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US Product Information Centre
Toll-free number: 1-800-27 27 537

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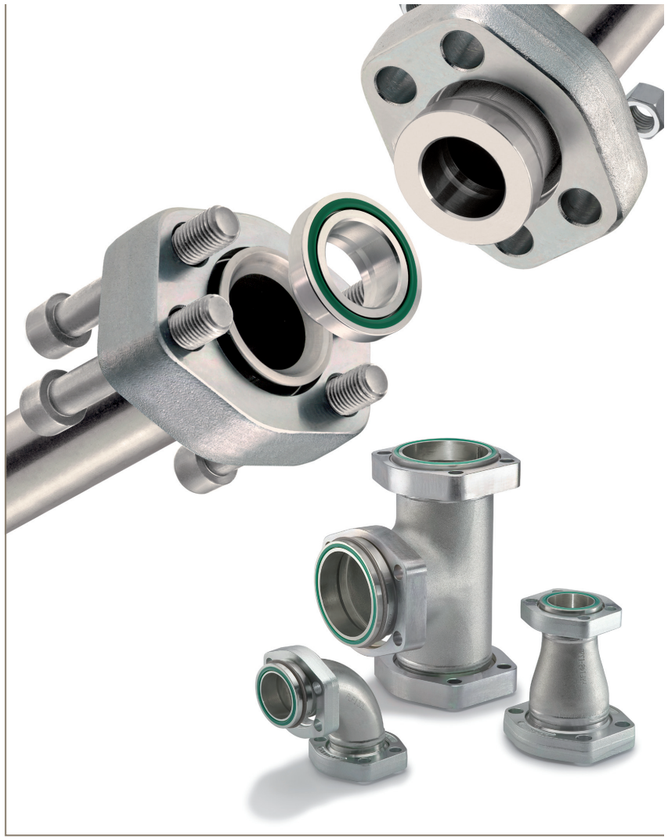
Parflange® F37 for pipe and tube connections











Parflange® F37 for pipe and tube connections



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Approval and Certification requirements

Note! Customer has to specify needed certifications, classifications, testing and inspection requirements precisely when requesting quotation/placing an order.

For your safety!

Under certain circumstances, tube fittings can be subjected to extreme loadings such as vibration and uncontrolled pressure peaks.

Only by using genuine Parker components and following Parker assembly instructions can you be assured of the reliability and safety of the products and their conformity to the applicable standards.

Failure to follow this rule can adversely affect the functional safety and reliability of products, cause personal injury, property damage, and result in loss of your guarantee rights.

Subject to alteration

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Parker's Motion & Control Technologies

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further info call 00800 27 27 5374



Aerospace
Key Markets
Aftermarket services
Commercial transports
Engines
General & business aviation
Helicopters
Launch vehicles
Military aircraft
Missiles
Power generation
Regional transports
Unmanned aerial vehicles

Key Products
Control systems & actuation products
Engine systems & components
Fluid conveyance systems & components
Fluid metering, delivery & atomization devices
Fuel systems & components
Fuel tank inerting systems
Hydraulic systems & components
Thermal management
Wheels & brakes



Climate Control
Key Markets
Agriculture
Air conditioning
Construction Machinery
Food & beverage
Industrial machinery
Life sciences
Oil & gas
Precision cooling
Process
Refrigeration
Transportation

Key Products
Accumulators
Advanced actuators
CO_2 controls
Electronic controllers
Filter driers
Hand shut-off valves
Heat exchangers
Hose & fittings
Pressure regulating valves
Refrigerant distributors
Safety relief valves
Smart pumps
Solenoid valves
Thermostatic expansion valves



Electromechanical
Key Markets
Aerospace
Factory automation
Life science & medical
Machine tools
Packaging machinery
Paper machinery
Plastics machinery & converting
Primary metals
Semiconductor & electronics
Textile
Wire & cable

Key Products
AC/DC drives & systems
Electric actuators, gantry robots & slides
Electrohydrostatic actuation systems
Electromechanical actuation systems
Human machine interface
Linear motors
Stepper motors, servo motors, drives & controls
Structural extrusions



Filtration
Key Markets
Aerospace
Food & beverage
Industrial plant & equipment
Life sciences
Marine
Mobile equipment
Oil & gas
Power generation & renewable energy
Process
Transportation
Water Purification

Key Products
Analytical gas generators
Compressed air filters & dryers
Engine air, coolant, fuel & oil filtration systems
Fluid condition monitoring systems
Hydraulic & lubrication filters
Hydrogen, nitrogen & zero air generators
Instrumentation filters
Membrane & fiber filters
Microfiltration
Sterile air filtration
Water desalination & purification filters & systems



Fluid & Gas Handling
Key Markets
Aerial lift
Agriculture
Bulk chemical handling
Construction machinery
Food & beverage
Fuel & gas delivery
Industrial machinery
Life sciences
Marine
Mining
Mobile
Oil & gas
Renewable energy
Transportation

Key Products
Check valves
Connectors for low pressure fluid conveyance
Deep sea umbilicals
Diagnostic equipment
Hose couplings
Industrial hose
Mooring systems & power cables
PTFE hose & tubing
Quick couplings
Rubber & thermoplastic hose
Tube fittings & adapters
Tubing & plastic fittings



Hydraulics
Key Markets
Aerial lift
Agriculture
Alternative energy
Construction machinery
Forestry
Industrial machinery
Machine tools
Marine
Material handling
Mining
Oil & gas
Power generation
Refuse vehicles
Renewable energy
Truck hydraulics
Turf equipment

Key Products
Accumulators
Cartridge valves
Electrohydraulic actuators
Human machine interfaces
Hybrid drives
Hydraulic cylinders
Hydraulic motors & pumps
Hydraulic systems
Hydraulic valves & controls
Hydrostatic steering
Integrated hydraulic circuits
Power take-offs
Power units
Rotary actuators
Sensors



Pneumatics
Key Markets
Aerospace
Conveyor & material handling
Factory automation
Life science & medical
Machine tools
Packaging machinery
Transportation & automotive

Key Products
Air preparation
Brass fittings & valves
Manifolds
Pneumatic accessories
Pneumatic actuators & grippers
Pneumatic valves & controls
Quick disconnects
Rotary actuators
Rubber & thermoplastic hose & couplings
Structural extrusions
Thermoplastic tubing & fittings
Vacuum generators, cups & sensors



Process Control
Key Markets
Alternative fuels
Biopharmaceuticals
Chemical & refining
Food & beverage
Marine & shipbuilding
Medical & dental
Microelectronics
Nuclear Power
Offshore oil exploration
Oil & gas
Pharmaceuticals
Power generation
Pulp & paper
Steel
Water/wastewater

Key Products
Analytical Instruments
Analytical sample conditioning products & systems
Chemical injection fittings & valves
Fluoropolymer chemical delivery fittings, valves & pumps
High purity gas delivery fittings, valves, regulators & digital flow controllers
Industrial mass flow meters/controllers
Permanent no-weld tube fittings
Precision industrial regulators & flow controllers
Process control double block & bleeds
Process control fittings, valves, regulators & manifold valves



Sealing & Shielding
Key Markets
Aerospace
Chemical processing
Consumer
Fluid power
General industrial
Information technology
Life sciences
Microelectronics
Military
Oil & gas
Power generation
Renewable energy
Telecommunications
Transportation

Key Products
Dynamic seals
Elastomeric o-rings
Electro-medical instrument design & assembly
EMI shielding
Extruded & precision-cut, fabricated elastomeric seals
High temperature metal seals
Homogeneous & inserted elastomeric shapes
Medical device fabrication & assembly
Metal & plastic retained composite seals
Shielded optical windows
Silicone tubing & extrusions
Thermal management
Vibration dampening

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Tube clamps 207

Pipes and tubes 241

High Pressure Connectors Europe

The Tube Fittings Authority:

Performance Plus

Since 1929, Parker Hannifin Corporation has served the marketplace with dependable fluid power technology. Today, Parker offers more than 100,000 quality products for a broad range of industries and applications. No other manufacturer presents a product line as broad as Parker's, nor an expertise as far-reaching in hydraulic and pneumatic systems and components. Much of that expertise originates with Parker's precision-made tube fittings, which were among the first products manufactured by the company. As such, they reflect Parker's ongoing commitment to excellence.

With more than seventy years of experience in product design, engineering, applications technology and manufacturing, the High Pressure Connectors Europe division holds a leadership position few other manufacturers can claim. This leadership is further heightened and enhanced by the sharing of technology only possible in Parker's corporate family.

Topflight Experience

Parker has used the background data and knowledge gained from important industrial, mobile, offshore and other applications to create the broadest and best performing line of standard tube fittings in the world.

Why is Parker a topflight manufacturer of fittings?

There are many reasons, but at the heart is the design and manufacturing excellence that goes into every Parker product.

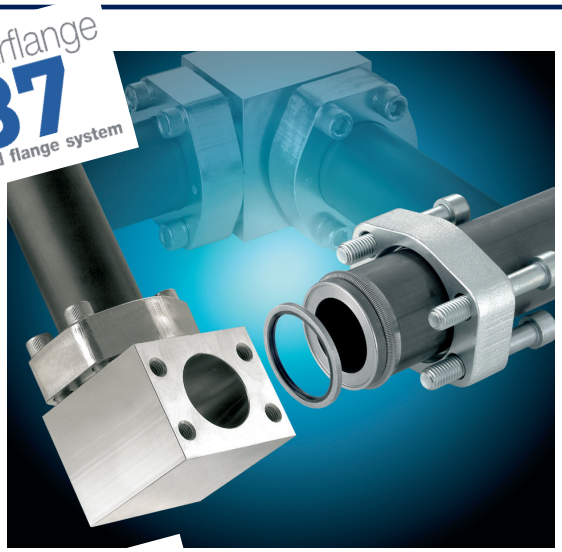
Worldwide standardizing activities

The Parker Fluid Connectors Group supports the national and international standardizing activities. Experienced engineers from certain countries and Divisions give their input to national committees like SAE, BS, and DIN committees in cooperation with the users of the products. As a result, many ISO Fluid Connector standards have been published. These ISO standards are the platform for the international trading, interchangeability and availability that is necessary for all globally operating companies using fluid power technology.





Parflange F37 non-welded flange system





ace solutions™ advanced connection enhancements





NEW GENERATION EO- Plus EO2- Plus EO2- FORM HIGH PERFORMANCE TUBE FITTINGS

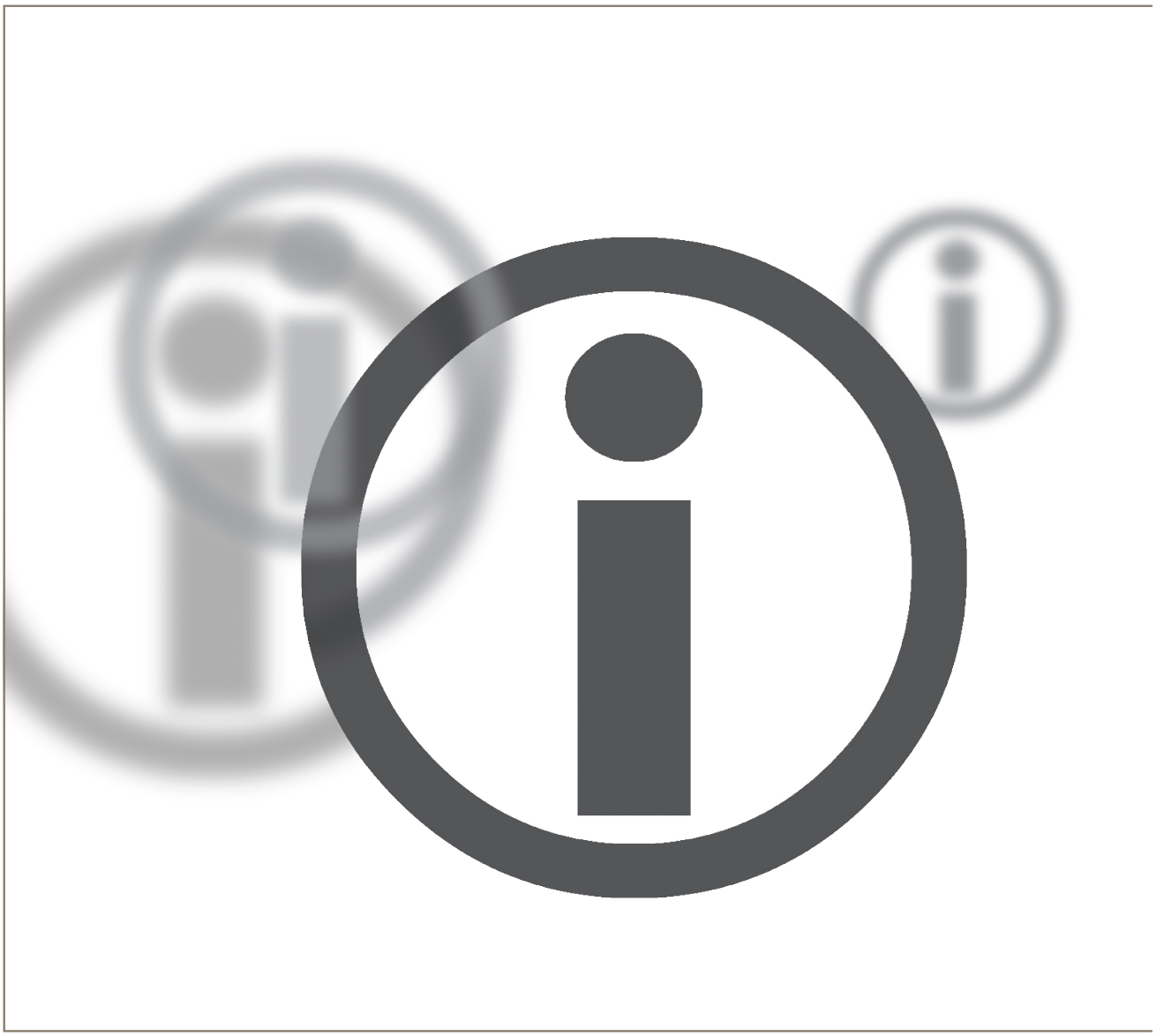


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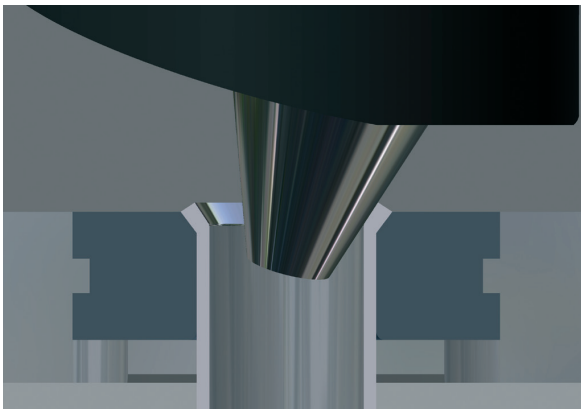


General information

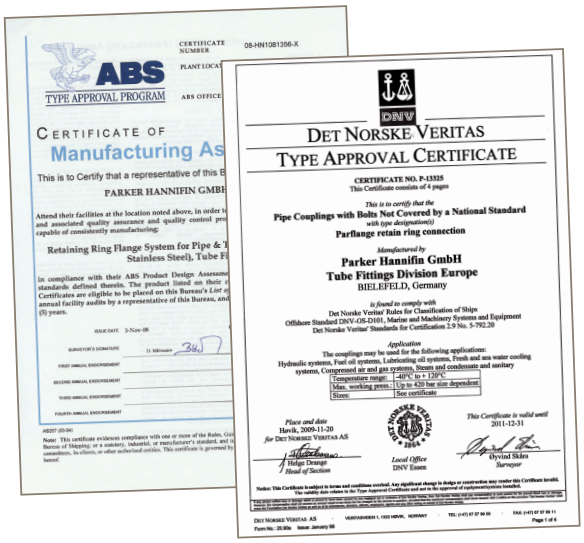
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Parflange® F37 technology

Parflange® technology
Parker is the inventor of the Parflange® system and knows well how to deal with flared tubes and flanged connectors. The excellent sealing performance and the high mechanical strength of Parflange® technology are achieved by continuous orbital tube forming. Proven millions of times, this connector system is backed by decades of experience. The Parflange® system belongs to Parker's leak-free Dry Technology programme. Dry Technology stands for leak-free systems with soft sealing at every connection point.



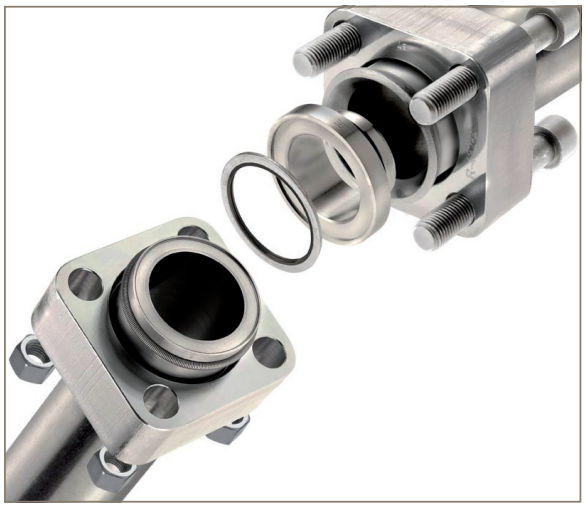
Parflange® F37
The Parflange® F37 flanged connector system is utilising this orbital tube forming technology for tubing assemblies from 16 to 168.3 mm (1/2" to 6" Flanges) outside diameter.
It is intended for tube wall thickness up to 9 mm and pressure ratings up to 420 bar.
For those connections, where there is no possibility to assemble a pre-flared tube or where manufacturing is limited, Parker provides the F37 Retaining Ring System. This System utilizes a Retaining Ring for flange retention along with a highly-engineered seal carrier for leak free performance. It is available as a high pressure version from 1 1/2" to 10" and as a newly developed SAE 1000 (50-70 bar) version.
The Parflange® F37 system corresponds to hole patterns according to ISO 6162-1; SAE J518; bore pattern 3000 (code 61), ISO 6162-2; bore pattern 6000 (code 62) and also ISO 6164 bore pattern.



It is type approved by DNV, ABS and other major classification companies.

Protected from corrosion and even Cr(VI)-free
As a manufacturer of large flange connectors, Parker is employing Cr(VI)-free corrosion protection on Parflange F37, as it has already done with its other Fluid Connector Products. The removal of Cr(VI) reflects Parker's ongoing commitment to an environmentally clean and safe production process.

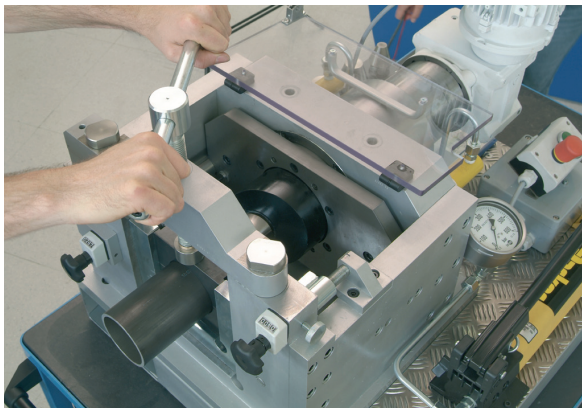
Different Sealing Solution
The F37 seal was developed especially for use with SAE flanges. These special seals guarantee high stability of form.
Compared to standard O-Rings, their mechanical properties prevent gap extrusion, even when the flanges "breathe" under pressure. The special profile of the F37 seal is ideally adapted to higher pressures or unsuitable surface finish of the flanges.
As an alternative, connectors can be equipped with bonded seal rings.

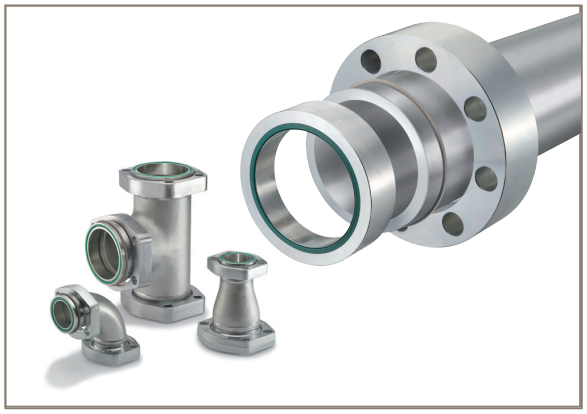


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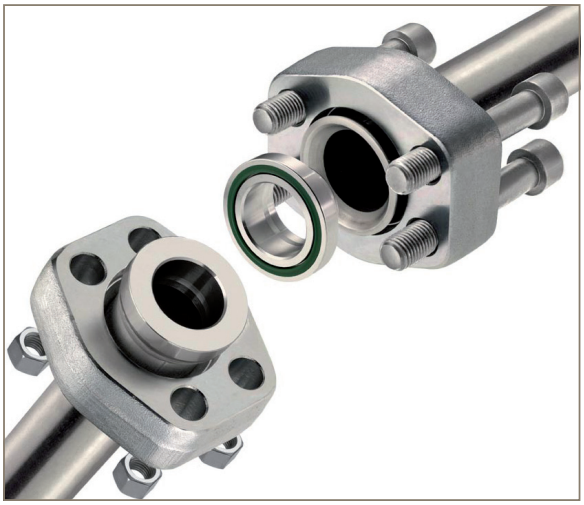
Parflange® F37 technology

Flaring Machine (Adjustable)
For smaller tube connecting projects such as the on-site maintenance of, for example, drilling platforms or ships, the Parflange® ECO for processing steel and stainless steel tube is available.
The machine works to the Parflange® process, proven millions of times over, affording maximum mechanical accuracy and reliability. It does not require any complicated programming or operation to manufacture rapidly smaller quantities up to 168.3 mm outside diameter. The maximum capacity of the machine is around 5 mm wall thickness for a 165 mm tube at a remarkably short cycle time of 30 to 60 seconds for the flaring and 1 to 2 minutes for the total operation. Other tube diameter allow even thicker tube wall.





Complete range for virtually all diameters
The F37 system complements the EO-2 soft sealing technology for small tube diameters; it also complements the proven Parflange® programme for the SAE product range. It offers the complete range of connectors, flange-to-flange, L-and T-Block connectors, flange-to-port, male and female thread flanges, flange bends, reducer flanges, bulkhead flanges and manifolds on request.



The F37-Programme – a savings programme
F37 is the way to reduce manufacturing times enormously. By comparing welded connections with Parker flange connector systems, significant opportunities for cost savings become immediately obvious
1. Cutting and deburring tubes
2. Tube preparation for the “connecting process“
3. Welding and/or assembling
4. Inspection (X-ray) of welded connectors
5. Flushing the connected tubes
6. Applying corrosion protection

In comparison with this, weld-free tube forming save time and costs. Expensive cleaning and X-raying of the tube connector become immediately things of the past. The manufacturing time for a tube connector quickly reduces by more than half in comparison with conventional welding. To make this clear, Parker has developed a calculator which, on the basis of the individual input data, determines the exact cost saving from

General information

Parflange® F37 technology

using Parflange® F37 and/or the high-performance flange connectors. Parker flange connector systems accommodate even higher requirements, especially those from the offshore industry, shipbuilding, heavy machinery construction and press manufacture, as well as from mining, recycling plants and mobile machinery; overall in power piping systems.

Personnel and environment-friendly
By comparing the individual operations for a welded line with Parker flanges connected lines, significant cost savings opportunities become immediately obvious. No vapours putting health at risk are released, in contrast to conventional welding processes. Consequently, usage is possible in locations with high requirements such as, for example, offshore oil platforms. In addition to this flaring machine design errors in the preparation of flanges are virtually unknown. Stress corrosion cracking generated during welding operations is history and the life of the finished tubing system is increased. Cold formed Parflange® technologies save power and energy compared to welding and require neither degreasers nor anti-corrosion agents. When galvanized tubes are used, post-galvanization can be omitted because the zinc-coating is not impaired by flaring. Parker flange connector components are delivered in state of the art Cr(VI)-free surfaces.

We deliver all the component parts securely packed to the required location. Reliable delivery on the date advised. And then we come to professional assembly – our specialists will willingly take it on for you. After testing and a trial run, you can press the start button to make your production a success.

Principles account for success
The concept of this system is the customer interaction with advice, design, preassembly (with fittings, flanges and machined tubes), delivery and installation as a complete package cannot be beaten Supportive planning, high-quality products and safe working processes offer the ultimate synergy in time and cost saving. And of course, individual Piping Solutions principles are also available to you.

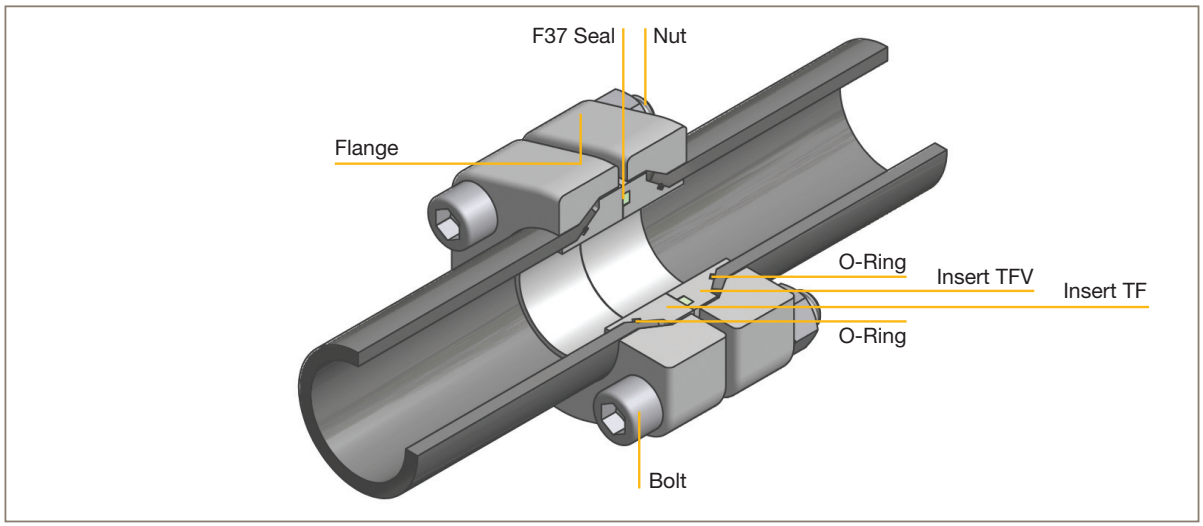
The Parker Piping Solutions concept principles:	
Advise	**Briefing/ Design discussion**
Design	**Tubing layout Tube dimensioning Drawings Documentation**
Pre-assemble	**Tube bending Flaring Tube cleaning**
Deliver	**Assemble/dispatch Documentation**
Install	**Manufacturing On site management On site assembly Inspect and wash Documentation**

Feature	Customer Value
No welding	- Reduced preparation time per joint
	- No costly inspection of welds (X-ray)
No post-weld cleaning	- No acid cleaning costs
	- No waste cleaning costs
	- No safety risk
	- Environmentally friendly
No welding stress corrosion possible	- Maximum piping lifetime
	- Reduced maintenance costs
No „hot work“ permit required	- Operation can take place in areas with fire risk without interruption of production
	- Reduced downtime costs
	- Higher level of safety
Work shop prefabrication	- High quality joints with better accuracy due to workshop conditions
	- Minimized need for on-site work
	- Shorter installation time
	- Shorter maintenance/downtime
	- Shorter total project time
Cleanliness	- Minimized need for repair and replacement of hydraulic system components such as pumps, cylinders,…
	- Reduced overall flushing time and costs
Easy dismantling and reassembling	- Quicker, easier and more flexible installation
	- Reduced downtime costs for maintenance and repair

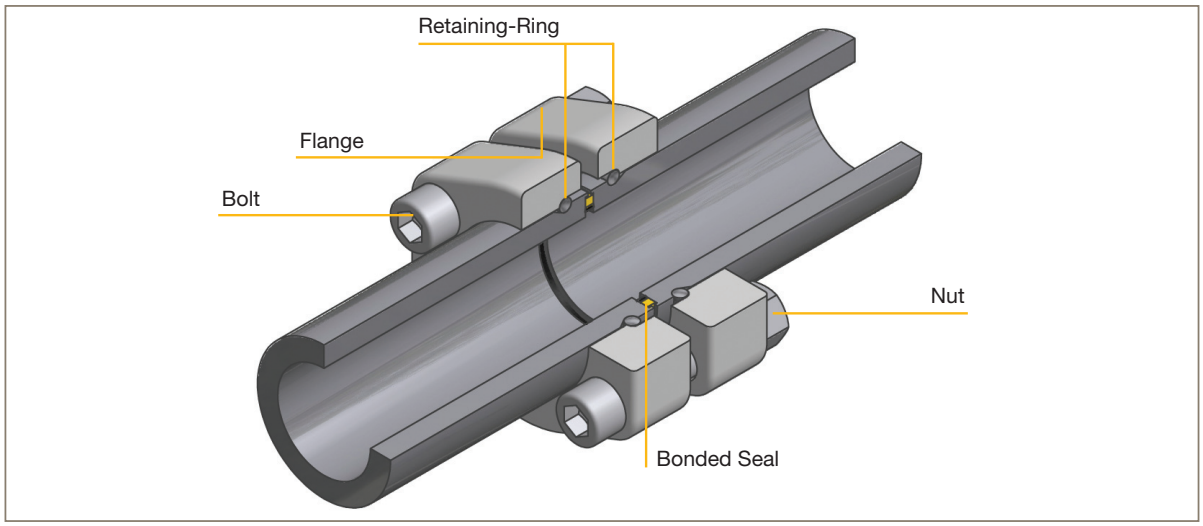
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Connection technology

**The Parflange® F37 Programme consists of two flange connection technologies:
The 37° Flare Flange Connection and the Retaining Ring Connection.**

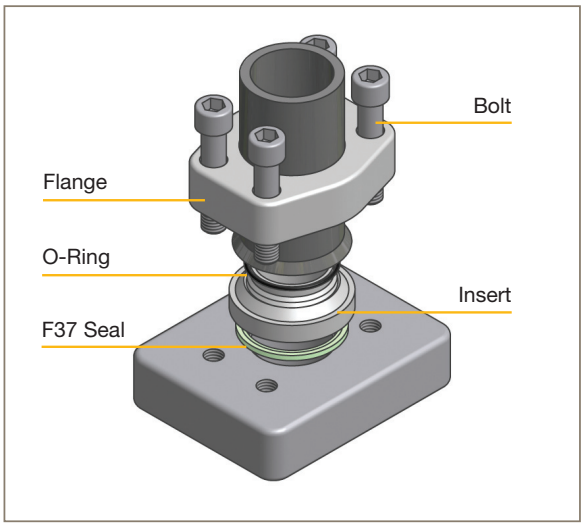


Parflange® F37 Flare Flanges – In this configuration, the deburred tube end is flared orbitally to 37° by Parflange® technology. An insert, soft sealed by an O-Ring, is located into each pipe end. In between a F37 Seal (optionally Bonded Seal or O-Ring) is placed. By tightening the flanges together, a soft sealed, high pressure tube connection is made. Available as tube-to-tube connection or tube-to-port connection.

