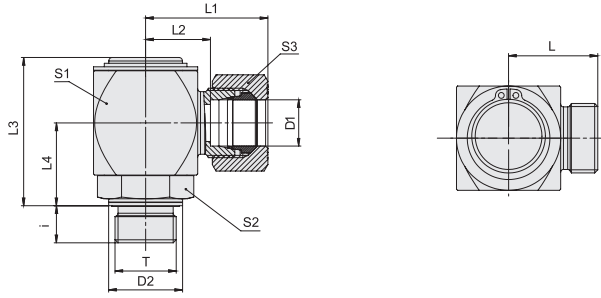
| Dimension S1 | (mm) | 27 | 30 | 32 | 36 | 40 | 45 | 55 | 65 | 75 |
|------------------------|------|------|------|------|------|------|------|------|------|------|
| | (in) | 1.06 | 1.18 | 1.26 | 1.42 | 1.57 | 1.77 | 2.17 | 2.56 | 2.95 |
| Revolutions Per Minute | | 6 | 3 | 3 | 1 | 0,6 | 0,5 | 0,4 | 0,2 | 0,2 |

Higher number of revolutions per minute possible when used temporarily / non-permanently.
Recommendations for use with hydraulic oil at a static working pressure not exceeding 200 bar / 2900 PSI.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended. Please contact STAUFF prior to the assembly for further information.



Swivel Elbow
Type FI-DGWESV-...-M-WD • Series L / S



Profile Sealing Ring

Metric Parallel Thread

| Series | Tube OD (mm/in) | PN (bar/psi) | Dimensions (mm/in) | | | | | | | | | | Torque (N·m/lb·ft) Ca. | Weight (kg/lbs) Ca. per 100 ² | Ordering Codes ³ | |
|--------|--------------------|-----------------|-----------------------|------|------|------|----------------|----------------|----------------|----------------|------|------|---------------------------|--|-----------------------------|-------------------------------|
| | | | D1 | T | D2 | L | L ¹ | L ² | L ³ | L ⁴ | i | S1 | | | | S2 |
| L | 6 | 250 | M 10 x 1 | 14 | 23,5 | 31,5 | 16,5 | 40 | 21 | 8 | 27 | 19 | 14 | 18 | 15,60 | FI-DGWESV-06LM-WD-B-W66 |
| | .24 | 3625 | | .55 | .93 | 1.24 | .65 | 1.57 | .83 | .31 | 1.06 | .75 | .55 | 13.32 | 34.32 | |
| | 6 | 250 | M 12 x 1,5 | 17 | 23,5 | 31,5 | 16,5 | 41 | 22 | 12 | 27 | 19 | 14 | 25 | 16,00 | FI-DGWESV-06LM12x1,5-WD-B-W66 |
| | .24 | 3625 | | .67 | .93 | 1.24 | .65 | 1.61 | .87 | .47 | 1.06 | .75 | .55 | 18.50 | 35.20 | |
| | 8 | 250 | M 12 x 1,5 | 17 | 23,5 | 31,5 | 16,5 | 41 | 22 | 12 | 27 | 19 | 17 | 25 | 16,80 | FI-DGWESV-08LM-WD-B-W66 |
| | .31 | 3625 | | .67 | .93 | 1.24 | .65 | 1.61 | .87 | .47 | 1.06 | .75 | .67 | 18.50 | 36.96 | |
| | 8 | 250 | M 14 x 1,5 | 19 | 25 | 33 | 18 | 46 | 25 | 12 | 30 | 22 | 17 | 45 | 23,30 | FI-DGWESV-08LM14x1,5-WD-B-W66 |
| | .31 | 3625 | | .75 | .98 | 1.30 | .71 | 1.81 | .98 | .47 | 1.18 | .87 | .67 | 33.30 | 51.26 | |
| | 10 | 250 | M 14 x 1,5 | 19 | 26 | 34 | 19 | 46 | 25 | 12 | 30 | 22 | 19 | 45 | 23,00 | FI-DGWESV-10LM-WD-B-W66 |
| | .39 | 3625 | | .75 | 1.02 | 1.34 | .75 | 1.81 | .98 | .47 | 1.18 | .87 | .75 | 33.30 | 50.60 | |
| | 10 | 250 | M 16 x 1,5 | 22 | 27 | 35 | 20 | 48 | 27 | 12 | 32 | 24 | 19 | 60 | 24,80 | FI-DGWESV-10LM16x1,5-WD-B-W66 |
| | .39 | 3625 | | .87 | 1.06 | 1.38 | .79 | 1.89 | 1.06 | .47 | 1.26 | .94 | .75 | 44.40 | 54.56 | |
| | 12 | 250 | M 16 x 1,5 | 22 | 27 | 35 | 20 | 48 | 27 | 12 | 32 | 24 | 22 | 60 | 27,50 | FI-DGWESV-12LM-WD-B-W66 |
| | .47 | 3625 | | .87 | 1.06 | 1.38 | .79 | 1.89 | 1.06 | .47 | 1.26 | .94 | .87 | 44.40 | 60.50 | |
| | 12 | 250 | M 18 x 1,5 | 24 | 29 | 37 | 22 | 55 | 30 | 12 | 36 | 27 | 22 | 100 | 39,20 | FI-DGWESV-12LM18x1,5-WD-B-W66 |
| | .47 | 3625 | | .94 | 1.14 | 1.46 | .87 | 2.17 | 1.18 | .47 | 1.42 | 1.06 | .87 | 74.00 | 86.24 | |
| | 15 | 250 | M 18 x 1,5 | 24 | 30 | 38 | 23 | 55 | 30 | 12 | 36 | 27 | 27 | 100 | 39,00 | FI-DGWESV-15LM-WD-B-W66 |
| | .59 | 3625 | | .94 | 1.18 | 1.50 | .91 | 2.17 | 1.18 | .47 | 1.42 | 1.06 | 1.06 | 74.00 | 85.80 | |
| | 15 | 250 | M 22 x 1,5 | 27 | 32 | 40 | 25 | 59 | 33 | 14 | 40 | 32 | 27 | 125 | 52,50 | FI-DGWESV-15LM22x1,5-WD-B-W66 |
| | .59 | 3625 | | 1.06 | 1.26 | 1.57 | .98 | 2.32 | 1.30 | .55 | 1.57 | 1.26 | 1.06 | 92.50 | 115.50 | |
| 18 | 160 | M 22 x 1,5 | 27 | 32 | 41 | 24,5 | 59 | 33 | 14 | 40 | 32 | 32 | 125 | 53,50 | FI-DGWESV-18LM-WD-B-W66 | |
| .71 | 2320 | | 1.06 | 1.26 | 1.61 | .96 | 2.32 | 1.30 | .55 | 1.57 | 1.26 | 1.26 | 92.50 | 117.70 | | |
| 22 | 160 | M 26 x 1,5 | 32 | 36,5 | 45,5 | 29 | 66 | 35 | 16 | 45 | 36 | 36 | 180 | 70,00 | FI-DGWESV-22LM-WD-B-W66 | |
| .87 | 2320 | | 1.26 | 1.44 | 1.79 | 1.14 | 2.60 | 1.38 | .63 | 1.77 | 1.42 | 1.42 | 133.20 | 154.00 | | |
| 28 | 100 | M 33 x 2 | 40 | 41,5 | 51 | 34 | 78 | 41 | 18 | 55 | 41 | 41 | 300 | 128,00 | FI-DGWESV-28LM-WD-B-W66 | |
| 1.10 | 1450 | | 1.57 | 1.63 | 2.01 | 1.34 | 3.07 | 1.61 | .71 | 2.17 | 1.61 | 1.61 | 222.00 | 281.60 | | |
| 35 | 100 | M 42 x 2 | 50 | 48,5 | 59,5 | 38 | 92 | 50 | 20 | 65 | 50 | 50 | 450 | 206,00 | FI-DGWESV-35LM-WD-B-W66 | |
| 1.38 | 1450 | | 1.97 | 1.91 | 2.34 | 1.50 | 3.62 | 1.97 | .79 | 2.56 | 1.97 | 1.97 | 333.00 | 453.20 | | |
| 42 | 100 | M 48 x 2 | 55 | 53,5 | 65,5 | 42,5 | 102 | 56 | 22 | 75 | 55 | 60 | 540 | 294,00 | FI-DGWESV-42LM-WD-B-W66 | |
| 1.65 | 1450 | | 2.17 | 2.11 | 2.58 | 1.67 | 4.02 | 2.20 | .87 | 2.95 | 2.17 | 2.36 | 399.60 | 646.80 | | |
| S | 6 | 400 | M 12 x 1,5 | 17 | 25,5 | 33,5 | 18,5 | 41 | 22 | 12 | 27 | 19 | 17 | 35 | 17,20 | FI-DGWESV-06SM-WD-B-W66 |
| | .24 | 5800 | | .67 | 1.00 | 1.32 | .73 | 1.61 | .87 | .47 | 1.06 | .75 | .67 | 25.90 | 37.84 | |
| | 8 | 400 | M 14 x 1,5 | 19 | 25,5 | 33,5 | 18,5 | 41 | 22 | 12 | 27 | 19 | 19 | 55 | 18,20 | FI-DGWESV-08SM-WD-B-W66 |
| | .31 | 5800 | | .75 | 1.00 | 1.32 | .73 | 1.61 | .87 | .47 | 1.06 | .75 | .75 | 40.70 | 40.04 | |
| | 10 | 400 | M 16 x 1,5 | 22 | 27 | 36 | 19,5 | 46 | 25 | 12 | 30 | 22 | 22 | 70 | 23,80 | FI-DGWESV-10SM-WD-B-W66 |
| | .39 | 5800 | | .87 | 1.06 | 1.42 | .77 | 1.81 | .98 | .47 | 1.18 | .87 | .87 | 51.80 | 52.36 | |
| | 12 | 400 | M 18 x 1,5 | 24 | 28 | 37 | 20,5 | 48 | 27 | 12 | 32 | 24 | 24 | 90 | 28,20 | FI-DGWESV-12SM-WD-B-W66 |
| | .47 | 5800 | | .94 | 1.10 | 1.46 | .81 | 1.89 | 1.06 | .47 | 1.26 | .94 | .94 | 66.60 | 62.04 | |
| | 14 | 400 | M 20 x 1,5 | 26 | 32 | 42 | 24 | 55 | 30 | 14 | 36 | 27 | 30 | 125 | 45,00 | FI-DGWESV-14SM-WD-B-W66 |
| | .55 | 5800 | | 1.02 | 1.26 | 1.65 | .94 | 2.17 | 1.18 | .55 | 1.42 | 1.06 | 1.18 | 92.50 | 99.00 | |
| | 16 | 400 | M 22 x 1,5 | 27 | 34 | 44 | 25,5 | 59 | 33 | 14 | 40 | 32 | 30 | 135 | 53,60 | FI-DGWESV-16SM-WD-B-W66 |
| | .63 | 5800 | | 1.06 | 1.34 | 1.73 | 1.00 | 2.32 | 1.30 | .55 | 1.57 | 1.26 | 1.18 | 99.90 | 117.92 | |
| | 20 | 250 | M 27 x 2 | 32 | 38,5 | 49,5 | 28 | 66 | 35 | 16 | 45 | 36 | 36 | 180 | 71,50 | FI-DGWESV-20SM-WD-B-W66 |
| | .79 | 3625 | | 1.26 | 1.52 | 1.95 | 1.10 | 2.60 | 1.38 | .63 | 1.77 | 1.42 | 1.42 | 133.20 | 157.30 | |
| | 25 | 250 | M 33 x 2 | 40 | 45,5 | 57,5 | 33,5 | 78 | 41 | 18 | 55 | 41 | 46 | 310 | 128,20 | FI-DGWESV-25SM-WD-B-W66 |
| | .98 | 3625 | | 1.57 | 1.79 | 2.26 | 1.32 | 3.07 | 1.61 | .71 | 2.17 | 1.61 | 1.81 | 229.40 | 282.04 | |
| 30 | 250 | M 42 x 2 | 50 | 52,5 | 65,5 | 39 | 92 | 51 | 20 | 65 | 50 | 50 | 470 | 210,00 | FI-DGWESV-30SM-WD-B-W66 | |
| 1.18 | 3625 | | 1.97 | 2.07 | 2.58 | 1.54 | 3.62 | 2.01 | .79 | 2.56 | 1.97 | 1.97 | 347.80 | 462.00 | | |
| 38 | 250 | M 48 x 2 | 55 | 59,5 | 74,5 | 43,5 | 102 | 56 | 22 | 75 | 55 | 60 | 800 | 300,00 | FI-DGWESV-38SM-WD-B-W66 | |
| 1.50 | 3625 | | 2.17 | 2.34 | 2.93 | 1.71 | 4.02 | 2.20 | .87 | 2.95 | 2.17 | 2.36 | 592.00 | 660.00 | | |

Ordering Codes

FI-DGWESV-10*L*M*-WD*-B*-W66*-MS

- * Swivel Elbow **FI-DGWESV**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Light Series **L**
Heavy Series **S**
- * Thread Type Metric Parallel Thread **M**
- If required, please indicate special sizes, e.g. M27x2!
- * Seal Type Profile Sealing Ring **-WD**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, zinc-plated and thick-film-passivated **-W66**

Please contact STAUFF for alternative materials and surface finishings.

- * Assembling / Kitting Fitting body only **—**
- Fitting body supplied with cutting ring and union nut **-MS**
- Fitting body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35

Spare Parts / Accessories

- Profile Sealing Ring Type **WDG** Page 206

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Fitting body only.

Standard seal material is NBR (Buna-N®).

Male stud acc. to ISO 9974-2 (Type E)

Port acc. to ISO 9974-1

Torque recommendations for Steel mating material.

Maximum Number of Revolutions per Minute for Permanent Operation

| Dimension S1 | (mm) | 27 | 30 | 32 | 36 | 40 | 45 | 55 | 65 | 75 |
|------------------------|------|------|------|------|------|------|------|------|------|------|
| | (in) | 1.06 | 1.18 | 1.26 | 1.42 | 1.57 | 1.77 | 2.17 | 2.56 | 2.95 |
| Revolutions Per Minute | | 6 | 3 | 3 | 1 | 0,6 | 0,5 | 0,4 | 0,2 | 0,2 |









Higher number of revolutions per minute possible when used temporarily / non-permanently. Recommendations for use with hydraulic oil at a static working pressure not exceeding 200 bar / 2900 PSI.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.



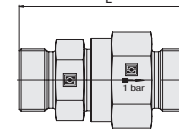
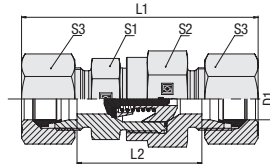


| | | |
|---|--|---------|
|  | Check Valve FI-RV | 176 |
| | Male Stud Check Valve (Flow from Stud End) FI-RVV | 178-179 |
|  | Whitworth Parallel Pipe Thread (BSPP) / Profile Sealing Ring FI-RVV-...-R-WD | 178 |
|  | Metric Parallel Thread / Profile Sealing Ring FI-RVV-...-M-WD | 179 |
| | Male Stud Check Valve (Flow to Stud End) FI-RVZ | 180-181 |
|  | Whitworth Parallel Pipe Thread (BSPP) / Profile Sealing Ring FI-RVZ-...-R-WD | 180 |
|  | Metric Parallel Thread / Profile Sealing Ring FI-RVZ-...-M-WD | 181 |
| | Female Stud Check Valve FI-RVI | 182 |
|  | Female Whitworth Parallel Pipe Thread (BSPP) FI-RVI-...-R | 182 |
|  | Check Valve Installation Kit FI-VES | 183 |
|  | Alternating Valve FI-WV | 184 |

Check Valve
Type FI-RV • Series L / S



Standard Opening Pressure: 1 bar / 14.5 PSI



Ordering Codes

***FI-RV*-10*L*-W3*-1*-MS**

- * Check Valve **FI-RV**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
Light Series
Heavy Series **S**
- * Material Code **-W3**
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Opening Pressure **1**
1 bar / 14.5 PSI
Contact STAUFF for alternative opening pressures.
- * Assembling / Kitting **—**
Valve body only
- MS**
Valve body supplied with cutting rings and union nuts
- MSV**
Valve body supplied with soft-sealing cutting rings and union nuts

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

| Series | Tube OD PN | | Dimensions | | | | | | Weight (^{kg} / _{lbs}) ca. per 100 ² | Ordering Codes ³ | |
|--------|---|--|--|------|------|------|------|------|--|-----------------------------|----------------|
| | (^{mm} / _{in}) D1 | (^{bar} / _{PSI}) L | (^{mm} / _{in}) L1 ¹ | L2 | S1 | S2 | S3 | | | | |
| L | 6 | 400 | 52 | 67 | 38 | 22 | 27 | 14 | 11,93 | FI-RV-06L-W3-1 | |
| | .24 | 5800 | 2,05 | 2,64 | 1,50 | .87 | 1,06 | .55 | 26,24 | | |
| | 8 | 400 | 52 | 67 | 38 | 22 | 27 | 17 | 12,41 | FI-RV-08L-W3-1 | |
| | .31 | 5800 | 2,05 | 2,64 | 1,50 | .87 | 1,06 | .67 | 27,30 | | |
| | 10 | 400 | 52 | 67 | 38 | 22 | 27 | 19 | 11,65 | FI-RV-10L-W3-1 | |
| | .39 | 5800 | 2,05 | 2,64 | 1,50 | .87 | 1,06 | .75 | 25,64 | | |
| | 12 | 400 | 53 | 68 | 39 | 22 | 27 | 22 | 12,31 | FI-RV-12L-W3-1 | |
| | .47 | 5800 | 2,09 | 2,68 | 1,54 | .87 | 1,06 | .87 | 27,07 | | |
| | 15 | 400 | 58 | 74 | 44 | 27 | 32 | 27 | 18,29 | FI-RV-15L-W3-1 | |
| | .59 | 5800 | 2,28 | 2,91 | 1,73 | 1,06 | 1,26 | 1,06 | 40,25 | | |
| | 18 | 400 | 63 | 80 | 48 | 27 | 32 | 32 | 22,54 | FI-RV-18L-W3-1 | |
| | .71 | 5800 | 2,48 | 3,15 | 1,89 | 1,06 | 1,26 | 1,26 | 49,59 | | |
| | 22 | 250 | 75 | 92 | 60 | 41 | 46 | 36 | 48,21 | FI-RV-22L-W3-1 | |
| | .87 | 3625 | 2,95 | 3,62 | 2,36 | 1,61 | 1,81 | 1,42 | 106,05 | | |
| | 28 | 250 | 81 | 99 | 66 | 41 | 46 | 41 | 57,90 | FI-RV-28L-W3-1 | |
| | 1.10 | 3625 | 3,19 | 3,90 | 2,60 | 1,61 | 1,81 | 1,61 | 127,38 | | |
| | 35 | 250 | 92 | 114 | 71 | 60 | 70 | 50 | 129,80 | FI-RV-35L-W3-1 | |
| | 1.38 | 3625 | 3,62 | 4,49 | 2,80 | 2,36 | 2,76 | 1,97 | 285,56 | | |
| | 42 | 250 | 87 | 111 | 65 | 60 | 70 | 60 | 122,60 | FI-RV-42L-W3-1 | |
| | 1.65 | 3625 | 3,43 | 4,37 | 2,56 | 2,36 | 2,76 | 2,36 | 269,72 | | |
| | S | 6 | 400 | 56 | 71 | 42 | 22 | 27 | 17 | 13,12 | FI-RV-06S-W3-1 |
| | | .24 | 5800 | 2,20 | 2,80 | 1,65 | .87 | 1,06 | .67 | 28,87 | |
| 8 | | 400 | 52 | 67 | 38 | 22 | 27 | 19 | 11,98 | FI-RV-08S-W3-1 | |
| .31 | | 5800 | 2,05 | 2,64 | 1,50 | .87 | 1,06 | .75 | 26,35 | | |
| 10 | | 400 | 54 | 71 | 39 | 22 | 27 | 22 | 13,20 | FI-RV-10S-W3-1 | |
| .39 | | 5800 | 2,13 | 2,80 | 1,54 | .87 | 1,06 | .87 | 29,04 | | |
| 12 | | 400 | 55 | 72 | 40 | 22 | 27 | 24 | 13,61 | FI-RV-12S-W3-1 | |
| .47 | | 5800 | 2,17 | 2,83 | 1,57 | .87 | 1,06 | .94 | 29,94 | | |
| 14 | | 400 | 62 | 81 | 46 | 27 | 32 | 27 | 19,98 | FI-RV-14S-W3-1 | |
| .55 | | 5800 | 2,44 | 3,19 | 1,81 | 1,06 | 1,26 | 1,06 | 43,96 | | |
| 16 | | 400 | 65 | 84 | 48 | 27 | 32 | 30 | 21,56 | FI-RV-16S-W3-1 | |
| .63 | | 5800 | 2,56 | 3,31 | 1,89 | 1,06 | 1,26 | 1,18 | 47,44 | | |
| 20 | | 400 | 78 | 100 | 57 | 41 | 46 | 36 | 50,20 | FI-RV-20S-W3-1 | |
| .79 | | 5800 | 3,07 | 3,94 | 2,24 | 1,61 | 1,81 | 1,42 | 110,45 | | |
| 25 | | 250 | 81 | 105 | 57 | 41 | 46 | 46 | 52,60 | FI-RV-25S-W3-1 | |
| .98 | | 3625 | 3,19 | 4,13 | 2,24 | 1,61 | 1,81 | 1,81 | 115,72 | | |
| 30 | | 250 | 91 | 117 | 64 | 50 | 55 | 50 | 80,70 | FI-RV-30S-W3-1 | |
| 1.18 | | 3625 | 3,58 | 4,61 | 2,52 | 1,97 | 2,17 | 1,97 | 177,54 | | |
| 38 | | 250 | 99 | 129 | 67 | 60 | 70 | 60 | 136,00 | FI-RV-38S-W3-1 | |
| 1.50 | | 3625 | 3,90 | 5,08 | 2,64 | 2,36 | 2,76 | 2,36 | 299,20 | | |

¹ Approximate dimension in assembled condition.

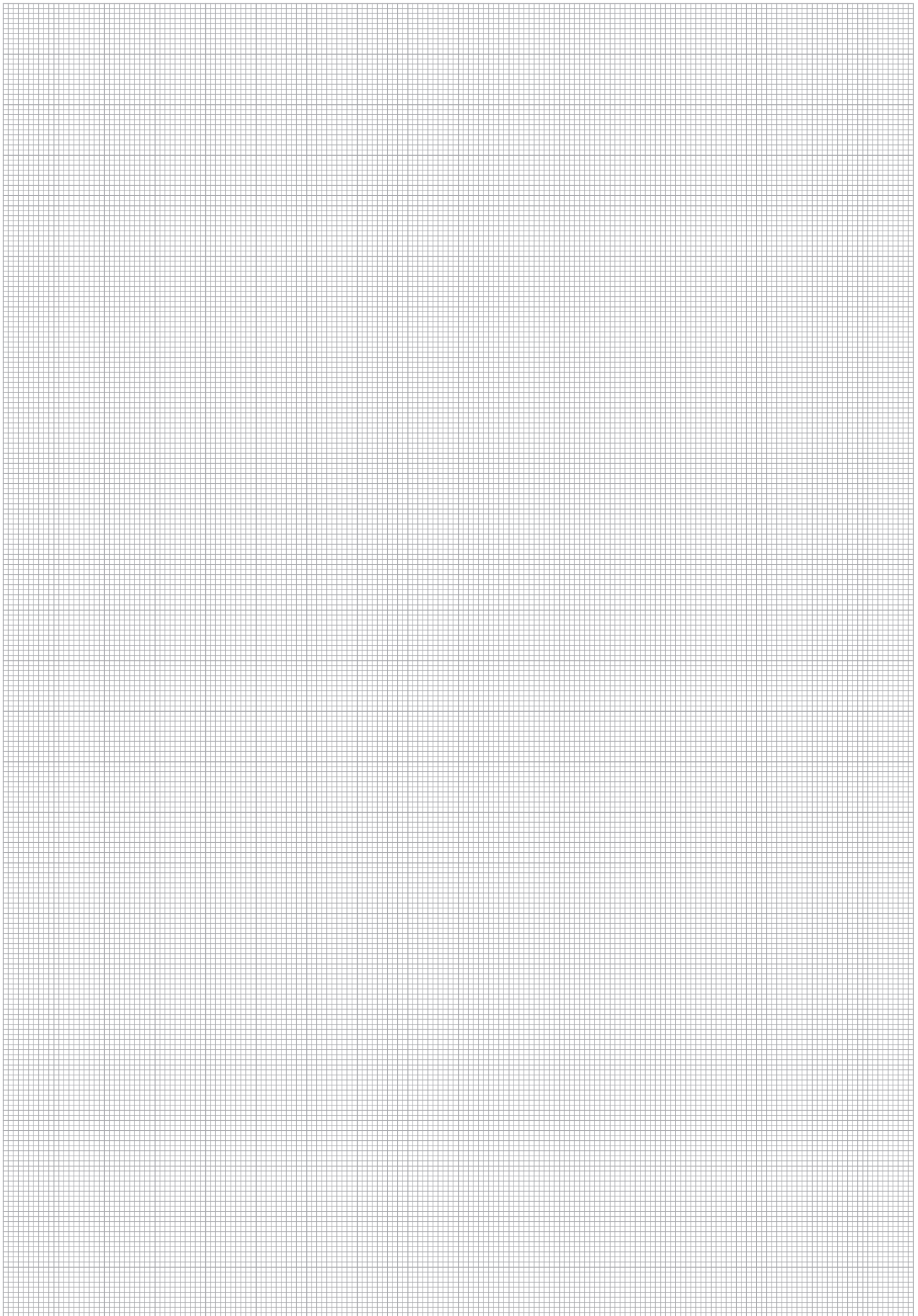
² Weight excluding cutting rings and union nuts.

³ Standard scope of delivery: Valve body only.

Please note: Internal seals are made of FKM (Viton®).

In order to make sure that the valves will be suitable for your particular application, please contact STAUFF with details on media, operating pressure, pressure peaks, operating temperature and the expected frequency of valve actuations.

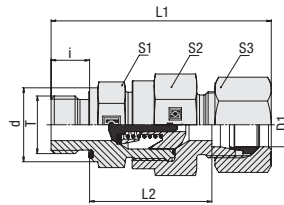




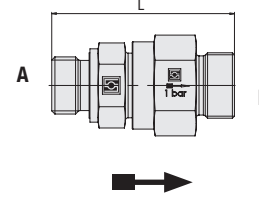
M



Male Stud Check Valve Type FI-RVV-...-R-WD ■ Series L / S



Flow Direction: A > B (from Stud End)
Standard Opening Pressure: 1 bar / 14.5 PSI



Ordering Codes

- *FI-RVV*-10*L*R*-WD*-B*-W3*-1*-MS**
- * Male Stud Check Valve (Flow from Stud End) FI-RVV**
- * Outside Tube Diameter D1 (in mm) -10**
- * Series Light Series L Heavy Series S**
- * Thread Type Whitworth Parallel Pipe Thread (BSPP) R**
- If required, please indicate special sizes, e.g. R1/8!
- * Seal Type Profile Sealing Ring -WD**
- * Seal Material NBR (Buna-N®) -B FKM (Viton®) -V EPDM -E**
- * Material Code Steel, zinc/nickel-plated -W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Opening Pressure 1 bar / 14.5 PSI 1**
- Contact STAUFF for alternative opening pressures.
- * Assembling / Kitting Valve body only —**
- Valve body supplied with cutting ring and union nut **-MS**
- Valve body supplied with soft-sealing cutting ring and union nut **-MSV**

Whitworth Parallel Pipe Thread (BSPP)

Profile Sealing Ring

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | | | Torque (Nm/ft-lb) | Weight (kg/lbs) ca. | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|-------|-------|-------|-----------------|------|------|------|-------|--------|------------------------|------------------------|-----------------------------|
| | | | Thread | T | d | L | L1 ¹ | L2 | i | S1 | S2 | S3 | | | |
| L | 6 | 400 | G 1/8 | 13,9 | 51 | 59 | 36 | 8 | 22 | 27 | 14 | 18 | 11,69 | FI-RVV-06LR-WD-B-W3-1 | |
| | .24 | 5800 | G 1/8 | .55 | 2.01 | 2.32 | 1.42 | .31 | .87 | 1.06 | .55 | 13.3 | 25.71 | FI-RVV-08LR-WD-B-W3-1 | |
| | 8 | 400 | G 1/4 | 18,9 | 55 | 63 | 36 | 12 | 22 | 27 | 17 | 30 | 12,54 | FI-RVV-10LR-WD-B-W3-1 | |
| | .31 | 5800 | G 1/4 | .74 | 2.17 | 2.48 | 1.42 | .47 | .87 | 1.06 | .67 | 22.2 | 27.58 | FI-RVV-12LR-WD-B-W3-1 | |
| | 10 | 400 | G 3/8 | 18,9 | 53 | 61 | 34 | 12 | 22 | 27 | 19 | 45 | 11,40 | FI-RVV-15LR-WD-B-W3-1 | |
| | .39 | 5800 | G 3/8 | .74 | 2.09 | 2.40 | 1.34 | .47 | .87 | 1.06 | .75 | 33.3 | 25.08 | FI-RVV-18LR-WD-B-W3-1 | |
| | 12 | 400 | G 1/2 | 21,9 | 58 | 66 | 39 | 12 | 22 | 27 | 22 | 70 | 13,62 | FI-RVV-22LR-WD-B-W3-1 | |
| | .47 | 5800 | G 1/2 | .86 | 2.28 | 2.60 | 1.54 | .47 | .87 | 1.06 | .87 | 51.8 | 29.97 | FI-RVV-28LR-WD-B-W3-1 | |
| | 15 | 400 | G 3/4 | 26,9 | 60 | 68 | 41 | 14 | 27 | 32 | 27 | 90 | 19,68 | FI-RVV-35LR-WD-B-W3-1 | |
| | .59 | 5800 | G 3/4 | 1.06 | 2.36 | 2.68 | 1.61 | .55 | 1.06 | 1.26 | 1.06 | 66.6 | 43.30 | FI-RVV-42LR-WD-B-W3-1 | |
| | 18 | 400 | G 1 | 26,9 | 67 | 76 | 45,5 | 14 | 27 | 32 | 32 | 90 | 22,68 | FI-RVV-48LR-WD-B-W3-1 | |
| | .71 | 5800 | G 1 | 1.06 | 2.64 | 2.99 | 1.79 | .55 | 1.06 | 1.26 | 1.26 | 66.6 | 49.89 | FI-RVV-54LR-WD-B-W3-1 | |
| | 22 | 250 | G 1 1/4 | 31,9 | 77 | 86 | 53,5 | 16 | 41 | 46 | 36 | 180 | 46,49 | FI-RVV-60LR-WD-B-W3-1 | |
| | .87 | 3625 | G 1 1/4 | 1.26 | 3.03 | 3.39 | 2.11 | .63 | 1.61 | 1.81 | 1.42 | 133.2 | 102.28 | FI-RVV-66LR-WD-B-W3-1 | |
| | 28 | 250 | G 1 1/2 | 39,9 | 86 | 95 | 60,5 | 18 | 41 | 46 | 41 | 310 | 59,70 | FI-RVV-72LR-WD-B-W3-1 | |
| | 1.10 | 3625 | G 1 1/2 | 1.57 | 3.39 | 3.74 | 2.38 | .71 | 1.61 | 1.81 | 1.61 | 229.4 | 131.34 | FI-RVV-78LR-WD-B-W3-1 | |
| | 35 | 250 | G 1 3/4 | 49,9 | 97,5 | 108,5 | 67 | 20 | 60 | 70 | 50 | 450 | 132,20 | FI-RVV-84LR-WD-B-W3-1 | |
| | 1.38 | 3625 | G 1 3/4 | 1.96 | 3.84 | 4.27 | 2.64 | .79 | 2.36 | 2.76 | 1.97 | 333.0 | 290.84 | FI-RVV-90LR-WD-B-W3-1 | |
| 42 | 250 | G 2 | 54,9 | 97,5 | 109,5 | 64,5 | 22 | 60 | 70 | 60 | 540 | 137,40 | FI-RVV-96LR-WD-B-W3-1 | | |
| 1.65 | 3625 | G 2 | 2.16 | 3.84 | 4.31 | 2.54 | .87 | 2.36 | 2.76 | 2.36 | 399.6 | 302.28 | FI-RVV-102LR-WD-B-W3-1 | | |
| S | 6 | 400 | G 1/4 | 18,9 | 57 | 65 | 38 | 12 | 22 | 27 | 17 | 55 | 12,95 | FI-RVV-06SR-WD-B-W3-1 | |
| | .24 | 5800 | G 1/4 | .74 | 2.24 | 2.56 | 1.50 | .47 | .87 | 1.06 | .67 | 40.7 | 28.49 | FI-RVV-08SR-WD-B-W3-1 | |
| | 8 | 400 | G 3/8 | 18,9 | 55 | 63 | 36 | 12 | 22 | 27 | 19 | 55 | 12,12 | FI-RVV-10SR-WD-B-W3-1 | |
| | .31 | 5800 | G 3/8 | .74 | 2.17 | 2.48 | 1.42 | .47 | .87 | 1.06 | .75 | 40.7 | 26.66 | FI-RVV-12SR-WD-B-W3-1 | |
| | 10 | 400 | G 1/2 | 21,9 | 57 | 66 | 37,5 | 12 | 22 | 27 | 22 | 80 | 13,32 | FI-RVV-14SR-WD-B-W3-1 | |
| | .39 | 5800 | G 1/2 | .86 | 2.24 | 2.60 | 1.48 | .47 | .87 | 1.06 | .87 | 59.2 | 29.30 | FI-RVV-16SR-WD-B-W3-1 | |
| | 12 | 400 | G 3/4 | 21,9 | 59 | 68 | 39,5 | 12 | 22 | 27 | 24 | 80 | 14,64 | FI-RVV-18SR-WD-B-W3-1 | |
| | .47 | 5800 | G 3/4 | .86 | 2.32 | 2.68 | 1.56 | .47 | .87 | 1.06 | .94 | 59.2 | 32.21 | FI-RVV-20SR-WD-B-W3-1 | |
| | 14 | 400 | G 1 | 26,9 | 64 | 74 | 42 | 14 | 27 | 32 | 27 | 115 | 20,26 | FI-RVV-22SR-WD-B-W3-1 | |
| | .55 | 5800 | G 1 | 1.06 | 2.52 | 2.91 | 1.65 | .55 | 1.06 | 1.26 | 1.06 | 85.1 | 44.57 | FI-RVV-24SR-WD-B-W3-1 | |
| | 16 | 400 | G 1 1/4 | 26,9 | 67 | 77 | 44,5 | 14 | 27 | 32 | 30 | 115 | 21,59 | FI-RVV-26SR-WD-B-W3-1 | |
| | .63 | 5800 | G 1 1/4 | 1.06 | 2.64 | 3.03 | 1.75 | .55 | 1.06 | 1.26 | 1.18 | 85.1 | 47.50 | FI-RVV-28SR-WD-B-W3-1 | |
| | 20 | 400 | G 1 1/2 | 31,9 | 79 | 90 | 52,5 | 16 | 41 | 46 | 36 | 180 | 50,90 | FI-RVV-30SR-WD-B-W3-1 | |
| | .79 | 5800 | G 1 1/2 | 1.26 | 3.11 | 3.54 | 2.07 | .63 | 1.61 | 1.81 | 1.42 | 133.2 | 111.98 | FI-RVV-32SR-WD-B-W3-1 | |
| | 25 | 250 | G 1 3/4 | 39,9 | 83 | 95 | 53 | 18 | 41 | 46 | 46 | 310 | 53,10 | FI-RVV-34SR-WD-B-W3-1 | |
| | .98 | 3625 | G 1 3/4 | 1.57 | 3.27 | 3.74 | 2.09 | .71 | 1.61 | 1.81 | 1.81 | 229.4 | 116.82 | FI-RVV-36SR-WD-B-W3-1 | |
| | 30 | 250 | G 2 | 49,9 | 94 | 107 | 60,5 | 20 | 50 | 55 | 50 | 450 | 86,00 | FI-RVV-38SR-WD-B-W3-1 | |
| | 1.18 | 3625 | G 2 | 1.96 | 3.70 | 4.21 | 2.38 | .79 | 1.97 | 2.17 | 1.97 | 333.0 | 189.20 | FI-RVV-40SR-WD-B-W3-1 | |
| 38 | 250 | G 2 1/4 | 54,9 | 103,5 | 118,5 | 65,5 | 22 | 60 | 70 | 60 | 540 | 143,70 | FI-RVV-42SR-WD-B-W3-1 | | |
| 1.50 | 3625 | G 2 1/4 | 2.16 | 4.07 | 4.67 | 2.58 | .87 | 2.36 | 2.76 | 2.36 | 399.6 | 316.14 | FI-RVV-44SR-WD-B-W3-1 | | |

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

Spare Parts / Accessories

- Profile Sealing Ring
Type **WDG** Page 206

¹ Approximate dimension in assembled condition.
² Weight excluding cutting ring and union nut.
³ Standard scope of delivery: Valve body only.

Male stud acc. to ISO 1179-2 (Type E)
Port acc. to ISO 1179-1

Torque recommendations for Steel mating material.

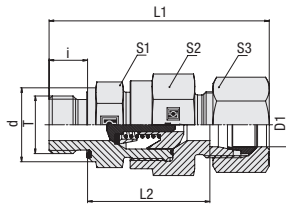
Standard seal material is NBR (Buna-N®).
Please note: Internal seals are made of FKM (Viton®).

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
Please contact STAUFF prior to the assembly for further information.

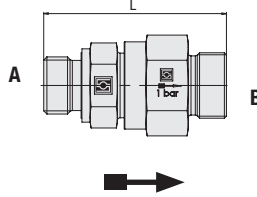
In order to make sure that the valves will be suitable for your particular application, please contact STAUFF with details on media, operating pressure, pressure peaks, operating temperature and the expected frequency of valve actuations.



Male Stud Check Valve Type FI-RVV-...-M-WD • Series L / S



Flow Direction: A > B (from Stud End)
Standard Opening Pressure: 1 bar / 14.5 PSI



Profile Sealing Ring

Metric Parallel Thread

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | | | Torque (N·m/ft·lb) | Weight (kg/lbs) ca. | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|------|-------|----------------|----------------|------|------|------|-------|-----------------------|------------------------|-----------------------------|
| | | | Thread | T | d | L | L ¹ | L ² | i | S1 | S2 | S3 | | | |
| L | 6 | 400 | M 10 x 1 | 13,9 | 51 | 59 | 36 | 8 | 22 | 27 | 14 | 18 | 10,58 | FI-RVV-06LM-WD-B-W3-1 | |
| | .24 | 5800 | | .55 | 2.01 | 2.32 | 1.42 | .31 | .87 | 1.06 | .55 | 13.3 | 23.27 | | |
| | 8 | 400 | M 12 x 1,5 | 16,9 | 55 | 63 | 36 | 12 | 22 | 27 | 17 | 25 | 12,28 | FI-RVV-08LM-WD-B-W3-1 | |
| | .31 | 5800 | | .67 | 2.17 | 2.48 | 1.42 | .47 | .87 | 1.06 | .67 | 18.5 | 27.02 | | |
| | 10 | 400 | M 14 x 1,5 | 18,9 | 53 | 61 | 34 | 12 | 22 | 27 | 19 | 45 | 11,39 | FI-RVV-10LM-WD-B-W3-1 | |
| | .39 | 5800 | | .74 | 2.09 | 2.40 | 1.34 | .47 | .87 | 1.06 | .75 | 33.3 | 25.06 | | |
| | 12 | 400 | M 16 x 1,5 | 21,9 | 58 | 66 | 39 | 12 | 22 | 27 | 22 | 55 | 13,50 | FI-RVV-12LM-WD-B-W3-1 | |
| | .47 | 5800 | | .86 | 2.28 | 2.60 | 1.54 | .47 | .87 | 1.06 | .87 | 40.7 | 29.69 | | |
| | 15 | 400 | M 18 x 1,5 | 23,9 | 60 | 68 | 41 | 12 | 27 | 32 | 27 | 70 | 18,42 | FI-RVV-15LM-WD-B-W3-1 | |
| | .59 | 5800 | | .94 | 2.36 | 2.68 | 1.61 | .47 | 1.06 | 1.26 | 1.06 | 51.8 | 40.52 | | |
| | 18 | 400 | M 22 x 1,5 | 26,9 | 67 | 76 | 45,5 | 14 | 27 | 32 | 32 | 125 | 23,09 | FI-RVV-18LM-WD-B-W3-1 | |
| | .71 | 5800 | | 1.06 | 2.64 | 2.99 | 1.79 | .55 | 1.06 | 1.26 | 1.26 | 92.5 | 50.80 | | |
| | 22 | 250 | M 26 x 1,5 | 31,9 | 77 | 86 | 53,5 | 16 | 41 | 46 | 36 | 180 | 46,70 | FI-RVV-22LM-WD-B-W3-1 | |
| | .87 | 3625 | | 1.26 | 3.03 | 3.39 | 2.11 | .63 | 1.61 | 1.81 | 1.42 | 133.2 | 102.74 | | |
| | 28 | 250 | M 33 x 2 | 39,9 | 86 | 95 | 60,5 | 18 | 41 | 46 | 41 | 310 | 59,70 | FI-RVV-28LM-WD-B-W3-1 | |
| | 1.10 | 3625 | | 1.57 | 3.39 | 3.74 | 2.38 | .71 | 1.61 | 1.81 | 1.61 | 229.4 | 131.34 | | |
| | 35 | 250 | M 42 x 2 | 49,9 | 97,5 | 108,5 | 67 | 20 | 60 | 70 | 50 | 450 | 132,20 | FI-RVV-35LM-WD-B-W3-1 | |
| | 1.38 | 3625 | | 1.96 | 3.84 | 4.27 | 2.64 | .79 | 2.36 | 2.76 | 1.97 | 333.0 | 290.84 | | |
| | 42 | 250 | M 48 x 2 | 54,9 | 97,5 | 109,5 | 64,5 | 22 | 60 | 70 | 60 | 540 | 137,20 | FI-RVV-42LM-WD-B-W3-1 | |
| | 1.65 | 3625 | | 2.16 | 3.84 | 4.31 | 2.54 | .87 | 2.36 | 2.76 | 2.36 | 399.6 | 301.84 | | |
| S | 6 | 400 | M 12 x 1,5 | 16,9 | 57 | 65 | 38 | 12 | 22 | 27 | 17 | 35 | 11,23 | FI-RVV-06SM-WD-B-W3-1 | |
| | .24 | 5800 | | .67 | 2.24 | 2.56 | 1.50 | .47 | .87 | 1.06 | .67 | 25.9 | 24.70 | | |
| | 8 | 400 | M 14 x 1,5 | 18,9 | 55 | 63 | 36 | 12 | 22 | 27 | 19 | 55 | 11,55 | FI-RVV-08SM-WD-B-W3-1 | |
| | .31 | 5800 | | .74 | 2.17 | 2.48 | 1.42 | .47 | .87 | 1.06 | .75 | 40.7 | 25.42 | | |
| | 10 | 400 | M 16 x 1,5 | 21,9 | 57 | 66 | 37,5 | 12 | 22 | 27 | 22 | 70 | 13,29 | FI-RVV-10SM-WD-B-W3-1 | |
| | .39 | 5800 | | .86 | 2.24 | 2.60 | 1.48 | .47 | .87 | 1.06 | .87 | 51.8 | 29.23 | | |
| | 12 | 400 | M 18 x 1,5 | 23,9 | 59 | 68 | 39,5 | 12 | 24 | 27 | 24 | 90 | 15,56 | FI-RVV-12SM-WD-B-W3-1 | |
| | .47 | 5800 | | .94 | 2.32 | 2.68 | 1.56 | .47 | .94 | 1.06 | .94 | 66.6 | 34.22 | | |
| | 14 | 400 | M 20 x 1,5 | 25,9 | 64 | 74 | 42 | 14 | 27 | 32 | 27 | 125 | 19,94 | FI-RVV-14SM-WD-B-W3-1 | |
| | .55 | 5800 | | 1.02 | 2.52 | 2.91 | 1.65 | .55 | 1.06 | 1.26 | 1.06 | 92.5 | 43.87 | | |
| | 16 | 400 | M 22 x 1,5 | 26,9 | 67 | 77 | 44,5 | 14 | 27 | 32 | 30 | 135 | 21,40 | FI-RVV-16SM-WD-B-W3-1 | |
| | .63 | 5800 | | 1.06 | 2.64 | 3.03 | 1.75 | .55 | 1.06 | 1.26 | 1.18 | 99.9 | 47.08 | | |
| | 20 | 400 | M 27 x 2 | 31,9 | 79 | 90 | 52,5 | 16 | 41 | 46 | 36 | 180 | 50,99 | FI-RVV-20SM-WD-B-W3-1 | |
| | .79 | 5800 | | 1.26 | 3.11 | 3.54 | 2.07 | .63 | 1.61 | 1.81 | 1.42 | 133.2 | 112.18 | | |
| | 25 | 250 | M 33 x 2 | 39,9 | 83 | 95 | 53 | 18 | 41 | 46 | 46 | 310 | 53,50 | FI-RVV-25SM-WD-B-W3-1 | |
| | .98 | 3625 | | 1.57 | 3.27 | 3.74 | 2.09 | .71 | 1.61 | 1.81 | 1.81 | 229.4 | 117.70 | | |
| | 30 | 250 | M 42 x 2 | 49,9 | 94 | 107 | 60,5 | 20 | 50 | 55 | 50 | 450 | 86,80 | FI-RVV-30SM-WD-B-W3-1 | |
| | 1.18 | 3625 | | 1.96 | 3.70 | 4.21 | 2.38 | .79 | 1.97 | 2.17 | 1.97 | 333.0 | 190.96 | | |
| | 38 | 250 | M 48 x 2 | 54,9 | 104 | 119 | 66 | 22 | 60 | 70 | 60 | 540 | 144,70 | FI-RVV-38SM-WD-B-W3-1 | |
| | 1.50 | 3625 | | 2.16 | 4.09 | 4.69 | 2.60 | .87 | 2.36 | 2.76 | 2.36 | 399.6 | 318.34 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Valve body only.

Standard seal material is NBR (Buna-N®).

Please note: Internal seals are made of FKM (Viton®).

In order to make sure that the valves will be suitable for your particular application, please contact STAUFF with details on media, operating pressure, pressure peaks, operating temperature and the expected frequency of valve actuations.

Male stud acc. to ISO 9974-2 (Type E)

Port acc. to ISO 9974-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes

FI-RVV-10*L*M*-WD*-B*-W3*-1*-MS

* Male Stud Check Valve (Flow from Stud End) **FI-RVV**

* Outside Tube Diameter D1 (in mm) **-10**

* Series **L**
Light Series
S
Heavy Series

* Thread Type **M**
Metric Parallel Thread

If required, please indicate special sizes, e.g. M12x1.5!

* Seal Type **-WD**
Profile Sealing Ring

* Seal Material **-B**
NBR (Buna-N®)
-V
FKM (Viton®)
-E
EPDM

* Material Code **-W3**
Steel, zinc/nickel-plated

Please contact STAUFF for alternative materials and surface finishings.

* Opening Pressure **1**
1 bar / 14.5 PSI

Contact STAUFF for alternative opening pressures.

* Assembling / Kitting **—**
Fitting body only

-MS
Valve body supplied with cutting ring and union nut

-MSV
Valve body supplied with soft-sealing cutting ring and union nut

Connecting Parts

Cutting Ring
Type **FI-DS** Page 26

Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27

Support Sleeve
Type **FI-VH** Page 28

STAUFF Form Ring
Type **FI-AR** Page 30

Union Nut
Type **FI-M** Page 31

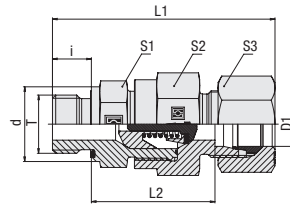
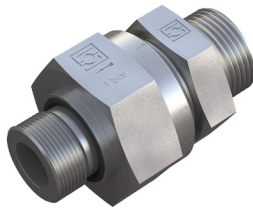
37° Flared Tube Fitting Set
Type **FI-AB** Page 35

Spare Parts / Accessories

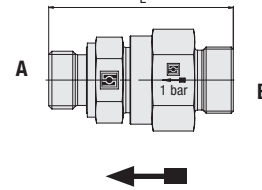
Profile Sealing Ring
Type **WDG** Page 206



Male Stud Check Valve Type FI-RVZ-...-R-WD • Series L / S



Flow Direction: B > A (to Stud End)
Standard Opening Pressure: 1 bar / 14.5 PSI



Whitworth Parallel Pipe Thread (BSPP)

Profile Sealing Ring

Ordering Codes

***FI-RVZ*-10*L*R*-WD*-B*-W3*-1*-MS**

- * Male Stud Check Valve (Flow to Stud End) **FI-RVZ**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Light Series **L**
Heavy Series **S**
- * Thread Type Whitworth Parallel Pipe Thread (BSPP) **R**
- If required, please indicate special sizes, e.g. R1/8!
- * Seal Type Profile Sealing Ring **-WD**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Opening Pressure 1 bar / 14.5 PSI **1**
- Contact STAUFF for alternative opening pressures.
- * Assembling / Kitting Valve body only **—**
Valve body supplied with cutting ring and union nut **-MS**
Valve body supplied with soft-sealing cutting ring and union nut **-MSV**

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | | | Torque (N·m/ft·lb) | Weight (kg/lbs) ca. | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|-------|-------|-------|-----------------|------|------|------|-------|--------|-----------------------|------------------------|-----------------------------|
| | | | Thread | T | d | L | L1 ¹ | L2 | i | S1 | S2 | S3 | | | |
| L | 6 | 400 | G 1/8 | 13,9 | 51 | 59 | 36 | 8 | 22 | 27 | 14 | 18 | 12,07 | FI-RVZ-06LR-WD-B-W3-1 | |
| | .24 | 5800 | | .55 | 2.01 | 2.32 | 1.42 | .31 | .87 | 1.06 | .55 | 13.3 | 26.55 | | |
| | 8 | 400 | | G 1/4 | 18,9 | 55 | 63 | 36 | 12 | 22 | 27 | 17 | 30 | | 12,56 |
| | .31 | 5800 | .74 | | 2.17 | 2.48 | 1.42 | .47 | .87 | 1.06 | .67 | 22.2 | 27.63 | | |
| | 10 | 400 | G 1/4 | | 18,9 | 53 | 61 | 34 | 12 | 22 | 27 | 19 | 45 | 11,38 | FI-RVZ-10LR-WD-B-W3-1 |
| | .39 | 5800 | | .74 | 2.09 | 2.40 | 1.34 | .47 | .87 | 1.06 | .75 | 33.3 | 25.04 | | |
| | 12 | 400 | | G 3/8 | 21,9 | 58 | 66 | 39 | 12 | 22 | 27 | 22 | 70 | 13,64 | |
| | .47 | 5800 | .86 | | 2.28 | 2.60 | 1.54 | .47 | .87 | 1.06 | .87 | 51.8 | 30.00 | | |
| | 15 | 400 | G 1/2 | | 26,9 | 62 | 70 | 41 | 14 | 27 | 32 | 27 | 90 | 19,15 | FI-RVZ-15LR-WD-B-W3-1 |
| | .59 | 5800 | | 1.06 | 2.44 | 2.76 | 1.61 | .55 | 1.06 | 1.26 | 1.06 | 66.6 | 42.12 | | |
| | 18 | 400 | | G 1/2 | 26,9 | 67 | 76 | 45,5 | 14 | 27 | 32 | 32 | 90 | 22,67 | |
| | .71 | 5800 | 1.06 | | 2.64 | 2.99 | 1.79 | .55 | 1.06 | 1.26 | 1.26 | 66.6 | 49.88 | | |
| | 22 | 250 | G 3/4 | | 31,9 | 77 | 86 | 53,5 | 16 | 46 | 41 | 36 | 180 | 45,69 | FI-RVZ-22LR-WD-B-W3-1 |
| | .87 | 3625 | | 1.26 | 3.03 | 3.39 | 2.11 | .63 | 1.81 | 1.61 | 1.42 | 133.2 | 100.53 | | |
| | 28 | 250 | | G 1 | 39,9 | 80 | 89 | 54,5 | 18 | 46 | 41 | 41 | 310 | 52,60 | |
| | 1.10 | 3625 | 1.57 | | 3.15 | 3.50 | 2.15 | .71 | 1.81 | 1.61 | 1.61 | 229.4 | 115.72 | | |
| | 35 | 250 | G 1 1/4 | | 49,9 | 97,5 | 108,5 | 67 | 20 | 60 | 70 | 50 | 450 | 130,70 | FI-RVZ-35LR-WD-B-W3-1 |
| | 1.38 | 3625 | | 1.96 | 3.84 | 4.27 | 2.64 | .79 | 2.36 | 2.76 | 1.97 | 333.0 | 287.54 | | |
| 42 | 250 | G 1 1/2 | | 54,9 | 97,5 | 109,5 | 64,5 | 22 | 60 | 70 | 60 | 540 | 137,40 | FI-RVZ-42LR-WD-B-W3-1 | |
| 1.65 | 3625 | | 2.16 | 3.84 | 4.31 | 2.54 | .87 | 2.36 | 2.76 | 2.36 | 399.6 | 302.28 | | | |
| S | 6 | | 400 | G 1/4 | 18,9 | 57 | 65 | 38 | 12 | 22 | 27 | 17 | 55 | | 12,92 |
| .24 | 5800 | .74 | 2.24 | | 2.56 | 1.50 | .47 | .87 | 1.06 | .67 | 40.7 | 28.42 | | | |
| 8 | 400 | G 1/4 | 18,9 | | 55 | 63 | 36 | 12 | 22 | 27 | 19 | 55 | 12,18 | FI-RVZ-08SR-WD-B-W3-1 | |
| .31 | 5800 | | .74 | 2.17 | 2.48 | 1.42 | .47 | .87 | 1.06 | .75 | 40.7 | 26.80 | | | |
| 10 | 400 | | G 3/8 | 21,9 | 57 | 66 | 37,5 | 12 | 22 | 27 | 22 | 80 | 13,30 | | FI-RVZ-10SR-WD-B-W3-1 |
| .39 | 5800 | .86 | | 2.24 | 2.60 | 1.48 | .47 | .87 | 1.06 | .87 | 59.2 | 29.25 | | | |
| 12 | 400 | G 3/8 | | 21,9 | 59 | 68 | 39,5 | 12 | 22 | 27 | 24 | 80 | 14,64 | FI-RVZ-12SR-WD-B-W3-1 | |
| .47 | 5800 | | .86 | 2.32 | 2.68 | 1.56 | .47 | .87 | 1.06 | .94 | 59.2 | 32.20 | | | |
| 14 | 400 | | G 1/2 | 26,9 | 64 | 74 | 42 | 14 | 27 | 32 | 27 | 115 | 20,23 | | FI-RVZ-14SR-WD-B-W3-1 |
| .55 | 5800 | 1.06 | | 2.52 | 2.91 | 1.65 | .55 | 1.06 | 1.26 | 1.06 | 85.1 | 44.50 | | | |
| 16 | 400 | G 1/2 | | 26,9 | 67 | 77 | 44,5 | 14 | 27 | 32 | 30 | 115 | 21,61 | FI-RVZ-16SR-WD-B-W3-1 | |
| .63 | 5800 | | 1.06 | 2.64 | 3.03 | 1.75 | .55 | 1.06 | 1.26 | 1.18 | 85.1 | 47.55 | | | |
| 20 | 400 | | G 3/4 | 31,9 | 79,5 | 90,5 | 53 | 16 | 46 | 41 | 36 | 180 | 46,63 | | FI-RVZ-20SR-WD-B-W3-1 |
| .79 | 5800 | 1.26 | | 3.13 | 3.56 | 2.09 | .63 | 1.81 | 1.61 | 1.42 | 133.2 | 102.59 | | | |
| 25 | 250 | G 1 | | 39,9 | 83 | 95 | 53 | 18 | 46 | 41 | 46 | 310 | 53,10 | FI-RVZ-25SR-WD-B-W3-1 | |
| .98 | 3625 | | 1.57 | 3.27 | 3.74 | 2.09 | .71 | 1.81 | 1.61 | 1.81 | 229.4 | 116.82 | | | |
| 30 | 250 | | G 1 1/4 | 49,9 | 94 | 107 | 60,5 | 20 | 50 | 55 | 50 | 450 | 85,80 | | FI-RVZ-30SR-WD-B-W3-1 |
| 1.18 | 3625 | 1.96 | | 3.70 | 4.21 | 2.38 | .79 | 1.97 | 2.17 | 1.97 | 333.0 | 188.76 | | | |
| 38 | 250 | G 1 1/2 | | 54,9 | 103,5 | 118,5 | 65,5 | 22 | 60 | 70 | 60 | 540 | 143,40 | FI-RVZ-38SR-WD-B-W3-1 | |
| 1.50 | 3625 | | 2.16 | 4.07 | 4.67 | 2.58 | .87 | 2.36 | 2.76 | 2.36 | 399.6 | 315.48 | | | |

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

Spare Parts / Accessories

- Profile Sealing Ring
Type **WDG** Page 206

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Valve body only.

Standard seal material is NBR (Buna-N®).

Please note: Internal seals are made of FKM (Viton®).

In order to make sure that the valves will be suitable for your particular application, please contact STAUFF with details on media, operating pressure, pressure peaks, operating temperature and the expected frequency of valve actuations.

Male stud acc. to ISO 1179-2 (Type E)

Port acc. to ISO 1179-1

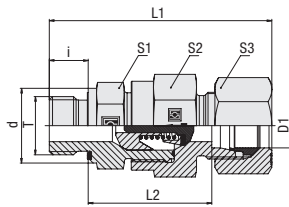
Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

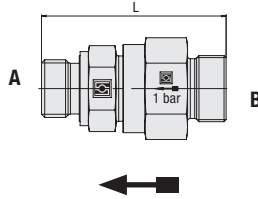
Please contact STAUFF prior to the assembly for further information.



Male Stud Check Valve Type FI-RVZ-...-M-WD • Series L / S



Flow Direction: B > A (to Stud End)
Standard Opening Pressure: 1 bar / 14.5 PSI



Profile Sealing Ring

Metric Parallel Thread

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | | | | | Torque (N·m/ft·lb) | Weight (kg/lbs) ca. | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|-------|-------|-------|----------------|----------------|------|------|-------|--------|-----------------------|------------------------|-----------------------------|
| | | | Thread | T | d | L | L ¹ | L ² | i | S1 | S2 | S3 | | | |
| L | 6 | 400 | M 10 x 1 | 13,9 | 51 | 59 | 36 | 8 | 22 | 27 | 14 | 18 | 12,20 | FI-RVZ-06LM-WD-B-W3-1 | |
| | .24 | 5800 | | .55 | 2.01 | 2.32 | 1.42 | .31 | .87 | 1.06 | .55 | 13.3 | 26.84 | | |
| | 8 | 400 | M 12 x 1,5 | 16,9 | 55 | 63 | 36 | 12 | 22 | 27 | 17 | 25 | 12,31 | FI-RVZ-08LM-WD-B-W3-1 | |
| | .31 | 5800 | | .67 | 2.17 | 2.48 | 1.42 | .47 | .87 | 1.06 | .67 | 18.5 | 27.08 | | |
| | 10 | 400 | M 14 x 1,5 | 18,9 | 53 | 61 | 34 | 12 | 22 | 27 | 19 | 45 | 11,40 | FI-RVZ-10LM-WD-B-W3-1 | |
| | .39 | 5800 | | .74 | 2.09 | 2.40 | 1.34 | .47 | .87 | 1.06 | .75 | 33.3 | 25.08 | | |
| | 12 | 400 | M 16 x 1,5 | 21,9 | 58 | 66 | 39 | 12 | 22 | 27 | 22 | 55 | 14,02 | FI-RVZ-12LM-WD-B-W3-1 | |
| | .47 | 5800 | | .86 | 2.28 | 2.60 | 1.54 | .47 | .87 | 1.06 | .87 | 40.7 | 30.84 | | |
| | 15 | 400 | M 18 x 1,5 | 23,9 | 60 | 68 | 41 | 12 | 27 | 32 | 27 | 70 | 19,06 | FI-RVZ-15LM-WD-B-W3-1 | |
| | .59 | 5800 | | .94 | 2.36 | 2.68 | 1.61 | .47 | 1.06 | 1.26 | 1.06 | 51.8 | 41.92 | | |
| | 18 | 400 | M 22 x 1,5 | 26,9 | 67 | 76 | 45,5 | 14 | 27 | 32 | 32 | 125 | 10,27 | FI-RVZ-18LM-WD-B-W3-1 | |
| | .71 | 5800 | | 1.06 | 2.64 | 2.99 | 1.79 | .55 | 1.06 | 1.26 | 1.26 | 92.5 | 22.59 | | |
| | 22 | 250 | M 26 x 1,5 | 31,9 | 78 | 87 | 54,5 | 16 | 46 | 41 | 36 | 180 | 46,73 | FI-RVZ-22LM-WD-B-W3-1 | |
| | .87 | 3625 | | 1.26 | 3.07 | 3.43 | 2.15 | .63 | 1.81 | 1.61 | 1.42 | 133.2 | 102.81 | | |
| | 28 | 250 | M 33 x 2 | 39,9 | 80 | 89 | 54,5 | 18 | 46 | 41 | 41 | 310 | 52,70 | FI-RVZ-28LM-WD-B-W3-1 | |
| | 1.10 | 3625 | | 1.57 | 3.15 | 3.50 | 2.15 | .71 | 1.81 | 1.61 | 1.61 | 229.4 | 115.94 | | |
| | 35 | 250 | M 42 x 2 | 49,9 | 97,5 | 108,5 | 67 | 20 | 60 | 70 | 50 | 450 | 132,30 | FI-RVZ-35LM-WD-B-W3-1 | |
| | 1.38 | 3625 | | 1.96 | 3.84 | 4.27 | 2.64 | .79 | 2.36 | 2.76 | 1.97 | 333.0 | 291.06 | | |
| | 42 | 250 | M 48 x 2 | 54,9 | 97,5 | 109,5 | 64,5 | 22 | 60 | 70 | 60 | 540 | 137,70 | FI-RVZ-42LM-WD-B-W3-1 | |
| | 1.65 | 3625 | | 2.16 | 3.84 | 4.31 | 2.54 | .87 | 2.36 | 2.76 | 2.36 | 399.6 | 302.94 | | |
| S | 6 | 400 | M 12 x 1,5 | 16,9 | 57 | 65 | 38 | 12 | 22 | 27 | 17 | 35 | 12,66 | FI-RVZ-06SM-WD-B-W3-1 | |
| | .24 | 5800 | | .67 | 2.24 | 2.56 | 1.50 | .47 | .87 | 1.06 | .67 | 25.9 | 27.85 | | |
| | 8 | 400 | M 14 x 1,5 | 18,9 | 55 | 63 | 36 | 12 | 22 | 27 | 19 | 55 | 12,21 | FI-RVZ-08SM-WD-B-W3-1 | |
| | .31 | 5800 | | .74 | 2.17 | 2.48 | 1.42 | .47 | .87 | 1.06 | .75 | 40.7 | 26.87 | | |
| | 10 | 400 | M 16 x 1,5 | 21,9 | 57 | 66 | 37,5 | 12 | 22 | 27 | 22 | 70 | 6,64 | FI-RVZ-10SM-WD-B-W3-1 | |
| | .39 | 5800 | | .86 | 2.24 | 2.60 | 1.48 | .47 | .87 | 1.06 | .87 | 51.8 | 14.61 | | |
| | 12 | 400 | M 18 x 1,5 | 23,9 | 59 | 68 | 39,5 | 12 | 24 | 27 | 24 | 90 | 15,58 | FI-RVZ-12SM-WD-B-W3-1 | |
| | .47 | 5800 | | .94 | 2.32 | 2.68 | 1.56 | .47 | .94 | 1.06 | .94 | 66.6 | 34.28 | | |
| | 14 | 400 | M 20 x 1,5 | 25,9 | 64 | 74 | 42 | 14 | 27 | 32 | 27 | 125 | 19,98 | FI-RVZ-14SM-WD-B-W3-1 | |
| | .55 | 5800 | | 1.02 | 2.52 | 2.91 | 1.65 | .55 | 1.06 | 1.26 | 1.06 | 92.5 | 43.96 | | |
| | 16 | 400 | M 22 x 1,5 | 26,9 | 67 | 77 | 44,5 | 14 | 27 | 32 | 30 | 135 | 21,94 | FI-RVZ-16SM-WD-B-W3-1 | |
| | .63 | 5800 | | 1.06 | 2.64 | 3.03 | 1.75 | .55 | 1.06 | 1.26 | 1.18 | 99.9 | 48.26 | | |
| | 20 | 400 | M 27 x 2 | 31,9 | 78 | 89 | 51,5 | 16 | 46 | 41 | 36 | 180 | 53,51 | FI-RVZ-20SM-WD-B-W3-1 | |
| | .79 | 5800 | | 1.26 | 3.07 | 3.50 | 2.03 | .63 | 1.81 | 1.61 | 1.42 | 133.2 | 117.72 | | |
| | 25 | 250 | M 33 x 2 | 39,9 | 83 | 95 | 53 | 18 | 46 | 41 | 46 | 310 | 53,10 | FI-RVZ-25SM-WD-B-W3-1 | |
| | .98 | 3625 | | 1.57 | 3.27 | 3.74 | 2.09 | .71 | 1.81 | 1.61 | 1.81 | 229.4 | 116.82 | | |
| | 30 | 250 | M 42 x 2 | 49,9 | 94 | 107 | 60,5 | 20 | 50 | 55 | 50 | 450 | 86,00 | FI-RVZ-30SM-WD-B-W3-1 | |
| | 1.18 | 3625 | | 1.96 | 3.70 | 4.21 | 2.38 | .79 | 1.97 | 2.17 | 1.97 | 333.0 | 189.20 | | |
| 38 | 250 | M 48 x 2 | 54,9 | 103,5 | 118,5 | 65,5 | 22 | 60 | 70 | 60 | 540 | 143,90 | FI-RVZ-38SM-WD-B-W3-1 | | |
| 1.50 | 3625 | | 2.16 | 4.07 | 4.67 | 2.58 | .87 | 2.36 | 2.76 | 2.36 | 399.6 | 316.58 | | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Valve body only.

Standard seal material is NBR (Buna-N®).

Please note: Internal seals are made of FKM (Viton®).

In order to make sure that the valves will be suitable for your particular application, please contact STAUFF with details on media, operating pressure, pressure peaks, operating temperature and the expected frequency of valve actuations.

Male stud acc. to ISO 9974-2 (Type E)

Port acc. to ISO 9974-1

Torque recommendations for Steel mating material.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Ordering Codes

***FI-RVZ*-10*L*M*-WD*-B*-W3*-1*-MS**

* Male Stud Check Valve (Flow to Stud End) **FI-RVZ**

* Outside Tube Diameter D1 (in mm) **-10**

* Series Light Series **L**
Heavy Series **S**

* Thread Type Metric Parallel Thread **M**

If required, please indicate special sizes, e.g. M12x1.5!

* Seal Type Profile Sealing Ring **-WD**

* Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**

* Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

* Opening Pressure 1 bar / 14.5 PSI **1**

Contact STAUFF for alternative opening pressures.

* Assembling / Kitting Valve body only **—**

Valve body supplied with cutting ring and union nut **-MS**

Valve body supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

Cutting Ring
Type **FI-DS** Page 26

Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27

Support Sleeve
Type **FI-VH** Page 28

STAUFF Form Ring
Type **FI-AR** Page 30

Union Nut
Type **FI-M** Page 31

37° Flared Tube Fitting Set
Type **FI-AB** Page 35

Spare Parts / Accessories

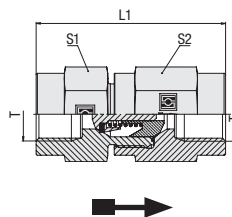
Profile Sealing Ring
Type **WDG** Page 206



Female Stud Check Valve Type FI-RVI-...-R



Standard Opening Pressure: 1 bar / 14.5 PSI



Female Whitworth Parallel Pipe Thread (BSPP)

Ordering Codes

***FI-RVI*-R*1/2*-W3*-1**

* Female Stud Check Valve

FI-RVI

* Thread Type Female Whitworth Parallel Pipe Thread (BSPP)

R

* Thread Size acc. to dimension table

1/2

Please always indicate thread sizes, e.g. 1/2!

* Material Code Steel, zinc/nickel-plated

-W3

Please contact STAUFF for alternative materials and surface finishings.

* Opening Pressure 1 bar / 14.5 PSI

1

Contact STAUFF for alternative opening pressures.

| PN (^{bar} / _{PSI}) | Dimensions (^{mm} / _{in}) | | | | Weight (^{kg} / _{lbs}) ca. per 100 | Ordering Codes |
|---|---|-------|------|------|---|--------------------|
| | Thread T | L1 | S1 | S2 | | |
| 400 | G 1/8 | 53 | 22 | 27 | 17,72 | FI-RVI-R1/8-W3-1 |
| 5800 | | 2.09 | .87 | 1.06 | 38.98 | |
| 400 | G 1/4 | 63 | 22 | 27 | 18,60 | FI-RVI-R1/4-W3-1 |
| 5800 | | 2.48 | .87 | 1.06 | 40.91 | |
| 400 | G 3/8 | 62 | 24 | 27 | 17,69 | FI-RVI-R3/8-W3-1 |
| 5800 | | 2.44 | .94 | 1.06 | 38.92 | |
| 315 | G 1/2 | 73,5 | 32 | 32 | 34,03 | FI-RVI-R1/2-W3-1 |
| 4568 | | 2.89 | 1.26 | 1.26 | 74.87 | |
| 250 | G 3/4 | 94,5 | 41 | 46 | 75,00 | FI-RVI-R3/4-W3-1 |
| 3625 | | 3.72 | 1.61 | 1.81 | 165.00 | |
| 250 | G 1 | 99,5 | 46 | 46 | 84,34 | FI-RVI-R1-W3-1 |
| 3625 | | 3.92 | 1.81 | 1.81 | 185.56 | |
| 250 | G 1 1/4 | 114,5 | 60 | 60 | 168,10 | FI-RVI-R1-1/4-W3-1 |
| 3625 | | 4.51 | 2.36 | 2.36 | 369.82 | |
| 250 | G 1 1/2 | 118,5 | 65 | 70 | 210,90 | FI-RVI-R1-1/2-W3-1 |
| 3625 | | 4.67 | 2.56 | 2.76 | 463.98 | |

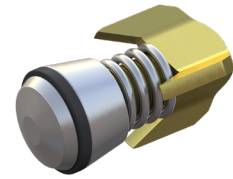
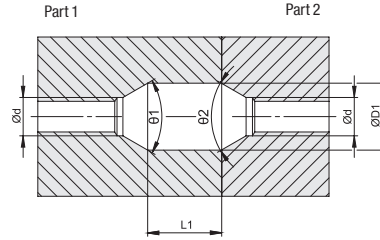
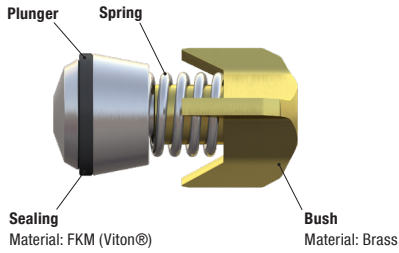
Please note: Internal seals are made of FKM (Viton®).

In order to make sure that the valves will be suitable for your particular application, please contact STAUFF with details on media, operating pressure, pressure peaks, operating temperature and the expected frequency of valve actuations.



Check Valve Installation Kit
Type FI-VES • Design A

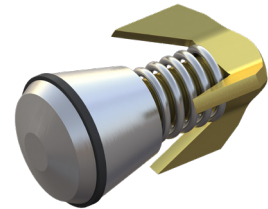
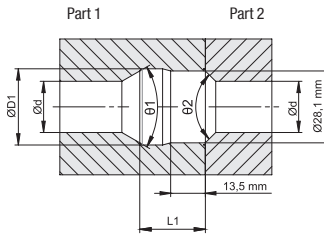
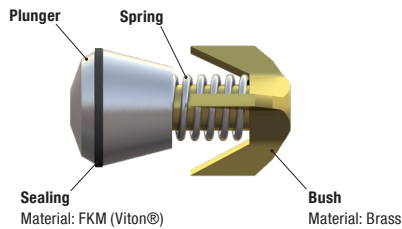
Standard Opening Pressure: 1 bar / 14.5 PSI



| Tube OD (mm/in) | Dimensions (mm/in) | | | | | | Ordering Codes |
|--------------------|-----------------------|-----|-----|------|------|------|----------------|
| | d | D1 | L1 | ø1 | ø2 | | |
| 6 | 8 | 10 | 12 | 7,5 | 13,1 | 14,5 | FI-VES-NW06-1 |
| .24 | .31 | .39 | .47 | .30 | .52 | .57 | |
| 14 | 15 | 16 | 18 | 11,5 | 17,6 | 17 | FI-VES-NW10-1 |
| .55 | .59 | .63 | .71 | .45 | .69 | .67 | |

Check Valve Installation Kit
Type FI-VES • Design B

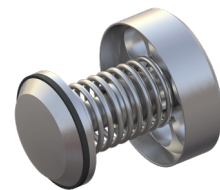
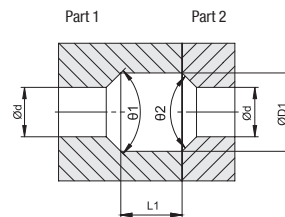
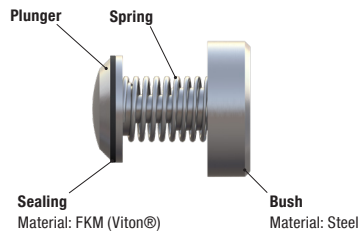
Standard Opening Pressure: 1 bar / 14.5 PSI



| Tube OD (mm/in) | Dimensions (mm/in) | | | | | | Ordering Codes |
|--------------------|-----------------------|-----|------|-----|------|------|----------------|
| | d | D1 | L1 | ø1 | ø2 | | |
| 20 | 22 | 25 | 28 | 20 | 29,8 | 25,7 | FI-VES-NW16-1 |
| .79 | .87 | .98 | 1.10 | .79 | 1.17 | 1.01 | |

Check Valve Installation Kit
Type FI-VES • Design C

Standard Opening Pressure: 1 bar / 14.5 PSI

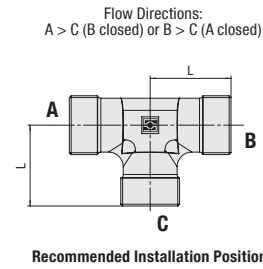
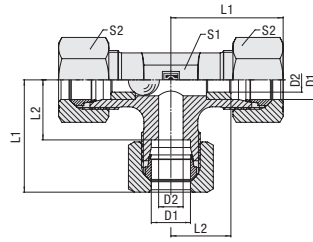


| Tube OD (mm/in) | Dimensions (mm/in) | | | | | | Ordering Codes |
|--------------------|-----------------------|------|------|------|----|----|----------------|
| | d | D1 | L1 | ø1 | ø2 | | |
| 30 | | 24 | 38 | 33 | 90 | 90 | FI-VES-NW25-1 |
| 1.18 | | .94 | 1.50 | 1.30 | | | |
| 35 | 38 | 42 | 29 | 29 | 90 | 90 | FI-VES-NW32-1 |
| 1.38 | 1.50 | 1.65 | 1.14 | 1.14 | | | |

M



Alternating Valve
Type FI-WV ▪ Series L / S



Ordering Codes

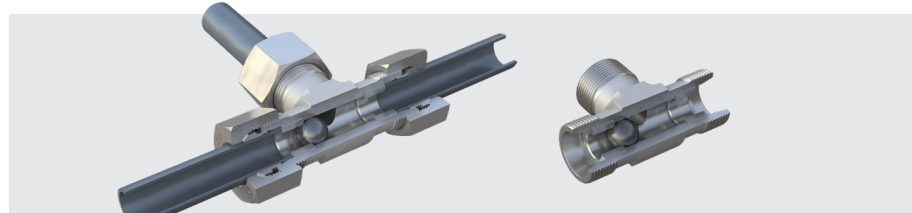
***FI-WV*-10*L*-W3*-MS**

- * Alternating Valve **FI-WV**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series Light Series **L**
Heavy Series **S**
- * Material Code Steel, zinc/nickel-plated **-W3**
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting Valve body only **—**
- Valve body supplied with cutting rings and union nuts **-MS**
- Valve body supplied with soft-sealing cutting rings and union nuts **-MSV**

| Series | Tube OD (mm/in) | PN (bar/PSI) | Dimensions (mm/in) | | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|--------------------|-----------------|-----------------------|------|------|-----------------|-----|------|--|-----------------------------|
| | | | D1 | D2 | L | L1 ¹ | L2 | S1 | | |
| L | 8 | 160 | 4 | 21 | 29 | 14 | 14 | 17 | 5,50 | FI-WV-08L-W3 |
| | .31 | 2320 | .16 | .83 | 1.14 | .55 | .55 | .67 | 12.09 | |
| | 10 | 160 | 6 | 22 | 30 | 15 | 17 | 19 | 7,30 | FI-WV-10L-W3 |
| | .39 | 2320 | .24 | .87 | 1.18 | .59 | .67 | .75 | 16.07 | |
| | 12 | 160 | 8 | 24 | 32 | 17 | 19 | 22 | 10,27 | FI-WV-12L-W3 |
| | .47 | 2320 | .31 | .94 | 1.26 | .67 | .75 | .87 | 22.59 | |
| S | 15 | 160 | 9 | 28 | 36 | 21 | 19 | 27 | 10,95 | FI-WV-15L-W3 |
| | .59 | 2320 | .35 | 1.10 | 1.42 | .83 | .75 | 1.06 | 24.09 | |
| | 6 | 160 | 4 | 23 | 31 | 16 | 14 | 17 | 7,04 | FI-WV-06S-W3 |
| | .24 | 2320 | .16 | .91 | 1.22 | .63 | .55 | .67 | 15.49 | |
| | 8 | 160 | 4 | 24 | 32 | 17 | 17 | 19 | 9,49 | FI-WV-08S-W3 |
| | .31 | 2320 | .16 | .94 | 1.26 | .67 | .67 | .75 | 20.87 | |
| S | 10 | 160 | 6 | 25 | 34 | 17,5 | 19 | 22 | 12,41 | FI-WV-10S-W3 |
| | .39 | 2320 | .24 | .98 | 1.34 | .69 | .75 | .87 | 27.31 | |
| | 12 | 160 | 8 | 29 | 38 | 21,5 | 22 | 24 | 17,10 | FI-WV-12S-W3 |
| | .47 | 2320 | .31 | 1.14 | 1.50 | .85 | .87 | .94 | 37.62 | |
| | 16 | 160 | 10 | 33 | 43 | 24,5 | 24 | 30 | 19,60 | FI-WV-16S-W3 |
| | .63 | 2320 | .39 | 1.30 | 1.69 | .96 | .94 | 1.18 | 43.13 | |

Connecting Parts

- Cutting Ring Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring Type **FI-WDDS** Page 27
- Support Sleeve Type **FI-VH** Page 28
- STAUFF Form Ring Type **FI-AR** Page 30
- Union Nut Type **FI-M** Page 31
- 37° Flared Tube Fitting Set Type **FI-AB** Page 35



¹ Approximate dimension in assembled condition.
² Weight excluding cutting rings and union nuts.
³ Standard scope of delivery: Valve body only.

Please note: Alternating valves have been designed as switching devices for hydraulic fluids, where the non-pressurized connection of the valve is automatically closed off and sealed by a moving ball made of steel.

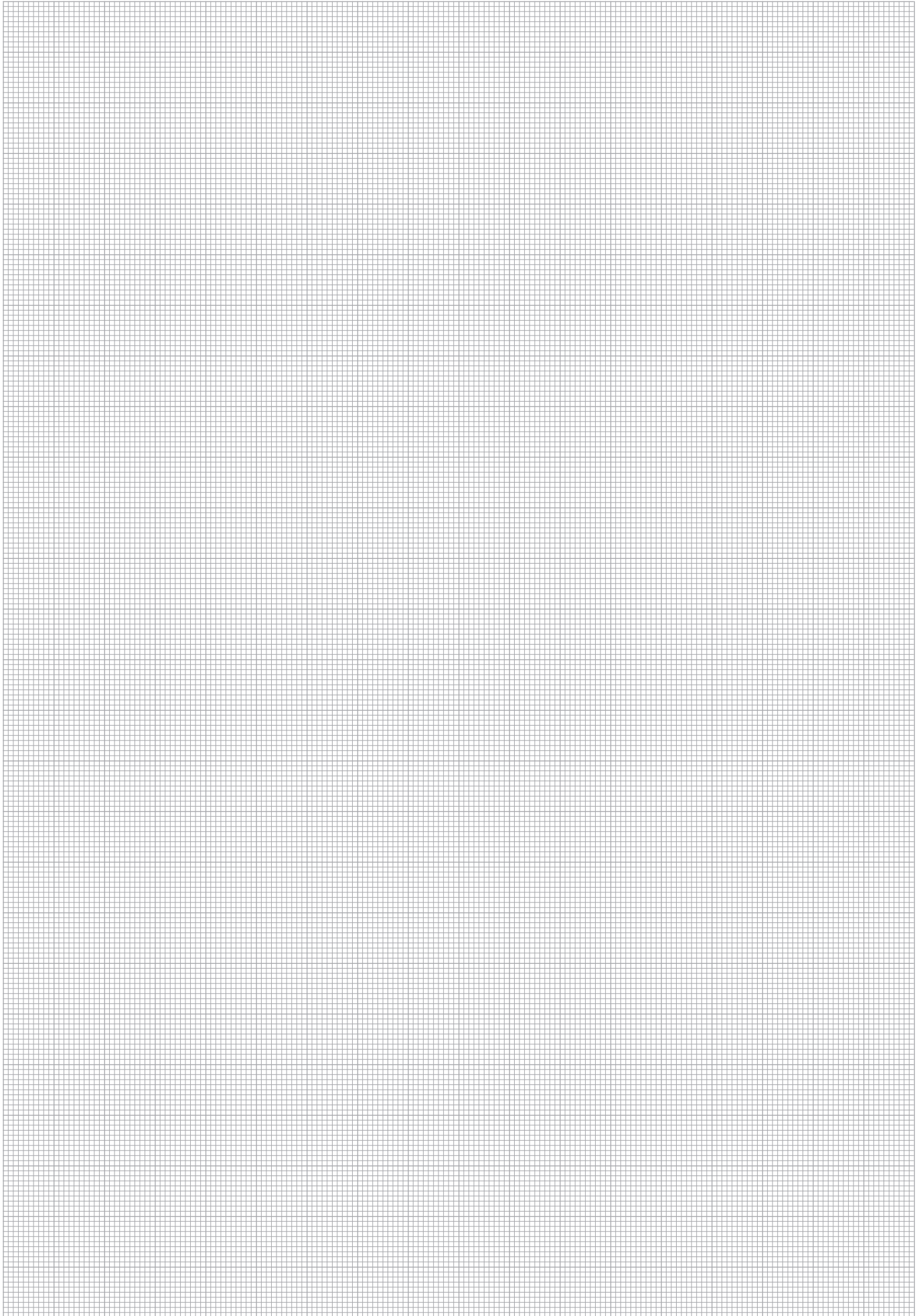
In order to make sure that the valves will be suitable for your particular application, please contact STAUFF with details on media, operating pressure, pressure peaks, operating temperature and the expected frequency of valve actuations.

Alternating valves are only suitable for connections that fit directly against the tube end stop of the valve body. Do not use in combination with 24° weld cone fittings, 24° DKO taper fittings and other types of fittings with no direct contact to the tube end stop of the valve body.

Do not use with compressed air or gas!

M

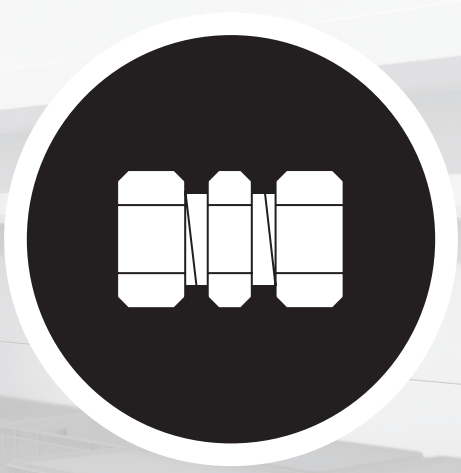




M



Kommissionier-Shuttle WALTER II



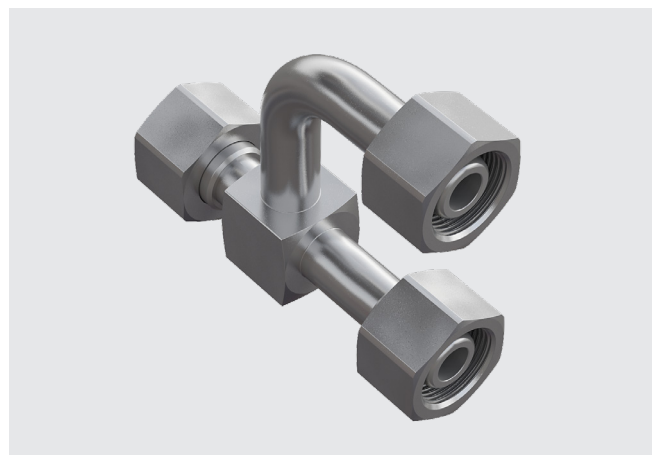
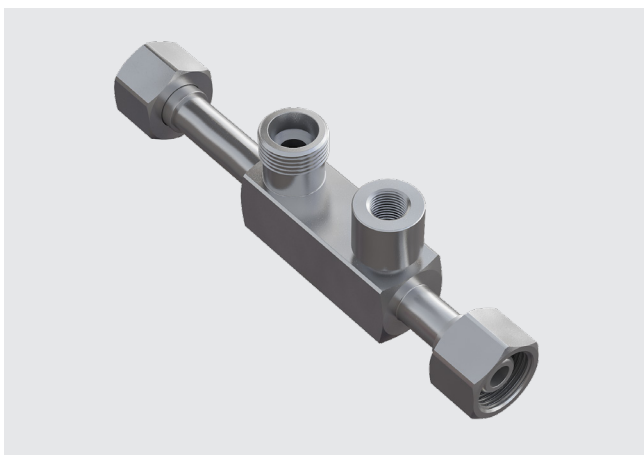
**Custom-Designed Solutions****188**

In addition to a complete range of standard components, STAUFF is also able offer individually designed special solutions according to customer's specifications or based on own developments.

Options include tube connectors with non-standard connection types and combinations, in special lengths and jump sizes or with throttle bores as well as distributors and manifolds in single-piece, soldered, brazed and welded construction.

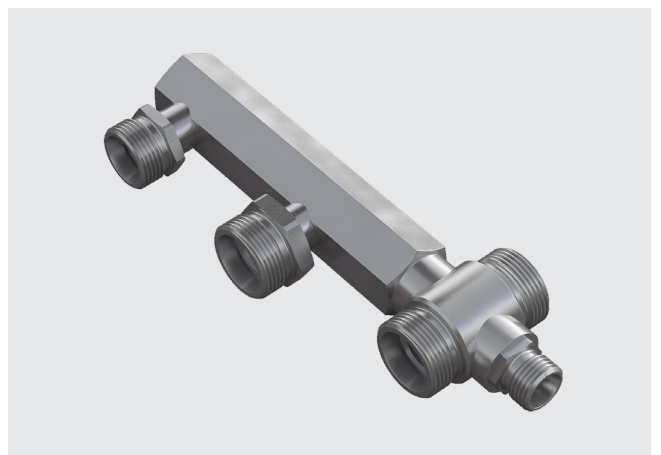
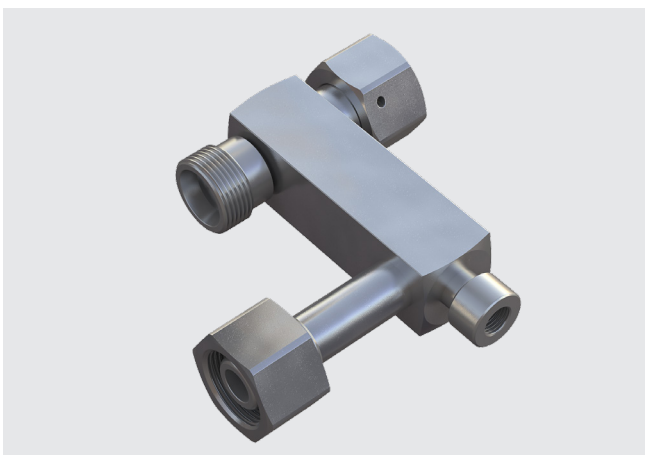
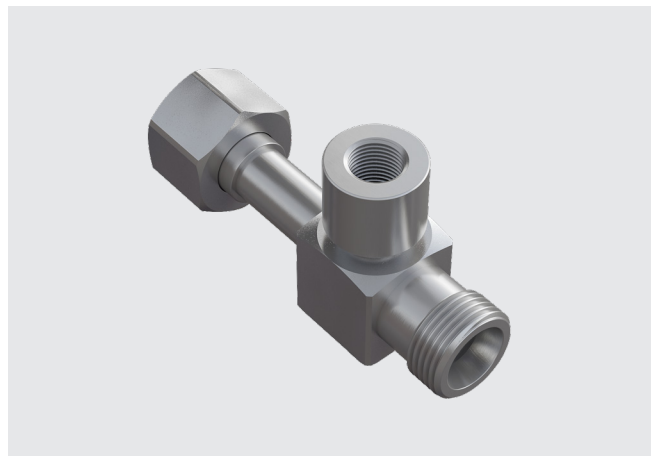
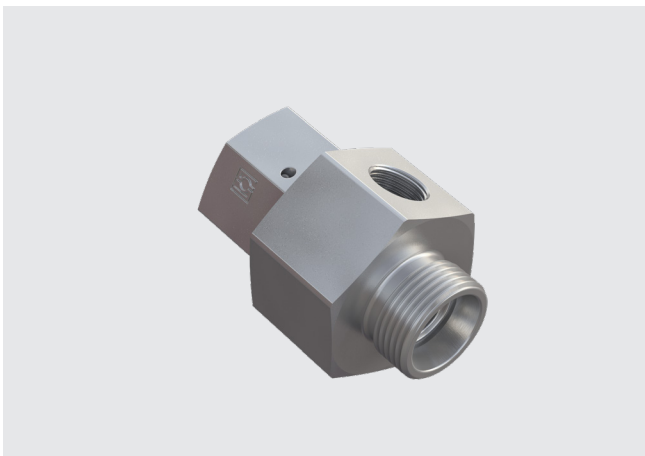
Please do not hesitate to contact STAUFF for further information.





N























N

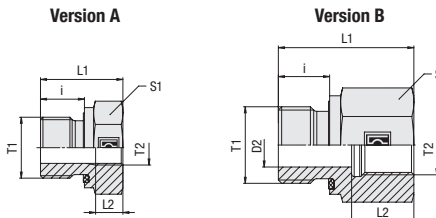




| | | | | | |
|---|--|---------|---|---|-----|
| | Thread Reducer FI-RED | 192-195 |  | Profile Sealing Ring WDG | 206 |
|  | Whitworth Parallel Pipe Thread (BSPP) / Profile Sealing Ring FI-RED-...-R-WD | 192 |  | O-Ring O-RING | 207 |
|  | Whitworth Parallel Pipe Thread (BSPP) / Metallic Sealing Edge FI-RED-...-R | 194 |  | External Metallic Sealing Ring FI-DKR | 212 |
| | Blanking Screw for Ports (Heavy Duty) FI-VSV | 196-197 |  | Retaining Ring with Captive Seal FI-DIR | 213 |
|  | Whitworth Parallel Pipe Thread (BSPP) / Profile Sealing Ring FI-VSV-...-R-WD | 196 |  | Internal Metallic Sealing Ring FI-DKI | 214 |
|  | Metric Parallel Thread / Profile Sealing Ring FI-VSV-...-M-WD | 197 |  | Retaining Ring (Small) FI-KR | 215 |
| | Blanking Screw for Ports FI-VS | 198-201 | | | |
|  | Whitworth Parallel Pipe Thread (BSPP) / Profile Sealing Ring FI-VS-...-R-WD | 198 | | | |
|  | Metric Parallel Thread / Profile Sealing Ring FI-VS-...-M-WD | 199 | | | |
|  | Whitworth Parallel Pipe Thread (BSPP) / Metallic Sealing Edge FI-VS-...-R | 200 | | | |
|  | Metric Parallel Thread / O-Ring FI-VS-...-M-OR | 201 | | | |
|  | Blanking Plug with 24° Taper / O-Ring (DK0) FI-VD | 202 | | | |
|  | Blanking Plug with Sealing Edge FI-BUZ | 203 | | | |
|  | Blanking Plug for Tube Ends FI-VSK | 204 | | | |
|  | Hexagon Lock Nut FI-SKM | 205 | | | |



Thread Reducer Type FI-RED-...-R-WD



Male / Female Whitworth Parallel Pipe Thread (BSPP)

Profile Sealing Ring

Ordering Codes

***FI-RED*-R*1/2*-WD*-R*3/8*-B*-W3**

- * Thread Reducer **FI-RED**
- * Thread Type T1 Whitworth Parallel Pipe Thread (BSPP) **R**
- * Thread Size T1 acc. to dimension table **1/2**
Please always indicate thread sizes, e.g. 1/2!
- * Seal Type Profile Sealing Ring **-WD**
- * Thread Type T2 Whitworth Parallel Pipe Thread (BSPP) **R**
- * Thread Size T2 acc. to dimension table **3/8**
Please always indicate thread sizes, e.g. 3/8!
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

| PN (^{bar} /PSI) | Dimensions (^{mm} / ⁱⁿ) | | | | | | | Version | Weight (^{kg} /lbs) ca. per 100 | Ordering Codes |
|------------------------------|---|-----------|-----|------|------|-----|------|---------|--|----------------------------|
| | Thread T1 | Thread T2 | D2 | L1 | L2 | i | S1 | | | |
| 630 | G 1/8 | G 1/4 | 4 | 31 | 17 | 8 | 19 | B | 4,30 | FI-RED-R1/8-WD-R1/4-B-W3 |
| 9135 | | | .16 | 1.22 | .67 | .31 | .75 | | 9.46 | |
| 630 | G 1/8 | G 3/8 | 4 | 32 | 17 | 8 | 24 | B | 6,70 | FI-RED-R1/8-WD-R3/8-B-W3 |
| 9135 | | | .16 | 1.26 | .67 | .31 | .94 | | 14.74 | |
| 400 | G 1/4 | G 1/8 | 5 | 29 | 12 | 12 | 19 | B | 4,40 | FI-RED-R1/4-WD-R1/8-B-W3 |
| 5800 | | | .20 | 1.14 | .47 | .47 | .75 | | 9.68 | |
| 400 | G 1/4 | G 3/8 | 5 | 36 | 17 | 12 | 24 | B | 7,30 | FI-RED-R1/4-WD-R3/8-B-W3 |
| 5800 | | | .20 | 1.42 | .67 | .47 | .94 | | 16.06 | |
| 400 | G 1/4 | G 1/2 | 5 | 40 | 20 | 12 | 30 | B | 12,80 | FI-RED-R1/4-WD-R1/2-B-W3 |
| 5800 | | | .20 | 1.57 | .79 | .47 | 1.18 | | 28.16 | |
| 400 | G 1/4 | G 3/4 | 5 | 43 | 22 | 12 | 36 | B | 18,80 | FI-RED-R1/4-WD-R3/4-B-W3 |
| 5800 | | | .20 | 1.69 | .87 | .47 | 1.42 | | 41.36 | |
| 400 | G 3/8 | G 1/8 | | 22,5 | 8,5 | 12 | 22 | A | 4,20 | FI-RED-R3/8-WD-R1/8-B-W3 |
| 5800 | | | | .89 | .33 | .47 | .87 | | 9.24 | |
| 400 | G 3/8 | G 1/4 | 8 | 36 | 17 | 12 | 22 | B | 7,40 | FI-RED-R3/8-WD-R1/4-B-W3 |
| 5800 | | | .31 | 1.42 | .67 | .47 | .87 | | 16.28 | |
| 630 | G 3/8 | G 1/2 | 8 | 41 | 20 | 12 | 30 | B | 13,60 | FI-RED-R3/8-WD-R1/2-B-W3 |
| 9135 | | | .31 | 1.61 | .79 | .47 | 1.18 | | 29.92 | |
| 400 | G 3/8 | G 3/4 | 8 | 44 | 22 | 12 | 36 | B | 19,70 | FI-RED-R3/8-WD-R3/4-B-W3 |
| 5800 | | | .31 | 1.73 | .87 | .47 | 1.42 | | 43.34 | |
| 400 | G 1/2 | G 1/8 | | 24 | 8 | 14 | 27 | A | 7,00 | FI-RED-R1/2-WD-R1/8-B-W3 |
| 5800 | | | | .94 | .31 | .55 | 1.06 | | 15.40 | |
| 400 | G 1/2 | G 1/4 | | 24 | 12 | 14 | 27 | A | 6,20 | FI-RED-R1/2-WD-R1/4-B-W3 |
| 5800 | | | | .94 | .47 | .55 | 1.06 | | 13.64 | |
| 400 | G 1/2 | G 3/8 | 12 | 37 | 17 | 14 | 27 | B | 10,40 | FI-RED-R1/2-WD-R3/8-B-W3 |
| 5800 | | | .47 | 1.46 | .67 | .55 | 1.06 | | 22.88 | |
| 400 | G 1/2 | G 3/4 | 12 | 46 | 22 | 14 | 36 | B | 20,10 | FI-RED-R1/2-WD-R3/4-B-W3 |
| 5800 | | | .47 | 1.81 | .87 | .55 | 1.42 | | 44.22 | |
| 250 | G 1/2 | G 1 | 12 | 49 | 24,5 | 14 | 41 | B | 25,10 | FI-RED-R1/2-WD-R1-B-W3 |
| 3625 | | | .47 | 1.93 | .96 | .55 | 1.61 | | 55.22 | |
| 250 | G 1/2 | G 1 1/4 | 10 | 53 | 26,5 | 14 | 55 | B | 52,10 | FI-RED-R1/2-WD-R1-1/4-B-W3 |
| 3625 | | | .39 | 2.09 | 1.04 | .55 | 2.17 | | 114.62 | |

Spare Parts / Accessories

Profile Sealing Ring
Type **WDG**

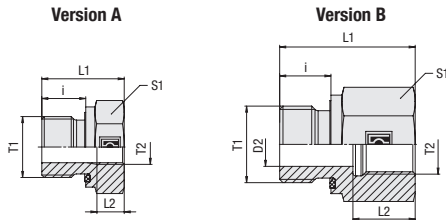
Page 206

Standard seal material is NBR (Buna-N®).

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.





Thread Reducer Type FI-RED-...-R-WD



Profile Sealing Ring

Male / Female Whitworth Parallel Pipe Thread (BSPP)

| PN (bar/psi) | Dimensions (mm/in) | | D2 | L1 | L2 | i | S1 | Version | Weight (kg/lbs) ca. per 100 | Ordering Codes |
|-----------------|-----------------------|-----------|------|------|------|-----|------|---------|-----------------------------------|------------------------------|
| | Thread T1 | Thread T2 | | | | | | | | |
| 315 | G 3/4 | G 1/4 | | 26 | 12,5 | 16 | 32 | A | 10,90 | FI-RED-R3/4-WD-R1/4-B-W3 |
| 4567,5 | | | | 1.02 | .49 | .63 | 1.26 | | 23.98 | |
| 315 | G 3/4 | G 3/8 | | 26 | 12,5 | 16 | 32 | A | 9,40 | FI-RED-R3/4-WD-R3/8-B-W3 |
| 4567,5 | | | | 1.02 | .49 | .63 | 1.26 | | 20.68 | |
| 400 | G 3/4 | G 1/2 | 16 | 43 | 20 | 16 | 32 | B | 16,90 | FI-RED-R3/4-WD-R1/2-B-W3 |
| 5800 | | | .63 | 1.69 | .79 | .63 | 1.26 | | 37.18 | |
| 400 | G 3/4 | G 1 | 16 | 51 | 24,5 | 16 | 41 | B | 26,60 | FI-RED-R3/4-WD-R1-B-W3 |
| 5800 | | | .63 | 2.01 | .96 | .63 | 1.61 | | 58.52 | |
| 250 | G 3/4 | G 1 1/4 | 16 | 55 | 26,5 | 16 | 55 | B | 52,70 | FI-RED-R3/4-WD-R1-1/4-B-W3 |
| 3625 | | | .63 | 2.17 | 1.04 | .63 | 2.17 | | 115.94 | |
| 250 | G 3/4 | G 1 1/2 | 16 | 57 | 28,5 | 16 | 60 | B | 61,10 | FI-RED-R3/4-WD-R1-1/2-B-W3 |
| 3625 | | | .63 | 2.24 | 1.12 | .63 | 2.36 | | 134.42 | |
| 400 | G 1 | G 1/4 | | 29 | 12,5 | 18 | 41 | A | 20,70 | FI-RED-R1-WD-R1/4-B-W3 |
| 5800 | | | | 1.14 | .49 | .71 | 1.61 | | 45.54 | |
| 400 | G 1 | G 3/8 | | 29 | 12,5 | 18 | 41 | A | 19,10 | FI-RED-R1-WD-R3/8-B-W3 |
| 5800 | | | | 1.14 | .49 | .71 | 1.61 | | 42.02 | |
| 400 | G 1 | G 1/2 | | 29 | 14,5 | 18 | 41 | A | 16,80 | FI-RED-R1-WD-R1/2-B-W3 |
| 5800 | | | | 1.14 | .57 | .71 | 1.61 | | 36.96 | |
| 400 | G 1 | G 3/4 | 20 | 49 | 22 | 18 | 41 | B | 31,30 | FI-RED-R1-WD-R3/4-B-W3 |
| 5800 | | | .79 | 1.93 | .87 | .71 | 1.61 | | 68.86 | |
| 250 | G 1 | G 1 1/4 | 20 | 57 | 26,5 | 18 | 55 | B | 58,80 | FI-RED-R1-WD-R1-1/4-B-W3 |
| 3625 | | | .79 | 2.24 | 1.04 | .71 | 2.17 | | 129.36 | |
| 250 | G 1 | G 1 1/2 | 20 | 59 | 28,5 | 18 | 60 | B | 63,90 | FI-RED-R1-WD-R1-1/2-B-W3 |
| 3625 | | | .79 | 2.32 | 1.12 | .71 | 2.36 | | 140.58 | |
| 315 | G 1 1/4 | G 1/2 | | 32 | 14,5 | 20 | 50 | A | 33,00 | FI-RED-R1-1/4-WD-R1/2-B-W3 |
| 4567,5 | | | | 1.26 | .57 | .79 | 1.97 | | 72.60 | |
| 315 | G 1 1/4 | G 3/4 | | 32 | 16,5 | 20 | 50 | A | 28,30 | FI-RED-R1-1/4-WD-R3/4-B-W3 |
| 4567,5 | | | | 1.26 | .65 | .79 | 1.97 | | 62.26 | |
| 315 | G 1 1/4 | G 1 | 25 | 53 | 24,5 | 20 | 50 | B | 50,60 | FI-RED-R1-1/4-WD-R1-B-W3 |
| 4567,5 | | | .98 | 2.09 | .96 | .79 | 1.97 | | 111.32 | |
| 250 | G 1 1/4 | G 1 1/2 | 25 | 60 | 28,5 | 20 | 60 | B | 67,30 | FI-RED-R1-1/4-WD-R1-1/2-B-W3 |
| 3625 | | | .98 | 2.36 | 1.12 | .79 | 2.36 | | 148.06 | |
| 250 | G 1 1/2 | G 1/2 | | 36 | 14,5 | 22 | 55 | A | 49,60 | FI-RED-R1-1/2-WD-R1/2-B-W3 |
| 3625 | | | | 1.42 | .57 | .87 | 2.17 | | 109.12 | |
| 250 | G 1 1/2 | G 3/4 | | 36 | 16 | 22 | 55 | A | 44,40 | FI-RED-R1-1/2-WD-R3/4-B-W3 |
| 3625 | | | | 1.42 | .63 | .87 | 2.17 | | 97.68 | |
| 250 | G 1 1/2 | G 1 | | 36 | 18,5 | 22 | 55 | A | 36,90 | FI-RED-R1-1/2-WD-R1-B-W3 |
| 3625 | | | | 1.42 | .73 | .87 | 2.17 | | 81.18 | |
| 250 | G 1 1/2 | G 1 1/4 | | 58 | 26,5 | 22 | 55 | A | 57,80 | FI-RED-R1-1/2-WD-R1-1/4-B-W3 |
| 3625 | | | | 2.28 | 1.04 | .87 | 2.17 | | 127.16 | |
| 160 | G 2 | G 1 1/4 | | 48 | 20,5 | 24 | 75 | A | 93,70 | FI-RED-R2-WD-R1-1/4-B-W3 |
| 2320 | | | | 1.89 | .81 | .94 | 2.95 | | 206.14 | |
| 160 | G 2 | G 1 1/2 | 40 | 65 | 29 | 24 | 75 | B | 132,20 | FI-RED-R2-WD-R1-1/2-B-W3 |
| 2320 | | | 1.57 | 2.56 | 1.14 | .94 | 2.95 | | 290.84 | |

Standard seal material is NBR (Buna-N®).

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
Please contact STAUFF prior to the assembly for further information.

Ordering Codes

FI-RED-R*1/2*-WD*-R*3/8*-B*-W3

| | | |
|--|---------------------------------------|----------------|
| * Thread Reducer | | FI-RED |
| * Thread Type T1 | Whitworth Parallel Pipe Thread (BSPP) | R |
| * Thread Size T1 | acc. to dimension table | 1/2 |
| Please always indicate thread sizes, e.g. 1/2! | | |
| * Seal Type | Profile Sealing Ring | -WD |
| * Thread Type T2 | Whitworth Parallel Pipe Thread (BSPP) | R |
| * Thread Size T2 | acc. to dimension table | 3/8 |
| Please always indicate thread sizes, e.g. 3/8! | | |
| * Seal Material | NBR (Buna-N®) FKM (Viton®) EPDM | -B -V -E |
| * Material Code | Steel, zinc/nickel-plated | -W3 |

Spare Parts / Accessories

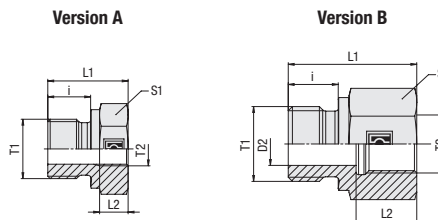
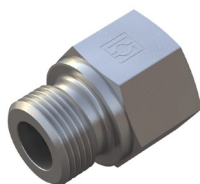


Profile Sealing Ring
Type WDG

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Thread Reducer Type FI-RED-...-R



Male / Female Whitworth Parallel Pipe Thread (BSPP)

Metallic Sealing Edge

Ordering Codes

***FI-RED*-R*1/2*-R*3/8*-B*-W3**

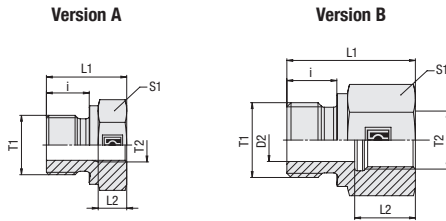
- * Thread Reducer** **FI-RED**
- * Thread Type T1** Whitworth Parallel Pipe Thread (BSPP) **R**
- * Thread Size T1** acc. to dimension table **1/2**
Please always indicate thread sizes, e.g. 1/2!
- * Thread Type T2** Whitworth Parallel Pipe Thread (BSPP) **R**
- * Thread Size T2** acc. to dimension table **3/8**
Please always indicate thread sizes, e.g. 3/8!
- * Seal Material** NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code** Steel, zinc/nickel-plated **-W3**
Please contact STAUFF for alternative materials and surface finishings.

| PN (^{bar} / _{PSI}) | Dimensions (^{mm} / _{in}) | | | | | | | Version | Weight (^{kg} / _{lbs}) ca. per 100 | Ordering Codes |
|---|---|-----------|-----|------|------|-----|------|---------|---|-----------------------|
| | Thread T1 | Thread T2 | D2 | L1 | L2 | i | S1 | | | |
| 630 | G 1/8 | G 1/4 | 4 | 31 | 17 | 8 | 19 | B | 4,25 | FI-RED-R1/8-R1/4-W3 |
| 9135 | | | .16 | 1.22 | .67 | .31 | .75 | | 9.35 | |
| 630 | G 1/8 | G 3/8 | 4 | 32 | 17 | 8 | 24 | B | 6,15 | FI-RED-R1/8-R3/8-W3 |
| 9135 | | | .16 | 1.26 | .67 | .31 | .94 | | 13.53 | |
| 400 | G 1/4 | G 1/8 | 5 | 28 | 12 | 12 | 19 | B | 3,91 | FI-RED-R1/4-R1/8-W3 |
| 5800 | | | .20 | 1.10 | .47 | .47 | .75 | | 8.60 | |
| 630 | G 1/4 | G 3/8 | 5 | 36 | 17 | 12 | 24 | B | 6,80 | FI-RED-R1/4-R3/8-W3 |
| 9135 | | | .20 | 1.42 | .67 | .47 | .94 | | 14.96 | |
| 630 | G 1/4 | G 1/2 | 5 | 40 | 20 | 12 | 30 | B | 11,80 | FI-RED-R1/4-R1/2-W3 |
| 9135 | | | .20 | 1.57 | .79 | .47 | 1.18 | | 25.96 | |
| 630 | G 1/4 | G 3/4 | 5 | 43 | 22 | 12 | 36 | B | 17,50 | FI-RED-R1/4-R3/4-W3 |
| 9135 | | | .20 | 1.69 | .87 | .47 | 1.42 | | 38.50 | |
| 400 | G 3/8 | G 1/8 | | 22,5 | 8 | 12 | 22 | A | 4,20 | FI-RED-R3/8-R1/8-W3 |
| 5800 | | | | .89 | .31 | .47 | .87 | | 9.24 | |
| 400 | G 3/8 | G 1/4 | 8 | 36 | 17 | 12 | 22 | B | 7,05 | FI-RED-R3/8-R1/4-W3 |
| 5800 | | | .31 | 1.42 | .67 | .47 | .87 | | 15.51 | |
| 400 | G 3/8 | G 1/2 | 8 | 41 | 20 | 12 | 30 | B | 17,80 | FI-RED-R3/8-R1/2-W3 |
| 5800 | | | .31 | 1.61 | .79 | .47 | 1.18 | | 39.18 | |
| 630 | G 3/8 | G 3/4 | 8 | 44 | 22 | 12 | 36 | B | 18,40 | FI-RED-R3/8-R3/4-W3 |
| 9135 | | | .31 | 1.73 | .87 | .47 | 1.42 | | 40.48 | |
| 400 | G 1/2 | G 1/8 | | 24 | 8 | 14 | 27 | A | 6,58 | FI-RED-R1/2-R1/8-W3 |
| 5800 | | | | .94 | .31 | .55 | 1.06 | | 14.48 | |
| 400 | G 1/2 | G 1/4 | | 24 | 12,5 | 14 | 27 | A | 5,53 | FI-RED-R1/2-R1/4-W3 |
| 5800 | | | | .94 | .49 | .55 | 1.06 | | 12.17 | |
| 400 | G 1/2 | G 3/8 | 12 | 36 | 17 | 14 | 27 | B | 9,30 | FI-RED-R1/2-R3/8-W3 |
| 5800 | | | .47 | 1.42 | .67 | .55 | 1.06 | | 20.46 | |
| 400 | G 1/2 | G 3/4 | 12 | 46 | 22 | 14 | 36 | B | 18,50 | FI-RED-R1/2-R3/4-W3 |
| 5800 | | | .47 | 1.81 | .87 | .55 | 1.42 | | 40.70 | |
| 400 | G 1/2 | G 1 | 12 | 49 | 24,5 | 14 | 41 | B | 22,70 | FI-RED-R1/2-R1-W3 |
| 5800 | | | .47 | 1.93 | .96 | .55 | 1.61 | | 49.94 | |
| 400 | G 1/2 | G 1 1/4 | 12 | 53 | 26,5 | 14 | 55 | B | 48,10 | FI-RED-R1/2-R1-1/4-W3 |
| 5800 | | | .47 | 2.09 | 1.04 | .55 | 2.17 | | 105.82 | |

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.



Thread Reducer
 Type FI-RED-...-R


Metallic Sealing Edge

Male / Female Whitworth Parallel Pipe Thread (BSPP)

| PN (^{bar} /psi) | Dimensions (^{mm} / _{in}) | | D2 | L1 | L2 | i | S1 | Version | Weight (^{kg} /lb) ca. per 100 | Ordering Codes |
|------------------------------|---|-----------|------|------|------|------|------|---------|---|-----------------------|
| | Thread T1 | Thread T2 | | | | | | | | |
| 400 | G 3/4 | G 1/4 | | 26 | 12,5 | 16 | 32 | A | 10,20 | FI-RED-R3/4-R1/4-W3 |
| 5800 | | | | 1.02 | .49 | .63 | 1.26 | | 22.44 | |
| 315 | G 3/4 | G 3/8 | | 26 | 12,5 | 16 | 32 | A | 8,70 | FI-RED-R3/4-R3/8-W3 |
| 4567,5 | | | | 1.02 | .49 | .63 | 1.26 | | 19.14 | |
| 315 | G 3/4 | G 1/2 | 16 | 41 | 20 | 16 | 32 | B | 14,60 | FI-RED-R3/4-R1/2-W3 |
| 4567,5 | | | .63 | 1.61 | .79 | .63 | 1.26 | | 32.12 | |
| 315 | G 3/4 | G 1 | 16 | 51 | 24,5 | 16 | 41 | B | 24,60 | FI-RED-R3/4-R1-W3 |
| 4567,5 | | | .63 | 2.01 | .96 | .63 | 1.61 | | 54.12 | |
| 400 | G 3/4 | G 1 1/4 | 16 | 55 | 26,5 | 16 | 55 | B | 48,40 | FI-RED-R3/4-R1-1/4-W3 |
| 5800 | | | .63 | 2.17 | 1.04 | .63 | 2.17 | | 106.48 | |
| 250 | G 3/4 | G 1 1/2 | 16 | 57 | 28,5 | 16 | 60 | B | 57,00 | FI-RED-R3/4-R1-1/2-W3 |
| 3625 | | | .63 | 2.24 | 1.12 | .63 | 2.36 | | 125.40 | |
| 250 | G 1 | G 1/4 | | 29 | 12,5 | 18 | 41 | A | 19,10 | FI-RED-R1-R1/4-W3 |
| 3625 | | | | 1.14 | .49 | .71 | 1.61 | | 42.02 | |
| 315 | G 1 | G 3/8 | | 29 | 12,5 | 18 | 41 | A | 17,90 | FI-RED-R1-R3/8-W3 |
| 4567,5 | | | | 1.14 | .49 | .71 | 1.61 | | 39.38 | |
| 315 | G 1 | G 1/2 | | 29 | 14,5 | 18 | 41 | A | 15,40 | FI-RED-R1-R1/2-W3 |
| 4567,5 | | | | 1.14 | .57 | .71 | 1.61 | | 33.88 | |
| 315 | G 1 | G 3/4 | 20 | 47 | 22 | 18 | 41 | B | 27,60 | FI-RED-R1-R3/4-W3 |
| 4567,5 | | | .79 | 1.85 | .87 | .71 | 1.61 | | 60.72 | |
| 315 | G 1 | G 1 1/4 | 20 | 57 | 26,5 | 18 | 55 | B | 52,10 | FI-RED-R1-R1-1/4-W3 |
| 4567,5 | | | .79 | 2.24 | 1.04 | .71 | 2.17 | | 114.62 | |
| 250 | G 1 1/4 | G 1/2 | | 32 | 14,5 | 20 | 50 | A | 31,30 | FI-RED-R1-1/4-R1/2-W3 |
| 3625 | | | | 1.26 | .57 | .79 | 1.97 | | 68.86 | |
| 315 | G 1 1/4 | G 3/4 | | 32 | 16,5 | 20 | 50 | A | 26,50 | FI-RED-R1-1/4-R3/4-W3 |
| 4567,5 | | | | 1.26 | .65 | .79 | 1.97 | | 58.30 | |
| 315 | G 1 1/2 | G 1/2 | | 36 | 14,5 | 22 | 55 | A | 47,30 | FI-RED-R1-1/2-R1/2-W3 |
| 4567,5 | | | | 1.42 | .57 | .87 | 2.17 | | 104.06 | |
| 250 | G 1 1/2 | G 3/4 | | 36 | 14,5 | 22 | 55 | A | 41,90 | FI-RED-R1-1/2-R3/4-W3 |
| 3625 | | | | 1.42 | .57 | .87 | 2.17 | | 92.18 | |
| 250 | G 1 1/2 | G 1 | | 36 | 18 | 22 | 55 | A | 34,10 | FI-RED-R1-1/2-R1-W3 |
| 3625 | | | | 1.42 | .71 | .87 | 2.17 | | 75.02 | |
| 250 | G 2 | G 1 1/4 | | 62 | 20,5 | 24 | 70 | A | 99,50 | FI-RED-R2-R1-1/4-W3 |
| 3625 | | | | 2.44 | .81 | .94 | 2.76 | | 218.90 | |
| 160 | G 2 | G 1 1/2 | 40 | 62 | 28,5 | 28,5 | 70 | B | 107,30 | FI-RED-R2-R1-1/2-W3 |
| 2320 | | | 1.57 | 2.44 | 1.12 | 1.12 | 2.76 | | 236.06 | |

Ordering Codes

***FI-RED*-R*1/2*-R*3/8*-B*-W3**

| | | |
|--|---------------------------------------|-------------------------------------|
| * Thread Reducer | | FI-RED |
| * Thread Type T1 | Whitworth Parallel Pipe Thread (BSPP) | R |
| * Thread Size T1 | acc. to dimension table | 1/2 |
| Please always indicate thread sizes, e.g. 1/2! | | |
| * Thread Type T2 | Whitworth Parallel Pipe Thread (BSPP) | R |
| * Thread Size T2 | acc. to dimension table | 3/8 |
| Please always indicate thread sizes, e.g. 3/8! | | |
| * Seal Material | NBR (Buna-N®) FKM (Viton®) EPDM | -B -V -E |
| * Material Code | Steel, zinc/nickel-plated | -W3 |

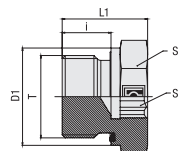
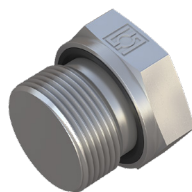
Please contact STAUFF for alternative materials and surface finishings.

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.



Blanking Screw for Ports (Heavy Duty) Type FI-VSV-...-R-WD



Ordering Codes

***FI-VSV*-R*1/2*-WD*-B*-W3**

- * Blanking Screw for Ports **FI-VSV**
- * Thread Type Whitworth Parallel Pipe Thread (BSPP) **R**
- * Thread Size acc. to dimension table **1/2**
- Please always indicate thread sizes, e.g. 1/2!
- * Seal Type Profile Sealing Ring **-WD**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

Whitworth Parallel Pipe Thread (BSPP)

Profile Sealing Ring

| PN (^{bar} / _{PSI}) | Dimensions (^{mm} / _{in}) | D1 | L1 | i | S1 | S2 | Torque (^{N·m} / _{ft·lb}) | Weight (^{kg} / _{lbs}) ca. per 100 | Ordering Codes |
|---|---|------|------|-----|-----|------|---|---|-----------------------|
| | | | | | | | | | |
| 400 | G 1/8 | 14 | 18 | 8 | 5 | 14 | 18 | 1,56 | FI-VSV-R1/8-WD-B-W3 |
| 5800 | | .55 | .71 | .31 | .20 | .55 | 13.3 | 3.43 | |
| 400 | G 1/4 | 19 | 20 | 12 | 6 | 19 | 33 | 2,73 | FI-VSV-R1/4-WD-B-W3 |
| 5800 | | .75 | .79 | .47 | .24 | .75 | 24.4 | 6.00 | |
| 400 | G 3/8 | 22 | 22 | 12 | 8 | 22 | 70 | 4,48 | FI-VSV-R3/8-WD-B-W3 |
| 5800 | | .87 | .87 | .47 | .31 | .87 | 51.8 | 9.85 | |
| 400 | G 1/2 | 27 | 24 | 14 | 10 | 27 | 90 | 7,27 | FI-VSV-R1/2-WD-B-W3 |
| 5800 | | 1.06 | .94 | .55 | .39 | 1.06 | 66.6 | 15.98 | |
| 400 | G 3/4 | 32 | 28 | 16 | 12 | 32 | 181 | 13,02 | FI-VSV-R3/4-WD-B-W3 |
| 5800 | | 1.26 | 1.10 | .63 | .47 | 1.26 | 133.2 | 28.64 | |
| 400 | G 1 | 46 | 33 | 18 | 17 | 46 | 250 | 23,80 | FI-VSV-R1-WD-B-W3 |
| 5800 | | 1.81 | 1.30 | .71 | .67 | 1.81 | 185.0 | 52.36 | |
| 400 | G 1 1/4 | 57 | 38 | 20 | 22 | 60 | 400 | 42,00 | FI-VSV-R1 1/4-WD-B-W3 |
| 5800 | | 2.24 | 1.50 | .79 | .87 | 2.36 | 296.0 | 92.40 | |
| 400 | G 1 1/2 | 64 | 40 | 22 | 24 | 65 | 500 | 55,60 | FI-VSV-R1 1/2-WD-B-W3 |
| 5800 | | 2.52 | 1.57 | .87 | .94 | 2.56 | 370.0 | 122.32 | |

Standard seal material is NBR (Buna-N®).

Male stud acc. to ISO 1179-2 (Type E)
Port acc. to ISO 1179-1

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Torque recommendations for Steel mating material.

Please contact STAUFF prior to the assembly for further information.

Spare Parts / Accessories

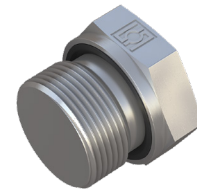
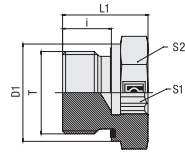


Profile Sealing Ring
Type **WDG**

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Blanking Screw for Ports (Heavy Duty)
Type FI-VSV-...-M-WD



Profile Sealing Ring

Metric Parallel Thread

| PN (bar/PSI) | Dimensions (mm/in) | | | | | | Torque (N-m/ft-lb) | Weight (kg/lbs) Ca. per 100 | Ordering Codes |
|-----------------|-----------------------|------|------|-----|-----|------|-----------------------|-----------------------------------|------------------------|
| | Thread T | D1 | L1 | i | S1 | S2 | | | |
| 400 | M 10 x 1 | 14 | 18 | 8 | 5 | 14 | 12 | 1,58 | FI-VSV-M10x1-WD-B-W3 |
| 5800 | | .55 | .71 | .31 | .20 | .55 | 8.9 | 3.47 | |
| 400 | M 12 x 1,5 | 17 | 20 | 12 | 6 | 17 | 25 | 2,13 | FI-VSV-M12x1.5-WD-B-W3 |
| 5800 | | .67 | .79 | .47 | .24 | .67 | 18.5 | 4.69 | |
| 400 | M 14 x 1,5 | 19 | 22 | 12 | 6 | 19 | 45 | 3,35 | FI-VSV-M14x1.5-WD-B-W3 |
| 5800 | | .75 | .87 | .47 | .24 | .75 | 33.3 | 7.38 | |
| 400 | M 16 x 1,5 | 22 | 22 | 12 | 8 | 22 | 55 | 4,30 | FI-VSV-M16x1.5-WD-B-W3 |
| 5800 | | .87 | .87 | .47 | .31 | .87 | 40.7 | 9.46 | |
| 400 | M 18 x 1,5 | 24 | 22 | 12 | 8 | 24 | 70 | 5,38 | FI-VSV-M18x1.5-WD-B-W3 |
| 5800 | | .94 | .87 | .47 | .31 | .94 | 51.8 | 11.83 | |
| 400 | M 20 x 1,5 | 27 | 22 | 14 | 10 | 27 | 80 | 6,09 | FI-VSV-M20x1.5-WD-B-W3 |
| 5800 | | 1.06 | .87 | .55 | .39 | 1.06 | 59.2 | 13.39 | |
| 400 | M 22 x 1,5 | 27 | 22 | 14 | 10 | 27 | 125 | 6,77 | FI-VSV-M22x1.5-WD-B-W3 |
| 5800 | | 1.06 | .87 | .55 | .39 | 1.06 | 92.5 | 14.89 | |
| 400 | M 26 x 1,5 | 32 | 30 | 16 | 12 | 32 | 180 | 14,33 | FI-VSV-M26x1.5-WD-B-W3 |
| 5800 | | 1.26 | 1.18 | .63 | .47 | 1.26 | 133.2 | 31.53 | |
| 400 | M 27 x 2 | 32 | 28 | 16 | 12 | 32 | 180 | 13,23 | FI-VSV-M27x2-WD-B-W3 |
| 5800 | | 1.26 | 1.10 | .63 | .47 | 1.26 | 133.2 | 29.11 | |
| 400 | M 33 x 2 | 40 | 33 | 18 | 17 | 41 | 250 | 29,32 | FI-VSV-M33x2-WD-B-W3 |
| 5800 | | 1.57 | 1.30 | .71 | .67 | 1.61 | 185.0 | 64.50 | |
| 400 | M 42 x 2 | 50 | 38 | 20 | 22 | 50 | 400 | 57,35 | FI-VSV-M42x2-WD-B-W3 |
| 5800 | | 1.97 | 1.50 | .79 | .87 | 1.97 | 296.0 | 126.17 | |
| 400 | M 48 x 2 | 55 | 40 | 22 | 24 | 55 | 500 | 73,79 | FI-VSV-M48x2-WD-B-W3 |
| 5800 | | 2.17 | 1.57 | .87 | .94 | 2.17 | 370.0 | 162.33 | |

Ordering Codes

***FI-VSV*-M*12x1.5*-WD*-B*-W3**

- * Blanking Screw for Ports FI-VSV
- * Thread Type Metric Parallel Thread **M**
- * Thread Size acc. to dimension table **12x1.5**
- Please always indicate thread sizes, e.g. 12x1.5!
- * Seal Type Profile Sealing Ring **-WD**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

Spare Parts / Accessories



Profile Sealing Ring
Type **WDG**

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Standard seal material is NBR (Buna-N®).

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

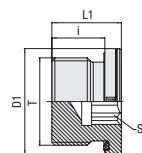
Please contact STAUFF prior to the assembly for further information.

Male stud acc. to ISO 9974-2 (Type E)
Port acc. to ISO 9974-1

Torque recommendations for Steel mating material.



Blanking Screw for Ports Type FI-VS-...-R-WD



Ordering Codes

***FI-VS*-R*1/2*-WD*-B*-W3**

| | | |
|---|---------------------------------------|-------------------------------------|
| * Blanking Screw for Ports | | FI-VS |
| * Thread Type | Whitworth Parallel Pipe Thread (BSPP) | R |
| * Thread Size | acc. to dimension table | 1/2 |
| Please always indicate thread sizes, e.g. 1/2! | | |
| * Seal Type | Profile Sealing Ring | -WD |
| * Seal Material | NBR (Buna-N®) FKM (Viton®) EPDM | -B -V -E |
| * Material Code | Steel, zinc/nickel-plated | -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | | |

Whitworth Parallel Pipe Thread (BSPP)

Profile Sealing Ring

| PN (^{inch} / _{PSI}) | Dimensions (^{mm} / _{in}) | | | | | Torque (^{N-m} / _{ft-lb}) | Weight (^{kg} / _{lbs}) ca. per 100 | Ordering Codes |
|--|---|------|------|-----|-----|---|---|----------------------|
| | Thread T | D1 | L1 | i | S1 | | | |
| 400 | G 1/8 | 14 | 12,3 | 8 | 5 | 15 | 0,70 | FI-VS-R1/8-WD-B-W3 |
| 5800 | | .55 | .48 | .31 | .20 | 11.1 | 1.54 | |
| 400 | G 1/4 | 19 | 17,3 | 12 | 6 | 25 | 1,90 | FI-VS-R1/4-WD-B-W3 |
| 5800 | | .75 | .68 | .47 | .24 | 18.5 | 4.18 | |
| 400 | G 3/8 | 22 | 17,3 | 12 | 8 | 50 | 2,70 | FI-VS-R3/8-WD-B-W3 |
| 5800 | | .87 | .68 | .47 | .31 | 37.0 | 5.94 | |
| 400 | G 1/2 | 27 | 19,3 | 14 | 10 | 70 | 4,60 | FI-VS-R1/2-WD-B-W3 |
| 5800 | | 1.06 | .76 | .55 | .39 | 51.8 | 10.12 | |
| 400 | G 3/4 | 32 | 21,3 | 16 | 12 | 120 | 8,00 | FI-VS-R3/4-WD-B-W3 |
| 5800 | | 1.26 | .84 | .63 | .47 | 88.8 | 17.60 | |
| 400 | G 1 | 40 | 22,8 | 16 | 17 | 200 | 12,80 | FI-VS-R1-WD-B-W3 |
| 5800 | | 1.57 | .90 | .63 | .67 | 148.0 | 28.16 | |
| 315 | G 1 1/4 | 50 | 22,8 | 16 | 22 | 320 | 19,90 | FI-VS-R1-1/4-WD-B-W3 |
| 4568 | | 1.97 | .90 | .63 | .87 | 236.8 | 43.78 | |
| 315 | G 1 1/2 | 55 | 22,8 | 16 | 24 | 400 | 26,20 | FI-VS-R1-1/2-WD-B-W3 |
| 4568 | | 2.17 | .90 | .63 | .94 | 296.0 | 57.64 | |

Standard seal material is NBR (Buna-N®).

Male stud acc. to ISO 1179-2 (Type E)
Port acc. to ISO 1179-1

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.
Please contact STAUFF prior to the assembly for further information.

Torque recommendations for Steel mating material.

Spare Parts / Accessories

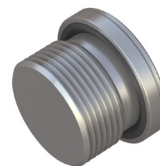
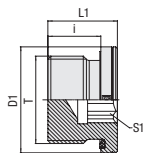


Profile Sealing Ring
Type **WDG**

Page 206



Blanking Screw for Ports
Type FI-VS-...-M-WD



Profile Sealing Ring

Metric Parallel Thread

| PN (^{bar} /PSI) | Dimensions (^{mm} / _{in}) | | | | | Torque (^{N·m} / _{ft·lb}) | Weight (^{kg} / _{lbs}) Ca. per 100 | Ordering Codes |
|------------------------------|---|------|------|-----|-----|---|---|-----------------------|
| | Thread T | D1 | L1 | i | S1 | | | |
| 400 | M 8 x 1 | 12 | 12 | 8 | 4 | 10 | 0,50 | FI-VS-M8x1-WD-B-W3 |
| 5800 | | .47 | .47 | .31 | .16 | 7.4 | 1.10 | |
| 400 | M 10 x 1 | 14 | 12,3 | 8 | 5 | 12 | 0,70 | FI-VS-M10x1-WD-B-W3 |
| 5800 | | .55 | .48 | .31 | .20 | 8.9 | 1.54 | |
| 400 | M 12 x 1,5 | 17 | 17,3 | 12 | 6 | 23 | 1,50 | FI-VS-M12x1.5-WD-B-W3 |
| 5800 | | .67 | .68 | .47 | .24 | 17.0 | 3.30 | |
| 400 | M 14 x 1,5 | 19 | 17,3 | 12 | 6 | 30 | 2,00 | FI-VS-M14x1.5-WD-B-W3 |
| 5800 | | .75 | .68 | .47 | .24 | 22.2 | 4.40 | |
| 400 | M 16 x 1,5 | 22 | 17,3 | 12 | 8 | 50 | 2,60 | FI-VS-M16x1.5-WD-B-W3 |
| 5800 | | .87 | .68 | .47 | .31 | 37.0 | 5.72 | |
| 400 | M 18 x 1,5 | 24 | 17,3 | 12 | 8 | 65 | 3,30 | FI-VS-M18x1.5-WD-B-W3 |
| 5800 | | .94 | .68 | .47 | .31 | 48.1 | 7.26 | |
| 400 | M 20 x 1,5 | 26 | 19,3 | 14 | 10 | 80 | 4,30 | FI-VS-M20x1.5-WD-B-W3 |
| 5800 | | 1.02 | .76 | .55 | .39 | 59.2 | 9.46 | |
| 400 | M 22 x 1,5 | 27 | 19,3 | 14 | 10 | 90 | 5,10 | FI-VS-M22x1.5-WD-B-W3 |
| 5800 | | 1.06 | .76 | .55 | .39 | 66.6 | 11.22 | |
| 400 | M 26 x 1,5 | 32 | 21,3 | 16 | 12 | 100 | 8,00 | FI-VS-M26x1.5-WD-B-W3 |
| 5800 | | 1.26 | .84 | .63 | .47 | 74.0 | 17.60 | |
| 400 | M 27 x 2 | 32 | 21,3 | 16 | 12 | 130 | 8,20 | FI-VS-M27x2-WD-B-W3 |
| 5800 | | 1.26 | .84 | .63 | .47 | 96.2 | 18.04 | |
| 400 | M 33 x 2 | 40 | 22,8 | 16 | 17 | 250 | 13,10 | FI-VS-M33x2-WD-B-W3 |
| 5800 | | 1.57 | .90 | .63 | .67 | 185.0 | 28.82 | |
| 250 | M 42 x 2 | 50 | 22,8 | 16 | 22 | 310 | 20,40 | FI-VS-M42x2-WD-B-W3 |
| 3625 | | 1.97 | .90 | .63 | .87 | 229.4 | 44.88 | |
| 250 | M 48 x 2 | 55 | 22,8 | 16 | 24 | 380 | 26,90 | FI-VS-M48x2-WD-B-W3 |
| 3625 | | 2.17 | .90 | .63 | .94 | 281.2 | 59.18 | |

Ordering Codes

***FI-VS*-M*12x1.5*-WD*-B*-W3**

- * Blanking Screw for Ports FI-VS
- * Thread Type Metric Parallel Thread M
- * Thread Size acc. to dimension table 12x1.5
- Please always indicate thread sizes, e.g. 12x1.5!
- * Seal Type Profile Sealing Ring -WD
- * Seal Material NBR (Buna-N®) -B
FKM (Viton®) -V
EPDM -E
- * Material Code Steel, zinc/nickel-plated -W3

Please contact STAUFF for alternative materials and surface finishings.