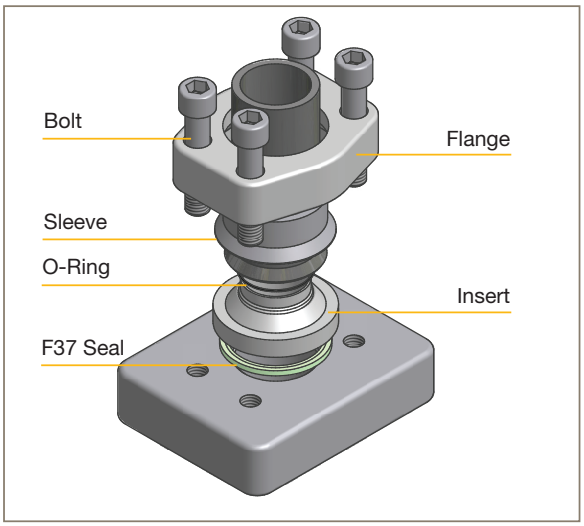


Retaining Ring Connection – The retaining ring used in this connection is a stainless steel segmented ring covered by a stainless steel spring. It is assembled in a machined groove on the tube end or adapter. When tightening this system, the flange is pushed against the retaining ring, thus giving a form tight connection. Retaining ring connections complete the Parflange® F37 range with bulkhead, male, female, weld and tube bend connections.

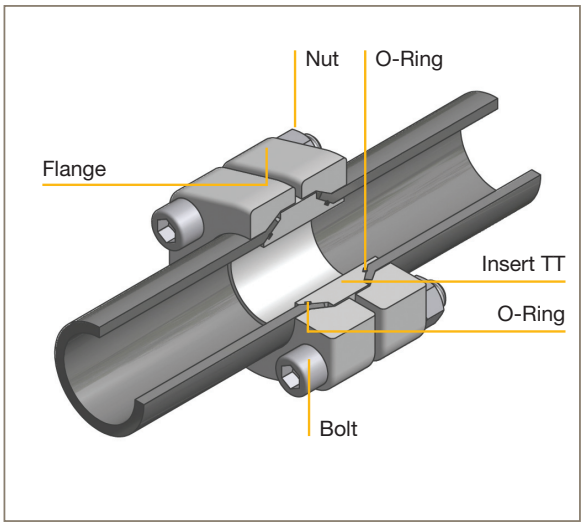
Connection methods F37 – Flared tube



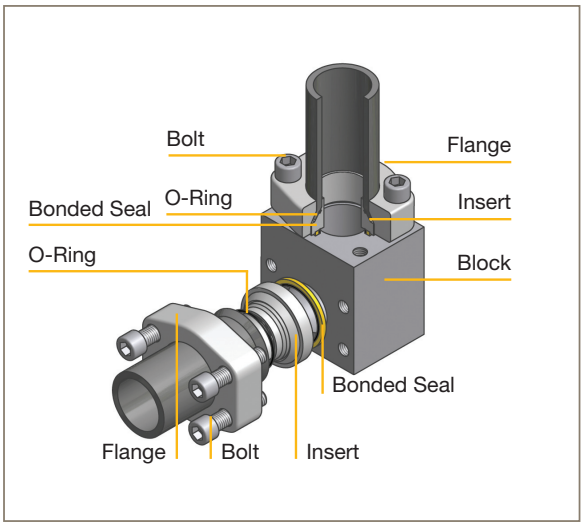
Flange to Port – the flanged tube is connected by the flange, insert and F37 seal to a port. Inserts with Bonded Seal can be used alternatively.



Flange to Port – the standard F37 Flanges can be used with adapter sleeve for smaller tube sizes as well.



Tube to Tube – two flanges and one insert connecting two flared tubes. A two insert solution with F37 Seal or Bonded Seal is optional.

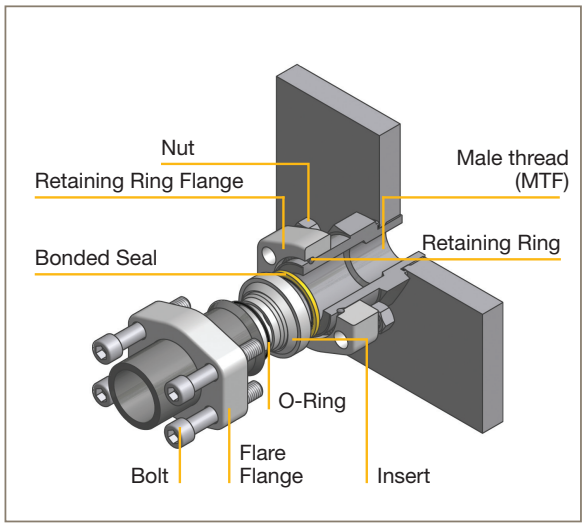


Tube to Block – instead of using flange bends compact L-Blocks are available. The range is completed by T-Blocks and Reducing Blocks. Special Manifolds according to customer design available on request.

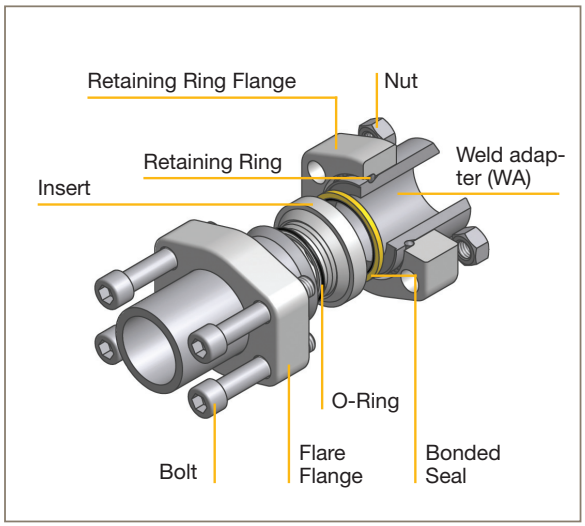
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Connection methods – Retaining ring

The Retaining Ring Flanges are – like the flanges for the F37 range – acccording to ISO 6162-1/2 and ISO 6164 footprint. Therefore any combination of the systems is possible.



Male Thread Connection – Male Stud ends are delivered with soft seal ED end on one side and the Retaining Ring connection on the other side.



Weld Adapter – Weld adapters are delivered with weld end on one side and the Retaining Ring connection on the other side.

Complete Piping Solutions

Homogeneous solutions offer efficiency

From Components to full service.
Parker offers you the competent complete solution for hydraulic systems. From advice via design and pre-configuring to delivery and installation - everything with the best quality and reliability. You only have one contact. You take the pressure off your own team, release capacity and overall save a lot of time. You achieve new efficiency at high pressure.

Excellent complete solution.
Complete Piping Solutions from Parker are always to the customer's advantage. Equally high quality in all areas and available around the world.

The complete solution from a single source frees up customer capacity and lowers the need for customers to provide coordination effort. As a supplier of piping system solutions we offer our customers significant added value.

Advantages that pay off.

- High-quality system technology
- Saves time
- Saves money
- Customised user solutions
- Environmentally friendly
- Global supply
- Integration into existing systems

Advice	**Briefing/design meeting**
Design	**Pipe layout** **Pipe dimensioning** **Drawings** **Documentation**
Prefabrication	**Pipe bending** **Pipe end processing** **Pipe cleaning**
Delivery	**Assembly/ Dispatch** **Documentation**
Assembly	**On-site advice** **On-site assembly** **Testing and flushing** **Documentation**



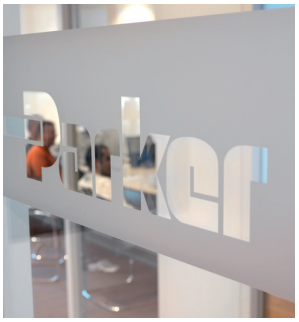
Pipe bending

Complete Piping Solutions

The complete solution for hydraulic systems

The Parker Complete Piping Solutions concept can be used in the most varied and demanding applications. These include shipbuilding, the oil industry, steel plants and other industrial applications. Parker piping solutions offer you the competent complete solution for hydraulic systems.

Starting with the design via pre-configuring to delivery and installation, everything produced by Parker is top quality and extremely reliable. Even at an early stage of designing machines and systems, Parker engineers and technicians are available to you to provide ideal assistance for the development of hydraulic line systems.



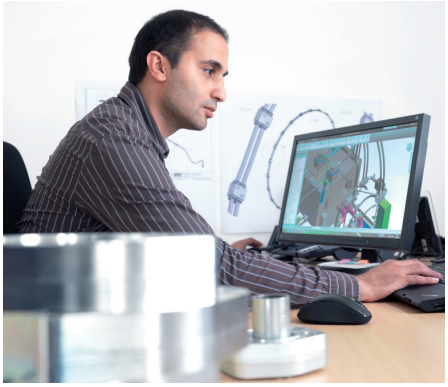
The support offered to you by Parker includes a suggestion for the type of connection (product to be used) and the choice of materials to be deployed starting with the lines and even the seals. The manufacture of special components, e.g. blocks or manifolds, is no problem for Parker.

If you have no opportunity for line configuration and assembly Parker is there and able to provide advice with its Complete Piping Solutions concept. It is completely irrelevant whether this is an initial fitting or modernising a machine or equipment. Parker's service covers measuring, preparing the pipeline flange connections, including the pipe flanges and assembling the connections.

Such customised mechanical hydraulic connections offer massive time savings during conversion, expansion or disassembly.



Machine preparation for the bending process





Delivery of components in secure packaging

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Our customer solutions

Achieving more together

Parker is highly successful with its weld-free piping systems for many applications.



In the Offshoremarket these are pipes for such different ship types as suction dredgers, work ships to install and supply oil platforms, ferries and installation ships for the wind industry. The most varied of hydraulic systems can be given Parflange F37 connections. Piping solutions are also created for drilling and transport towers, crane systems and hoists using Parker's weld-free systems.

It is always about fast, low-cost completion and installation. Weld-free systems enable customers to respond quickly and efficiently to new projects and generate new business. The hydraulic systems in plant and mechanical engineering are also equipped with the Parflange® F37 system. These are the hydraulic, cooling system and return lines.

Customers often have to fight against long manufacturing lead times for a new machine.
If for instance a main ring line for a cooling system needs to be welded, time passes before the final installation on the machine can take place. This is the result of such matters as the set-up and cleaning times for the pipe.

Other power piping applications include renewable energy industries (wind power, water power). Also vehicle construction (car, truck test stands) and general mechanical engineering (wood processing machines, press construction, waste processing).

Precision and flexibility are essential for all applications. Orientable flanges give the pipe fitter greater flexibility during assembly.

The Parflange® F37 machine (WCM-WorkCentre Model) offered by Parker gives the customer a high level of flexibility for on-site assembly.

In summary, the weld-free connection systems from Parker achieve a high level of financial and time savings, flexibility, precision, quality and reliability. And this is associated with extraordinary customer and delivery service.





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Centrally located at the heart of Europe

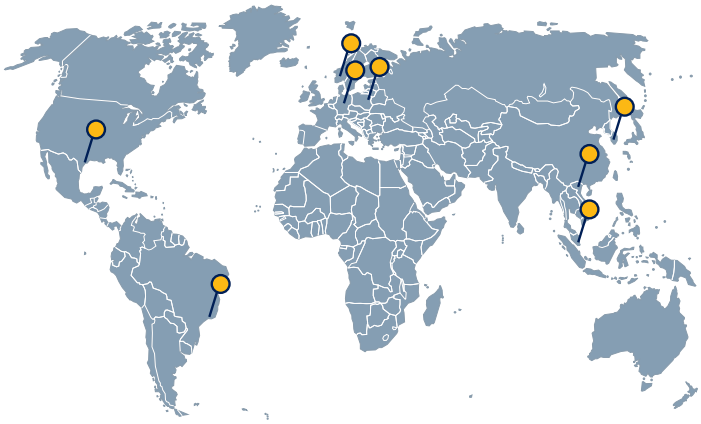
Complete Piping Solutions Centre in Augustdorf



As a result of the global piping strategy introduced by Parker Hannifin some time ago, there is now also a German piping centre close to Bielefeld (in Augustdorf). The German CPS (Complete Piping Solutions) has a strategic location close to the Parker factory at Bielefeld-Windelsbleiche and the European Distribution Center (EDC).
The CPS Germany offers comprehensive options for customer-specific piping system solutions. Piping system solutions are developed in line with customer requirements and requests, in the newly designed office areas with modern IT equipment. The complete production process is characterised by optimised routes for materials ordering, manufacturing and then dispatch. The flow of goods has been copied from the existing piping centres and the associated positive experience gained.



Locations of the global Parker Piping Solutions Centres



The functional workshop can process pipes with external diameters up to 220 mm on the modern CNC bending machines. These machines can also realise 2xD to 3XD bending radii which are defined as standard for the relevant pipe diameters. The other machines also match the high quality standard used by Parker.

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General information

The requirements increase

So does our performance

In order to comply with the market and customer requirements in this segment we have aligned our performance to this. The following overview aims to emphasise the range of services offered by CPS Germany.

Development and design:
- Modern CAD systems can process all common 3D and 2D data formats and simulate installation situations
- The projects are produced as required by or in cooperation with the customer. These may be new systems or upgrades
- It may require taking pipe measurements on-site using a modern measurement system. These data can be handed over to the CAD System
- Data from the measurement system are used later for quality control in order to ensure an ideal and secure production process

Cold bending:
- After creating the data required for production these are transferred to the machines. The available bending machines process tubes with diameters from 6 x 1 mm to 190 x 20 mm (thin-walled Ø 220 x 6 mm)

Tube end processing:
- Modern CNC controlled machines are available for processing pipe ends. Tube end processing is carried out based on internal standards

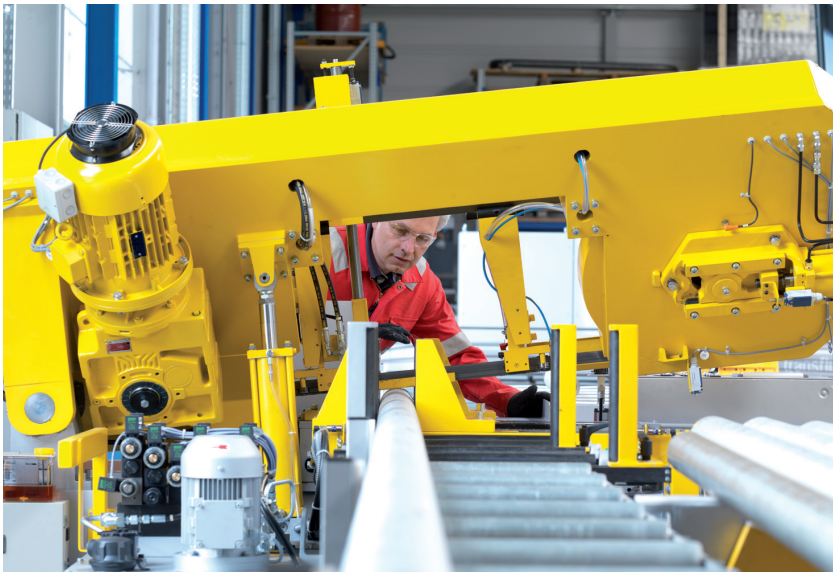
Tube cleaning:
- Tube cleaning using the ISO 4406 / NAS 1638 standard
- Permanent control of the pollution and cleanliness level with modern measuring devices

Pressure test:
- Pressure test to customer specifications possible
- Documentation at the customer's request



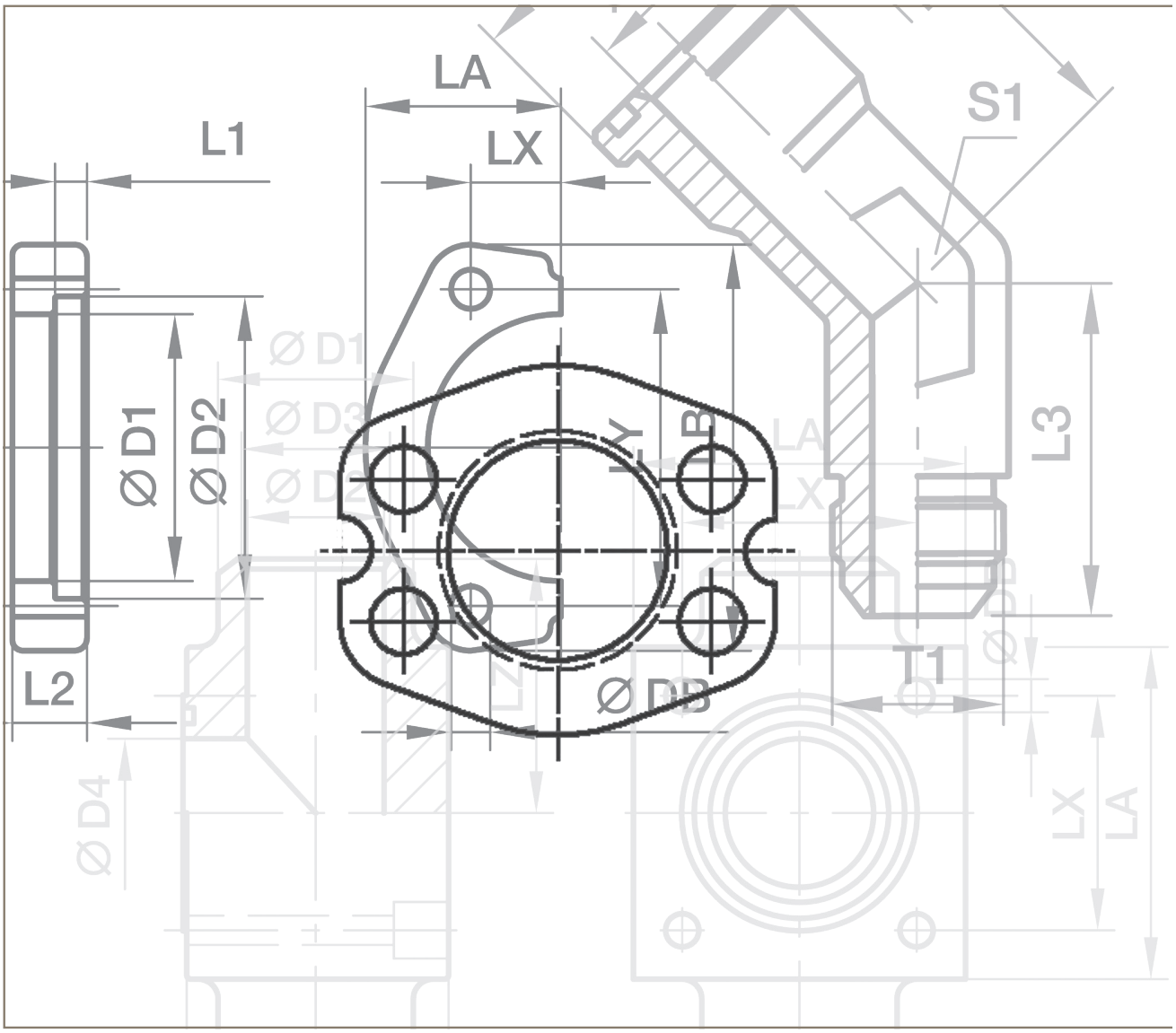
Installation / support:
- Delivery of pre-configured tube systems to the customer's desired address
- Installation of tube systems whilst taking into account the parameters and work steps set in the installation manual
- Installation by end customer training conducted by Parker





Parker

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Technical data

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Pressure reductions and temperatures for flanges and connection components

Required pressure reductions (depending on the material) with reference to the catalogue pressures for higher temperatures. Both metal fitting material and elastomeric sealing compound have to be selected according to the temperature range of the system.

DNV may require different pressure reduction based on application

Material	Pressure reduction of permissable operating temperatures TB in °C														
	-60	-54	-40	-35	-25	+20	+50	+100	+120	+150	+175	+200	+250	+300	+400
Steel components			-10%				0%			-11%	-19 %				
Steel, tubes			-10%				0%			-19 %			-27 %		
Stainless steel components	0%						-5%	-15%	-23%		-29%		-33%	-37%	-42%
Stainless steel, tubes	0 %						-5.5 %	-11.5%	-21.5 %				-29 %		-34%
Sealing material NBR (e.g. Perbunan)															
Sealing material FKM															
Sealing material Polyurethan (P5008)															

Permitted operating temperature
Permitted ambient temperature of hydraulic and pneumatic applications
Temperature not permitted

Calculation example:
Temperature = 200°C
Material = Stainless steel
Pressure reduction = 29%
Pressure reduction tubes = 21.5%
PN tube 16x2.5/71. DIN2413 III = 362 bar

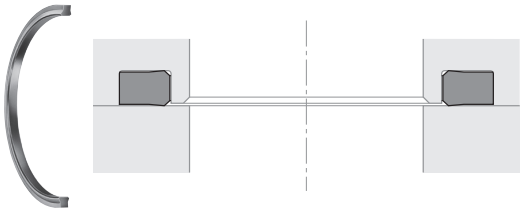
Formula:

$$PN_{200°C} = \frac{400\ \text{bar}}{100\%} \times (100\% - 29\%) = 284\ \text{bar}$$

$$PN_{\text{tube } 200°C} = \frac{362\ \text{bar}}{100\%} \times (100\% - 21.5\%) = 284\ \text{bar}$$

F37 seal

The F37 seal was developed especially for use with SAE flanges. Compared to a standard O-Ring the special profile of the F37 seal is ideally adapted to higher pressures and flange surface finish.
The particularly low compression set of the polyurethane compound (e.g. P5008) ensures dimensional stability of the seal over a large temperature range. Its high extrusion resistance prevents gap extrusion even if the flanges "breathe" under pressure. Due to good abrasion resistance, less preparation is necessary on the surface finish of the sealing area of the flange. The frequently occuring "pumping" phenomenon of O-Rings is prevented by the shape of the F37 seal.



Application area

Sealing for SAE-Flanges
Working pressure: ≤ 600 bar
Working temperature: see table above

Materials

The F37 seal is made of a special polyurethane compound with a hardness of approx. 93 Shore A. In comparison with other polyurethane materials currently available on the market, it excels because of its increased heat resistance, improved performance against hydrolysis and low compression values.

For special requirements (pressure, temperature, flow speed, application in water, HFA-, HFB-fluids etc.), please contact our Consultancy Service, so that suitable materials and/or designs can be recommended.

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Pressure reductions and temperatures for ball valves

Body, adapters, stem and ball materials	Pressure reduction of permissible operating temperatures TB in °C													
	-60	-50	-40	-30	-20	-10	0	+20	+80	+100	+120	+130	+150	+200
Free-Cutting steel, **not suitable for gas applications!**				0%										
Low-Alloy Steel			-25%				0%							
Stainless steel				0%							-11%			
Duplex Steel					0%						-20%			

Ball seat material	Pressure reduction of permissible operating temperatures TB in °C													
	-60	-50	-40	-30	-20	-10	0	+20	+80	+100	+120	+130	+150	+200
POM							0%							
Cast Iron GG25							0%							

Stem and adapter sealing materials	Pressure reduction of permissible operating temperatures TB in °C													
	-60	-50	-40	-30	-20	-10	0	+20	+80	+100	+120	+130	+150	+200
Acrylonitrile-butadienerubber (NBR, Buna N)				0%										
Low-temp NBR Compound							0%							
FKM								0%						
Low-temp FKM Compound							0%							
EPDM							0%							

Permitted operating temperature
Temperature not permitted

A test pressure of 1.5 x PN applies to all ball valves in accordance with DIN 3230 T5 and ISO 5108 for body.
1.1 x PN applies to ball seats.
The nominal pressure specifies the admissible working pressure at 20°C. Please consider the pressure reduction at higher temperature.
The safety factor for burst pressure tests is a minimum of 2.4 times the nominal pressure.
P Burst = 2.4 x PN
Leakage tests are done acc. DIN EN 12266 leakage rate A (No visually noticeable leakage during the duration of the test with fluid or air.

For other matierals than listed, please contact Parker HPCE.