Spare Parts / Accessories



Profile Sealing Ring
Type WDG

Page 206

Standard seal material is NBR (Buna-N®).

Male stud acc. to ISO 9974-2 (Type E)
Port acc. to ISO 9974-1

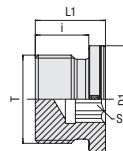
Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Torque recommendations for Steel mating material.

Please contact STAUFF prior to the assembly for further information.



Blanking Screw for Ports Type FI-VS-...-R



Ordering Codes

FI-VS-R*1/2*-W3

* Straight Male Stud Fitting

* Thread Type Whitworth Parallel Pipe Thread (BSPP)

* Thread Size acc. to dimension table

Please always indicate thread sizes, e.g. 1/2!

* Material Code Steel, zinc/nickel-plated

Please contact STAUFF for alternative materials and surface finishings.

FI-GE

R

1/2

-W3

Whitworth Parallel Pipe Thread (BSPP)

Metallic Sealing Edge

| PN (^{inch} / _{PSI}) | Dimensions (^{mm} / _{in}) | | | | | Torque (^{N-m} / _{ft-lb}) | Weight (^{kg} / _{lbs}) ca. per 100 | Ordering Codes |
|--|---|------|------|-----|-----|---|---|-----------------|
| | Thread T | D1 | L1 | i | S1 | | | |
| 400 | G 1/8 | 14 | 12,3 | 8 | 5 | 25 | 0,70 | FI-VS-R1/8-W3 |
| 5800 | | .55 | .48 | .31 | .20 | 18.5 | 1.54 | |
| 400 | G 1/4 | 18 | 17,3 | 12 | 6 | 40 | 1,80 | FI-VS-R1/4-W3 |
| 5800 | | .71 | .68 | .47 | .24 | 29.6 | 3.96 | |
| 400 | G 3/8 | 22 | 17,3 | 12 | 8 | 95 | 2,70 | FI-VS-R3/8-W3 |
| 5800 | | .87 | .68 | .47 | .31 | 70.3 | 5.94 | |
| 400 | G 1/2 | 26 | 19,3 | 14 | 10 | 130 | 4,60 | FI-VS-R1/2-W3 |
| 5800 | | 1.02 | .76 | .55 | .39 | 96.2 | 10.12 | |
| 400 | G 3/4 | 32 | 21,3 | 16 | 12 | 250 | 7,90 | FI-VS-R3/4-W3 |
| 5800 | | 1.26 | .84 | .63 | .47 | 185.0 | 17.38 | |
| 400 | G 1 | 39 | 22,8 | 16 | 17 | 400 | 12,80 | FI-VS-R1-W3 |
| 5800 | | 1.54 | .90 | .63 | .67 | 296.0 | 28.16 | |
| 315 | G 1 1/4 | 49 | 22,8 | 16 | 22 | 600 | 19,30 | FI-VS-R1-1/4-W3 |
| 4567,5 | | 1.93 | .90 | .63 | .87 | 444.0 | 42.46 | |
| 315 | G 1 1/2 | 55 | 22,8 | 16 | 24 | 800 | 26,10 | FI-VS-R1-1/2-W3 |
| 4567,5 | | 2.17 | .90 | .63 | .94 | 592.0 | 57.42 | |

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

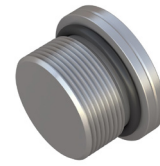
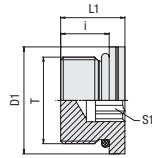
Please contact STAUFF prior to the assembly for further information.

Male stud acc. to DIN 3852-2 (Form B) / ISO 1179-4 (Type B)
Port acc. to DIN 3852-2 (Form X) / ISO 1179-1

Torque recommendations for Steel mating material.



Blanking Screw for Ports
Type FI-VS-...-M-OR



O-Ring

Metric Parallel Thread

| PN (bar/psi) | Dimensions (mm/in) | | | | | Torque (N·m/ft·lb) | Weight (kg/lbs) Ca. per 100 | Ordering Codes |
|-----------------|-----------------------|------|------|------|-----|-----------------------|-----------------------------------|-----------------------|
| | Thread T | D1 | L1 | i | S1 | | | |
| 630 | M 10 x 1 | 13,8 | 13,5 | 9,5 | 5 | 15 | 0,8 | FI-VS-M10x1-OR-B-W3 |
| 9135 | | .54 | .53 | .37 | .20 | 11.1 | 1.76 | |
| 630 | M 12 x 1,5 | 16,8 | 15,5 | 11 | 6 | 22 | 1,4 | FI-VS-M12x1.5-OR-B-W3 |
| 9135 | | .66 | .61 | .43 | .24 | 16.3 | 3.08 | |
| 630 | M 14 x 1,5 | 18,8 | 16 | 11 | 6 | 45 | 2,0 | FI-VS-M14x1.5-OR-B-W3 |
| 9135 | | .74 | .63 | .43 | .24 | 33.3 | 4.40 | |
| 630 | M 16 x 1,5 | 21,8 | 17,5 | 12,5 | 8 | 55 | 2,7 | FI-VS-M16x1.5-OR-B-W3 |
| 9135 | | .86 | .69 | .49 | .31 | 40.7 | 5.94 | |
| 630 | M 18 x 1,5 | 23,8 | 19 | 14 | 8 | 70 | 3,8 | FI-VS-M18x1.5-OR-B-W3 |
| 9135 | | .94 | .75 | .55 | .31 | 51.8 | 8.36 | |
| 630 | M 22 x 1,5 | 26,8 | 20 | 15 | 10 | 100 | 5,5 | FI-VS-M22x1.5-OR-B-W3 |
| 9135 | | 1.06 | .79 | .59 | .39 | 74.0 | 12.10 | |
| 400 | M 26 x 1,5 | 31,8 | 21 | 16 | 12 | 170 | 7,7 | FI-VS-M26x1.5-OR-B-W3 |
| 5800 | | 1.25 | .83 | .63 | .47 | 125.8 | 16.94 | |
| 400 | M 27 x 2 | 31,8 | 23,5 | 18,5 | 12 | 180 | 9,4 | FI-VS-M27x2-OR-B-W3 |
| 5800 | | 1.25 | .93 | .73 | .47 | 133.2 | 20.68 | |
| 400 | M 33 x 2 | 40,8 | 24,5 | 18,5 | 14 | 215 | 15,6 | FI-VS-M33x2-OR-B-W3 |
| 5800 | | 1.61 | .96 | .73 | .55 | 159.1 | 34.32 | |
| 400 | M 42 x 2 | 49,8 | 25 | 19 | 22 | 330 | 24,5 | FI-VS-M42x2-OR-B-W3 |
| 5800 | | 1.96 | .98 | .75 | .87 | 244.2 | 53.90 | |
| 400 | M 48 x 2 | 54,8 | 27,5 | 21,5 | 24 | 420 | 37,1 | FI-VS-M48x2-OR-B-W3 |
| 5800 | | 2.16 | 1.08 | .85 | .94 | 310.8 | 81.62 | |

Standard seal material is NBR (Buna-N®).

Male stud acc. to ISO 6149-2/-3
Port acc. to ISO 6149-1

Male threaded studs were designed for female threaded ports in components made of steel. For applications with components made of softer mating materials (e.g. Aluminium), the use of connectors with additionally rolled male threads is recommended.

Please contact STAUFF prior to the assembly for further information.

Torque recommendations for Steel mating material.

Ordering Codes

***FI-VS*-M*12x1.5*-OR*-B*-W3**

- * Blanking Screw for Ports **FI-VS**
- * Thread Type Metric Parallel Thread **M**
- * Thread Size acc. to dimension table **12x1.5**

Please always indicate thread sizes, e.g. 12x1.5!

- * Seal Type O-Ring **-OR**
- * Seal Material NBR (Buna-N®) **-B**
FKM (Viton®) **-V**
EPDM **-E**
- * Material Code Steel, zinc/nickel-plated **-W3**

Please contact STAUFF for alternative materials and surface finishings.

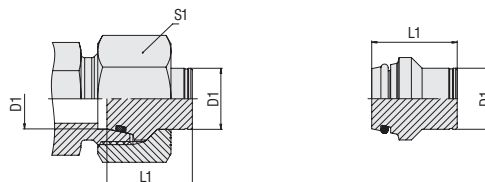
Spare Parts / Accessories

O-Ring
Type **O-RING**

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Blanking Plug with 24° Taper / O-Ring (DKO) Type FI-VD • Series L / S



Ordering Codes

FI-VD-10*L*-B*-W3*-M

| | |
|---|--|
| * Blanking Plug with 24° Taper / O-Ring (DKO) | FI-VD |
| * Outside Tube Diameter D1 (in mm) | -10 |
| * Series | Light Series L Heavy Series S |
| * Seal Material | NBR (Buna-N®) -B FKM (Viton®) -V EPDM -E |
| * Material Code | Steel, zinc/nickel-plated -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | |
| * Assembling / Kitting | Blanking plug only — Blanking plug supplied with union nut -M |

Connecting Parts



Union Nut
Type **FI-M**

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Spare Parts / Accessories



O-Ring
Type **O-RING**

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| Series | Tube OD | PN | Dimensions | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|---------------|-------|------------|----------------------------|--|-----------------------------|
| | (mm/in) D1 | | (bar/psi) | (mm/in) L1 ¹ | | |
| L | 6 | 500 | 17 | 14 | 0,55 | FI-VD-06L/S-B-W3 |
| | .24 | 7250 | .67 | .55 | 1.21 | |
| | 8 | 500 | 17 | 17 | 0,91 | FI-VD-08L/S-B-W3 |
| | .31 | 7250 | .67 | .67 | 2.02 | |
| | 10 | 500 | 20 | 19 | 1,55 | FI-VD-10L/S-B-W3 |
| | .39 | 7250 | .79 | .75 | 3.41 | |
| | 12 | 400 | 21 | 22 | 2,23 | FI-VD-12L/S-B-W3 |
| | .47 | 5800 | .83 | .87 | 4.91 | |
| | 15 | 400 | 20 | 27 | 3,60 | FI-VD-15L-B-W3 |
| | .59 | 5800 | .79 | 1.06 | 7.92 | |
| | 18 | 400 | 21 | 32 | 4,88 | FI-VD-18L-B-W3 |
| | .71 | 5800 | .83 | 1.26 | 10.74 | |
| | 22 | 250 | 23 | 36 | 7,70 | FI-VD-22L-B-W3 |
| | .87 | 3625 | .91 | 1.42 | 16.94 | |
| | 28 | 250 | 23 | 41 | 12,00 | FI-VD-28L-B-W3 |
| | 1.10 | 3625 | .91 | 1.61 | 26.40 | |
| | 35 | 250 | 29 | 50 | 24,00 | FI-VD-35L-B-W3 |
| | 1.38 | 3625 | 1.14 | 1.97 | 52.80 | |
| | 42 | 250 | 30 | 60 | 35,00 | FI-VD-42L-B-W3 |
| | 1.65 | 3625 | 1.18 | 2.36 | 77.00 | |
| S | 6 | 800 | 17 | 17 | 0,55 | FI-VD-06L/S-B-W3 |
| | .24 | 11600 | .67 | .67 | 1.21 | |
| | 8 | 800 | 17 | 19 | 0,91 | FI-VD-08L/S-B-W3 |
| | .31 | 11600 | .67 | .75 | 20.01 | |
| | 10 | 800 | 20 | 22 | 1,55 | FI-VD-10L/S-B-W3 |
| | .39 | 11600 | .79 | .87 | 3.41 | |
| | 12 | 630 | 21 | 24 | 2,23 | FI-VD-12L/S-B-W3 |
| | .47 | 9135 | .83 | .94 | 4.91 | |
| | 14 | 630 | 23 | 27 | 3,30 | FI-VD-14S-B-W3 |
| | .55 | 9135 | .91 | 1.06 | 7.26 | |
| | 16 | 630 | 24 | 30 | 4,30 | FI-VD-16S-B-W3 |
| | .63 | 9135 | .94 | 1.18 | 9.46 | |
| | 20 | 400 | 28 | 36 | 8,10 | FI-VD-20S-B-W3 |
| | .79 | 5800 | 1.10 | 1.42 | 17.82 | |
| | 25 | 400 | 31 | 46 | 13,50 | FI-VD-25S-B-W3 |
| | .98 | 5800 | 1.22 | 1.81 | 29.70 | |
| | 30 | 400 | 34 | 50 | 21,20 | FI-VD-30S-B-W3 |
| | 1.18 | 5800 | 1.34 | 1.97 | 46.64 | |
| | 38 | 400 | 38 | 60 | 36,90 | FI-VD-38S-B-W3 |
| | 1.50 | 5800 | 1.50 | 2.36 | 81.18 | |

¹ Approximate dimension in assembled condition.

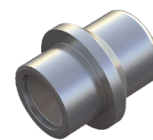
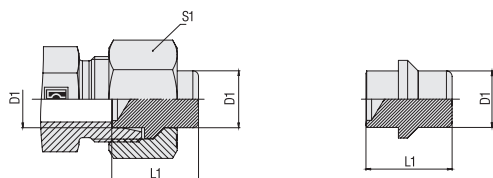
² Weight excluding union nut.

³ Standard scope of delivery: Blanking plug only.

Standard seal material is NBR (Buna-N®).



Blanking Plug with Sealing Edge Type FI-BUZ • Series L / S



| Series | Tube OD | | Dimensions | | Weight (^{kg} / _{lbs}) ca. per 100 ² | Ordering Codes ³ |
|--------|---------|-----------------|-----------------|------|--|-----------------------------|
| | (mm/in) | PN (bar/PSI) | (mm/in) | | | |
| | D1 | | L1 ¹ | S1 | | |
| L | 6 | 500 | 19,5 | 14 | 0,55 | FI-BUZ-06L/S-W3 |
| | .24 | 7250 | .77 | .55 | 1.21 | |
| | 8 | 500 | 19,5 | 17 | 0,90 | FI-BUZ-08L/S-W3 |
| | .31 | 7250 | .77 | .67 | 1.98 | |
| | 10 | 500 | 21,5 | 19 | 1,48 | FI-BUZ-10L/S-W3 |
| | .39 | 7250 | .85 | .75 | 3.57 | |
| | 12 | 400 | 22 | 22 | 2,13 | FI-BUZ-12L/S-W3 |
| | .47 | 5800 | .87 | .87 | 4.69 | |
| | 15 | 400 | 22 | 27 | 3,20 | FI-BUZ-15L-W3 |
| | .59 | 5800 | .87 | 1.06 | 7.04 | |
| | 18 | 400 | 24 | 32 | 5,00 | FI-BUZ-18L-W3 |
| | .71 | 5800 | .94 | 1.26 | 11.00 | |
| | 22 | 250 | 26 | 36 | 7,90 | FI-BUZ-22L-W3 |
| | .87 | 3625 | 1.02 | 1.42 | 17.38 | |
| | 28 | 250 | 25,5 | 41 | 11,90 | FI-BUZ-28L-W3 |
| | 1.10 | 3625 | 1.00 | 1.61 | 26.18 | |
| | 35 | 250 | 32 | 50 | 23,50 | FI-BUZ-35L-W3 |
| | 1.38 | 3625 | 1.26 | 1.97 | 51.70 | |
| | 42 | 250 | 32,5 | 60 | 38,50 | FI-BUZ-42L-W3 |
| | 1.65 | 3625 | 1.28 | 2.36 | 84.70 | |
| S | 6 | 800 | 19,5 | 17 | 0,55 | FI-BUZ-06L/S-W3 |
| | .24 | 11600 | .77 | .67 | 1.21 | |
| | 8 | 800 | 19,5 | 19 | 0,90 | FI-BUZ-08L/S-W3 |
| | .31 | 11600 | .77 | .75 | 1.98 | |
| | 10 | 800 | 21,5 | 22 | 1,48 | FI-BUZ-10L/S-W3 |
| | .39 | 11600 | .85 | .87 | 3.57 | |
| | 12 | 630 | 22 | 24 | 2,13 | FI-BUZ-12L/S-W3 |
| | .47 | 9135 | .87 | .94 | 4.69 | |
| | 14 | 630 | 23,5 | 27 | 3,12 | FI-BUZ-14S-W3 |
| | .55 | 9135 | .93 | 1.06 | 6.86 | |
| | 16 | 630 | 25,5 | 30 | 4,27 | FI-BUZ-16S-W3 |
| | .63 | 9135 | 1.00 | 1.18 | 9.93 | |
| | 20 | 400 | 30,5 | 36 | 8,00 | FI-BUZ-20S-W3 |
| | .79 | 5800 | 1.20 | 1.42 | 17.60 | |
| | 25 | 400 | 32,5 | 46 | 17,90 | FI-BUZ-25S-W3 |
| | .98 | 5800 | 1.28 | 1.81 | 39.38 | |
| | 30 | 400 | 35,5 | 50 | 20,00 | FI-BUZ-30S-W3 |
| | 1.18 | 5800 | 1.40 | 1.97 | 44.00 | |
| | 38 | 400 | 42 | 60 | 36,60 | FI-BUZ-38S-W3 |
| | 1.50 | 5800 | 1.65 | 2.36 | 80.52 | |

Ordering Codes

FI-BUZ-10*L*-W3*-M

| | |
|---|--|
| * Blanking Plug with Sealing Edge | FI-BUZ |
| * Outside Tube Diameter D1 (in mm) | -10 |
| * Series | Light Series L Heavy Series S |
| * Material Code | Steel, zinc/nickel-plated -W3 |
| Please contact STAUFF for alternative materials and surface finishings. | |
| * Assembling / Kitting | Blanking plug only — Blanking plug supplied with union nut -M |

Connecting Parts


 Union Nut
Type FI-M

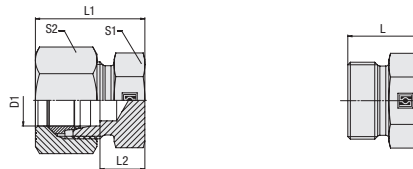
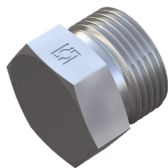
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¹ Approximate dimension in assembled condition.

² Weight excluding union nut.

³ Standard scope of delivery: Blanking plug only.


Blanking Plug for Tube Ends Type FI-VSK ▪ Series L / S



Ordering Codes

FI-VSK-10*L*-W3*-MS

- * Blanking Plug for Tube Ends **FI-VSK**
- * Outside Tube Diameter D1 (in mm) **-10**
- * Series **L**
Light Series **S**
Heavy Series
- * Material Code **-W3**
Steel, zinc/nickel-plated
- Please contact STAUFF for alternative materials and surface finishings.
- * Assembling / Kitting **—**
Blanking plug only
- Blanking plug supplied with cutting ring and union nut **-MS**
- Blanking plug supplied with soft-sealing cutting ring and union nut **-MSV**

Connecting Parts

- Cutting Ring
Type **FI-DS** Page 26
- Soft-Sealing Cutting Ring
Type **FI-WDDS** Page 27
- Support Sleeve
Type **FI-VH** Page 28
- STAUFF Form Ring
Type **FI-AR** Page 30
- Union Nut
Type **FI-M** Page 31
- 37° Flared Tube Fitting Set
Type **FI-AB** Page 35

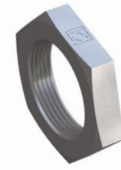
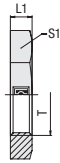
| Series | Tube OD | PN | Dimensions | | | | | Weight (kg/lbs) ca. per 100 ² | Ordering Codes ³ |
|--------|---------------|------|--------------|----------------------------|---------------|---------------|---------------|--|-----------------------------|
| | (mm/in) D1 | | (mm/in) L | (mm/in) L1 ¹ | (mm/in) L2 | (mm/in) S1 | (mm/in) S2 | | |
| L | 6 | 315 | 17 | 22 | 7 | 14 | 14 | 1,40 | FI-VSK-06L-W3 |
| | .24 | 4568 | .55 | .87 | .28 | .47 | .55 | 3,08 | |
| | 8 | 315 | 17 | 23 | 8 | 17 | 17 | 1,93 | FI-VSK-08L-W3 |
| | .31 | 4568 | .59 | .91 | .31 | .55 | .67 | 4,24 | |
| | 10 | 315 | 20 | 24 | 9 | 17 | 19 | 2,55 | FI-VSK-10L-W3 |
| | .39 | 4568 | .63 | .94 | .35 | .67 | .75 | 5,61 | |
| | 12 | 315 | 21 | 25 | 10 | 19 | 22 | 3,44 | FI-VSK-12L-W3 |
| | .47 | 4568 | .67 | .98 | .39 | .75 | .87 | 8,74 | |
| | 15 | 315 | 20 | 26 | 11 | 24 | 27 | 4,90 | FI-VSK-15L-W3 |
| | .59 | 4568 | .71 | 1.02 | .43 | .94 | 1.06 | 10,78 | |
| | 18 | 315 | 21 | 28 | 11,5 | 27 | 32 | 6,80 | FI-VSK-18L-W3 |
| | .71 | 4568 | .75 | 1.10 | .45 | 1.06 | 1.26 | 14,96 | |
| | 22 | 160 | 23 | 30 | 13,5 | 32 | 36 | 10,70 | FI-VSK-22L-W3 |
| | .87 | 2320 | .83 | 1.18 | .53 | 1.26 | 1.42 | 23,54 | |
| | 28 | 160 | 23 | 31 | 14,5 | 41 | 41 | 15,20 | FI-VSK-28L-W3 |
| | 1.10 | 2320 | .87 | 1.22 | .57 | 1.61 | 1.61 | 33,44 | |
| | 35 | 160 | 29 | 36 | 14,5 | 46 | 50 | 25,90 | FI-VSK-35L-W3 |
| | 1.38 | 2320 | .98 | 1.42 | .57 | 1.81 | 1.97 | 56,98 | |
| | 42 | 160 | 30 | 39 | 16 | 55 | 60 | 35,30 | FI-VSK-42L-W3 |
| | 1.65 | 2320 | 1.06 | 1.54 | .63 | 2.17 | 2.36 | 77,66 | |
| S | 6 | 630 | 17 | 26 | 11 | 17 | 17 | 1,80 | FI-VSK-06S-W3 |
| | .24 | 9135 | .71 | 1.02 | .43 | .55 | .67 | 3,96 | |
| | 8 | 630 | 17 | 28 | 13 | 17 | 19 | 2,16 | FI-VSK-08S-W3 |
| | .31 | 9135 | .79 | 1.10 | .51 | .67 | .75 | 4,75 | |
| | 10 | 630 | 20 | 29 | 12,5 | 19 | 22 | 3,34 | FI-VSK-10S-W3 |
| | .39 | 9135 | .79 | 1.14 | .49 | .75 | .87 | 7,35 | |
| | 12 | 630 | 21 | 31 | 14,5 | 22 | 24 | 4,60 | FI-VSK-12S-W3 |
| | .47 | 9135 | .87 | 1.22 | .57 | .87 | .94 | 10,12 | |
| | 14 | 630 | 23 | 34 | 16 | 24 | 27 | 5,88 | FI-VSK-14S-W3 |
| | .55 | 9135 | .94 | 1.34 | .63 | .94 | 1.06 | 12,94 | |
| | 16 | 400 | 24 | 34 | 15,5 | 27 | 30 | 7,54 | FI-VSK-16S-W3 |
| | .63 | 5800 | .94 | 1.34 | .61 | 1.06 | 1.18 | 16,59 | |
| | 20 | 400 | 28 | 39 | 17,5 | 32 | 36 | 12,50 | FI-VSK-20S-W3 |
| | .79 | 5800 | 1.10 | 1.54 | .69 | 1.26 | 1.42 | 27,50 | |
| | 25 | 400 | 31 | 44 | 20 | 41 | 46 | 21,40 | FI-VSK-25S-W3 |
| | .98 | 5800 | 1.26 | 1.73 | .79 | 1.61 | 1.81 | 47,08 | |
| | 30 | 400 | 34 | 47 | 20,5 | 46 | 50 | 30,40 | FI-VSK-30S-W3 |
| | 1.18 | 5800 | 1.34 | 1.85 | .81 | 1.81 | 1.97 | 76,20 | |
| 38 | 315 | 38 | 54 | 23 | 55 | 60 | 40,80 | FI-VSK-38S-W3 | |
| 1.50 | 4568 | 1.54 | 2.13 | .91 | 2.17 | 2.36 | 89,76 | | |

¹ Approximate dimension in assembled condition.

² Weight excluding cutting ring and union nut.

³ Standard scope of delivery: Blanking plug only.



Hexagon Lock Nut
 Type FI-SKM • Series L / S


for Straight Bulkhead Fittings / Bulkhead Elbows

| Series | Dimensions (mm/in) | | Weight (kg/lbs) ca. per 100 | Ordering Codes | |
|----------|-----------------------|------|-----------------------------------|-------------------|-------------------|
| | Thread T | L1 | | | S1 |
| L | M 12 x 1,5 | 6 | 17 | 0,66 | FI-SKM-06L-W3 |
| | | .24 | .67 | 1.45 | |
| | M 14 x 1,5 | 6 | 19 | 0,76 | FI-SKM-08L/06S-W3 |
| | | .24 | .75 | 1.67 | |
| | M 16 x 1,5 | 6 | 22 | 1,04 | FI-SKM-10L/08S-W3 |
| | | .24 | .87 | 2.29 | |
| | M 18 x 1,5 | 6 | 24 | 1,17 | FI-SKM-12L/10S-W3 |
| | | .24 | .94 | 2.62 | |
| | M 22 x 1,5 | 7 | 30 | 2,25 | FI-SKM-15L/14S-W3 |
| | | .28 | 1.18 | 4.95 | |
| | M 26 x 1,5 | 8 | 36 | 3,75 | FI-SKM-18L-W3 |
| | | .31 | 1.42 | 8.25 | |
| | M 30 x 2 | 8 | 41 | 4,79 | FI-SKM-22L/20S-W3 |
| | | .31 | 1.61 | 10.53 | |
| M 36 x 2 | 9 | 46 | 5,90 | FI-SKM-28L/25S-W3 | |
| | .35 | 1.81 | 12.98 | | |
| M 45 x 2 | 9 | 55 | 7,60 | FI-SKM-35L-W3 | |
| | .35 | 2.17 | 16.72 | | |
| M 52 x 2 | 10 | 65 | 12,20 | FI-SKM-42L/38S-W3 | |
| | .39 | 2.56 | 26.84 | | |
| S | M 14 x 1,5 | 6 | 19 | 0,76 | FI-SKM-08L/06S-W3 |
| | | .24 | .75 | 1.67 | |
| | M 16 x 1,5 | 6 | 22 | 1,04 | FI-SKM-10L/08S-W3 |
| | | .24 | .87 | 2.29 | |
| | M 18 x 1,5 | 6 | 24 | 1,17 | FI-SKM-12L/10S-W3 |
| | | .24 | .94 | 2.57 | |
| | M 20 x 1,5 | 6 | 27 | 1,54 | FI-SKM-12S-W3 |
| | | .24 | 1.06 | 3.39 | |
| | M 22 x 1,5 | 7 | 30 | 2,25 | FI-SKM-15L/14S-W3 |
| | | .28 | 1.18 | 4.95 | |
| | M 24 x 1,5 | 7 | 32 | 2,40 | FI-SKM-16S-W3 |
| | | .28 | 1.26 | 5.28 | |
| | M 30 x 2 | 8 | 41 | 4,79 | FI-SKM-22L/20S-W3 |
| | | .31 | 1.61 | 10.54 | |
| M 36 x 2 | 9 | 46 | 5,90 | FI-SKM-28L/25S-W3 | |
| | .35 | 1.81 | 12.98 | | |
| M 42 x 2 | 9 | 50 | 5,70 | FI-SKM-30S-W3 | |
| | .35 | 1.97 | 12.54 | | |
| M 52 x 2 | 10 | 65 | 12,20 | FI-SKM-42L/38S-W3 | |
| | .39 | 2.56 | 26.84 | | |

Ordering Codes

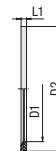
***FI-SKM*-06*L*-W3**

| | | |
|--|---------------------------|---------------|
| * Hexagon Lock Nut for Bulkhead Fittings | | FI-SKM |
| * Outside Tube Diameter D1 (in mm) | | -06 |
| * Series | Light Series | L |
| | Heavy Series | S |
| * Material Code | Steel, zinc/nickel-plated | -W3 |

Please contact STAUFF for alternative materials and surface finishings.



Profile Sealing Ring for Male Studs Type WDG



Whitworth Parallel Pipe Thread (BSPP)

Male stud acc. to ISO 1179-2 (Type E) / Port according to ISO 1179-1

| Dimensions (^{mm} / _{in}) for Thread | D1 | D2 | L1 | Ordering Codes | |
|---|--------------|--------------|------------|-----------------------|-----------------------|
| | | | | NBR (Buna-N®) | FKM (Viton®) |
| G 1/8 | 8,4 .33 | 11,9 .47 | 1 .04 | WDG-8.4x11.9x1-B90 | WDG-8.4x11.9x1-V90 |
| G 1/4 | 11,6 .46 | 16,5 .65 | 1,5 .06 | WDG-11.6x16.5x1.5-B90 | WDG-11.6x16.5x1.5-V90 |
| G 3/8 | 14,7 .58 | 18,9 .74 | 1,5 .06 | WDG-14.7x18.9x1.5-B90 | WDG-14.7x18.9x1.5-V90 |
| G 1/2 | 18,5 .73 | 23,9 .94 | 1,5 .06 | WDG-18.5x23.9x1.5-B90 | WDG-18.5x23.9x1.5-V80 |
| G 3/4 | 23,9 .94 | 29,2 1.15 | 1,5 .06 | WDG-23.9x29.2x1.5-B90 | WDG-23.9x29.2x1.5-V80 |
| G 1 | 29,7 1.17 | 35,7 1.41 | 2 .08 | WDG-29.7x35.7x2-B90 | WDG-29.7x35.7x2-V80 |
| G 1 1/4 | 38,8 1.53 | 45,8 1.80 | 2 .08 | WDG-38.8x45.8x2-B90 | WDG-38.8x45.8x2-V80 |
| G 1 1/2 | 44,7 1.76 | 50,7 2.00 | 2 .08 | WDG-44.7x50.7x2-B90 | WDG-44.7x50.7x2-V80 |

Metric Parallel Thread

Male stud according to ISO 9974-2 (Type E) / Port according to ISO 9974-1

| Dimensions (^{mm} / _{in}) for Thread | D1 | D2 | L1 | Ordering Codes | |
|---|--------------|--------------|------------|-----------------------|-----------------------|
| | | | | NBR (Buna-N®) | FKM (Viton®) |
| M 8 x 1 | 6,5 .26 | 9,9 .39 | 1 .04 | WDG-6.5x9.9x1-B90 | WDG-6.5x9.9x1-V90 |
| M 10 x 1 | 8,4 .33 | 11,9 .47 | 1 .04 | WDG-8.4x11.9x1-B90 | WDG-8.4x11.9x1-V90 |
| M 12 x 1,5 | 9,8 .39 | 14,5 .57 | 1,5 .06 | WDG-9.8x14.5x1.5-B90 | WDG-9.8x14.5x1.5-V90 |
| M 14 x 1,5 | 11,6 .46 | 16,5 .65 | 1,5 .06 | WDG-11.6x16.5x1.5-B90 | WDG-11.6x16.5x1.5-V90 |
| M 16 x 1,5 | 13,8 .54 | 18,9 .74 | 1,5 .06 | WDG-13.8x18.9x1.5-B80 | WDG-13.8x18.9x1.5-V80 |
| M 18 x 1,5 | 15,7 .62 | 20,9 .82 | 1,5 .06 | WDG-15.7x20.9x1.5-B90 | WDG-15.7x20.9x1.5-V80 |
| M 20 x 1,5 | 17,8 .70 | 22,9 .90 | 1,5 .06 | WDG-17.8x22.9x1.5-B90 | WDG-17.8x22.9x1.5-V90 |
| M 22 x 1,5 | 19,6 .77 | 24,3 .96 | 1,5 .06 | WDG-19.6x24.3x1.5-B90 | WDG-19.6x24.3x1.5-V80 |
| M 26 x 1,5 | 23,9 .94 | 29,2 1.15 | 1,5 .06 | WDG-23.9x29.2x1.5-B90 | WDG-23.9x29.2x1.5-V80 |
| M 27 x 2 | 23,9 .94 | 29,2 1.15 | 1,5 .06 | WDG-23.9x29.2x1.5-B90 | WDG-23.9x29.2x1.5-V80 |
| M 33 x 2 | 29,7 1.17 | 35,7 1.41 | 2 .08 | WDG-29.7x35.7x2-B90 | WDG-29.7x35.7x2-V80 |
| M 42 x 2 | 38,8 1.53 | 45,8 1.80 | 2 .08 | WDG-38.8x45.8x2-B90 | WDG-38.8x45.8x2-V80 |
| M 48 x 2 | 44,7 1.76 | 50,7 2.00 | 2 .08 | WDG-44.7x50.7x2-B90 | WDG-44.7x50.7x2-V80 |



O-Ring for Male Studs
 Type O-RING


Male stud according to ISO 6149-2/-3 / Port according to ISO 6149-1

Metric Parallel Thread

| Dimensions (^{mm} / _{in}) for Thread | Ordering Codes | |
|---|------------------------|------------------------|
| | NBR (Buna-N®) | FKM (Viton®) |
| M 8 x 1 | O-RING-6.07x1.63-B90 | O-RING-6.07x1.63-V90 |
| M 10 x 1 | O-RING-8.1x1.6-B90 | O-RING-8.1x1.6-V90 |
| M 12 x 1,5 | O-RING-9.3x2.2-B90 | O-RING-9.3x2.2-V90 |
| M14 x 1,5 | O-RING-11.3x2.2-B90 | O-RING-11.3x2.2-V90 |
| M16 x 1,5 | O-RING-13.3x2.2-B90 | O-RING-13.3x2.2-V90 |
| M18 x 1,5 | O-RING-15.3x2.2-B90 | O-RING-15.3x2.2-V90 |
| M22 x 1,5 | O-RING-19.3x2.2-B90 | O-RING-19.3x2.2-V90 |
| M26 x 1,5 | O-RING-23.3x2.4-B90 | O-RING-23.3x2.4-V90 |
| M27 x 2 | O-RING-23.6x2.9-B90 | O-RING-23.6x2.9-V90 |
| M30 x 2 | O-RING-26.62 x2.95-B90 | O-RING-26.62 x2.95-V90 |
| M33 x 2 | O-RING-29.6x2.9-B90 | O-RING-29.6x2.9-V90 |
| M42 x 2 | O-RING-38.6x2.9-B90 | O-RING-38.6x2.9-V90 |
| M48 x 2 | O-RING-44.6x2.9-B90 | O-RING-44.6x2.9-V90 |

Male stud according to ISO 11926-2/-3 / Port according to ISO 11926-1

UN / UNF Thread

| Dimensions (^{mm} / _{in}) for Thread | Ordering Codes | |
|---|------------------------|-------------------------|
| | NBR (Buna-N®) | FKM (Viton®) |
| 7/16-20 UNF | O-RING-8.92x1.83-B90 | O-RING-8.92x1.83-V90 |
| 1/2-20 UNF | O-RING-10.52x1.83-B90 | O-RING-10.52x1.83-V90 |
| 9/16-18 UNF | O-RING-11.89x1.98-B90 | O-RING-11.89x1.98-V90 |
| 3/4-16 UNF | O-RING-16.36x2.2-B90 | O-RING-16.36x2.2-V90 |
| 7/8-14 UNF | O-RING-19.18x2.46-B90 | O-RING-19.18x2.46-V 90 |
| 1 1/16-12 UN | O-RING-23.47x2.95-B90 | O-RING-23.47x2.95-V80 |
| 1 3/16-12 UN | O-RING-26.62 x2.95-B90 | O-RING-26.62 x 2.95-V90 |
| 1 5/16-12 UN | O-RING-29.74x2.95-90B | O-RING-29.74x2.95-V90 |
| 1 5/8-12 UN | O-RING-37.47x3-B90 | O-RING-37.47x3-V90 |
| 1 7/8-12 UN | O-RING-43.69x3-B90 | O-RING-43.69x3-V90 |

Whitworth Parallel Pipe Thread (BSPP)

| Dimensions (^{mm} / _{in}) for Thread | Ordering Codes | |
|---|-----------------------|-----------------------|
| | NBR (Buna-N®) | FKM (Viton®) |
| G 1/8 | O-RING-7,97x1,88-B90 | O-RING-7,97x1,88-V90 |
| G 1/4 | O-RING-10,77x2,62-B90 | O-RING-10,77x2,62-V90 |
| G 3/8 | O-RING-13,94x2,62-B90 | O-RING-13,94x2,62-V90 |
| G 1/2 | O-RING-17,86x2,62-B90 | O-RING-17,86x2,62-V90 |
| G 3/4 | O-RING-23,47x2,62-B90 | O-RING-23,47x2,62-V90 |
| G 1 | O-RING-29,74x3,53-B90 | O-RING-29,74x3,53-V90 |
| G 1 1/4 | O-RING-37,69x3,53-B90 | O-RING-37,69x3,53-V90 |
| G 1 1/2 | O-RING-44,04x3,53-B90 | O-RING-44,04x3,53-V90 |



O-Ring for 24°/37° Flared Cone Adaptors

Type O-RING



24° Taper of the Flared Cone Adaptor

| Series | Tube OD (mm/in) | Ordering Codes | |
|--------|--------------------|---------------------|---------------------|
| | | NBR (Buna-N®) | FKM (Viton®) |
| L | 6 | 0-RING-4.5x1.5-B90 | 0-RING-4.5x1.5-V90 |
| | .24 | | |
| | 8 | 0-RING-6.5x1.5-B90 | 0-RING-6.5x1.5-V90 |
| | .31 | | |
| | 10 | 0-RING-8.5x1.5-B90 | 0-RING-8.5x1.5-V90 |
| | .39 | | |
| | 12 | 0-RING-10x1.5-B90 | 0-RING-10x1.5-V90 |
| | .47 | | |
| | 15 | 0-RING-12.5x2-B90 | 0-RING-12.5x2-V90 |
| | .59 | | |
| | 18 | 0-RING-16x2-B90 | 0-RING-16x2-V90 |
| | .71 | | |
| | 22 | 0-RING-20x2-B90 | 0-RING-20x2-V90 |
| | .87 | | |
| | 28 | 0-RING-26x2-B90 | 0-RING-26x2-V90 |
| | 1.10 | | |
| | 35 | 0-RING-32x2.5-B90 | 0-RING-32x2.5-V90 |
| 1.38 | | | |
| 42 | 0-RING-38x2.5-B90 | 0-RING-38x2.5-V90 | |
| 1.65 | | | |
| S | 6 | 0-RING-4.5x1.5-B90 | 0-RING-4.5x1.5-V90 |
| | .24 | | |
| | 8 | 0-RING-6.5x1.5-B90 | 0-RING-6.5x1.5-V90 |
| | .31 | | |
| | 10 | 0-RING-8.5x1.5-B90 | 0-RING-8.5x1.5-V90 |
| | .39 | | |
| | 12 | 0-RING-10x1.5-B90 | 0-RING-10x1.5-V90 |
| | .47 | | |
| | 14 | 0-RING-12x2-B90 | 0-RING-12x2-V90 |
| | .55 | | |
| | 16 | 0-RING-14x2-B90 | 0-RING-14x2-V90 |
| | .63 | | |
| | 20 | 0-RING-17.3x2.4-B90 | 0-RING-17.3x2.4-V90 |
| | .79 | | |
| | 25 | 0-RING-22.3x2.4-B90 | 0-RING-22.3x2.4-V90 |
| | .98 | | |
| | 30 | 0-RING-27.3x2.4-B90 | 0-RING-27.3x2.4-V90 |
| 1.18 | | | |
| 38 | 0-RING-35x2.5-B90 | 0-RING-35x2.5-V90 | |
| 1.50 | | | |



O-Ring for 24°/37° Flared Cone Adaptors Type O-RING



37° Taper of the Flared Cone Adaptor

| Series | Tube OD (mm/in) | Ordering Codes | |
|--------|--------------------|---------------------|---------------------|
| | | NBR (Buna-N®) | FKM (Viton®) |
| L | 6 | O-RING-4.4x0.8-B90 | O-RING-4.4x0.8-V90 |
| | .24 | | |
| | 8 | O-RING-6x0.8-B90 | O-RING-6x0.8-V90 |
| | .31 | | |
| | 10 | O-RING-7.5x0.8-B90 | O-RING-7.5x0.8-V90 |
| | .39 | | |
| | 12 | O-RING-9.5x0.8-B90 | O-RING-9.5x0.8-V90 |
| | .47 | | |
| | 15 | O-RING-12.5x0.8-B90 | O-RING-12.5x0.8-V90 |
| | .59 | | |
| | 18 | O-RING-15x1-B90 | O-RING-15x1-V90 |
| | .71 | | |
| | 22 | O-RING-18x1-B90 | O-RING-18x1-V90 |
| | .87 | | |
| | 28 | O-RING-23x1-B90 | O-RING-23x1-V90 |
| | 1.10 | | |
| | 35 | O-RING-30x1-B90 | O-RING-30x1-V90 |
| 1.38 | | | |
| 42 | O-RING-37x1-B90 | O-RING-37x1-V90 | |
| 1.65 | | | |
| S | 6 | O-RING-4.4x0.8-B90 | O-RING-4.4x0.8-V90 |
| | .24 | | |
| | 8 | O-RING-6x0.8-B90 | O-RING-6x0.8-V90 |
| | .31 | | |
| | 10 | O-RING-7.5x0.8-B90 | O-RING-7.5x0.8-V90 |
| | .39 | | |
| | 12 | O-RING-9.5x0.8-B90 | O-RING-9.5x0.8-V90 |
| | .47 | | |
| | 14 | O-RING-11x1-B90 | O-RING-11x1-V90 |
| | .55 | | |
| | 16 | O-RING-12.5x1-B90 | O-RING-12.5x1-V90 |
| | .63 | | |
| | 20 | O-RING-16x1-B90 | O-RING-16x1-V90 |
| | .79 | | |
| | 25 | O-RING-20x1-B90 | O-RING-20x1-V90 |
| | .98 | | |
| | 30 | O-RING-25x1-B90 | O-RING-25x1-V90 |
| 1.18 | | | |
| 38 | O-RING-32x1.8-B90 | O-RING-32x1.8-V90 | |
| 1.50 | | | |



O-Ring for for DKO Taper Fittings / 24° Weld Cones Type O-RING



| Series | Tube OD (mm/in) | Ordering Codes | |
|--------|---------------------|---------------------|---------------------|
| | | NBR (Buna-N®) | FKM (Viton®) |
| L | 6 | 0-RING-4.5x1.5-B90 | 0-RING-4.5x1.5-V90 |
| | .24 | | |
| | 8 | 0-RING-6.5x1.5-B90 | 0-RING-6.5x1.5-V90 |
| | .31 | | |
| | 10 | 0-RING-8.5x1.5-B90 | 0-RING-8.5x1.5-V90 |
| | .39 | | |
| | 12 | 0-RING-10x1.5-B90 | 0-RING-10x1.5-V90 |
| | .47 | | |
| | 15 | 0-RING-12.5x2-B90 | 0-RING-12.5x2-V90 |
| | .59 | | |
| | 18 | 0-RING-16x2-B90 | 0-RING-16x2-V90 |
| | .71 | | |
| | 22 | 0-RING-20x2-B90 | 0-RING-20x2-V90 |
| | .87 | | |
| | 28 | 0-RING-26x2-B90 | 0-RING-26x2-V90 |
| | 1.10 | | |
| 35 | 0-RING-32x2.5-B90 | 0-RING-32x2.5-V90 | |
| 1.38 | | | |
| 42 | 0-RING-38x2.5-B90 | 0-RING-38x2.5-V90 | |
| 1.65 | | | |
| S | 6 | 0-RING-4.5x1.5-B90 | 0-RING-4.5x1.5-V90 |
| | .24 | | |
| | 8 | 0-RING-6.5x1.5-B90 | 0-RING-6.5x1.5-V90 |
| | .31 | | |
| | 10 | 0-RING-8.5x1.5-B90 | 0-RING-8.5x1.5-V90 |
| | .39 | | |
| | 12 | 0-RING-10x1.5-B90 | 0-RING-10x1.5-V90 |
| | .47 | | |
| | 14 | 0-RING-12x2-B90 | 0-RING-12x2-V90 |
| | .55 | | |
| | 16 | 0-RING-14x2-B90 | 0-RING-14x2-V90 |
| | .63 | | |
| | 20 | 0-RING-17.3x2.4-B90 | 0-RING-17.3x2.4-V90 |
| | .79 | | |
| | 25 | 0-RING-22.3x2.4-B90 | 0-RING-22.3x2.4-V90 |
| | .98 | | |
| 30 | 0-RING-27.3x2.4-B90 | 0-RING-27.3x2.4-V90 | |
| 1.18 | | | |
| 38 | 0-RING-35x2.5-B90 | 0-RING-35x2.5-V90 | |
| 1.50 | | | |



O-Ring for Banjo Bolts of Banjo Fittings Type O-RING



| Dimensions (^{mm} / _{in}) | | Ordering Codes | |
|---|--------------------------|--------------------|--------------------|
| for Thread | for Tube Size / Series | NBR (Buna-N®) | FKM (Viton®) |
| G 1/8 | 4LL / 6LL / 8LL / 6L | O-RING-8.5x1.5-B90 | O-RING-8.5x1.5-V90 |
| G 1/4 | 8L / 10L / 12L / 6S / 8S | O-RING-11x2-B90 | O-RING-11x2-V90 |
| G 3/8 | 12L / 10S / 12S | O-RING-14.5x2-B90 | O-RING-14.5x2-V90 |
| G 1/2 | 15L / 18L / 14S / 16S | O-RING-19.5x2-B90 | O-RING-19.5x2-V90 |
| G 3/4 | 22L / 20S | O-RING-26x1.5-B90 | O-RING-26x1.5-V90 |
| G 1 | 28L / 25S | O-RING-31x2-B90 | O-RING-31x2-V90 |
| G 1 1/4 | 35L / 30S | O-RING-40x2-B90 | O-RING-40x2-V90 |
| G 1 1/2 | 42L / 38S | O-RING-46x2-B90 | O-RING-46x2-V90 |
| M 8 x 1 | 4LL | O-RING-6.5x1.5-B90 | O-RING-6.5x1.5-V90 |
| M 10 x 1 | 6LL / 8LL / 6L | O-RING-8.5x1.5-B90 | O-RING-8.5x1.5-V90 |
| M 12 x 1,5 | 8L / 6S | O-RING-11x2-B90 | O-RING-11x2-V90 |
| M 14 x 1,5 | 10L / 8S / 12L | O-RING-11x2-B90 | O-RING-11x2-V90 |
| M 16 x 1,5 | 12L / 10S | O-RING-14.5x2-B90 | O-RING-14.5x2-V90 |
| M 18 x 1,5 | 12L / 10S | O-RING-14.5x2-B90 | O-RING-14.5x2-V90 |
| M 18 x 1,5 | 15L / 12S | O-RING-16.5x2-B90 | O-RING-16.5x2-V90 |
| M 20 x 1,5 | 14S | O-RING-19.5x2-B90 | O-RING-19.5x2-V90 |
| M 22 x 1,5 | 18L / 16S | O-RING-19.5x2-B90 | O-RING-19.5x2-V90 |
| M 26 x 1,5 | 22L | O-RING-26x1.5-B90 | O-RING-26x1.5-V90 |
| M 27 x 2 | 20S | O-RING-26x1.5-B90 | O-RING-26x1.5-V90 |
| M 33 x 2 | 28L / 25S | O-RING-31x2-B90 | O-RING-31x2-V90 |
| M 42 x 2 | 35L / 30S | O-RING-40x2-B90 | O-RING-40x2-V90 |
| M 48 x 2 | 42L / 38S | O-RING-46x2-B90 | O-RING-46x2-V90 |



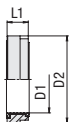
External Metallic Sealing Ring for Male Studs of Banjo Fittings Type FI-DKR



| Dimensions (^{mm} / _{in}) for Thread | | D1 | D2 | L1 | Ordering Codes |
|---|---------|------|------|-----|------------------------------------|
| M 8 x 1 | | 8,05 | 10,8 | 4 | FI-DKR-M8x1-W3-WOB |
| | | .32 | .43 | .16 | |
| M 10 x 1 | G 1/8 | 10,1 | 13 | 4 | FI-DKR-M10x1-R1/8-W3-WOB |
| | | .40 | .51 | .16 | |
| M 12 x 1,5 | | 12,2 | 17,8 | 4 | FI-DKR-M12x1.5-W3-WOB |
| | | .48 | .70 | .16 | |
| | G 1/4 | 13,2 | 17,7 | 4 | FI-DKR-R1/4-W3-WOB |
| | | .52 | .70 | .16 | |
| M 14 x 1,5 | | 14,1 | 17,7 | 4,4 | FI-DKR-M14x1.5-W3-WOB |
| | | .56 | .70 | .17 | |
| M 16 x 1,5 | | 16,1 | 21,5 | 5 | FI-DKR-M16x1.5-W3-WOB |
| | | .63 | .85 | .20 | |
| | G 3/8 | 16,7 | 22 | 5 | FI-DKR-R3/8-W3-WOB |
| | | .66 | .87 | .20 | |
| M 18 x 1,5 | | 18,1 | 23 | 5 | FI-DKR-M18x1.5-W3-WOB |
| | | .71 | .91 | .20 | |
| | G 1/2 | 21 | 26 | 7 | FI-DKR-18L/16S-R1/2-W3-WOB |
| | | .83 | 1.02 | .28 | |
| M 20 x 1,5 | G 1/2 | 21 | 26 | 5 | FI-DKR-15L/14S-M20x1.5-R1/2-W3-WOB |
| | | .83 | 1.02 | .20 | |
| M 22 x 1,5 | | 22,1 | 27 | 7 | FI-DKR-M22x1.5-W3-WOB |
| | | .87 | 1.06 | .28 | |
| M 26 x 1,5 | | 26,1 | 31,5 | 5,5 | FI-DKR-M26x1.5-W3-WOB |
| | | 1.03 | 1.24 | .22 | |
| M 27 x 2 | G 3/4 | 27,1 | 32 | 5,5 | FI-DKR-M27x2-R3/4-W3-WOB |
| | | 1.07 | 1.26 | .22 | |
| M 33 x 2 | | 33,3 | 39 | 5,5 | FI-DKR-M33x2-R1-W3-WOB |
| | | 1.31 | 1.54 | .22 | |
| M 42 x 2 | G 1 1/4 | 42,1 | 49 | 5,5 | FI-DKR-M42x2-R1-1/4-W3-WOB |
| | | 1.66 | 1.93 | .22 | |
| M 48 x 2 | G 1 1/2 | 48,1 | 55 | 5,5 | FI-DKR-M48x2-R1-1/2-W3-WOB |
| | | 1.89 | 2.17 | .22 | |



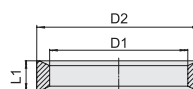
Retaining Ring with Captive Seal for Male Studs of Banjo Fittings Type FI-DIR



| Dimensions (^{mm} / _{in}) for Thread | | D1 | D2 | L1 | Ordering Codes |
|---|------------------------|------|------|-----|--------------------------|
| M 10 x 1 | G 1/8 | 10,2 | 14,9 | 4 | FI-DIR-M10x1-R1/8-B-W3 |
| | | .40 | .59 | .16 | |
| M 12 x 1,5 | | 12,2 | 17,8 | 4 | FI-DIR-M12x1.5-B-W3 |
| | | .48 | .70 | .16 | |
| | G 1/4 | 13,3 | 18,8 | 4 | FI-DIR-R1/4-B-W3 |
| | | .52 | .74 | .16 | |
| M 14 x 1,5 | | 14,1 | 19,9 | 4 | FI-DIR-M14x1.5-B-W3 |
| M 16 x 1,5 | G 3/8 | 16,8 | 22,8 | 4,4 | FI-DIR-M16x1.5-R3/8-B-W3 |
| | | .66 | .90 | .17 | |
| M 18 x 1,5 | | 18,1 | 25,8 | 5 | FI-DIR-M18x1.5-B-W3 |
| | | .71 | 1.02 | .20 | |
| M 18 x 1,5 (only 12L) | | 18,1 | 23,8 | 5 | FI-DIR-12LM18x1.5-B-W3 |
| | | .71 | .94 | .20 | |
| | G 1/2 (only 15L / 14S) | 21 | 28,8 | 5 | FI-DIR-15L/14S-R1/2-B-W3 |
| | | .83 | 1.13 | .20 | |
| | G 1/2 (only 18L / 16S) | 21 | 28,8 | 7 | FI-DIR-18L/16S-R1/2-B-W3 |
| | | .83 | 1.13 | .28 | |
| M 22 x 1,5 | | 22,1 | 28,8 | 7 | FI-DIR-M22x1.5-B-W3 |
| | | .87 | 1.13 | .28 | |
| M 26 x 1,5 | | 26,1 | 34,8 | 5,5 | FI-DIR-M26x1.5-B-W3 |
| | | 1.03 | 1.37 | .22 | |
| M 27 x 2 | G 3/4 | 27 | 34,8 | 5,5 | FI-DIR-M27x2-R3/4-B-W3 |
| | | 1.06 | 1.37 | .22 | |
| M 33 x 2 | G 1 | 33,4 | 41,8 | 5,5 | FI-DIR-M33x2-R1-B-W3 |
| | | 1.31 | 1.65 | .22 | |
| M 42 x 2 | G 1 1/4 | 42,1 | 51,8 | 5,5 | FI-DIR-M42x2-R1-1/4-B-W3 |
| | | 1.66 | 2.04 | .22 | |
| M 48 x 2 | G 1 1/2 | 47,8 | 57,9 | 5,5 | FI-DIR-M48x2-R1-1/2-B-W3 |
| | | 1.88 | 2.28 | .22 | |

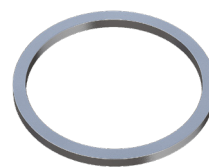
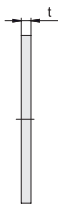
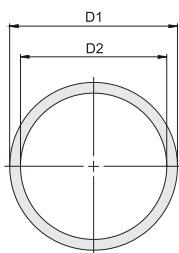


Internal Metallic Sealing Ring for Female Studs of Gauge Fittings Type FI-DKI



| Dimensions (^{mm} / _{in}) for Thread | | | | Ordering Codes |
|---|-----|------|-----|--------------------|
| | D1 | D2 | L1 | |
| G 1/4 | 6 | 11,3 | 4,5 | FI-DKI-R1/4-W3-W0B |
| | .24 | .44 | .18 | |
| G 1/2 | 12 | 18,5 | 5 | FI-DKI-R1/2-W3-W0B |
| | .47 | .73 | .20 | |


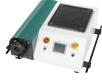






















Retaining Ring (Small) for Male Studs of Fittings with Lock Nut
 Type FI-KR


| Dimensions (mm/in) for Thread | D1 | D2 | t | Ordering Codes |
|-------------------------------------|--------------|--------------|------------|-----------------------|
| G 1/8 | 14,8 .58 | 11,8 .46 | 1,4 .06 | FI-KR-R1/8-W3-WOB |
| G 1/4 | 19,8 .78 | 16,15 .64 | 1,9 .07 | FI-KR-R1/4-W3-WOB |
| G 3/8 | 22,8 .90 | 19,4 .76 | 1,9 .07 | FI-KR-R3/8-W3-WOB |
| G 1/2 | 27,8 1.09 | 23,2 .91 | 1,9 .07 | FI-KR-R1/2-W3-WOB |
| G 3/4 | 32,8 1.29 | 28,6 1.13 | 1,9 .07 | FI-KR-R3/4-W3-WOB |
| G 1 | 40,8 1.61 | 36,6 1.44 | 2,6 .10 | FI-KR-R1-W3-WOB |
| G 1 1/4 | 50,8 2.00 | 44,9 1.77 | 2,6 .10 | FI-KR-R1-1/4-W3-WOB |
| G 1 1/2 | 55,8 2.20 | 50,9 2.00 | 2,6 .10 | FI-KR-R1-1/2-W3-WOB |
| M 10 x 1 | 14,8 .58 | 11,4 .45 | 1,1 .04 | FI-KR-M10x1-W3-WOB |
| M 12 x 1,5 | 17,8 .70 | 13,9 .55 | 1,7 .07 | FI-KR-M12x1.5-W3-WOB |
| M 14 x 1,5 | 19,8 .78 | 15,9 .63 | 1,7 .07 | FI-KR-M14x1.5--W3-WOB |
| M 16 x 1,5 | 22,8 .90 | 17,9 .70 | 1,7 .07 | FI-KR-M16x1.5-W3-WOB |
| M 18 x 1,5 | 24,8 .98 | 19,9 .78 | 1,7 .07 | FI-KR-M18x1.5-W3-WOB |
| M 22 x 1,5 | 27,8 1.09 | 23,9 .94 | 1,7 .07 | FI-KR-M22x1.5-W3-WOB |
| M 27 x 2 | 32,8 1.29 | 29,6 1.17 | 2,2 .09 | FI-KR-M27x2-W3-WOB |
| M 33 x 2 | 40,8 1.61 | 35,6 1.40 | 2,2 .09 | FI-KR-M33x2-W3-WOB |
| M 42 x 2 | 50,8 2.00 | 44,6 1.76 | 2,2 .09 | FI-KR-M42x2-W3-WOB |
| M 48 x 2 | 55,8 2.20 | 50,6 1.99 | 2,2 .09 | FI-KR-M48x2-W3-WOB |
| 7/16-20 UNF | 17 .67 | 13 .51 | 1,3 .05 | FI-KR-7/16U-W3-WOB |
| 9/16-18 UNF | 21 .83 | 16,1 .63 | 1,4 .06 | FI-KR-9/16U-W3-WOB |
| 3/4-16 UNF | 26,5 1.04 | 21 .83 | 1,6 .06 | FI-KR-3/4U-W3-WOB |
| 7/8-14 UNF | 30 1.18 | 24,3 .96 | 1,8 .07 | FI-KR-7/8U-W3-WOB |
| 1 1/16-12 UN | 37,5 1.48 | 29,6 1.17 | 2,2 .09 | FI-KR-1-1/16U-W3-WOB |
| 1 5/16-12 UN | 45 1.77 | 35,8 1.41 | 2,2 .09 | FI-KR-1-5/16U-W3-WOB |
| 1 5/8-12 UN | 56,5 2.22 | 43,7 1.72 | 2,2 .09 | FI-KR-1-5/8U-W3-WOB |
| 1 7/8-12 UN | 64 2.52 | 49,9 1.96 | 2,2 .09 | FI-KR-1-7/8U-W3-WOB |

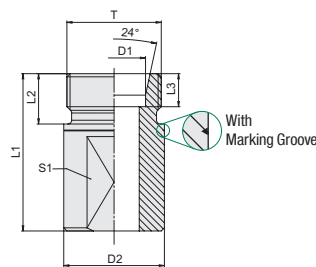




| | | | | | |
|---|---|-----|---|---|-----|
|  | Final Assembly Stud for the Manual Cutting Ring Assembly FI-FK | 218 |  | STAUFF Form Tube Forming Machine SFO-F | 234 |
|  | Pre-Assembly Stud for the Manual Cutting Ring Assembly FI-VK | 219 |  | Tube Shapers FI-FST | 236 |
|  | Cutting Ring Pre-Assembly and Final Assembly Machine SPR-PRC-POC | 220 |  | Internal Tube Supports FI-ID | 236 |
|  | Cutting Ring Assembly Stud for Machine-Assisted Assembly FI-MFK | 222 |  | Clamping Jaws FI-FB | 237 |
|  | Support Plate for Machine-Assisted Assembly FI-GP | 223 |  | STAUFF Clean Pipe, Tube and Hose Cleaning System SC | 238 |
|  | Cutting Ring Pre-Assembly and 37° Flaring Machine with Automatic / Manual Pressure Setting SPR-PRC-MA | 224 |  | Thread Identification Board FI-TIB | 240 |
|  | Tooling Head for Cutting Ring Assembly (Automatic Pressure Setting) SPR-PRC-TH-C-A | 226 |  | Manual Tube Bender TUB-MA | 241 |
|  | Tooling Head for Cutting Ring Assembly (Manual Pressure Setting) SPR-PRC-TH-C-M | 226 | | | |
|  | Tooling Head for 37° Flaring (Manual Pressure Setting) SPR-PRC-TH-F-M | 226 | | | |
| | External Foot Control Switch SPR-PRC-FS | 226 | | | |
|  | Assembly Tool Magazine SPR-TM | 226 | | | |
|  | Cutting Ring Assembly Stud for Machine-Assisted Assembly FI-MVK-PRC | 227 | | | |
|  | Support Plate for Machine-Assisted Assembly FI-GP-PRC | 228 | | | |
|  | Clamping Jaws for 37° Flaring FI-KB-PRC | 229 | | | |
|  | Portable Cutting Ring Assembly Machine with Manual Pressure Setting (Set) SPR-PRC-H-SET | 230 | | | |
|  | Cutting Ring Assembly Stud for Machine-Assisted Assembly FI-MVK-PRC-H-M | 232 | | | |



Final Assembly Stud for the Manual Cutting Ring Assembly Type FI-FK • Series LL / L / S

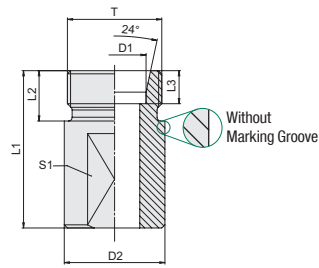


| Series | Tube OD | | Dimensions | | | | | Weight (^{kg} / _{lbs}) ca. per 100 | Ordering Codes |
|--------|----------|------------|------------|----------|------|------|--------|---|----------------|
| | (mm/in) | (mm/in) | D1 | Thread T | D2 | L1 | L2 | | |
| LL | 4 | M 8 x 1 | 14 | 40 | 8 | 4 | 11 | 3,74 | FI-FK-04LL-HR |
| | .16 | | .55 | 1.57 | .31 | .16 | .43 | 8.23 | |
| | 6 | M 10 x 1 | 14 | 40 | 8 | 4 | 11 | 3,81 | FI-FK-06LL-HR |
| | .24 | | .55 | 1.57 | .31 | .22 | .43 | 8.39 | |
| 8 | M 12 x 1 | 14 | 41 | 9 | 5,5 | 11 | 4,00 | FI-FK-08LL-HR | |
| .31 | | .55 | 1.61 | .35 | .22 | .43 | 8.81 | | |
| L | 6 | M 12 x 1,5 | 14 | 43 | 10 | 7 | 11 | 4,21 | FI-FK-06L-HR |
| | .24 | | .55 | 1.69 | .39 | .28 | .43 | 9.26 | |
| | 8 | M 14 x 1,5 | 15 | 43 | 10 | 7 | 12 | 4,96 | FI-FK-08L-HR |
| | .31 | | .59 | 1.69 | .39 | .28 | .47 | 10.90 | |
| | 10 | M 16 x 1,5 | 17 | 44 | 11 | 7 | 14 | 6,57 | FI-FK-10L-HR |
| | .39 | | .67 | 1.73 | .43 | .28 | .55 | 14.46 | |
| | 12 | M 18 x 1,5 | 20 | 44 | 11 | 7 | 17 | 9,06 | FI-FK-12L-HR |
| | .47 | | .79 | 1.73 | .43 | .28 | .67 | 19.92 | |
| | 15 | M 22 x 1,5 | 23 | 45 | 12 | 7 | 19 | 12,34 | FI-FK-15L-HR |
| | .59 | | .91 | 1.77 | .47 | .28 | .75 | 27.14 | |
| | 18 | M 26 x 1,5 | 29 | 46 | 12 | 7,5 | 24 | 19,62 | FI-FK-18L-HR |
| | .71 | | 1.14 | 1.81 | .47 | .30 | .94 | 43.16 | |
| | 22 | M 30 x 2 | 32 | 48 | 14 | 7,5 | 27 | 25,11 | FI-FK-22L-HR |
| | .87 | | 1.26 | 1.89 | .55 | .30 | 1.06 | 55.23 | |
| | 28 | M 36 x 2 | 38 | 48 | 14 | 7,5 | 32 | 35,07 | FI-FK-28L-HR |
| | 1.10 | | 1.50 | 1.89 | .55 | .30 | 1.26 | 77.15 | |
| 35 | M 45 x 2 | 48 | 60 | 16 | 10,5 | 41 | 69,87 | FI-FK-35L-HR | |
| 1.38 | | 1.89 | 2.36 | .63 | .41 | 1.61 | 153.71 | | |
| 42 | M 52 x 2 | 54 | 60 | 16 | 11 | 46 | 87,41 | FI-FK-42L-HR | |
| 1.65 | | 2.13 | 2.36 | .63 | .43 | 1.81 | 192.31 | | |
| S | 6 | M 14 x 1,5 | 15 | 45 | 12 | 7 | 12 | 5,34 | FI-FK-06S-HR |
| | .24 | | .59 | 1.77 | .47 | .28 | .47 | 11.75 | |
| | 8 | M 16 x 1,5 | 17 | 45 | 12 | 7 | 14 | 6,92 | FI-FK-08S-HR |
| | .31 | | .67 | 1.77 | .47 | .28 | .55 | 15.23 | |
| | 10 | M 18 x 1,5 | 20 | 45 | 12 | 7,5 | 17 | 9,44 | FI-FK-10S-HR |
| | .39 | | .79 | 1.77 | .47 | .30 | .67 | 20.78 | |
| | 12 | M 20 x 1,5 | 22 | 45 | 12 | 7,5 | 17 | 10,87 | FI-FK-12S-HR |
| | .47 | | .87 | 1.77 | .47 | .30 | .67 | 23.92 | |
| | 14 | M 22 x 1,5 | 24 | 47 | 14 | 8 | 19 | 13,59 | FI-FK-14S-HR |
| | .55 | | .94 | 1.85 | .55 | .31 | .75 | 29.90 | |
| | 16 | M 24 x 1,5 | 27 | 48 | 14 | 8,5 | 22 | 17,49 | FI-FK-16S-HR |
| | .63 | | 1.06 | 1.89 | .55 | .33 | .87 | 38.48 | |
| | 20 | M 30 x 2 | 32 | 50 | 16 | 10,5 | 27 | 25,83 | FI-FK-20S-HR |
| | .79 | | 1.26 | 1.97 | .63 | .41 | 1.06 | 56.82 | |
| 25 | M 36 x 2 | 38 | 62 | 18 | 12 | 32 | 46,15 | FI-FK-25S-HR | |
| .98 | | 1.50 | 2.44 | .71 | .47 | 1.26 | 101.54 | | |
| 30 | M 42 x 2 | 44 | 64 | 20 | 13,5 | 36 | 62,34 | FI-FK-30S-HR | |
| 1.18 | | 1.73 | 2.52 | .79 | .53 | 1.42 | 137.15 | | |
| 38 | M 52 x 2 | 54 | 66 | 22 | 16 | 46 | 95,92 | FI-FK-38S-HR | |
| 1.50 | | 2.13 | 2.60 | .87 | .63 | 1.81 | 211.03 | | |

Materials / surface finishings: HR Steel, uncoated, hardened

P



**Pre-Assembly Stud for the Manual Cutting Ring Assembly
Type FI-VK - Series LL / L / S**


| Series | Tube OD | | Dimensions | | | | | Weight (kg/lbs) ca. per 100 | Ordering Codes |
|--------|----------|------------|------------|----------|------|------|--------|-----------------------------------|----------------|
| | (mm/in) | (mm/in) | D1 | Thread T | D2 | L1 | L2 | | |
| LL | 4 | M 8 x 1 | 14 | 25 | 8 | 4,3 | 11 | 2,11 | FI-VK-04LL-HR |
| | .16 | | .55 | .98 | .31 | .17 | .43 | 4,64 | |
| | 6 | M 10 x 1 | 14 | 25 | 8 | 5,8 | 11 | 2,18 | FI-VK-06LL-HR |
| .24 | .55 | | .98 | .31 | .23 | .43 | 4,79 | | |
| LL | 8 | M 12 x 1 | 14 | 26 | 9 | 5,8 | 11 | 2,36 | FI-VK-08LL-HR |
| | .31 | | .55 | 1.02 | .35 | .23 | .43 | 5,20 | |
| L | 6 | M 12 x 1,5 | 14 | 28 | 10 | 7,3 | 11 | 2,57 | FI-VK-06L-HR |
| | .24 | | .55 | 1.10 | .39 | .29 | .43 | 5,66 | |
| | 8 | M 14 x 1,5 | 15 | 28 | 10 | 7,3 | 12 | 3,05 | FI-VK-08L-HR |
| | .31 | | .59 | 1.10 | .39 | .29 | .47 | 6,71 | |
| | 10 | M 16 x 1,5 | 17 | 29 | 11 | 7,3 | 14 | 4,07 | FI-VK-10L-HR |
| | .39 | | .67 | 1.14 | .43 | .29 | .55 | 8,96 | |
| | 12 | M 18 x 1,5 | 20 | 29 | 11 | 7,3 | 17 | 5,53 | FI-VK-12L-HR |
| | .47 | | .79 | 1.14 | .43 | .29 | .67 | 12,16 | |
| | 15 | M 22 x 1,5 | 23 | 30 | 12 | 7,3 | 19 | 7,75 | FI-VK-15L-HR |
| | .59 | | .91 | 1.18 | .47 | .29 | .75 | 17,04 | |
| | 18 | M 26 x 1,5 | 29 | 31 | 12 | 7,8 | 24 | 12,31 | FI-VK-18L-HR |
| | .71 | | 1.14 | 1.22 | .47 | .31 | .94 | 27,08 | |
| | 22 | M 30 x 2 | 32 | 33 | 14 | 7,8 | 27 | 16,08 | FI-VK-22L-HR |
| | .87 | | 1.26 | 1.30 | .55 | .31 | 1.06 | 35,38 | |
| | 28 | M 36 x 2 | 38 | 33 | 14 | 7,8 | 32 | 22,34 | FI-VK-28L-HR |
| 1.10 | 1.50 | | 1.30 | .55 | .31 | 1.26 | 49,15 | | |
| 35 | M 45 x 2 | 48 | 45 | 16 | 10,8 | 41 | 49,40 | FI-VK-35L-HR | |
| 1.38 | | 1.89 | 1.77 | .63 | .43 | 1.61 | 108,67 | | |
| 42 | M 52 x 2 | 54 | 45 | 16 | 11,3 | 46 | 61,50 | FI-VK-42L-HR | |
| 1.65 | | 2.13 | 1.77 | .63 | .44 | 1.81 | 135,31 | | |
| S | 6 | M 14 x 1,5 | 15 | 30 | 12 | 7,3 | 12 | 3,43 | FI-VK-06S-HR |
| | .24 | | .59 | 1.18 | .47 | .29 | .47 | 7,55 | |
| | 8 | M 16 x 1,5 | 17 | 30 | 12 | 7,3 | 14 | 4,43 | FI-VK-08S-HR |
| | .31 | | .67 | 1.18 | .47 | .29 | .55 | 9,75 | |
| | 10 | M 18 x 1,5 | 20 | 30 | 12 | 7,8 | 17 | 5,92 | FI-VK-10S-HR |
| | .39 | | .79 | 1.18 | .47 | .31 | .67 | 13,03 | |
| | 12 | M 20 x 1,5 | 22 | 30 | 12 | 7,8 | 17 | 6,87 | FI-VK-12S-HR |
| | .47 | | .87 | 1.18 | .47 | .31 | .67 | 15,11 | |
| | 14 | M 22 x 1,5 | 24 | 32 | 14 | 8,3 | 19 | 8,74 | FI-VK-14S-HR |
| | .55 | | .94 | 1.26 | .55 | .33 | .75 | 19,23 | |
| | 16 | M 24 x 1,5 | 27 | 33 | 14 | 8,8 | 22 | 11,23 | FI-VK-16S-HR |
| | .63 | | 1.06 | 1.30 | .55 | .35 | .87 | 24,70 | |
| | 20 | M 30 x 2 | 32 | 35 | 16 | 10,8 | 27 | 16,83 | FI-VK-20S-HR |
| | .79 | | 1.26 | 1.38 | .63 | .43 | 1.06 | 37,02 | |
| | 25 | M 36 x 2 | 38 | 47 | 18 | 12,3 | 32 | 33,47 | FI-VK-25S-HR |
| .98 | 1.50 | | 1.85 | .71 | .48 | 1.26 | 73,63 | | |
| 30 | M 42 x 2 | 44 | 49 | 20 | 13,8 | 36 | 45,62 | FI-VK-30S-HR | |
| 1.18 | | 1.73 | 1.93 | .79 | .54 | 1.42 | 100,37 | | |
| 38 | M 52 x 2 | 54 | 51 | 22 | 16,3 | 46 | 70,08 | FI-VK-38S-HR | |
| 1.50 | | 2.13 | 2.01 | .87 | .64 | 1.81 | 154,17 | | |

 Materials / surface finishings: **HR Steel**, uncoated, hardened

P


STAUFF Press Cutting Ring Pre-Assembly and Final Assembly Machine Type SPR-PRC-POC

Product Description

The STAUFF Press Assembly Machine SPR-PRC-POC allows the pressure/position-controlled pre-assembly and final assembly of cutting rings from the Extra-Light Series (LL), the Light Series (L) and the Heavy Series (S) according to ISO 8434-1 / DIN 2353 on tube ends with outer diameters between 4 mm and 42 mm.

The machine is designed as a robust table-top device for continuous operation in the workshop. It is used in connection with hardened and wear-resistant assembly studs FI-FMK and support plates FI-GP which are specially designed for the machine-assisted assembly.

The combined pressure/position-control of the device allows wear on the assembly tools to be detected in time before it can have a negative influence on the assembly result. Maximum service life of the tools is achieved through careful handling of the components and practical operation of the assembly machine. Other factors are proper storage (protected against contamination and corrosion), regular cleaning and lubrication (with suitable lubricants) and thorough preparation of the tube ends before assembly (cutting, deburring and cleaning).

Short times for tool changes, setup and assembly make it possible to carry out series assembly of cutting rings as well as assembly of small and medium quantities with a high level of economic efficiency, reproducibility and process reliability. Among other things, this is achieved with the RFID transponders – which are integrated into the support plates for automatic tool size identification as a standard – and with the tool contact switch: this allows assembly processes to be automatically started and completed by simply pushing the tube end into the assembly stud without having to press any buttons. The assembly area is secured against interference by a light grid to comply with current accident prevention regulations.

The convenient operating panel on the cutting ring assembly machine allows the user to choose between pre-assembly and final assembly at any time:

When utilising the machine-assisted 50% **pre-assembly**, the fitter then has to manually finish the assembly by tightening the union nut by 180° (corresponds to 1/2 turns) beyond the fix point. With machine-assisted **final assembly**, the cutting ring has already cut 100% into the tube and the fitter only has to tighten the union nut by 30° (corresponds to 1/12 turns) from the fix point. Please pay attention to the corresponding assembly instructions in both cases.

Final assembly (100%) minimises the risk for errors (insufficient or excessive manual tightening) and the resulting leak potentials which can often lead to time consuming and expensive machine downtimes and environmental impact. Due to the time benefits during final tightening, final assembly by machine also generates clear saving potentials compared to manual direct assembly as well as to machine-assisted pre-assembly.

In case of incorrect or incomplete assembly where pressure and position parameters significantly deviate from the values stored in the machine, it automatically stops the assembly process and displays a corresponding warning message on the operating panel.



Operating elements of the assembly machine



Noise-reducing tool tray with durable rubber mat



Electrical connection plug and Ethernet port (RJ45)



Lateral handle bars and rubber machine feet with suitable clearance height

Machine-Assisted Final Assembly (100%)
and finish the assembly by manually tightening the union nut by 30° (equivalent to 1/12 a turn)



Machine-Assisted Pre-Assembly (50%)
and finish the assembly by manually tightening the union nut by 180° (equivalent to 1/2 a turn)



■ Tube Preparation (Inspection, Cutting, De-Burring, Cleaning etc.)
 ■ Machine-Assisted Assembly Processes
 ■ Manual Assembly Processes

Time required →

Comparison of the total times required for the assembly and installation of cutting ring connections (medium size)

P



STAUFF Press Cutting Ring Pre-Assembly and Final Assembly Machine Type SPR-PRC-POC

Characteristics

Performance

- Selection between pre-assembly (50 %) and final assembly (100 %)
- Short times for tool changes, setup and assembly
- Tool size detection via RFID transponders in the support plates
- Automatic assembly start through integrated tool contact switch
- Tool wear detection through combined pressure/position-control
- Internal memory for up to 9 assembly programs which can be selected on the operating panel: predefined are tube materials steel E235 and E355 as well as stainless steel 316; parameters for other materials (copper, CuNiFe, Tungum, polyamide etc.) can be added by the manufacturer if required
- Counters for lot/batch sizes and total quantities (separated by tool size)
- Documented process control through programmable logic control (PLC)
- Predefined menu languages: English, German, French and Italian

Design

- ① Robust and ergonomically designed machine housing
- ② Optimised assembly area with approx. 80 mm / 3.15 in distance from the tube axis to the interfering edge of the machine housing, which allows processing of tubes with low bending radii or complex geometries
- ③ Noise-reducing tool tray with durable rubber mat
- ④ Lateral handle bars as attachment points for transport (e.g. with lifting belts)
- ⑤ Secure positioning thanks to flexible rubber machine feet
- ⑥ Type plate, with technical data, serial number, year of manufacture, etc.

Technical Data

Area of Application

- Function: Pre-assembly (50%) and final assembly (100%) of cutting rings on metric tube ends
- Operating principle: Assembly with combined pressure/position-control
- Series and diameters: Extra-Light Series (LL): 4, 6, 8, 10, 12 mm
Light Series (L): 6, 8, 10, 12, 15, 18, 22, 28, 35, 42 mm
Heavy Series (S): 6, 8, 10, 12, 14, 16, 20, 25, 30, 38 mm

Dimensions / Weight

- Dimensions (W x D x H): 780 mm x 650 mm x 305 mm
30.70 in x 25.29 in x 12.00 in
with lateral handle bars (detachable)
- Distance from the tube axis to the interfering edge of the machine housing: 80 mm / 3.15 in
- Clearance height: 65 mm / 2.56 in (height of the machine feet)
enables simple and safe transport using a forklift or pallet jack
- Weight: 95 kg / 210 lbs (incl. operating fluid, excl. assembly tools)

Materials

- Machine frame: Aluminium
- Machine housing: Steel, painted
- Tool tray: NBR (Perbunan®)
- Machine feet: Natural rubber
- Assembly studs: Steel, PVD coated
- Support plates: Steel, browned

Operating Elements

- ⑦ Operating panel for display and selection of all relevant settings and assembly parameters
- ⑧ Button for definite confirmation of entries made on the operating panel
- ⑨ Status light to indicate readiness for operation and running assembly processes

Safety Devices

- ⑩ Main power switch
(can be secured against unauthorised actuation when required)
- ⑪ Separate emergency stop button to immediately stop all machine movements
- ⑫ Light grid to protect users when reaching into the assembly area

Connections (at the back of the machine)

- ⑬ Electrical connection according to IEC 60309 CEE 16A (cable length: 4 m / 13.12 ft) and Ethernet connection (RJ45) for maintenance and data input by the manufacturer

Assembly Tools

- ⑭ Wear-resistant assembly stud FI-MFK
- ⑮ Support plate FI-GP with RFID transponder

Motor Configuration

- Power supply: 400 V AC @ 50 Hz - 3 phases
460 V AC @ 60 Hz - 3 phases
- Current consumption: 2,7 A
- Connected load: 0,9 kW
- Electrical connection: Phase reversing plug according to IEC 60309 CEE 16A
- Cable length: 4 m / 13.12 ft

Alternative motor configurations and plug types are available on request. Please contact STAUFF for details.

Hydraulic System

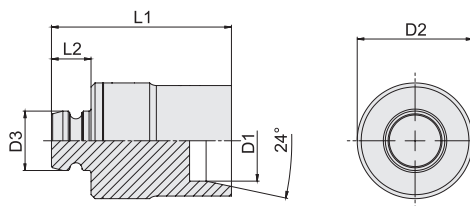
- Operating fluid: Hydraulic oil Shell Tellus S2 MA 46 or equivalent (filled and ready for operation when delivered)
- Fluid volume: 4 litres / 1.06 US Gallon
- Max working pressure: 450 bar / 6527 PSI

Operating Conditions

- Storage temperature: -10°C ... +70°C / +14°F ... +158°F
- Ambient temperature: +15°C ... +35°C / +59°F ... +95°F
- Ambient conditions: Dry, no condensing humidity, operation in horizontal position only
- Noise emission: less than 66 dB(A) as per EN ISO 11202 at full-load operation with maximum tube dimensions

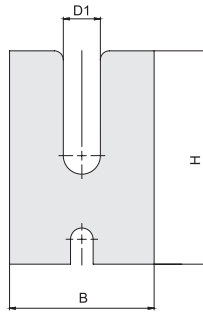
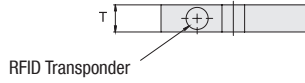


Cutting Ring Assembly Stud for Machine-Assisted Assembly Type FI-MFK ▪ Series LL / L / S



| Series | Tube OD | | Dimensions | | | Weight (^{kg} /lbs) ca. per 100 | Ordering Codes |
|--------|---------------|---------------|------------|------|-------|--|------------------|
| | D1 (mm/in) | D2 (mm/in) | D3 | L1 | L2 | | |
| LL | 4 | 30 | 14,8 | 50 | 10 | 12,98 | FI-MFK-04LL-W100 |
| | .16 | 1.18 | .58 | 1.97 | .39 | 28.55 | |
| | 6 | 30 | 14,8 | 50 | 10 | 13,28 | FI-MFK-06LL-W100 |
| | .24 | 1.18 | .58 | 1.97 | .39 | 29.22 | |
| | 8 | 30 | 14,8 | 50 | 10 | 13,68 | FI-MFK-08LL-W100 |
| | .31 | 1.18 | .58 | 1.97 | .39 | 30.10 | |
| L | 6 | 30 | 14,8 | 50 | 10 | 13,57 | FI-MFK-06L-W100 |
| | .24 | 1.18 | .58 | 1.97 | .39 | 29.85 | |
| | 8 | 30 | 14,8 | 50 | 10 | 14,01 | FI-MFK-08L-W100 |
| | .31 | 1.18 | .58 | 1.97 | .39 | 30.82 | |
| | 10 | 30 | 14,8 | 50 | 10 | 14,63 | FI-MFK-10L-W100 |
| | .39 | 1.18 | .58 | 1.97 | .39 | 32.18 | |
| | 12 | 30 | 14,8 | 50 | 10 | 16,09 | FI-MFK-12L-W100 |
| | .47 | 1.18 | .58 | 1.97 | .39 | 35.39 | |
| | 15 | 30 | 14,8 | 50 | 10 | 16,63 | FI-MFK-15L-W100 |
| | .59 | 1.18 | .58 | 1.97 | .39 | 36.58 | |
| | 18 | 30 | 14,8 | 50 | 10 | 18,23 | FI-MFK-18L-W100 |
| | .71 | 1.18 | .58 | 1.97 | .39 | 40.10 | |
| | 22 | 30 | 14,8 | 49 | 10 | 19,13 | FI-MFK-22L-W100 |
| | .87 | 1.18 | .58 | 1.93 | .39 | 42.08 | |
| | 28 | 33,8 | 14,8 | 48 | 10 | 24,43 | FI-MFK-28L-W100 |
| | 1.10 | 1.33 | .58 | 1.89 | .39 | 53.74 | |
| | 35 | 42,8 | 14,8 | 45 | 10 | 32,72 | FI-MFK-35L-W100 |
| 1.38 | 1.69 | .58 | 1.77 | .39 | 71.99 | | |
| 42 | 49,8 | 14,8 | 44 | 10 | 41,17 | FI-MFK-42L-W100 | |
| 1.65 | 1.96 | .58 | 1.73 | .39 | 90.58 | | |
| S | 6 | 30 | 14,8 | 50 | 10 | 14,14 | FI-MFK-06S-W100 |
| | .24 | 1.18 | .58 | 1.97 | .39 | 31.11 | |
| | 8 | 30 | 14,8 | 50 | 10 | 14,68 | FI-MFK-08S-W100 |
| | .31 | 1.18 | .58 | 1.97 | .39 | 32.29 | |
| | 10 | 30 | 14,8 | 50 | 10 | 15,23 | FI-MFK-10S-W100 |
| | .39 | 1.18 | .58 | 1.97 | .39 | 33.51 | |
| | 12 | 30 | 14,8 | 50 | 10 | 15,89 | FI-MFK-12S-W100 |
| | .47 | 1.18 | .58 | 1.97 | .39 | 34.95 | |
| | 14 | 30 | 14,8 | 49 | 10 | 15,98 | FI-MFK-14S-W100 |
| | .55 | 1.18 | .58 | 1.93 | .39 | 35.15 | |
| | 16 | 30 | 14,8 | 49 | 10 | 16,65 | FI-MFK-16S-W100 |
| | .63 | 1.18 | .58 | 1.93 | .39 | 36.64 | |
| | 20 | 30 | 14,8 | 45 | 10 | 16,43 | FI-MFK-20S-W100 |
| | .79 | 1.18 | .58 | 1.77 | .39 | 36.15 | |
| | 25 | 33,8 | 14,8 | 42 | 10 | 19,02 | FI-MFK-25S-W100 |
| | .98 | 1.33 | .58 | 1.65 | .39 | 41.84 | |
| | 30 | 39,8 | 14,8 | 40 | 10 | 22,88 | FI-MFK-30S-W100 |
| 1.18 | 1.57 | .58 | 1.57 | .39 | 50.34 | | |
| 38 | 49,8 | 14,8 | 36 | 10 | 26,41 | FI-MFK-38S-W100 | |
| 1.50 | 1.96 | .58 | 1.42 | .39 | 58.10 | | |

P Materials / surface finishings: **W100** Steel, PVD coated

Support Plate for Machine-Assisted Assembly
 Type FI-GP ▪ Series LL / L / S


| Series | Tube OD | | Dimensions | | | Weight (^{kg} / _{lbs}) ca. per 100 | Ordering Codes |
|--------|---------|---------|------------|------|--------|---|-----------------|
| | (mm/in) | (mm/in) | D1 | B | H | | |
| LL | 4 | 80 | | | 118 | 104,43 | FI-GP-04LL-W101 |
| | .16 | 3.15 | | | 4.65 | 229.75 | |
| | 6 | 80 | | | 118 | 102,97 | FI-GP-06LL-W101 |
| | .24 | 3.15 | | | 4.65 | 226.53 | |
| | 8 | 80 | | | 118 | 101,46 | |
| | .31 | 3.15 | | | 4.65 | 223.22 | FI-GP-08LL-W101 |
| L | 6 | 80 | | | 118 | 102,97 | FI-GP-06L-W101 |
| | .24 | 3.15 | | | 4.65 | 226.53 | |
| | 8 | 80 | | | 118 | 101,46 | FI-GP-08L-W101 |
| | .31 | 3.15 | | | 4.65 | 223.22 | |
| | 10 | 80 | | | 118 | 99,93 | FI-GP-10L-W101 |
| | .39 | 3.15 | | | 4.65 | 219.84 | |
| | 12 | 80 | | | 118 | 98,35 | FI-GP-12L-W101 |
| | .47 | 3.15 | | | 4.65 | 216.37 | |
| | 15 | 80 | | | 118 | 95,91 | FI-GP-15L-W101 |
| | .59 | 3.15 | | | 4.65 | 211.01 | |
| | 18 | 80 | | | 118 | 93,40 | FI-GP-18L-W101 |
| | .71 | 3.15 | | | 4.65 | 205.47 | |
| | 22 | 80 | | | 118 | 89,91 | FI-GP-22L-W101 |
| | .87 | 3.15 | | | 4.65 | 197.80 | |
| | 28 | 80 | | | 118 | 84,41 | FI-GP-28L-W101 |
| | 1.10 | 3.15 | | | 4.65 | 185.69 | |
| | 35 | 80 | | | 118 | 77,56 | FI-GP-35L-W101 |
| | 1.38 | 3.15 | | | 4.65 | 170.64 | |
| | 42 | 80 | | | 118 | 70,27 | FI-GP-42L-W101 |
| | 1.65 | 3.15 | | | 4.65 | 154.59 | |
| S | 6 | 80 | | | 118 | 102,97 | FI-GP-06S-W101 |
| | .24 | 3.15 | | | 4.65 | 226.53 | |
| | 8 | 80 | | | 118 | 101,46 | FI-GP-08S-W101 |
| | .31 | 3.15 | | | 4.65 | 223.22 | |
| | 10 | 80 | | | 118 | 99,93 | FI-GP-10S-W101 |
| | .39 | 3.15 | | | 4.65 | 219.84 | |
| | 12 | 80 | | | 118 | 98,35 | FI-GP-12S-W101 |
| | .47 | 3.15 | | | 4.65 | 216.37 | |
| | 14 | 80 | | | 118 | 96,73 | FI-GP-14S-W101 |
| | .55 | 3.15 | | | 4.65 | 212.81 | |
| | 16 | 80 | | | 118 | 95,08 | FI-GP-16S-W101 |
| | .63 | 3.15 | | | 4.65 | 209.18 | |
| | 20 | 80 | | | 118 | 91,67 | FI-GP-20S-W101 |
| | .79 | 3.15 | | | 4.65 | 201.68 | |
| | 25 | 80 | | | 118 | 87,20 | FI-GP-25S-W101 |
| | .98 | 3.15 | | | 4.65 | 191.84 | |
| | 30 | 80 | | | 118 | 82,50 | FI-GP-30S-W101 |
| | 1.18 | 3.15 | | | 4.65 | 181.49 | |
| 38 | 80 | | | 118 | 74,49 | FI-GP-38S-W101 | |
| 1.50 | 3.15 | | | 4.65 | 163.88 | | |

Materials / surface finishings: W101 Steel, browned



STAUFF Press Combined Cutting Ring Assembly and 37° Tube Flaring Machine with Automatic or Manual Pressure Setting and Control - Type SPR-PRC-MA

Product Description

The electro-hydraulically operated STAUFF Press Assembly Machine SPR-PRC-MA allows the assembly of cutting rings in the Light Series (L) as well as in the Heavy Series (S) according to ISO 8434-1 / DIN 2353 on metric tube ends with outer diameters from 4 mm to 42 mm.

Exchangeable heads allows the device to be adapted for 37° flaring of metric and imperial tube ends with outer diameters from 4 mm to 42 mm and from 1/4 in to 1 1/2 in respectively according to DIN 3949 or SAE J514 / ISO 8434-2.

Short times for tool changes, setup and assembly (even when changing the assembly type from cutting ring assembly to 37° tube flaring) make it possible to carry out series production as well as the assembly of small and medium quantities with a high level of economic efficiency, reproducibility and process reliability with considerable reduction of times and cost of assembly of fittings.

The adjustable return stroke of the cylinder helps the operator to further optimise the total cycle times.

The machine is designed as a robust table-top device for continuous operation in the workshop. It is used in connection with hardened and wear-resistant assembly tools which are specially designed for the machine-assisted assembly.



Tooling head for cutting ring assembly based on pre-defined settings / automatic tool size detection



Tooling head for cutting ring assembly based on settings manually defined by the operator



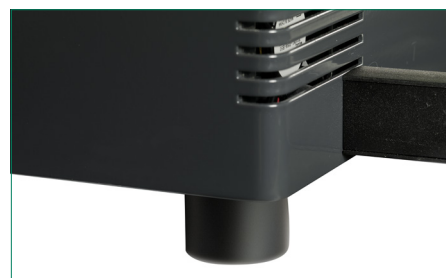
Tooling head for 37° tube flaring based on settings manually defined by the operator



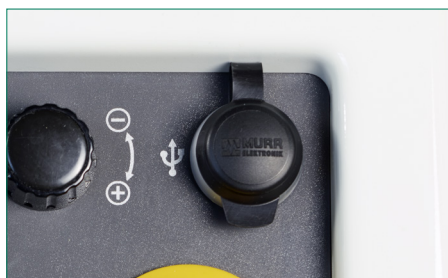
Smart programmable control panel with push/turn button and back-lit parameter display



Noise-reducing tool tray with durable rubber mat



Robust rubber feet providing secure positioning and dampening during operation



USB connection for maintenance and data input by the manufacturer



Electrical connection with a phase reversing plug according to IEC 60309 CEE 16A



Connections for the tool head as well as for the external hand control switch (available on request)

P



STAUFF Press

Combined Cutting Ring Assembly and 37° Tube Flaring Machine with Automatic or Manual Pressure Setting and Control ▪ Type SPR-PRC-MA

Characteristics

Performance

- Pressure-controlled assembly of cutting rings on metric tube ends as well as 37° tube flaring of metric/imperial tube ends due to exchangeable tool heads
- Cutting ring assembly with Tooling Head SPR-PRC-TH-C-A based on pre-defined pressure settings (with automatic tool size detection) or with Tooling Head SPR-PRC-TH-C-M based on pressure settings as manually defined by the operator
- Short times for tool and head changes, setup and assembly (even when changing the assembly type from cutting ring assembly to 37° tube flaring)
- Adjustable return stroke of the cylinder in order to further optimise the total cycle times
- Internal memory for up to 8 assembly programs which can be selected on the operating panel: predefined are tube materials steel E235 and E355 as well as stainless steel 316; parameters for other materials (copper, CuNiFe, Tungum, polyamide etc.) can be added by the manufacturer if required
- Counters for lot/batch sizes and total quantities
- Operator-friendly and easy to maintain and service

Design

- ① Robust and compact table-top device allowing for maximum mobility and flexibility
- ② Optimised assembly area with approx. 80 mm / 3.15 in distance from the tube axis to the interfering edge of the machine housing, which allows processing of tubes with low bending radii or complex geometries
- ③ Noise-reducing tool tray with durable rubber mat
- ④ Lateral handle bars as attachment points for transport (e.g. with lifting belts)
- ⑤ Robust rubber feet providing secure positioning and dampening during operation
- ⑥ Type plate, with technical data, serial number, year of manufacture, etc.

Technical Data

Area of Application

- Function: Pressure-controlled assembly of cutting rings
Light (L): 6, 8, 10, 12, 15, 18, 22, 28, 35, 42 mm
Heavy (S): 6, 8, 10, 12, 14, 16, 20, 25, 30, 38 mm
- Pressure-controlled 37° flaring of metric tube ends (according to DIN 3949 bzw. SAE J 514 / ISO 8434-2):
Light (L): from 6 x 1 mm to 42 x 4 mm
Heavy (S): from 6 x 1 mm to 38 x 5 mm
- Pressure-controlled 37° flaring of imperial tube ends (according to SAE J 514 / ISO 8434-2):
1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2 inch

Dimensions / Weight

- Dimensions (W x D x H): 660 mm x 515 mm x 265 mm
25.98 in x 20.28 in x 10.43 in
with lateral handle bars (detachable)
- Distance from the tube axis to the interfering edge of the machine housing: 80 mm / 3.15 in
- Clearance height: 30 mm / 1.18 in (height of the machine feet)
- Weight (basic machine): 66 kg / 145 lbs
(incl. operating fluid, excl. assembly tools)
- Weight (tooling heads): SPR-PRC-TH-C-A: 6,0 kg / 13 lbs
SPR-PRC-TH-C-M: 5,5 kg / 12 lbs
SPR-PRC-TH-F-M: 19,5 kg / 43 lbs

Materials

- Machine frame: Steel
- Machine cover: Plastic
- Tool tray: NBR (Perbunan®)
- Machine feet: Natural rubber
- Assembly tools: Steel, uncoated, hardened

Operating Elements

- ⑦ Push/turn control button to select all relevant settings and assembly parameters
- ⑧ Smart programmable control panel with back-lit parameter display
- ⑨ Button for definite confirmation of entries made on the operating panel
- ⑩ Illuminated pushbutton to reset the cylinder and to indicate incorrect assemblies

Safety Devices

- ⑪ Selector switch to choose the operation mode (can be locked with a key and secured against unauthorised actuation, if required)
- ⑫ Main power switch
- ⑬ Separate emergency stop button to immediately stop all machine movements

Connections

- ⑭ Electrical connection according to IEC 60309 CEE 16A (cable length: 4 m / 13.12 ft)
- ⑮ USB connection for maintenance and data input by the manufacturer
- ⑯ Connections for tool heads for cutting ring assembly based on pre-defined pressure settings as well as for the external hand control switch SPR-PRC-HS (available on request)

Assembly Tools

- Tooling head SPR-PRC-TH-C-A for cutting ring assembly based on automatic pressure setting (50% pre-assembly is pre-defined) and with tool size detection via the support plates
- Tooling head SPR-PRC-TH-C-M for cutting ring assembly based on manual settings
- Tooling head SPR-PRC-TH-F-M for 37° tube flaring based on manual settings
- Wear-resistant cutting ring assembly stud FI-MVK-...-PRC
- Support plate FI-GP-...-PRC
- Clamping jaws FI-KB-...-PRC for 37° tube flaring

Motor Configuration

- Power supply: 400 V AC @ 50 Hz - 3 phases
- Current consumption: 2,8 A
- Connected load: 1,2 kW
- Electrical connection: Phase reversing plug according to IEC 60309 CEE 16A
- Cable length: 4 m / 13.12 ft

Alternative motor configurations and plug types are available on request. Please contact STAUFF for details.

Hydraulic System

- Operating fluid: Hydraulic oil Shell Nuto H 32 or equivalent (filled and ready for operation when delivered)
- Fluid volume: 4 litres / .78 US Gallon
- Max working pressure: 200 bar / 2901 PSI

Operating Conditions

- Storage temperature: -10°C ... +70°C / +14°F ... +158°F
- Ambient temperature: +10°C ... +50°C / +50°F ... +122°F
- Ambient conditions: Dry, no condensing humidity, operation in horizontal position only
- Noise emission: less than 60 dB(A) as per EN ISO 11202



Tooling Head for Cutting Ring Assembly (based on pre-defined settings) Type SPR-PRC-TH-C-MA



- Tooling head SPR-PRC-TH-C-A for cutting ring pre-assembly based on pre-defined settings and with automatic tool size detection via the support plates
- Requires cutting ring assembly studs FI-MVK-PRC and support plates FI-GP-PRC

Tooling Head for Cutting Ring Assembly (based on manual settings) Type SPR-PRC-TH-C-M



- Tooling head SPR-PRC-TH-C-M for cutting ring pre-assembly based on manual settings
- Requires cutting ring assembly studs FI-MVK-PRC and support plates FI-GP-PRC

Tooling Head for 37° Tube Flaring (based on manual settings) Type SPR-PRC-TH-F-M



- Tooling head SPR-PRC-TH-F-M for 37° tube flaring based on manual settings
- Requires clamping jaws FI-KB-PRC

Assembly Tool Magazine Type SPR-TM



- Provides safe and convenient storage for up to 10 assembly studs (type FI-MFK) as well as up to 10 support plates (types FI-GP and FI-GP-PRC) for the machine-assisted cutting ring assembly
- Assembly studs and support plates are not included in the scope of delivery for this item and have to be ordered separately

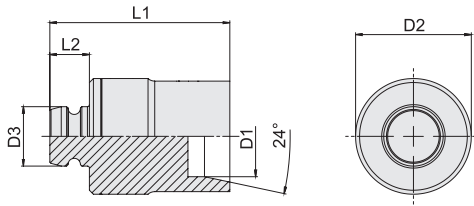
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External Foot Control Switch Type SPR-PRC-FS

- Enables the operator to trigger assembly processes from a larger distance to the machine (cable length: 5 m / 16.40 ft)



Cutting Ring Assembly Stud for Machine-Assisted Assembly Type FI-MFK • Series LL / L / S



| Series | Tube OD | | Dimensions | | | Weight (^{kg} /lbs) ca. per 100 | Ordering Codes | | |
|--------|---------|---------|------------|----|------|--|----------------|-------|------------------|
| | (mm/in) | (mm/in) | D1 | D2 | D3 | | | | |
| LL | 4 | 30 | | | 14,8 | 50 | 10 | 12,98 | FI-MFK-04LL-W100 |
| | .16 | 1.18 | | | .58 | 1.97 | .39 | 28.55 | |
| | 6 | 30 | | | 14,8 | 50 | 10 | 13,28 | FI-MFK-06LL-W100 |
| | .24 | 1.18 | | | .58 | 1.97 | .39 | 29.22 | |
| | 8 | 30 | | | 14,8 | 50 | 10 | 13,68 | |
| | .31 | 1.18 | | | .58 | 1.97 | .39 | 30.10 | FI-MFK-08LL-W100 |
| L | 6 | 30 | | | 14,8 | 50 | 10 | 13,57 | FI-MFK-06L-W100 |
| | .24 | 1.18 | | | .58 | 1.97 | .39 | 29.85 | |
| | 8 | 30 | | | 14,8 | 50 | 10 | 14,01 | FI-MFK-08L-W100 |
| | .31 | 1.18 | | | .58 | 1.97 | .39 | 30.82 | |
| | 10 | 30 | | | 14,8 | 50 | 10 | 14,63 | FI-MFK-10L-W100 |
| | .39 | 1.18 | | | .58 | 1.97 | .39 | 32.18 | |
| | 12 | 30 | | | 14,8 | 50 | 10 | 16,09 | FI-MFK-12L-W100 |
| | .47 | 1.18 | | | .58 | 1.97 | .39 | 35.39 | |
| | 15 | 30 | | | 14,8 | 50 | 10 | 16,63 | FI-MFK-15L-W100 |
| | .59 | 1.18 | | | .58 | 1.97 | .39 | 36.58 | |
| | 18 | 30 | | | 14,8 | 50 | 10 | 18,23 | FI-MFK-18L-W100 |
| | .71 | 1.18 | | | .58 | 1.97 | .39 | 40.10 | |
| | 22 | 30 | | | 14,8 | 49 | 10 | 19,13 | FI-MFK-22L-W100 |
| | .87 | 1.18 | | | .58 | 1.93 | .39 | 42.08 | |
| | 28 | 33,8 | | | 14,8 | 48 | 10 | 24,43 | FI-MFK-28L-W100 |
| | 1.10 | 1.33 | | | .58 | 1.89 | .39 | 53.74 | |
| | 35 | 42,8 | | | 14,8 | 45 | 10 | 32,72 | FI-MFK-35L-W100 |
| | 1.38 | 1.69 | | | .58 | 1.77 | .39 | 71.99 | |
| | 42 | 49,8 | | | 14,8 | 44 | 10 | 41,17 | FI-MFK-42L-W100 |
| | 1.65 | 1.96 | | | .58 | 1.73 | .39 | 90.58 | |
| S | 6 | 30 | | | 14,8 | 50 | 10 | 14,14 | FI-MFK-06S-W100 |
| | .24 | 1.18 | | | .58 | 1.97 | .39 | 31.11 | |
| | 8 | 30 | | | 14,8 | 50 | 10 | 14,68 | FI-MFK-08S-W100 |
| | .31 | 1.18 | | | .58 | 1.97 | .39 | 32.29 | |
| | 10 | 30 | | | 14,8 | 50 | 10 | 15,23 | FI-MFK-10S-W100 |
| | .39 | 1.18 | | | .58 | 1.97 | .39 | 33.51 | |
| | 12 | 30 | | | 14,8 | 50 | 10 | 15,89 | FI-MFK-12S-W100 |
| | .47 | 1.18 | | | .58 | 1.97 | .39 | 34.95 | |
| | 14 | 30 | | | 14,8 | 49 | 10 | 15,98 | FI-MFK-14S-W100 |
| | .55 | 1.18 | | | .58 | 1.93 | .39 | 35.15 | |
| | 16 | 30 | | | 14,8 | 49 | 10 | 16,65 | FI-MFK-16S-W100 |
| | .63 | 1.18 | | | .58 | 1.93 | .39 | 36.64 | |
| | 20 | 30 | | | 14,8 | 45 | 10 | 16,43 | FI-MFK-20S-W100 |
| | .79 | 1.18 | | | .58 | 1.77 | .39 | 36.15 | |
| | 25 | 33,8 | | | 14,8 | 42 | 10 | 19,02 | FI-MFK-25S-W100 |
| | .98 | 1.33 | | | .58 | 1.65 | .39 | 41.84 | |
| | 30 | 39,8 | | | 14,8 | 40 | 10 | 22,88 | FI-MFK-30S-W100 |
| | 1.18 | 1.57 | | | .58 | 1.57 | .39 | 50.34 | |
| | 38 | 49,8 | | | 14,8 | 36 | 10 | 26,41 | FI-MFK-38S-W100 |
| | 1.50 | 1.96 | | | .58 | 1.42 | .39 | 58.10 | |

Materials / surface finishings: W100 Steel, PVD coated



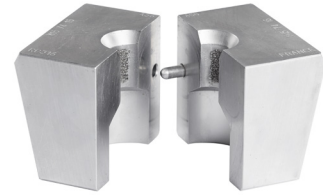
Support Plate for Machine-Assisted Cutting Ring Assembly
Type FI-GP-PRC • Series L / S



| Series | Tube OD (mm/in) | Ordering Codes |
|--------|--------------------|----------------------|
| L | 6 | FI-GP-06L/S-PRC-A-W1 |
| | .24 | |
| | 8 | FI-GP-08L/S-PRC-A-W1 |
| | .31 | |
| | 10 | FI-GP-10L/S-PRC-A-W1 |
| | .39 | |
| | 12 | FI-GP-12L/S-PRC-A-W1 |
| | .47 | |
| | 15 | FI-GP-15L-PRC-A-W1 |
| | .59 | |
| | 18 | FI-GP-18L-PRC-A-W1 |
| | .71 | |
| | 22 | FI-GP-22L-PRC-A-W1 |
| | .87 | |
| | 28 | FI-GP-28L-PRC-A-W1 |
| | 1.10 | |
| | 35 | FI-GP-35L-PRC-A-W1 |
| 1.38 | | |
| 42 | FI-GP-42L-PRC-A-W1 | |
| 1.65 | | |
| S | 6 | FI-GP-06L/S-PRC-A-W1 |
| | .24 | |
| | 8 | FI-GP-08L/S-PRC-A-W1 |
| | .31 | |
| | 10 | FI-GP-10L/S-PRC-A-W1 |
| | .39 | |
| | 12 | FI-GP-12L/S-PRC-A-W1 |
| | .47 | |
| | 14 | FI-GP-14S-PRC-A-W1 |
| | .55 | |
| | 16 | FI-GP-16S-PRC-A-W1 |
| | .63 | |
| | 20 | FI-GP-20S-PRC-A-W1 |
| | .79 | |
| | 25 | FI-GP-25S-PRC-A-W1 |
| | .98 | |
| | 30 | FI-GP-30S-PRC-A-W1 |
| 1.18 | | |
| 38 | FI-GP-38S-PRC-A-W1 | |
| 1.50 | | |

Materials / surface finishings: **W1** Steel, uncoated, hardened



Clamping Jaws for 37° Tube Flaring
 Type FI-KB • Series L / S


37° Flaring of Metric Tube Ends

| Series | Tube OD (mm/in) | Ordering Codes | |
|------------|-----------------------|--------------------------|---------------------------|
| | | DIN 3949 | SAE J514 / ISO 8434-2 |
| L | 6 | FI-KB-06L/S-PRC-MF-W1 | FI-KB-06L/S-PRC-F-W1 |
| | .24 | | |
| | 8 | FI-KB-08L/S-PRC-MF-W1 | FI-KB-08L/S/5/16-PRC-F-W1 |
| | .31 | | |
| | 10 | FI-KB-10L/S-PRC-MF-W1 | FI-KB-10L/S-PRC-F-W1 |
| | .39 | | |
| | 12 | FI-KB-12L/S-PRC-MF-W1 | FI-KB-12L/S-PRC-F-W1 |
| | .47 | | |
| | 15 | FI-KB-15L-PRC-MF-W1 | |
| | .59 | | |
| | 18 | FI-KB-18L-PRC-MF-W1 | FI-KB-18L-PRC-F-W1 |
| | .71 | | |
| | 22 | FI-KB-22L-PRC-MF-W1 | |
| | .87 | | |
| | 28 | FI-KB-28L-PRC-MF-W1 | FI-KB-28L-PRC-F-W1 |
| | 1.10 | | |
| | 35 | FI-KB-35L-PRC-MF-W1 | FI-KB-35L-PRC-F-W1 |
| 1.38 | | | |
| 42 | FI-KB-42L-PRC-MF-W1 | FI-KB-42L-PRC-F-W1 | |
| 1.65 | | | |
| S | 6 | FI-KB-06L/S-PRC-MF-W1 | FI-KB-06L/S-PRC-F-W1 |
| | .24 | | |
| | 8 | FI-KB-08L/S-PRC-MF-W1 | FI-KB-08L/S-PRC-F-W1 |
| | .31 | | |
| | 10 | FI-KB-10L/S-PRC-MF-W1 | FI-KB-10L/S-PRC-F-W1 |
| | .39 | | |
| | 12 | FI-KB-12L/S-PRC-MF-W1 | FI-KB-12L/S-PRC-F-W1 |
| | .47 | | |
| | 14 | FI-KB-14S-PRC-MF-W1 | |
| | .55 | | |
| | 16 | FI-KB-16S-PRC-MF-W1 | FI-KB-16S-PRC-F-W1 |
| | .63 | | |
| | 20 | FI-KB-20S-PRC-MF-W1 | FI-KB-20S-PRC-F-W1 |
| | .79 | | |
| | 25 | FI-KB-25S-PRC-MF-W1 | FI-KB-25S-PRC-F-W1 |
| | .98 | | |
| | 30 | FI-KB-30S-PRC-MF-W1 | |
| | 1.18 | | |
| | 30 x 5 | FI-KB-30SX5-PRC-MF-W1 | |
| 1.18 x .20 | | | |
| 38 | FI-KB-38S-PRC-MF-W1 | FI-KB-38S/1-1/2-PRC-F-W1 | |
| 1.50 | | | |
| 38 x 5 | FI-KB-38SX5-PRC-MF-W1 | | |
| 1.50 x .20 | | | |

37° Flaring of Imperial Tube Ends

| Tube OD (mm/in) | Ordering Codes |
|--------------------|---------------------------|
| | SAE J514 / ISO 8434-2 |
| 1/4 | FI-KB-1/4-PRC-F-W1 |
| 5/16 | FI-KB-08L/S/5/16-PRC-F-W1 |
| 3/8 | FI-KB-3/8-PRC-F-W1 |
| 1/2 | FI-KB-1/2-PRC-F-W1 |
| 5/8 | FI-KB-5/8-PRC-F-W1 |
| 3/4 | FI-KB-3/4-PRC-F-W1 |
| 7/8 | FI-KB-7/8-PRC-F-W1 |
| 1 | FI-KB-1-PRC-F-W1 |
| 1-1/4 | FI-KB-1-1/4-PRC-F-W1 |
| 1-1/2 | FI-KB-38S/1-1/2-PRC-F-W1 |

Materials / surface finishings: W1 Steel, uncoated, hardened



STAUFF Press Portable Cutting Ring Assembly Machine with Manual Pressure Setting (Set) Type SPR-PRC-H-SET

Product Description

With the battery-operated STAUFF Press Assembly Machine SPR-PRC-H-M, STAUFF provides an ergonomically designed, light-weight and at the same time robust device for the assembly of cutting rings in the Light Series (L) as well as in the Heavy Series (S) according to ISO 8434-1 / DIN 2353 on metric tube ends with outer diameters from 6 mm to 42 mm.

The machine has been designed for hand-held, tripod- or table-mounted operation and offers the best technical compromise between maximum flexibility, economic efficiency and a high level of process reliability with considerable reduction of time and cost for the assembly of cutting ring fittings.

Short tool change and setup times (with only a few seconds required to manually adjust the assembly pressure) make it possible to carry out the assembly of medium and even small quantities of cutting ring fittings, e.g. during maintenance, servicing, conversion and repair works on hydraulic pipe and tube systems. With the rechargeable battery being able to typically cover more than 200 assembly cycles per charge (depending on pressure settings and other influencing factors), the machine is also suitable for mass processing and production.

The assembly machine is by default supplied in a heavy-duty trolley transport case that is equipped with a range of accessories and also provides suitable space for the assembly studs.



Mode dial to manually adjust the pressure (settings indicated on the machine housing)



Status lights on the back of the machine housing



Assembly machine attached to a tripod stand using a mounting bracket



P



STAUFF Press Portable Cutting Ring Assembly Machine with Manual Pressure Setting (Set) Type SPR-PRC-H-SET

Technical Data

Area of Application

- Function: Pressure-controlled assembly of cutting rings acc. to ISO 8434-1 / DIN 2353 on metric tube ends
Light (L): 6, 8, 10, 12, 15, 18, 22, 28, 35 and 42 mm
Heavy (S): 6, 8, 10, 12, 14, 16, 20, 25, 30 and 38 mm

Dimensions / Weight

- Dimensions (L x H x W): 440 mm x 330 mm x 80 mm
17.32 in x 12.99 in x 3.15 in
(including rechargeable battery)
- Weight (basic machine): 6,8 kg / 15 lbs
(including rechargeable battery)
- Weight (case): 16,5 kg / 36 lbs
(including assembly machine and accessories)
- Case: IP67 certified, equipped with o-ring seal and automatic pressure valve

Materials

- Machine cover: Plastic
- Tool head: Steel, uncoated, hardened
- Assembly studs: Stainless steel, hardened

Rechargeable Battery

- Typically covers more than 200 assembly cycles per charge (depending on pressure settings and other influencing factors)
- Battery type: Lithium-ion (18V / 3.0 Ah)

Charging Unit

- Charging time for empty batteries is approximately 75 minutes
- Power supply: 230 V AC @ 50 Hz - single-phase
- Electrical connection: 2-pin grounded safety plug (CEE 7/4, type F / Schuko)
- Cable length: 1,10 m / 3.61 ft

List of Components

Set supplied in a heavy-duty trolley transport case:

- ① Light-weight and ergonomically designed cutting ring assembly machine for the hand-held, tripod-mounted or table-mounted operation
- ② Rechargeable battery
- ③ Additional replacement battery
- ④ Battery quick charging unit
- ⑤ Clips (to keep the assembly stud in position)

Not displayed: Shoulder strap

Equipment to be ordered separately:

- ⑥ Assembly oil (to lubricate the taper of the assembly stud)
- ⑦ Cutting Ring Assembly Studs **FI-MVK-PRC-H-M-HR**

Accessories

- Tripod Stand **SPR-PRC-H-M-TP**
- Table Stand **SPR-PRC-H-M-TS**
- Mounting Bracket **SPR-PRC-H-M-MH**
(required as a machine holder for both the tripod stand and the table stand)

Spare Parts

- Assembly oil **SPR-PRC-H-M-OS**
(required to lubricate the taper of the assembly stud)
- Rechargeable Battery **SPR-PRC-H-M-BP**
- Battery Quick Charging Unit **SPR-PRC-H-M-BC**



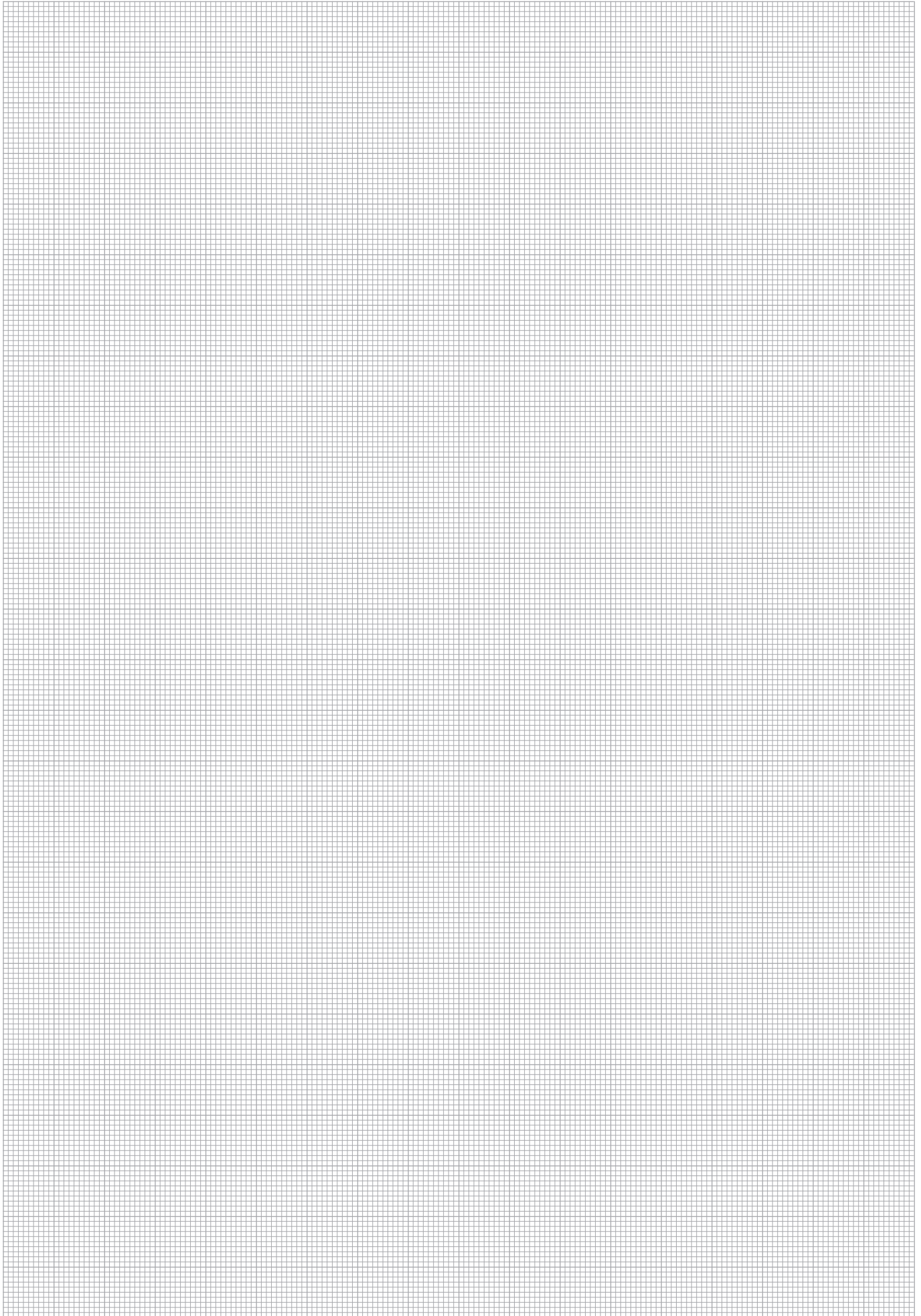
Cutting Ring Assembly Stud for Machine-Assisted Assembly
Type FI-MVK-PRC-H-M ▪ Series L / S



| Series | Tube OD (^{mm} / _{in}) | Ordering Codes |
|--------|--|-----------------------|
| L | 6 | FI-MVK-06L-PRC-H-M-HR |
| | .24 | |
| | 8 | FI-MVK-08L-PRC-H-M-HR |
| | .31 | |
| | 10 | FI-MVK-10L-PRC-H-M-HR |
| | .39 | |
| | 12 | FI-MVK-12L-PRC-H-M-HR |
| | .47 | |
| | 15 | FI-MVK-15L-PRC-H-M-HR |
| | .59 | |
| | 18 | FI-MVK-18L-PRC-H-M-HR |
| | .71 | |
| | 22 | FI-MVK-22L-PRC-H-M-HR |
| | .87 | |
| | 28 | FI-MVK-28L-PRC-H-M-HR |
| | 1.10 | |
| | 35 | FI-MVK-35L-PRC-H-M-HR |
| 1.38 | | |
| 42 | FI-MVK-42L-PRC-H-M-HR | |
| 1.65 | | |
| S | 6 | FI-MVK-06S-PRC-H-M-HR |
| | .24 | |
| | 8 | FI-MVK-08S-PRC-H-M-HR |
| | .31 | |
| | 10 | FI-MVK-10S-PRC-H-M-HR |
| | .39 | |
| | 12 | FI-MVK-12S-PRC-H-M-HR |
| | .47 | |
| | 14 | FI-MVK-14S-PRC-H-M-HR |
| | .55 | |
| | 16 | FI-MVK-16S-PRC-H-M-HR |
| | .63 | |
| | 20 | FI-MVK-20S-PRC-H-M-HR |
| | .79 | |
| | 25 | FI-MVK-25S-PRC-H-M-HR |
| | .98 | |
| | 30 | FI-MVK-30S-PRC-H-M-HR |
| 1.18 | | |
| 38 | FI-MVK-38S-PRC-H-M-HR | |
| 1.50 | | |

Materials / surface finishing: **HR** Stainless steel, hardened





P



STAUFF Form Tube Forming Machine Type SF0-F

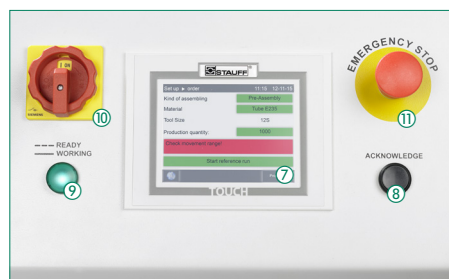
Product Description

The type SF0-F tube forming machine facilitates the economical and most reliable production of tube ends made of steel, stainless steel and other materials with a contour typical for the STAUFF Form tube forming system.

The machine is designed as a robust table-top device for continuous operation in the workshop. It is used in connection with FI-FST tube shapers and FI-FB clamping jaws. Tube shapers with FI-ID internal tube supports are used with selected tube dimensions, which prevent the tube from being constricted in the shaping area.

Tube shapers, clamping jaws and internal tube supports have been specifically designed for the mechanical forming process and can be quickly and simply replaced without the need for any tools, if required. The resulting short tool change and set-up times contribute to the high efficiency of the system as well as ensuring low cycle times.

All the tools needed for the forming process are clearly labelled with the tube dimensions so that assembly errors caused by incorrect assignment can be largely ruled out.



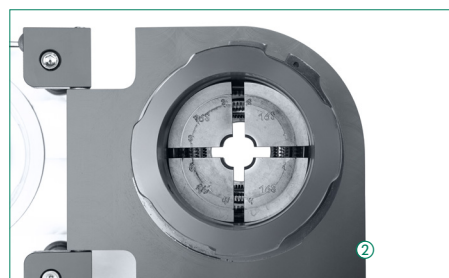
Operating elements of the tube forming machine



Noise-reducing tool tray with durable rubber mat



Lateral handle bars and rubber machine feet with suitable clearance height



Open clamping head with clamping jaws inserted



Inserting the tube shaper into the tool holder – with no tools required



Electrical connection plug and Ethernet port (RJ45)

P



STAUFF Form Tube Forming Machine Type SFO-F

Characteristics

Performance

- Constant high process safety, reliability and reproducibility by the position-control of the machine, which performs the shaping process following a manual start and monitors it by means of stored parameters
- Maximum efficiency thanks to short cycle times – ideal for series production
- Quick and simple replacement of tube shapers (with bayonet lock) and clamping jaws when changing the tube dimensions – with no tools required
- Potential risk of confusion and assembly errors caused by incorrect assignment can virtually be ruled out by the clear labelling of all assembly tools
- Surface-friendly clamping of the tube during the forming process
- Counters for lot/batch sizes and total quantities (separated by tool size)
- Predefined menu languages: English, German, French and Italian
- High degree of user comfort with clear information displayed on the operating panel

Design

- ① Robust and ergonomically designed machine housing
- ② Easily accessible clamping head for simple positioning of the clamping jaws and optimised assembly area with approx. 115 mm / 4.52 in distance from the tube axis to the interfering edge of the machine housing, which allows processing of tubes with low bending radii or complex geometries
- ③ Noise-reducing tool tray with durable rubber mat
- ④ Lateral handle bars as attachment points for transport (e.g. with lifting belts)
- ⑤ Secure positioning thanks to flexible rubber machine feet
- ⑥ Type plate, with technical data, serial number, year of manufacture etc.

Technical Data

Area of Application

- **Function:** Cold forming of seamless cold drawn precision steel tubes acc. to EN 10305-1 (materials E235, E355) and stainless steel tubes (material 1.4571 / AISI 316 Ti)

Parameters for alternative materials (copper, brass, CuNiFe, Tungum etc.) can be added by the manufacturer, if required. Please contact STAUFF for details.

- **Operating principle:** Tube forming with combined pressure/position-control
- **Series and dimensions:** Light Series (L): 6 x 1,5 mm to 42 x 4 mm
Heavy Series (S): 6 x 1,5 mm to 38 x 6 mm

Dimensions / Weight

- **Dimensions (W x D x H):** 850 mm x 890 mm x 330 mm
33.46 in x 35.04 in x 12.99 in
with lateral handle bars (detachable)
- **Distance from the tube axis to the interfering edge of the machine housing:** 115 mm / 4.52 in
- **Clearance height:** 65 mm / 2.56 in (height of the machine feet)
enables simple and safe transport using a forklift or pallet jack
- **Weight:** 210 kg / 463 lbs
(including operating fluid, excluding forming tools)

Materials

- **Machine frame:** Aluminium
- **Machine housing:** Steel, painted
- **Tool tray:** NBR (Perbunan®)
- **Machine feet:** Natural rubber
- **Form rings:** Steel, zinc/nickel-plated
- **Form rings (seal):** FKM (Viton®)

Operating Elements

- ⑦ Operating panel for display and selection of all relevant settings and forming parameters
- ⑧ Button for definite confirmation of entries made on the operating panel
- ⑨ Status light to indicate readiness for operation and running assembly processes

Safety Devices

- ⑩ Main power switch
(can be secured against unauthorised actuation when required)
- ⑪ Separate emergency stop button to immediately stop all machine movements

Connections (at the back of the machine)

- ⑫ Electrical connection according to IEC 60309 CEE 16A (cable length: 4 m / 13.12 ft) and Ethernet connection (RJ45) for maintenance and data input by the manufacturer

Tube Forming Tools

- ⑬ Tube Shaper FI-FST with clear identification of the tube dimensions
- ⑭ Version of a Tube Shaper FI-FST with Internal Tube Support FI-ID
- ⑮ Clamping Jaws FI-FB with clear identification of the tube dimension

Motor Configuration

- **Power supply:** 400 V AC @ 50 Hz - 3 phases
460 V AC @ 60 Hz - 3 phases
- **Current consumption:** 2,55 A
- **Connected load:** 1,0 kW
- **Electrical connection:** Phase reversing plug according to IEC 60309 CEE 16A
- **Cable length:** 4 m / 13.12 ft

Alternative motor configurations and plug types are available on request. Please contact STAUFF for details.

Hydraulic System

- **Operating fluid:** Hydraulic oil Shell Tellus S2 MA 46 or equivalent (filled and ready for operation when delivered)
- **Fluid volume:** 6,1 litres / 1.61 US Gallon
- **Max working pressure:** 700 bar / 10153 PSI

Operating Conditions

- **Storage temperature:** -10°C ... +70°C / +14°F ... +158°F
- **Ambient temperature:** +15°C ... +35°C / +59°F ... +95°F
- **Ambient conditions:** Dry, no condensing humidity, operation in horizontal position only less than 69 dB(A) as per EN ISO 11202 at full-load operation with maximum tube dimensions
- **Noise emission:**



Tube Shapers ▪ Type FI-FST
Internal Tube Supports ▪ Type FI-ID



| Tube OD | | Tube Wall Thickness | | Weight per piece | | Ordering Codes | |
|---------|------|---------------------|------|------------------|-----------|--------------------------------|------------------------|
| (mm) | (in) | (mm) | (in) | (kg) ca. | (lbs) ca. | Tube Shapers | Internal Tube Supports |
| 6 | .24 | 1,5 | .06 | 1,7 | 3.74 | FI-FST-06L/S-S-A | |
| 8 | .31 | 1,5 | .06 | 1,7 | 3.74 | FI-FST-08L/S-S-A | |
| | | 2,0 | .08 | | | | |
| 10 | .39 | 1,5 | .06 | 1,7 | 3.74 | FI-FST-10L/S-S-A | |
| | | 2,0 | .08 | | | | |
| | | 2,5 | .10 | | | | |
| 12 | .47 | 1,5 | .06 | 1,7 | 3.74 | FI-FST-12L/S-1.5-S-A | FI-ID-12x1.5-HR |
| | | 2,0 | .08 | | | FI-FST-12L/S-2.0/2.5/3.0-S-A | |
| | | 2,5 | .10 | | | | |
| 15 | .59 | 1,5 | .06 | 1,7 | 3.74 | FI-FST-15L-S-A | FI-ID-15x1.5-HR |
| | | 2,0 | .08 | | | | FI-ID-15x2.0-HR |
| | | 2,5 | .10 | | | | FI-ID-15x2.5-HR |
| 16 | .63 | 2,0 | .08 | 1,7 | 3.74 | FI-FST-16S-2.0/2.5-S-A | FI-ID-16x2.0-HR |
| | | 2,5 | .10 | | | FI-FST-16S-3.0/4.0-S-A | FI-ID-16x2.5-HR |
| | | 3,0 | .12 | | | | |
| | | 4,0 | .16 | | | | |
| 18 | .71 | 2,0 | .08 | 1,7 | 3.74 | FI-FST-18L-2.0/2.5-S-A | FI-ID-18x2.0-HR |
| | | 2,5 | .10 | | | FI-FST-18L-3.0-S-A | FI-ID-18x2.5-HR |
| | | 3,0 | .12 | | | | |
| 20 | .79 | 2,0 | .08 | 1,7 | 3.74 | FI-FST-20S-2.0/2.5-S-A | FI-ID-20x2.0-HR |
| | | 2,5 | .10 | | | FI-FST-20S-3.0/4.0-S-A | FI-ID-20x2.5-HR |
| | | 3,0 | .12 | | | | |
| | | 4,0 | .16 | | | | |
| 22 | .87 | 2,0 | .08 | 1,7 | 3.74 | FI-FST-22L-2.0/2.5-S-A | FI-ID-22x2.0-HR |
| | | 2,5 | .10 | | | FI-FST-22L-3.0/3.5-S-A | FI-ID-22x2.5-HR |
| | | 3,0 | .12 | | | | |
| | | 3,5 | .14 | | | | |
| 25 | .98 | 2,5 | .10 | 1,7 | 3.74 | FI-FST-25S-2.0/2.5-S-A | FI-ID-25x2.0-HR |
| | | 3,0 | .12 | | | FI-FST-25S-3.0/3.5/4.0/5.0-S-A | FI-ID-25x2.5-HR |
| | | 3,5 | .14 | | | | |
| | | 4,0 | .16 | | | | |
| | | 5,0 | .20 | | | | |
| 28 | 1.10 | 2,0 | .08 | 1,7 | 3.74 | FI-FST-28L-2.0/2.5/3.0-S-A | FI-ID-28x2.0-HR |
| | | 2,5 | .10 | | | FI-FST-28L-3.5/4.0-S-A | FI-ID-28x2.5-HR |
| | | 3,0 | .12 | | | | FI-ID-28x3.0-HR |
| | | 3,5 | .14 | | | | |
| | | 4,0 | .16 | | | | |
| 30 | 1.18 | 2,5 | .10 | 1,6 | 3.52 | FI-FST-30S-2.5/3.0-S-A | FI-ID-30x2.5-HR |
| | | 3,0 | .12 | | | FI-FST-30S-4.0/5.0/6.0-S-A | FI-ID-30x3.0-HR |
| | | 4,0 | .16 | | | | |
| | | 5,0 | .20 | | | | |
| 35 | 1.38 | 2,5 | .10 | 1,6 | 3.52 | FI-FST-35L-2.5/3.0-S-A | FI-ID-35x2.5-HR |
| | | 3,0 | .12 | | | FI-FST-35L-4.0/5.0-S-A | FI-ID-35x3.0-HR |
| | | 4,0 | .16 | | | | |
| | | 5,0 | .20 | | | | |
| 38 | 1.50 | 3,0 | .12 | 1,7 | 3.74 | FI-FST-38S-3.0/4.0-S-A | FI-ID-38x3.0-HR |
| | | 4,0 | .16 | | | FI-FST-38S-5.0/6.0-S-A | FI-ID-38x4.0-HR |
| | | 5,0 | .20 | | | | |
| | | 6,0 | .24 | | | | |
| 42 | 1.65 | 3,0 | .12 | 1,6 | 3.52 | FI-FST-42L-S-A | FI-ID-42x3.0-HR |
| | | 3,5 | .14 | | | | FI-ID-42x3.5-HR |
| | | 4,0 | .16 | | | | FI-ID-42x4.0-HR |

Materials / surface finishings: HR Steel, uncoated, hardened

Please note:

The selection chart is only applicable in conjunction with seamless cold drawn precision steel tubes according to EN 10305-1 (materials E235 and E355). Please consult STAUFF for information regarding the processing of tubes made from stainless steel and other materials.