Tolerances and standards

Threads		
Outside diameter	Core diameter	Type of thread
8.00	6.92	M8x1
9.73	8.57	R1/8"x28
10.00	8.92	M10x1
10.27	8.77	NPTF1/8"x27
11.11	9.74	JIC7/16"x20
12.00	10.38	M12x1.5
12.70	11.33	JIC1/2"x20
13.16	11.45	R1/4"x19
13.57	11.31	NPTF1/4"x18
14.00	12.38	M14x1.5
14.27	12.76	JIC9/16"x18
15.88	14.35	SAE5/8"x18
16.00	14.38	M16x1.5
16.66	14.95	R3/8"x19
17.06	14.80	NPTF3/8"x18
18.00	16.38	M15x1.5
19.05	17.33	JIC1/4"x16
20.00	18.38	M20x1.5
20.96	18.63	R1/2"x14
21.22	18.32	NPTF1/2"x14
22.00	20.38	M22x1.5
22.23	20.26	JIC7/8"x14
22.91	20.59	R5/8"x14
24.00	22.38	M24x1.5
26.00	24.38	M26x1.5
26.44	24.12	R3/4"x14
26.57	23.67	NPTF3/4"x14
26.99	25.10	JIC1 1/16"x12
28.00	26.38	M28x1.5
30.00	27.83	M30x2
30.16	28.20	JIC1 3/16"x12
30.20	27.88	R7/8"x14
31.23	29.61	NPTF1"x11.5
33.25	30.29	R1"x11
33.34	31.40	JIC1 5/16"x12
36.00	33.83	M36x2
41.28	39.30	JIC1 5/8"x12
41.91	38.95	R1 1/4"x11.5
41.99	38.95	NPTF1 1/4"x11.5
42.00	39.83	M42x2
45.00	42.83	M45x2
47.63	45.80	JIC1 7/8"x12
47.80	44.85	R1 1/2"x11
48.05	44.52	NPTF1 1/2"x11.5
52.00	49.83	M52x2
59.61	56.66	R2"x11
60.09	56.56	NPTF2"x11.5
60.20	60.80	JIC2 1/2"x12
65.71	62.75	R2 1/4"x11
73.00	68.80	NPTF2 1/2"x8
75.18	72.23	R2 1/2"x11
87.88	84.93	R3"x11
89.00	85.00	NPTF3"x8
113.03	110.07	R4"x11
114.35	110.30	NPTF4"x8

NOTE: NPTF thread have to be measured outside on the 4. thread from the end

A.P.I.	American Petroleum Institute Taper Thread
A.S.A.E.	American Society of Agricultural Engineers
A.S.S.P.T.	American National Straight Pipe Thread
B.S.P.	British Standard Parallel Pipe Thread
B.S.T.P.	British Standard Taper Pipe Thread
F.I.E.I.	Farm and Industrial Equipment Institute
G.H.T.	Garden Hose Threads/F.P.T.- Female Pipe Thread
I.P.T.	American Iron Pipe Thread - Straight
J.I.C.	Joint Industry Conference (SAE 37)
J.I.S.	Japanese Industrial Standard
M.	Metric Thread
M.M.	Metric Thread
N.P.S.	American National Pipe Thread - Straight
N.P.S.M.	American National Pipe Thread - Straight Mechanical
N.P.T.	American National Pipe Thread - Taper
N.P.T.F.	American National Pipe Thread - Taper/Dry seal
N.S.T.	American National Standard Thread - Straight
R.	Rörgjenger - BSP
R.T.	British Round Thread
S.A.E.	Society of Automative Engineers (45)
U.R.T.	Dennis Urban Round Thread
U.N.C.	Unified Coarse Thread
U.N.F.	Unified Fine Thread
VEE	Shelvoke Drewry "VEE" Round Thread
W.	Withworth Thread



Installation F37 Flange system

Current installation guide:

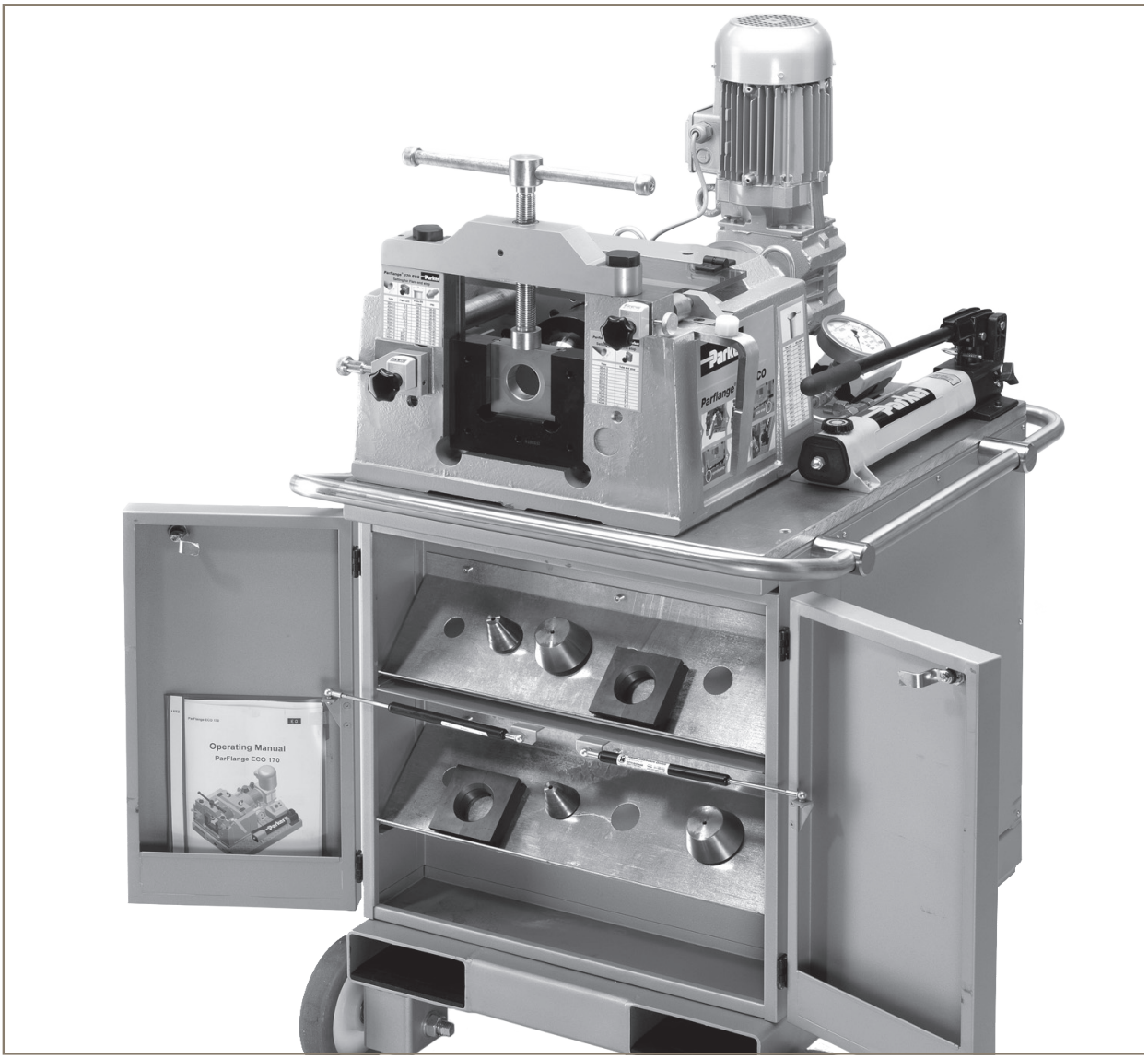
www.parker.com/hpce
Support
Literature and Reference Material
Installation Guides

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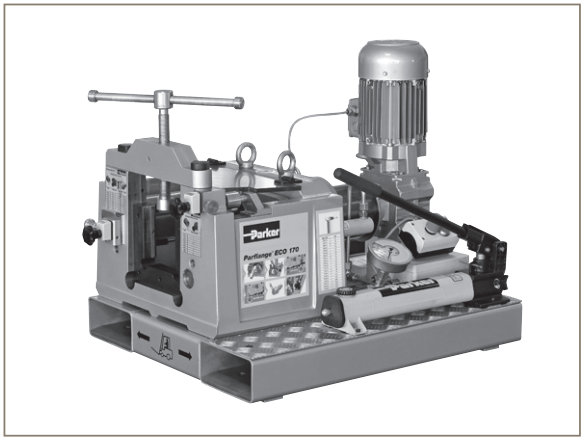
Machines, tooling and equipment

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Parflange® 170

Workshop machine for F37 flange connections



Parflange® 170 ECO for workbench

The Parflange® 170 ECO is a compact workshop machine for 37° flaring of tubes for flange connections.

The orbital tube flaring is achieved by a rotating flaring unit, powered by an electro-mechanical drive. Two hydraulic cylinders operated by a hand pump generate the axial feed movement. Gas springs move the flaring unit back after the valve on the hand pump is opened. The tubes are mechanically clamped between a set of dies. The machine features an adjustable tube stop for tube positioning (Tube Stop), and an adjustable stop for the tube depth to be flared (Spindle Stop).

The machine is used to form tube ends by means of a rotational action. It is designed as a workshop machine for installations of tube connections.

The machine is available in 2 versions:

- Parflange® 170 ECO for use on work bench and
- WorkCenter Parflange® 170 WCM which is mounted on a movable tool cabinet

Parflange® machines are delivered ready for use. Tools have to be ordered separately. Clamping die sets and flanging pins are available for common tube sizes. The machine can be moved by crane or forklift.

Applications

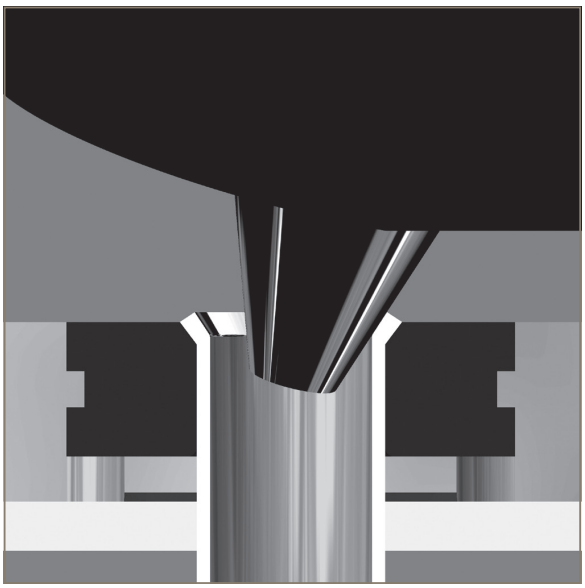
- The F37 system is an alternative to conventional welding of flanges in shipbuilding, oil & gas exploration and similar industries
- Workshop use, project work, plant maintenance, on-site assembly
- Not recommended for mass production



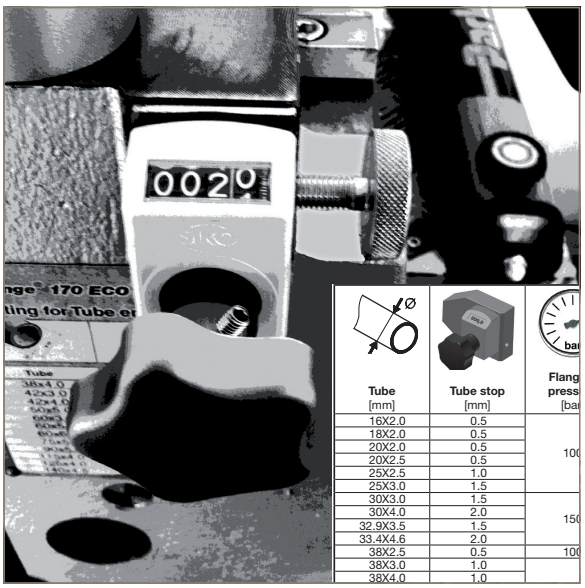
Parflange® 170 WCM WorkCenter

Specifications

Purpose	37° flaring for Parker F37 flange connection
Process	Tube forming by orbital flaring process
Design	On-site and workshop machine for individual tube manufacturing
Models	• Parflange® 170 ECO for use on work bench, easy to transport, optimal to use on site • WorkCenter Parflange® 170 WCM, mounted on a movable tool cabinet, optimal to use in a production hall
Operation	Manual tube clamping Electrically driven flaring unit Manual feed by hand-pump
Tube diameter	16 mm – 168.3 mm O.D.
Maximum capacity	168.3 x 2.77 mm
Tube material	Steel and stainless steel
Cycle time	1 – 2 minutes flaring time 3 – 5 minutes total cycle time
Economic production quantity	Up to 50 assemblies per day
Tools	Flanging pin BF37… Clamping die set MF37… Die frames required for small to medium sizes
Tool lubrication	manual
Forming lubricant for pin	LUBSS
Machine dimensions (L x W x H)	Parflange® 170 ECO: 850 x 680 x 675 mm Parflange® 170 WCM: 880 x 810 x 1470 mm
Weight	Parflange® 170 ECO: approx. 350 kg Parflange® 170 WCM: approx. 460 kg
Nominal voltage	400 V/3Ph/50 Hz/3A/1.1 KW
Connecting cable	3m/CEE 16A
Sound pressure level	Less than 70 dB (A)



Superior sealing surface is achieved by orbital flaring



Consistent flaring result is achieved by setting of Tube Stop and Spindle Stop

Features, advantages and benefits of Parflange® 170 ECO

1. **Cost saving** – Compared to welding or brazing, orbital flaring is much less time consuming. Special tube preparation and finishing are not necessary. Flaring uses only a fraction of the energy needed for brazing or welding.

2. **Zinc plated tubing** – The Parflange® process allows the use of zinc plated tubing. The cost for cleaning, post process plating or painting is saved.

3. **Superior sealing performance** – The orbital flaring process achieves a sealing surface of superior surface quality and mechanical strength.

4. **Process/Product concept** – Parflange® machines are especially designed to match Parker F37 flange standards. Machines, tools and products are fine-tuned for reliable performance.

5. **Workshop use** – The rigid machine design allows project work in on site piping workshops.

6. **Short clamping length** – Clamping dies for 37° flaring are optimized for minimum straight tube length.

7. **Easy to use** – All operational devices are obvious so that machine operation is intuitive.

8. **Quality** – Consistent quality results are achieved by recommended values for machine setting.

9. **Constant flare diameter** – The diameter of the 37° flare is given by the tool contour and the Tube Stop adjustment. A chart on the machine indicates recommended Tube Stop setting.

10. **Prevention of over-flaring** – The shape of the 37° flare is given by the tool contour and the Spindle Stop adjustment. This prevents difficulties to fit the insert into the flare.

11. **Flexible** – Different tube material and quality might require special setting of Tube Stop, Spindle Stop, flanging feed and flanging force. For best results, these parameters can be manually adjusted based on operators experience.

12. **Clean** – The Parflange® process is environmentally clean and safe. As no heat or chemicals are used, hazards from fumes or heat do not occur.

13. **Perfect for on site work** – The machine has special attachments for transportation by fork lift and crane. The wide base provides a safe stand. This is particularly useful for on site pipe installation in shipyards or in oil and gas exploration.

14. **Ready to go** – The Parflange® 170 ECO is delivered including all necessary details like electrical plug, operator manual, declaration of CE-conformity, short instruction pictograms on machine housing and dimensional charts for tube preparation.

15. **Parflange® 170 WCM –** This model is mounted on a robust tool cabinet with wheels. It is easy to move and perfect for flexible workshop use.

Machines, tooling and equipment

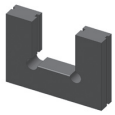
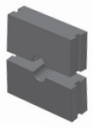
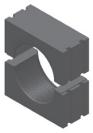
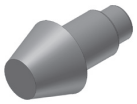
Tool selection

Workshop machine for F37 flange connections

Ordering

Type	Order code
Parflange® 170 Basic machine Ready to use, including operation manual, filled with hydraulic oil, without tools	
Basic machine for workbench use, 400V, 50Hz	170EU400VECO
WorkCenter with tool cabinet, 400V, 50Hz	170EU400VWCM
Promotion leaflet 4162/UK	via Parker catalogue service EMDC
Tool lubricant qty: 1 L	LUBSS

Parflange® machines are shipped in special containers which should be kept for future transportation to avoid damage.

	Clamping die frame small/large	Clamping die set "MF"	Extended clamping die set "MF" for large tube wall thickness	Flanging pin "BF"
				
Tube O.D. mm	Order code Clamping die frame	Order code Clamping die set	Order code Extended clamping die set	Order code Flanging pin
16.0	MF37/FRAME20-60	MF37-16		BF37-6/42
20.0		MF37-20		
25.0		MF37-25		
26.7		MF37-26.7		
30.0		MF37-30		
32.9		MF37-32.9		
33.4		MF37-33.4		
38.0		MF37-38		BF37-38/60
42.0		MF37-42		
48.3		MF37-48.3		
50.0		MF37-50		
60.0		MF37-60		BF37-60/75
60.3		MF37-60.3		
65.0	MF37/FRAME73-90		MF37-65 E	
73.0		MF37-73	MF37-73E for Tube 73X7	
75.0		MF37-75		BF37-75/90
88.9		MF37-88.9		
90.0		MF37-90		
90.9			MF37-90E	BF37-90PREFLARE and BF37-75/90
100.0	no frame required	MF37-100		BF37-100
114.3		MF37-114.3	MF37-114.3E for Tube 114.3X6.02	BF37-115/140
115.0		MF37-115		
125.0		MF37-125		
139.7		MF37-139.7		
140.0		MF37-140		
141.3		MF37-141.3		BF37-141/165
165.0		MF37-165		
168.3		MF37-168.3		

tools for scheduled pipes on request

Tool lifetime

Assembly tools are subject of wear and must be regularly cleaned and checked.

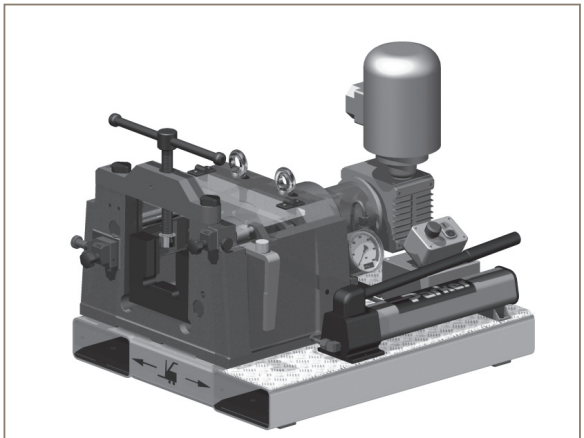
Worn out tools can cause dangerous assembly failures and must be replaced in time.

Maximum lifetime can be achieved by following factors:

- Regular cleaning and checking
- Clean and corrosion-protected storage
- Proper de-burring and cleaning of tube end
- Proper tool selection and operation
- Use of specified lubricant

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Assembly machines



Parflange® 170 ECO

Parflange® 170 ECO

The Parflange® 170 is a simple flaring machine for Parker F37 connections. By using the Parflange® process, it achieves an excellent sealing surface and a high-strength tube connection.

The equipment is very robust and easy to use. It saves time and effort compared to conventional welding of flange connections.

Parflange® 170 WCM Workcenter is ideal for workshop use. The 170 ECO is ideal for onsite installation.

- 37° flaring of: F37 flange connection
- Tube-OD: 16 – 168.3 mm
- Total cycle time: 30 – 60 sec.
- Economic production quantity: max. 50 assemblies per day
- Dimensions (L x W x H): ECO: 850 x 680 x 675
- Weight: 360 kg
- Power supply: 400 V 3-phase 50 Hz 1,1 kW

Catalogue: 4100



Parflange® 170 WCM

Parflange® 170 WCM

The Parflange® 170 WCM is a flaring Work Centre for Parker F37 connections. By using the Parflange process, it achieves an excellent sealing surface and a high-strength tube connection.

The machine is mounted on a robust tool cabinet with wheels. The EO2-FORM F3 represents a complete tube forming WorkCenter.

The Parflange 170 WCM is ideal for workshop use and on-site installation.

- 37° flaring of: F37 flange connection
- Assembly method: Orbital forming
- Tube-OD: 16 – 168.3 mm
- Total cycle time: 30 – 60 sec.
- Economic production quantity: max. 150 assemblies per day
- Dimensions (L x W x H): 880 x 810 x 1470
- Weight: 460 kg
- Power supply: 400 V 3-phase 50 Hz

Catalogue: 4162
Bulletin: 4165

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Lubricants

EO-NIROMONT lubricant for fitting assembly

EO-NIROMONT lubricant for flaring and forming tools

EO-NIROMONT are high performance lubricants specifically designed for the assembly of tube connections. They facilitate tightening using a low-torque when assembling joints by hand. In machine assembly, the use of EO-NIROMONT ensures that maximum tool-life is achieved. In forming processes, such as Parflange® or EO2-FORM, smooth and error-free sealing surfaces can be produced. Special additives prevent cold welding when working with stainless steel.
As opposed to when using Parker high performance lubricants, experience shows that the use of standard commercially available lubricants tend to lead to problems such as cold welding of forming tools, particularly when processing stainless steel tube. Parker high performance lubricants – EO-NIROMONT – are offered in different containers and viscosities so that you can purchase the appropriate product in a suitable container to meet your needs:

Liquid lubricant, plastic bottle (item: EONIROMONTFLUESSX)
Parker high performance lubricant for the lubrication of threads, progressive rings and for all cold forming processes like Parflange® or EO2-FORM. The handy plastic bottle means that it can be applied directly where the lubrication is needed. EO-NIROMONT liquid should always be available at every assembly point where hydraulic connections are being made.

Liquid lubricant, refill package (Item: LUBSS)
Parker high performance lubricant for all cold forming processes like Parflange® or EO2-FORM. Its viscosity means that it is for use in automatic lubrication devices installed in Parflange machines. Absolutely essential for mechanical cold forming of stainless steel tubes.

Paste lubricant, tin (Item: EONIROMONTPASTX)
Parker high performance lubricant for the lubrication of the threads of the pre-assembly tool VOMO. The paste is economical and provides durable thread lubrication. Not suited for use with forming tools, as dust and swarf will stick to it.

Liquid lubricant in a brush-in-cap can (item: EONIROMONTAPPLICATOR)
Thanks to a brush built into the screw cap, the practical EO-NIROMONT APPLICATOR enables the Parker high-performance lubricant to be applied accurately on the component. The plastic bottle can be used to refill the brush-in-cap can practically.

Features, advantages and benefits of NIROMONT lubricant:

1. **Highly effective** – EO-NIROMONT dramatically reduces assembly effort. This helps to prevent fitting failure resulting from insufficient assembly.
2. **Cost saving –** Tools in assembly machines will last much longer, resulting in high-quality tube forming with excellent sealing surface.
3. **No cold welding** – Cold welding of stainless steel threads is impossible when EO-Niromont is properly applied.
4. **Liquid** – Penetrates even small gaps.
5. **Paste** – Stays in place for a while. Ideal for application on pre-assembly tools.
6. **Compatible** – EO-NIROMONT and LUBSS do not effect fitting surfaces or seal materials.



EO-NIROMONT



EO-NIROMONT APPLICATOR



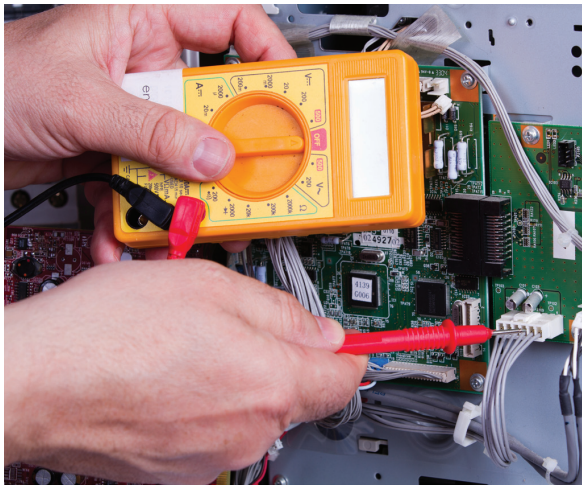
LUBSS

Ordering

Type	Order code
EO-NIROMONT Assembly lubricant paste (100 g ℮)	EONIROMONTPASTX
EO-NIROMONT Assembly lubricant liquid (250 cc)	EONIROMONTFLUESSX
EO-NIROMONT Liquid lubricant in a brush-in-cap can (250 cc)	EONIROMONTAPPLICATOR
EO-NIROMONT Forming tool lubricant refill (1 L)	LUBSS

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Assembly machines



Technical support for Parker machines

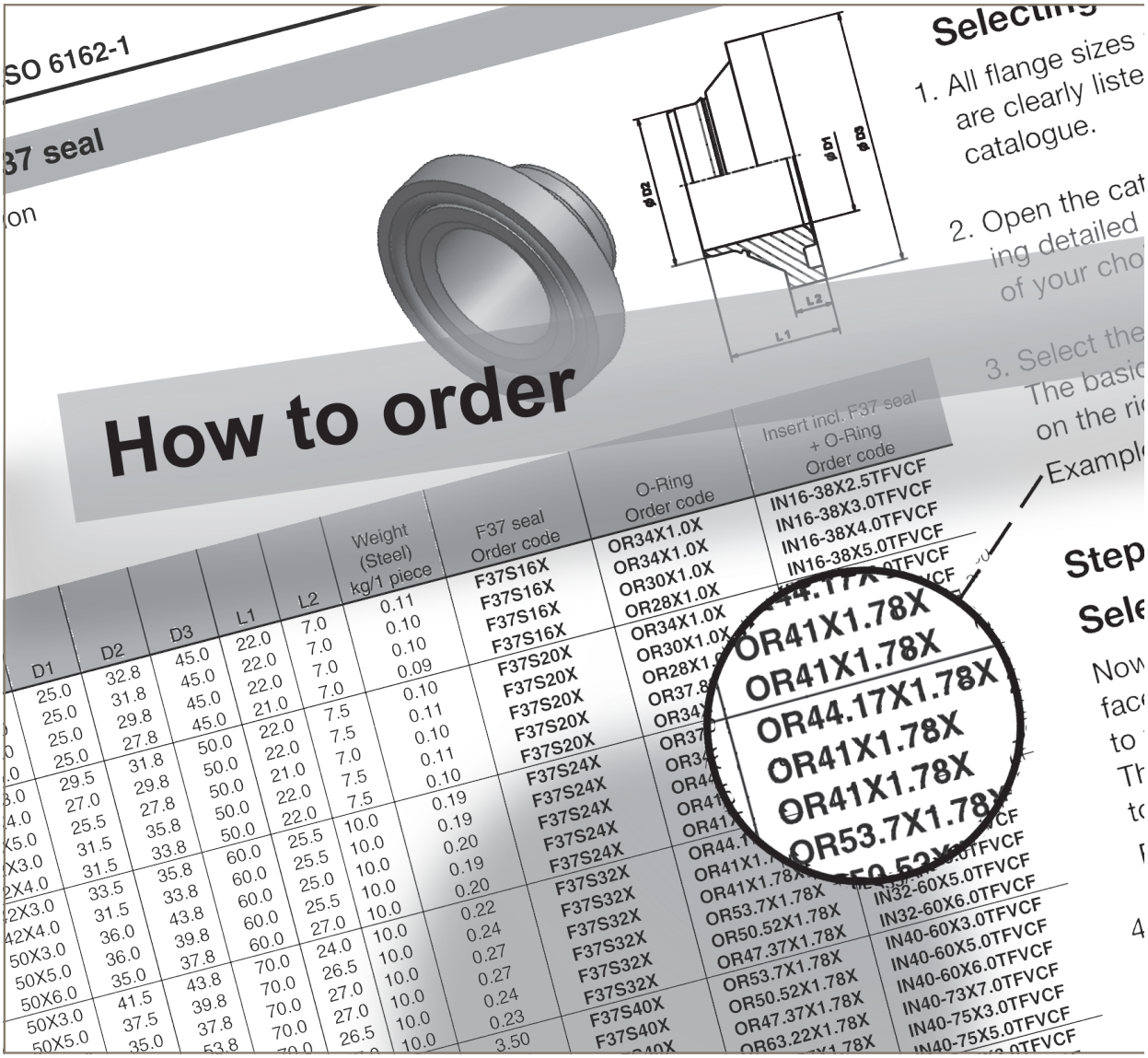
HPCE machine service procedures ensure that reliable machine function and fitting performance is achieved when using genuine Parker assembly equipment.

All machines come with detailed operating manuals. Parker distributors and sales representatives are trained to give advise on operation and applications. Experienced application engineers at HPCE are available when it comes to special application of HPCE assembly equipment.

In case of machine malfunction, spare machines can be provided on short notice so that production can continue. In the meantime, damaged machinery is checked and repaired at the HPCE machine repair facility. Well trained and experienced engineers take personal care that the machines return properly repaired and tested.

HPCE also offers a machine maintenance and calibration service. Standard spare parts like oil filters can be ordered.