Clamping Jaws ▪ Type FI-FB



| Tube OD (mm/in) | Series | Weight per piece (kg/lbs) ca. | Ordering Codes |
|--------------------|--------|----------------------------------|-----------------|
| 6 | L / S | 2,40 | FI-FB-06L/S-S-A |
| .24 | | 5.28 | |
| 8 | L / S | 2,40 | FI-FB-08L/S-S-A |
| .31 | | 5.28 | |
| 10 | L / S | 2,30 | FI-FB-10L/S-S-A |
| .39 | | 5.06 | |
| 12 | L / S | 2,30 | FI-FB-12L/S-S-A |
| .47 | | 5.06 | |
| 15 | L | 2,30 | FI-FB-15L-S-S-A |
| .59 | | 5.06 | |
| 16 | S | 2,30 | FI-FB-16S-S-S-A |
| .63 | | 5.06 | |
| 18 | L | 2,20 | FI-FB-18L-S-S-A |
| .71 | | 4.84 | |
| 20 | S | 2,20 | FI-FB-20S-S-S-A |
| .79 | | 4.84 | |
| 22 | L | 2,20 | FI-FB-22L-S-S-A |
| .87 | | 4.84 | |
| 25 | S | 2,20 | FI-FB-25S-S-S-A |
| .98 | | 4.84 | |
| 28 | L | 2,10 | FI-FB-28L-S-S-A |
| 1.10 | | 4.62 | |
| 30 | S | 2,00 | FI-FB-30S-S-S-A |
| 1.18 | | 4.40 | |
| 35 | L | 2,00 | FI-FB-35L-S-S-A |
| 1.38 | | 4.40 | |
| 38 | S | 1,90 | FI-FB-38S-S-S-A |
| 1.50 | | 4.18 | |
| 42 | L | 1,80 | FI-FB-42L-S-S-A |
| 1.65 | | 3.96 | |

 External Foot Control Switch
Type SPR-PRC-FS

- Enables the operator to trigger assembly processes from a larger distance to the machine (cable length: 7 m / 22.97 ft)



STAUFF Clean Pipe, Tube and Hose Cleaning System

Product Description

The STAUFF Clean System comprises of a pneumatic launcher and a range of specially designed nozzles and projectiles.

The launcher uses standard industrial compressed air pressure between 6 and 8 bar / 87 and 116 PSI to propel a foam projectile through the nozzle and into the pipe, tube or hose bore to have their inside surface cleaned from any unwanted contamination.

This provides a safe and environmentally friendly tool that requires little formal expertise to operate and apply.

The **launcher** is the part of the system that controls the air supply to propel the projectile from start to finish of the cleaning job.

The **nozzles** are specially designed to affect an airtight seal on any pipe, tube or hose with or without end fittings. Its main purpose is to compress the foam projectile allowing it to enter the internal diameter of the pipe, tube or hose to be cleaned.

The **projectile** is the part of the system that does the cleaning: The foam projectile is sized to be approximately 15% larger than the internal diameter of the pipe, tube or hose to be cleaned. The compression of the projectile against the internal wall cleans the internal surface and expels any loose contaminants from the end of the pipe, tube or hose.

The STAUFF Clean System is available as separate components or in a variety of kit forms comprising various nozzle types, adaptor and launcher, all contained in a heavy duty carrying case.



STAUFF Clean Launchers / Launcher Kits



Characteristics

- Pneumatic pistol-grip launcher
- Light-weight and ergonomic design
- Easy to operate and apply
- Connection to air supply with quick release coupling
- Suitable for any type of nozzle
- Delivered separately or in a variety of kit forms including carrying case, adaptor ring and nozzles (if required)

Technical Data

- Air compressor requirement:
6 ... 8 bar / 87 ... 116 PSI
- Effective air volume:
250 ... 400 l/min / 66 ... 106 US GPM

Ordering Codes

- Launcher only **SC-LG**
- Launcher kit (launcher, kit and adaptor) **SC-LK**
- Kit (as above)
with set of 10 Universal nozzles **SC-10UV-K**
- Kit (as above)
with set of 18 Metric Tube nozzles **SC-18MT-K**
- Kit (as above)
with set of 10 JIC nozzles **SC-10J-K**
- Kit (as above)
with set of 7 BSP nozzles **SC-7B-K**
- Kit (as above)
with set of 7 NPT nozzles **SC-7N-K**

Contact STAUFF for alternative connection adaptors and couplings.



STAUFF Clean Nozzles / Nozzle Sets

Universal Nozzle Set (SC-U-SET)

The Universal Nozzle is designed with a tapered seat that will allow it to suit for 90% of applications, including Hose, Tube and Pipe, with or without fittings, in hydraulic and pneumatic pipe systems, condenser tubes, boiler tubes and food lines.

The Universal Nozzle kit fits all and will accommodate applications with JIC, SAE and BSP end fittings.

The set of 10 nozzles consists of the following sizes: 6 mm, 8 mm, 10 mm, 13 mm, 16 mm, 19 mm, 25 mm and 32 mm.

JIC Nozzle Set (SC-J-SET)

The JIC Nozzle is designed specifically for use with JIC and SAE type fittings. The nozzles are machined to accommodate both male and female configuration, ensuring a perfect airtight seal every time.

The set of 10 nozzles consist of the following sizes: 6 mm, 8 mm, 10 mm, 13 mm, 16 mm, 19 mm, 25 mm, 32 mm, 38 mm and 50 mm.

Metric Tube Nozzle Set (SC-M-SET)

The Metric Tube Nozzle is intended for use specifically with Metric sized tube and is designed to fit over the outside of the tube or pipe being cleaned.

The inside diameter of the nozzle is reduced to match the inside diameter of the tube. The nozzles are machined from solid bar stock and designed for superior strength.

The set of 18 nozzles consist of the following sizes: 6 mm, 8 mm, 10 mm, 12 mm, 14 mm, 15 mm, 16 mm, 18 mm, 20 mm, 22 mm, 25 mm, 28 mm, 30 mm, 35 mm, 38 mm, 42 mm, 50 mm and 60 mm.

BSP Nozzle Set (SC-B-SET)

The BSP Nozzle is designed specifically for BSP configuration fittings. The nozzles are machined to accommodate both male and female configurations, ensuring a perfect airtight seal every time.

The set of 7 nozzles consist of the following sizes: 6 mm, 10 mm, 13 mm, 16 mm, 19 mm, 25 mm and 32 mm.



Adaptor Ring for Nozzels (SCN-AR)
Required for sizes 6-32 mm / 1/4-1 1/4 in

If required, nozzles can be supplied separately. Contact STAUFF for details.

NPT Nozzle Set (SC-N-SET)

The NPT Nozzle is designed specifically for NPT configuration fittings. The nozzles are machined to accommodate both male and female configurations, ensuring a perfect airtight seal every time.

The set of 7 nozzles consist of the following sizes: 1/4 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in, 1 in and 1 1/4 in.

STAUFF Clean Projectiles

Coupling Series (SCP-C)

Intended for the cleaning of hose assemblies (hose with end fittings, adjustments, etc.) or the removal of loose contamination from pipe, tube or hose.



Abrasive Series (SCP-A)

Intended for the internal cleaning of metal pipe and tube to remove light contaminants (rust and scale). They are recognised by the shorter abrasive pad fixed to one end of the projectile.



Grinding Series (SCP-G)

Intended for the internal cleaning of metal pipe and tube to remove medium and heavy contamination (rust and scale) from the internal surface. They are recognised by the longer abrasive pad fixed to one end of the projectile that is coated in Silicon Carbide.



| Size | Pipe / Tube / Hose ID | | Ordering Codes | | |
|------|-----------------------|--------|-------------------------|-------------------------|-------------------------|
| | (mm) | (in) | Coupling Series (SCP-C) | Abrasive Series (SCP-A) | Grinding Series (SCP-G) |
| 07 | 4,8 | 3/16 | SCP-C-07 | SCP-A-07 | SCP-G-07 |
| 09 | 6,4 | 1/4 | SCP-C-09 | SCP-A-09 | SCP-G-09 |
| 10 | 6,4 | 1/4 | SCP-C-10 | SCP-A-10 | SCP-G-10 |
| 12 | 7,9 | 5/16 | SCP-C-12 | SCP-A-12 | SCP-G-12 |
| 14 | 9,5 | 3/8 | SCP-C-14 | SCP-A-14 | SCP-G-14 |
| 16 | 11,1 | 7/16 | SCP-C-16 | SCP-A-16 | SCP-G-16 |
| 18 | 12,7 | 1/2 | SCP-C-18 | SCP-A-18 | SCP-G-18 |
| 20 | 14,3 | 9/16 | SCP-C-20 | SCP-A-20 | SCP-G-20 |
| 22 | 15,9 | 5/8 | SCP-C-22 | SCP-A-22 | SCP-G-22 |
| 26 | 19,1 | 3/4 | SCP-C-26 | SCP-A-26 | SCP-G-26 |
| 28 | 20,6 | 13/16 | SCP-C-28 | SCP-A-28 | SCP-G-28 |
| 30 | 22,2 | 7/8 | SCP-C-30 | SCP-A-30 | SCP-G-30 |
| 33 | 25,4 | 1 | SCP-C-33 | SCP-A-33 | SCP-G-33 |
| 36 | 26 / 27 | 1 1/16 | SCP-C-36 | SCP-A-36 | SCP-G-36 |
| 38 | 28,6 | 1 1/8 | - | SCP-A-38 | SCP-G-38 |
| 40 | 31,8 | 1 1/4 | SCP-C-40 | SCP-A-40 | SCP-G-40 |
| 45 | 34,9 | 1 3/8 | SCP-C-45 | SCP-A-45 | SCP-G-45 |
| 50 | 38,1 | 1 1/2 | SCP-C-50 | SCP-A-50 | SCP-G-50 |
| 55 | 44,5 | 1 3/4 | SCP-C-55 | SCP-A-55 | SCP-G-55 |
| 60 | 50,8 | 2 | SCP-C-60 | SCP-A-60 | SCP-G-60 |

Please note: For optimum cleaning, it is recommended that projectiles are used once and then discarded and disposed of in an appropriate way.

Safety note: A mesh collection bag should be secured to the pipe, tube or hose exit to avoid possible injury to personnel by the projectile exiting at high velocity.

Always wear protective safety glasses, ear protection and a dust mask when operating this system.



Thread Identification Board Type FI-TIB

Product Description

The STAUFF Thread Identification Board is intended to be used as a universal tool for workshops, warehouses or sales counters allowing quick and easy determination of common thread types and sizes, e.g. for male stud tube connectors and test couplings.

The board is available in two different versions:

FI-TIB-M/G

13 Metric Parallel Threaded Ports

M8 x 1 / M10 x 1 / M12 x 1,5 / M14 x 1,5 /
M16 x 1,5 / M18 x 1,5 / M20 x 1,5 / M22 x 1,5 /
M26 x 1,5 / M27 x 2 / M33 x 2 / M42 x 2 / M48 x 2

8 Whitworth Parallel Pipe Threaded Ports

G1/8 / G1/4 / G3/8 / G1/2 / G3/4 / G1 / G1 1/4 / G1 1/2

FI-TIB-N/U

8 National Pipe Threaded Ports

1/8–27 NPT / 1/4–18 NPT / 3/8–18 NPT /
1/2–14 NPT / 3/4–14 NPT / 1–11.5 NPT /
1 1/4–11.5 NPT / 1 1/2–11.5 NPT

9 UNF/UN Threaded Ports

7/16–20 UNF / 1/2–20 UNF / 9/16–18 UNF /
3/4–16 UNF / 7/8–14 UNF / 1 1/16–12 UN /
1 5/16–12 UN / 1 5/8–12 UN / 1 7/8–12 UN



Product Features

- Covering all relevant thread type and sizes of male stud tube connectors and test couplings
- Boards made of hardened quality steel
- Finished with an extremely resistant cathodic electrodeposition coating
- Laser markings indicating the thread types and sizes next to the threaded ports
- Non-slip rubber feet providing good stability

Technical Data

- Dimensions (W x D x H): 275 mm x 190 mm x 31 mm
10.82 in x 7.48 in x 1.22 in
- Clearance height: 13 mm / .51 in
(height of the rubber feet)
- Weight: 6,0 kg / 13.2 lbs

Note

Thread identification boards are intended to be tools for the basic determination of thread types and sizes. They do not replace high-precision thread gauges and measurement devices (should these become necessary at any point).



Manual Tube Bender Typ TUB-MA

Product Description

When used with a commercially available vice, STAUFF manual tube benders, type TUB-MA, enable common hydraulic tubes to be bent manually.

They are suitable for steel and stainless steel tubes with diameters of 6, 8, 10, 12, 14, 15, 16, 18 and 22 mm with a defined minimum wall thickness.

In addition to the metric version, a model for handling inch-gauge tubes with diameters of between 1/4 and 7/8 inches is also available.

The eight bending rollers – six in the imperial version – ensure maximum wear.

A scale lasered onto the bending rollers enhances the accuracy of the required bending angle with superior precision.

The manual tube bender is supplied with all the necessary components and multilingual instructions for use as a complete kit in a high-quality steel case.



Spare Parts / Accessories

www.stauff.com/en/tub-ma/repairparts



Technical Data

- Dimensions (W x D x H):
640 mm x 165 mm x 70 mm
25.20 in x 6.50 in x 2.76 in
- Weight (incl. Case):
Metric Version 13,8 kg / 30.4 lbs
Imperial Version 12,1 kg / 26.7 lbs

TUB-MA-M622-LV-KIT (metric Version)

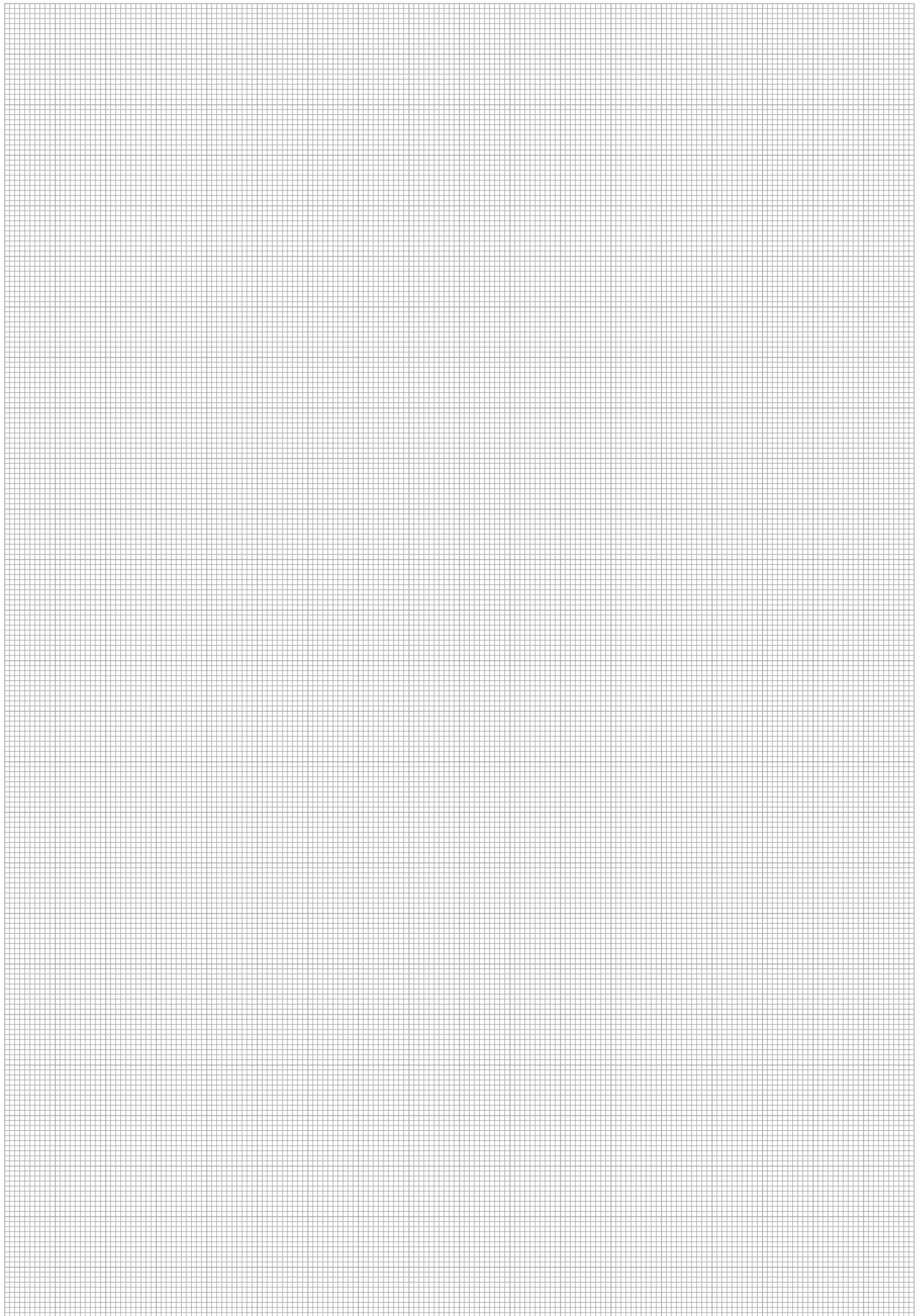
TUB-MA-I4140D-LV-KIT (imperial Version)

Product Features

- Small bending radii allow for compact assemblies
- Optimised bending contour, which enables tube bends free of flattening and constriction
- hard wearing steel bending rolls
- ideal for versatile site use, possibly for installation work on site

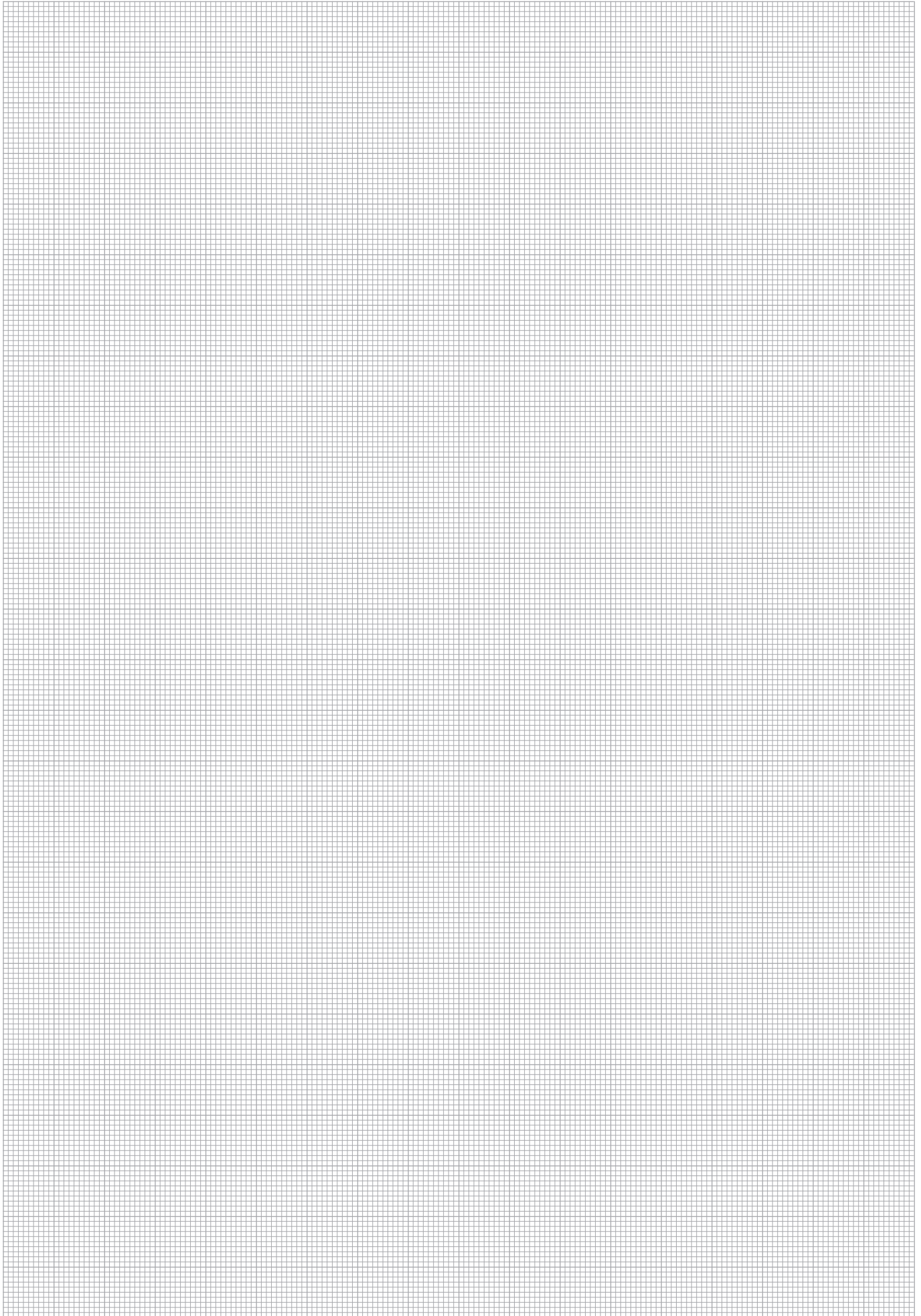
| Outer Diameter | Metric | Inch | Radius | Minimum Wall Thickness |
|----------------------|--------|------|-----------------|------------------------|
| 6/8 mm (1/4"/ 5/16") | ● | ● | 33 mm / 1.30 in | < 1,5 mm / .06 in |
| 10 mm (3/8") | | | | |
| 12 mm | ● | | | 1,5 mm / .06 in |
| 1/2" | | ● | 40 mm / 1.57 in | 2,0 mm / .08 in |
| 14 mm | ● | | | 1,5 mm / .06 in |
| 15 mm | ● | | | 1,5 mm / .06 in |
| 16 mm (5/8") | ● | ● | 48 mm / 1.89 in | 1,5 mm / .06 in |
| 18 mm | ● | | | 2,0 mm / .08 in |
| 3/4" | | ● | | 1,5 mm / .06 in |
| 20 mm | ● | | | 2,0 mm / .08 in |
| 22 mm (7/8") | ● | ● | | |





P





P





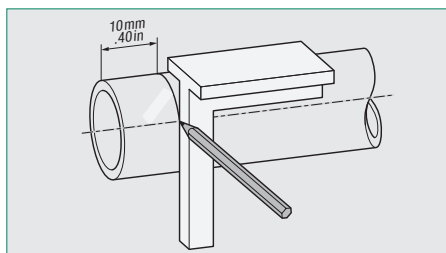
| | |
|---|----------------|
| Assembly Instructions for STAUFF Connect 24° Tube Fittings with Double Edge Cutting Ring (Type FI-DS) | 246-253 |
| 100% Assembly with the Manual Final Assembly Stud (Type FI-FK) and Assembly with the Fitting Body | 246 |
| 50% Assembly with the Manual Pre-Assembly Stud (Type FI-VK) and Assembly with the Fitting Body | 248 |
| Direct Assembly with the Fitting Body | 250 |
| Machine-Assisted 100% Assembly with a STAUFF Press Assembly Machine and Assembly with the Fitting Body | 252 |
| Machine-Assisted 50% Assembly with a STAUFF Press Assembly Machine and Assembly with the Fitting Body | 253 |
| Assembly Instructions for STAUFF Connect 24° Tube Fittings with Soft-Sealing Cutting Ring (Type FI-WDDS) | 254-261 |
| 100% Assembly with the Manual Final Assembly Stud (Type FI-FK) and Assembly with the Fitting Body | 254 |
| 50% Assembly with the Manual Pre-Assembly Stud (Type FI-VK) and Assembly with the Fitting Body | 256 |
| Direct Assembly with the Fitting Body | 258 |
| Machine-Assisted 100% Assembly with a STAUFF Press Assembly Machine and Assembly with the Fitting Body | 260 |
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| Assembly Instructions for Support Sleeves | 262 |
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| Assembly Instructions for Tube Fittings with 24° Taper and O-Ring | 274 |
| Assembly Instructions for Tube Fittings with Standpipe | 274 |
| Assembly Instructions for Tube Fittings with Male Threaded Stud | 275 |
| Assembly Instructions for Banjo Fittings | 276 |



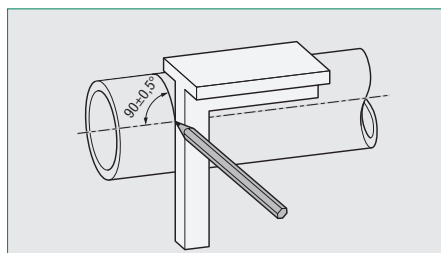
Assembly Instructions for STAUFF Connect 24° Tube Fittings with Double Edge Cutting Ring (Type FI-DS)

100% Assembly with the Manual Final Assembly Stud (Type FI-FK) and Assembly with the Fitting Body

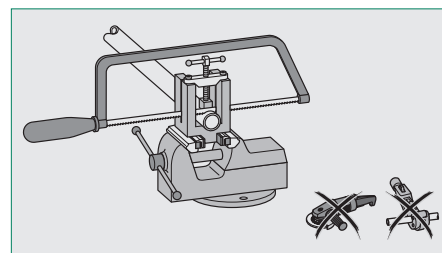
1. Tube Preparation



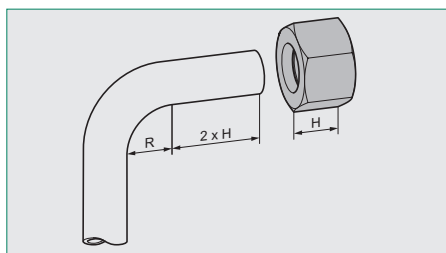
Saw off tube in right angle and at least 10 mm / .40 in from the cut made by the tube manufacturer / supplier in order to avoid failures caused during shipment.



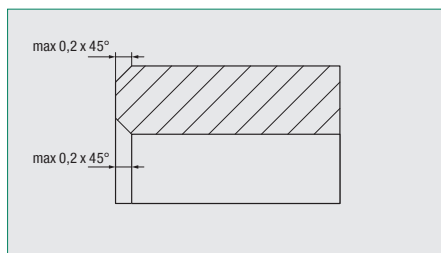
A maximum angular deviation / tolerance of $\pm 0,5^\circ$ relative to the tube axis is permissible.



Only use proper tube sawing machinery or equipment. Do not use tube cutters or grinders as this may result in unwanted angled cuts and cause severe burring.



For tube bends, the length of the straight section of the tube end to the start of the bending radius has to be twice the height of the union nut.

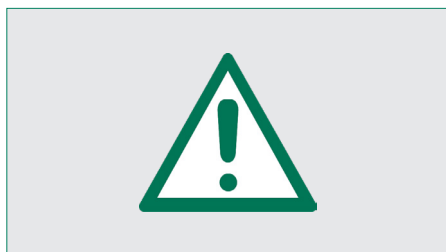


Slightly deburr inside and outside of the tube end (max 0,2 x 45°). The assembly area of the tube has to be free of contamination, chips and paint.

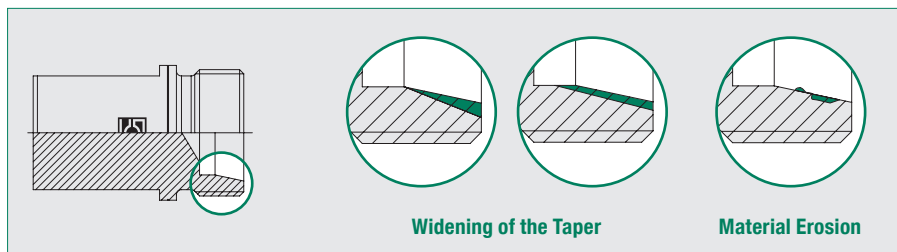


Please note: Improperly prepared and contaminated tubes will affect the service life of the connection and may result in leakage.

2. Assembly Preparation

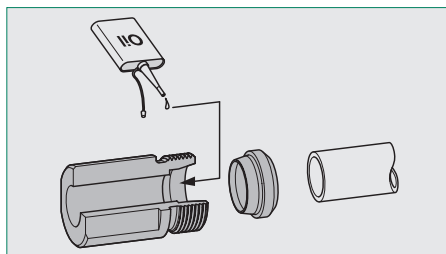


Please note: Hardened final assembly studs are wear-resistant, thus allowing for consistent assembly results with a maximum degree of accuracy, reliability and process stability.



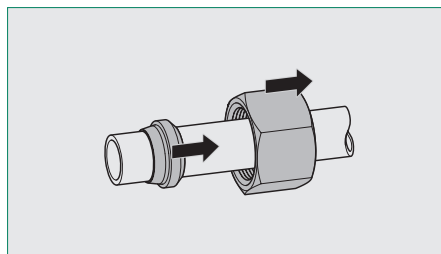
However, they have to be checked for dimensional accuracy regularly. Assembly studs that are damaged and/or dimensionally not accurate must be replaced under any circumstances!

Typical damages include widening of the 24° angle or the entire taper, as well as material erosion.



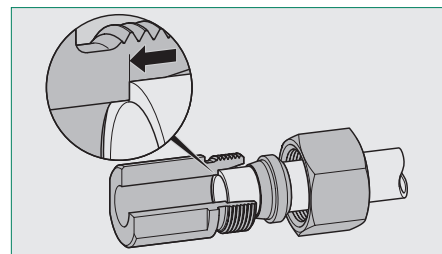
Lightly lubricate the 24° taper of the final assembly stud (e.g. using mineral-oil based hydraulic fluid HLP32). Do not use lubricating grease!

Immediately proceed with the assembly in order to avoid exposure to contamination.



Consecutively put the union nut first and then the cutting ring onto the tube end.

Pay attention to the correct alignment of the cutting ring: The cutting edges have to face to the tube end.



Carefully insert the tube end into the 24° taper of the final assembly stud and push it firmly against the inner stop.

The tube must be held in this position during the entire assembly process in order to avoid faulty assembly.

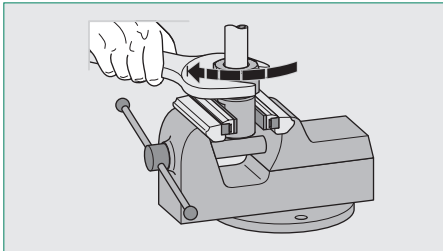
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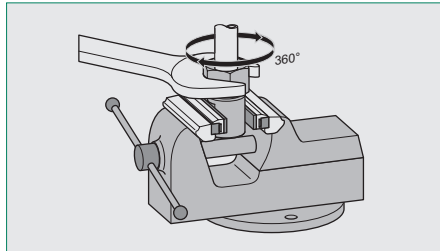
Assembly Instructions for STAUFF Connect 24° Tube Fittings with Double Edge Cutting Ring (Type FI-DS)

100% Assembly with the Manual Final Assembly Stud (Type FI-FK) and Assembly with the Fitting Body

3. Assembly in the Assembly Stud

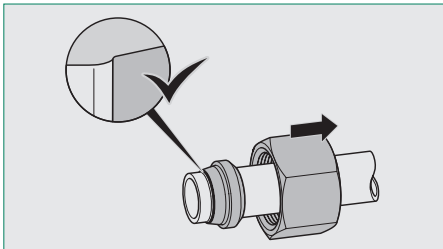


Tighten the union nut until the noticeable increase in force (pressure point). The cutting ring now grips the tube, which can no longer be rotated.



Use a suitable spanner to tighten the union nut another full turn (360°) beyond the pressure point. In doing so, the cutting ring will uniformly cut into the tube.

4. Inspection



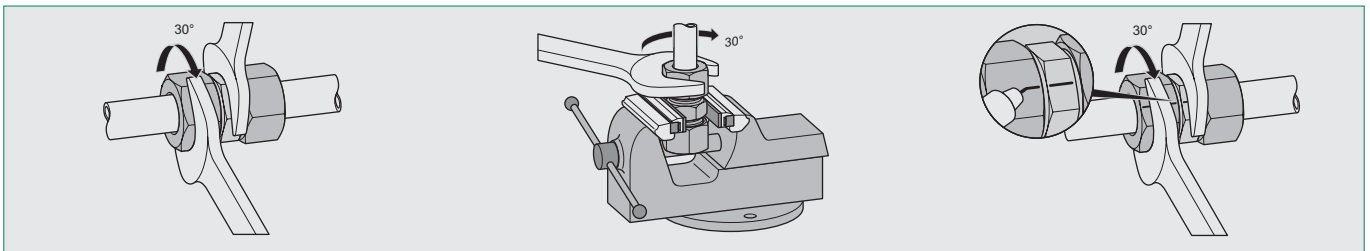
Fully untighten the union nut for a visual inspection after the assembly. A raise of tube material must be clearly visible in front of the cutting edge.

In this position, it is still permissible for the cutting ring to turn on the tube, but not to be displaced in axial direction of the tube.



Please note: If not enough tube material has been raised in front of the cutting edge or if the cutting ring is still capable of being displaced in axial direction, the assembly procedure must be repeated by using more force, and the result must be re-checked.

5. Assembly with the Fitting Body



Carefully insert the assembled tube end into the 24° taper of the fitting body.

Use a suitable spanner to tighten the union nut until the noticeable increase in force, and then finish the assembly with another approximately 1/12 a turn (30°) beyond this point.

Always use a second spanner to hold the fitting body during the entire assembly procedure.

In case of unfavourable mounting conditions or larger tube dimensions, use a bench vice for the assembly.

A marking line applied on the union nut and the fitting body makes it easier to indicate the sufficient tightening angle.

6. Repeated Assembly

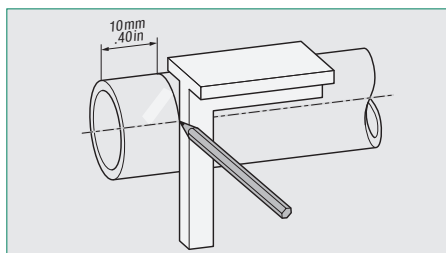
For repeated assemblies, please use a suitable spanner to tighten the union nut until the noticeable increase in force, and then finish the assembly with another approximately 1/12 a turn (30°) beyond this point.



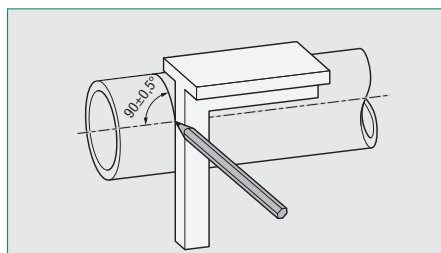
Assembly Instructions for STAUFF Connect 24° Tube Fittings with Double Edge Cutting Ring (Type FI-DS)

50% Assembly with the Manual Pre-Assembly Stud (Type FI-VK) and Assembly with the Fitting Body

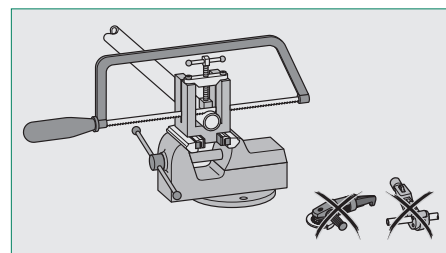
1. Tube Preparation



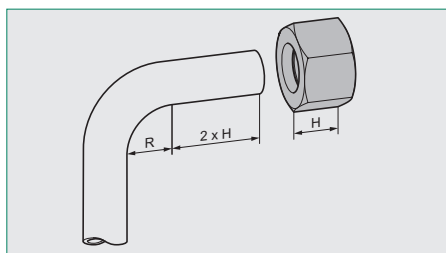
Saw off tube in right angle and at least 10 mm / .40 in from the cut made by the tube manufacturer / supplier in order to avoid failures caused during shipment.



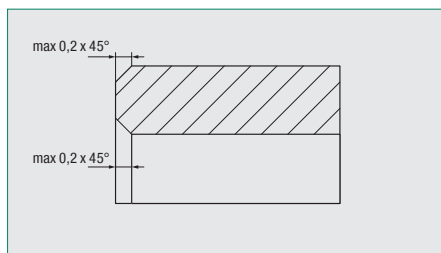
A maximum angular deviation / tolerance of $\pm 0,5^\circ$ relative to the tube axis is permissible.



Only use proper tube sawing machinery or equipment. Do not use tube cutters or grinders as this may result in unwanted angled cuts and cause severe burring.



For tube bends, the length of the straight section of the tube end to the start of the bending radius has to be twice the height of the union nut.



Slightly deburr inside and outside of the tube end (max 0,2 x 45°). The assembly area of the tube has to be free of contamination, chips and paint.

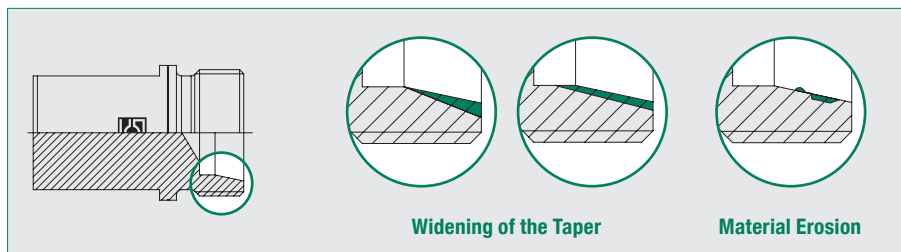


Please note: Improperly prepared and contaminated tubes will affect the service life of the connection and may result in leakage.

2. Assembly Preparation

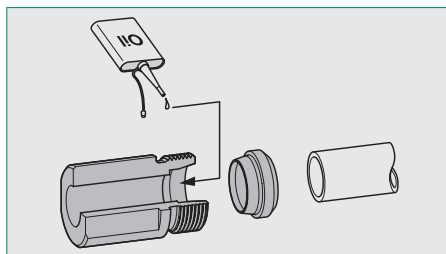


Please note: Hardened pre-assembly studs are wear-resistant, thus allowing for consistent assembly results with a maximum degree of accuracy, reliability and process stability.



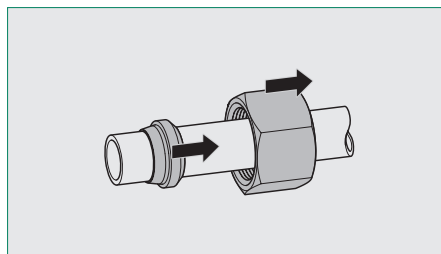
However, they have to be checked for dimensional accuracy regularly. Assembly studs that are damaged and/or dimensionally not accurate must be replaced under any circumstances!

Typical damages include widening of the 24° angle or the entire taper, as well as material erosion.



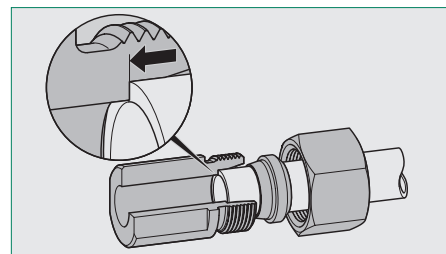
Lightly lubricate the 24° taper of the pre-assembly stud (e.g. using mineral-oil based hydraulic fluid HLP32). Do not use lubricating grease!

Immediately proceed with the assembly in order to avoid exposure to contamination.



Consecutively put the union nut first and then the cutting ring onto the tube end.

Pay attention to the correct alignment of the cutting ring: The cutting edges have to face to the tube end.



Carefully insert the tube end into the 24° taper of the pre-assembly stud and push it firmly against the inner stop.

The tube must be held in this position during the entire assembly process in order to avoid faulty assembly.

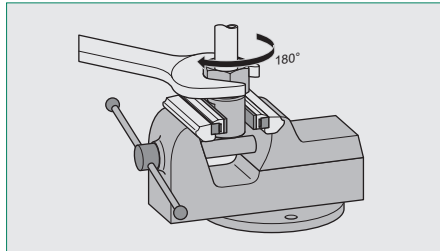
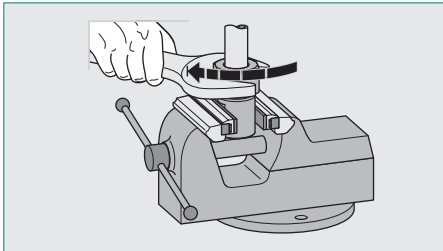
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Assembly Instructions for STAUFF Connect 24° Tube Fittings with Double Edge Cutting Ring (Type FI-DS)

50% Assembly with the Manual Pre-Assembly Stud (Type FI-VK) and Assembly with the Fitting Body

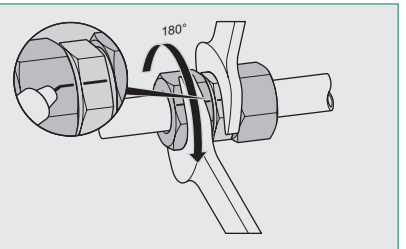
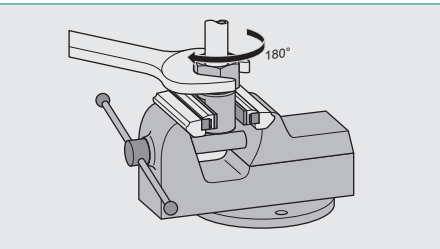
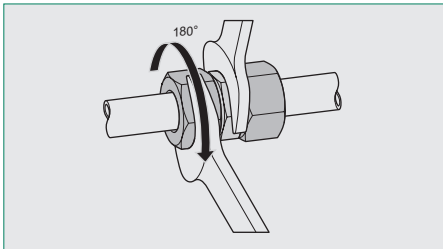
3. Assembly in the Assembly Stud



Tighten the union nut until the noticeable increase in force (pressure point). The cutting ring now grips the tube, which can no longer be rotated.

Use a suitable spanner to tighten the union nut another 1/2 a turn (180°) beyond the pressure point. In doing so, the cutting ring will uniformly cut into the tube.

4. Assembly with the Fitting Body



Carefully insert the assembled tube end into the 24° taper of the fitting body.

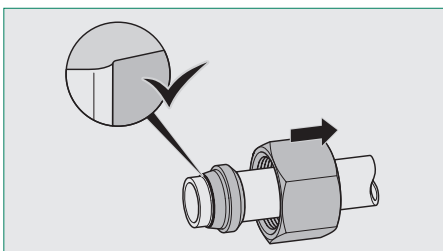
Use a suitable spanner to tighten the union nut until the noticeable increase in force, and then finish the assembly with another approximately 1/2 a turn (180°) beyond this point.

Always use a second spanner to hold the fitting body during the entire assembly procedure.

In case of unfavourable mounting conditions or larger tube dimensions, use a bench vice for the assembly.

A marking line applied on the union nut and the fitting body makes it easier to indicate the sufficient tightening angle.

5. Inspection



Fully untighten the union nut for a visual inspection after the assembly. A raise of tube material must be clearly visible in front of the cutting edge.

In this position, it is still permissible for the cutting ring to turn on the tube, but not to be displaced in axial direction of the tube.

Please note: If not enough tube material has been raised in front of the cutting edge or if the cutting ring is still capable of being displaced in axial direction, the assembly procedure must be repeated by using more force, and the result must be re-checked.

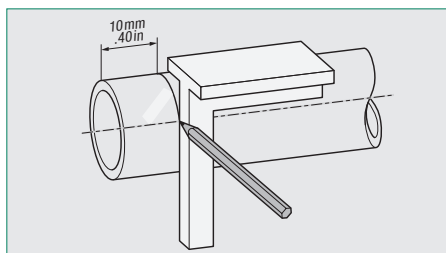
6. Repeated Assembly

For repeated assemblies, please use a suitable spanner to tighten the union nut until the noticeable increase in force, and then finish the assembly with another approximately 1/12 a turn (30°) beyond this point.

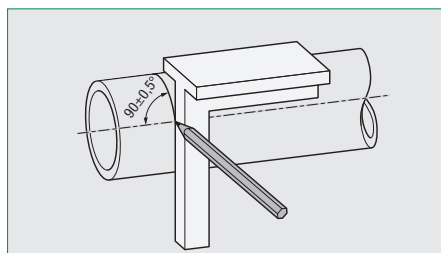


Assembly Instructions for STAUFF Connect 24° Tube Fittings with Double Edge Cutting Ring (Type FI-DS) Direct Assembly with the Fitting Body

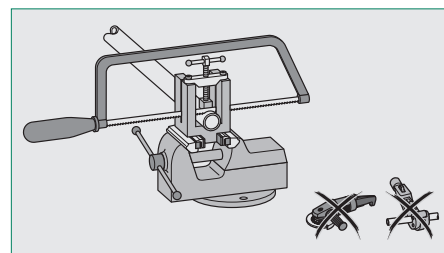
1. Tube Preparation



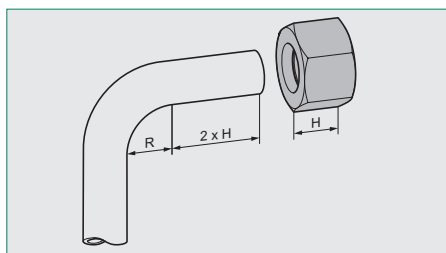
Saw off tube in right angle and at least 10 mm / .40 in from the cut made by the tube manufacturer / supplier in order to avoid failures caused during shipment.



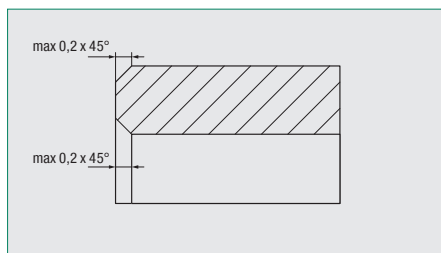
A maximum angular deviation / tolerance of $\pm 0,5^\circ$ relative to the tube axis is permissible.



Only use proper tube sawing machinery or equipment. Do not use tube cutters or grinders as this may result in unwanted angled cuts and cause severe burring.



For tube bends, the length of the straight section of the tube end to the start of the bending radius has to be twice the height of the union nut.

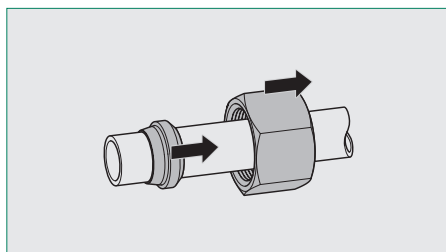


Slightly deburr inside and outside of the tube end (max 0,2 x 45°). The assembly area of the tube has to be free of contamination, chips and paint.



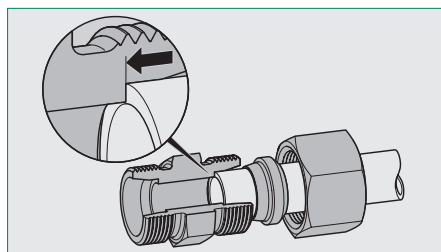
Please note: Improperly prepared and contaminated tubes will affect the service life of the connection and may result in leakage.

2. Assembly Preparation



Consecutively put the union nut first and then the cutting ring onto the tube end.

Pay attention to the correct alignment of the cutting ring: The cutting edges have to face to the tube end.



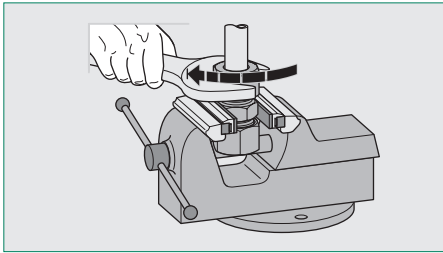
Carefully insert the tube end into the 24° taper of the fitting body and push it firmly against the inner stop.

The tube must be held in this position during the entire assembly process in order to avoid faulty assembly.

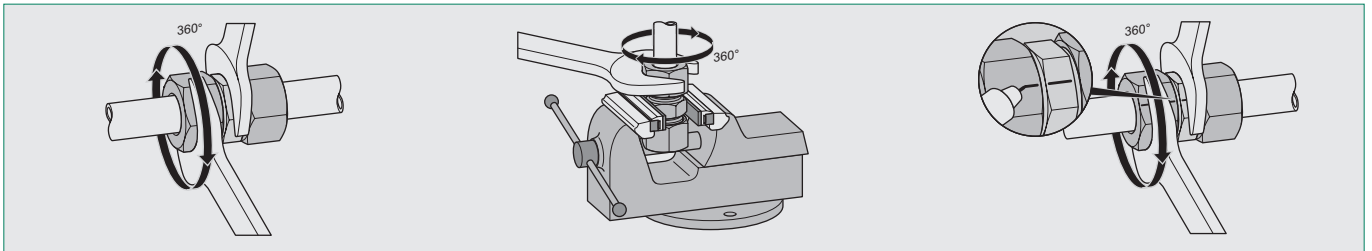


Assembly Instructions for STAUFF Connect 24° Tube Fittings with Double Edge Cutting Ring (Type FI-DS) Direct Assembly with the Fitting Body

3. Assembly in the Fitting Body



Tighten the union nut until the noticeable increase in force (pressure point). The cutting ring now grips the tube, which can no longer be rotated.



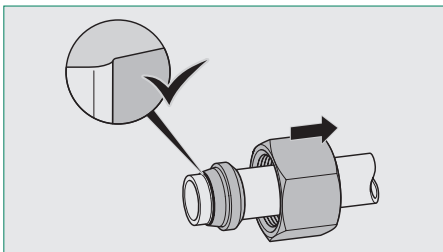
Use a suitable spanner to tighten the union nut another full turn (360°) beyond the pressure point. In doing so, the cutting ring will uniformly cut into the tube.

Always use a second spanner to hold the fitting body during the entire assembly procedure.

In case of unfavourable mounting conditions or larger tube dimensions, use a bench vice for the assembly.

A marking line applied on the union nut and the fitting body makes it easier to indicate the sufficient tightening angle.

4. Inspection



Fully untighten the union nut for a visual inspection after the assembly. A raise of tube material must be clearly visible in front of the cutting edge.

In this position, it is still permissible for the cutting ring to turn on the tube, but not to be displaced in axial direction of the tube.



Please note: If not enough tube material has been raised in front of the cutting edge or if the cutting ring is still capable of being displaced in axial direction, the assembly procedure must be repeated by using more force, and the result must be re-checked.

5. Repeated Assembly

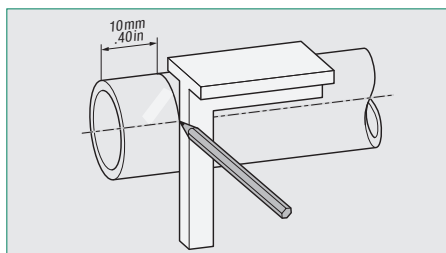
For repeated assemblies, please use a suitable spanner to tighten the union nut until the noticeable increase in force, and then finish the assembly with another approximately 1/12 a turn (30°) beyond this point.



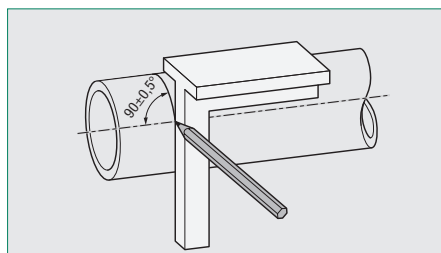
Assembly Instructions for STAUFF Connect 24° Tube Fittings with Double Edge Cutting Ring (Type FI-DS)

Machine-Assisted 100% Assembly with a STAUFF Press Assembly Machine and Assembly with the Fitting Body

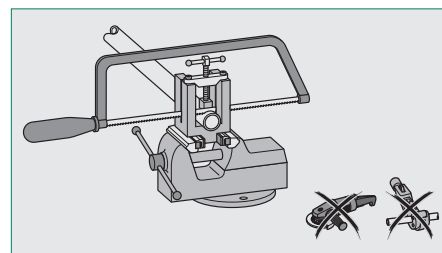
1. Tube Preparation



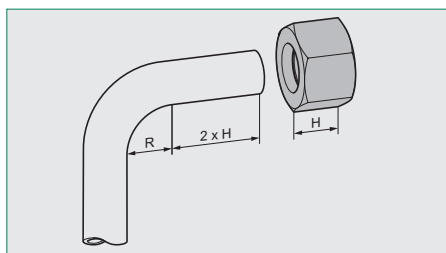
Saw off tube in right angle and at least 10 mm / .40 in from the cut made by the tube manufacturer / supplier in order to avoid failures caused during shipment.



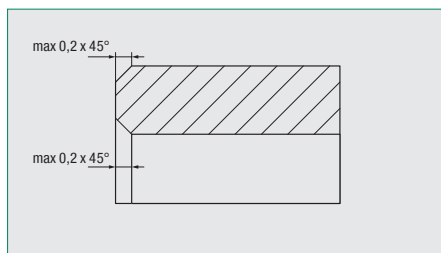
A maximum angular deviation / tolerance of $\pm 0,5^\circ$ relative to the tube axis is permissible.



Only use proper tube sawing machinery or equipment. Do not use tube cutters or grinders as this may result in unwanted angled cuts and cause severe burring.



For tube bends, the length of the straight section of the tube end to the start of the bending radius has to be twice the height of the union nut.



Slightly deburr inside and outside of the tube end (max $0,2 \times 45^\circ$). The assembly area of the tube has to be free of contamination, chips and paint.



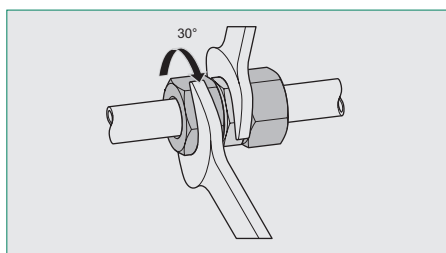
Please note: Improperly prepared and contaminated tubes will affect the service life of the connection and may result in leakage.

2. Assembly Preparation, Machine-Assisted Assembly and Inspection

With regards to assembly preparation, the actual assembly as well as the inspection of assembled tube ends, please follow the detailed instructions in the operating manual of the machine.

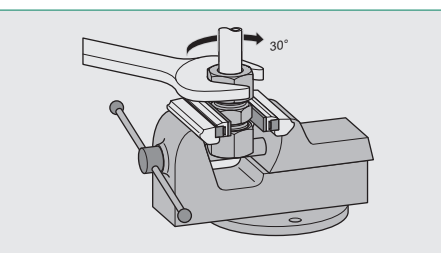


3. Assembly with the Fitting Body



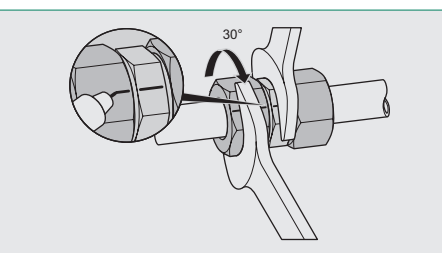
Carefully insert the assembled tube end into the 24° taper of the fitting body.

Use a suitable spanner to tighten the union nut until the noticeable increase in force, and then finish the assembly with another approximately 1/12 a turn (30°) beyond this point.



Always use a second spanner to hold the fitting body during the entire assembly procedure.

In case of unfavourable mounting conditions or larger tube dimensions, use a bench vice for the assembly.



A marking line applied on the union nut and the fitting body makes it easier to indicate the sufficient tightening angle.

4. Repeated Assembly

For repeated assemblies, please use a suitable spanner to tighten the union nut until the noticeable increase in force, and then finish the assembly with another approximately 1/12 a turn (30°) beyond this point.

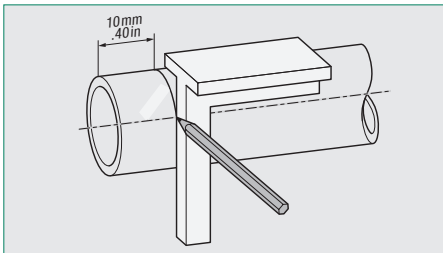
Q



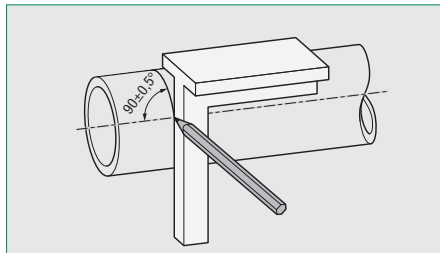
Assembly Instructions for STAUFF Connect 24° Tube Fittings with Double Edge Cutting Ring (Type FI-DS)

Machine-Assisted 50% Assembly with a STAUFF Press Assembly Machine and Assembly with the Fitting Body

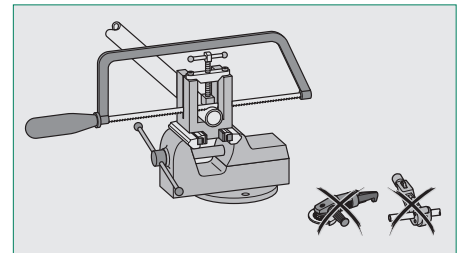
1. Tube Preparation



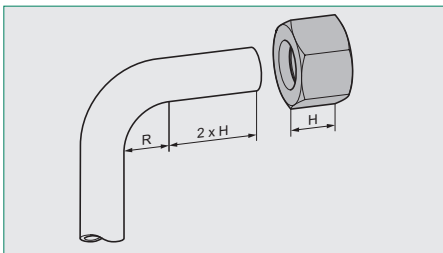
Saw off tube in right angle and at least 10 mm / .40 in from the cut made by the tube manufacturer / supplier in order to avoid failures caused during shipment.



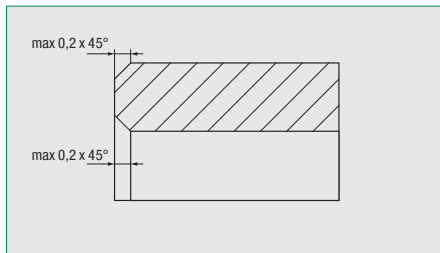
A maximum angular deviation / tolerance of $\pm 0,5^\circ$ relative to the tube axis is permissible.



Only use proper tube sawing machinery or equipment. Do not use tube cutters or grinders as this may result in unwanted angled cuts and cause severe burring.



For tube bends, the length of the straight section of the tube end to the start of the bending radius has to be twice the height of the union nut.



Slightly deburr inside and outside of the tube end (max $0,2 \times 45^\circ$). The assembly area of the tube has to be free of contamination, chips and paint.



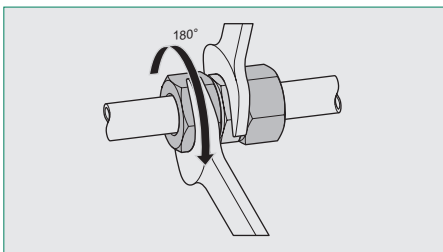
Please note: Improperly prepared and contaminated tubes will affect the service life of the connection and may result in leakage.

2. Assembly Preparation, Machine-Assisted Assembly and Inspection

With regards to assembly preparation, the actual assembly as well as the inspection of assembled tube ends, please follow the detailed instructions in the operating manual of the machine.

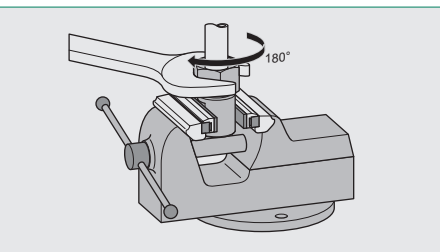


3. Assembly with the Fitting Body



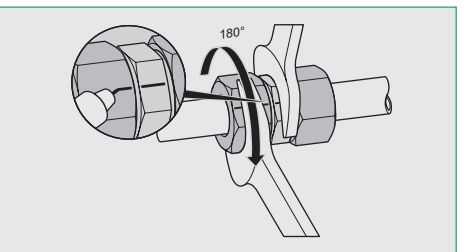
Carefully insert the assembled tube end into the 24° taper of the fitting body.

Use a suitable spanner to tighten the union nut until the noticeable increase in force, and then finish the assembly with another approximately 1/2 a turn (180°) beyond this point.



Always use a second spanner to hold the fitting body during the entire assembly procedure.

In case of unfavourable mounting conditions or larger tube dimensions, use a bench vice for the assembly.



A marking line applied on the union nut and the fitting body makes it easier to indicate the sufficient tightening angle.

4. Repeated Assembly

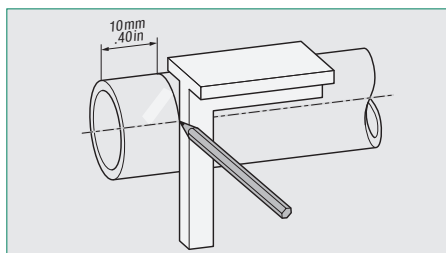
For repeated assemblies, please use a suitable spanner to tighten the union nut until the noticeable increase in force, and then finish the assembly with another approximately 1/12 a turn (30°) beyond this point.



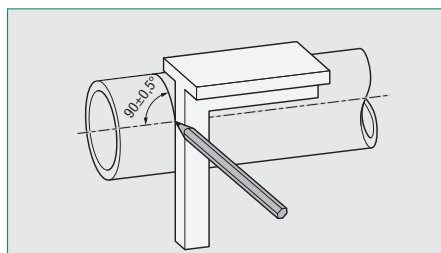
Assembly Instructions for STAUFF Connect 24° Tube Fittings with Soft-Sealing Cutting Ring (Type FI-WDDS)

100% Assembly with the Manual Final Assembly Stud (Type FI-FK) and Assembly with the Fitting Body

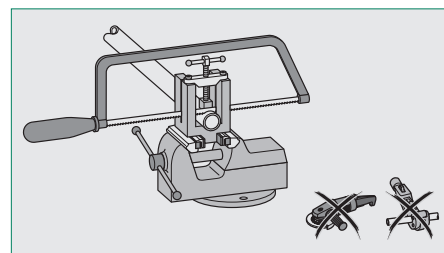
1. Tube Preparation



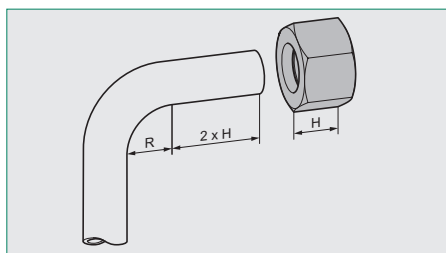
Saw off tube in right angle and at least 10 mm / .40 in from the cut made by the tube manufacturer / supplier in order to avoid failures caused during shipment.



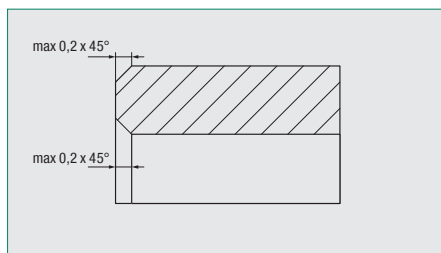
A maximum angular deviation / tolerance of $\pm 0,5^\circ$ relative to the tube axis is permissible.



Only use proper tube sawing machinery or equipment. Do not use tube cutters or grinders as this may result in unwanted angled cuts and cause severe burring.



For tube bends, the length of the straight section of the tube end to the start of the bending radius has to be twice the height of the union nut.



Slightly deburr inside and outside of the tube end (max 0,2 x 45°). The assembly area of the tube has to be free of contamination, chips and paint.

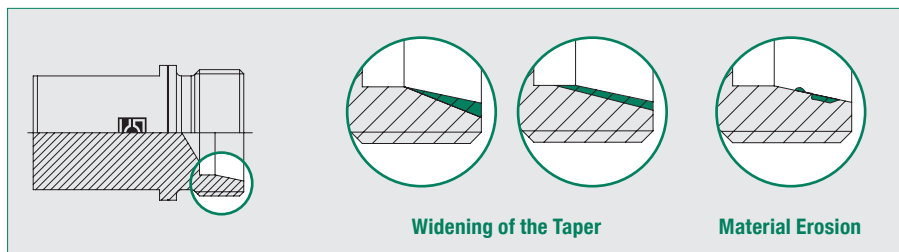


Please note: Improperly prepared and contaminated tubes will affect the service life of the connection and may result in leakage.

2. Assembly Preparation

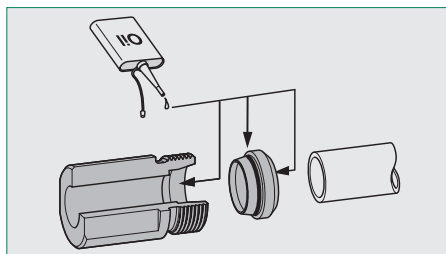


Please note: Hardened assembly studs are wear-resistant, thus allowing for consistent assembly results with a maximum degree of accuracy, reliability and process stability.



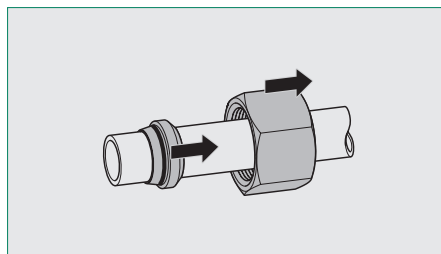
However, they have to be checked for dimensional accuracy regularly. Assembly studs that are damaged and/or dimensionally not accurate must be replaced under any circumstances!

Typical damages include widening of the 24° angle or the entire taper, as well as material erosion.



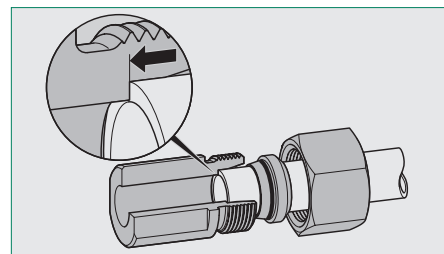
Lightly lubricate the 24° taper of the assembly stud as well as the two soft-sealing elements of the cutting ring (e.g. using mineral-oil based hydraulic fluid HLP32). Do not use lubricating grease!

Immediately proceed with the assembly in order to avoid exposure to contamination.



Consecutively put the union nut first and then the cutting ring onto the tube end.

Pay attention to the correct alignment of the cutting ring: The cutting edges have to face to the tube end.



Carefully insert the tube end into the 24° taper of the final assembly stud and push it firmly against the inner stop.

The tube must be held in this position during the entire assembly process in order to avoid faulty assembly.

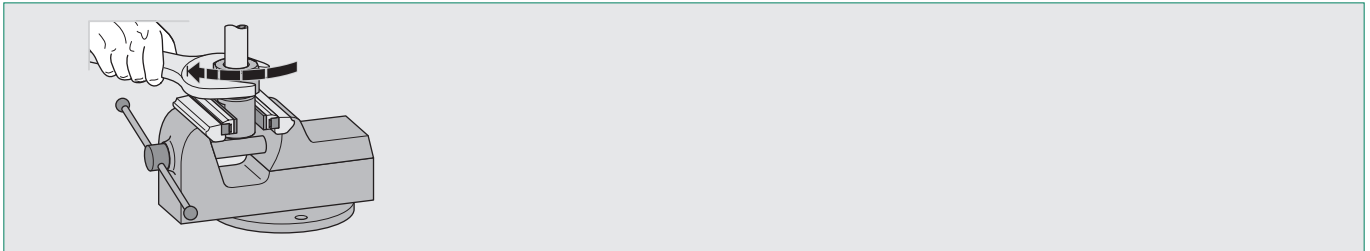
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Assembly Instructions for STAUFF Connect 24° Tube Fittings with Soft-Sealing Cutting Ring (Type FI-WDDS)

100% Assembly with the Manual Final Assembly Stud (Type FI-FK) and Assembly with the Fitting Body

3. Assembly in the Assembly Stud

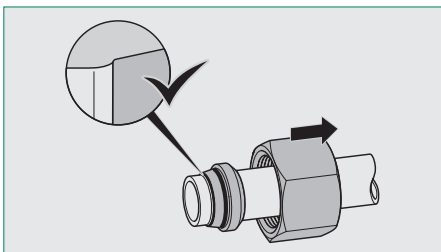


Use a suitable spanner to tighten the union nut until the point where the cutting ring comes into contact and sits closely with the face side of the fitting body, and pretension it.

This point is characterised by a significant increase in force and typically situated 1 to 1 1/2 turns (360° to 540°) beyond the pressure point.

At this point, the cutting ring starts gripping the tube, which can no longer be rotated.

4. Inspection

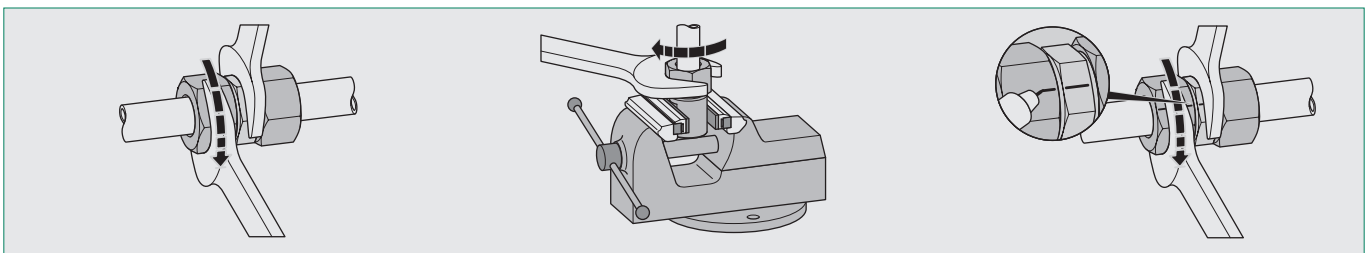


Fully untighten the union nut for a visual inspection after the assembly. A raise of tube material must be clearly visible in front of the cutting edge.

In this position, it is still permissible for the cutting ring to turn on the tube, but not to be displaced in axial direction of the tube.

Please note: If not enough tube material has been raised in front of the cutting edge or if the cutting ring is still capable of being displaced in axial direction, the assembly procedure must be repeated by using more force, and the result must be re-checked.

5. Assembly with the Fitting Body



Lightly lubricate the soft-sealing element located on the 24° taper of the cutting ring (e.g. using mineral-oil based hydraulic fluid HLP32). Do not use lubricating grease!

Immediately proceed with the assembly in order to avoid exposure to contamination.

Carefully insert the assembled tube end into the 24° taper of the fitting body.

Use a suitable spanner to tighten the union nut until the point where the cutting ring comes into contact and sits closely with the face side of the fitting body, and pretension it. This point is characterised by a significant increase in force.

Always use a second spanner to hold the fitting body during the entire assembly procedure.

In case of unfavourable mounting conditions or larger tube dimensions, use a bench vice for the assembly.

A marking line applied on the union nut and the fitting body makes it easier to indicate the sufficient tightening angle.

6. Repeated Assembly

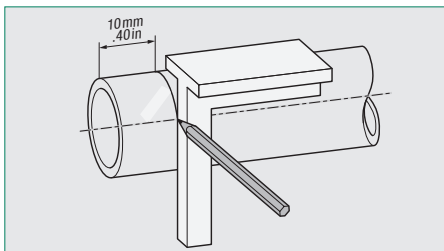
Check the soft-sealing element located on the 24° taper of the cutting ring for possible damages.

Use a suitable spanner to tighten the union nut until the point where the cutting ring comes into contact and sits closely with the face side of the fitting body, and pretension it. This point is characterised by a significant increase in force.

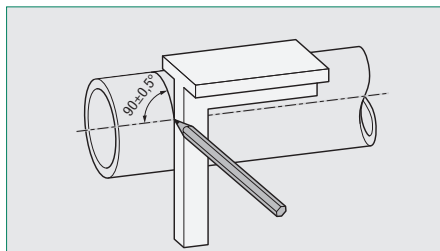


Assembly Instructions for STAUFF Connect 24° Tube Fittings with Soft-Sealing Cutting Ring (Type FI-WDDS) 50% Assembly with the Manual Pre-Assembly Stud (Type FI-VK) and Assembly with the Fitting Body

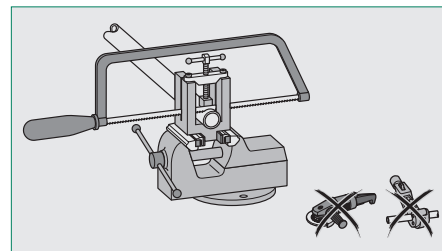
1. Tube Preparation



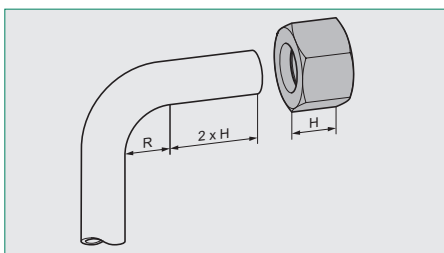
Saw off tube in right angle and at least 10 mm / .40 in from the cut made by the tube manufacturer / supplier in order to avoid failures caused during shipment.



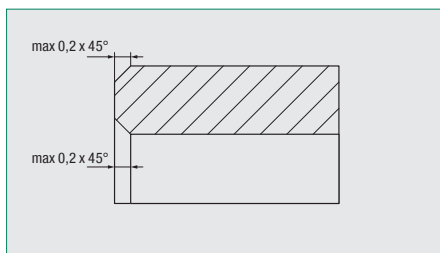
A maximum angular deviation / tolerance of $\pm 0,5^\circ$ relative to the tube axis is permissible.



Only use proper tube sawing machinery or equipment. Do not use tube cutters or grinders as this may result in unwanted angled cuts and cause severe burring.



For tube bends, the length of the straight section of the tube end to the start of the bending radius has to be twice the height of the union nut.

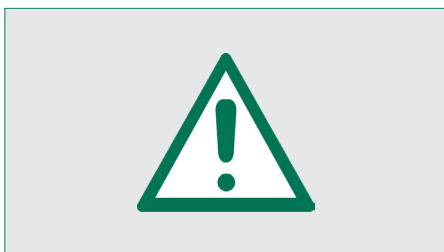


Slightly deburr inside and outside of the tube end (max 0,2 x 45°). The assembly area of the tube has to be free of contamination, chips and paint.

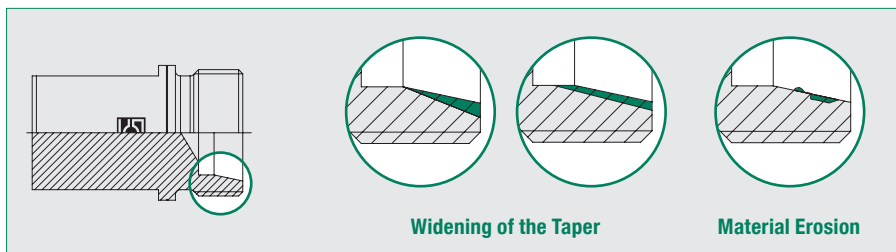


Please note: Improperly prepared and contaminated tubes will affect the service life of the connection and may result in leakage.

2. Assembly Preparation

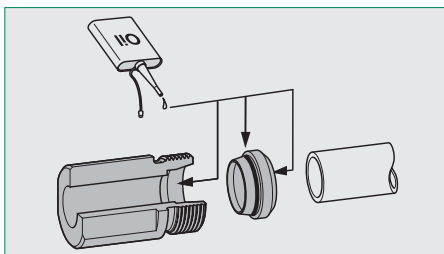


Please note: Hardened assembly studs are wear-resistant, thus allowing for consistent assembly results with a maximum degree of accuracy, reliability and process stability.



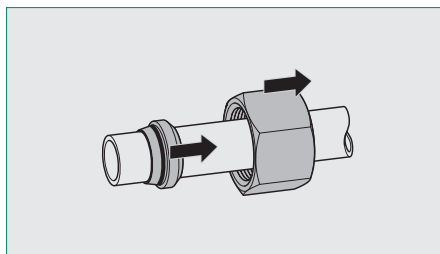
However, they have to be checked for dimensional accuracy regularly. Assembly studs that are damaged and/or dimensionally not accurate must be replaced under any circumstances!

Typical damages include widening of the 24° angle or the entire taper, as well as material erosion.



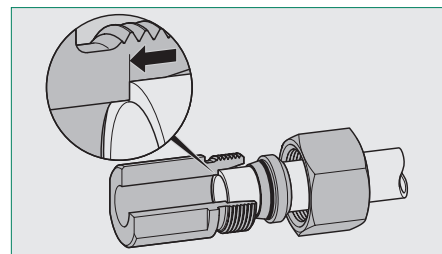
Lightly lubricate the 24° taper of the assembly stud as well as the two soft-sealing elements of the cutting ring (e.g. using mineral-oil based hydraulic fluid HLP32). Do not use lubricating grease!

Immediately proceed with the assembly in order to avoid exposure to contamination.



Consecutively put the union nut first and then the cutting ring onto the tube end.

Pay attention to the correct alignment of the cutting ring: The cutting edges have to face to the tube end.



Carefully insert the tube end into the 24° taper of the pre-assembly stud and push it firmly against the inner stop.

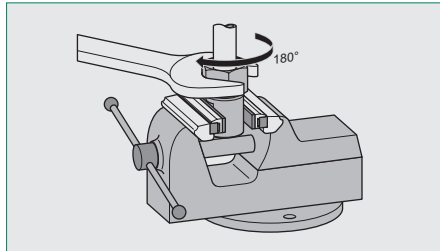
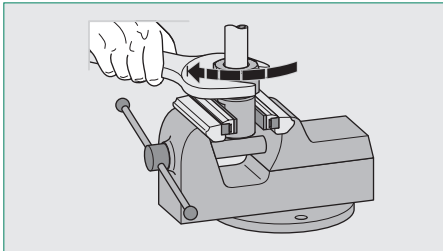
The tube must be held in this position during the entire assembly process in order to avoid faulty assembly.

Q



Assembly Instructions for STAUFF Connect 24° Tube Fittings with Soft-Sealing Cutting Ring (Type FI-WDDS) 50% Assembly with the Manual Pre-Assembly Stud (Type FI-VK) and Assembly with the Fitting Body

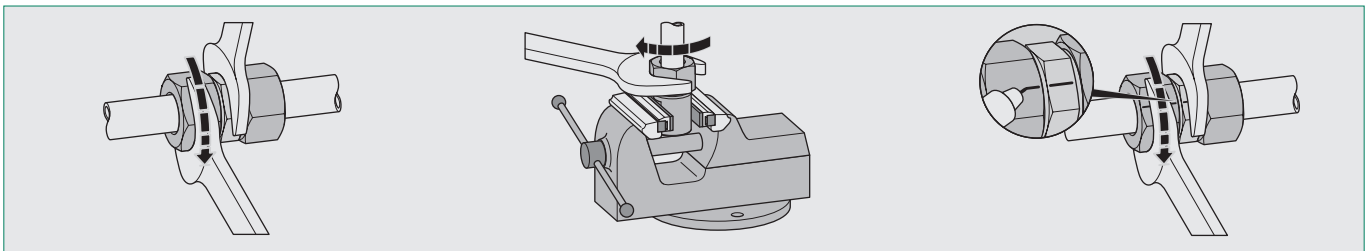
3. Assembly in the Assembly Stud



Tighten the union nut until the noticeable increase in force (pressure point). The cutting ring now grips the tube, which can no longer be rotated.

Use a suitable spanner to tighten the union nut another 1/2 a turn (180°) beyond the pressure point. In doing so, the cutting ring will uniformly cut into the tube.

4. Assembly with the Fitting Body



Lightly lubricate the soft-sealing element located on the 24° taper of the cutting ring (e.g. using mineral-oil based hydraulic fluid HLP32). Do not use lubricating grease!

Immediately proceed with the assembly in order to avoid exposure to contamination.

Carefully insert the assembled tube end into the 24° taper of the fitting body.

Use a suitable spanner to tighten the union nut until the point where the cutting ring comes into contact and sits closely with the face side of the fitting body, and pretension it.

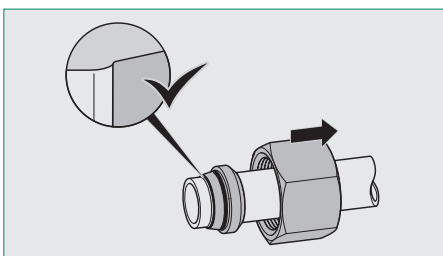
This point is characterised by a significant increase in force and typically situated 1/2 to 1 turns (180° to 360°) beyond the fixed point.

Always use a second spanner to hold the fitting body during the entire assembly procedure.

In case of unfavourable mounting conditions or larger tube dimensions, use a bench vice for the assembly.

A marking line applied on the union nut and the fitting body makes it easier to indicate the sufficient tightening angle.

5. Inspection



Fully untighten the union nut for a visual inspection after the assembly. A raise of tube material must be clearly visible in front of the cutting edge.

In this position, it is still permissible for the cutting ring to turn on the tube, but not to be displaced in axial direction of the tube.

Please note: If not enough tube material has been raised in front of the cutting edge or if the cutting ring is still capable of being displaced in axial direction, the assembly procedure must be repeated by using more force, and the result must be re-checked.

6. Repeated Assembly

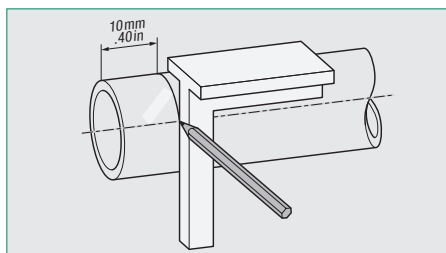
Check the soft-sealing element located on the 24° taper of the cutting ring for possible damages.

Use a suitable spanner to tighten the union nut until the point where the cutting ring comes into contact and sits closely with the face side of the fitting body, and pretension it. This point is characterised by a significant increase in force.

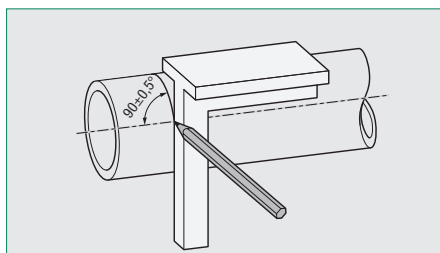


Assembly Instructions for STAUFF Connect 24° Tube Fittings with Soft-Sealing Cutting Ring (Type FI-WDDS) Direct Assembly with the Fitting Body

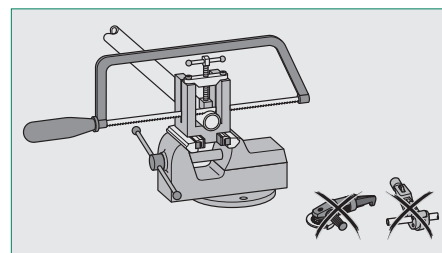
1. Tube Preparation



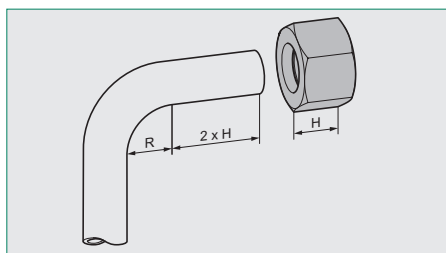
Saw off tube in right angle and at least 10 mm / .40 in from the cut made by the tube manufacturer / supplier in order to avoid failures caused during shipment.



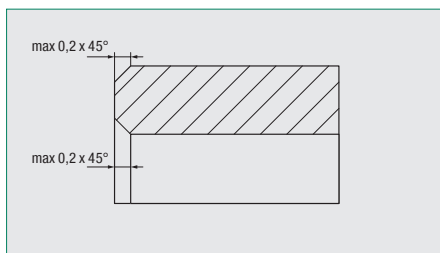
A maximum angular deviation / tolerance of $\pm 0,5^\circ$ relative to the tube axis is permissible.



Only use proper tube sawing machinery or equipment. Do not use tube cutters or grinders as this may result in unwanted angled cuts and cause severe burring.



For tube bends, the length of the straight section of the tube end to the start of the bending radius has to be twice the height of the union nut.

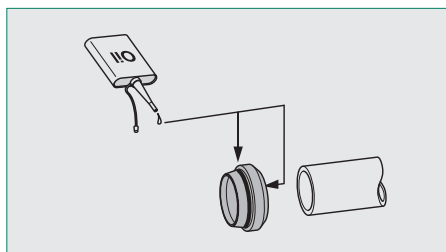


Slightly deburr inside and outside of the tube end (max 0,2 x 45°). The assembly area of the tube has to be free of contamination, chips and paint.



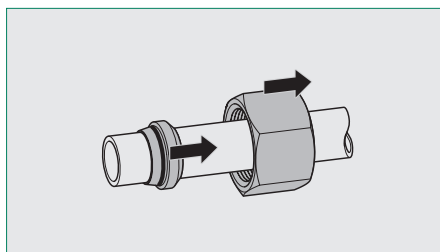
Please note: Improperly prepared and contaminated tubes will affect the service life of the connection and may result in leakage.

2. Assembly Preparation



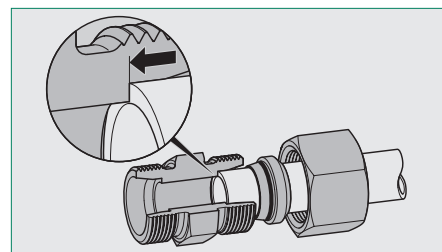
Lightly lubricate the two soft-sealing elements of the cutting ring (e.g. using mineral-oil based hydraulic fluid HLP32). Do not use lubricating grease!

Immediately proceed with the assembly in order to avoid exposure to contamination.



Consecutively put the union nut first and then the cutting ring onto the tube end.

Pay attention to the correct alignment of the cutting ring: The cutting edges have to face to the tube end.



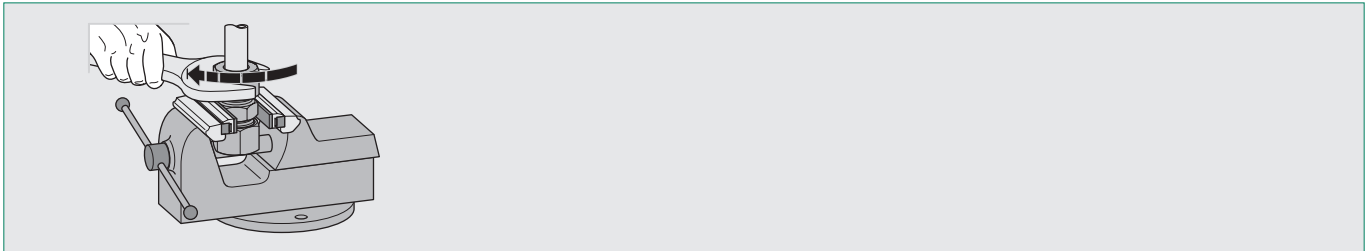
Carefully insert the tube end into the 24° taper of the fitting body and push it firmly against the inner stop.

The tube must be held in this position during the entire assembly process in order to avoid faulty assembly.



Assembly Instructions for STAUFF Connect 24° Tube Fittings with Soft-Sealing Cutting Ring (Type FI-WDDS) Direct Assembly with the Fitting Body

3. Assembly in the Fitting Body

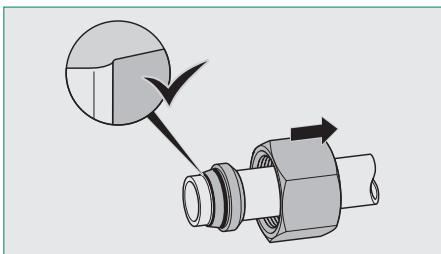


Use a suitable spanner to tighten the union nut until the point where the cutting ring comes into contact and sits closely with the face side of the fitting body, and pretension it.

This point is characterised by a significant increase in force and typically situated 1 to 1 1/2 turns (360° to 540°) beyond the pressure point.

At this point, the cutting ring starts gripping the tube, which can no longer be rotated.

4. Inspection



Fully untighten the union nut for a visual inspection after the assembly. A raise of tube material must be clearly visible in front of the cutting edge.

In this position, it is still permissible for the cutting ring to turn on the tube, but not to be displaced in axial direction of the tube.

Please note: If not enough tube material has been raised in front of the cutting edge or if the cutting ring is still capable of being displaced in axial direction, the assembly procedure must be repeated by using more force, and the result must be re-checked.

5. Repeated Assembly

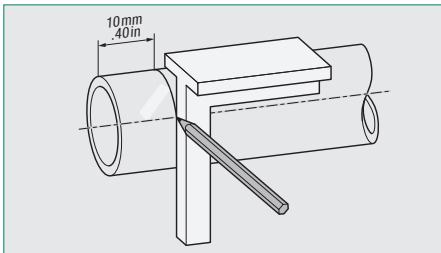
Check the soft-sealing element located on the 24° taper of the cutting ring for possible damages.

Use a suitable spanner to tighten the union nut until the point where the cutting ring comes into contact and sits closely with the face side of the fitting body, and pretension it. This point is characterised by a significant increase in force.

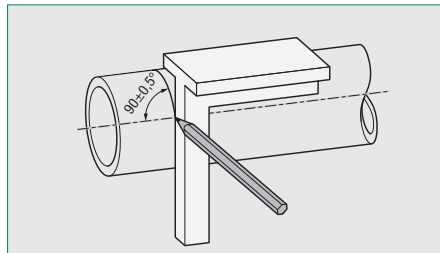
Assembly Instructions for STAUFF Connect 24° Tube Fittings with Soft-Sealing Cutting Ring (Type FI-WDDS)

Machine-Assisted 100% Assembly with a STAUFF Press Assembly Machine and Assembly with the Fitting Body

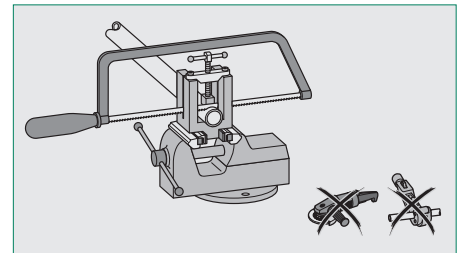
1. Tube Preparation



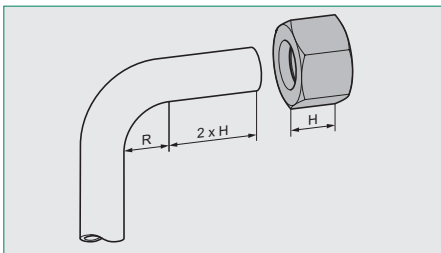
Saw off tube in right angle and at least 10 mm / .40 in from the cut made by the tube manufacturer / supplier in order to avoid failures caused during shipment.



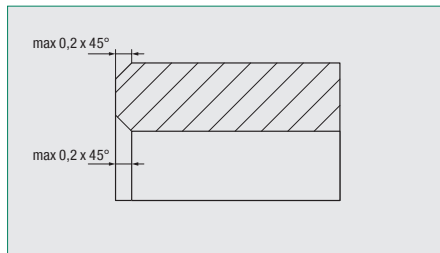
A maximum angular deviation / tolerance of $\pm 0,5^\circ$ relative to the tube axis is permissible.



Only use proper tube sawing machinery or equipment. Do not use tube cutters or grinders as this may result in unwanted angled cuts and cause severe burring.



For tube bends, the length of the straight section of the tube end to the start of the bending radius has to be twice the height of the union nut.



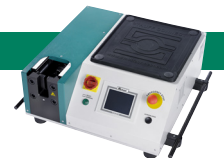
Slightly deburr inside and outside of the tube end (max 0,2 x 45°). The assembly area of the tube has to be free of contamination, chips and paint.



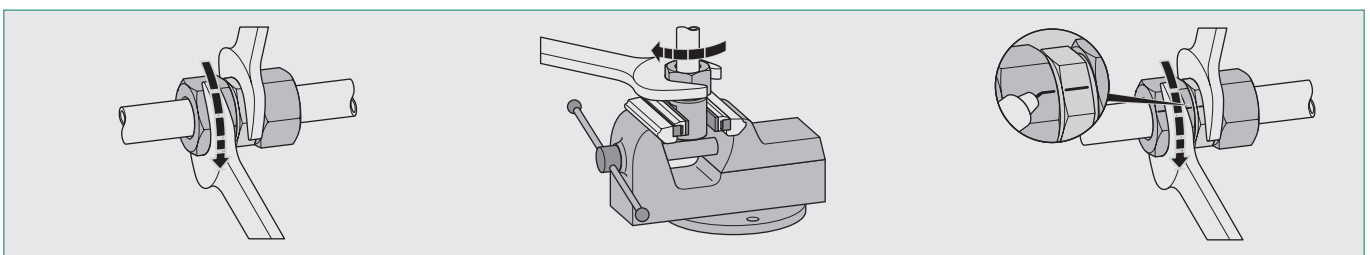
Please note: Improperly prepared and contaminated tubes will affect the service life of the connection and may result in leakage.

2. Assembly Preparation, Machine-Assisted Assembly and Inspection

With regards to assembly preparation, the actual assembly as well as the inspection of assembled tube ends, please follow the detailed instructions in the operating manual of the machine.



3. Assembly with the Fitting Body



Lightly lubricate the soft-sealing element located on the 24° taper of the cutting ring (e.g. using mineral-oil based hydraulic fluid HLP32). Do not use lubricating grease!

Immediately proceed with the assembly in order to avoid exposure to contamination.

Carefully insert the assembled tube end into the 24° taper of the fitting body.

Use a suitable spanner to tighten the union nut until the point where the cutting ring comes into contact and sits closely with the face side of the fitting body, and pretension it. This point is characterised by a significant increase in force.

Always use a second spanner to hold the fitting body during the entire assembly procedure.

In case of unfavourable mounting conditions or larger tube dimensions, use a bench vice for the assembly.

A marking line applied on the union nut and the fitting body makes it easier to indicate the sufficient tightening angle.

4. Repeated Assembly

Check the soft-sealing element located on the 24° taper of the cutting ring for possible damages.

Use a suitable spanner to tighten the union nut until the point where the cutting ring comes into contact and sits closely with the face side of the fitting body, and pretension it. This point is characterised by a significant increase in force.

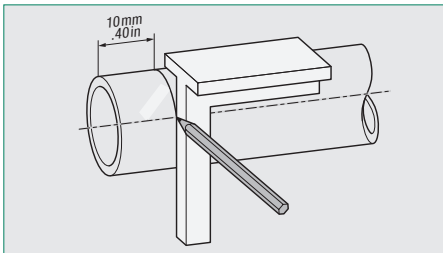
Q



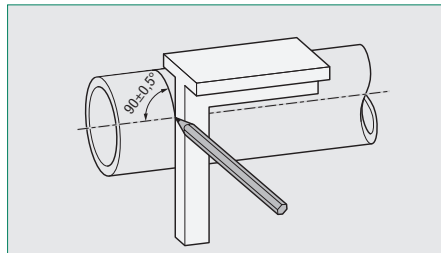
Assembly Instructions for STAUFF Connect 24° Tube Fittings with Soft-Sealing Cutting Ring (Type FI-WDDS)

Machine-Assisted 50% Assembly with a STAUFF Press Assembly Machine and Assembly with the Fitting Body

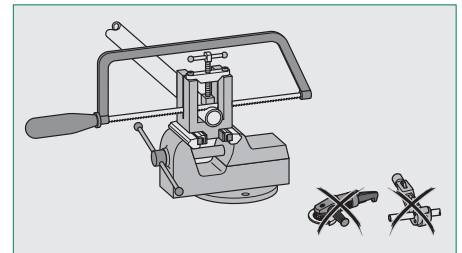
1. Tube Preparation



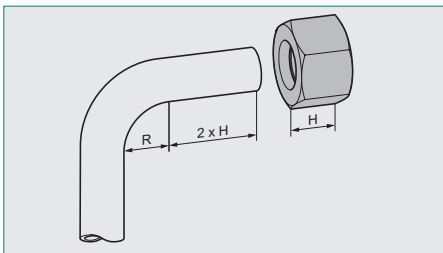
Saw off tube in right angle and at least 10 mm / .40 in from the cut made by the tube manufacturer / supplier in order to avoid failures caused during shipment.



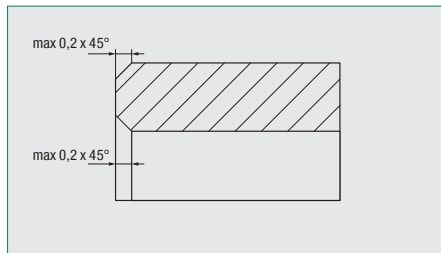
A maximum angular deviation / tolerance of $\pm 0,5^\circ$ relative to the tube axis is permissible.



Only use proper tube sawing machinery or equipment. Do not use tube cutters or grinders as this may result in unwanted angled cuts and cause severe burring.



For tube bends, the length of the straight section of the tube end to the start of the bending radius has to be twice the height of the union nut.



Slightly deburr inside and outside of the tube end (max 0,2 x 45°). The assembly area of the tube has to be free of contamination, chips and paint.



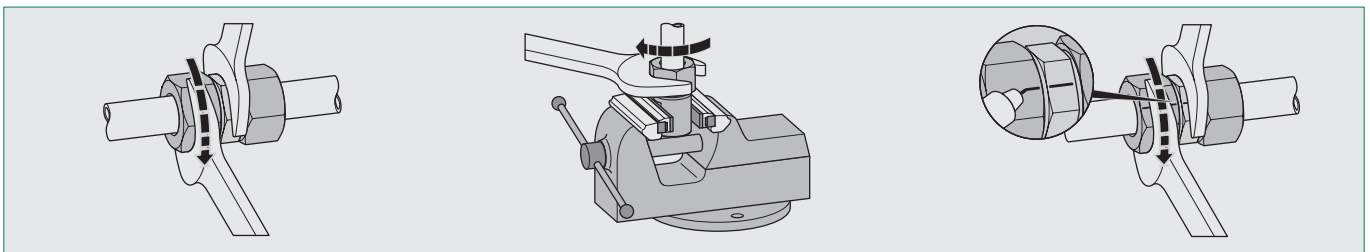
Please note: Improperly prepared and contaminated tubes will affect the service life of the connection and may result in leakage.

2. Assembly Preparation, Machine-Assisted Assembly and Inspection

With regards to assembly preparation, the actual assembly as well as the inspection of assembled tube ends, please follow the detailed instructions in the operating manual of the machine.



3. Assembly with the Fitting Body



Lightly lubricate the soft-sealing element located on the 24° taper of the cutting ring (e.g. using mineral-oil based hydraulic fluid HLP32). Do not use lubricating grease!

Immediately proceed with the assembly in order to avoid exposure to contamination.

Carefully insert the assembled tube end into the 24° taper of the fitting body.

Use a suitable spanner to tighten the union nut until the point where the cutting ring comes into contact and sits closely with the face side of the fitting body, and pretension it.

This point is characterised by a significant increase in force and typically situated 1/2 to 1 turns (180° to 360°) beyond the fixed point.

Always use a second spanner to hold the fitting body during the entire assembly procedure.

In case of unfavourable mounting conditions or larger tube dimensions, use a bench vice for the assembly.

A marking line applied on the union nut and the fitting body makes it easier to indicate the sufficient tightening angle.

4. Repeated Assembly

Check the soft-sealing element located on the 24° taper of the cutting ring for possible damages.

Use a suitable spanner to tighten the union nut until the point where the cutting ring comes into contact and sits closely with the face side of the fitting body, and pretension it. This point is characterised by a significant increase in force.



Assembly Instructions for Support Sleeves (Type FI-VH)

Selection Chart for Tubes made of Steel / Stainless Steel

| Series | Tube OD | | Tube Wall Thickness | | | | | | | | | | |
|--------|---------|------|---------------------|-----|------|-----|-----|-----|-----|-----|-----|-----|--|
| | (mm) | (in) | (mm) | 0,5 | 0,75 | 1,0 | 1,5 | 2,0 | 2,5 | 3,0 | 3,5 | 4,0 | |
| LL | 4 | .16 | | | | | | | | | | | |
| | 6 | .24 | ● | | | | | | | | | | |
| | 8 | .31 | ● | | | | | | | | | | |
| L | 6 | .24 | ● | ● | | | | | | | | | |
| | 8 | .31 | ● | ● | | | | | | | | | |
| | 10 | .39 | ● | ● | | | | | | | | | |
| | 12 | .47 | ● | ● | ○ | | | | | | | | |
| | 15 | .59 | ● | ● | ● | | | | | | | | |
| | 18 | .71 | ● | ● | ● | ○ | | | | | | | |
| | 22 | .87 | ● | ● | ● | ○ | ○ | | | | | | |
| | 28 | 1.10 | ● | ● | ● | ○ | ○ | ○ | | | | | |
| | 35 | 1.38 | ● | ● | ● | ● | ○ | ○ | ○ | | | | |
| | 42 | 1.65 | ● | ● | ● | ● | ○ | ○ | ○ | | | | |
| S | 6 | .24 | ● | ● | | | | | | | | | |
| | 8 | .31 | ● | ● | | | | | | | | | |
| | 10 | .39 | ● | ● | | | | | | | | | |
| | 12 | .47 | ● | ● | ○ | | | | | | | | |
| | 14 | .55 | ● | ● | ● | | | | | | | | |
| | 16 | .63 | ● | ● | ● | ○ | | | | | | | |
| | 20 | .79 | ● | ● | ● | ● | ○ | | | | | | |
| | 25 | .98 | ● | ● | ● | ● | ○ | | | | | | |
| | 30 | 1.18 | ● | ● | ● | ● | ● | ○ | | | | | |
| | 38 | 1.50 | ● | ● | ● | ● | ● | ● | ○ | ○ | | | |

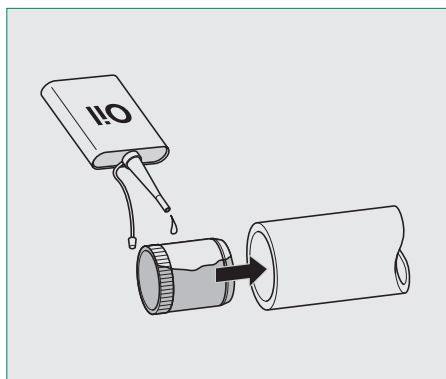
Selection Chart for Tubes made of Non-Ferrous Metals

| Series | Tube OD | | Tube Wall Thickness | | | | | | | | | | |
|--------|---------|------|---------------------|-----|------|-----|-----|-----|-----|-----|-----|-----|--|
| | (mm) | (in) | (mm) | 0,5 | 0,75 | 1,0 | 1,5 | 2,0 | 2,5 | 3,0 | 3,5 | 4,0 | |
| LL | 4 | .16 | | | | | | | | | | | |
| | 6 | .24 | ● | ● | | | | | | | | | |
| | 8 | .31 | ● | ● | | | | | | | | | |
| L | 6 | .24 | ● | ● | ● | | | | | | | | |
| | 8 | .31 | ● | ● | ● | | | | | | | | |
| | 10 | .39 | ● | ● | ● | ○ | | | | | | | |
| | 12 | .47 | ● | ● | ● | ● | | | | | | | |
| | 15 | .59 | ● | ● | ● | ● | | | | | | | |
| | 18 | .71 | ● | ● | ● | ● | ● | | | | | | |
| | 22 | .87 | ● | ● | ● | ● | ● | ● | | | | | |
| | 28 | 1.10 | ● | ● | ● | ● | ● | ● | ● | | | | |
| | 35 | 1.38 | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | 42 | 1.65 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| S | 6 | .24 | ● | ● | ● | | | | | | | | |
| | 8 | .31 | ● | ● | ● | | | | | | | | |
| | 10 | .39 | ● | ● | ● | | | | | | | | |
| | 12 | .47 | ● | ● | ● | | | | | | | | |
| | 14 | .55 | ● | ● | ● | ● | | | | | | | |
| | 16 | .63 | ● | ● | ● | ● | ● | | | | | | |
| | 20 | .79 | ● | ● | ● | ● | ● | ● | | | | | |
| | 25 | .98 | ● | ● | ● | ● | ● | ● | ● | | | | |
| | 30 | 1.18 | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | 38 | 1.50 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |

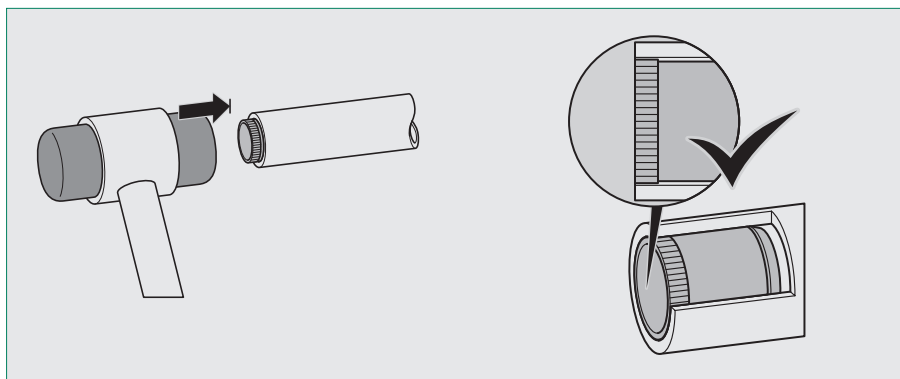
● Generally required ○ Highly recommended, especially for adverse operating conditions (vibrations, risks of self-loosening of fittings etc.)

Support sleeves are generally required for use with tubes made of plastics.

Assembly



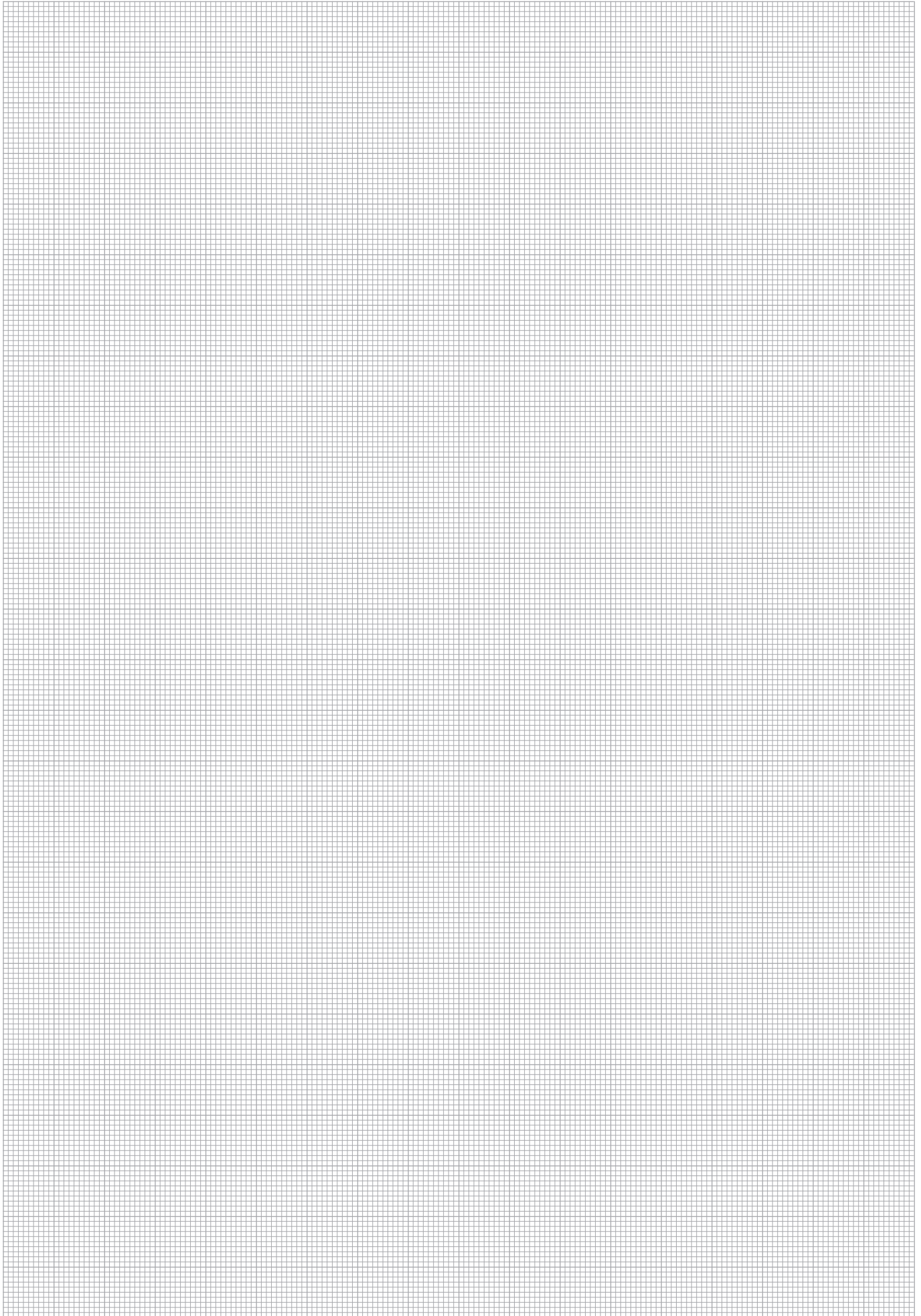
Lubricate the outside of the support sleeve (e.g. using mineral-oil based hydraulic fluid HLP32) and insert it into the tube end up to the knurled section.



Use a hammer (plastic or rubber) to fully drive the support sleeve into the tube end, so that the knurled section is pressed against the inner wall of the tube and the sleeve is firmly flush with the tube end.

In doing so, the support sleeve is prevented from subsequent turning, sliding and falling out.





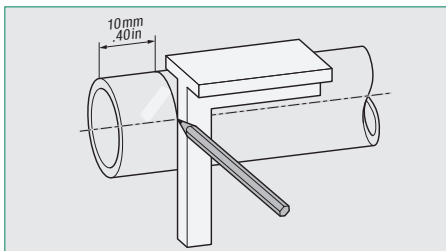
Q



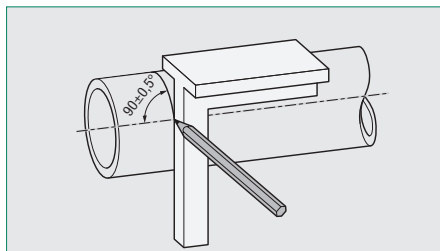
Assembly Instructions for STAUFF Form Tube Fittings

Tube End Forming with a STAUFF Form Machine and Assembly with the Fitting Body

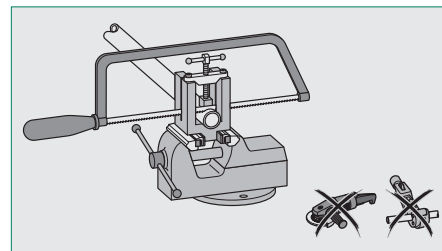
1. Tube Preparation



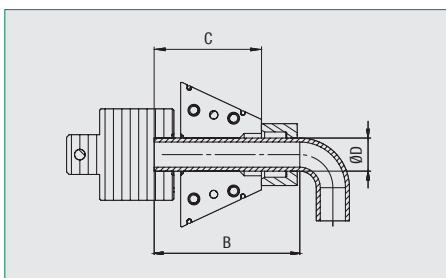
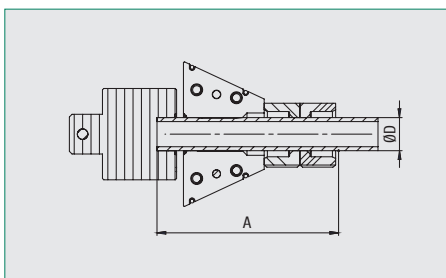
Saw off tube in right angle and at least 10 mm / .40 in from the cut made by the tube manufacturer / supplier in order to avoid failures caused during shipment.



A maximum angular deviation / tolerance of $\pm 0,5^\circ$ relative to the tube axis is permissible.

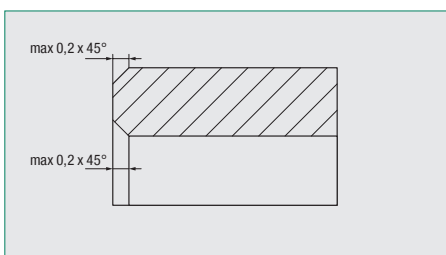


Only use proper tube sawing machinery or equipment. Do not use tube cutters or grinders as this may result in unwanted angled cuts and cause severe burring.



| Series | Tube OD | | Minimum Length A | | Minimum Length B | | Insertion Depth C | |
|--------|---------|------|--------------------|------|--------------------------------------|-------|-------------------|------|
| | (mm) | (in) | Straight Tube Ends | | Straight Sections next to Tube Bends | | (mm) | (in) |
| L | 6 | .24 | 109 | 4.29 | 94 | 3.70 | 79,5 | 3.13 |
| | 8 | .31 | 107 | 4.21 | 92 | 3.62 | 77,5 | 3.05 |
| | 10 | .39 | 111 | 4.37 | 95 | 3.74 | 79,5 | 3.13 |
| | 12 | .47 | 110 | 4.33 | 94 | 3.70 | 78,5 | 3.09 |
| | 15 | .59 | 113 | 4.45 | 96 | 3.78 | 79 | 3.11 |
| | 18 | .71 | 114 | 4.48 | 96 | 3.78 | 78 | 3.07 |
| | 22 | .87 | 120 | 4.72 | 100 | 3.94 | 80 | 3.15 |
| | 28 | 1.10 | 123 | 4.84 | 101 | 3.98 | 79 | 3.11 |
| S | 35 | 1.38 | 143 | 5.63 | 118 | 4.65 | 93 | 3.66 |
| | 42 | 1.65 | 144 | 5.67 | 119 | 4.69 | 94 | 3.70 |
| | 6 | .24 | 113 | 4.45 | 96 | 3.78 | 79,5 | 3.13 |
| | 8 | .31 | 111 | 4.37 | 94 | 3.70 | 77,5 | 3.05 |
| | 10 | .39 | 115 | 4.53 | 97 | 3.82 | 79,5 | 3.13 |
| | 12 | .47 | 114 | 4.49 | 96 | 3.78 | 78,5 | 3.09 |
| | 16 | .63 | 120 | 4.72 | 99 | 3.90 | 78,5 | 3.09 |
| | 20 | .79 | 130 | 5.12 | 106 | 4.17 | 82 | 3.23 |
| | 25 | .98 | 147 | 5.79 | 120 | 4.72 | 93 | 3.66 |
| | 30 | 1.18 | 155 | 6.10 | 126 | 4.96 | 97 | 3.82 |
| 38 | 1.50 | 168 | 6.61 | 135 | 5.31 | 102,5 | 4.04 | |

Please note the minimum lengths for straight tube ends (dimension A) as well as for straight tube sections next to tube bends (dimension B) that are listed in the table.



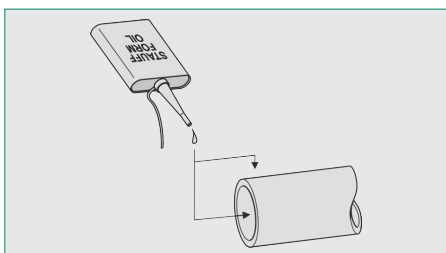
Slightly deburr inside and outside of the tube end (max 0,2 x 45°). The assembly area of the tube has to be free of contamination, chips and paint.



Please note: Improperly prepared and contaminated tubes will affect the service life of the connection and may result in leakage.



2. Preparation and Machine-Assisted Tube Forming



Lightly lubricate the inside and outside of the tube end (e.g. with a thin film of mineral-oil based hydraulic fluid HLP32) before starting the machine-assisted tube forming process. Do not use lubricating grease!

If the lubricant film on the outside of the tube end is too thick, fluid will be trapped between the forming tool and the tube end, thus resulting in inaccurate contours.

Immediately proceed with the assembly in order to avoid exposure to contamination.

With regards to the actual tube forming process, please follow the detailed instructions in the operating manual of the machine.

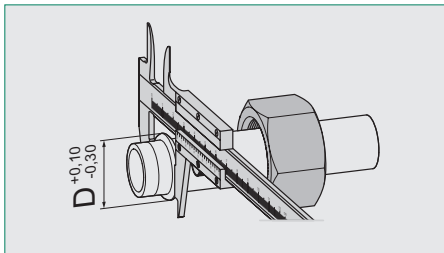
Important: For tube ends made of stainless steel, always and only use original STAUFF Form Oil (type SFO-FO-1L). The use of any other fluid is not allowed and may result in damage of the assembly tools.



Assembly Instructions for STAUFF Form Tube Fittings

Tube End Forming with a STAUFF Form Machine and Assembly with the Fitting Body

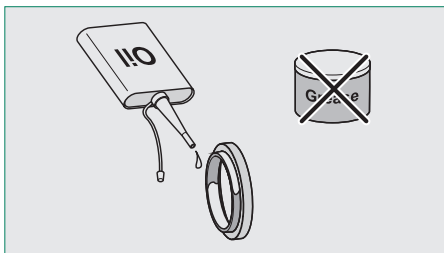
3. Inspection



Use a suitable measuring device (caliper gauge) to check control diameter D of the formed tube end based on the dimension table on the right.

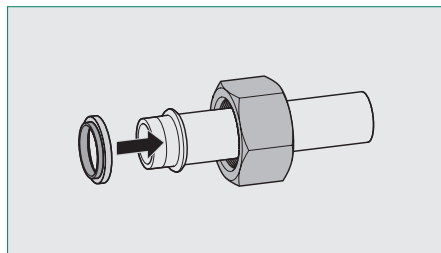
| Series | Tube OD | | Dimensions D | | |
|--------|---------|------|--------------|------|-----|
| | (mm) | (in) | (mm) | (in) | |
| L | 6 | .24 | 10,1 | .40 | |
| | 8 | .31 | 12,1 | .48 | |
| | 10 | .39 | 14,0 | .55 | |
| | 12 | .47 | 16,1 | .63 | |
| | 15 | .59 | 20,1 | .79 | |
| | 18 | .71 | 23,7 | .93 | |
| | 22 | .87 | 27,1 | 1.07 | |
| | 28 | 1.10 | 33,1 | 1.30 | |
| | 35 | 1.38 | 42,1 | 1.66 | |
| | 42 | 1.65 | 49,4 | 1.94 | |
| | S | 6 | .24 | 10,1 | .40 |
| | | 8 | .31 | 12,1 | .48 |
| 10 | | .39 | 14,0 | .55 | |
| 12 | | .47 | 16,1 | .63 | |
| 16 | | .63 | 21,7 | .85 | |
| 20 | | .79 | 26,1 | 1.03 | |
| 25 | | .98 | 31,1 | 1.22 | |
| 30 | | 1.18 | 37,1 | 1.46 | |
| 38 | | 1.50 | 46,9 | 1.85 | |

4. Assembly with the Fitting Body

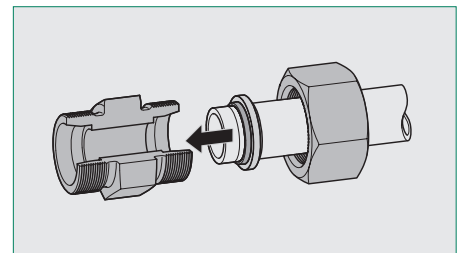


Lightly lubricate the inside and outside of the sealing element of the form ring (e.g. using mineral-oil based hydraulic fluid HLP32). Do not use lubricating grease!

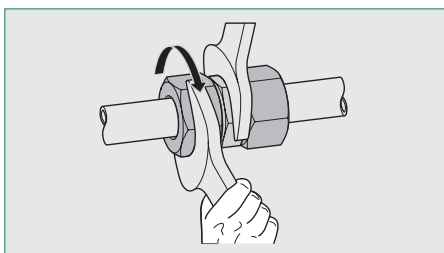
Immediately proceed with the assembly in order to avoid exposure to contamination.



Slide the form ring onto the formed tube end (with the sealing element of the form ring facing to the tube end).

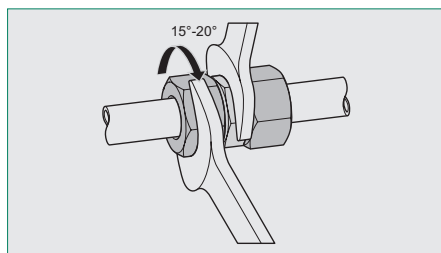


Carefully insert the formed tube end with the assembled form ring into the 24° taper of the fitting body.



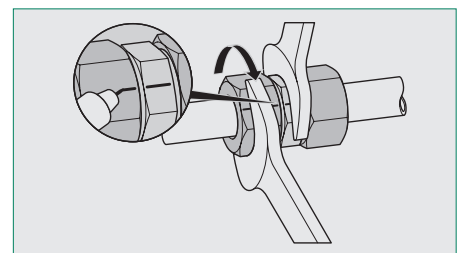
Use a suitable spanner to tighten the nut until there is a noticeable increase in force required (fixed point).

Avoid over-tightening by gripping the spanner close to the union nut.



Finish the assembly by using a suitable spanner to tighten the union nut approximately 15-20° beyond the fixed point.

Always use a second spanner to hold the fitting body during the entire assembly procedure.



A marking line applied on the union nut and the fitting body makes it easier to indicate the sufficient tightening angle.

5. Repeated Assembly

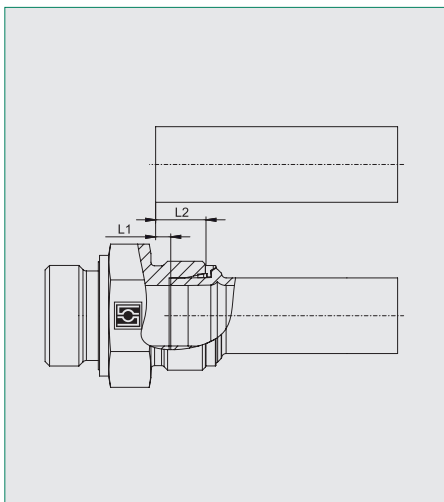
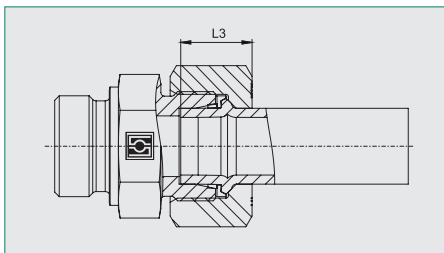
For repeated assemblies, please follow the instructions from point 4 on.



Assembly Instructions for STAUFF Form Tube Fittings

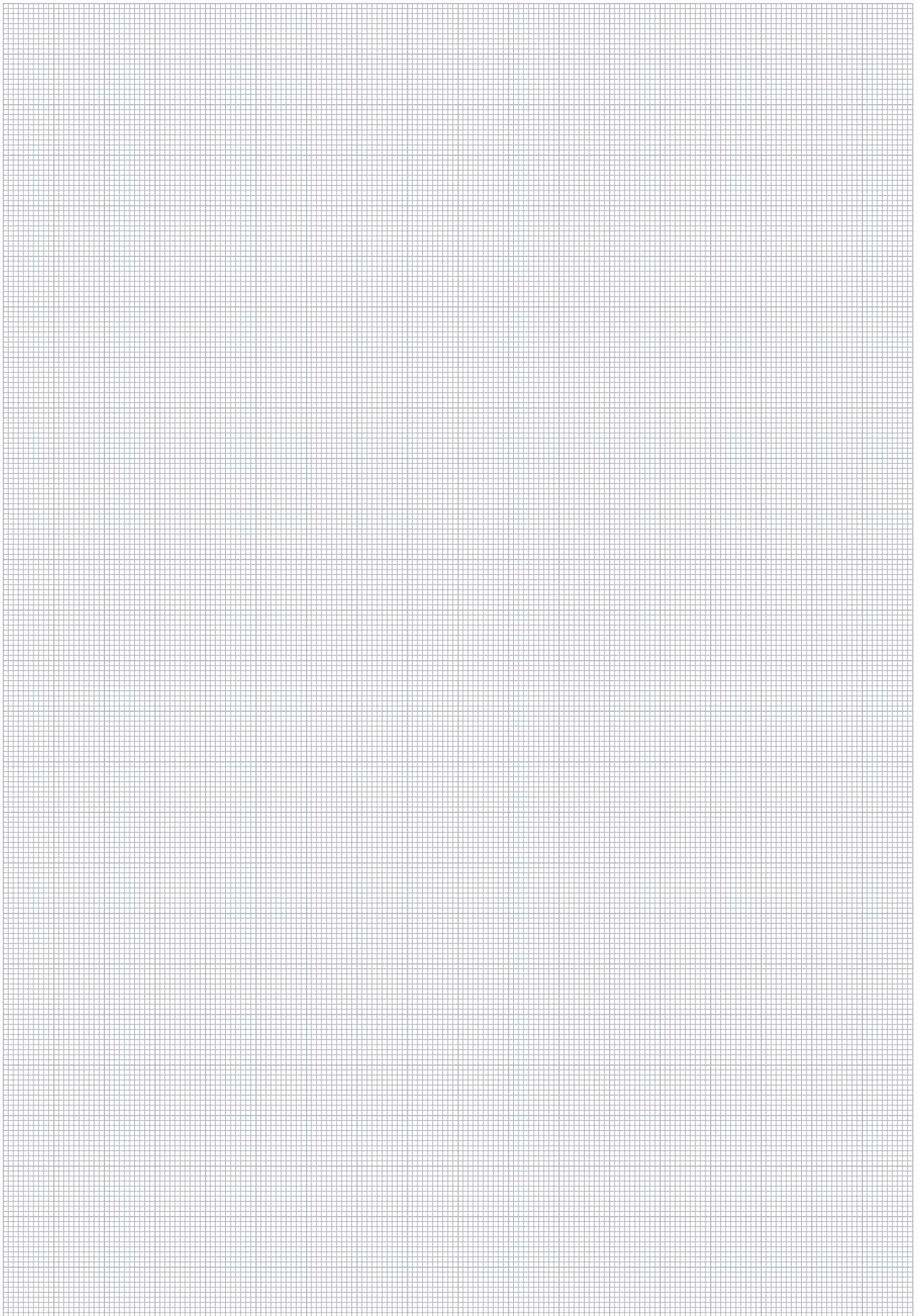
Tube End Forming with a STAUFF Form Machine and Assembly with the Fitting Body

Calculation Dimensions



| Tube OD | | Tube Wall Thickness | | L1 | | L2 | | L3 | |
|---------|------|---------------------|------|------|------|------|------|------------|-----------|
| (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) |
| 6 | .24 | 1,5 | .06 | 6,9 | .27 | 13,5 | .53 | 14,6 (L+S) | .57 (L+S) |
| | | 1,5 | .06 | 6,0 | .24 | 12,6 | .50 | | |
| 8 | .31 | 2,0 | .08 | 5,2 | .20 | 11,8 | .46 | 14,6 (L+S) | .57 (L+S) |
| | | 1,5 | .06 | 5,5 | .22 | 12,1 | .48 | | |
| 10 | .39 | 2,0 | .08 | 4,1 | .16 | 10,7 | .42 | 15,1 (L) | .59 (L) |
| | | 2,5 | .10 | 4,8 | .19 | 11,4 | .45 | 16,1 (S) | .63 (S) |
| | | 3,0 | .12 | 4,2 | .17 | 10,8 | .43 | | |
| | | 1,5 | .06 | 4,9 | .19 | 11,5 | .45 | | |
| 12 | .47 | 2,0 | .08 | 4,6 | .18 | 11,2 | .44 | 15,3 (L) | .60 (L) |
| | | 2,5 | .10 | 4,4 | .17 | 11,0 | .43 | 16,3 (S) | .64 (S) |
| | | 3,0 | .12 | 4,3 | .17 | 10,9 | .43 | | |
| | | 1,5 | .06 | 6,3 | .25 | 12,9 | .51 | | |
| 15 | .59 | 2,0 | .08 | 5,8 | .23 | 12,4 | .49 | 15,6 | .61 |
| | | 2,5 | .10 | 5,4 | .21 | 12,0 | .47 | | |
| | | 2,0 | .08 | 6,6 | .26 | 14,6 | .57 | | |
| 16 | .63 | 2,5 | .10 | 6,0 | .24 | 14,0 | .55 | 18,4 | .72 |
| | | 3,0 | .12 | 6,0 | .24 | 14,0 | .55 | | |
| | | 4,0 | .16 | 6,0 | .24 | 14,0 | .55 | | |
| | | 2,0 | .08 | 6,1 | .24 | 13,0 | .51 | | |
| 18 | .71 | 2,5 | .10 | 6,2 | .24 | 13,1 | .52 | 16,3 | .64 |
| | | 3,0 | .12 | 6,2 | .24 | 13,1 | .52 | | |
| | | 2,0 | .08 | 4,5 | .18 | 14,5 | .57 | | |
| 20 | .79 | 2,5 | .10 | 7,2 | .28 | 17,2 | .68 | 21,1 | .83 |
| | | 3,0 | .12 | 6,8 | .27 | 16,8 | .66 | | |
| | | 4,0 | .16 | 7,0 | .28 | 17,0 | .67 | | |
| | | 2,0 | .08 | 6,4 | .25 | 13,4 | .53 | | |
| 22 | .87 | 2,5 | .10 | 6,0 | .24 | 13,0 | .51 | 17,5 | .69 |
| | | 3,0 | .12 | 5,5 | .22 | 12,5 | .49 | | |
| | | 3,5 | .14 | 6,1 | .24 | 13,1 | .52 | | |
| | | 2,0 | .08 | 6,1 | .24 | 17,6 | .69 | | |
| 25 | .98 | 2,5 | .10 | 7,0 | .28 | 18,5 | .73 | 23,5 | .93 |
| | | 3,0 | .12 | 7,1 | .28 | 18,6 | .73 | | |
| | | 3,5 | .14 | 6,3 | .25 | 17,8 | .70 | | |
| | | 4,0 | .16 | 7,5 | .30 | 19,0 | .75 | | |
| | | 5,0 | .20 | 7,1 | .28 | 18,6 | .73 | | |
| 28 | 1.10 | 2,0 | .08 | 5,0 | .20 | 12,0 | .47 | | |
| | | 2,5 | .10 | 5,6 | .22 | 12,6 | .50 | 17,9 | .70 |
| | | 3,0 | .12 | 6,0 | .24 | 13,0 | .51 | | |
| | | 3,5 | .14 | 5,0 | .20 | 12,0 | .47 | | |
| | | 4,0 | .16 | 5,0 | .20 | 12,0 | .47 | | |
| 30 | 1.18 | 2,5 | .10 | 7,5 | .30 | 20,5 | .81 | | |
| | | 3,0 | .12 | 8,5 | .33 | 21,5 | .85 | 27,8 | 1.09 |
| | | 4,0 | .16 | 8,6 | .34 | 21,6 | .85 | | |
| | | 5,0 | .20 | 8,5 | .33 | 21,5 | .85 | | |
| | | 6,0 | .24 | 8,8 | .35 | 21,8 | .86 | | |
| 35 | 1.38 | 2,5 | .10 | 8,0 | .31 | 20,8 | .82 | | |
| | | 3,0 | .12 | 8,0 | .31 | 20,8 | .82 | 22,6 | .89 |
| | | 4,0 | .16 | 9,0 | .35 | 21,8 | .86 | | |
| | | 5,0 | .20 | 9,5 | .37 | 22,3 | .88 | | |
| 38 | 1.50 | 3,0 | .12 | 10,0 | .39 | 25,5 | 1.00 | | |
| | | 4,0 | .16 | 10,5 | .41 | 26,0 | 1.02 | 31,6 | 1.24 |
| | | 5,0 | .20 | 11,5 | .45 | 27,0 | 1.06 | | |
| | | 6,0 | .24 | 11 | .43 | 26,5 | 1.04 | | |
| 42 | 1.65 | 3,0 | .12 | 8,4 | .33 | 18,9 | .74 | | |
| | | 3,5 | .14 | 8,8 | .35 | 19,3 | .76 | 23,2 | .91 |
| | | 4,0 | .16 | 7,0 | .28 | 17,5 | .69 | | |





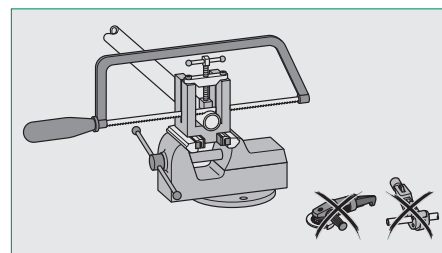
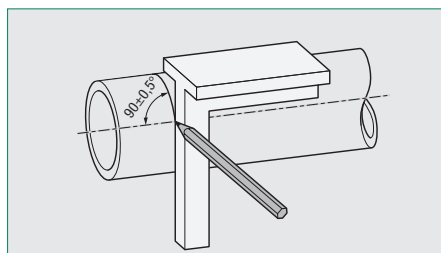
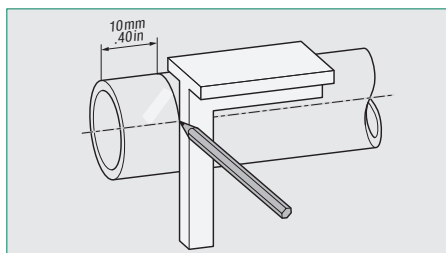
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Assembly Instructions for STAUFF Connect 37° Flared Tube Fittings

Tube Flaring with a STAUFF Press Machine and Assembly with the Fitting Body

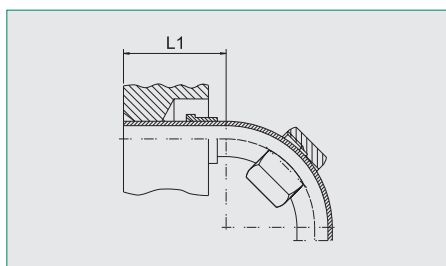
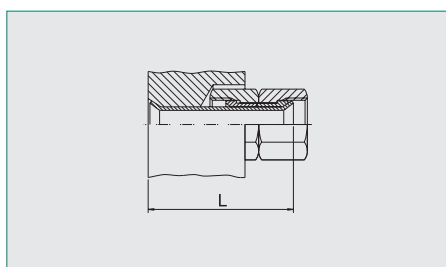
1. Tube Preparation



Saw off tube in right angle and at least 10 mm / .40 in from the cut made by the tube manufacturer / supplier in order to avoid failures caused during shipment.

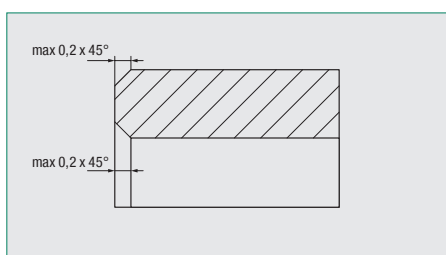
A maximum angular deviation / tolerance of $\pm 0,5^\circ$ relative to the tube axis is permissible.