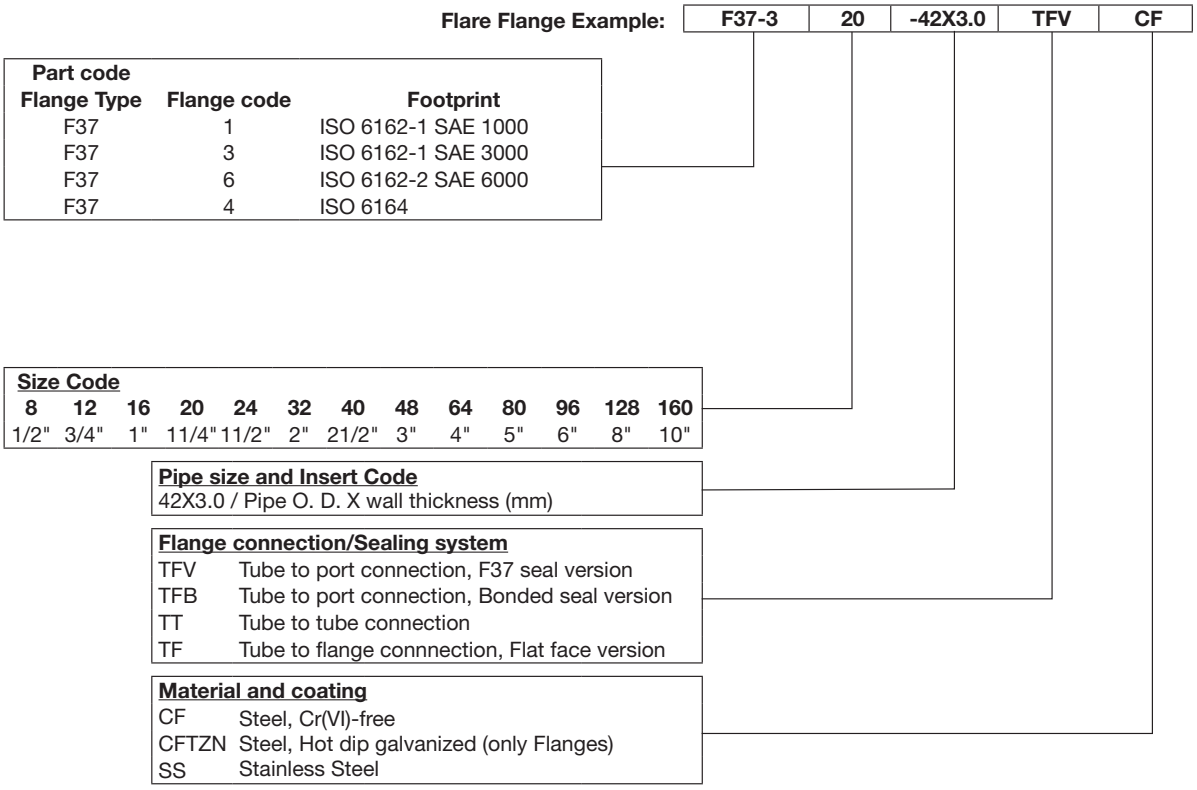
Notes



Ordering information/Nomenclature

Ordering information / Nomenclature

Parflange® F37 Code Key



Bolts and nuts are not components of the complete Part code

Combination examples

	Complete Part No.	Component	No.	Code	Material
Standard combination Steel CF	F37-320-42X3.0TFVCF	Flare Flange	1	F37-320-CFX	Steel, Cr(VI)-free
	Tube to port (F37 seal) 1 ¼" SAE 3000 Flare Flange	Insert incl. O-Ring and F37 Seal	1	IN20-42X3.0TFVCF	Steel, Cr(VI)-free
		O-Ring	1	OR37.82X1.78X	NBR, 90° shore
		F37 Seal	1	F37S20X	PUR
Stainless Steel	F37-620-38X4.0TFVSS	Flare Flange	1	F37-620/38-SSX	Stainless Steel
	Tube to port (F37 seal) 1 ¼" SAE 6000 Flare Flange, 38 mm OD tube Jump size	Insert incl. O-Ring and F37 seal	1	IN20-38X4.0TFVSS	Stainless Steel
		O-Ring	1	OR30X1.0X	NBR, 90° Shore
		F37 seal	1	F37S20X	PUR
Hot. dip galv. Flange and Stainless Steel Insert	F37-620-38X4.0TFVSSTZN	Flare Flange	1	F37-620/38-TZNX	Hot dip galv.
	Tube to port (F37 seal) 1 ¼" SAE 6000 Flare Flange, 38 mm OD tube Jump size	Insert incl. O-Ring and F37 seal	1	IN20-38X4.0TFVSS	Stainless steel
		O-Ring	1	OR30X1.0X	NBR, 90° Shore
		F37 seal	1	F37S20X	PUR

Before ordering components please check requirements from the classification companies.

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Parflange® Retaining Ring Code Key

Retaining Ring Examples: | R-1 | 32 | WA | -60.3X2.9 | S |

Part code Flange Type	Flange code	Footprint
R	1	ISO 6162-1 SAE 1000
R	3	ISO 6162-1 SAE 3000
R	6	ISO 6162-2 SAE 6000
R	4	ISO 6164 4 Bolt Flange
R	8	8-12 Bolt Flange*

Size Code

8	12	16	20	24	32	40	48	64	72	80	96	128	160
1/2"	3/4"	1"	11/4"	11/2"	2"	21/2"	3"	4"	4 1/2"	5"	6"	8"	10"

Weld adapter

Pipe size and Insert Code
60.3X2.9/Pipe O. D. X wall thickness (mm)

Material and coating

S	Weld Adapter O-Ring Sealing by SAE 1000 (other footprints bonded seal), Steel
FS	Weld Adapter Flat, Steel
SS	Weld Adapter O-Ring sealing, Stainless Steel
FSS	Weld Adapter Flat, Stainless Steel
SSTZN	Weld Adapter O-Ring sealing, Stainless Steel and hot dip galv. Flange
FSSTZN	Weld Adapter Flat, Stainless Steel and hot dip galv. Flange

*Round flange design; Footprint deviating from ISO-/SAE-Standards
Bolts and nuts are not components of the complete Part code

Combination examples

	Complete Part No.	Component	No.	Code	Material
Standard combination Steel CF	R-132WA-60.3X2.9S SAE 1000 Retaining Ring Weld Adapter	Retaining Ring Flange	1	R-132-CFX	Steel, Cr(VI)-free
		Retaining Ring		R32X	Stainless Steel
		Weld Adapter body	1	WA132-60.3X2.9S	Steel, Cr(VI)-free
		O-Ring		OR56.75X3.53X	NBR, 90° Shore
Stainless Steel	R-620WA-38X4.0SS SAE 6000 Retaining Ring Weld Adapter	Retaining Ring Flange	1	R-620-SSX	Stainless Steel
		Retaining Ring	1	R20X	Stainless Steel
		Weld Adapter body	1	WA20-38X4.0SSX	Stainless Steel
		Bonded seal	1	BS20SSNX	Stainless Steel/ NBR, 90° Shore
Stainless Steel	R-PSC8128-250X25VSS SAE 6000 8" Retaining Ring and Pipe seal carrier, 250 mm OD tube	Retaining Ring Flange	1	R-8128-SSX	Stainless Steel
		Retaining Ring	1	R128X	Stainless Steel
		Pipe seal carrier	1	PSC128-250X25VSSX	Stainless Steel
		F37 seal	1	F37RS128X	PUR

Before ordering components please check requirements from the classification companies.

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Notes



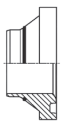
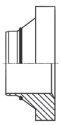
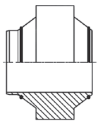
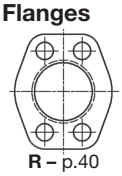
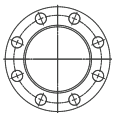
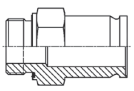
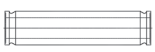
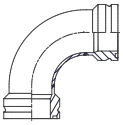
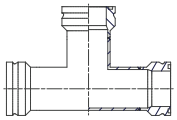
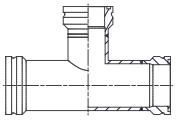
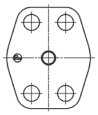
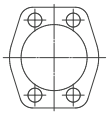
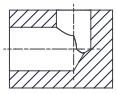
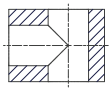
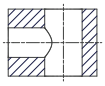
SAE 1000 System

50 – 70 bar

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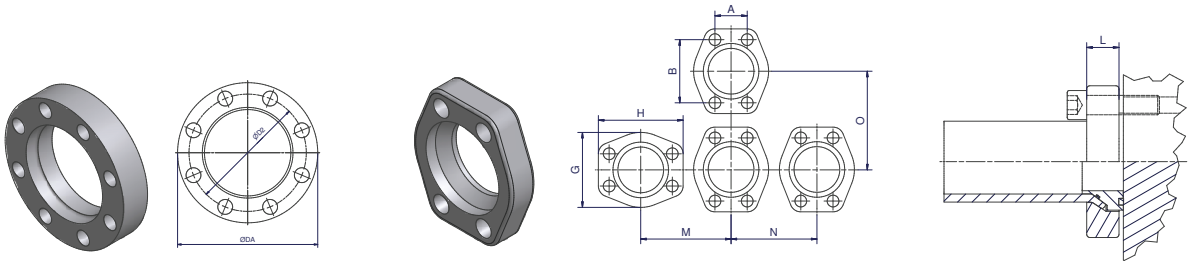
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Programme overview SAE 1000/ISO 6162-1 footprint

Parflange® F37 connection parts	**Flanges**  **F37** – p.39	
	Inserts  **TFV** – p.41  **TF** – p.42  **TT** – p.43	
Retaining ring connection parts	**Flanges**  **R** – p.40  **R-Ring** – p.44  **R** – p.40	
	Male / Female  **MTF-R** – p.45  **FTF-R** – p.46	**Weld**  **WA** – p.47  **WA-F** – p.48
	Tube to Tube  **BF** – p.49/50  **RF** – p.51/52  **LF** – p.53/54  **TF** – p.55/56  **TF-R**– p.55/56	
SAE connection parts	**Blind Flanges**  **BFV** – p.57  **CPML** – p.58	**Blocks** see SAE 3000  **LB**  **LBR**  **TB**  **TBR**
Seals Adapter Bolts	**Bolts and Nuts**  p.59	 **AP** – p.60
Ball valves	 p. 61/62	

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F37 – Flare flange | SAE 1000/ISO 6162-1 footprint



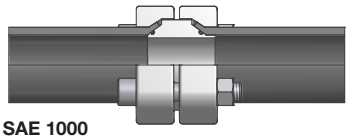
Parflange F37 flange dimensions

Size Inch	Flange Order Code	A	B	G	H	M	N	O	L	Bolts/pc.	Weight (Steel) kg/1 piece	W.P. bar
1 1/2	**F37-124-CFX**	35.7	69.9	83	94	93	87	99	20	4	0.52	70
2	**F37-132-CFX**	42.9	77.8	97	102	104	102	107	25	4	0.83	70
2 1/2	**F37-140-CFX**	50.8	88.9	109	114	117	114	120	30	4	1.16	70
3	**F37-148-CFX**	61.9	106.4	131	135	138	136	141	30	4	1.57	70
3 1/2	**F37-156-CFX**	69.9	120.7	140	152	151	145	158	30	4	1.99	70
4	**F37-164-CFX**	77.8	130.2	152	162	162	157	168	39	4	2.69	70
5	**F37-180-CFX**	92.1	152.4	181	184	188	186	190	39	4	3.24	50
		D2	DA									
6	**F37-196-CFX**	208.0	235.0						39	6	5.60	50
8	**F37-1128-CFX**	275.0	318.0						39	8	10.51	50
10	**F37-1160-CFX**	345.0	410.0						50	8	25.35	50

Pressure rates related to flanges. For all sizes also threaded flanges available (...T-CFX).

Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Comments
Steel, zinc plated, Cr(VI)-free	CF	F37-124-CFX	
Stainless steel	SS	F37-124-SSX	
Galvanized hot dip zinc	TZN (Not for threaded flanges available)	F37-124-TZNX	on request



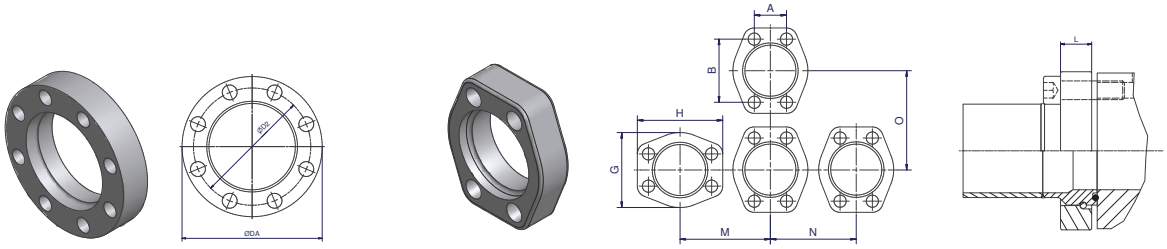
Part combination flaring SAE 1000

Flange Pressure (bar)	Size Inch	Pipe Size	Flange 1000 SAE ISO 6162-1 footprint	Insert*
70	1 1/2	50X3.0	F37-124-CFX	IN24-50X3.0T...
	2	60X3.0	F37-132-CFX	IN32-60X3.0T...
	2 1/2	75X3.0	F37-140-CFX	IN40-75X3.0T...
	3	88.9X3.05	F37-14888.9-CFX	IN48-88.9X3.05T…
	3	90X3.5	F37-148-CFX	IN48-90X3.5T...
	3 1/2	100X4.0	F37-156-CFX	IN56-100X4.0T...
	4	115X4.0	F37-164-CFX	IN64-115X4.0T…
50	5	140X4.5	F37-180-CFX	IN80-140X4.5T…
	6	165X5.0	F37-196-CFX	IN96-165X5.0T…
	8	220X6.0	F37-1128-CFX	IN128-220X6.0T...
	10	273X6.0	F37-1160-CFX	IN160-273X6.0T...
				Select the complete version:
				* …FVCF Seal version
				…TCF Tube to Tube version
				…FCF Flat Face version

Other sizes on request. Bolts and nuts are not included in complete part numbers. For recommended bolts and nuts see page 59.

R – Retaining ring flange | SAE 1000/ISO 6162-1 footprint

SAE 1000/ISO 6162-1 footprint



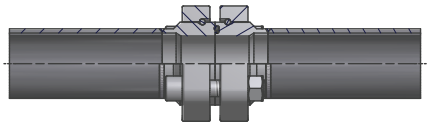
Retaining Ring Flange dimensions

Size Inch	Flange Order code	A	B	G	H	M	N	O	L	Bolts/pc.	Weight (Steel) kg/1 piece	W.P. bar
1 1/2	**R-124-CFX**	35.7	69.9	83	94	93	87	99	20	4	0.46	70
2	**R-132-CFX**	42.9	77.8	97	102	104	102	107	20	4	0.57	70
2 1/2	**R-140-CFX**	50.8	88.9	109	114	117	114	120	20	4	0.70	70
3	**R-148-CFX**	61.9	106.4	131	135	138	136	141	25	4	1.18	70
3 1/2	**R-156-CFX**	69.9	120.7	140	152	151	145	158	29	4	1.47	70
4	**R-164-CFX**	77.8	130.2	152	162	162	157	168	30	4	1.74	70
5	**R-180-CFX**	92.1	152.4	181	184	188	186	190	39	4	2.81	70
		D2	DA									
6	**R-196-CFX**	208.0	235.0						39	6	4.96	70
8	**R-1128-CFX**	275.0	318.0						38	8	8.95	50
10	**R-1160-CFX**	345.0	410.0						50	8	23.29	50

Pressure rates related to flanges. For all sizes also threaded flanges available (...T-CFX).

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-124-CFX
Stainless steel	SS	R-124-SSX
Galvanized hot dip zinc	TZN (Not for threaded flanges available)	R-124-TZN



Part combination retaining ring SAE 1000 (O-Ring) connection

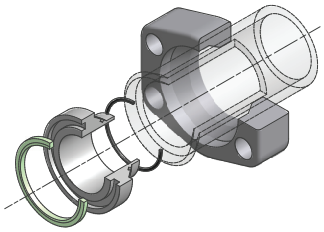
Flange pressure (bar)	Size Inch	Flange	Retaining Ring
70	1 1/2	R-124-CFX	R124X
	2	R-132-CFX	R132X
	2 1/2	R-140-CFX	R140X
	3	R-148-CFX	R148X
	3 1/2	R-156-CFX	R156X
	4	R-164-CFX	R164X
	5	R-180-CFX	R180X
	6	R-196-CFX	R196X
50	8	R-1128-CFX	R1128X
	10	R-1160-CFX	R1160X

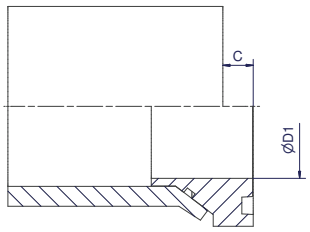
Other sizes on request. Bolts and nuts are not included in complete part numbers. For recommended bolts and nuts see page 59.

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TFV – Flare flange connection

Tube to port connection





Size Inch	Tube	Flange incl. Insert F37 Seal + O-Ring Order code	D1	C	Insert incl. F37 Seal + O-Ring Order code	O-Ring Tube Side Order code	F37 Seal Port Side Order code	Weight (Steel) kg/1 kit
1 1/2	50X3.0	**F37-124-50X3.0TFVCF**	36.0	11	IN24-50X3.0TFVCF	OR44.17X1.78X	F37S24X	0.72
2	60X3.0	**F37-132-60X3.0TFVCF**	46.0	12	IN32-60X3.0TFVCF	OR53.7X1.78X	F37S32X	1.10
2 1/2	75X3.0	**F37-140-75X3.0TFVCF**	60.0	10	IN40-75X3.0TFVCF	OR69.57X1.78X	F37S40X	1.46
3	90X3.5	**F37-148-90X3.5TFVCF**	72.0	15	IN48-90X3.5TFVCF	OR82.27X1.78X	F37S48X	2.17
3 1/2	100x4.0	**F37-156-100X4.0TFVCF**	88.6	15	IN56-100X4.0TFVCF	OR94.97X1.78X	F37S56X	2.60
4	115X4.0	**F37-164-115X4.0TFVCF**	90.0	14	IN64-115X4.0TFVCF	OR110X2X	F37S64X	3.53
5	140X4.5	**F37-180-140X4.5TFVCF**	122.0	15	IN80-140X4.5TFVCF	OR129.77X3.53X	F37S80X	4.09
6	165X5.0	**F37-196-165X5.0TFVCF**	150.8	17	IN96-165X5.0TFVCF	OR158.42X2.26X	F37S196X	6.98
8	220X6.0	**F37-1128-220X6.0TFVCF**	203.3	16	IN128-220X6.0TFVCF	OR209.22X2.62X	F37S1128X	12.66
10	273X6.0	**F37-1160-273X6.0TFVCF**	256.2	17	IN160-273X6.0TFVCF	OR262.34X3.53X	F37S1160X	28.78

Other sizes on request.

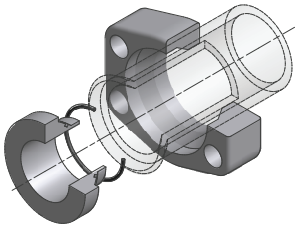
Please change suffixes according to material/surface required

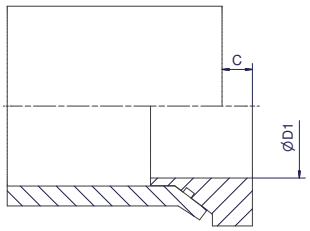
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-124-50X3.0TFVCF
Stainless steel	SS	F37-124-50X3.0TFVSS

Parflange® F37 – SAE 1000/ISO 6162-1 footprint

TF – Flare flange connection

Tube to port connection, flat face





Size Inch	Tube	Flange incl. Insert + O-Ring Order code	D1	C	Insert incl. O-Ring Order code	O-Ring Tube Side Order code	Weight (Steel) kg/1 kit
1 1/2	50X3.0	**F37-124-50X3.0TFCF**	36.0	11	IN24-50X3.0TFCF	OR44.17X1.78X	0.72
2	60X3.0	**F37-132-60X3.0TFCF**	46.0	12	IN32-60X3.0TFCF	OR53.7X1.78X	1.10
2 1/2	75X3.0	**F37-140-75X3.0TFCF**	60.0	10	IN40-75X3.0TFCF	OR69.57X1.78X	1.46
3	90X3.5	**F37-148-90X3.5TFCF**	72.0	15	IN48-90X3.5TFCF	OR82.27X1.78X	2.17
3 1/2	100X4.0	**F37-156-100X4.0TFCF**	88.6	15	IN56-100X4.0TFCF	OR94.97X1.78X	2.60
4	115X4.0	**F37-164-115X4.0TFCF**	90.0	14	IN64-115X4.0TFCF	OR110X2X	3.60
5	140X4.5	**F37-180-140X4.5TFCF**	122.0	15	IN80-140X4.5TFCF	OR129.77X3.53X	4.14
6	165X5.0	**F37-196-165X5.0TFCF**	150.8	17	IN96-165X5.0TFCF	OR158.42X2.62X	7.03
8	220X6.0	**F37-1128-220X6.0TFCF**	203.3	16	IN128-220X6.0TFCF	OR209.22X2.62X	12.85
10	273X6.0	**F37-1160-273X6.0TFCF**	256.2	17	IN160-273X6.0TFCF	OR262.34X3.53X	29.01

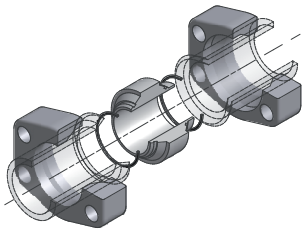
Other sizes on request.

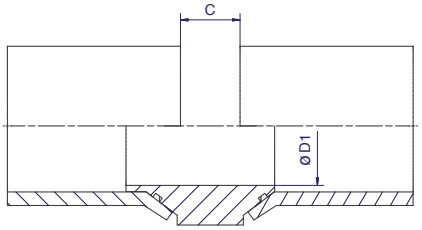
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	IN24-50X3.0TFCF
Stainless steel	SS	IN24-50X3.0TFSS

TT – Flare flange connection

Tube to tube connection





Size Inch	Tube	Flange incl. Insert + 2 x O-Ring Order code	D1	C	Insert incl. 2 x O-Ring Order code	O-Ring Tube Side Order code	Weight (Steel) kg/1 kit
1 1/2	50X3.0	**F37-124-50X3.0TTCF**	36.0	22	IN24-50X3.0TTCF	OR44.17X1.78X	0.94
2	60X3.0	**F37-132-60X3.0TTCF**	46.0	24	IN32-60X3.0TTCF	OR53.7X1.78X	1.38
2 1/2	75X3.0	**F37-140-75X3.0TTCF**	60.0	20	IN40-75X3.0TTCF	OR69.57X1.78X	1.79
3	90X3.5	**F37-148-90X3.5TTCF**	72.0	30	IN48-90X3.5TTCF	OR82.27X1.78X	2.79
3 1/2	100X4.0	**F37-156-100X4.0TTCF**	88.6	30	IN56-100X4.0TTCF	OR94.97X1.78X	2.60
4	115X4.0	**F37-164-115X4.0TTCF**	90.0	28	IN64-115X4.0TTCF	OR110X2X	4.45
5	140X4.5	**F37-180-140X4.5TTCF**	122.0	30	IN80-140X4.5TTCF	OR129.77X3.53X	4.75
6	165X5.0	**F37-196-165X5.0TTCF**	150.8	34	IN96-165X5.0TTCF	OR158.42X2.62X	8.36
8	220X6.0	**F37-1128-220X6.0TTCF**			on request		
10	273X6.0	**F37-1160-273X6.0TTCF**			on request		

Other sizes on request.

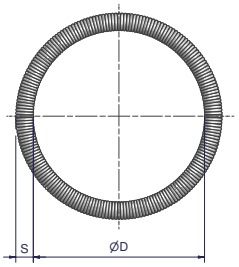
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-124-50X3.0TTCF
Stainless Steel	SS	F37-124-50X3.0TTSS

R – Retaining ring

SAE 1000/ISO 6162-1 footprint

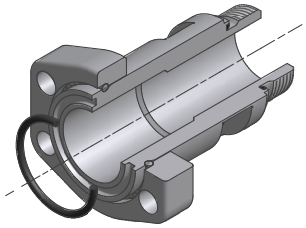
Size Inch	Order code	S	D
1 1/2	**R124X**	4.0	56.0
2	**R132X**	4.0	66.0
2 1/2	**R140X**	4.0	77.0
3	**R148X**	5.0	93.0
3 1/2	**R156X**	5.0	110.0
4	**R164X**	5.0	120.0
5	**R180X**	6.0	144.0
6	**R196X**	6.0	174.0
8	**R1128X**	8.0	232.0
10	**R1160X**	8.0	286.0

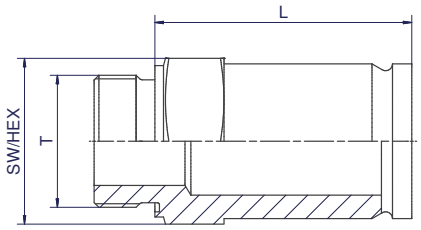


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MTF-R – Male thread adapter, BSPP

SAE 1000/ISO 6162-1 footprint





Size Inch	Complete part Order code	Body incl. ED-Seal Order code	L	T	SW/ HEX	Weight body (Steel) kg/1 piece
1 1/2	**R-124MTFRCF**	MTF124ROMDCF	93	G 1 1/2 A	60	1.29
1 1/2	**R-124MTFR11/4CF**	MTF124R11/4OMDCF	95	G 1 1/4 A	60	1.32
2	**R-132MTFR2CF**	MTF132R2OMDCF	97	G 2 A	60	1.83
2	**R-132MTFR11/2CF**	MTF132R11/2OMDCF	99	G 1 1/2 A	60	1.72
2 1/2	**R-140MTFR2CF**	MTF140R2OMDCF	136	G 2 A	85	3.32
2 1/2	**R-140MTFRCF**	MTF140ROMDCF	134	G 2 1/2 A	85	3.34
3	**R-148MTFR21/2CF**	MTF148R21/2OMDCF	147	G 2 1/2 A	100	4.63
3	**R-148MTFRCF**	MTF148ROMDCF	145	G 3 A	100	4.97

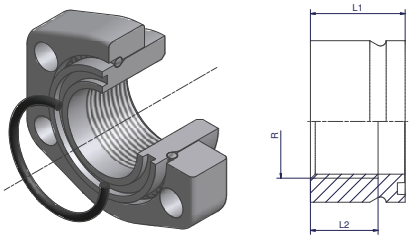
Other sizes on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-120MTFR1CF
Stainless steel	SS	R-120MTFR1SS

FTF-R – Female thread adapter, BSPP

SAE 1000/ISO 6162-1 footprint



Size Inch	Complete part Order code	Adapter Order code	L1	L2	R	Weight (Steel) kg/1 kit
1 1/2	**R-124FTFR11/4CF**	FTF124R11/4CFX	45	30	G 1 1/4	0.54
2	**R-132FTFR11/2CF**	FTF132R11/2CFX	55	40	G 1 1/2	0.92
2 1/2	**R-140FTFR2CF**	FTF140R2CFX	80	40	G 2	1.58
3	**R-148FTFR21/2CF**	FTF148R21/2CFX	85	50	G 2 1/2	2.18

Other sizes on request.