Only use proper tube sawing machinery or equipment. Do not use tube cutters or grinders as this may result in unwanted angled cuts and cause severe burring.



| Series | Tube OD | | Minimum Length L Straight Tube Sections | | Minimum Length L1 Straight Tube Sections next to Tube Bends | |
|--------|---------|------|--|------|--|------|
| | (mm) | (in) | (mm) | (in) | (mm) | (in) |
| L | 6 | .24 | 59 | 2.32 | 43 | 1.69 |
| | 8 | .31 | 62 | 2.44 | 44 | 1.73 |
| | 10 | .39 | 64 | 2.52 | 46 | 1.81 |
| | 12 | .47 | 67 | 2.64 | 47 | 1.85 |
| | 15 | .59 | 75 | 2.95 | 50 | 1.97 |
| | 18 | .71 | 76 | 2.99 | 58 | 2.28 |
| | 22 | .87 | 81 | 3.19 | 60 | 2.36 |
| | 28 | 1.10 | 88 | 3.46 | 60 | 2.36 |
| | 35 | 1.38 | 92 | 3.62 | 62 | 2.44 |
| | 42 | 1.65 | 130 | 5.12 | 70 | 2.76 |
| S | 6 | .24 | 61 | 2.40 | 43 | 1.69 |
| | 8 | .31 | 64 | 2.52 | 44 | 1.73 |
| | 10 | .39 | 66 | 2.60 | 46 | 1.81 |
| | 12 | .47 | 68 | 2.68 | 47 | 1.85 |
| | 16 | .63 | 79 | 3.11 | 52 | 2.05 |
| | 20 | .79 | 82 | 3.23 | 58 | 2.28 |
| | 25 | .98 | 94 | 3.70 | 60 | 2.36 |
| | 30 | 1.18 | 96 | 3.78 | 62 | 2.44 |
| 38 | 1.50 | 136 | 5.35 | 70 | 2.76 | |

Please note the minimum lengths for straight tube ends (dimension L) as well as for straight tube sections next to tube bends (dimension L1) that are listed in the table. If installation situations demand that the length of straight tube sections next to tube bends (dimension L1) has to be shorter than indicated in the table, tube bending has to be carried out after flaring.



Slightly deburr inside and outside of the tube end (max 0,2 x 45°). The assembly area of the tube has to be free of contamination, chips and paint.

Please note: Improperly prepared and contaminated tubes will affect the service life of the connection and may result in leakage.

2. Preparation and Machine-Assisted Tube Flaring

With regards to assembly preparation as well as the actual tube flaring process, please follow the detailed instructions in the operating manual of the machine.

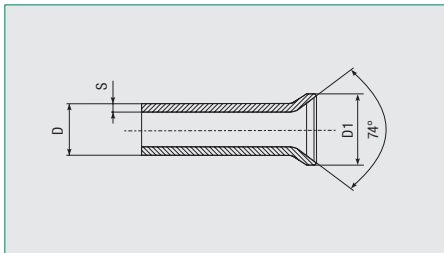
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Assembly Instructions for STAUFF Connect 37° Flared Tube Fittings

Tube Flaring with a STAUFF Press Machine and Assembly with the Fitting Body

3. Inspection



Check the flared tube end for cracking and impurities after flaring.

Always verify the dimensional accuracy of the flare.

The checking diameter corresponds to the outside diameter D1 of the flared tube end (according to dimension table on the right). The flare must be at right angle to the tube axis and concentric with the tube.

Please note: If the flare is eccentric, too short or not wide enough, perfect function of the tube fitting cannot be guaranteed!

4. Assembly with the Fitting Body

Lubricate the o-rings of the 24°/37° flared tube adaptor (e.g. using mineral-oil based hydraulic fluid HLP32) and carefully insert it into the 24° taper of the fitting body.

It is recommended to use a bench vice to press and permanently capture the 24°/37° flared tube adaptor into the 24° taper of the tube fitting – a great help to the tube fitter during re-assembly. In this case, please make sure that all components are suitably protected against damage.

Apply the flared tube end to the 24°/37° flared tube adaptor, which is attached to the fitting body, tighten the union nut until the noticeable increase in force, and then finish the assembly with another approximately 1/2 a turn (180°) beyond this point.

Important: Always use a spanner to hold the fitting body during the assembly procedure.

| Tube OD | | Dimensions | | D1 _{min} | | D1 _{max} | |
|---------|------|------------|------|-------------------|------|-------------------|------|
| D (mm) | (in) | S (mm) | (in) | (mm) | (in) | (mm) | (in) |
| 6 | .24 | 1 | .04 | 9,1 | .36 | 10 | .39 |
| | | 1,5 | .06 | | | | |
| 8 | .31 | 1 | .04 | 11,3 | .44 | 12 | .47 |
| | | 1,5 | .06 | | | | |
| | | 2 | .08 | | | | |
| 10 | .39 | 1 | .04 | 13,1 | .52 | 14 | .55 |
| | | 1,5 | .06 | | | | |
| | | 2 | .08 | | | | |
| 12 | .47 | 1 | .04 | 15,3 | .60 | 16 | .63 |
| | | 1,5 | .06 | | | | |
| | | 2 | .08 | | | | |
| 14 | .55 | 1,5 | .06 | 18,6 | .73 | 19,6 | .77 |
| | | 2 | .08 | | | | |
| | | 2,5 | .10 | | | | |
| | | 3 | .12 | | | | |
| 15 | .59 | 1,5 | .06 | 19,1 | .75 | 20 | .79 |
| | | 2 | .08 | | | | |
| | | 2,5 | .10 | | | | |
| 16 | .63 | 1,5 | .06 | 20,6 | .81 | 22 | .87 |
| | | 2 | .08 | | | | |
| | | 2,5 | .10 | | | | |
| | | 3 | .12 | | | | |
| 18 | .71 | 1,5 | .06 | 23,2 | .91 | 24 | .94 |
| | | 2 | .08 | | | | |
| | | 2,5 | .10 | | | | |
| 20 | .79 | 2 | .08 | 25,6 | 1.01 | 26,8 | 1.06 |
| | | 2,5 | .10 | | | | |
| | | 3 | .12 | | | | |
| | | 3,5 | .14 | | | | |
| 22 | .87 | 1,5 | .06 | 26,5 | 1.04 | 27,5 | 1.08 |
| | | 2 | .08 | | | | |
| | | 2,5 | .10 | | | | |
| | | 3 | .12 | | | | |
| 25 | .98 | 2 | .08 | 31,1 | 1.22 | 33 | 1.30 |
| | | 2,5 | .10 | | | | |
| | | 3 | .12 | | | | |
| | | 4 | .16 | | | | |
| 28 | 1.10 | 2 | .08 | 32,7 | 1.29 | 33,3 | 1.31 |
| | | 2,5 | .10 | | | | |
| | | 3 | .12 | | | | |
| 30 | 1.18 | 2 | .08 | 37 | 1.46 | 38,7 | 1.52 |
| | | 2,5 | .10 | | | | |
| | | 3 | .12 | | | | |
| | | 4 | .16 | | | | |
| | | 5 | .20 | | | | |
| 35 | 1.38 | 2 | .08 | 41,8 | 1.65 | 42,7 | 1.68 |
| | | 2,5 | .10 | | | | |
| | | 3 | .12 | | | | |
| | | 4 | .16 | | | | |
| 38 | 1.50 | 2,5 | .10 | 46 | 1.81 | 47,2 | 1.86 |
| | | 3 | .12 | | | | |
| | | 4 | .16 | | | | |
| | | 5 | .20 | | | | |
| | | 2 | .08 | | | | |
| 42 | 1.65 | 2 | .08 | 48,8 | 1.92 | 49,8 | 1.96 |
| | | 3 | .12 | | | | |
| | | 4 | .16 | | | | |

5. Repeated Assembly

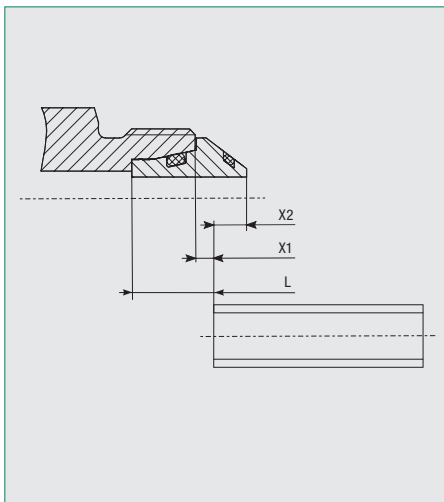
For repeated assembly, the union nut has to be tightened using exactly the same force as for the original assembly.



Assembly Instructions for STAUFF Connect 37° Flared Tube Fittings

Tube Flaring with a STAUFF Press Machine and Assembly with the Fitting Body

Calculation Dimensions



The correct tube length can be determined by measuring the distance between the 24°/37° flared tube adaptors pressed into the fitting bodies. Dimension X2 has then to be added for each of the connections.

The correct tube length can also be determined by measuring the distance between the fitting bodies. Dimension X1 has then to be subtracted for each of the connections.

Dimension L corresponds to the difference in tube length compared to cutting ring fittings. When changing over from cutting ring fittings to flared tube fittings, the tube has to be shortened by dimension L.

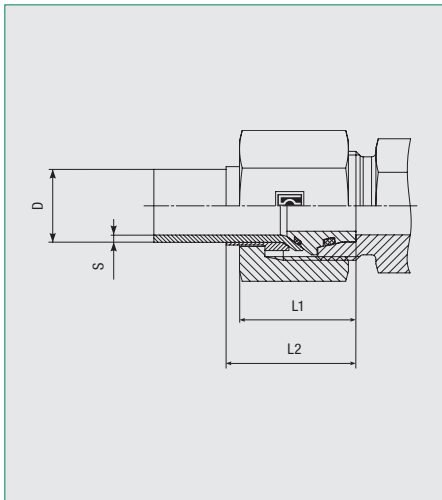
| Tube OD | | Dimensions | | | | | |
|---------|------|------------|------|------|------|------|------|
| D (mm) | (in) | X1 | | X2 | | L | |
| | | (mm) | (in) | (mm) | (in) | (mm) | (in) |
| 6 | .24 | 1 | .04 | 3,5 | .14 | 8 | .31 |
| | | 2 | .08 | 2,5 | .10 | 9 | .35 |
| 8 | .31 | 1 | .04 | 4 | .16 | 8 | .31 |
| | | 2 | .08 | 3 | .12 | 9 | .35 |
| | | 2,5 | .10 | 2,5 | .10 | 9,5 | .37 |
| 10 | .39 | 1 | .04 | 4,5 | .18 | 8 | .31 |
| | | 2 | .08 | 3,5 | .14 | 9 | .35 |
| | | 3 | .12 | 2,5 | .10 | 10 | .39 |
| 12 | .47 | 1 | .04 | 4,5 | .18 | 8 | .31 |
| | | 2 | .08 | 3,5 | .14 | 9 | .35 |
| | | 3 | .12 | 2,5 | .10 | 10 | .39 |
| 14 | .55 | 0,5 | .02 | 5,5 | .22 | 8,5 | .33 |
| | | 1 | .04 | 5 | .20 | 9 | .35 |
| | | 2 | .08 | 4 | .16 | 10 | .39 |
| | | 3 | .12 | 3 | .12 | 11 | .43 |
| 15 | .59 | 1 | .04 | 4,5 | .18 | 8 | .31 |
| | | 2 | .08 | 3,5 | .14 | 9 | .35 |
| | | 3 | .12 | 2,5 | .10 | 10 | .39 |
| 16 | .63 | 0 | .00 | 6,5 | .26 | 8,5 | .33 |
| | | 1 | .04 | 5,5 | .22 | 9,5 | .37 |
| | | 1,5 | .06 | 5 | .20 | 10 | .39 |
| | | 2,5 | .10 | 4 | .16 | 11 | .43 |
| 18 | .71 | 0 | .00 | 5,5 | .22 | 7,5 | .30 |
| | | 1 | .04 | 4,5 | .18 | 8,5 | .33 |
| | | 1,5 | .06 | 4 | .16 | 9 | .35 |
| 20 | .79 | 1 | .04 | 7 | .28 | 11,5 | .45 |
| | | 2 | .08 | 6 | .24 | 12,5 | .49 |
| | | 3 | .12 | 5 | .20 | 13,5 | .53 |
| | | 4 | .16 | 4 | .16 | 14,5 | .57 |
| 22 | .87 | 1 | .04 | 5,7 | .22 | 8,5 | .33 |
| | | 2 | .08 | 4,7 | .19 | 9,5 | .37 |
| | | 3 | .12 | 3,7 | .15 | 10,5 | .41 |
| | | 3,5 | .14 | 3,2 | .13 | 11 | .43 |
| 25 | .98 | 1 | .04 | 7 | .28 | 13 | .51 |
| | | 1,5 | .06 | 6,5 | .26 | 13,5 | .53 |
| | | 2,5 | .10 | 5,5 | .22 | 14,5 | .57 |
| | | 4 | .16 | 4 | .16 | 16 | .63 |
| 28 | 1.10 | 1,5 | .06 | 5,7 | .22 | 9 | .35 |
| | | 2,5 | .10 | 4,7 | .19 | 10 | .39 |
| | | 3 | .12 | 4,2 | .17 | 10,5 | .41 |
| 30 | 1.18 | -0,5 | -.02 | 9 | .35 | 13 | .51 |
| | | 0,5 | .02 | 8 | .31 | 14 | .55 |
| | | 1 | .04 | 7,5 | .30 | 14,5 | .57 |
| | | 3 | .12 | 5,5 | .22 | 16,5 | .65 |
| | | 4,5 | .18 | 4 | .16 | 18 | .71 |
| 35 | 1.38 | 1,5 | .06 | 6,5 | .26 | 12 | .47 |
| | | 2 | .08 | 6 | .24 | 12,5 | .49 |
| | | 3 | .12 | 5 | .20 | 13,5 | .53 |
| | | 4,5 | .18 | 3,5 | .14 | 15 | .59 |
| 38 | 1.50 | 0 | .00 | 10 | .39 | 16 | .63 |
| | | 0,5 | .02 | 9,5 | .37 | 16,5 | .65 |
| | | 2 | .08 | 8 | .31 | 18 | .71 |
| | | 4 | .16 | 6 | .24 | 20 | .79 |
| 42 | 1.65 | 1,5 | .06 | 7 | .28 | 12,5 | .49 |
| | | 3 | .12 | 6,5 | .26 | 14 | .55 |
| | | 4,5 | .18 | 5 | .20 | 15,5 | .61 |



Assembly Instructions for STAUFF Connect 37° Flared Tube Fittings

Tube Flaring with a STAUFF Press Machine and Assembly with the Fitting Body

Calculation Dimensions

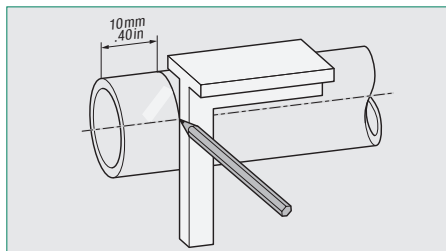


| Series | Tube OD x Wall Thickness (mm/in) D x S | Dimensions (mm/in) | | Corrected Tube Lengths for Different Wall Thicknesses (mm/in) | | | | | | | | | | | | | | |
|------------|--|-----------------------|------|--|------|------|------|------|-----|---|---|--|--|--|--|-----|-----|-----|
| | | L1 | L2 | 1 | 1,5 | 2 | 2,5 | 3 | 3,5 | 4 | 5 | | | | | | | |
| L | 6 x 1 | 17,5 | 20,5 | • | 1 | 1 | | | | | | | | | | | | |
| | .24 x .04 | .69 | .81 | | .04 | .04 | | | | | | | | | | | | |
| | 8 x 1 | 18,5 | 21,5 | • | 1 | 1,5 | | | | | | | | | | | | |
| | .31 x .04 | .73 | .85 | | .04 | .06 | | | | | | | | | | | | |
| | 10 x 1,5 | 19,5 | 24 | -1 | • | 1 | | | | | | | | | | | | |
| | .39 x .06 | .77 | .94 | -.04 | | .04 | | | | | | | | | | | | |
| | 12 x 1,5 | 20 | 24,5 | -1 | • | 1 | | | | | | | | | | | | |
| | .47 x .06 | .79 | .96 | -.04 | | .04 | | | | | | | | | | | | |
| | 15 x 1,5 | 21,5 | 25,5 | | • | 1 | 2 | | | | | | | | | | | |
| | .59 x .06 | .85 | 1.00 | | | .04 | .08 | | | | | | | | | | | |
| | 18 x 2 | 23 | 27 | | -1 | • | 1 | | | | | | | | | | | |
| | .71 x .08 | .91 | 1.06 | | -.04 | | .04 | | | | | | | | | | | |
| | 22 x 2 | 24 | 30,5 | | -1 | • | 1 | 1,5 | | | | | | | | | | |
| | .87 x .08 | .94 | 1.20 | | -.04 | | .04 | .06 | | | | | | | | | | |
| | 28 x 3 | 26 | 31,5 | | | | -1,5 | -0,5 | • | | | | | | | | | |
| | 1.10 x .12 | 1.02 | 1.24 | | | | -.06 | -.02 | | | | | | | | | | |
| | 35 x 3 | 30 | 36 | | | | -1,5 | -1 | • | | | | | | | | 1,5 | |
| | 1.38 x .12 | 1.18 | 1.42 | | | | -.06 | -.04 | | | | | | | | | .06 | |
| 42 x 3 | 34 | 40 | | | | -1,5 | | • | | | | | | | | 1,5 | | |
| 1.65 x .12 | 1.34 | 1.57 | | | | -.06 | | | | | | | | | | .06 | | |
| S | 6 x 1 | 17,5 | 20,5 | • | 1 | 1 | | | | | | | | | | | | |
| | .24 x .04 | .69 | .81 | | .04 | .04 | | | | | | | | | | | | |
| | 8 x 1 | 18,5 | 21,5 | • | 1 | 1,5 | | | | | | | | | | | | |
| | .31 x .04 | .73 | .85 | | .04 | .06 | | | | | | | | | | | | |
| | 10 x 1,5 | 20 | 24,5 | -1 | • | 1 | | | | | | | | | | | | |
| | .39 x .06 | .79 | .96 | -.04 | | .04 | | | | | | | | | | | | |
| | 12 x 1,5 | 20,5 | 25 | -1 | • | 1 | | | | | | | | | | | | |
| | .47 x .06 | .81 | .98 | -.04 | | .04 | | | | | | | | | | | | |
| | 14 x 2 | 23 | 27,5 | | -0,5 | • | 1 | 2 | | | | | | | | | | |
| | .55 x .08 | .91 | 1.08 | | -.02 | | .04 | .08 | | | | | | | | | | |
| | 16 x 2 | 25 | 31 | | -1 | • | 0,5 | 1,5 | | | | | | | | | | |
| | .63 x .08 | .98 | 1.22 | | -.04 | | .02 | .06 | | | | | | | | | | |
| | 20 x 2 | 27,5 | 33 | | | • | 1 | 2 | | | | | | | | | | |
| | .79 x .08 | 1.08 | 1.30 | | | | .04 | .08 | .12 | | | | | | | | | |
| | 25 x 3 | 32 | 38,5 | | | | -1,5 | -1 | • | | | | | | | | 1,5 | |
| | .98 x .12 | 1.26 | 1.52 | | | | -.06 | -.04 | | | | | | | | | .06 | |
| | 30 x 3 | 33 | 41,5 | | | | -2 | -1 | • | | | | | | | | 2 | 3,5 |
| | 1.18 x .12 | 1.30 | 1.63 | | | | -.08 | -.04 | | | | | | | | | .08 | .14 |
| 38 x 3 | 37,5 | 48 | | | | | -0,5 | • | | | | | | | | 1,5 | 3,5 | |
| 1.50 x .12 | 1.48 | 1.89 | | | | | -.02 | | | | | | | | | .06 | .14 | |

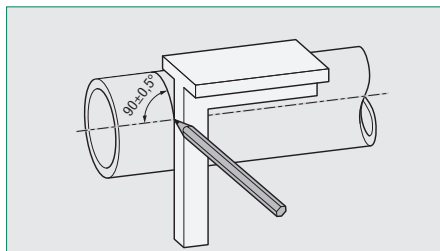


Assembly Instructions for 24° Weld Cones with O-Ring

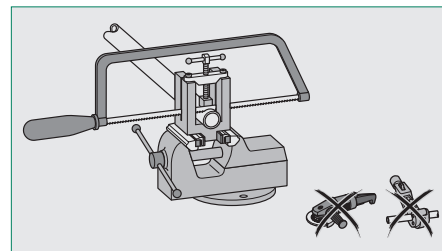
1. Tube Preparation



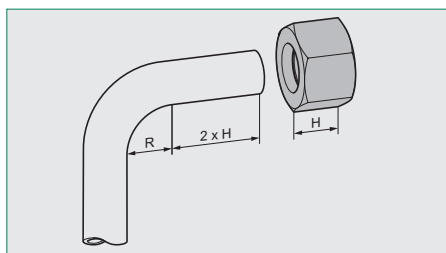
Saw off tube in right angle and at least 10 mm / .40 in from the cut made by the tube manufacturer / supplier in order to avoid failures caused during shipment.



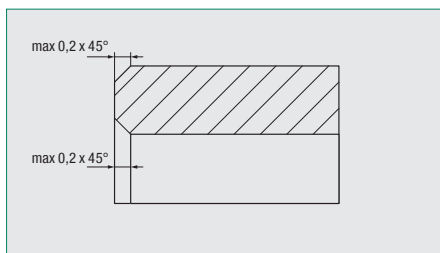
A maximum angular deviation / tolerance of $\pm 0,5^\circ$ relative to the tube axis is permissible.



Only use proper tube sawing machinery or equipment. Do not use tube cutters or grinders as this may result in unwanted angled cuts and cause severe burring.



For tube bends, the length of the straight section of the tube end to the start of the bending radius has to be twice the height of the union nut.



Slightly deburr inside and outside of the tube end (max 0,2 x 45°). The assembly area of the tube has to be free of contamination, chips and paint.



Please note: Improperly prepared and contaminated tubes will affect the service life of the connection and may result in leakage.

2. Assembly Preparation and Welding

Place the union nut on the weld cone.

Remove the o-ring from the front end of the weld cone before welding (usually supplied separately).

Weld the weld cone and the tube end according to any applicable guidelines for welding.

The user is fully responsible for the quality of the welding work.

Descal the welded area and clean the o-ring groove.

Assemble the o-ring and make sure that it is located in the groove of the weld cone without being twisted.

Lubricate the o-ring of the weld cone (e.g. using mineral-oil based hydraulic fluid HLP32). Do not use lubricating grease!

Immediately proceed with the assembly in order to avoid exposure to contamination.

3. Assembly with the Fitting Body

Carefully insert the weld cone into the 24° taper of the fitting body.

Tighten the union nut until the noticeable increase in force.

Then finish the assembly with another approximately 1/3 a turn (120°) beyond this point.

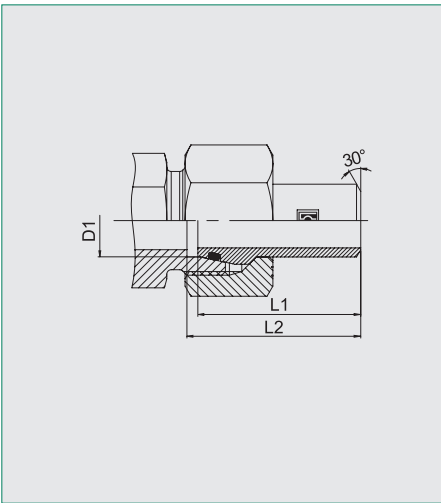
A marking line applied on the union nut and the fitting body makes it easier to indicate the sufficient tightening turns.

4. Repeated Assembly

For repeated assembly, the union nut has to be tightened using exactly the same force as for the original assembly.

The o-ring has to be checked for possible damages and, if necessary, replaced prior to the re-assembly.



Assembly Instructions for 24° Weld Cones with O-Ring
Calculation Dimensions


| Series | Tube OD | | Dimensions | | | |
|----------|----------|------|------------|------|---------|------|
| | D1 (mm) | (in) | L1 (mm) | (in) | L2 (mm) | (in) |
| L | 6 | .24 | 31 | 1.22 | 32 | 1.26 |
| | 8 | .31 | 31 | 1.22 | 32 | 1.26 |
| | 10 | .39 | 32,5 | 1.28 | 33,5 | 1.32 |
| | 12 | .47 | 32,5 | 1.28 | 33,5 | 1.32 |
| | 15 | .59 | 35 | 1.38 | 36 | 1.42 |
| | 18 | .71 | 36 | 1.42 | 37 | 1.46 |
| | 22 | .87 | 38,5 | 1.52 | 39,5 | 1.56 |
| | 28 | 1.10 | 41,5 | 1.63 | 42,5 | 1.67 |
| | 35 | 1.38 | 47 | 1.85 | 49,5 | 1.95 |
| | 42 | 1.65 | 47 | 1.85 | 50 | 1.97 |
| | S | 6 | .24 | 31 | 1.22 | 32 |
| 8 | | .31 | 31 | 1.22 | 32 | 1.26 |
| 10 | | .39 | 32,5 | 1.28 | 33,5 | 1.32 |
| 12 | | .47 | 32,5 | 1.28 | 33,5 | 1.32 |
| 14 | | .55 | 38,5 | 1.52 | 39,5 | 1.56 |
| 16 | | .63 | 39 | 1.54 | 41 | 1.61 |
| 20 | | .79 | 44,5 | 1.75 | 47 | 1.85 |
| 25 | | .98 | 49,5 | 1.95 | 53,5 | 2.11 |
| 30 | | 1.18 | 52,5 | 2.07 | 57,5 | 2.26 |
| 38 | | 1.50 | 56,5 | 2.22 | 64,5 | 2.54 |



Assembly Instructions for Tube Fittings with 24° Taper and O-Ring

1. Assembly Preparation

Make sure that the o-ring is located in the groove of the taper without being twisted.

Lubricate the o-ring of the taper fitting (e.g. using mineral-oil based hydraulic fluid HLP32). Do not use lubricating grease!

Immediately proceed with the assembly in order to avoid exposure to contamination.

2. Assembly with the Fitting Body

Keep the taper fitting aligned and carefully insert it into the 24° taper of the fitting body.

Tighten the wire-pin nut until the noticeable increase in force, and then finish the assembly with another approximately 1/3 a turn (120°) beyond this point.

Important: Always use a spanner to hold the fitting body during the assembly procedure.

A marking line applied on the nut and the fitting body makes it easier to indicate the sufficient tightening turns.

Assembly Instructions for Tube Fittings with Standpipe

1. Assembly Preparation

Standpipe fittings are always supplied with factory-assembled cutting rings and union nuts.

2. Assembly with the Fitting Body

Keep the fitting with standpipe aligned and carefully insert it into the 24° taper of the fitting body.

Tighten the wire-pin nut until the noticeable increase in force, and then finish the assembly with another approximately 1/12 a turn (30°) beyond this point.

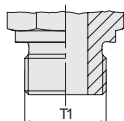
Important: Always use a spanner to hold the fitting body during the assembly procedure.

A marking line applied on the nut and the fitting body makes it easier to indicate the sufficient tightening turns.

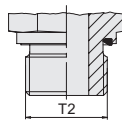


Assembly Instructions for Tube Fittings with Male Threaded Stud

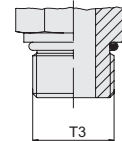
Tightening Torques


Metallic Sealing Edge

Metric Parallel Thread
DIN 3852-1 (Form B) / ISO 9974-3 (Type B)
Whitworth Parallel Pipe Thread
DIN 3852-2 (Form B) / ISO 1179-4 (Type B)


Profile Sealing Ring

Metric Parallel Thread
ISO 9974-2 (Type E)
Whitworth Parallel Pipe Thread
ISO 1179-2 (Type E)


**O-Ring without Retaining Ring
(Non-Adjustable)**

Metric Parallel Thread
ISO 6149-2 /-3

| Series | Tube OD (mm/in) D1 | Thread T1 | | Thread T2 | | | | Thread T3 | | | |
|--------|--------------------------|-------------------------|---------------------|-----------------------|---|-------------------------|---|----------------------|---|------------|---|
| | | Metallic Sealing Edge | Torque (N·m) ca. | Metallic Sealing Edge | Torque (^{N·m} / _{ft·lb}) ca. | Profile Sealing Ring | Torque (^{N·m} / _{ft·lb}) ca. | Profile Sealing Ring | Torque (^{N·m} / _{ft·lb}) ca. | O-Ring | Torque (^{N·m} / _{ft·lb}) ca. |
| L | 6 | M 10 x 1 | 18 | G 1/8 | 18 | M 10 x 1 | 18 | G 1/8 | 18 | M 10 x 1 | 15 |
| | .24 | | 13.32 | | 13.32 | | 13.32 | | 11.1 | | |
| | 8 | M 12 x 1,5 | 30 | G 1/4 | 35 | M 12 x 1,5 | 25 | G 1/4 | 30 | M 12 x 1,5 | 25 |
| | .31 | | 22.2 | | 25.9 | | 18.5 | | 22.2 | | 18.5 |
| | 10 | M 14 x 1,5 | 45 | G 1/4 | 35 | M 14 x 1,5 | 45 | G 1/4 | 45 | M 14 x 1,5 | 35 |
| | .39 | | 33.3 | | 25.9 | | 33.3 | | 33.3 | | 25.9 |
| | 12 | M 16 x 1,5 | 65 | G 3/8 | 70 | M 16 x 1,5 | 55 | G 3/8 | 70 | M 16 x 1,5 | 40 |
| | .47 | | 48.1 | | 51.8 | | 40.7 | | 51.8 | | 29.6 |
| | 15 | M 18 x 1,5 | 80 | G 1/2 | 110 | M 18 x 1,5 | 70 | G 1/2 | 90 | M 18 x 1,5 | 45 |
| | .59 | | 59.2 | | 81.4 | | 51.8 | | 66.6 | | 33.3 |
| | 18 | M 22 x 1,5 | 140 | G 1/2 | 110 | M 22 x 1,5 | 125 | G 1/2 | 90 | M 22 x 1,5 | 60 |
| | .71 | | 103.6 | | 81.4 | | 92.5 | | 66.6 | | 44.4 |
| | 22 | M 26 x 1,5 ² | 190 | G 3/4 | 180 | M 26 x 1,5 ² | 180 | G 3/4 | 180 | M 27 x 2 | 100 |
| | .87 | | 140.6 | | 133.2 | | 133.2 | | 133.2 | | 74 |
| | 28 | M 33 x 2 | 330 | G 1 | 330 | M 33 x 2 | 310 | G 1 | 310 | M 33 x 2 | 160 |
| 1.10 | 244.2 | | 244.2 | | 229.4 | | 229.4 | | 118.4 | | |
| 35 | M 42 x 2 | 500 | G 1 1/4 | 540 | M 42 x 2 | 450 | G 1 1/4 | 450 | M 42 x 2 | 210 | |
| 1.38 | | 370 | | 399.6 | | 333 | | 333 | | 155.4 | |
| 42 | M 48 x 2 | 630 | G 1 1/2 | 630 | M 48 x 2 | 540 | G 1 1/2 | 540 | M 48 x 2 | 260 | |
| 1.65 | | 466.2 | | 466.2 | | 399.6 | | 399.6 | | 192.4 | |
| S | 6 | M 10 x 1 | 18 | G 1/8 | 18 | M 10 x 1 | 18 | G 1/8 | 18 | M 10 x 1 | 35 |
| | .24 | | 13.32 | | 13.32 | | 13.32 | | 25.9 | | |
| | 8 | M 12 x 1,5 | 30 | G 1/4 | 35 | M 12 x 1,5 | 25 | G 1/4 | 30 | M 12 x 1,5 | 40 |
| | .31 | | 22.2 | | 25.9 | | 18.5 | | 22.2 | | 29.6 |
| | 10 | M 14 x 1,5 | 45 | G 1/4 | 35 | M 14 x 1,5 | 45 | G 1/4 | 45 | M 14 x 1,5 | 55 |
| | .39 | | 33.3 | | 25.9 | | 33.3 | | 33.3 | | 40.7 |
| | 12 | M 16 x 1,5 | 65 | G 3/8 | 70 | M 16 x 1,5 | 55 | G 3/8 | 70 | M 16 x 1,5 | 70 |
| | .47 | | 48.1 | | 51.8 | | 40.7 | | 51.8 | | 51.8 |
| | 14 ¹ | M 18 x 1,5 | 80 | G 1/2 | 110 | M 18 x 1,5 | 70 | G 1/2 | 90 | M 18 x 1,5 | |
| | .55 | | 59.2 | | 81.4 | | 51.8 | | 66.6 | | |
| | 16 | M 22 x 1,5 | 140 | G 1/2 | 110 | M 22 x 1,5 | 125 | G 1/2 | 90 | M 22 x 1,5 | 100 |
| | .63 | | 103.6 | | 81.4 | | 92.5 | | 66.6 | | 74 |
| | 20 | M 26 x 1,5 ² | 190 | G 3/4 | 180 | M 26 x 1,5 ² | 180 | G 3/4 | 180 | M 27 x 2 | 170 |
| | .79 | | 140.6 | | 133.2 | | 133.2 | | 133.2 | | 125.8 |
| | 25 | M 33 x 2 | 330 | G 1 | 330 | M 33 x 2 | 310 | G 1 | 310 | M 33 x 2 | 310 |
| .98 | 244.2 | | 244.2 | | 229.4 | | 229.4 | | 229.4 | | |
| 30 | M 42 x 2 | 500 | G 1 1/4 | 540 | M 42 x 2 | 450 | G 1 1/4 | 450 | M 42 x 2 | 330 | |
| 1.18 | | 370 | | 399.6 | | 333 | | 333 | | 244.2 | |
| 38 | M 48 x 2 | 630 | G 1 1/2 | 630 | M 48 x 2 | 540 | G 1 1/2 | 540 | M 48 x 2 | 420 | |
| 1.50 | | 466.2 | | 466.2 | | 399.6 | | 399.6 | | 310.8 | |

¹ Tube size is no longer covered by the applicable standard.

² M 27 x 2 according to ISO 6149.

Please note: The tightening torques for male threaded studs listed in this catalogue are approximate values with a tolerance of +10% and always refer to original components of the STAUFF Connect range made of steel with the default Zinc/Nickel coating and a steel mating material.

Always apply sufficient lubricant to the contact surfaces of the threads prior to the assembly.

Please contact STAUFF prior to the assembly for recommended tightening torques for use with any mating materials other than Steel!



Assembly Instructions for Banjo Fittings

1. Assembly Preparation

Lubricate the o-ring of the banjo bolt (e.g. using mineral-oil based hydraulic fluid HLP32). Do not use lubricating grease!

Immediately proceed with the assembly in order to avoid exposure to contamination.

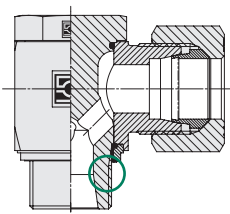
2. Assembly with the Fitting Body

Place the external metallic sealing ring or the retaining ring with captive seal on the opposite side of the banjo fitting into the larger bore and center it through the thread for the banjo bolt. Retaining rings with captive seal are additionally centered through the bore in the fitting body – any clearance between the ring and the fitting body is not allowed.

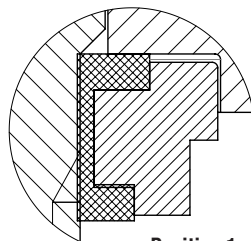
Align the body of the banjo fitting and tighten the banjo bolt with a spanner until the noticeable increase in force (pressure point).

Use a suitable spanner to finish the assembly with either another approximately 1/6 a turn (60°, applicable for retaining rings with captive seal) or 1/4 a turn (90°, applicable for external metallic sealing rings) beyond this point while holding the body of the banjo fitting in position using a second spanner.

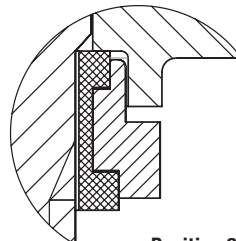
Positioning and Orientation of Retaining Rings with Captive Seal



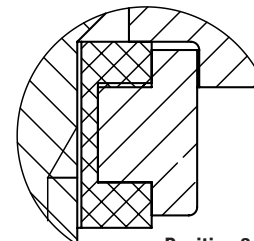
Applicable for RSWND / RSW / RST



Position 1



Position 2



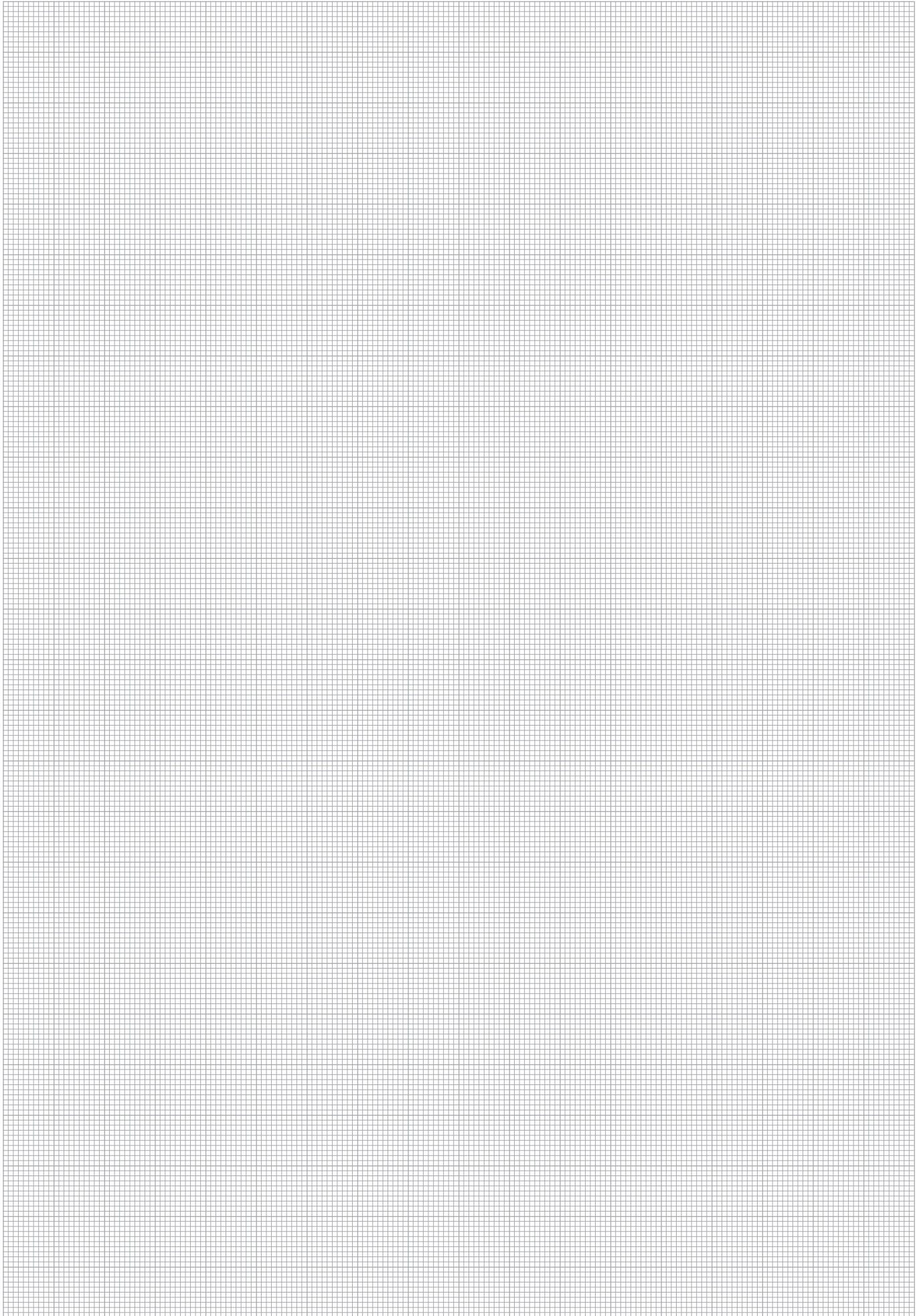
Position 3

| Series | Tube OD (mm/in) | Thread | Position |
|--------|-----------------|--------|----------|
| L | 6 | G 1/8 | 2 |
| | .24 | | |
| | 8 | G 1/4 | 2 |
| | .31 | | |
| | 10 | G 1/4 | 2 |
| | .39 | | |
| | 12 | G 3/8 | 1 |
| | .47 | | |
| | 15 | G 1/2 | 1 |
| | .59 | | |
| | 18 | G 1/2 | 1 |
| | .71 | | |
| | 22 | G 3/4 | 1 |
| | .87 | | |
| 28 | G 1 | 1 | |
| 1.10 | | | |
| 35 | G 1 1/4 | 1 | |
| 1.38 | | | |
| 42 | G 1 1/2 | 1 | |
| 1.65 | | | |
| S | 6 | G 1/4 | 2 |
| | .24 | | |
| | 8 | G 1/4 | 2 |
| | .31 | | |
| | 10 | G 3/8 | 1 |
| | .39 | | |
| | 12 | G 3/8 | 1 |
| | .47 | | |
| | 14 | G 1/2 | 1 |
| | .55 | | |
| | 16 | G 1/2 | 1 |
| | .63 | | |
| | 20 | G 3/4 | 1 |
| | .79 | | |
| 25 | G 1 | 1 | |
| .98 | | | |
| 30 | G 1 1/4 | 1 | |
| 1.18 | | | |
| 38 | G 1 1/2 | 1 | |
| 1.50 | | | |

| Series | Tube OD (mm/in) | Thread | Position |
|--------|-----------------|----------|----------|
| L | 6 | M 10x1 | 2 |
| | .24 | | |
| | 8 | M 12x1,5 | 3 |
| | .31 | | |
| | 10 | M 14x1,5 | 2 |
| | .39 | | |
| | 12 | M 16x1,5 | 1 |
| | .47 | | |
| | 15 | M 18x1,5 | 1 |
| | .59 | | |
| | 18 | M 22x1,5 | 1 |
| | .71 | | |
| | 22 | M 26x1,5 | 1 |
| | .87 | | |
| 28 | M 33x2 | 1 | |
| 1.10 | | | |
| 35 | M 42x2 | 1 | |
| 1.38 | | | |
| 42 | M 48x2 | 1 | |
| 1.65 | | | |
| S | 6 | M 12x1,5 | 3 |
| | .24 | | |
| | 8 | M 14x1,5 | 2 |
| | .31 | | |
| | 10 | M 16x1,5 | 1 |
| | .39 | | |
| | 12 | M 18x1,5 | 1 |
| | .47 | | |
| | 14 | M 20x1,5 | 1 |
| | .55 | | |
| | 16 | M 22x1,5 | 1 |
| | .63 | | |
| | 20 | M 27x2 | 1 |
| | .79 | | |
| 25 | M 33x2 | 1 | |
| .98 | | | |
| 30 | M 42x2 | 1 | |
| 1.18 | | | |
| 38 | M 48x2 | 1 | |
| 1.50 | | | |

Q





Q

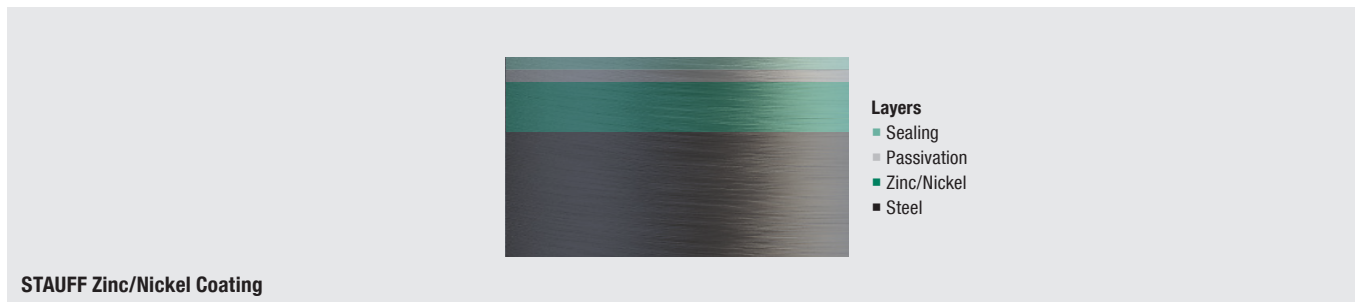




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Tube Fitting Materials and Surface Finishings



Fitting bodies of the STAUFF Connect range are usually machined from drawn or forged steel in accordance with DIN 3859-1 (Technical Specification for Tube Fittings).

Union nuts are either cold-pressed or hot-pressed.

Unless otherwise stated, all metal parts of the STAUFF Connect range of tube fittings are made of Steel with standard Zinc/Nickel coating (material code: W3), that offers excellent surface protection far beyond the market standard.

One of the few exceptions, weld fittings are made of Steel, phosphated (material code: W2).

Alternative surface coatings are available upon request.

Do not hesitate to contact STAUFF for further information.

Main Advantages of the STAUFF Zinc/Nickel Coating

- Premium long-life surface protection against corrosion with more than 1200 hours resistance to red rust / base metal corrosion in the salt-spray test according to DIN EN ISO 9227
- Free of hexavalent chrome Cr(VI)
- ELV compliant according to 2000/53/EC (End of Life Vehicles Directive)
- REACH compliant according to 1907/2006/EC (Registration, Evaluation, Authorisation and Restriction of Chemicals)
- RoHS compliant according to 2002/95/EC (Restrictions of the Use of Hazardous Substances)
- Easily surpassing the requirements of the corrosion protection class K5 (360 hours resistance to white rust / 720 hours resistance to red rust) as defined by the VDMA, the German Engineering Association (VDMA Standard Sheet 24576 „Fluid Power - Requirements and designations for corrosion-protection coatings free of hexavalent chrome“)
- Significantly reduced tendency to corrosion by contact with other metals such as Aluminium and Stainless Steel
- High abrasion resistance due to the ductility / plastic deformability of the coating
- Appealing colour scheme with a bright semi-gloss surface finish – comparable to Stainless Steel
- Surface is paintable with good paint adhesion properties (However, a painting test and, if necessary, degreasing of the surfaces to be painted are highly recommended)
- Little to no risk of triggering allergies, as the Zinc/Nickel base layer with a nickel content of 12-15 % is covered by both a passivation and a sealing layer to avoid the release of nickel and any direct physical contact
- Resistant against all commonly used hydraulic media



Elastomer Seal Materials

Unless otherwise stated, standard elastomer seals are made of NBR (Perbunan®) with a hardness degree of 90 shore A.

Elastomer seals made of NBR (Perbunan® – material code: B) are especially suitable for liquid or gaseous media at operating temperatures that range from -35 °C to +100 °C / -31 °F to +212 °F.

Elastomer seals for applications with higher temperatures or aggressive media, such as FKM (Viton® – material code: V – operating temperature range from -25 °C to +200 °C / -13 °F to +392 °F) and EPDM (material code: E), are available upon request.

Do not hesitate to contact STAUFF for further information.

The performance of elastomer seals during operation can be negatively affected by various influences. Elastomer seals should be inspected for any kind of damage (cracks, deformation, hardening or softening, swelling, reduced elasticity etc.) or contamination prior to the assembly process and when carrying out service and maintenance work, and should be replaced, if necessary.

Spare seals are available as part of the STAUFF Connect range.

Storage Recommendations

Please observe the following storage recommendations for elastomer seals in accordance with DIN 7716 (Requirements for Storage, Cleaning and Maintenance of Rubber Products):

- Store seals in a dry place, away from draughts, at temperatures not exceeding +25 °C / +77 °F.
- Protect seals from sunlight, ozone and strong artificial lightning during storage.

These recommendations do not only apply for separate elastomer seals, but also for tube fittings with pre-assembled o-rings and seals.

Not following these storage recommendations can cause brittle fracture of elastomer seals and result in leakage!

*Perbunan® is a registered trademark of Lanxess Deutschland GmbH.
Viton® is a registered trademark of DuPont Performance Elastomers L.L.C.*



Pressure and Temperature Ratings

General Information

Unless otherwise stated, all pressure ratings in this product catalogue are indicated in bar and PSI. All temperature ratings are indicated in °C (degree Celsius) and °F (degree Fahrenheit).

Pressure ratings are usually rounded to correspond with standardised pressure ratings, which are internationally recognised and assist to identify and match common sizes of components together.

All tube fittings and other components of the STAUFF Connect range meet or exceed common standardised pressure ratings for mobile and industrial fluid power applications up to nominal pressures of 800 bar / 11600 PSI (depending on series, type and size of the component – pressure reduction factors to be considered).

Pressure ratings are divided into nominal pressures (PN) and permissible operating pressures (PB).

Nominal Pressure (PN)

Nominal pressure (PN) is a term used to describe the pressure that tube fittings and other components are designed to safely withstand, and indicates the maximum operating pressure of tube fittings and other components that should be applied to the component when operating the system under stationary conditions.

During static load tests, burst pressures must be at least 4 times higher than the nominal pressures (safety factor of 4).

Permissible Operating Pressure (PB)

The permissible operating pressure (PB) of a component (as defined in DIN 2401, part 1) is identical to the maximum internal overpressure at regular operating conditions (operating temperature of +120 °C without dynamic loads / pressure peaks) as calculated based on the material in use and considering the permissible operating temperature (TB).

During static load tests, burst pressures must be at least 2,5 times higher than the permissible operating pressures (safety factor of 2,5).

Please note:

The pressure ratings and safety factors as specified are only applicable when strictly following the assembly instructions (e.g. tightening torques for male stud fittings) and only refer to original components of the STAUFF Connect range. Avoid mixing with other brands' products!

If components are exposed to vibrations, dynamic loads or pressure peaks, the pressure ratings must be reduced accordingly in order to keep the same level of safety.

Permissible Operating Temperature (TB)

Unless otherwise stated, the permissible operating temperature (TB) for tube fittings and other components in this product catalogue ranges from -40 °C to +120 °C / -40 °C to +248 °C in accordance with DIN 3859-1 (Technical Specification for Tube Fittings).

Please observe that the permissible operating temperature may differ for tube fittings and other components that use elastomer seals.



Pressure Reduction Factors

Pressure reduction factors (in percent) have to be considered when intending to use the components at operating temperatures exceeding +120 °C / +248 °F.

Calculation Example

Component Straight Fitting FI-G-10S-W3-MS made of Steel with a nominal pressure (PN) rating of 800 bar / 11600 PSI

Temperature +175 °C / +347 °F

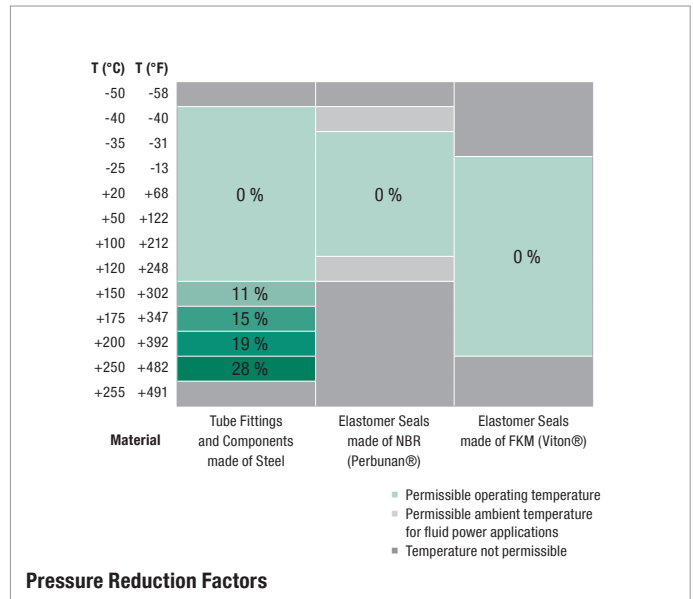
Reduction Factor 15 %

Reduced Nominal Pressure $PN = \frac{800 \text{ bar}}{100 \%} \times (100 \% - 15 \%) = 680 \text{ bar}$

$PN = \frac{11600 \text{ PSI}}{100 \%} \times (100 \% - 15 \%) = 9860 \text{ PSI}$

Please note:

When selecting tubes and other components for your system, any additional potential pressure reduction factors stated by the manufacturers / suppliers have to be considered.



Selection Criteria for Tube

STAUFF recommends to use seamless, cold-drawn and normalized precision steel tubes as specified in DIN EN 10305-4, material E235+N (material number 1.0308+N, formerly St37.4) or material E355 (material number 1.0580, formerly St52.4).

In order to avoid misdeliveries, the tubes have to be ordered from the supplier by specifying the exact outer and inner diameter.

Tube materials and tolerances differing from these recommendations may lead to system faults or leakages and may even result in total breakdowns.

Unless otherwise stated, the pressure / temperature ratings as well as all other operating conditions indicated in this product catalogue do not refer to the actual tube. Specifications made by the respective tube manufacturers / suppliers have to be considered.



Calculated Design / Burst Pressures for Tube (bar)

| Tube OD (mm) | Tube ID (mm) | Tube Wall (mm) | STAUFF Nominal pressure (bar) | Calculated Design Pressure (bar) in accordance with DIN 2413 - Load Case I (predominantly static loads, up to +120 °C) | | | Calculated Design Pressure (bar) in accordance with DIN 2413 - Load Case III (dynamic / pulsating loads, up to +120 °C) | | | Calculated Burst Pressure (bar) in accordance with ISO 10763 | | | |
|-----------------|-----------------|-------------------|----------------------------------|---|--------------|--------------------|--|--------------------|--------------------|---|--------------------|--------------------|------------------|
| | | | | Light Series | Heavy Series | Material E235+N | Material E355 | Material 1.4571 | Material E235+N | Material E355 | Material 1.4571 | Material E235+N | Material E355 |
| D1 | D2 | S | | | | | | | | | | | |
| 6 | 4,5 | 0,75 | 500 | 800 | 338 | 491 | 368 | 303 | 310 | 256 | 1116 | 1525 | 1346 |
| 6 | 4 | 1 | 500 | 800 | 450 | 655 | 490 | 391 | 400 | 330 | 1573 | 2149 | 1898 |
| 6 | 3 | 1,5 | 500 | 800 | 675 | 983 | 735 | 551 | 563 | 465 | 2689 | 3674 | 3244 |
| 6* | 2 | 2 | 500 | 800 | 900 | 1310 | 980 | 692 | 708 | 585 | 4263 | 5823 | 5142 |
| 6* | 1,5 | 2,25 | 500 | 800 | 1013 | 1474 | 1103 | 757 | 774 | 639 | 5379 | 7347 | 6488 |
| 8 | 6 | 1 | 500 | 800 | 338 | 491 | 368 | 303 | 310 | 256 | 1116 | 1525 | 1346 |
| 8 | 5 | 1,5 | 500 | 800 | 506 | 737 | 551 | 433 | 443 | 366 | 1824 | 2491 | 2200 |
| 8 | 4 | 2 | 500 | 800 | 675 | 983 | 735 | 551 | 563 | 465 | 2689 | 3674 | 3244 |
| 8* | 3 | 2,5 | 500 | 800 | 844 | 1228 | 919 | 659 | 673 | 556 | 3806 | 5198 | 4590 |
| 10 | 8 | 1 | 500 | 800 | 270 | 393 | 294 | 248 | 253 | 209 | 866 | 1183 | 1044 |
| 10 | 7 | 1,5 | 500 | 800 | 405 | 590 | 441 | 357 | 365 | 301 | 1384 | 1890 | 1669 |
| 10 | 6 | 2 | 500 | 800 | 540 | 786 | 588 | 458 | 468 | 386 | 1982 | 2707 | 2391 |
| 10 | 5 | 2,5 | 500 | 800 | 675 | 983 | 735 | 551 | 563 | 465 | 2689 | 3674 | 3244 |
| 10* | 4 | 3 | 500 | 800 | 810 | 1179 | 882 | 638 | 652 | 539 | 3555 | 4856 | 4288 |
| 12 | 10 | 1 | 400 | 630 | 225 | 328 | 245 | 209 | 214 | 177 | 707 | 966 | 853 |
| 12 | 9 | 1,5 | 400 | 630 | 338 | 491 | 368 | 303 | 310 | 256 | 1116 | 1525 | 1346 |
| 12 | 8 | 2 | 400 | 630 | 450 | 655 | 490 | 391 | 400 | 330 | 1573 | 2149 | 1898 |
| 12 | 7 | 2,5 | 400 | 630 | 563 | 819 | 613 | 474 | 484 | 400 | 2091 | 2857 | 2523 |
| 12 | 6 | 3 | 400 | 630 | 675 | 983 | 735 | 551 | 563 | 465 | 2689 | 3674 | 3244 |
| 12* | 5 | 3,5 | 400 | 630 | 823 | 1180 | 858 | 624 | 638 | 527 | 3397 | 4640 | 4097 |
| 12* | 4 | 4 | 400 | 630 | 940 | 1348 | 980 | 692 | 708 | 585 | 4263 | 5823 | 5142 |
| 14 | 12 | 1 | | 630 | 193 | 281 | 210 | 181 | 185 | 153 | 598 | 817 | 721 |
| 14 | 11 | 1,5 | | 630 | 289 | 421 | 315 | 264 | 270 | 223 | 936 | 1278 | 1129 |
| 14 | 10 | 2 | | 630 | 386 | 561 | 420 | 342 | 349 | 289 | 1306 | 1783 | 1575 |
| 14 | 9 | 2,5 | | 630 | 482 | 702 | 525 | 415 | 425 | 351 | 1714 | 2342 | 2068 |
| 14 | 8 | 3 | | 630 | 579 | 842 | 630 | 485 | 496 | 410 | 2171 | 2966 | 2619 |
| 14 | 7 | 3,5 | | 630 | 705 | 1011 | 735 | 551 | 563 | 465 | 2689 | 3674 | 3244 |
| 15 | 13 | 1 | 400 | | 180 | 262 | 196 | 170 | 174 | 143 | 555 | 758 | 670 |
| 15 | 12 | 1,5 | 400 | | 270 | 393 | 294 | 248 | 253 | 209 | 866 | 1183 | 1044 |
| 15 | 11 | 2 | 400 | | 360 | 524 | 392 | 321 | 329 | 271 | 1203 | 1644 | 1452 |
| 15 | 10 | 2,5 | 400 | | 450 | 655 | 490 | 391 | 400 | 330 | 1573 | 2149 | 1898 |
| 15 | 9 | 3 | 400 | | 540 | 786 | 588 | 458 | 468 | 386 | 1982 | 2707 | 2391 |
| 16 | 14 | 1 | | 630 | 169 | 246 | 184 | 160 | 163 | 135 | 518 | 708 | 625 |
| 16 | 13 | 1,5 | | 630 | 253 | 368 | 276 | 233 | 239 | 197 | 806 | 1100 | 972 |
| 16 | 12 | 2 | | 630 | 338 | 491 | 368 | 303 | 310 | 256 | 1116 | 1525 | 1346 |
| 16 | 11 | 2,5 | | 630 | 422 | 614 | 459 | 370 | 378 | 312 | 1454 | 1986 | 1754 |
| 16 | 10 | 3 | | 630 | 506 | 737 | 551 | 433 | 443 | 366 | 1824 | 2491 | 2200 |
| 16 | 8 | 4 | | 630 | 705 | 1011 | 735 | 551 | 563 | 465 | 2689 | 3674 | 3244 |
| 18 | 16 | 1 | 400 | | 150 | 218 | 163 | 143 | 146 | 121 | 457 | 624 | 551 |
| 18 | 15 | 1,5 | 400 | | 225 | 328 | 245 | 209 | 214 | 177 | 707 | 966 | 853 |
| 18 | 14 | 2 | 400 | | 300 | 437 | 327 | 273 | 279 | 230 | 975 | 1332 | 1176 |
| 18 | 13 | 2,5 | 400 | | 375 | 546 | 408 | 333 | 341 | 281 | 1263 | 1725 | 1523 |
| 18 | 12 | 3 | 400 | | 450 | 655 | 490 | 391 | 400 | 330 | 1573 | 2149 | 1898 |
| 18 | 10 | 4 | 400 | | 627 | 899 | 653 | 500 | 511 | 422 | 2281 | 3115 | 2751 |
| 20 | 17 | 1,5 | | 420 | 203 | 295 | 221 | 190 | 194 | 160 | 631 | 861 | 761 |
| 20 | 16 | 2 | | 420 | 270 | 393 | 294 | 248 | 253 | 209 | 866 | 1183 | 1044 |
| 20 | 15 | 2,5 | | 420 | 338 | 491 | 368 | 303 | 310 | 256 | 1116 | 1525 | 1346 |
| 20 | 14 | 3 | | 420 | 405 | 590 | 441 | 357 | 365 | 301 | 1384 | 1890 | 1669 |
| 20 | 13 | 3,5 | | 420 | 494 | 708 | 515 | 408 | 417 | 345 | 1671 | 2283 | 2016 |
| 20 | 12 | 4 | | 420 | 564 | 809 | 588 | 458 | 468 | 386 | 1982 | 2707 | 2391 |
| 20 | 10 | 5 | | 420 | 705 | 1011 | 735 | 551 | 563 | 465 | 2689 | 3674 | 3244 |

Load case I according to DIN 2413 describes predominantly static loads at temperatures not exceeding +120 °C.
 Load case III according to DIN 2413 describes dynamic / pulsating loads at temperatures not exceeding +120 °C.

For some sizes of thin-walled steel tube, support sleeves are highly recommended and in some case generally required.
 Please see page G11 for selection charts and detailed assembly instructions.



Calculated Design / Burst Pressures for Tube (bar)

| Tube OD (mm) | Tube ID (mm) | Tube Wall (mm) | STAUFF Nominal pressure (bar) | | Calculated Design Pressure (bar) in accordance with DIN 2413 - Load Case I (predominantly static loads, up to +120 °C) | | | Calculated Design Pressure (bar) in accordance with DIN 2413 - Load Case III (dynamic / pulsating loads, up to +120 °C) | | | Calculated Burst Pressure (bar) in accordance with ISO 10763 | | |
|-----------------|-----------------|-------------------|----------------------------------|--------------|---|------------------|--------------------|--|------------------|--------------------|---|------------------|--------------------|
| | | | Light Series | Heavy Series | Material E235+N | Material E355 | Material 1.4571 | Material E235+N | Material E355 | Material 1.4571 | Material E235+N | Material E355 | Material 1.4571 |
| 22 | 20 | 1 | 250 | | 123 | 179 | 134 | 118 | 121 | 100 | 370 | 505 | 446 |
| 22 | 19 | 1,5 | 250 | | 184 | 268 | 200 | 173 | 177 | 146 | 569 | 777 | 686 |
| 22 | 18 | 2 | 250 | | 245 | 357 | 267 | 227 | 232 | 192 | 779 | 1064 | 939 |
| 22 | 17 | 2,5 | 250 | | 307 | 447 | 334 | 278 | 285 | 235 | 1000 | 1366 | 1207 |
| 22 | 16 | 3 | 250 | | 368 | 536 | 401 | 328 | 335 | 277 | 1236 | 1688 | 1490 |
| 22 | 15 | 3,5 | 250 | | 449 | 643 | 468 | 376 | 384 | 317 | 1486 | 2030 | 1792 |
| 22 | 14 | 4 | 250 | | 513 | 735 | 535 | 422 | 431 | 356 | 1754 | 2396 | 2115 |
| 25 | 22 | 1,5 | | 420 | 162 | 236 | 176 | 154 | 157 | 130 | 496 | 678 | 598 |
| 25 | 21 | 2 | | 420 | 216 | 314 | 235 | 201 | 206 | 170 | 676 | 924 | 816 |
| 25 | 20 | 2,5 | | 420 | 270 | 393 | 294 | 248 | 253 | 209 | 866 | 1183 | 1044 |
| 25 | 19 | 3 | | 420 | 324 | 472 | 353 | 292 | 299 | 247 | 1065 | 1455 | 1284 |
| 25 | 18 | 3,5 | | 420 | 395 | 566 | 412 | 336 | 343 | 283 | 1275 | 1741 | 1537 |
| 25 | 17 | 4 | | 420 | 451 | 647 | 470 | 378 | 386 | 319 | 1496 | 2044 | 1805 |
| 25 | 16 | 4,5 | | 420 | 508 | 728 | 529 | 418 | 428 | 353 | 1732 | 2365 | 2089 |
| 25 | 15 | 5 | | 420 | 564 | 809 | 588 | 458 | 468 | 386 | 1982 | 2707 | 2391 |
| 28 | 25 | 1,5 | 250 | | 145 | 211 | 158 | 138 | 141 | 117 | 440 | 601 | 530 |
| 28 | 24 | 2 | 250 | | 193 | 281 | 210 | 181 | 185 | 153 | 598 | 817 | 721 |
| 28 | 23 | 2,5 | 250 | | 241 | 351 | 263 | 223 | 228 | 188 | 763 | 1043 | 921 |
| 28 | 22 | 3 | 250 | | 289 | 421 | 315 | 264 | 270 | 223 | 936 | 1278 | 1129 |
| 28 | 21 | 3,5 | 250 | | 353 | 506 | 368 | 303 | 310 | 256 | 1116 | 1525 | 1346 |
| 28 | 20 | 4 | 250 | | 403 | 578 | 420 | 342 | 349 | 289 | 1306 | 1783 | 1575 |
| 30 | 26 | 2 | | 420 | 180 | 262 | 196 | 170 | 174 | 143 | 555 | 758 | 670 |
| 30 | 25 | 2,5 | | 420 | 225 | 328 | 245 | 209 | 214 | 177 | 707 | 966 | 853 |
| 30 | 24 | 3 | | 420 | 270 | 393 | 294 | 248 | 253 | 209 | 866 | 1183 | 1044 |
| 30 | 23 | 3,5 | | 420 | 329 | 472 | 343 | 285 | 291 | 241 | 1031 | 1408 | 1243 |
| 30 | 22 | 4 | | 420 | 376 | 539 | 392 | 321 | 329 | 271 | 1203 | 1644 | 1452 |
| 30 | 20 | 5 | | 420 | 470 | 674 | 490 | 391 | 400 | 330 | 1573 | 2149 | 1898 |
| 30 | 18 | 6 | | 420 | 564 | 809 | 588 | 458 | 468 | 386 | 1982 | 2707 | 2391 |
| 35 | 32 | 1,5 | 250 | | 121 | 173 | 126 | 111 | 114 | 94 | 348 | 475 | 419 |
| 35 | 31 | 2 | 250 | | 161 | 231 | 168 | 147 | 150 | 124 | 471 | 643 | 568 |
| 35 | 30 | 2,5 | 250 | | 201 | 289 | 210 | 181 | 185 | 153 | 598 | 817 | 721 |
| 35 | 29 | 3 | 250 | | 242 | 347 | 252 | 215 | 220 | 181 | 730 | 997 | 880 |
| 35 | 27 | 4 | 250 | | 322 | 462 | 336 | 280 | 286 | 236 | 1007 | 1375 | 1215 |
| 35 | 25 | 5 | 250 | | 403 | 578 | 420 | 342 | 349 | 289 | 1306 | 1783 | 1575 |
| 38 | 34 | 2 | | 420 | 148 | 213 | 155 | 136 | 139 | 115 | 432 | 589 | 521 |
| 38 | 33 | 2,5 | | 420 | 186 | 266 | 193 | 168 | 171 | 142 | 547 | 748 | 660 |
| 38 | 32 | 3 | | 420 | 223 | 319 | 232 | 199 | 203 | 168 | 667 | 911 | 804 |
| 38 | 30 | 4 | | 420 | 297 | 426 | 309 | 260 | 265 | 219 | 917 | 1253 | 1106 |
| 38 | 28 | 5 | | 420 | 371 | 532 | 387 | 318 | 325 | 268 | 1185 | 1619 | 1429 |
| 38 | 26 | 6 | | 420 | 445 | 639 | 464 | 373 | 382 | 315 | 1472 | 2011 | 1776 |
| 38 | 24 | 7 | | 420 | 519 | 745 | 542 | 427 | 436 | 360 | 1783 | 2436 | 2151 |
| 38 | 22 | 8 | | 420 | 594 | 851 | 619 | 478 | 488 | 404 | 2121 | 2897 | 2558 |
| 42 | 39 | 1,5 | 250 | | 101 | 144 | 105 | 93 | 96 | 79 | 288 | 393 | 347 |
| 42 | 38 | 2 | 250 | | 134 | 193 | 140 | 123 | 126 | 104 | 388 | 530 | 468 |
| 42 | 37 | 2,5 | 250 | | 168 | 241 | 175 | 153 | 156 | 129 | 492 | 672 | 593 |
| 42 | 36 | 3 | 250 | | 201 | 289 | 210 | 181 | 185 | 153 | 598 | 817 | 721 |
| 42 | 34 | 4 | 250 | | 269 | 385 | 280 | 237 | 242 | 200 | 820 | 1120 | 989 |
| 42 | 32 | 5 | 250 | | 336 | 481 | 350 | 290 | 297 | 245 | 1041 | 1441 | 1273 |

All figures are based on calculations carried out in accordance with DIN 2413 and ISO 10763.