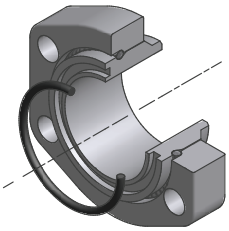
Please change suffixes according to material/surface required

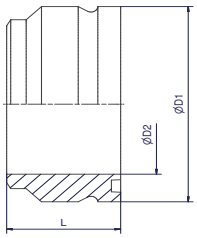
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-120FTFR1CF
Stainless steel	SS	R-120FTFR1SS

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WA – Weld adapter connection

SAE 1000/ISO 6162-1 footprint





Size Inch	Tube	Complete Part Order code	Weld Adapter Body Order code	Flange Order code	Retaining Ring	O-Ring	D1	D2	L	Weight (Steel) kg/1 kit
1 1/2	50.0X3.0	**R-124WA-50X3.0S**	WA124-50X3.0SX	R-124-CFX	R124X	OR47.22X3.53X	59.7	39.8	35.0	0.80
1 1/2	48.3X2.6	**R-124WA-48.3X2.6S**	WA124-48.3X2.6SX	R-124-CFX	R124X	OR47.22X3.53X	59.7	39.8	35.0	0.80
2	60.0X3.0	**R-132WA-60X3.0S**	WA132-60X3.0SX	R-132-CFX	R132X	OR56.75X3.53X	69.7	50.0	35.0	0.99
2	60.3X2.9	**R-132WA-60.3X2.9S**	WA132-60.3X2.9SX	R-132-CFX	R132X	OR56.75X3.53X	69.7	50.0	35.0	0.99
2 1/2	75.0X3.0	**R-140WA-75X3.0S**	WA140-75X3.0SX	R-140-CFX	R140X	OR69.44X3.53X	80.7	62.0	35.0	1.21
2 1/2	76.1X3.2	**R-140WA-76.1X3.2S**	WA140-76.1X3.2SX	R-140-CFX	R140X	OR69.44X3.53X	80.7	62.0	35.0	1.21
3	88.9X3.05	**R-148WA-88.9X3.05S**	WA148-88.9X3.05SX	R-148-CFX	R148X	OR85.32X3.53X	97.7	77.8	40.0	1.92
3	88.9X3.6	**R-148WA-88.9X3.6S**	WA148-88.9X3.6SX	R-148-CFX	R148X	OR85.32X3.53X	97.7	77.8	40.0	1.92
3 1/2	100X4.0	**R-156WA-100X4.0S**	WA156-100X4.0SX	R-156-CFX	R156X	OR98.02X3.53X	114.7	89.8	40.0	2.70
4	114.3X4.5	**R-164WA-114.3X4.5S**	WA164-114.3X4.5SX	R-164-CFX	R164X	OR110.72X3.53X	124.7	99.8	40.0	3.11
4	115X4.0	**R-164WA-115X4.0S**	WA164-115X4.0SX	R-164-CFX	R164X	OR110.72X3.53X	124.7	99.8	40.0	3.09
5	139.7X5.6	**R-180WA-139.7X5.6S**	WA180-139.7X5.6SX	R-180-CFX	R180X	OR136.12X3.53X	149.7	124.8	45.0	4.92
5	140X4.5	**R-180WA-140X4.5S**	WA180-140X4.5SX	R-180-CFX	R180X	OR136.12X3.53X	149.7	124.8	45.0	4.87
5	141.3X3.4	**R-180WA-141.3X3.4S**	WA180-141.3X3.4SX	R-180-CFX	R180X	OR136.12X3.53X	149.7	124.8	45.0	4.91
6	165X5.0	**R-196WA-165X5.0S**	WA196-165X5.0SX	R-196-CFX	R196X	OR158.34X3.53X	179.7	149.8	50.0	8.02
6	168.3X2.77	**R-196WA-168.3X2.77S**	WA196-168.3X2.77SX	R-196-CFX	R196X	OR158.34X3.53X	179.7	149.8	50.0	8.06
6	168.3X3.4	**R-196WA-168.3X3.4S**	WA196-168.3X3.4SX	R-196-CFX	R196X	OR158.34X3.53X	179.7	149.8	50.0	8.06
8	219.1X3.76	**R-1128WA-219.1X3.76S**	WA1128-219.1X3.76SX	R-1128-CFX	R1128X	OR219.3X5.7X	239.7	206.5	60.0	13.55
8	219.1X8.18	**R-1128WA-219.1X8.18S**	WA1128-219.1X8.18SX	R-1128-CFX	R1128X	OR219.3X5.7X	239.7	206.5	60.0	13.55
8	220X6.0	**R-1128WA-220X6.0S**	WA1128-220X6.0SX	R-1128-CFX	R1128X	OR219.3X5.7X	239.7	208.0	60.0	13.62
10	273X6.0	**R-1160WA-273X6S**	WA1160-273X6SX	R-1160-CFX	R1160X	OR269.3X5.7X	295.0	255.0	70.0	32.23
10	274.1X9.27	**R-1160WA-274.1X9.27S**	WA1160-274.1X9.27SX	R-1160-CFX	R1160X	OR269.3X5.7X	295.0	255.0	70.0	32.39

Other sizes on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel	S	R-124WA-50x3.0S
Stainless steel	SS	R-124WA-50x3.0SS

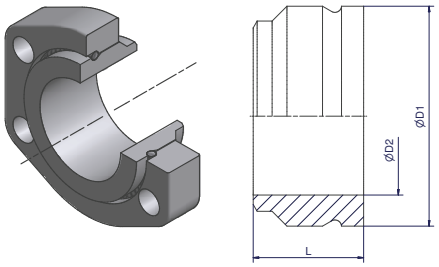
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Parflange® F37 – SAE 1000/ISO 6162-1 footprint

WAF – Weld adapter flat connection

SAE 1000/ISO 6162-1 footprint



Size Inch	Tube	Complete Part Order code	Weld Adapter Body Order code	Flange Order code	Retaining Ring	D1	D2	L	Weight (Steel) kg/1 kit
1 1/2	50.0X3.0	**R-124WA-50X3.0FS**	WA124-50X3.0FSX	R-124-CFX	R124X	59.7	39.8	35.0	0.80
1 1/2	48.3X2.6	**R-124WA-48.3X2.6FS**	WA124-48.3X2.6FSX	R-124-CFX	R124X	59.7	39.8	35.0	0.80
2	60.0X3.0	**R-132WA-60X3.0FS**	WA132-60X3.0FSX	R-132-CFX	R132X	69.7	50.0	35.0	0.99
2	60.3X2.9	**R-132WA-60.3X2.9FS**	WA132-60.3X2.9FSX	R-132-CFX	R132X	69.7	50.0	35.0	1.01
2 1/2	75.0X3.0	**R-140WA-75X3.0FS**	WA140-75.0X3.0FSX	R-140-CFX	R140X	80.7	62.0	35.0	1.21
2 1/2	76.1X3.2	**R-140WA-76.1X3.2FS**	WA140-76.1X3.2FSX	R-140-CFX	R140X	80.7	62.0	35.0	1.21
3	88.9X3.05	**R-148WA-88.9X3.05FS**	WA148-88.9X3.05FSX	R-148-CFX	R148X	97.7	77.8	40.0	1.94
3	88.9X3.6	**R-148WA-88.9X3.6FS**	WA148-88.9X3.6FSX	R-148-CFX	R148X	97.7	77.8	40.0	1.94
3 1/2	100X4.0	**R-156WA-100X4.0FS**	WA156-100X4.0FSX	R-156-CFX	R156X	114.7	89.8	40.0	2.73
4	114.3X4.5	**R-164WA-114.3X4.5FS**	WA164-114.3X4.5FSX	R-164-CFX	R164X	124.7	99.8	40.0	3.15
4	115X4.0	**R-164WA-115X4.0FS**	WA164-115X4.0FSX	R-164-CFX	R164X	124.7	99.8	40.0	3.13
5	139.7X5.6	**R-180WA-139.7X5.6FS**	WA180-139.7X5.6FSX	R-180-CFX	R180X	149.7	124.8	45.0	4.96
5	140X4.5	**R-180WA-140X4.5FS**	WA180-140x4.5FSX	R-180-CFX	R180X	149.7	124.8	45.0	4.92
5	141.3X3.4	**R-180WA-141.3X3.4FS**	WA180-141.3X3.4FSX	R-180-CFX	R180X	149.7	124.8	45.0	4.93
6	165X5.0	**R-196WA-165X5.0FS**	WA196-165X5.0FSX	R-196-CFX	R196X	179.7	149.8	50.0	8.08
6	168.3X2.77	**R-196WA-168.3X2.77FS**	WA196-168.3X2.77FSX	R-196-CFX	R196X	179.7	149.8	50.0	8.16
6	168.3X3.4	**R-196WA-168.3X3.4FS**	WA196-168.3X3.4FSX	R-196-CFX	R196X	179.7	149.8	50.0	8.16
8	219.1X3.76	**R-1128WA-219.1X3.76FS**	WA1128-219.1X3.76FSX	R-1128-CFX	R1128X	239.7	206.5	60.0	13.75
8	219.1X8.18	**R-1128WA-219.1X8.18FS**	WA1128-219.1X8.18FSX	R-1128-CFX	R1128X	239.7	206.5	60.0	13.75
8	220X6.0	**R-1128WA-220X6.0FS**	WA1128-220X6.0FSX	R-1128-CFX	R1128X	239.7	208.0	60.0	13.81
10	273X6.0	**R-1160WA-273X6FS**	WA1160-273X6FSX	R-1160-CFX	R1160X	295.0	255.0	70.0	32.47
10	274.1X9.27	**R-1160WA-274.1X9.27FS**	WA1160-274.1X9.27FSX	R-1160-CFX	R1160X	295.0	255.0	70.0	32.49

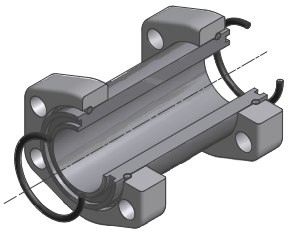
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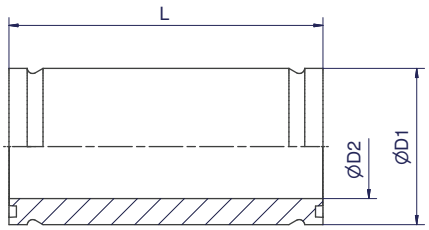
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel	S	R-124WA-50X3.0FS
Stainless steel	SS	R-124WA-50X3.0FSS

BF – Bulkhead flange, soft sealed

SAE 1000/ISO 6162-1 footprint





Size Inch	Complete Part Order code	Bulkhead Body Order code	O-Ring	D1	D2	L	Weight body (Steel) kg/1 piece
1 1/2	**R-124LBFS**	BF124SX	OR47.22X3.53X	59.7	39.8	165	1.96
2	**R-132LBFS**	BF132SX	OR56.75X3.53X	69.7	50.0	165	2.34
2 1/2	**R-140LBFS**	BF140SX	OR69.44X3.53X	80.7	62.0	175	2.81
3	**R-148LBFS**	BF148SX	OR85.32X3.53X	97.7	77.8	200	4.20
3 1/2	**R-156LBFS**	BF156SX	OR98.02X3.53X	114.7	89.8	200	6.15
4	**R-164LBFS**	BF164SX	OR110.72X3.53X	124.7	99.8	200	6.75
5	**R-180LBFS**	BF180SX	OR136.12X3.53X	149.7	124.8	200	8.22
6	**R-196LBFS**	BF196SX	OR158.34X3.53X	179.7	149.8	215	12.81
8	**R-1128LBFS**	BF1128SX	OR219.3X5.7X	239.7	206.5	240	21.18
10	**R-1160LBFS**	BF1160SX	OR269.3X5.7X	295.0	255.0	270	35.59

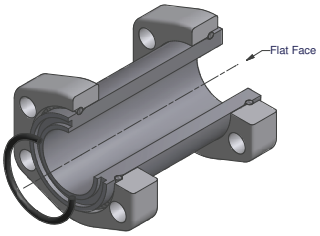
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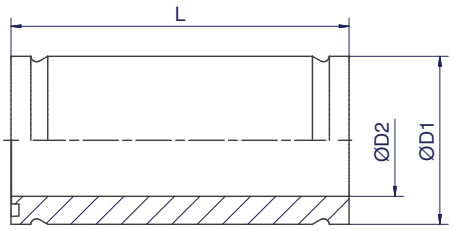
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel	S	R-132LBFS
Stainless steel	SS	R-132LBFSS

BF – Bulkhead flange flat face

SAE 1000/ISO 6162-1 footprint





Size Inch	Complete Part Order code	Bulkhead Body Order code	O-Ring	D1	D2	L	Weight body (Steel) kg/1 piece
1 1/2	**R-124FBFS**	BF124FSX	OR47.22X3.53X	59.7	39.8	165	1.98
2	**R-132FBFS**	BF132FSX	OR56.75X3.53X	69.7	50.0	165	2.34
2 1/2	**R-140FBFS**	BF140FSX	OR69.44X3.53X	80.7	62.0	175	2.81
3	**R-148FBFS**	BF148FSX	OR85.32X3.53X	97.7	77.8	200	4.20
3 1/2	**R-156FBFS**	BF156FSX	OR98.02X3.53X	114.7	89.8	200	6.15
4	**R-164FBFS**	BF164FSX	OR110.72X3.53X	124.7	99.8	200	6.75
5	**R-180FBFS**	BF180FSX	OR136.12X3.53X	149.7	124.8	200	8.22
6	**R-196FBFS**	BF196FSX	OR158.34X3.53X	179.7	149.8	215	12.81
8	**R-1128FBFS**	BF1128FSX	OR219.3X5.7X	239.7	206.5	240	21.18
10	**R-1160FBFS**	BF1160FSX	OR269.3X5.7X	295.0	255.0	270	35.59

Other sizes on request.

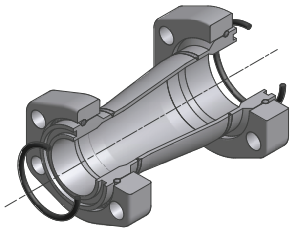
Please change suffixes according to material/surface required

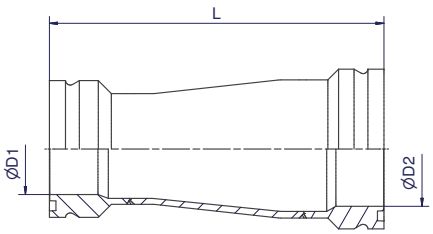
Order code suffixes		
Material	Suffix surface and material	Example
Steel	S	R-132FBFS
Stainless steel	SS	R-132FBFSS

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RF – Reducer flange, soft sealed

SAE 1000/ISO 6162-1 footprint





Size Inch	Complete Part Order code	Reducer Body Order code	O-Ring D1	O-Ring D2	D1	D2	L	Weight body (Steel) kg/1 piece	W.P. bar
2 - 1 1/2	**R-132-124LRFCF**	RF132-124LOMDCF	OR56.75X3.53X	OR47.22X3.53X	39.8	50.3	146	0.91	70
2 1/2 - 1 1/2	**R-140-124LRFCF**	RF140-124LOMDCF	OR69.44X3.53X	OR47.22X3.53X	39.8	62.0	160	1.04	70
2 1/2 - 2	**R-140-132LRFCF**	RF140-132LOMDCF	OR69.44X3.53X	OR56.75X3.53X	50.0	62.0	160	1.25	70
3 - 1 1/2	**R-148-124LRFCF**	RF148-124LOMDCF	OR85.32X3.53X	OR47.22X3.53X	39.8	77.8	165	1.34	70
3 - 2	**R-148-132LRFCF**	RF148-132LOMDCF	OR85.32X3.53X	OR56.75X3.53X	50.0	77.8	165	1.45	70
3 - 2 1/2	**R-148-140LRFCF**	RF148-140LOMDCF	OR85.32X3.53X	OR69.44X3.53X	62.0	77.8	168	1.53	70
3 1/2 - 2 1/2	**R-156-140LRFCF**	RF156-140LOMDCF	OR98.02X3.53X	OR69.44X3.53X	62.0	89.8	177	2.00	50
3 1/2 - 3	**R-156-148LRFCF**	RF156-148LOMDCF	OR98.02X3.53X	OR85.32X3.53X	77.8	89.8	182	2.32	50
4 - 3	**R-164-148LRFCF**	RF164-148LOMDCF	OR110.72X3.53X	OR85.32X3.53X	77.8	99.8	182	2.43	50
5 - 4	**R-180-164LRFCF**	RF180-164LOMDCF	OR136.12X3.53X	OR110.72X3.53X	99.8	124.8	214	3.86	50

Other sizes on request.

Please change suffixes according to material/surface required

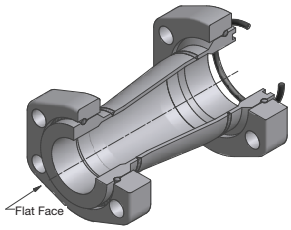
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	RF-132-124-LRFCF
Stainless steel	SS	RF-132-124-LRFSS

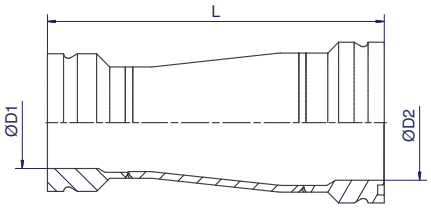
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RF – Reducer flange flat face

SAE 1000/ISO 6162-1 footprint





Size Inch	Complete Part Order code	Reducer Body Order code	O-Ring	D1	D2	L	Weight body (Steel) kg/1 piece	W.P. bar
2 - 1 1/2	**R-132-124FRFCF**	RF132-124FOMDCF	OR56.75X3.53X	39.8	50.0	146	0.91	70
2 1/2 - 1 1/2	**R-140-124FRFCF**	RF140-124FOMDCF	OR69.44X3.53X	39.8	62.0	160	1.04	70
2 1/2 - 2	**R-140-132FRFCF**	RF140-132FOMDCF	OR69.44X3.53X	50.0	62.0	160	1.25	70
3 - 1 1/2	**R-148-124FRFCF**	RF148-124FOMDCF	OR85.32X3.53X	39.8	77.8	165	1.34	70
3 - 2	**R-148-132FRFCF**	RF148-132FOMDCF	OR85.32X3.53X	50.0	77.8	165	1.45	70
3 - 2 1/2	**R-148-140FRFCF**	RF148-140FOMDCF	OR85.32X3.53X	62.0	77.8	168	1.53	70
3 1/2 - 2 1/2	**R-156-140FRFCF**	RF156-140FOMDCF	OR98.02X3.53X	62.0	89.8	177	2.00	50
3 1/2 - 3	**R-156-148FRFCF**	RF156-148FOMDCF	OR98.02X3.53X	77.8	89.8	182	2.32	50
4- 3	**R-164-148FRFCF**	RF164-148FOMDCF	OR110.72X3.53X	77.8	99.8	182	2.43	50
5 - 4	**R-180-164FRFCF**	RF180-164FOMDCF	OR136.12X3.53X	99.8	124.8	214	3.86	50

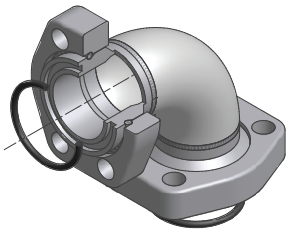
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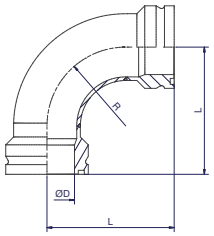
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	RF132-124-FRFCF
Stainless steel	SS	RF132-124-FRFSS

LF – Elbow flange

SAE 1000/ISO 6162-1 footprint





Size Inch	Elbow Flange Complete Part Order code	Elbow Flange body Order code	O-Ring	D	L	R	Weight body (Steel) kg/1 piece	W.P. bar
1 1/2	**R-124LLFCF**	LF124LOMDCF	OR47.22X3.53X	39.8	94	57.0	0.85	70
2	**R-132LLFCF**	LF132LOMDCF	OR56.75X3.53X	50.0	112	76.0	1.18	70
2 1/2	**R-140LLFCF**	LF140LOMDCF	OR69.44X3.53X	62.0	132	95.0	1.54	70
3	**R-148LLFCF**	LF148LOMDCF	OR85.32X3.53X	77.8	155	114.0	2.44	70
3 1/2	**R-156LLFCF**	LF156LOMDCF	OR98.02X3.53X	88.9	184	142.5	3.88	50
4	**R-164LLFCF**	LF164LOMDCF	OR110.72X3.53X	99.8	195	152.0	4.33	50
5	**R-180LLFCF**	LF180LOMDCF	OR136.12X3.53X	124.8	235	190.0	6.81	50
6	**R-196LLFCF**	LF196LOMDCF	OR158.34X3.53X	149.8	304	229.0	11.19	50
8	**R-1128LLFCF**	LF1128LOMDCF	OR219.3X5.7X	206.5	390	305.0	24.13	50
10	**R-1160LLFCF**	LF1160LOMDCF	OR269.3X5.7X	255.0	471	381.0	38.39	50

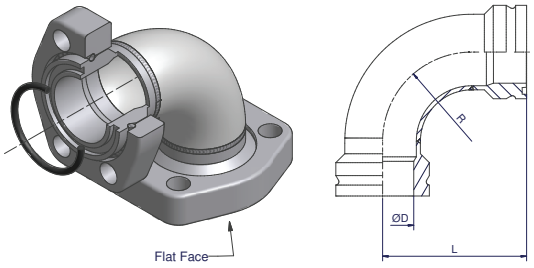
Other sizes on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-124LLFCF
Stainless steel	SS	R-124LLFSS

LF – Elbow flange flat face

SAE 1000/ISO 6162-1 footprint



Size Inch	Elbow Flange Complete Part Order code	Elbow Flange body Order code	O-Ring	D	L	R	Weight body (Steel) kg/1 piece	W.P. bar
1 1/2	**R-124FLFCF**	LF124FOMDCF	OR47.22X3.53X	39.8	94	57.0	0.85	70
2	**R-132FLFCF**	LF132FOMDCF	OR56.75X3.53X	50.0	112	76.0	1.18	70
2 1/2	**R-140FLFCF**	LF140FOMDCF	OR69.44X3.53X	62.0	132	95.0	1.54	70
3	**R-148FLFCF**	LF148FOMDCF	OR85.32X3.53X	77.8	155	114.0	2.44	70
3 1/2	**R-156FLFCF**	LF156FOMDCF	OR98.02X3.53X	88.9	184	142.5	3.88	50
4	**R-164FLFCF**	LF164FOMDCF	OR110.72X3.53X	99.8	195	152.0	4.33	50
5	**R-180FLFCF**	LF180FOMDCF	OR136.12X3.53X	124.8	235	190.0	6.81	50
6	**R-196FLFCF**	LF196FOMDCF	OR158.34X3.53X	149.8	304	229.0	11.19	50
8	**R-1128FLFCF**	LF1128FOMDCF	OR219.3X5.7X	206.5	390	305.0	24.13	50
10	**R-1160FLFCF**	LF1160FOMDCF	OR269.3X5.7X	255.0	471	381.0	38.39	50

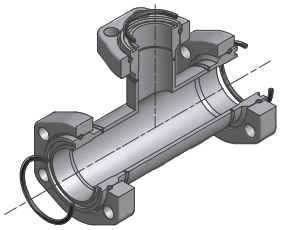
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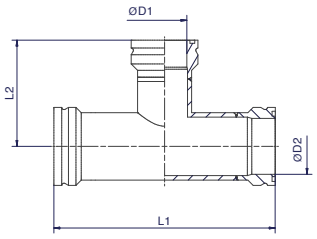
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-124FLFCF
Stainless steel	SS	R-124FLFSS

TF/TF-R – TEE flange

SAE 1000/ISO 6162-1 footprint





Size Inch	Tee Flange Complete Part Order code	Tee Flange body Order code	O-Ring D1	O-Ring D2	D1	D2	L1	L2	Weight body (Steel) kg/1 piece	W.P. bar
1 1/2	**R-124LTFCF**	TF124L0MDCF	0R47.22X3.53X	0R47.22X3.53X	39.8	39.8	184	92	1.30	70
2-1 1/2-2	**R-132-124-132LTFCF**	TF132-124-132L0MDCF	0R47.22X3.53X	0R56.75X3.53X	39.8	50.0	200	97	1.58	70
2	**R-132LTFCF**	TF132L0MDCF	0R56.75X3.53X	0R56.75X3.53X	50.0	50.0	198	99	1.67	70
2 1/2-2-2 1/2	**R-140-132-140LTFCF**	TF140-132-140L0MDCF	0R56.75X3.53X	0R69.44X3.53X	50.0	62.0	222	105	2.02	70
2 1/2	**R-140LTFCF**	TF140L0MDCF	0R69.44X3.53X	0R69.44X3.53X	62.0	62.0	222	111	2.09	70
3-2 1/2-3	**R-148-140-148LTFCF**	TF148-140-148L0MDCF	0R69.44X3.53X	0R85.32X3.53X	62.0	77.8	252	118	2.91	70
3	**R-148LTFCF**	TF148L0MDCF	0R85.32X3.53X	0R85.32X3.53X	77.8	77.8	252	126	3.22	70
3 1/2-3-3 1/2	**R-156-148-156LTFCF**	TF156-148-156L0MDCF	0R85.32X3.53X	0R98.02X3.53X	77.8	89.8	283	137	4.47	50
3 1/2	**R-156LTFCF**	TF156L0MDCF	0R98.02X3.53X	0R98.02X3.53X	89.8	89.8	283	140	4.86	50
4-3-4	**R-164-148-164LTFCF**	TF164-148-164L0MDCF	0R85.32X3.53X	0R110.72X3.53X	77.8	99.8	293	138	4.84	50
4	**R-164LTFCF**	TF164L0MDCF	0R110.72X3.53X	0R110.72X3.53X	99.8	99.8	293	145	5.37	50
5-4-5	**R-180-164-180LTFCF**	TF180-164-180L0MDCF	0R110.72X3.53X	0R136.12X3.53X	99.8	124.8	340	157	7.39	50
5	**R-180LTFCF**	TF180L0MDCF	0R136.12X3.53X	0R136.12X3.53X	124.8	124.8	341	169	8.04	50
6-5-6	**R-196-180-196LTFCF**	TF196-180-196L0MDCF	0R136.12X3.53X	0R158.34X3.53X	124.8	149.8	426	188	11.49	50
6	**R-196LTFCF**	TF196L0MDCF	0R158.34X3.53X	0R158.34X3.53X	149.8	149.8	439	218	12.87	50
8-6-8	**R-1128-196-1128LTFCF**	TF1128-196-1128L0MDCF	0R158.34X3.53X	0R219.3X5.7X	149.8	206.5	528	243	22.66	50
8	**R-1128LTFCF**	TF1128L0MDCF	0R219.3X5.7X	0R219.3X5.7X	206.5	206.5	529	263	25.58	50
10	**R-1160LTFCF**	TF1160L0MDCF	0R269.3X5.7X	0R269.3X5.7X	255.0	255.0	612	306	40.16	50

Other sizes on request

Please change suffixes according to material/surface required

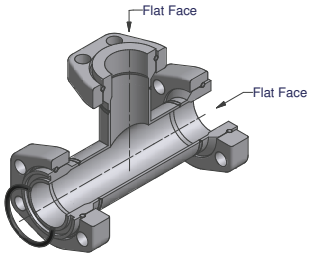
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-124LTFCF
Stainless steel	SS	R-124LTFSS

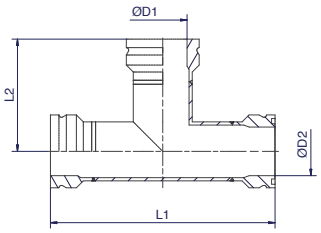
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TF/TF-R – TEE flange flat

SAE 1000/ISO 6162-1 footprint





Size Inch	Tee Flange Complete Part Order code	Tee Flange Body Order code	O-Ring	D1	D2	L1	L2	Weight body (Steel) kg/1 piece	W.P. bar
1 1/2	**R-124FTFCF**	TF124FOMDCF	OR47.22X3.53X	39.8	39.8	184	92	1.30	70
2-1 1/2-2	**R-132-124-132FTFCF**	TF132-124-132FOMDCF	OR56.75X3.53X	39.8	50.0	200	97	1.58	70
2	**R-132FTFCF**	TF132FOMDCF	OR56.75X3.53X	50.0	50.0	198	99	1.67	70
2 1/2-2-21/2	**R-140-132-140FTFCF**	TF140-132-140FOMDCF	OR69.44X3.53X	50.0	62.0	222	105	2.02	70
2 1/2	**R-140FTFCF**	TF140FOMDCF	OR69.44X3.53X	62.0	62.0	222	111	2.09	70
3-2 1/2-3	**R-148-140-148FTFCF**	TF148-140-148FOMDCF	OR85.32X3.53X	62.0	77.8	252	118	2.91	70
3	**R-148FTFCF**	TF148FOMDCF	OR85.32X3.53X	77.8	77.8	252	126	3.22	70
3 1/2-3-3 1/2	**R-156-148-156FTFCF**	TF156-148-156FOMDCF	OR98.02X3.53X	77.8	89.8	283	137	4.47	50
3 1/2	**R-156FTFCF**	TF156FOMDCF	OR98.02X3.53X	89.8	89.8	283	140	4.86	50
4-3-4	**R-164-148-164FTFCF**	TF164-148-164FOMDCF	OR110.72X3.53X	77.8	99.8	293	138	4.84	50
4	**R-164FTFCF**	TF164FOMDCF	OR110.72X3.53X	99.8	99.8	293	145	5.37	50
5-4-5	**R-180-164-180FTFCF**	TF180-164-180FOMDCF	OR136.12X3.53X	99.8	124.8	340	157	7.39	50
5	**R-180FTFCF**	TF180FOMDCF	OR136.12X3.53X	124.8	124.8	341	169	8.04	50
6-5-6	**R-196-180-196FTFCF**	TF196-180-196FOMDCF	OR158.34X3.53X	124.8	149.8	426	188	11.49	50
6	**R-196FTFCF**	TF196FOMDCF	OR158.34X3.53X	149.8	149.8	439	218	12.87	50
8-6-8	**R-1128-196-1128FTFCF**	TF1128-196-1128FOMDCF	OR219.3X5.7X	149.8	206.5	528	243	22.66	50
8	**R-1128FTFCF**	TF1128FOMDCF	OR219.3X5.7X	206.5	206.5	529	263	25.58	50
10	**R-1160FTFCF**	TF1160FOMDCF	OR269.3X5.7X	255.0	255.0	612	306	40.16	50

Other sizes on request.

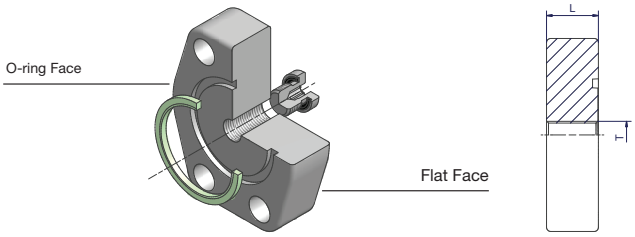
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-124FTFCF
Stainless steel	SS	R-124FTFSS

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BFV – Blind flange

SAE 1000/ISO 6162-1



Size Inch	Flange incl. VSTI-ED and Seal Order code	L	T	Weight body (Steel) kg/1 piece
1 1/2	**F37-124BFVCF**	20	G 1/4	0.9
2	**F37-132BFVCF**	25	G 1/4	1.5
2 1/2	**F37-140BFVCF**	30	G 1/4	2.3
3	**F37-148BFVCF**	30	G 1/4	3.2
3 1/2	**F37-156BFVCF**	30	G 1/4	4.0
4	**F37-164BFVCF**	39	G 1/4	6.1
5	**F37-180BFVCF**	39	G 1/4	8.3
6	**F37-196BFVCF**	39	G 1/4	12.9
8	**F37-1128BFVCF**	39	G 1/4	23.1
10	**F37-1160BFVCF**	50	G 1/4	50.2

Other sizes on request.

Please change suffixes according to material/surface required

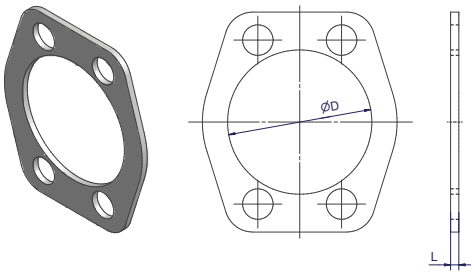
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-124BFVCF
Stainless steel	SS	F37-124BFVSS

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CPML – F37 inner plate

SAE 1000/ISO 6162-1 footprint



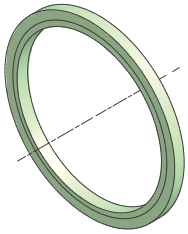
Size Inch	F37 Inner Plate Order code	L	D	Weight (Steel) kg/1 piece
1 1/2	**24CPMLCFX**	3.5	39.8	0.13
2	**32CPMLCFX**	3.5	50.0	0.15
2 1/2	**40CPMLCFX**	3.5	62.0	0.19
3	**48CPMLCFX**	3.5	77.8	0.25
3 1/2	**56CPMLCFX**	3.5	89.8	0.30
4	**64CPMLCFX**	3.5	99.8	0.34
5	**80CPMLCFX**	3.5	124.8	0.41
6	**96CPMLCFX**	3.5	149.8	0.68
8	**128CPMLCFX**	4.5	206.5	1.52
10	**160CPMLCFX**	4.5	255.0	2.75

Other sizes on request.
Please change suffixes according to material/surface required.

Order code suffixes		
Material	Suffix surface and material	Example
Steel	CF	24CPMLCFX
Stainless steel	SS	24CPMLSSX

F37S/F37RS – F37 seal

SAE 1000/ISO 6162-1



Size Inch	F37 Seal (F37 seal for flaring system)
1 1/2	**F37S24X**
2	**F37S32X**
2 1/2	**F37S40X**
3	**F37S48X**
3 1/4	**F37S56X**
4	**F37S64X**
5	**F37S80X**
6	**F37S196X**
8	**F37S1128X**
10	**F37S1160X**

Sealing: Polyurethane
Material properties and applications see page 20.
Other sizes on request.

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Bolts and nuts for flange

SAE 1000/ISO 6162-1 footprint



F37 Flare Flange

Size Inch	Flange	Soft Seal / Flat Face		Nut
		Recommended bolts Tube to Port	Recommended bolts Tube to Tube	
1 1/2	F37-124-CFX	4 x ZYLS12X40	4 x ZYLS12X70	4 x ISO4032-M12
2	F37-132-CFX	4 x ZYLS12X45	4 x ZYLS12X80	4 x ISO4032-M12
2 1/2	F37-140-CFX	4 x ZYLS12X50	4 x ZYLS12X90	4 x ISO4032-M12
3	F37-148-CFX	4 x ZYLS16X60	4 x ZYLS16X100	4 x ISO4032-M16
3 1/2	F37-156-CFX	4 x ZYLS16X60	4 x ZYLS16X100	4 x ISO4032-M16
4	F37-164-CFX	4 x ZYLS16X65	4 x ZYLS16X120	4 x ISO4032-M16
5	F37-180-CFX	4 x ZYLS16X65	4 x ZYLS16X120	4 x ISO4032-M16
6	F37-196-CFX	6 x ZYLS16X65	6 x ZYLS16X110	6 x ISO4032-M16
8	F37-1128-CFX	8 x ZYLS20X80	8 x ZYLS20X145	8 x ISO4032-M20
10	F37-1160-CFX	8 x ZYLS20X80	8 x ZYLS20X150	8 x ISO4032-M20

Retaining Ring Flange

Size Inch	Flange	Soft Seal / Flat Face		Nut
		Recommended bolts Tube to Port	Recommended bolts Tube to Tube	
1 1/2	R-124-CFX	4 x ZYLS12X40	4 x ZYLS12X65	4 x ISO4032-M12
2	R-132-CFX	4 x ZYLS12X40	4 x ZYLS12X65	4 x ISO4032-M12
2 1/2	R-140-CFX	4 x ZYLS12X40	4 x ZYLS12X65	4 x ISO4032-M12
3	R-148-CFX	4 x ZYLS16X50	4 x ZYLS16X80	4 x ISO4032-M16
3 1/2	R-156-CFX	4 x ZYLS16X55	4 x ZYLS16X90	4 x ISO4032-M16
4	R-164-CFX	4 x ZYLS16X55	4 x ZYLS16X90	4 x ISO4032-M16
5	R-180-CFX	4 x ZYLS16X70	4 x ZYLS16X110	4 x ISO4032-M16
6	R-196-CFX	6 x ZYLS16X70	6 x ZYLS16X110	6 x ISO4032-M16
8	R-1128-CFX	8 x ZYLS20X70	8 x ZYLS20X120	8 x ISO4032-M20
10	R-1160-CFX	8 x ZYLS20X80	8 x ZYLS20X150	8 x ISO4032-M20

Bolts and nuts are not included in complete part numbers.

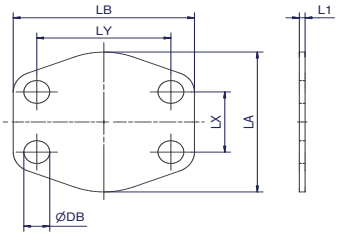
Latest information about nuts and bolts see www.parker.com/hpce -> Support -> Literature and Reference Materials -> Manuals

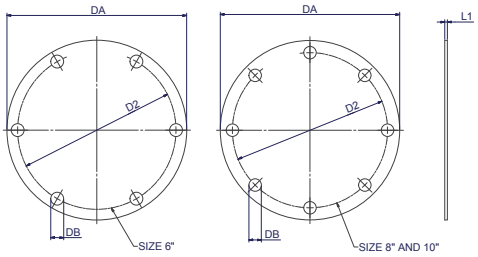
Please add the suffixes according to the bolt quality

	Steel		Stainless Steel
Grade	8.8	10.9	A4-80X
Bolt	ZYLS16X60VZX	ZYLS16X60109X	ZYLS16X60A4-80X
Nut	ISO4032-M12-8VZX	ISO4032-M12-10X	ISO4032-M12-80X

AP – SAE flange locking plate

SAE 1000/ISO 6162-1





Nom. flange size		Order code	L1	LA	LB	LX	LY	DB	Weight body (Steel) kg/1 piece
SAE (In)	ISO (DN)								
1 1/2	38	**24AP1**	3	83	94	35.7	69.9	13.5	0.02
2	51	**32AP1**	3	97	102	42.9	77.8	13.5	0.02
2 1/2	64	**40AP1**	3	109	114	50.8	88.9	13.5	0.03
3	76	**48AP1**	4	131	135	61.9	106.4	17.0	0.06
3 1/2	89	**56AP1**	4	140	152	69.9	120.7	17.0	0.07
4	102	**64AP1**	4	146	162	77.8	130.2	17.0	0.08
5	127	**80AP1**	4	181	184	92.1	152.4	17.0	0.11
				DA		D2		DB	
6		**96AP1**	3.5	236		208		17.0	1.33
8		**128AP1**	4	318		275		22.0	2.40
10		**160AP1**	4	409		345		22.0	4.04

This flange locking plate to be not used under pressure!

Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Description
Steel, zinc plated, Cr(VI)-free	CF	8AP1CF	only locking plate
Stainless steel	SS	8AP1SS	only locking plate
Steel (zinc plated, Cr(VI)-free), SBR 70 Shore A	CFSBR70	8AP1CFSBR70	locking incl. rubber plate L1 increases due to rubber plate

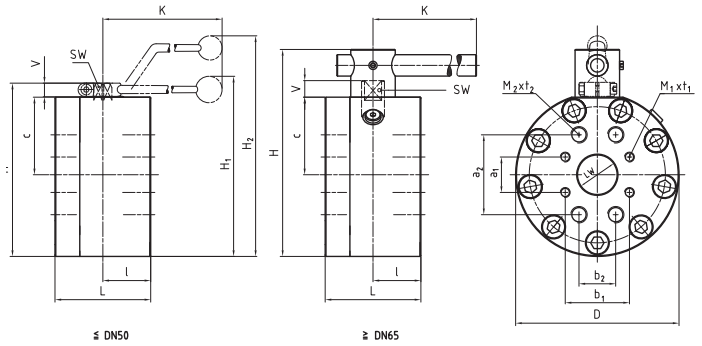
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KH - Ball valve drilled and tapped for SAE Flanges

SAE 1000/ISO 6162-1 footprint

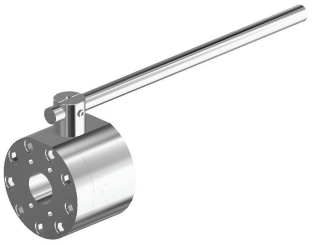
Material Steel

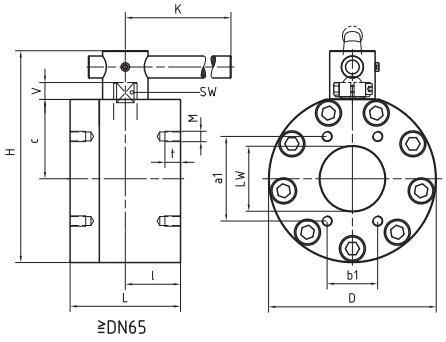




Size Inch	Order code	DN	LW	L	l	D	H	c	V	K	SW	SAE 3000 boring pattern				SAE 6000 boring pattern				H1	H2	Material Code	Lever	Weight-kg	W.P. bar
												a1	b1	M1	t1	a2	b2	M2	t2						
1 1/2	**KH24-38CF**	40	38	110	55	165	178	78	17	306	17	35.7	69.9	M12	20	79.4	36.5	M16	27	-	252	**212A**	St	17.10	210/420
2	**KH32-48CF**	50	48	116	58	198	210	94	17	306	17	42.9	77.8	M12	20	96.8	44.5	M20	28	-	284	**212A**	St	24.60	210/420
2 1/2	**KH40-63CF**	65	63	170	75	218	275	100	20	600	16	88.9	50.8	M12	19	123.8	58.7	M24	41	-	-	**282A**	St	44.40	175/420
3	**KH48-76CF**	80	76	170	79	258	315	115	26	600	19	106.4	61.9	M16	24	152.4	71.4	M30	47	-	-	**282A**	St	54.90	160/420

Steel ball valves 1 1/2" up to 3" with SAE 3000 and SAE 6000 boring pattern.
The bore pattern for 2 1/2" and 3" is turned to 90°.





Size Inch	Order code	DN	LW	L	l	D	H	c	V	K	SW	a1	b1	M	t	Material Code	Lever	Weight-kg	W.P. bar
4	**KH364-100CF**	100	100	170	85	258	326	122	27	900	24	130.2	77.8	M16	24	**282A**	St	60.5	35
5	**KH380-118CF**	125	118	210	105	295	377	140	33	900	36	152.4	92.1	M16	30	**282A**	St	95.5	35

Steel ball valves 4" up to 5" with SAE 3000 only boring pattern.
Other sizes on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	KH32-48CF

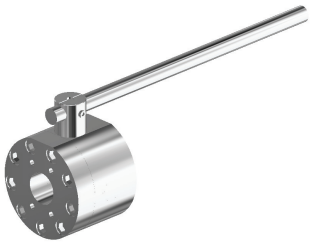
	Material 212A	Material 282A
Body	Steel	Steel
Ball	Steel	Steel
Stem	Steel	Stainless Steel
Ball seats	POM	POM
O-Ring	NBR	NBR
Tmin / Tmax	-10°C / 100°C	-10°C / 100°C

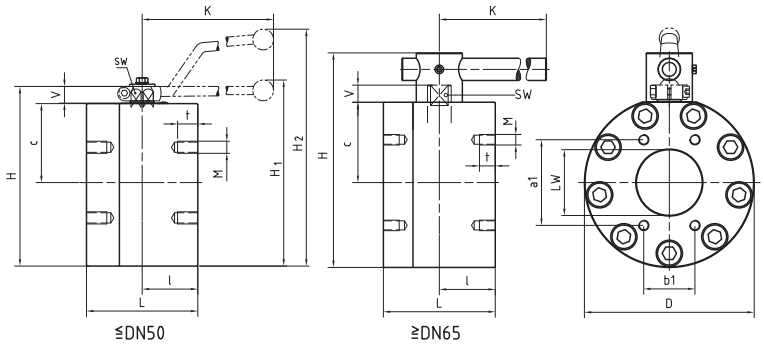
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KH - Ball valve drilled and tapped for SAE Flanges

SAE 1000/ISO 6162-1 footprint
Material Stainless Steel





Size Inch	Order code	DN	LW	L	I	D	H	c	V	K	SW	a1	b1	M	t	H1	H2	Material Code	Lever	Weight-kg	W.P. bar
1 1/2	**KH324-38SS**	40	38	110	55	165	178	78	17	320	17	69.9	35.7	M12	20	187	-	**442A**	Al	17.1	210
2	**KH332-48SS**	50	48	116	58	198	210	94	17	320	17	77.8	42.9	M12	20	219	-	**442A**	Al	24.6	210
2 1/2	**KH340-63SS**	65	63	150	75	198	259	94	20	600	16	88.9	50.8	M12	19	-	-	**442A**	St	33.5	175
3	**KH348-76SS**	80	76	150	79	218	284	104	26	600	19	106.4	61.9	M16	24	-	-	**442A**	St	40.0	160
4	**KH364-100SS**	100	100	170	85	258	326	122	27	900	24	130.2	77.8	M16	24	-	-	**442A**	St	60.5	35
5	**KH380-118SS***	125	118	210	105	295	377	140	33	900	36	152.4	92.1	M16	30	-	-	**442A**	St	95.5	35

Other sizes on request.

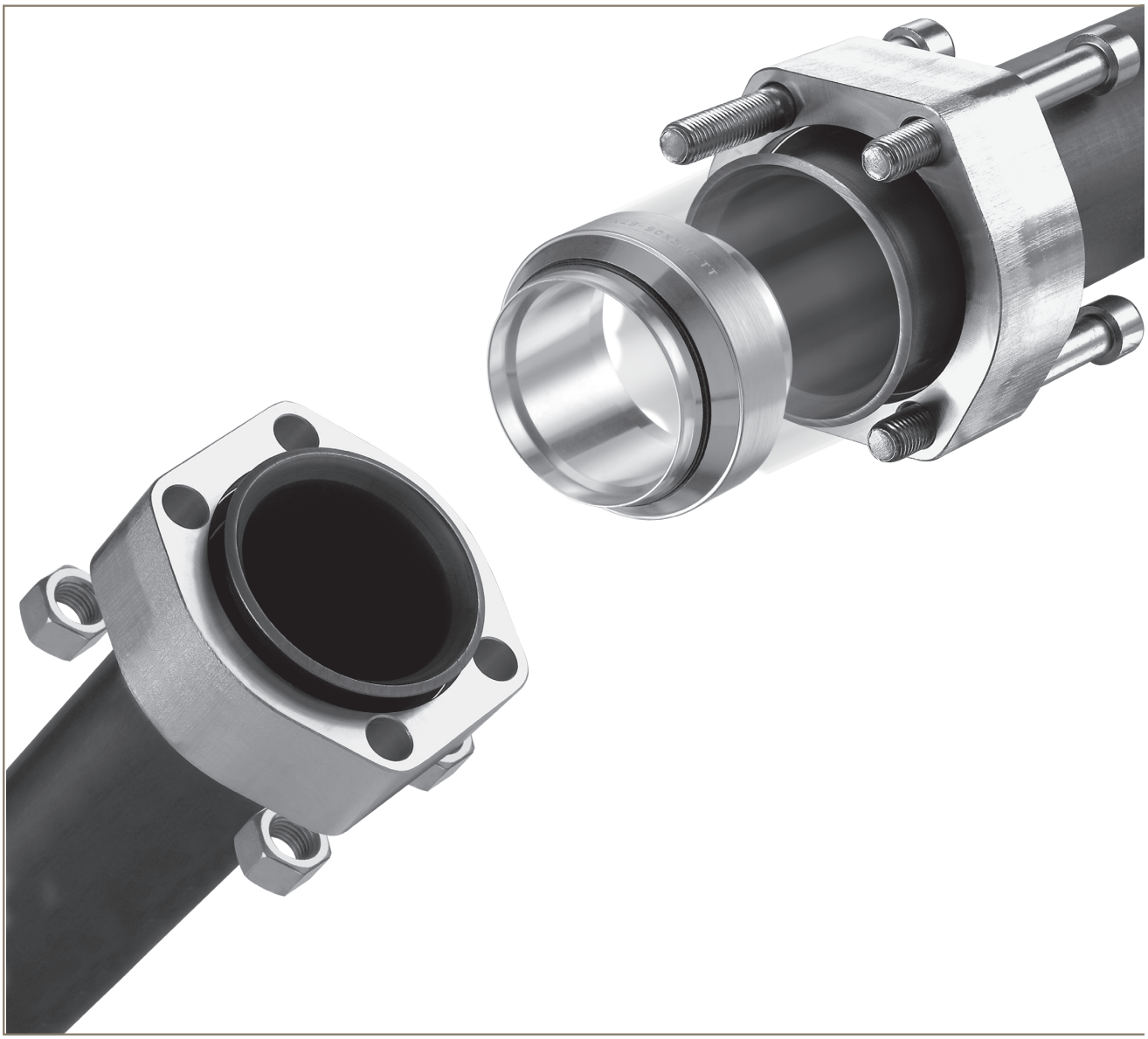
	Material 442A
Body	Stainless Steel
Ball	Stainless Steel
Stem	Stainless Steel
Ball seats	POM
O-Ring	NBR
Tmin / Tmax	-30°C / 100°C

*For these ball valves Tmin / Tmax = -10°C / 100°C

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Stainless steel	SS	KH32-48SS

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SAE 3000 System

210 – 350 bar

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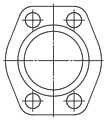
Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

Parflange® F37 – SAE 3000/ISO 6162-1

Programme overview SAE 3000/ISO 6162-1 footprint

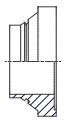
Parflange® F37 connection parts

Flanges



F37 – p.65/66

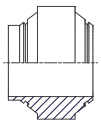
Inserts



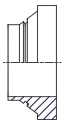
TFB – p.69



TFV – p.70



TT – p.71



TF – p.72

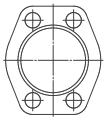
Sleeve



SL – p.73

Retaining ring connection parts

Flanges



R – p.67

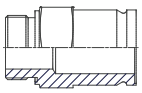


R-Ring – p.74

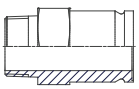


PSC – p.68

Male / Female



MTF-R – p.75

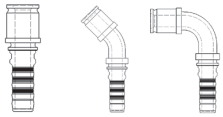


MTF-N – p.76



FTF-R – p.77

Hose



Hose – p.78-80

Weld

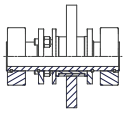


WA – p.81/82

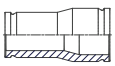
Tube to Tube



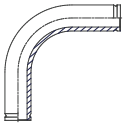
BF – p.83



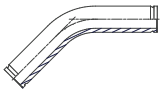
VB – p.84



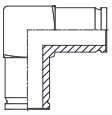
RF – p.85



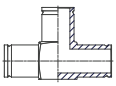
FB90 – p.86/88



FB45 – p.87/89



LF – p.90



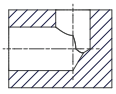
TF – p.91

SAE connection parts

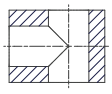
Blocks



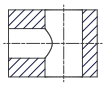
LB – p.92



LBR – p.93



TB – p.94



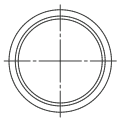
TBR – p.95



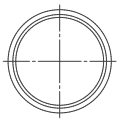
BFV – p.96

Seals Adapter Bolts

Components



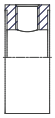
BS – p.97



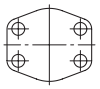
F37S – p.97



AO – p.98

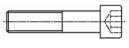


TBT – p.99



AP– p.100

Bolts and Nuts

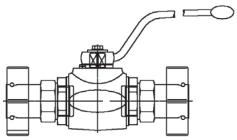


p.101

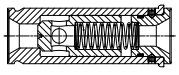
Ball valves



KH – p.102/103



KH-R – p.104

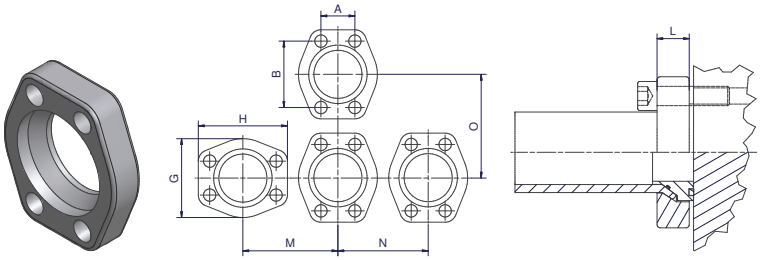


RHD-R – p.105

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F37 – Flare flange | SAE 3000/ISO 6162-1 footprint

SAE 3000/ISO 6162-1



Parflange F37 flange dimensions
*Jump size flanges (no adapter sleeves (SL...) necessary).

Size Inch	Flange Order code	A	B	G	H	M	N	O	L	Weight body (Steel) kg/1 piece	W.P. bar
1/2	**F37-308-CFX**	17.5	38.1	46	54	55	51	59	19	0.17	350
1/2	**F37-308/16-CFX***	17.5	38.1	46	54	55	51	59	19	0.22	350
1/2	**F37-308/20-CFX***	17.5	38.1	46	54	55	51	59	19	0.20	350
3/4	**F37-312-CFX**	22.3	47.6	52	65	63	57	70	20	0.25	350
1	**F37-316-CFX**	26.2	52.4	60	71	69	64	75	24	0.30	350
1	**F37-316/25-CFX***	26.2	52.4	60	71	69	64	75	24	0.45	350
1	**F37-316/30-CFX***	26.2	52.4	60	71	69	64	75	24	0.39	350
1 1/4	**F37-320-CFX**	30.2	58.7	68	79	81	78	84	22	0.46	280
1 1/4	**F37-320/38-CFX***	30.2	58.7	68	79	81	78	84	22	0.46	280
1 1/2	**F37-324-CFX**	35.7	69.9	78	93	93	87	99	25	0.68	280
1 1/2	**F37-324/42-CFX***	35.7	69.9	78	93	93	87	99	25	0.75	280
2	**F37-332-CFX**	42.9	77.8	97	102	104	102	107	33	0.98	280
2 1/2	**F37-340-CFX**	50.8	88.9	109	116	117	114	120	44	1.63	210
3	**F37-348-CFX**	61.9	106.4	132	135	138	136	141	50	2.79	210

Parflange F37 threaded flange dimensions
*Jump size flanges (no adapter sleeves (SL...) necessary).

Size Inch	Flange Order code	A	B	G	H	M	N	O	L	Thread	Weight body (Steel) kg/1 piece	W.P. bar
1/2	**F37-308T-CFX**	17.5	38.1	46	54	55	51	59	19	M08	0.17	350
3/4	**F37-312T-CFX**	22.3	47.6	52	65	63	57	70	20	M10	0.25	350
1	**F37-316T-CFX**	26.2	52.4	60	71	69	64	75	24	M10	0.30	350
1	**F37-316/30T-CFX***	26.2	52.4	60	71	69	64	75	24	M10	0.39	350
1 1/4	**F37-320T-CFX**	30.2	58.7	68	79	81	78	84	22	M10	0.46	280
1 1/4	**F37-320/38T-CFX***	30.2	58.7	68	79	81	78	84	22	M10	0.46	280
1 1/2	**F37-324T-CFX**	35.7	69.9	78	73	93	87	99	25	M10	0.68	280
2	**F37-332T-CFX**	42.9	77.8	97	102	104	102	107	33	M12	0.98	280
2 1/2	**F37-340T-CFX**	50.8	88.9	109	116	117	114	120	44	M12	1.63	210
3	**F37-348T-CFX**	61.9	106.4	132	135	138	136	141	50	M16	2.87	210

Pressure rates related to flanges. Other sizes / jump sizes on request.