They are intended to assist the user in the pre-selection of the correct tube only, and do not discharge the obligation to carry out own calculations in consideration of the actual conditions of use.

DIN 2413 does not apply to tube sizes marked by * (where D1/D2 > 2).



Calculated Design / Burst Pressures for Tube (PSI)

| Tube OD (in) | Tube ID (in) | Tube Wall (in) | STAUFF Nominal pressure (bar) | Calculated Design Pressure (PSI) in accordance with DIN 2413 - Load Case I (primary static loads, up to +248 °F) | | | Calculated Design Pressure (PSI) in accordance with DIN 2413 - Load Case III (dynamic loads, up to +248 °F) | | | Calculated Burst Pressure (PSI) in accordance with ISO 10763 | | | |
|-----------------|-----------------|-------------------|----------------------------------|---|--------------|--------------------|--|--------------------|--------------------|---|--------------------|--------------------|------------------|
| | | | | Light Series | Heavy Series | Material E235+N | Material E355 | Material 1.4571 | Material E235+N | Material E355 | Material 1.4571 | Material E235+N | Material E355 |
| D1 | D2 | S | | | | | | | | | | | |
| .24 | .18 | .03 | 7252 | 11603 | 4901 | 7120 | 5337 | 4394 | 4495 | 3713 | 16182 | 22113 | 19522 |
| .24 | .16 | .04 | 7252 | 11603 | 6525 | 9498 | 7107 | 5670 | 5800 | 4786 | 22809 | 31161 | 27529 |
| .24 | .12 | .06 | 7252 | 11603 | 9788 | 14254 | 10660 | 7990 | 8164 | 6744 | 38991 | 53273 | 47051 |
| .24* | .08 | .08 | 7252 | 11603 | 13050 | 18995 | 14214 | 10034 | 10266 | 8485 | 61814 | 84434 | 74580 |
| .24* | .06 | .09 | 7252 | 11603 | 14689 | 21373 | 15998 | 10977 | 11223 | 9268 | 77996 | 106532 | 94102 |
| .31 | .24 | .04 | 7252 | 11603 | 4901 | 7120 | 5337 | 4394 | 4495 | 3713 | 16182 | 22113 | 19522 |
| .31 | .20 | .06 | 7252 | 11603 | 7337 | 10687 | 7992 | 6279 | 6424 | 5308 | 26448 | 36120 | 31909 |
| .31 | .16 | .08 | 7252 | 11603 | 9788 | 14254 | 10660 | 7990 | 8164 | 6744 | 38991 | 53273 | 47051 |
| .31* | .12 | .10 | 7252 | 11603 | 12238 | 17806 | 13329 | 9556 | 9759 | 8064 | 55187 | 75371 | 66573 |
| .39 | .31 | .04 | 7252 | 11603 | 3915 | 5699 | 4264 | 3596 | 3669 | 3031 | 12557 | 17154 | 15142 |
| .39 | .28 | .06 | 7252 | 11603 | 5873 | 8555 | 6396 | 5177 | 5293 | 4366 | 20068 | 27405 | 24207 |
| .39 | .24 | .08 | 7252 | 11603 | 7830 | 11397 | 8528 | 6641 | 6786 | 5599 | 28739 | 39252 | 34679 |
| .39 | .20 | .10 | 7252 | 11603 | 9788 | 14254 | 10660 | 7990 | 8164 | 6744 | 38991 | 53273 | 47051 |
| .39* | .16 | .12 | 7252 | 11603 | 11745 | 17096 | 12793 | 9251 | 9454 | 7818 | 51548 | 70412 | 62193 |
| .47 | .39 | .04 | 5802 | 9138 | 3263 | 4756 | 3553 | 3031 | 3103 | 2567 | 10252 | 14007 | 12372 |
| .47 | .35 | .06 | 5802 | 9138 | 4901 | 7120 | 5337 | 4394 | 4495 | 3713 | 16182 | 22113 | 19522 |
| .47 | .31 | .08 | 5802 | 9138 | 6525 | 9498 | 7107 | 5670 | 5800 | 4786 | 22809 | 31161 | 27529 |
| .47 | .28 | .10 | 5802 | 9138 | 8164 | 11876 | 8891 | 6873 | 7018 | 5802 | 30320 | 41427 | 36594 |
| .47 | .24 | .12 | 5802 | 9138 | 9788 | 14254 | 10660 | 7990 | 8164 | 6744 | 38991 | 53273 | 47051 |
| .47* | .20 | .14 | 5802 | 9138 | 11934 | 17110 | 12444 | 9048 | 9251 | 7644 | 49257 | 67280 | 59423 |
| .47* | .16 | .16 | 5802 | 9138 | 13630 | 19546 | 14214 | 10034 | 10266 | 8485 | 61814 | 84434 | 74580 |
| .55 | .47 | .04 | | 9138 | 2799 | 4075 | 3046 | 2625 | 2683 | 2219 | 8671 | 11847 | 10457 |
| .55 | .43 | .06 | | 9138 | 4191 | 6105 | 4569 | 3828 | 3915 | 3234 | 13572 | 18531 | 16375 |
| .55 | .39 | .08 | | 9138 | 5597 | 8135 | 6092 | 4959 | 5061 | 4192 | 18937 | 25854 | 22844 |
| .55 | .35 | .10 | | 9138 | 6989 | 10179 | 7615 | 6018 | 6163 | 5091 | 24853 | 33959 | 29994 |
| .55 | .31 | .12 | | 9138 | 8396 | 12209 | 435 | 7033 | 7192 | 5947 | 31480 | 43007 | 37986 |
| .55 | .28 | .14 | | 9138 | 10223 | 14660 | 10660 | 7990 | 8164 | 6744 | 38991 | 53273 | 47051 |
| .59 | .51 | .04 | 5802 | | 2610 | 3799 | 2843 | 2465 | 2523 | 2074 | 8048 | 10991 | 9718 |
| .59 | .47 | .06 | 5802 | | 3915 | 5699 | 4264 | 3596 | 3669 | 3031 | 12557 | 17154 | 15142 |
| .59 | .43 | .08 | 5802 | | 5220 | 7598 | 5686 | 4655 | 4771 | 3931 | 17444 | 23838 | 21060 |
| .59 | .39 | .10 | 5802 | | 6525 | 9498 | 7107 | 5670 | 5800 | 4786 | 22809 | 31161 | 27529 |
| .59 | .35 | .12 | 5802 | | 7830 | 11397 | 8528 | 6641 | 6786 | 5599 | 28739 | 39252 | 34679 |
| .63 | .55 | .04 | | 9138 | 2451 | 3567 | 2669 | 2320 | 2364 | 1958 | 7511 | 10266 | 9065 |
| .63 | .51 | .06 | | 9138 | 3669 | 5336 | 4003 | 3379 | 3466 | 2857 | 11687 | 15950 | 14098 |
| .63 | .47 | .08 | | 9138 | 4901 | 7120 | 5337 | 4394 | 4495 | 3713 | 16182 | 22113 | 19522 |
| .63 | .43 | .10 | | 9138 | 6119 | 8903 | 6657 | 5365 | 5481 | 4525 | 21083 | 28797 | 25440 |
| .63 | .39 | .12 | | 9138 | 7337 | 10687 | 7992 | 6279 | 6424 | 5308 | 26448 | 36120 | 31909 |
| .63 | .31 | .16 | | 9138 | 10223 | 14660 | 10660 | 7990 | 8164 | 6744 | 38991 | 53273 | 47051 |
| .71 | .63 | .04 | 5802 | | 2175 | 3161 | 2364 | 2074 | 2117 | 1755 | 6627 | 9048 | 7992 |
| .71 | .59 | .06 | 5802 | | 3263 | 4756 | 3553 | 3031 | 3103 | 2567 | 10252 | 14007 | 12372 |
| .71 | .55 | .08 | 5802 | | 4350 | 6337 | 4743 | 3959 | 4046 | 3336 | 14138 | 19314 | 17057 |
| .71 | .51 | .10 | 5802 | | 5438 | 7917 | 5918 | 4829 | 4945 | 4076 | 18314 | 25013 | 22090 |
| .71 | .47 | .12 | 5802 | | 6525 | 9498 | 7107 | 5670 | 5800 | 4786 | 22809 | 31161 | 27529 |
| .71 | .39 | .16 | 5802 | | 9092 | 13036 | 9471 | 7250 | 7410 | 6121 | 33075 | 45168 | 39901 |
| .79 | .67 | .06 | | 6092 | 2944 | 4278 | 3205 | 2755 | 2813 | 2321 | 9150 | 12485 | 11038 |
| .79 | .63 | .08 | | 6092 | 3915 | 5699 | 4264 | 3596 | 3669 | 3031 | 12557 | 17154 | 15142 |
| .79 | .59 | .10 | | 6092 | 4901 | 7120 | 5337 | 4394 | 4495 | 3713 | 16182 | 22113 | 19522 |
| .79 | .55 | .12 | | 6092 | 5873 | 8555 | 6396 | 5177 | 5293 | 4366 | 20068 | 27405 | 24207 |
| .79 | .51 | .14 | | 6092 | 7163 | 10266 | 7470 | 5916 | 6047 | 5004 | 24230 | 33104 | 29240 |
| .79 | .47 | .16 | | 6092 | 8178 | 11731 | 8528 | 6641 | 6786 | 5599 | 28739 | 39252 | 34679 |
| .79 | .39 | .20 | | 6092 | 10223 | 14660 | 10660 | 7990 | 8164 | 6744 | 38991 | 53273 | 47051 |

Load case I according to DIN 2413 describes predominantly static loads at temperatures not exceeding +248 °F.
 Load case III according to DIN 2413 describes dynamic / pulsating loads at temperatures not exceeding +248 °F.

For some sizes of thin-walled steel tube, support sleeves are highly recommended and in some case generally required.
 Please see page G11 for selection charts and detailed assembly instructions.



Calculated Design / Burst Pressures for Tube (PSI)

| Tube OD (in) | Tube ID (in) | Tube Wall (in) | STAUFF Nominal pressure (bar) | Calculated Design Pressure (PSI) in accordance with DIN 2413 - Load Case I (primary static loads, up to +248 °F) | | | Calculated Design Pressure (PSI) in accordance with DIN 2413 - Load Case III (dynamic loads, up to +248 °F) | | | Calculated Burst Pressure (PSI) in accordance with ISO 10763 | | | |
|-----------------|-----------------|-------------------|----------------------------------|---|--------------|--------------------|--|--------------------|--------------------|---|--------------------|--------------------|------------------|
| | | | | Light Series | Heavy Series | Material E235+N | Material E355 | Material 1.4571 | Material E235+N | Material E355 | Material 1.4571 | Material E235+N | Material E355 |
| D1 | D2 | S | | | | | | | | | | | |
| .87 | .79 | .04 | 3626 | | 1784 | 2596 | 1944 | 1711 | 1755 | 1450 | 5365 | 7323 | 6469 |
| .87 | .75 | .06 | 3626 | | 2668 | 3886 | 2901 | 2509 | 2567 | 2118 | 8251 | 11267 | 9950 |
| .87 | .71 | .08 | 3626 | | 3553 | 5177 | 3873 | 3292 | 3364 | 2785 | 11296 | 15428 | 13619 |
| .87 | .67 | .10 | 3626 | | 4452 | 6482 | 4844 | 4031 | 4133 | 3408 | 14500 | 19807 | 17506 |
| .87 | .63 | .12 | 3626 | | 5336 | 7772 | 5816 | 4756 | 4858 | 4018 | 17922 | 24476 | 21611 |
| .87 | .59 | .14 | 3626 | | 6511 | 9324 | 6788 | 5452 | 5568 | 4598 | 21547 | 29435 | 25991 |
| .87 | .55 | .16 | 3626 | | 7439 | 10658 | 7760 | 6119 | 6250 | 5163 | 25433 | 34742 | 30676 |
| .98 | .87 | .06 | | 6092 | 2349 | 3422 | 2553 | 2233 | 2277 | 1886 | 7192 | 9831 | 8673 |
| .98 | .83 | .08 | | 6092 | 3132 | 4553 | 3408 | 2915 | 2987 | 2466 | 9802 | 13398 | 11835 |
| .98 | .79 | .10 | | 6092 | 3915 | 5699 | 4264 | 3596 | 3669 | 3031 | 12557 | 17154 | 15142 |
| .98 | .75 | .12 | | 6092 | 4698 | 6844 | 5120 | 4234 | 4336 | 3582 | 15443 | 21098 | 18623 |
| .98 | .71 | .14 | | 6092 | 5728 | 8207 | 5976 | 4872 | 4974 | 4105 | 18488 | 25245 | 22293 |
| .98 | .67 | .16 | | 6092 | 6540 | 9382 | 6817 | 5481 | 5597 | 4627 | 21692 | 29638 | 26180 |
| .98 | .63 | .18 | | 6092 | 7366 | 10556 | 7673 | 6061 | 6206 | 5120 | 25114 | 34293 | 30299 |
| .98 | .59 | .20 | | 6092 | 8178 | 11731 | 8528 | 6641 | 6786 | 5599 | 28739 | 39252 | 34679 |
| 1.10 | .98 | .06 | 3626 | | 2103 | 3060 | 2292 | 2001 | 2045 | 1697 | 6380 | 8715 | 7687 |
| 1.10 | .94 | .08 | 3626 | | 2799 | 4075 | 3046 | 2625 | 2683 | 2219 | 8671 | 11847 | 10457 |
| 1.10 | .91 | .10 | 3626 | | 3495 | 5090 | 3815 | 3234 | 3306 | 2727 | 11064 | 15124 | 13358 |
| 1.10 | .87 | .12 | 3626 | | 4191 | 6105 | 4569 | 3828 | 3915 | 3234 | 13572 | 18531 | 16375 |
| 1.10 | .83 | .14 | 3626 | | 5119 | 7337 | 5337 | 4394 | 4495 | 3713 | 16182 | 22113 | 19522 |
| 1.10 | .79 | .16 | 3626 | | 5844 | 8381 | 6092 | 4959 | 5061 | 4192 | 18937 | 25854 | 22844 |
| 1.18 | 1.02 | .08 | | 6092 | 2610 | 3799 | 2843 | 2465 | 2523 | 2074 | 8048 | 10991 | 9718 |
| 1.18 | .98 | .10 | | 6092 | 3263 | 4756 | 3553 | 3031 | 3103 | 2567 | 10252 | 14007 | 12372 |
| 1.18 | .94 | .12 | | 6092 | 3915 | 5699 | 4264 | 3596 | 3669 | 3031 | 12557 | 17154 | 15142 |
| 1.18 | .91 | .14 | | 6092 | 4771 | 6844 | 4975 | 4133 | 4220 | 3495 | 14950 | 20416 | 18028 |
| 1.18 | .87 | .16 | | 6092 | 5452 | 7816 | 5686 | 4655 | 4771 | 3931 | 17444 | 23838 | 21060 |
| 1.18 | .79 | .20 | | 6092 | 6815 | 9773 | 7107 | 5670 | 5800 | 4786 | 22809 | 31161 | 27529 |
| 1.18 | .71 | .24 | | 6092 | 8178 | 11731 | 8528 | 6641 | 6786 | 5599 | 28739 | 39252 | 34679 |
| 1.38 | 1.26 | .06 | 3626 | | 1755 | 2509 | 1828 | 1610 | 1653 | 1363 | 5046 | 6888 | 6077 |
| 1.38 | 1.22 | .08 | 3626 | | 2335 | 3350 | 2437 | 2132 | 2175 | 1798 | 6830 | 9324 | 8238 |
| 1.38 | 1.18 | .10 | 3626 | | 2915 | 4191 | 3046 | 2625 | 2683 | 2219 | 8671 | 11847 | 10457 |
| 1.38 | 1.14 | .12 | 3626 | | 3509 | 5032 | 3655 | 3118 | 3190 | 2625 | 10585 | 14457 | 12764 |
| 1.38 | 1.06 | .16 | 3626 | | 4669 | 6699 | 4873 | 4060 | 4147 | 3423 | 14602 | 19938 | 17622 |
| 1.38 | .98 | .20 | 3626 | | 5844 | 8381 | 6092 | 4959 | 5061 | 4192 | 18937 | 25854 | 22844 |
| 1.50 | 1.34 | .08 | | 6092 | 2146 | 3089 | 2248 | 1972 | 2016 | 1668 | 6264 | 8541 | 7557 |
| 1.50 | 1.30 | .10 | | 6092 | 2697 | 3857 | 2799 | 2436 | 2480 | 2060 | 7932 | 10846 | 9573 |
| 1.50 | 1.26 | .12 | | 6092 | 3234 | 4626 | 3365 | 2886 | 2944 | 2437 | 9672 | 13210 | 11661 |
| 1.50 | 1.18 | .16 | | 6092 | 4307 | 6177 | 4482 | 3770 | 3843 | 3176 | 13297 | 18169 | 16041 |
| 1.50 | 1.10 | .20 | | 6092 | 5380 | 7714 | 5613 | 4611 | 4713 | 3887 | 17183 | 23476 | 20726 |
| 1.50 | 1.02 | .24 | | 6092 | 6453 | 9266 | 6730 | 5409 | 5539 | 4569 | 21344 | 29160 | 25759 |
| 1.50 | .94 | .28 | | 6092 | 7526 | 10803 | 7861 | 6192 | 6322 | 5221 | 25854 | 35322 | 31198 |
| 1.50 | .87 | .31 | | 6092 | 8613 | 12340 | 8978 | 6931 | 7076 | 5860 | 30755 | 42007 | 37101 |
| 1.65 | 1.54 | .06 | 3626 | | 1465 | 2088 | 1523 | 1349 | 1392 | 1146 | 4176 | 5699 | 5033 |
| 1.65 | 1.50 | .08 | 3626 | | 1943 | 2799 | 2031 | 1784 | 1827 | 1508 | 5626 | 7685 | 6788 |
| 1.65 | 1.46 | .10 | 3626 | | 2436 | 3495 | 2538 | 2219 | 2262 | 1871 | 7134 | 9744 | 8601 |
| 1.65 | 1.42 | .12 | 3626 | | 2915 | 4191 | 3046 | 2625 | 2683 | 2219 | 8671 | 11847 | 10457 |
| 1.65 | 1.34 | .16 | 3626 | | 3901 | 5583 | 4061 | 3437 | 3509 | 2901 | 11890 | 16240 | 14344 |
| 1.65 | 1.26 | .20 | 3626 | | 4872 | 6975 | 5076 | 4205 | 4307 | 3553 | | 20895 | 18464 |

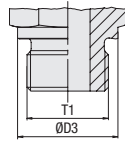
All figures are based on calculations carried out in accordance with DIN 2413 and ISO 10763.

They are intended to assist the user in the pre-selection of the correct tube only, and do not discharge the obligation to carry out own calculations in consideration of the actual conditions of use.

DIN 2413 does not apply to tube sizes marked by * (where D1/D2 > 2).

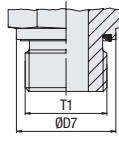


Port Dimensions for Fittings with Male Threaded Stud



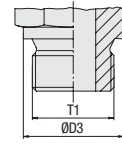
Metallic Sealing Edge

Metric Parallel Thread
DIN 3852-1 (Form B) / ISO 9974-3 (Type B)
Whitworth Parallel Pipe Thread
DIN 3852-2 (Form B) / ISO 1179-4 (Type B)



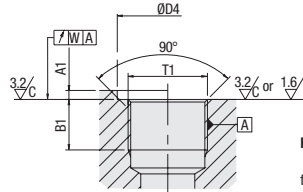
Profile Sealing Ring

Metric Parallel Thread
ISO 9974-2 (Type E)
Whitworth Parallel Pipe Thread
ISO 1179-2 (Type E)



Sealing Surface for Gasket (DIN 7603)

Metric Parallel Thread
DIN 3852-1 (Form A)
Whitworth Parallel Pipe Thread
DIN 3852-2 (Form A)



Port (Parallel Thread)

for Male Studs with Metric Parallel Thread
DIN 3852-1 (Form X) / ISO 9974-1
for Male Studs with Whitworth Parallel Pipe Thread
DIN 3852-2 (Form X) / ISO 1179-1

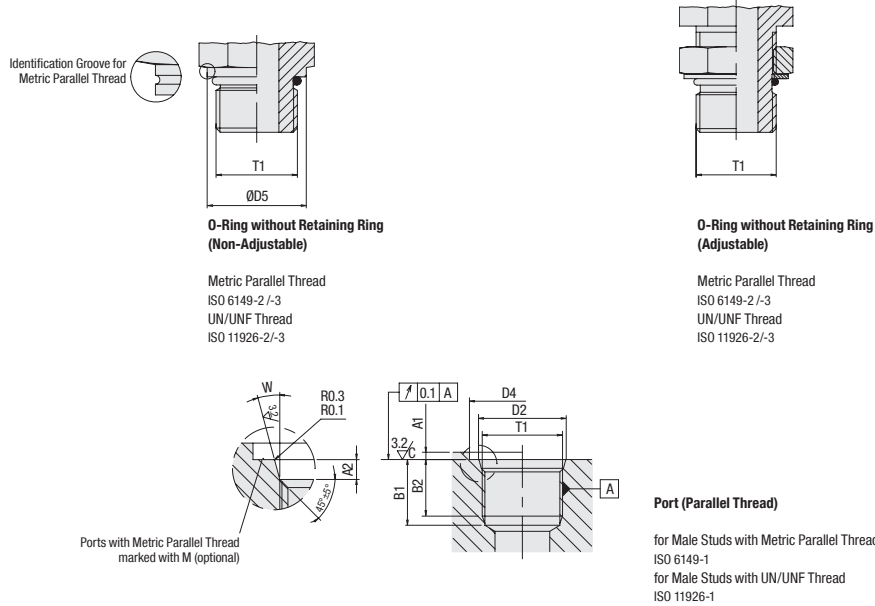
Dimensions

| Thread T1 ¹ | D3 | D7 _{-0,2} | D4 small _{min} | D4 wide _{min} | A1 _{max} | B1 _{min} | W |
|------------------------|------------|--------------------|-------------------------|------------------------|-------------------|-------------------|--------------|
| M 8 x 1 | 12 .47 | | 13 .51 | 17 .67 | 1 .04 | 8 .31 | 0,1 .0039 |
| M 10 x 1 | 14 .55 | 13,9 .55 | 15 .59 | 20 .79 | 1 .04 | 8 .31 | 0,1 .0039 |
| M 12 x 1,5 | 17 .67 | 16,9 .67 | 18 .71 | 25 .98 | 1,5 .06 | 12 .47 | 0,1 .0039 |
| M 14 x 1,5 | 19 .75 | 18,9 .74 | 20 .79 | 25 .98 | 1,5 .06 | 12 .47 | 0,1 .0039 |
| M 16 x 1,5 | 21 .83 | 21,9 .86 | 23 .91 | 28 1.10 | 1,5 .06 | 12 .47 | 0,1 .0039 |
| M 18 x 1,5 | 23 .91 | 23,9 .94 | 25 .98 | 30 1.18 | 2 .08 | 12 .47 | 0,1 .0039 |
| M 20 x 1,5 | 24 .94 | 25,9 1.02 | 27 1.06 | 34 1.34 | 2 .08 | 14 .55 | 0,1 .0039 |
| M 22 x 1,5 | 27 1.06 | 26,9 1.06 | 28 1.10 | 34 1.34 | 2,5 .10 | 14 .55 | 0,1 .0039 |
| M 26 x 1,5 | 31 1.22 | 31,9 1.26 | 33 1.30 | 42 1.65 | 2,5 .10 | 16 .63 | 0,2 .0079 |
| M 27 x 2 | 32 1.26 | 31,9 1.26 | 33 1.30 | 42 1.65 | 2,5 .10 | 16 .63 | 0,2 .0079 |
| M 33 x 2 | 39 1.54 | 39,9 1.57 | 41 1.61 | 47 1.85 | 2,5 .10 | 18 .71 | 0,2 .0079 |
| M 42 x 2 | 49 1.93 | 49,9 1.96 | 51 2.01 | 58 2.28 | 2,5 .10 | 20 .79 | 0,2 .0079 |
| M 48 x 2 | 55 2.17 | 54,9 2.16 | 56 2.20 | 65 2.56 | 2,5 .10 | 22 .87 | 0,2 .0079 |
| G 1/8 A | 14 .55 | 13,9 .55 | 15 .59 | 19 .75 | 1 .04 | 8,5 .33 | 0,1 .0039 |
| G 1/4 A | 18 .71 | 18,9 .74 | 20 .79 | 25 .98 | 1,5 .06 | 12,5 .49 | 0,1 .0039 |
| G 3/8 A | 22 .87 | 21,9 .86 | 23 .91 | 28 1.10 | 2 .08 | 12,5 .49 | 0,1 .0039 |
| G 1/2 A | 26 1.02 | 26,9 1.06 | 28 1.10 | 34 1.34 | 2,5 .10 | 15 .59 | 0,1 .0039 |
| G 3/4 A | 32 1.26 | 31,9 1.26 | 33 1.30 | 42 1.65 | 2,5 .10 | 16,5 .65 | 0,2 .0079 |
| G 1 A | 39 1.54 | 39,9 1.57 | 41 1.61 | 47 1.85 | 2,5 .10 | 19 .75 | 0,2 .0079 |
| G 1 1/4 A | 49 1.93 | 49,9 1.96 | 51 2.01 | 58 2.28 | 2,5 .10 | 21,1 .83 | 0,2 .0079 |
| G 1 1/2 A | 55 2.17 | 54,9 2.16 | 56 2.20 | 65 2.56 | 2,5 .10 | 22,5 .89 | 0,2 .0079 |

¹ Appendix A in the thread description does not apply to (female) threaded ports.



Port Dimensions for Fittings with Male Threaded Stud

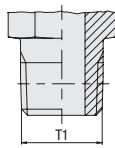

Dimensions

(mm/in)

| Thread T1 ¹ | D5 | D4 small _{min} | D4 wide _{min} | D2 _{+0.1 (UN/UNF: ±0.05)} | A1 _{max} | A2 _{+0.4} | B1 _{min} | B2 _{min} | W _{±1*} |
|------------------------|--------------|-------------------------|------------------------|------------------------------------|-------------------|--------------------|-------------------|-------------------|------------------|
| M 8 x 1 | 11,8 .46 | 14 .55 | 17 .67 | 9,1 .36 | 1 .04 | 1,6 .06 | 11,5 .45 | 10 .39 | 12 .47 |
| M 10 x 1 | 13,8 .54 | 16 .63 | 20 .79 | 11,1 .44 | 1 .04 | 1,6 .06 | 11,5 .45 | 10 .39 | 12 .47 |
| M 12 x 1,5 | 16,8 .66 | 19 .75 | 23 .91 | 13,8 .54 | 1,5 .06 | 2,4 .09 | 14 .55 | 11,5 .45 | 15 .59 |
| M 14 x 1,5 | 18,8 .74 | 21 .83 | 25 .98 | 15,8 .62 | 1,5 .06 | 2,4 .09 | 14 .55 | 11,5 .45 | 15 .59 |
| M 16 x 1,5 | 21,8 .86 | 24 .94 | 28 1.10 | 17,8 .70 | 1,5 .06 | 2,4 .09 | 15,5 .61 | 13 .51 | 15 .59 |
| M 18 x 1,5 | 23,8 .94 | 26 1.02 | 30 1.18 | 19,8 .78 | 2 .08 | 2,4 .09 | 17 .67 | 14,5 .57 | 15 .59 |
| M 22 x 1,5 | 26,8 1.06 | 29 1.14 | 33 1.30 | 23,8 .94 | 2 .08 | 2,4 .09 | 18 .71 | 15,5 .61 | 15 .59 |
| M 27 x 2 | 31,8 1.25 | 34 1.34 | 40 1.57 | 29,4 1.16 | 2 .08 | 3,1 .12 | 22 .87 | 19 .75 | 15 .59 |
| M 33 x 2 | 40,8 1.61 | 43 1.69 | 49 1.93 | 35,4 1.39 | 2,5 .10 | 3,1 .12 | 22 .87 | 19 .75 | 15 .59 |
| M 42 x 2 | 49,8 1.96 | 52 2.05 | 58 2.28 | 44,4 1.75 | 2,5 .10 | 3,1 .12 | 22,5 .89 | 19,5 .77 | 15 .59 |
| M 48 x 2 | 54,8 2.16 | 57 2.24 | 63 2.48 | 50,4 1.98 | 2,5 .10 | 3,1 .12 | 25 .98 | 22 .87 | 15 .59 |
| 7/16-20 UNF-2A | 14,4 .57 | 21 .83 | | 12,45 .49 | 1,6 .06 | 2,4 .09 | 14 .55 | 11,5 .45 | 12 .47 |
| 1/2-20 UNF-2A | 16 .63 | 23 .91 | | 14,05 .55 | 1,6 .06 | 2,4 .09 | 14 .55 | 11,5 .45 | 12 .47 |
| 9/16-18 UNF-2A | 17,6 .69 | 25 .98 | | 15,7 .62 | 1,6 .06 | 2,5 .10 | 15,5 .61 | 12,7 .50 | 12 .47 |
| 3/4-16 UNF-2A | 21,8 .86 | 30 1.18 | | 20,65 .81 | 2,4 .09 | 2,5 .10 | 17,5 .69 | 14,3 .56 | 15 .59 |
| 7/8-14 UNF-2A | 25,5 1.00 | 34 1.34 | | 24 .94 | 2,4 .09 | 2,5 .10 | 20 .79 | 16,7 .66 | 15 .59 |
| 1 1/16-12 UN-2A | 31,9 1.26 | 41 1.61 | | 29,2 1.15 | 2,4 .09 | 3,3 .13 | 23 .91 | 19 .75 | 15 .59 |
| 1 5/16-12 UN-2A | 38,2 1.50 | 49 1.93 | | 35,55 1.40 | 3,2 .13 | 3,3 .13 | 23 .91 | 19 .75 | 15 .59 |
| 1 5/8-12 UN-2A | 47,7 1.88 | 58 2.28 | | 43,55 1.71 | 3,2 .13 | 3,3 .13 | 23 .91 | 19 .75 | 15 .59 |
| 1 7/8-12 UN-2A | 54,8 2.16 | 65 2.56 | | 49,9 1.96 | 3,2 .13 | 3,3 .13 | 23 .91 | 19 .75 | 15 .59 |

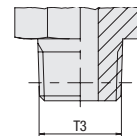
¹ Appendix -2B instead of -2A applies for (female) threaded ports.


Port Dimensions for Fittings with Male Threaded Stud



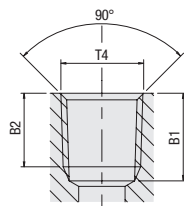
Taper Thread

National Pipe Thread (NPT)
ANSI/ASME B1.20.1-1983



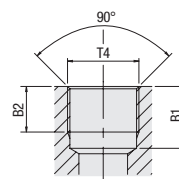
Taper Thread

Metric Taper Thread
DIN 3852-1 (Form C)
Whitworth Taper Pipe Thread
DIN 3852-2 (Form C)



Port (Taper Thread)

for Male Studs with National Pipe NPT Thread
ANSI/ASME B1.20.1-1983



Port (Parallel Thread)

for Male Studs with Metric Taper Thread
DIN 3852-1 (Form Z)
for Male Studs with Whitworth Taper Pipe Thread
DIN 3852-2 (Form Z)

Dimensions

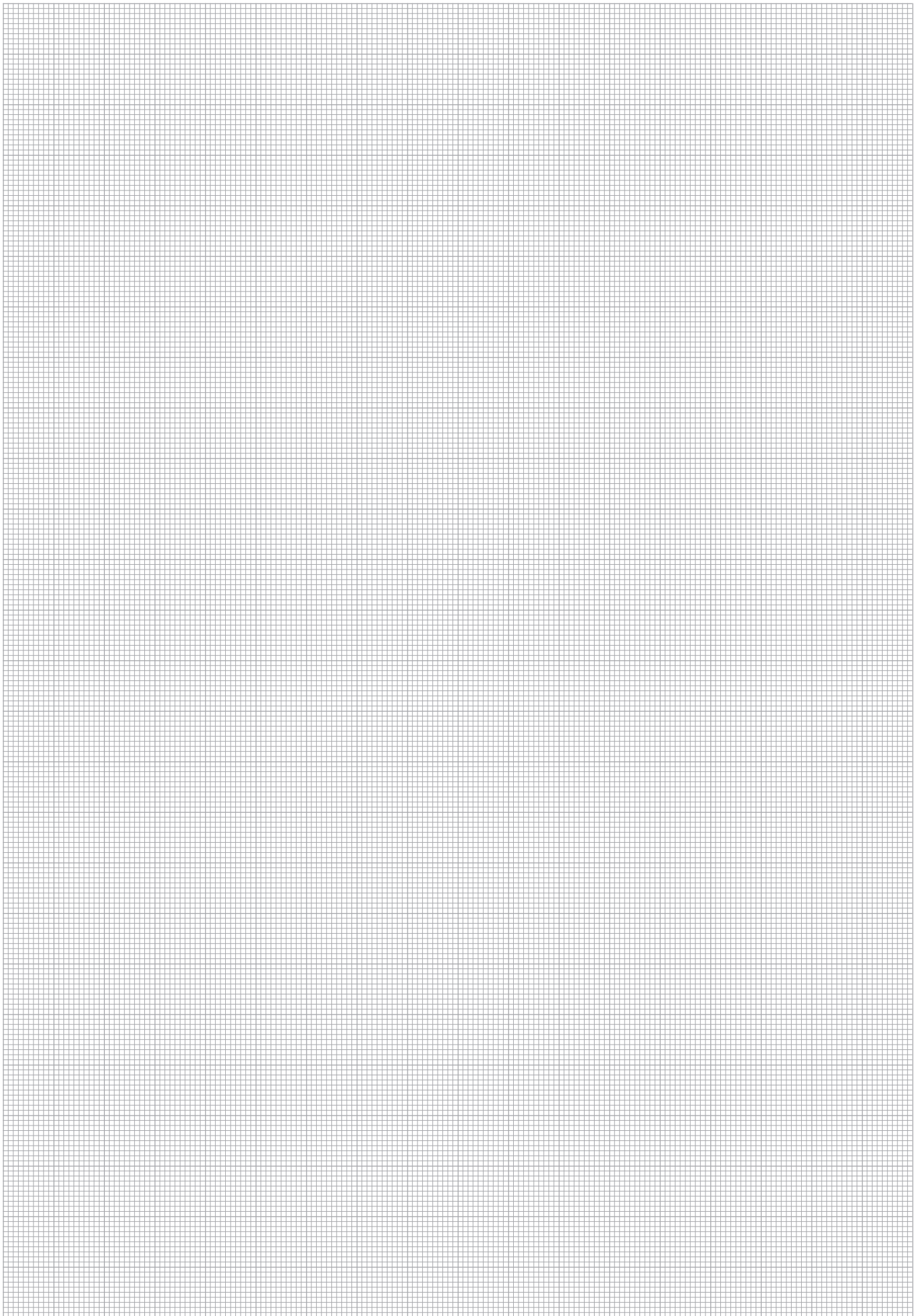
(mm/in)

| Thread T1 | Thread T3 | Thread T4 | B1 _{min} | B2 _{min} |
|----------------|-----------------|----------------|-------------------|-------------------|
| 1/8-27 NPT | | 1/8-27 NPT | | 6,9 .27 |
| 1/4-18 NPT | | 1/4-18 NPT | | 10 .39 |
| 3/8-18 NPT | | 3/8-18 NPT | | 10,3 .41 |
| 1/2-14 NPT | | 1/2-14 NPT | | 13,6 .54 |
| 3/4-14 NPT | | 3/4-14 NPT | | 14,1 .56 |
| 1-11.5 NPT | | 1-11.5 NPT | | 16,8 .66 |
| 1 1/4-11.5 NPT | | 1 1/4-11.5 NPT | | 17,3 .68 |
| 1 1/2-11.5 NPT | | 1 1/2-11.5 NPT | | 17,3 .68 |
| | M 8 x 1 keg. | M 8 x 1 | 10 .39 | 5,5 .22 |
| | M 10 x 1 keg. | M 10 x 1 | 10 .39 | 5,5 .22 |
| | M 12 x 1,5 keg. | M 12 x 1,5 | 13,5 .53 | 8,5 .33 |
| | M 14 x 1,5 keg. | M 14 x 1,5 | 13,5 .53 | 8,5 .33 |
| | M 16 x 1,5 keg. | M 16 x 1,5 | 13,5 .53 | 8,5 .33 |
| | M 18 x 1,5 keg. | M 18 x 1,5 | 13,5 .53 | 8,5 .33 |
| | M 20 x 1,5 keg. | M 20 x 1,5 | 15,5 .61 | 10,5 .41 |
| | M 22 x 1,5 keg. | M 22 x 1,5 | 15,5 .61 | 10,5 .41 |
| | R 1/8 keg. | Rp 1/8 | 8,5 .33 | 5,5 .22 |
| | R 1/4 keg. | Rp 1/4 | 12,5 .49 | 8,5 .33 |
| | R 3/8 keg. | Rp 3/8 | 12,5 .49 | 8,5 .33 |
| | R 1/2 keg. | Rp 1/2 | 16,5 .65 | 10,5 .41 |

Suitable liquid / plastic sealant required to achieve leak-tightness.

R

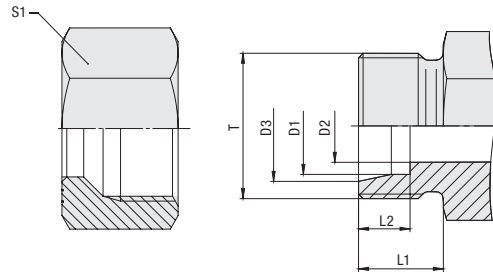




R



Dimensions of the 24° Conical Bore / Union Nut



| Series | Tube OD | | Dimensions | | | | | | |
|--------|------------------|------------|------------|------|------|------|------|------|--|
| | (mm/in) | (mm/in) | Thread T | D2 | D3 | L1 | L2 | S1 | |
| LL | 4 | M 8 x 1 | | 3 | 5 | 8 | 4 | 10 | |
| | .16 | | | .12 | .20 | .31 | .16 | .39 | |
| | 6 | M 10 x 1 | | 4,5 | 7,5 | 8 | 5,5 | 12 | |
| | .24 | | | .18 | .30 | .31 | .22 | .47 | |
| L | 8 | M 12 x 1,5 | | 6 | 9,5 | 9 | 5,5 | 14 | |
| | .31 | | | .24 | .37 | .35 | .22 | .55 | |
| L | 6 | M 12 x 1,5 | | 4 | 8,1 | 10 | 7 | 14 | |
| | .24 | | | .16 | .32 | .39 | .28 | .55 | |
| | 8 | M 14 x 1,5 | | 6 | 10,1 | 10 | 7 | 17 | |
| | .31 | | | .24 | .40 | .39 | .28 | .67 | |
| | 10 | M 16 x 1,5 | | 8 | 12,3 | 11 | 7 | 19 | |
| | .39 | | | .31 | .48 | .43 | .28 | .75 | |
| | 12 | M 18 x 1,5 | | 10 | 14,3 | 11 | 7 | 22 | |
| | .47 | | | .39 | .56 | .43 | .28 | .87 | |
| | 15 | M 22 x 1,5 | | 12 | 17,3 | 12 | 7 | 27 | |
| | .59 | | | .47 | .68 | .47 | .28 | 1.06 | |
| | 18 | M 26 x 1,5 | | 15 | 20,3 | 12 | 7,5 | 32 | |
| | .71 | | | .59 | .80 | .47 | .30 | 1.26 | |
| | 22 | M 30 x 2 | | 19 | 24,3 | 14 | 7,5 | 36 | |
| | .87 | | | .75 | .96 | .55 | .30 | 1.42 | |
| | 28 | M 36 x 2 | | 24 | 30,3 | 14 | 7,5 | 41 | |
| | 1.10 | | | .94 | 1.19 | .55 | .30 | 1.61 | |
| 35 | M 45 x 2 | | 30 | 38 | 16 | 10,5 | 50 | | |
| 1.38 | | | 1.18 | 1.50 | .63 | .41 | 1.97 | | |
| 42 | M 52 x 2 | | 36 | 45 | 16 | 11 | 60 | | |
| 1.65 | | | 1.42 | 1.77 | .63 | .43 | 2.36 | | |
| S | 6 | M 14 x 1,5 | | 4 | 8,1 | 12 | 7 | 17 | |
| | .24 | | | .16 | .32 | .47 | .28 | .67 | |
| | 8 | M 16 x 1,5 | | 5 | 10,1 | 12 | 7 | 19 | |
| | .31 | | | .20 | .40 | .47 | .28 | .75 | |
| | 10 | M 18 x 1,5 | | 7 | 12,3 | 12 | 7,5 | 22 | |
| | .39 | | | .28 | .48 | .47 | .30 | .87 | |
| | 12 | M 20 x 1,5 | | 8 | 14,3 | 12 | 7,5 | 24 | |
| | .47 | | | .31 | .56 | .47 | .30 | .94 | |
| | 14 ¹ | M 22 x 1,5 | | 10 | 16,3 | 14 | 8 | 27 | |
| | .55 ¹ | | | .39 | .64 | .55 | .31 | 1.06 | |
| | 16 | M 24 x 1,5 | | 12 | 18,3 | 14 | 8,5 | 30 | |
| | .63 | | | .47 | .72 | .55 | .33 | 1.18 | |
| | 20 | M 30 x 2 | | 16 | 22,9 | 16 | 10,5 | 36 | |
| | .79 | | | .63 | .90 | .63 | .41 | 1.42 | |
| 25 | M 36 x 2 | | 20 | 27,9 | 18 | 12 | 46 | | |
| .98 | | | .79 | 1.10 | .71 | .47 | 1.81 | | |
| 30 | M 42 x 2 | | 25 | 33 | 20 | 13,5 | 50 | | |
| 1.18 | | | .98 | 1.30 | .79 | .53 | 1.97 | | |
| 38 | M 52 x 2 | | 32 | 41 | 22 | 16 | 60 | | |
| 1.50 | | | 1.26 | 1.61 | .87 | .63 | 2.36 | | |

¹ Tube size is no longer covered by the applicable standard.



Standard Threads and Widths Across Flats for Fittings with Male Threaded Stud

| Series | Tube OD (mm) D1 | Male Stud | | Male Stud | | Union Nut | |
|--------|-----------------------|---------------------------------------|--------------------|---|--------------------|---------------------------------------|--------------------|
| | | Metric Parallel Thread Thread Size | Width Across Flats | Whitworth Parallel Pipe Thread Thread Size | Width Across Flats | Metric Parallel Thread Thread Size | Width Across Flats |
| L | 6 | M 10 x 1 | 14 | G 1/8 | 14 | M 12 x 1,5 | 14 |
| | .24 | | .55 | | .55 | | .55 |
| | 8 | M 12 x 1,5 | 17 | G 1/4 | 19 | M 14 x 1,5 | 17 |
| | .31 | | .67 | | .75 | | .67 |
| | 10 | M 14 x 1,5 | 19 | G 1/4 | 19 | M 16 x 1,5 | 19 |
| | .39 | | .75 | | .75 | | .75 |
| | 12 | M 16 x 1,5 | 22 | G 3/8 | 22 | M 18 x 1,5 | 22 |
| | .47 | | .87 | | .87 | | .87 |
| | 15 | M 18 x 1,5 | 24 | G 1/2 | 27 | M 22 x 1,5 | 27 |
| | .59 | | .94 | | 1.06 | | 1.06 |
| | 18 | M 22 x 1,5 | 27 | G 1/2 | 27 | M 26 x 1,5 | 32 |
| | .71 | | 1.06 | | 1.06 | | 1.26 |
| | 22 | M 26 x 1,5 ² | 32 | G 3/4 | 32 | M 30 x 2 | 36 |
| | .87 | | 1.26 | | 1.26 | | 1.42 |
| 28 | M 33 x 2 | 41 | G 1 | 41 | M 36 x 2 | 41 | |
| 1.10 | | 1.61 | | 1.61 | | 1.61 | |
| 35 | M 42 x 2 | 50 | G 1 1/4 | 50 | M 45 x 2 | 50 | |
| 1.38 | | 1.97 | | 1.97 | | 1.97 | |
| 42 | M 48 x 2 | 55 | G 1 1/2 | 55 | M 52 x 2 | 60 | |
| 1.65 | | 2.17 | | 2.17 | | 2.36 | |
| S | 6 | M 12 x 1,5 | 17 | G 1/4 | 19 | M 14 x 1,5 | 17 |
| | .24 | | .67 | | .75 | | .67 |
| | 8 | M 14 x 1,5 | 19 | G 1/4 | 19 | M 16 x 1,5 | 19 |
| | .31 | | .75 | | .75 | | .75 |
| | 10 | M 16 x 1,5 | 22 | G 3/8 | 22 | M 18 x 1,5 | 22 |
| | .39 | | .87 | | .87 | | .87 |
| | 12 | M 18 x 1,5 | 24 | G 3/8 | 22 | M 20 x 1,5 | 24 |
| | .47 | | .94 | | .87 | | .94 |
| | 14 ¹ | M 20 x 1,5 | 27 | G 1/2 | 27 | M 22 x 1,5 | 27 |
| | .55 ¹ | | 1.06 | | 1.06 | | 1.06 |
| | 16 | M 22 x 1,5 | 27 | G 1/2 | 27 | M 24 x 1,5 | 30 |
| | .63 | | 1.06 | | 1.06 | | 1.18 |
| | 20 | M 27 x 2 | 32 | G 3/4 | 32 | M 30 x 2 | 36 |
| | .79 | | 1.26 | | 1.26 | | 1.42 |
| | 25 | M 33 x 2 | 41 | G 1 | 41 | M 36 x 2 | 46 |
| | .98 | | 1.61 | | 1.61 | | 1.81 |
| 30 | M 42 x 2 | 50 | G 1 1/4 | 50 | M 42 x 2 | 50 | |
| 1.18 | | 1.97 | | 1.97 | | 1.97 | |
| 38 | M 48 x 2 | 55 | G 1 1/2 | 55 | M 52 x 2 | 60 | |
| 1.50 | | 2.17 | | 2.17 | | 2.36 | |

¹ Tube size is no longer covered by the applicable standard.

² M 27 x 2 according to ISO 6149.


Certificates and Approvals

TYPE APPROVAL CERTIFICATE

DNV·GL

Certificate No:
P-15101
 File No:
792.21
 Job Id:
262.1-016074-2

This is to certify:

That the Pipe Couplings, Bite and Compression Type

with type designation(s)
FI-GE, FI-WE, FI-TE, FI-LE, FI-G, FI-W, FI-T, FI-K, FI-GS, FI-WS, FI-ES, FI-AS, FI-WAS, FI-SN, FI-GA, FI-MA, FI-EMA, FI-EMAD, FI-RSW, FI-RST, FI-EGED, FI-SNV, FI-REDS, FI-EWD, FI-ETD, FI-ELD, FI-EGE, FI-REDS, FI-EW, FI-ET, FI-EL

Issued to
Walter Stauffenberg GmbH & Co. KG
Werdohl, Germany

is found to comply with
Det Norske Veritas' Rules for Classification of Ships Pt.4, Ch.6 "Piping Systems"
Det Norske Veritas' Standards for Certification 2.9 No. 5-792.20

Application :

May be used for: Hydraulic- and lubrication oil, fuel oil, compressed air, oxygen (see cert.), steam and condensate, fresh- and sea water

Temperature range: See certificate
Max. working press.: 100 to 800 bar (see certificate)
Sizes: Tube OD: 4 mm to 42 mm

This Certificate is valid until **2018-12-31**.

Issued at **Høvik** on **2014-11-28**

DNV GL local station: **Essen Business Support**

Approval Engineer: **Tom Berg-Nielsen**

for **DNV GL**
 Digitally Signed By: Saia, Giorgio
 Location: DNV GL Høvik, Norway
 Signing Date: 2014-11-28

Giorgio Saia on behalf of
Marianne Spæren Marveng
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed. If any person suffers loss or damage which is proven to have been caused by any negligent act or omission of the Society, then the Society shall pay compensation to such person for his proven direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question. The maximum compensation shall never exceed USD 2 million. In this provision the "Society" shall mean DNV GL AS as well as all its direct and indirect owners, affiliates, subsidiaries, directors, officers, employees, agents and any other person or entity acting on behalf of DNV GL AS.

R




**BUREAU
VERITAS**

 Marine & Offshore
Division

Certificate number: 42033/A0 BV

File number: ACM 135/2756

Product code: 2130H

This certificate is not valid when presented without the full attached schedule composed of 7 sections
www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to
WALTER STAUFFENBERG GmbH & CO. KG

Werdohl - GERMANY

for the type of product
SCREW COUPLINGS

PIPE COUPLINGS, BITE AND COMPRESSION Type Series LL/L/S

Requirements:

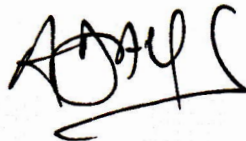
BUREAU VERITAS Rules for the Classification of Steel Ships
 BUREAU VERITAS Rules for the Classification of Offshore Units
 BUREAU VERITAS Rules for the Classification of Naval Ships
 BUREAU VERITAS Rules for the Classification of Yachts

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 10 Aug 2020
For BUREAU VERITAS,

At BV HAMBURG, on 10 Aug 2015,

Adama Diene




This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 October 2014

This certificate consists of 3 page(s)



Certificates and Approvals



Lloyd's Register

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

| | |
|--------------------|---|
| PRODUCER | Walter Stauffenberg Im Ehrenfeld 4 58791 Werdohl Germany |
| DESCRIPTION | Carbon steel (C15, C22, St35, S235JR2 and 11SMnPB30K+C) high pressure 24° compression couplings with or without seals sensitive to heat as per Stauff Catalogue 01/2015, |
| TYPES | STAUFF LL (very light gauge), L (light gauge) and S (heavy gauge) |
| APPLICATION | For pressure pipes in the marine, offshore and industrial environment. <u>Restrictions</u> - Bulkhead couplings are not to be used on watertight bulkheads, gastight bulkheads and for "A", "B" fire class divisions. - Couplings with seals sensitive to heat are not acceptable in the following locations : <ol style="list-style-type: none"> 1. Starting/control air and CO₂ systems. 2. Inside machinery spaces of category A or accommodation spaces for :- <ol style="list-style-type: none"> a. Main lines of inert gas systems. b. Pipe systems for flammable liquids including corresponding vent and sounding pipes. 3. Fire main, water spray and sprinkler systems or similar which are not always filled with water. |

| | |
|------------------------|----------------|
| Certificate No. | 15/20081 |
| Issue Date | 19 August 2015 |
| Expiry Date | 18 August 2020 |
| Sheet | 1 of 2 |

Torsten Schroeder

Torsten Schroeder
Hamburg Technical Support Office
Lloyd's Register EMEA

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R



РОССИЙСКИЙ МОРСКОЙ РЕГИСТР СУДОХОДСТВА
RUSSIAN MARITIME REGISTER OF SHIPPING

6.8.3



СВИДЕТЕЛЬСТВО О ТИПОВОМ ОДОБРЕНИИ
TYPE APPROVAL CERTIFICATE

Изготовитель
Manufacturer

Walter Stauffenberg GmbH & Co. KG GmbH

Адрес
Address

Im Ehrenfeld 4, 58791 Werdohl, Germany.

Изделие*
Product*

Трубные муфтовые и обжимные соединения типов:
FI-GE, FI-WE, FI-TE, FI-LE, FI-G, FI-W, FI-T, FI-K, FI-GS, FI-WS, FI-ES, FI-AS,
FI-WAS, FI-SN, FI-GA, FI-MA, FI-EMA, FI-EMAD, FI-RSW, FI-RST, FI-EGED,
FI-SNV, FI-RESD, FI-EWD, FI-ETD, FI-ELD, FI-EGE, FI-REDS, FI-EW, FI-ET, FI-EL.

Pipe couplings, bite and compression type:
FI-GE, FI-WE, FI-TE, FI-LE, FI-G, FI-W, FI-T, FI-K, FI-GS, FI-WS, FI-ES, FI-AS,
FI-WAS, FI-SN, FI-GA, FI-MA, FI-EMA, FI-EMAD, FI-RSW, FI-RST, FI-EGED,
FI-SNV, FI-RESD, FI-EWD, FI-ETD, FI-ELD, FI-EGE, FI-REDS, FI-EW, FI-ET, FI-EL.

Код номенклатуры 08030710
Code of nomenclature

На основании освидетельствования и проведенных испытаний удостоверяется, что вышеупомянутое(ые) изделие(я) удовлетворяет(ют) требованиям Российского морского регистра судоходства.
This is to certify that on the basis of the survey and tests carried out the above mentioned item(s) complies(ly) with the requirements of Russian Maritime Register of Shipping.

Часть VIII Системы и трубопроводы "Правил классификации и постройки морских судов" (2015).
Part VIII Systems and piping of "Rules for the Classification and construction of Sea-Going Ships" (2015).

Настоящее Свидетельство о типовом одобрении действительно до 18.03.2020
This Type Approval Certificate is valid until

Настоящее Свидетельство о типовом одобрении теряет силу в случаях, установленных в Правилах технического наблюдения за постройкой судов и изготовлением материалов и изделий для судов.

This Type Approval Certificate becomes invalid in cases stipulated in Rules for the Technical Supervision during Construction of Ships and Manufacture of Shipboard Materials and Products.

Дата выдачи 18.03.2015
Date of issue

№ 15.40023.250

Российский морской регистр судоходства
Russian Maritime Register of Shipping



Подпись
(signature)

Морозов В.В. / V. Morozov
(фамилия, инициалы)
(name)

*Дополнительную информацию смотри на обороте.
Additional information see overleaf.





| | |
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| Product-Specific Abbreviations | 300 |
|---------------------------------------|------------|

| | |
|---------------------------------|------------|
| Global Contact Directory | 302 |
|---------------------------------|------------|



Product-Specific Abbreviations

| Abbreviation | Product Category | Product Description | Page |
|--------------------|--|---|------|
| FI-AB | Connecting Parts | 37° Flared Tube Fitting Set | 35 |
| FI-AR | Connecting Parts | STAUFF Form Adaptor Ring | 30 |
| FI-AS | Weld Fittings | Straight Weld Fitting | 98 |
| FI-ASV | Weld Fittings | Straight Weld Fitting for Tubes | 104 |
| FI-BA | Connecting Parts | 24°/37° Flared Cone Adaptor with O-Rings | 32 |
| FI-BH | Connecting Parts | Support Sleeve for 37° Flared Tube Fittings | 33 |
| FI-BM | Connecting Parts | Union Nut for 37° Flared Tube Fittings | 34 |
| FI-BUZ | Spare Parts / Accessories | Blanking Plug with Sealing Edge | 203 |
| FI-DGWESV-...-M-WD | Swivel Fittings | Swivel Elbow with Metric Parallel Thread / Profile Sealing Ring | 173 |
| FI-DGWESV-...-R-WD | Swivel Fittings | Swivel Elbow with Whitworth Parallel Pipe Thread (BSPP) / Profile Sealing Ring | 172 |
| FI-DIR | Spare Parts / Accessories | Retaining Ring with Captive Seal | 213 |
| FI-DKI | Spare Parts / Accessories | Internal Metallic Sealing Ring | 214 |
| FI-DKR | Spare Parts / Accessories | External Metallic Sealing Ring | 212 |
| FI-DS | Connecting Parts | Double Edge Cutting Ring | 26 |
| FI-EGE-...-M | Standpipe Fittings | Straight Male Stud Standpipe Fitting with Metric Parallel Thread / Metallic Sealing Edge | 133 |
| FI-EGE-...-M-WD | Standpipe Fittings | Straight Male Stud Standpipe Fitting with Metric Parallel Thread / Profile Sealing Ring | 135 |
| FI-EGE-...-N | Standpipe Fittings | Straight Male Stud Standpipe Fitting with NPT Thread | 136 |
| FI-EGE-...-R | Standpipe Fittings | Straight Male Stud Standpipe Fitting with Whitworth Parallel Pipe Thread (BSPP) / Metallic Sealing Edge | 132 |
| FI-EGE-...-R-WD | Standpipe Fittings | Straight Male Stud Standpipe Fitting with Whitworth Parallel Pipe Thread (BSPP) / Profile Sealing Ring | 134 |
| FI-EGED-...-M-WD | Female Stud / Gauge Fittings | Straight Male Stud Fitting with 24° Taper / O-Ring with Metric Parallel Thread / Profile Sealing Ring | 117 |
| FI-EGED-...-R-WD | Female Stud / Gauge Fittings | Straight Male Stud Fitting with 24° Taper / O-Ring with Whitworth Parallel Pipe Thread (BSPP) / Profile Sealing Ring | 116 |
| FI-EL | Standpipe Fittings | Adjustable Standpipe Barrel Tee | 144 |
| FI-ELD | Fittings with 24° Taper / O-Ring (DKO) | Adjustable Barrel Tee with 24° Taper / O-Ring | 129 |
| FI-EMA-...-R | Female Stud / Gauge Fittings | Gauge Standpipe Fitting with Female Whitworth Parallel Pipe Thread (BSPP) / Internal Metallic Sealing Ring | 113 |
| FI-EMAD-...-R | Female Stud / Gauge Fittings | Gauge Fitting with 24° Taper / O-Ring and Female Whitworth Parallel Pipe Thread (BSPP) / Internal Metallic Sealing Ring | 112 |
| FI-ES | Bulkhead Fittings | Straight Bulkhead Weld Fitting | 94 |
| FI-ET | Standpipe Fittings | Adjustable Standpipe Branch Tee | 143 |
| FI-ETD | Fittings with 24° Taper / O-Ring (DKO) | Adjustable Branch Tee with 24° Taper / O-Ring | 128 |
| FI-EVD | Fittings with 24° Taper / O-Ring (DKO) | Adjustable Elbow (45°) with 24° Taper / O-Ring | 127 |
| FI-EW | Standpipe Fittings | Adjustable Standpipe Elbow | 142 |
| FI-EWD | Fittings with 24° Taper / O-Ring (DKO) | Adjustable Elbow (90°) with 24° Taper / O-Ring | 126 |
| FI-FB | Assembly Tools / Devices | STAUFF Form Clamping Jaws | 237 |
| FI-FK | Assembly Tools / Devices | Manual Cutting Ring Final Assembly Stud | 218 |
| FI-FST | Assembly Tools / Devices | STAUFF Form Tube Shapers | 238 |
| FI-G | Tube Fittings / Unions | Straight Union | 82 |
| FI-G | Tube Fittings / Unions | Straight Reducer | 83 |
| FI-GA-...-M | Female Stud / Gauge Fittings | Straight Female Stud Fitting with Female Metric Parallel Thread | 109 |
| FI-GA-...-N | Female Stud / Gauge Fittings | Straight Female Stud Fitting with NPT Thread | 110 |
| FI-GA-...-R | Female Stud / Gauge Fittings | Straight Female Stud Fitting with Female Whitworth Parallel Pipe Thread (BSPP) | 108 |
| FI-GE-...-M | Male Stud Fittings | Straight Male Stud Fitting with Metric Parallel Thread / Metallic Sealing Edge | 42 |
| FI-GE-...-Mk | Male Stud Fittings | Straight Male Stud Fitting with Metric Taper Thread | 56 |
| FI-GE-...-M-OR | Male Stud Fittings | Straight Male Stud Fitting with Metric Parallel Thread / O-Ring | 52 |
| FI-GE-...-M-WD | Male Stud Fittings | Straight Male Stud Fitting with Metric Parallel Thread / Profile Sealing Ring | 48 |
| FI-GE-...-N | Male Stud Fittings | Straight Male Stud Fitting with NPT Thread | 58 |
| FI-GE-...-R | Male Stud Fittings | Straight Male Stud Fitting with Whitworth Parallel Pipe Thread (BSPP) / Metallic Sealing Edge | 38 |
| FI-GE-...-R-DF | Male Stud Fittings | Straight Male Stud Fitting with BSPP Thread / 60° Conical Bore / Sealing Surface for Gaskets | 50 |
| FI-GE-...-RK | Male Stud Fittings | Straight Male Stud Fitting with Whitworth Taper Pipe Thread (BSPT) | 54 |
| FI-GE-...-R-WD | Male Stud Fittings | Straight Male Stud Fitting with Whitworth Parallel Pipe Thread (BSPP) / Profile Sealing Ring | 44 |
| FI-GE-...-U | Male Stud Fittings | Straight Male Stud Fitting with UN/UNF / Thread O-Ring | 60 |
| FI-GP | Assembly Tools / Devices | Support Plate for Machine-Assisted Assembly | 223 |
| FI-GP-PRC | Assembly Tools / Devices | Support Plate for Machine-Assisted Assembly | 228 |
| FI-GS | Bulkhead Fittings | Straight Bulkhead Fitting | 92 |
| FI-ID | Assembly Tools / Devices | STAUFF Form Internal Tube Supports | 238 |
| FI-K | Tube Fittings / Unions | Equal Cross | 89 |
| FI-KB | Assembly Tools / Devices | Clamping Jaws for 37° Flaring | 229 |
| FI-KR | Spare Parts / Accessories | Retaining Ring (Small) | 215 |
| FI-LE-...-M | Male Stud Fittings | Male Stud Barrel Tee with Metric Parallel Thread / Metallic Sealing Edge | 75 |
| FI-LE-...-Mk | Male Stud Fittings | Male Stud Barrel Tee with Metric Taper Thread | 77 |
| FI-LE-...-N | Male Stud Fittings | Male Stud Barrel Tee with NPT Thread | 78 |
| FI-LE-...-R | Male Stud Fittings | Male Stud Barrel Tee with Whitworth Parallel Pipe Thread (BSPP) / Metallic Sealing Edge | 74 |
| FI-LE-...-RK | Male Stud Fittings | Male Stud Barrel Tee with Whitworth Taper Pipe Thread (BSPT) | 76 |
| FI-LEE-...-M-OK | Fittings with Lock Nut | Adjustable Male Stud Barrel Tee with Lock Nut and Metric Parallel Thread / O-Ring and Retaining Ring (Small) | 151 |
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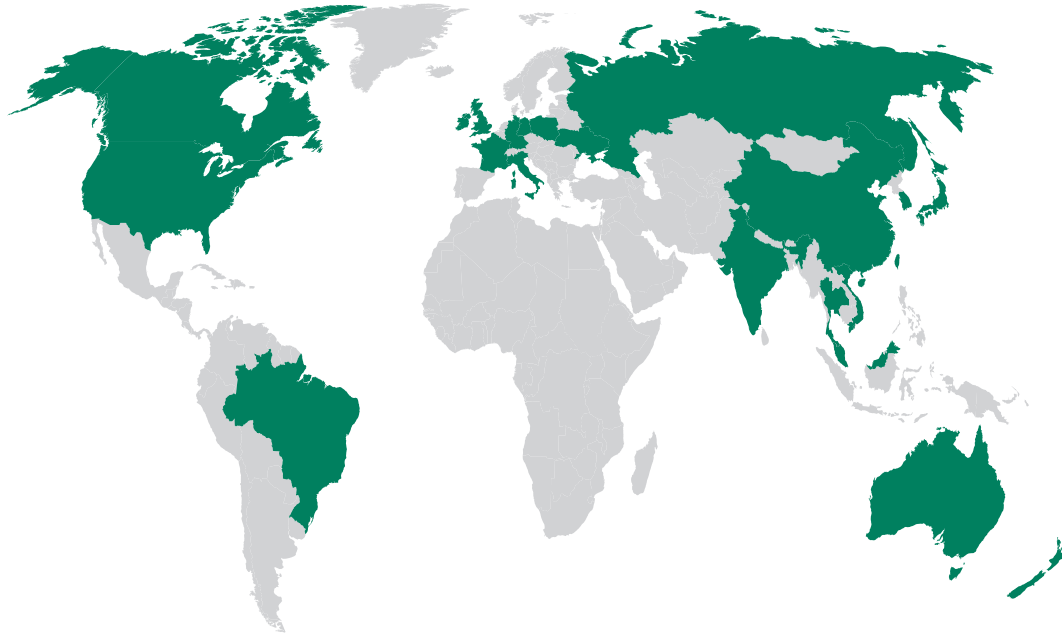
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Introduction

System Overview

Connecting Parts

Male Stud Fittings

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Standpipe Fittings

Fittings with Lock Nut

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Swivel Fittings

Hydraulic Valves

Custom-Designed Solutions

Spare Parts / Accessories

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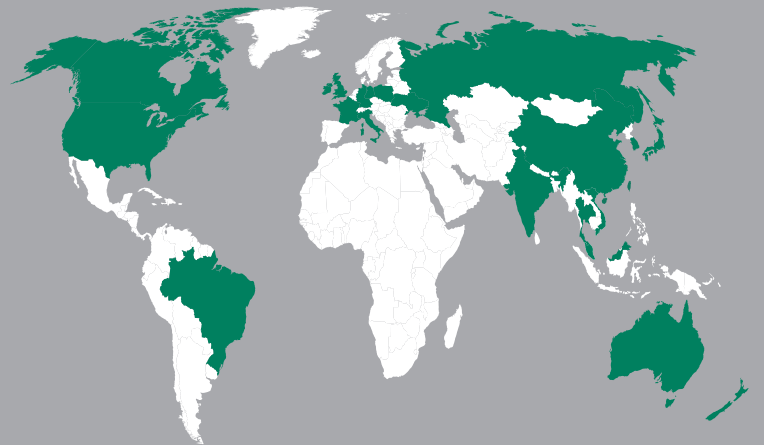
Assembly Instructions

Technical Appendix

Appendix



Catalogue 2 STAUFF Connect



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