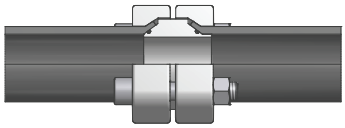
Please change suffixes according to material/surface required

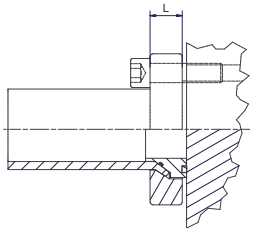
Order code suffixes			
Material	Suffix surface and material	Example	Comments
Steel, zinc plated, Cr(VI)-free	CF	F37-320-CFX	
Stainless steel	SS	F37-320-SSX	
Galvanized hot dip zinc	TZN	F37-320-TZNX (Not for threaded flanges available)	on request

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Parflange® F37 – SAE 3000/ISO 6162-1





Part combination flaring SAE 3000

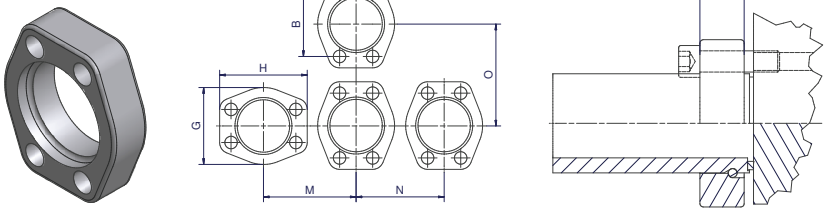
Flange Pressure (bar)	Size Inch	Pipe Size	Flange SAE 3000 ISO 6162-1	Insert*	Sleeve
350	1/2	16X2.0	F37-308-CFX	IN08-16X2.0T...	SL08-25-16-CFX**
	1/2	18X2.0	F37-308-CFX	IN08-18X2.0T...	SL08-25-18-CFX
	1/2	20X2.0	F37-308-CFX	IN08-20X2.0T...	SL08-25-20-CFX**
	1/2	20X2.5	F37-308-CFX	IN08-20X2.5T...	SL08-25-20-CFX**
	1/2	25X2.5	F37-308-CFX	IN08-25X2.5T...	
	1/2	25X3.0	F37-308-CFX	IN08-25X3.0T...	
	3/4	20X2.0	F37-312-CFX	IN12-20X2.0T...	SL12-30-20-CFX
	3/4	20X2.5	F37-312-CFX	IN12-20X2.5T...	SL12-30-20-CFX
	3/4	25X2.5	F37-312-CFX	IN12-25X2.5T...	SL12-30-25-CFX
	3/4	25X3.0	F37-312-CFX	IN12-25X3.0T...	SL12-30-25-CFX
	3/4	30X3.0	F37-312-CFX	IN12-30X3.0T...	
	3/4	30X4.0	F37-312-CFX	IN12-30X4.0T...	
	1	25X2.5	F37-316-CFX	IN16-25X2.5T...	SL16-38-25-CFX**
	1	25X3.0	F37-316-CFX	IN16-25X3.0T...	SL16-38-25-CFX**
	1	30X3.0	F37-316-CFX	IN16-30X3.0T...	SL16-38-30-CFX**
	1	30X4.0	F37-316-CFX	IN16-30X4.0T...	SL16-38-30-CFX**
	1	38X2.5	F37-316-CFX	IN16-38X2.5T...	
	1	38X3.0	F37-316-CFX	IN16-38X3.0T...	
	1	38X4.0	F37-316-CFX	IN16-38X4.0T...	
	1	38X5.0	F37-316-CFX	IN16-38X5.0T...	
280	1 1/4	30X3.0	F37-320-CFX	IN20-30X3.0T...	SL20-42-30-CFX
	1 1/4	30X4.0	F37-320-CFX	IN20-30X4.0T...	SL20-42-30-CFX
	1 1/4	38X3.0	F37-320-CFX	IN20-38X3.0T...	SL20-42-38-CFX**
	1 1/4	38X4.0	F37-320-CFX	IN20-38X4.0T...	SL20-42-38-CFX**
	1 1/4	38X5.0	F37-320-CFX	IN20-38X5.0T...	SL20-42-38-CFX**
	1 1/4	42X3.0	F37-320-CFX	IN20-42X3.0T...	
	1 1/4	42X4.0	F37-320-CFX	IN20-42X4.0T...	
	1 1/2	38X3.0	F37-324-CFX	IN24-38X3.0T...	SL24-50-38-CFX
	1 1/2	38X4.0	F37-324-CFX	IN24-38X4.0T...	SL24-50-38-CFX
	1 1/2	38X5.0	F37-324-CFX	IN24-38X5.0T...	SL24-50-38-CFX
	1 1/2	42X3.0	F37-324-CFX	IN24-42X3.0T...	SL24-50-42-CFX**
	1 1/2	42X4.0	F37-324-CFX	IN24-42X4.0T...	SL24-50-42-CFX**
	1 1/2	50X3.0	F37-324-CFX	IN24-50X3.0T...	
	1 1/2	50X5.0	F37-324-CFX	IN24-50X5.0T...	
	1 1/2	50X6.0	F37-324-CFX	IN24-50X6.0T...	
	2	50X3.0	F37-332-CFX	IN32-50X3.0T...	SL32-60-50-CFX
	2	50X5.0	F37-332-CFX	IN32-50X5.0T...	SL32-60-50-CFX
	2	50X6.0	F37-332-CFX	IN32-50X6.0T...	SL32-60-50-CFX
	2	60X3.0	F37-332-CFX	IN32-60X3.0T...	
	2	60X5.0	F37-332-CFX	IN32-60X5.0T...	
	2	60X6.0	F37-332-CFX	IN32-60X6.0T...	
210	2 1/2	60X3.0	F37-340-CFX	IN40-60X3.0T...	SL40-75-60-CFX
	2 1/2	60X5.0	F37-340-CFX	IN40-60X5.0T...	SL40-75-60-CFX
	2 1/2	60X6.0	F37-340-CFX	IN40-60X6.0T...	SL40-75-60-CFX
	2 1/2	75X3.0	F37-340-CFX	IN40-75X3.0T...	
	2 1/2	75X5.0	F37-340-CFX	IN40-75X5.0T...	
	3	75X3.0	F37-348-CFX	IN48-75X3.0T...	SL48-90-75-CFX
	3	75X5.0	F37-348-CFX	IN48-75X5.0T...	SL48-90-75-CFX
	3	90X3.5	F37-348-CFX	IN48-90X3.5T...	
	3	90X5.0	F37-348-CFX	IN48-90X5.0T...	

Select the complete version:* …FBCF Bonded Seal version …FVCF F37 Seal version …TCF Tube to Tube version …FCF Flat Face version.
**Jump size flanges available alternatively to adapter sleeve, see page 65.

Other sizes like schedule on request.
Bolts and nuts are not included in complete part numbers. For recommended bolts and nuts see page 101.

R – Retaining ring flange | SAE 3000/ISO 6162-1 footprint

SAE 3000/ISO 6162-1



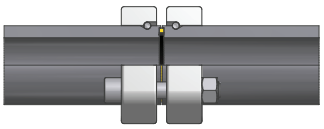
Retaining ring flange dimensions

Size Inch	Order Code	A	B	G	H	M	N	O	L	Weight body (Steel) kg/1 piece	W.P. bar
1/2	**R-308-CFX**	17.5	38.1	46	54	55	51	59	19	0.2	350
3/4	**R-312-CFX**	22.3	47.6	52	65	63	57	70	20	0.2	350
1	**R-316-CFX**	26.2	52.4	59	71	69	64	75	24	0.3	350
1 1/4	**R-320-CFX**	30.2	58.7	73	79	81	78	84	22	0.5	280
1 1/2	**R-324-CFX**	35.7	69.9	83	95	93	87	99	25	0.6	280
2	**R-332-CFX**	42.9	77.8	97	102	104	102	107	33	1.0	280
2 1/2	**R-340-CFX**	50.8	88.9	109	116	117	114	120	44	1.6	210
3	**R-348-CFX**	61.9	106.4	132	135	138	136	141	50	2.5	210

Pressure rates related to flanges.
Other sizes like schedule on request.
For all sizes also threaded flanges available (...T-CFX).

Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Comments
Steel, zinc plated, Cr(VI)-free	CF	R-320-CFX	
Stainless steel	SS	R-320-SSX	
Galvanized hot dip zinc	TZN	R-320-TZNX	on request



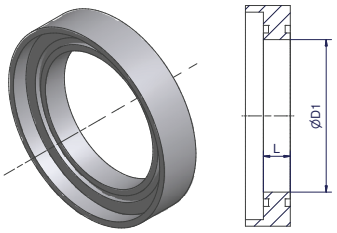
Part combination Bonded seal SAE 3000 connection

Flange pressure (bar)	Size Inch	Pipe Size	Flange	Retaining Ring	Bonded Seal
350	1/2	26X6.0	R-308-CFX	R08X	BS08SNX
	3/4	36X8.0	R-312-CFX	R12X	BS12SNX
	1	39X7.5	R-316-CFX	R16X	BS16SNX
280	1 1/4	46X8.0	R-320-CFX	R20X	BS20SNX
	1 1/2	56X8.5	R-324-CFX	R24X	BS24SNX
	2	66X8.5	R-332-CFX	R32X	BS32SNX
210	2 1/2	80x10.0	R-340-CFX	R40X	BS40SNX
	3	97X12.0	R-348-CFX	R48X	BS48SNX

Bolts and nuts are not included in complete part numbers For recommended bolts and nuts see page 101.

PSC – Pipe seal carrier | SAE 3000/ISO 6162-1 footprint

SAE 3000/ISO 6162-1

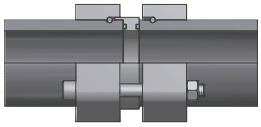


Size Inch	Pipe size	Seal carrier incl. F37 Seal	Seal carrier incl. O-Ring	L	D1	F37 Seal	O-Ring
1 1/4	46X3.0	PSC20-46X8.0VCF	PSC20-46X8.0OCF	8.0	30	F37RS20X	OR34.59X2.62X
1 1/2	56X8.5	PSC24-56X8.5VCF	PSC24-56X8.5OCF	10.0	39	F37RS24X	OR44.12X2.62X
2	66X8.5	PSC32-66X8.5VCF	PSC32-66X8.5OCF	10.0	49	F37RS32X	OR55.25X2.62X
2 1/2	80X10.0	PSC40-80X10VCF	PSC40-80X10OCF	15.0	60	F37RS40X	OR66.27X3.53X
3	97X12.0	PSC48-97X12VCF	PSC48-97X12OCF	15.0	73	F37RS48X	OR78.97X3.53X

Other sizes on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free, F37-Seal	VCF	PSC40-80X10VCF
Stainless steel, F37-Seal	VSS	PSC40-80X10VSS
Steel, zinc plated, Cr(VI)-free, O-Ring (NBR)	OCF	PSC40-80X10OCF
Stainless steel, O-Ring (NBR)	OSS	PSC40-80X10OSS



Example of part combinations Pipe seal carrier SAE 3000 connection

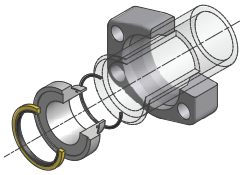
Flange pressure (bar)	Size Inch	Pipe Size	Flange	Retaining Ring	Pipe Seal Carrier
280	1 1/4	46X8.0	R-320-CFX	R20X	PSC20-45X8.0VCF
	1 1/2	56X8.5	R-324-CFX	R24X	PSC24-56X8.5VCF
	2	66X8.5	R-332-CFX	R32X	PSC32-66X8.5VCF
210	2 1/2	80X10.0	R-340-CFX	R40X	PSC40-80X10VCF
	3	97X12.0	R-348-CFX	R48X	PSC48-97X12VCF

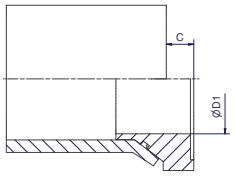
Other sizes on request
Bolts and nuts are not included in complete part numbers.For recommended bolts and nuts see page 101.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

TFB – Flare flange connection

Tube to port connection, bonded seal





Size		Flange* incl. Insert + Bonded Seal + O-Ring Order code	D1	C	Insert incl. Bonded Seal + O-Ring Order code	Bonded Seal Order code	O-Ring Order code	Weight (Steel) kg/1 kit
Inch	Tube							
1/2	16X2.0	**F37-308-16X2.0TFBCF**	9.5	8.0	IN08-16X2.0TFBCF	BS08SNX	OR12X1.0X	0.24
1/2	18X2.0	**F37-308-18X2.0TFBCF**	11.5	8.0	IN08-18X2.0TFBCF	BS08SNX	OR14X1.0X	0.24
1/2	20X2.0	**F37-308-20X2.0TFBCF**	13.5	8.0	IN08-20X2.0TFBCF	BS08SNX	OR16X1.0X	0.24
1/2	20X2.5	**F37-308-20X2.5TFBCF**	13.5	8.0	IN08-20X2.5TFBCF	BS08SNX	OR16X1.0X	0.24
1/2	25X2.5	**F37-308-25X2.5TFBCF**	13.5	10.0	IN08-25X2.5TFBCF	BS08SNX	OR20X1.0X	0.25
1/2	25X3.0	**F37-308-25X3.0TFBCF**	13.0	8.0	IN08-25X3.0TFBCF	BS08SNX	OR20X1.0X	0.24
3/4	20X2.0	**F37-312-20X2.0TFBCF**	13.5	8.0	IN12-20X2.0TFBCF	BS12SNX	OR16X1.0X	0.31
3/4	20X2.5	**F37-312-20X2.5TFBCF**	12.5	8.0	IN12-20X2.5TFBCF	BS12SNX	OR16X1.0X	0.31
3/4	25X2.5	**F37-312-25X2.5TFBCF**	17.5	10.0	IN12-25X2.5TFBCF	BS12SNX	OR20X1.0X	0.31
3/4	25X3.0	**F37-312-25X3.0TFBCF**	16.5	8.0	IN12-25X3.0TFBCF	BS12SNX	OR20X1.0X	0.32
3/4	30X3.0	**F37-312-30X3.0TFBCF**	19.0	8.5	IN12-30X3.0TFBCF	BS12SNX	OR25X1.0X	0.32
3/4	30X4.0	**F37-312-30X4.0TFBCF**	19.0	8.5	IN12-30X4.0TFBCF	BS12SNX	OR22X1.0X	1.32
1	25X2.5	**F37-316-25X2.5TFBCF**	17.5	10.0	IN16-25X2.5TFBCF	BS16SNX	OR20X1.0X	0.39
1	25X3.0	**F37-316-25X3.0TFBCF**	16.5	8.0	IN16-25X3.0TFBCF	BS16SNX	OR20X1.0X	0.39
1	30X3.0	**F37-316-30X3.0TFBCF**	21.5	8.5	IN16-30X3.0TFBCF	BS16SNX	OR25X1.0X	0.39
1	30X4.0	**F37-316-30X4.0TFBCF**	19.5	8.5	IN16-30X4.0TFBCF	BS16SNX	OR22X1.0X	0.39
1	38X2.5	**F37-316-38X2.5TFBCF**	25.0	9.5	IN16-38X2.5TFBCF	BS16SNX	OR34X1.0X	0.41
1	38X3.0	**F37-316-38X3.0TFBCF**	25.0	9.0	IN16-38X3.0TFBCF	BS16SNX	OR34X1.0X	0.40
1	38X4.0	**F37-316-38X4.0TFBCF**	25.0	10.0	IN16-38X4.0TFBCF	BS16SNX	OR30X1.0X	0.40
1	38X5.0	**F37-316-38X5.0TFBCF**	25.0	8.0	IN16-38X5.0TFBCF	BS16SNX	OR28X1.0X	0.39
1 1/4	30X3.0	**F37-320-30X3.0TFBCF**	21.5	8.5	IN20-30X3.0TFBCF	BS20SNX	OR25X1.0X	0.57
1 1/4	30X4.0	**F37-320-30X4.0TFBCF**	19.5	8.5	IN20-30X4.0TFBCF	BS20SNX	OR22X1.0X	0.58
1 1/4	38X3.0	**F37-320-38X3.0TFBCF**	29.5	9.0	IN20-38X3.0TFBCF	BS20SNX	OR34X1.0X	0.56
1 1/4	38X4.0	**F37-320-38X4.0TFBCF**	27.0	10.0	IN20-38X4.0TFBCF	BS20SNX	OR30X1.0X	0.57
1 1/4	38X5.0	**F37-320-38X5.0TFBCF**	25.5	8.0	IN20-38X5.0TFBCF	BS20SNX	OR28X1.0X	0.56
1 1/4	42X3.0	**F37-320-42X3.0TFBCF**	31.5	10.0	IN20-42X3.0TFBCF	BS20SNX	OR37.82X1.78X	0.57
1 1/4	42X4.0	**F37-320-42X4.0TFBCF**	31.5	10.0	IN20-42X4.0TFBCF	BS20SNX	OR34X1.0X	0.56
1 1/2	38x3.0	**F37-324-38X3.0TFBCF**	27.5	9.0	IN24-38X3.0TFBCF	BS20SNX	OR34X1.0X	0.65
1 1/2	38X4.0	**F37-324-38X4.0TFBCF**	27.5	10.0	IN24-38X4.0TFBCF	BS24SNX	OR30.X1.0X	0.87
1 1/2	38X5.0	**F37-324-38X5.0TFBCF**	25.0	8.0	IN24-38X5.0TFBCF	BS24SNX	OR28X1.0X	0.87
1 1/2	42X3.0	**F37-324-42X3.0TFBCF**	35.0	10.0	IN24-42X3.0TFBCF	BS24SNX	OR37.82X1.78X	0.88
1 1/2	42X4.0	**F37-324-42X4.0TFBCF**	31.5	10.0	IN24-42X4.0TFBCF	BS24SNX	OR34X1.0X	0.87
1 1/2	50X3.0	**F37-324-50X3.0TFBCF**	36.0	11.0	IN24-50X3.0TFBCF	BS24SNX	OR44.17X1.78X	0.87
1 1/2	50X5.0	**F37-324-50X5.0TFBCF**	36.0	10.0	IN24-50X5.0TFBCF	BS24SNX	OR41X1.78X	0.87
1 1/2	50X6.0	**F37-324-50X6.0TFBCF**	35.0	10.0	IN24-50X6.0TFBCF	BS24SNX	OR41X1.78X	0.87
2	50X3.0	**F37-332-50X3.0TFBCF**	41.5	11.0	IN32-50X3.0TFBCF	BS32SNX	OR44.17X1.78X	1.20
2	50X5.0	**F37-332-50X5.0TFBCF**	37.5	10.0	IN32-50X5.0TFBCF	BS32SNX	OR41X1.78X	1.22
2	50X6.0	**F37-332-50X6.0TFBCF**	35.0	10.0	IN32-50X6.0TFBCF	BS32SNX	OR41X1.78X	1.25
2	60X3.0	**F37-332-60X3.0TFBCF**	46.0	12.0	IN32-60X3.0TFBCF	BS32SNX	OR53.7X1.78X	1.25
2	60X5.0	**F37-332-60X5.0TFBCF**	46.0	11.0	IN32-60X5.0TFBCF	BS32SNX	OR50.52X1.78X	1.22
2	60X6.0	**F37-332-60X6.0TFBCF**	45.5	11.0	IN32-60X6.0TFBCF	BS32SNX	OR47.37X1.78X	1.21
2 1/2	60X3.0	**F37-340-60X3.0TFBCF**	50.0	12.0	IN40-60X3.0TFBCF	BS40SNX	OR53.7X1.78X	1.98
2 1/2	60X5.0	**F37-340-60X5.0TFBCF**	46.0	11.0	IN40-60X5.0TFBCF	BS40SNX	OR50.52X1.78X	1.99
2 1/2	60X6.0	**F37-340-60X6.0TFBCF**	45.5	11.0	IN40-60X6.0TFBCF	BS40SNX	OR47.37X1.78X	1.97
2 1/2	75X3.0	**F37-340-75X3.0TFBCF**	60.0	10.0	IN40-75X3.0TFBCF	BS40SNX	OR69.57X1.78X	1.93
2 1/2	75X5.0	**F37-340-75X5.0TFBCF**	60.0	10.0	IN40-75X5.0TFBCF	BS40SNX	OR63.22X1.78X	1.95
3	75X3.0	**F37-348-75X3.0TFBCF**	66.0	10.0	IN48-75X3.0TFBCF	BS48SNX	OR69.57X1.78X	3.22
3	75X5.0	**F37-348-75X5.0TFBCF**	62.0	10.0	IN48-75X5.0TFBCF	BS48SNX	OR63.22X1.78X	3.38
3	90X3.5	**F37-348-90X3.5TFBCF**	72.0	15.0	IN48-90X3.5TFBCF	BS48SNX	OR82.27X1.78X	3.39
3	90X5.0	**F37-348-90X5.0TFBCF**	72.0	14.0	IN48-90X5.0TFBCF	BS48SNX	OR79X1.78X	3.35

Other sizes on request. *Incl. adapter sleeve or jump size flange if necessary.

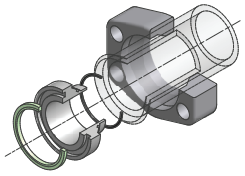
Please change suffixes according to material/surface required

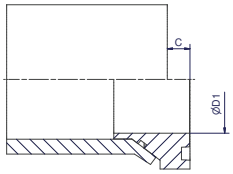
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-324-50X5.0TFBCF
Stainless steel	SS	F37-324-50X5.0TFBSS

Parflange® F37 – SAE 3000/ISO 6162-1

TFV – Flare flange connection

Tube to port connection, F37 seal





Size		Flange* incl. Insert + F37 Seal + O-Ring Order code	D1	C	Insert incl. F37 Seal + O-Ring Order code	F37 Seal Order code	O-Ring Order code	Weight (Steel) kg/1 kit
Inch	Tube							
1/2	16X2.0	**F37-308-16X2.0TFVCF**	9.5	8.0	IN08-16X2.0TFVCF	F37S08X	OR12X1.0X	0.24
1/2	18X2.0	**F37-308-18X2.0TFVCF**	11.5	8.0	IN08-18X2.0TFVCF	F37S08X	OR14X1.0X	0.24
1/2	20X2.0	**F37-308-20X2.0TFVCF**	13.5	8.0	IN08-20X2.0TFVCF	F37S08X	OR16X1.0X	0.24
1/2	20X2.5	**F37-308-20X2.5TFVCF**	13.5	8.0	IN08-20X2.5TFVCF	F37S08X	OR16X1.0X	0.24
1/2	25X2.5	**F37-308-25X2.5TFVCF**	13.5	10.0	IN08-25X2.5TFVCF	F37S08X	OR20X1.0X	0.25
1/2	25X3.0	**F37-308-25X3.0TFVCF**	13.0	8.0	IN08-25X3.0TFVCF	F37S08X	OR20X1.0X	0.24
3/4	20X2.0	**F37-312-20X2.0TFVCF**	13.5	8.0	IN12-20X2.0TFVCF	F37S12X	OR16X1.0X	0.31
3/4	20X2.5	**F37-312-20X2.5TFVCF**	12.5	8.0	IN12-20X2.5TFVCF	F37S12X	OR16X1.0X	0.31
3/4	25X2.5	**F37-312-25X2.5TFVCF**	17.5	10.0	IN12-25X2.5TFVCF	F37S12X	OR20X1.0X	0.31
3/4	25X3.0	**F37-312-25X3.0TFVCF**	16.5	8.0	IN12-25X3.0TFVCF	F37S12X	OR20X1.0X	0.32
3/4	30X3.0	**F37-312-30X3.0TFVCF**	19.0	8.5	IN12-30X3.0TFVCF	F37S12X	OR25X1.0X	0.32
3/4	30X4.0	**F37-312-30X4.0TFVCF**	19.0	8.5	IN12-30X4.0TFVCF	F37S12X	OR22X1.0X	0.32
1	25X2.5	**F37-316-25X2.5TFVCF**	17.5	10.0	IN16-25X2.5TFVCF	F37S16X	OR20X1.0X	0.38
1	25X3.0	**F37-316-25X3.0TFVCF**	16.5	8.0	IN16-25X3.0TFVCF	F37S16X	OR20X1.0X	0.39
1	30X3.0	**F37-316-30X3.0TFVCF**	21.5	8.5	IN16-30X3.0TFVCF	F37S16X	OR25X1.0X	0.41
1	30X4.0	**F37-316-30X4.0TFVCF**	19.5	8.5	IN16-30X4.0TFVCF	F37S16X	OR22X1.0X	0.39
1	38X2.5	**F37-316-38X2.5TFVCF**	25.0	9.5	IN16-38X2.5TFVCF	F37S16X	OR34X1.0X	0.41
1	38X3.0	**F37-316-38X3.0TFVCF**	25.0	9.0	IN16-38X3.0TFVCF	F37S16X	OR34X1.0X	0.40
1	38X4.0	**F37-316-38X4.0TFVCF**	25.0	10.0	IN16-38X4.0TFVCF	F37S16X	OR30X1.0X	0.40
1	38X5.0	**F37-316-38X5.0TFVCF**	25.0	8.0	IN16-38X5.0TFVCF	F37S16X	OR28X1.0X	0.39
1 1/4	30X3.0	**F37-320-30X3.0TFVCF**	21.5	8.5	IN20-30X3.0TFVCF	F37S20X	OR25X1.0X	0.57
1 1/4	30X4.0	**F37-320-30X4.0TFVCF**	19.5	8.5	IN20-30X4.0TFVCF	F37S20X	OR22X1.0X	0.58
1 1/4	38X3.0	**F37-320-38X3.0TFVCF**	29.5	9.0	IN20-38X3.0TFVCF	F37S20X	OR34X1.0X	0.56
1 1/4	38X4.0	**F37-320-38X4.0TFVCF**	27.0	10.0	IN20-38X4.0TFVCF	F37S20X	OR30X1.0X	0.57
1 1/4	38X5.0	**F37-320-38X5.0TFVCF**	25.5	8.0	IN20-38X5.0TFVCF	F37S20X	OR28X1.0X	0.56
1 1/4	42X3.0	**F37-320-42X3.0TFVCF**	31.5	10.0	IN20-42X3.0TFVCF	F37S20X	OR37.82X1.78X	0.57
1 1/4	42X4.0	**F37-320-42X4.0TFVCF**	31.5	10.0	IN20-42X4.0TFVCF	F37S20X	OR34X1.0X	0.56
1 1/2	38X3.0	**F37-324-38X3.0TFVCF**	27.5	9.0	IN24-38X3.0TFVCF	F37S24X	OR34X1.0X	0.87
1 1/2	38X4.0	**F37-324-38X4.0TFVCF**	27.5	10.0	IN24-38X4.0TFVCF	F37S24X	OR30X1.0X	0.87
1 1/2	38X5.0	**F37-324-38X5.0TFVCF**	25.0	8.0	IN24-38X5.0TFVCF	F37S24X	OR41X1.78X	0.87
1 1/2	42X3.0	**F37-324-42X3.0TFVCF**	33.5	10.0	IN24-42X3.0TFVCF	F37S24X	OR37.82X1.78X	0.87
1 1/2	42X4.0	**F37-324-42X4.0TFVCF**	31.5	10.0	IN24-42X4.0TFVCF	F37S24X	OR34X1.0X	0.87
1 1/2	50X3.0	**F37-324-50X3.0TFVCF**	36.0	11.0	IN24-50X3.0TFVCF	F37S24X	OR44.17X1.78X	0.87
1 1/2	50X5.0	**F37-324-50X5.0TFVCF**	36.0	10.0	IN24-50X5.0TFVCF	F37S24X	OR41X1.78X	0.87
1 1/2	50X6.0	**F37-324-50X6.0TFVCF**	35.0	10.0	IN24-50X6.0TFVCF	F37S24X	OR41X1.78X	0.87
2	50X3.0	**F37-332-50X3.0TFVCF**	41.5	11.0	IN32-50X3.0TFVCF	F37S32X	OR44.17X1.78X	1.20
2	50X5.0	**F37-332-50X5.0TFVCF**	37.5	10.0	IN32-50X5.0TFVCF	F37S32X	OR41X1.78X	1.22
2	50X6.0	**F37-332-50X6.0TFVCF**	35.0	10.0	IN32-50X6.0TFVCF	F37S32X	OR41X1.78X	1.25
2	60X3.0	**F37-332-60X3.0TFVCF**	46.0	12.0	IN32-60X3.0TFVCF	F37S32X	OR53.7X1.78X	1.25
2	60X5.0	**F37-332-60X5.0TFVCF**	46.0	11.0	IN32-60X5.0TFVCF	F37S32X	OR50.52X1.78X	1.22
2	60X6.0	**F37-332-60X6.0TFVCF**	45.5	11.0	IN32-60X6.0TFVCF	F37S32X	OR47.37X1.78X	1.21
2 1/2	60X3.0	**F37-340-60X3.0TFVCF**	50.0	12.0	IN40-60X3.0TFVCF	F37S40X	OR53.7X1.78X	1.98
2 1/2	60X5.0	**F37-340-60X5.0TFVCF**	46.0	11.0	IN40-60X5.0TFVCF	F37S40X	OR50.52X1.78X	1.99
2 1/2	60X6.0	**F37-340-60X6.0TFVCF**	45.5	11.0	IN40-60X6.0TFVCF	F37S40X	OR47.37X1.78X	1.97
2 1/2	75X3.0	**F37-340-75X3.0TFVCF**	60.0	10.0	IN40-75X3.0TFVCF	F37S40X	OR69.57X1.78X	1.93
2 1/2	75X5.0	**F37-340-75X5.0TFVCF**	60.0	10.0	IN40-75X5.0TFVCF	F37S40X	OR63.22X1.78X	1.95
3	75X3.0	**F37-348-75X3.0TFVCF**	66.0	10.0	IN48-75X3.0TFVCF	F37S48X	OR69.57X1.78X	3.22
3	75X5.0	**F37-348-75X5.0TFVCF**	62.0	10.0	IN48-75X5.0TFVCF	F37S48X	OR63.22X1.78X	3.38
3	90X3.5	**F37-348-90X3.5TFVCF**	72.0	15.0	IN48-90X3.5TFVCF	F37S48X	OR82.27X1.78X	3.39
3	90X5.0	**F37-348-90X5.0TFVCF**	72.0	14.0	IN48-90X5.0TFVCF	F37S48X	OR79X1.78X	3.35

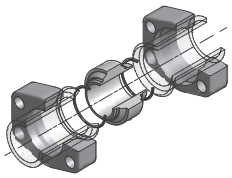
Other sizes on request. *Incl. adapter sleeve or jump size flange if necessary.

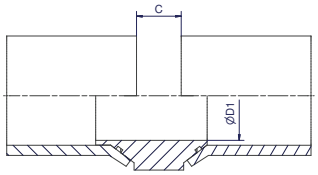
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-324-50X5.0TFVCF
Stainless steel	SS	F37-324-50X5.0TFVSS

TT – Flare flange connection

Tube to tube connection





Size		2 Flanges* incl. Insert + 2 x O-Ring Order code	D1	C	Insert incl. 2 x O-Ring Order code	O-Ring Order code	Weight (Steel) kg/1 kit
Inch	Tube						
1/2	16X2.0	**F37-308-16X2.0TTCF**	9.5	16	IN08-16X2.0TTCF	OR12X1.0X	0.28
1/2	18X2.0	**F37-308-18X2.0TTCF**	11.5	16	IN08-18X2.0TTCF	OR14X1.0X	0.29
1/2	20X2.0	**F37-308-20X2.0TTCF**	13.5	16	IN08-20X2.0TTCF	OR16X1.0X	0.29
1/2	20X2.5	**F37-308-20X2.5TTCF**	13.5	16	IN08-20X2.5TTCF	OR16X1.0X	0.29
1/2	25X2.5	**F37-308-25X2.5TTCF**	13.5	20	IN08-25X2.5TTCF	OR20X1.0X	0.30
1/2	25X3.0	**F37-308-25X3.0TTCF**	13.0	16	IN08-25X3.0TTCF	OR20X1.0X	0.29
3/4	20X2.0	**F37-312-20X2.0TTCF**	13.5	16	IN12-20X2.0TTCF	OR16X1.0X	0.38
3/4	20X2.5	**F37-312-20X2.5TTCF**	12.5	16	IN12-20X2.5TTCF	OR16X1.0X	0.38
3/4	25X2.5	**F37-312-25X2.5TTCF**	17.5	20	IN12-25X2.5TTCF	OR20X1.0X	0.39
3/4	25X3.0	**F37-312-25X3.0TTCF**	16.5	16	IN12-25X3.0TTCF	OR20X1.0X	0.39
3/4	30X3.0	**F37-312-30X3.0TTCF**	19.0	17	IN12-30X3.0TTCF	OR25X1.0X	0.40
3/4	30X4.0	**F37-312-30X4.0TTCF**	19.0	17	IN12-30X4.0TTCF	OR22X1.0X	0.40
1	25X2.5	**F37-316-25X2.5TTCF**	17.5	20	IN16-25X2.5TTCF	OR20X1.0X	0.49
1	25X3.0	**F37-316-25X3.0TTCF**	16.5	16	IN16-25X3.0TTCF	OR20X1.0X	0.49
1	30X3.0	**F37-316-30X3.0TTCF**	21.5	17	IN16-30X3.0TTCF	OR25X1.0X	0.48
1	30X4.0	**F37-316-30X4.0TTCF**	19.5	17	IN16-30X4.0TTCF	OR22X1.0X	0.49
1	38X2.5	**F37-316-38X2.5TTCF**	25.0	19	IN16-38X2.5TTCF	OR34X1.0X	0.54
1	38X3.0	**F37-316-38X3.0TTCF**	25.0	18	IN16-38X3.0TTCF	OR34X1.0X	0.52
1	38X4.0	**F37-316-38X4.0TTCF**	25.0	20	IN16-38X4.0TTCF	OR30X1.0X	0.50
1	38X5.0	**F37-316-38X5.0TTCF**	25.0	16	IN16-38X5.0TTCF	OR28X1.0X	0.48
1 1/4	30X3.0	**F37-320-30X3.0TTCF**	21.5	17	IN20-30X3.0TTCF	OR25X1.0X	0.70
1 1/4	30X4.0	**F37-320-30X4.0TTCF**	19.5	17	IN20-30X4.0TTCF	OR22X1.0X	0.73
1 1/4	38X3.0	**F37-320-38X3.0TTCF**	29.0	18	IN20-38X3.0TTCF	OR34X1.0X	0.68
1 1/4	38X4.0	**F37-320-38X4.0TTCF**	27.0	20	IN20-38X4.0TTCF	OR30X1.0X	0.69
1 1/4	38X5.0	**F37-320-38X5.0TTCF**	25.5	16	IN20-38X5.0TTCF	OR28X1.0X	0.67
1 1/4	42X3.0	**F37-320-42X3.0TTCF**	31.5	20	IN20-42X3.0TTCF	OR37.82X1.78X	0.68
1 1/4	42X4.0	**F37-320-42X4.0TTCF**	31.5	20	IN20-42X4.0TTCF	OR34X1.0X	0.67
1 1/2	38X3.0	**F37-324-38X3.0TTCF**	27.5	18	IN24-38X3.0TTCF	OR34X1.0X	0.93
1 1/2	38X4.0	**F37-324-38X4.0TTCF**	27.5	20	IN24-38X4.0TTCF	OR30.X1.0X	0.93
1 1/2	38X5.0	**F37-324-38X5.0TTCF**	25.0	16	IN24-38X5.0TTCF	OR41X1.78X	0.93
1 1/2	42X3.0	**F37-324-42X3.0TTCF**	33.5	20	IN24-42X3.0TTCF	OR37.82X1.78X	0.98
1 1/2	42X4.0	**F37-324-42X4.0TTCF**	31.5	20	IN24-42X4.0TTCF	OR34X1.0X	1.08
1 1/2	50X3.0	**F37-324-50X3.0TTCF**	36.0	22	IN24-50X3.0TTCF	OR44.17X1.78X	1.10
1 1/2	50X5.0	**F37-324-50X5.0TTCF**	36.0	20	IN24-50X5.0TTCF	OR41X1.78X	1.21
1 1/2	50X6.0	**F37-324-50X6.0TTCF**	35.0	20	IN24-50X6.0TTCF	OR41X1.78X	1.10
2	50X3.0	**F37-332-50X3.0TTCF**	41.5	22	IN32-50X3.0TTCF	OR44.17X1.78X	1.40
2	50X5.0	**F37-332-50X5.0TTCF**	37.5	20	IN32-50X5.0TTCF	OR41X1.78X	1.51
2	50X6.0	**F37-332-50X6.0TTCF**	35.0	20	IN32-50X6.0TTCF	OR41X1.78X	1.56
2	60X3.0	**F37-332-60X3.0TTCF**	46.0	24	IN32-60X3.0TTCF	OR53.7X1.78X	1.53
2	60X5.0	**F37-332-60X5.0TTCF**	46.0	22	IN32-60X5.0TTCF	OR50.52X1.78X	1.46
2	60X6.0	**F37-332-60X6.0TTCF**	45.5	22	IN32-60X6.0TTCF	OR47.37X1.78X	1.45
2 1/2	60X3.0	**F37-340-60X3.0TTCF**	50.0	24	IN40-60X3.0TTCF	OR53.7X1.78X	1.98
2 1/2	60X5.0	**F37-340-60X5.0TTCF**	46.0	22	IN40-60X5.0TTCF	OR50.52X1.78X	1.99
2 1/2	60X6.0	**F37-340-60X6.0TTCF**	45.0	22	IN40-60X6.0TTCF	OR47.37X1.78X	1.97
2 1/2	75X3.0	**F37-340-75X3.0TTCF**	60.0	20	IN40-75X3.0TTCF	OR69.57X1.78X	1.93
2 1/2	75X5.0	**F37-340-75X5.0TTCF**	60.0	20	IN40-75X5.0TTCF	OR63.22X1.78X	1.95
3	75X3.0	**F37-348-75X3.0TTCF**	66.0	20	IN48-75X3.0TTCF	OR69.57X1.78X	3.22
3	75X5.0	**F37-348-75X5.0TTCF**	62.0	20	IN48-75X5.0TTCF	OR63.22X1.78X	3.38
3	90X3.5	**F37-348-90X3.5TTCF**	72.0	30	IN48-90X3.5TTCF	OR82.27X1.78X	3.39
3	90X5.0	**F37-348-90X5.0TTCF**	72.0	28	IN48-90X5.0TTCF	OR79X1.78X	3.35

Other sizes on request. *Incl. adapter sleeve or jump size flange if necessary.

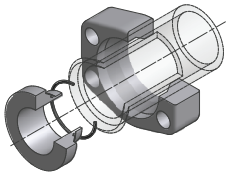
Please change suffixes according to material/surface required

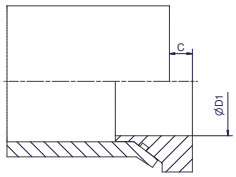
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-324-50X5.0TTCF
Stainless steel	SS	F37-324-50X5.0TTSS

Parflange® F37 – SAE 3000/ISO 6162-1

TF – Flare flange connection

Tube to flange connection, flat face





Size		Flange* incl. Insert + O-Ring Order code	D1	C	Insert incl. O-Ring Order code	O-Ring Order code	Weight (Steel) kg/1 kit
Inch	Tube						
1/2	16X2.0	**F37-308-16X2.0TFCF**	9.5	8.0	IN08-16X2.0TFCF	OR12X1.0X	0.24
1/2	18X2.0	**F37-308-18X2.0TFCF**	11.5	8.0	IN08-18X2.0TFCF	OR14X1.0X	0.24
1/2	20X2.0	**F37-308-20X2.0TFCF**	13.5	8.0	IN08-20X2.0TFCF	OR16X1.0X	0.25
1/2	20X2.5	**F37-308-20X2.5TFCF**	13.5	8.0	IN08-20X2.5TFCF	OR16X1.0X	0.25
1/2	25X2.5	**F37-308-25X2.5TFCF**	13.5	10.0	IN08-25X2.5TFCF	OR20X1.0X	0.25
1/2	25X3.0	**F37-308-25X3.0TFCF**	13.0	8.0	IN08-25X3.0TFCF	OR20X1.0X	0.24
3/4	20X2.0	**F37-312-20X2.0TFCF**	13.5	8.0	IN12-20X2.0TFCF	OR16X1.0X	0.31
3/4	20X2.5	**F37-312-20X2.5TFCF**	12.5	8.0	IN12-20X2.5TFCF	OR16X1.0X	0.31
3/4	25X2.5	**F37-312-25X2.5TFCF**	17.5	10.0	IN12-25X2.5TFCF	OR20X1.0X	0.31
3/4	25X3.0	**F37-312-25X3.0TFCF**	16.5	8.0	IN12-25X3.0TFCF	OR20X1.0X	0.32
3/4	30X3.0	**F37-312-30X3.0TFCF**	19.0	8.5	IN12-30X3.0TFCF	OR25X1.0X	0.32
3/4	30X4.0	**F37-312-30x4.0TFCF**	19.0	8.5	IN12-30x4.0TFCF	OR22X1.0X	0.32
1	25X2.5	**F37-316-25X2.5TFCF**	17.5	10.0	IN16-25X2.5TFCF	OR20X1.0X	0.38
1	25X3.0	**F37-316-25X3.0TFCF**	16.5	8.0	IN16-25X3.0TFCF	OR20X1.0X	0.39
1	30X3.0	**F37-316-30X3.0TFCF**	21.5	8.5	IN16-30X3.0TFCF	OR25X1.0X	0.41
1	30X4.0	**F37-316-30X4.0TFCF**	19.5	8.5	IN16-30X4.0TFCF	OR22X1.0X	0.39
1	38X2.5	**F37-316-38X2.5TFCF**	25.0	9.5	IN16-38X2.5TFCF	OR34X1.0X	0.41
1	38X3.0	**F37-316-38X3.0TFCF**	25.0	9.0	IN16-38X3.0TFCF	OR34X1.0X	0.40
1	38X4.0	**F37-316-38X4.0TFCF**	25.0	10.0	IN16-38X4.0TFCF	OR30X1.0X	0.40
1	38X5.0	**F37-316-38X5.0TFCF**	25.0	8.0	IN16-38X5.0TFCF	OR28X1.0X	0.39
1 1/4	30X3.0	**F37-320-30X3.0TFCF**	21.5	8.5	IN20-30X3.0TFCF	OR25X1.0X	0.57
1 1/4	30X4.0	**F37-320-30X4.0TFCF**	19.5	8.5	IN20-30X4.0TFCF	OR22X1.0X	0.59
1 1/4	38X3.0	**F37-320-38X3.0TFCF**	29.0	9.0	IN20-38X3.0TFCF	OR34X1.0X	0.56
1 1/4	38X4.0	**F37-320-38X4.0TFCF**	27.0	10.0	IN20-38X4.0TFCF	OR30X1.0X	0.57
1 1/4	38X5.0	**F37-320-38X5.0TFCF**	25.5	8.0	IN20-38X5.0TFCF	OR28X1.0X	0.56
1 1/4	42X3.0	**F37-320-42X3.0TFCF**	31.5	10.0	IN20-42X3.0TFCF	OR37.82X1.78X	0.57
1 1/4	42X4.0	**F37-320-42X4.0TFCF**	31.5	10.0	IN20-42X4.0TFCF	OR34X1.0X	0.56
1 1/2	38X3.0	**F37-324-38X3.0TFCF**	27.5	9.0	IN24-38X3.0TFCF	OR34X1.0X	0.87
1 1/2	38X4.0	**F37-324-38X4.0TFCF**	27.5	10.0	IN24-38X4.0TFCF	OR30X1.0X	0.87
1 1/2	38X5.0	**F37-324-38X5.0TFCF**	25.0	8.0	IN24-38X5.0TFCF	OR41X1.78X	0.87
1 1/2	42X3.0	**F37-324-42X3.0TFCF**	33.5	10.0	IN24-42X3.0TFCF	OR37.82X1.78X	0.87
1 1/2	42X4.0	**F37-324-42X4.0TFCF**	31.5	10.0	IN24-42X4.0TFCF	OR34X1.0X	0.87
1 1/2	50X3.0	**F37-324-50X3.0TFCF**	36.0	11.0	IN24-50X3.0TFCF	OR44.17X1.78X	0.87
1 1/2	50X5.0	**F37-324-50X5.0TFCF**	36.0	10.0	IN24-50X5.0TFCF	OR41X1.78X	0.87
1 1/2	50X6.0	**F37-324-50X6.0TFCF**	35.0	10.0	IN24-50X6.0TFCF	OR41X1.78X	0.87
2	50X3.0	**F37-332-50X3.0TFCF**	41.5	11.0	IN32-50X3.0TFCF	OR44.17X1.78X	1.20
2	50X5.0	**F37-332-50X5.0TFCF**	37.5	10.0	IN32-50X5.0TFCF	OR41X1.78X	1.22
2	50X6.0	**F37-332-50X6.0TFCF**	35.0	10.0	IN32-50X6.0TFCF	OR41X1.78X	1.25
2	60X3.0	**F37-332-60X3.0TFCF**	46.0	12.0	IN32-60X3.0TFCF	OR53.7X1.78X	1.25
2	60X5.0	**F37-332-60X5.0TFCF**	46.0	11.0	IN32-60X5.0TFCF	OR50.52X1.78X	1.22
2	60X6.0	**F37-332-60X6.0TFCF**	45.5	11.0	IN32-60X6.0TFCF	OR47.37X1.78X	1.21
2 1/2	60X3.0	**F37-340-60X3.0TFCF**	50.0	12.0	IN40-60X3.0TFCF	OR53.7X1.78X	1.98
2 1/2	60X5.0	**F37-340-60X5.0TFCF**	46.0	11.0	IN40-60X5.0TFCF	OR50.52X1.78X	1.99
2 1/2	60X6.0	**F37-340-60X6.0TFCF**	45.5	11.0	IN40-60X6.0TFCF	OR47.37X1.78X	1.97
2 1/2	75X3.0	**F37-340-75X3.0TFCF**	60.0	10.0	IN40-75X3.0TFCF	OR69.57X1.78X	1.93
2 1/2	75X5.0	**F37-340-75X5.0TFCF**	60.0	10.0	IN40-75X5.0TFCF	OR63.22X1.78X	1.95
3	75X3.0	**F37-348-75X3.0TFCF**	66.0	10.0	IN48-75X3.0TFCF	OR69.57X1.78X	3.22
3	75X5.0	**F37-348-75X5.0TFCF**	62.0	10.0	IN48-75X5.0TFCF	OR63.22X1.78X	3.38
3	90X3.5	**F37-348-90X3.5TFCF**	72.0	15.0	IN48-90X3.5TFCF	OR82.27X1.78X	3.39
3	90X5.0	**F37-348-90X5.0TFCF**	72.0	14.0	IN48-90X5.0TFCF	OR79X1.78X	3.35

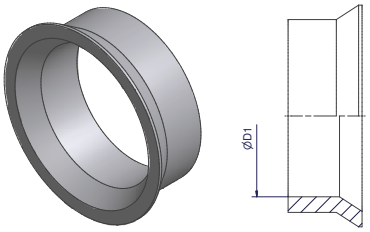
Other sizes on request. *Incl. adapter sleeve or jump size flange if necessary.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-324-50X5.0TFCF
Stainless steel	SS	F37-324-50X5.0TFSS

SL – Sleeve

SAE 3000/ISO 6162-1



Size Inch	Tube OD	Order code	D1	Weight body (Steel) kg/1 piece
1/2	16	**SL08-25-16-CFX***	16.30	0.04
1/2	18	**SL08-25-18-CFX**	18.30	0.04
1/2	20	**SL08-25-20-CFX***	20.30	0.04
3/4	20	**SL12-30-20-CFX**	20.30	0.04
3/4	25	**SL12-30-25-CFX**	25.20	0.04
1	25	**SL16-38-25-CFX***	25.20	0.04
1	30	**SL16-38-30-CFX***	30.20	0.04
1 1/4	30	**SL20-42-30-CFX**	30.20	0.04
1 1/4	38	**SL20-42-38-CFX***	38.25	0.04
1 1/2	38	**SL24-50-38-CFX**	38.25	0.14
1 1/2	42	**SL24-50-42-CFX***	42.30	0.10
2	50	**SL32-60-50-CFX**	50.30	0.16
2 1/2	60	**SL40-75-60-CFX**	60.45	0.36
3	75	**SL48-90-75-CFX**	75.45	0.52

*By use of jump size flanges, no adapter sleeves necessary. For jump size flanges see page 65.

Please change suffixes according to material/surface required

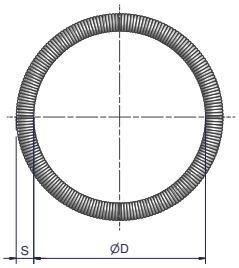
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	SL24-50-42-CFX
Stainless steel	SS	SL24-50-42-SSX

R – Retaining ring

SAE 3000/ISO 6162-1

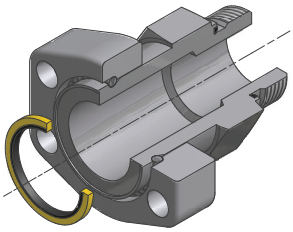
Size Inch	Tube	Order code	D	S
1/2	26X6.0	**R08X**	22.3	4.0
3/4	36X8.0	**R12X**	32.3	4.0
1	39X7.5	**R16X**	34.3	5.0
1 1/4	46X8.0	**R20X**	41.3	5.0
1 1/2	56X8.5	**R24X**	51.3	5.0
2	66X8.5	**R32X**	61.3	5.0
2 1/2	80X10.0	**R40X**	75.3	5.0
3	97X12.0	**R48X**	91.3	6.0

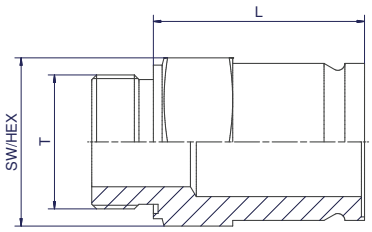
Material: Stainless steel



MTF-R – Male thread adapter, BSPP

SAE 3000/ISO 6162-1





Size Inch	Tube	Complete part Order code	Body incl. ED Seal Order code	L	T (BSPP)	SW/ HEX	Weight body (Steel) kg/1 piece
1/2	26X6.0	**R-308MTFRCF**	MTF08ROMDCF	61.0	G 1/2A	27	0.21
3/4	36X8.0	**R-312MTFRCF**	MTF12ROMDCF	61.0	G 3/4A	36	0.32
3/4	36X8.0	**R-312MTFR1/2CF**	MTF12R1/2OMDCF	61.0	G 1/2A	36	0.32
1	39X7.5	**R-316MTFRCF**	MTF16ROMDCF	69.0	G 1A	41	0.50
1	39X7.5	**R-316MTFR3/4CF**	MTF16R3/4OMDCF	69.0	G 3/4A	41	0.50
1 1/4	46X8.0	**R-320MTFRCF**	MTF20ROMDCF	80.0	G 1 1/4A	50	0.75
1 1/4	46X8.0	**R-320MTFR1CF**	MTF20R1OMDCF	80.0	G 1A	50	0.73
1 1/2	56X8.5	**R-324MTFRCF**	MTF24ROMDCF	93.0	G 1 1/2A	60	1.20
1 1/2	56X8.5	**R-324MTFR11/4CF**	MTF24R11/4OMDCF	93.0	G 1 1/4A	60	1.17
2	66X8.5	**R-332MTFRCF**	MTF32ROMDCF	104.0	G 2A	75	1.87
2	66X8.5	**R-332MTFR11/2CF**	MTF32R11/2OMDCF	103.5	G 1 1/2A	75	1.80
2 1/2	80X10.0	**R-340MTFRCF**	MTF40ROMDCF	134.0	G 2 1/2A	85	3.50
2 1/2	80X10.0	**R-340MTFR2CF**	MTF40R2OMDCF	136.0	G 2A	85	3.50
3	97X12.0	**R-348MTFRCF**	MTF48ROMDCF	145.0	G 3A	95	5.00

Other sizes on request.

Please change suffixes according to material/surface required

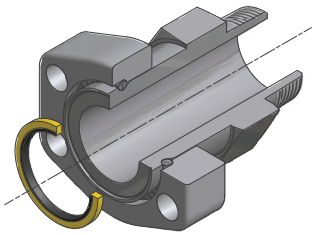
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-320MTFRCF
Stainless steel	SS	R-320MTFRSS

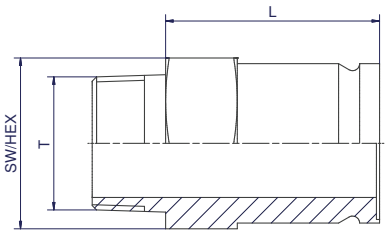
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MTF-N – Male thread adapter, NPT

SAE 3000/ISO 6162-1





Size Inch	Tube	Complete part Order code	Body Order code	L	T (NPT)	SW/ HEX	Weight body (Steel) kg/1 piece
1/2	26X6.0	**R-308MTFNCF**	MTF08NCFX	92.0	1/2-14	27	0.26
3/4	36X8.0	**R-312MTFNCF**	MTF12NCFX	72.6	3/4-14	36	0.48
1	39X7.5	**R-316MTFNCF**	MTF16NCFX	67.7	1-11.5	41	0.55
1 1/4	46X8.0	**R-320MTFNCF**	MTF20NCFX	75.0	1 1/4-11.5	50	0.70
1 1/2	56X8.5	**R-324MTFNCF**	MTF24NCFX	93.2	1 1/2-11.5	60	1.80
2	66X8.5	**R-332MTFNCF**	MTF32NCFX	100.4	2-11.5	75	2.40
2 1/2	80X10.0	**R-340MTFNCF**	MTF40NCFX	130.0	2 1/2-8	85	3.40
3	97x12.0	**R-348MTFNCF**	MTF48NCFX	141.2	3-8	95	4.90

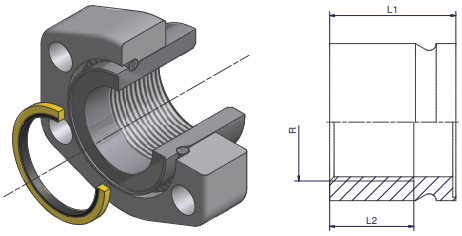
Other sizes on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-320MTFNCF
Stainless steel	SS	R-320MTFNSS

FTF-R – Female thread adapter, BSPP

SAE 3000/ISO 6162-1



Size Inch	Tube	Complete part Order code	Body Order code	L1	L2	R (BSPP)	Weight body (Steel) kg/1 piece
1/2	26X6.0	**R-308FTFRCF**	FTF08RCFX	35	25	G 1/4	0.11
3/4	36X8.0	**R-312FTFRCF**	FTF12RCFX	40	25	G 1/2	0.22
1	39X7.5	**R-316FTFRCF**	FTF16RCFX	40	25	G 3/4	0.20
1 1/4	46X8.0	**R-320FTFRCF**	FTF20RCFX	42	30	G 1	0.30
1 1/2	56X8.5	**R-324FTFRCF**	FTF24RCFX	45	30	G 1 1/4	0.45
2	66X8.5	**R-332FTFRCF**	FTF32RCFX	55	40	G 1 1/2	0.75
2 1/2	80X10.0	**R-340FTFRCF**	FTF40RCFX	80	40	G 2	1.52
3	97X12.0	**R-348FTFRCF**	FTF48RCFX	85	50	G 2 1/2	2.11

Other sizes on request.

Please change suffixes according to material/surface required

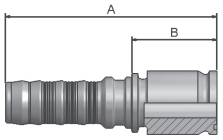
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-320FTFRCF
Stainless steel	SS	R-320FTFRSS

Retaining ring hose couplings

SAE 3000/ISO 6162-1

X5 Flange - Straight

Full flange system for ISO 6162-1 or ISO 6162-2

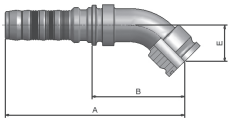




Hose I.D.				Flange	A	B	
DN	Inch	Size	mm	Inch	mm	mm	Order code
31	1 1/4	-20	31.8	1 1/4	152.3	61.3	**KX5V6-20-20**
38	1 1/2	-24	38.1	1 1/2	159.3	63.3	**KX5V6-24-24**
51	2	-32	50.8	2	188.0	78.0	**KX5V6-32-32**
63	2 1/2	-40	63.5	2 1/2	233.0	83.0	**KX5V6-40-40**
63	2 1/2	-40	63.5	3	233.0	98.0	**KX5V6-48-40**

X7 Flange - 45° Elbow

Full flange system for ISO 6162-1 or ISO 6162-2

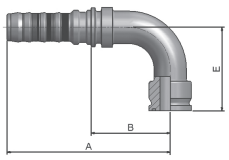




Hose I.D.				Flange	A	B	E	
DN	Inch	Size	mm	Inch	mm	mm	mm	Order code
31	1 1/4	-20	31.8	1 1/4	190.0	99.0	39.0	**KX7V6-20-20**
38	1 1/2	-24	38.1	1 1/2	221.0	125.0	44.0	**KX7V6-24-24**
51	2	-32	50.8	2	275.0	164.5	57.0	**KX7V6-32-32**

X9 Flange - 90° Elbow

Full flange system for ISO 6162-1 or ISO 6162-2





Hose I.D.				Flange	A	B	E	
DN	Inch	Size	mm	Inch	mm	mm	mm	Order code
31	1 1/4	-20	31.8	1 1/4	176.8	85.5	90.0	**KX9V6-20-20**
38	1 1/2	-24	38.1	1 1/2	209.3	113.0	104.0	**KX9V6-24-24**
51	2	-32	50.8	2	268.0	157.0	138.0	**KX9V6-32-32**

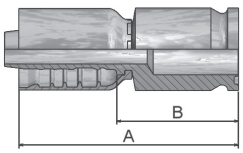
Details about the associated hose types can be found in the catalog of HPDE C4400/UK.

Retaining ring hose couplings

SAE 3000/ISO 6162-1

X5 Flange - Straight

Full flange system for ISO 6162-1 or ISO 6162-2

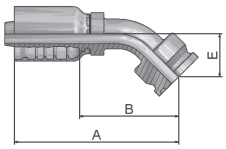


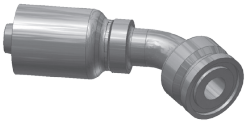


Hose I.D.				Flange	A	B	
DN	Inch	Size	mm	Inch	mm	mm	Order code
19	3/4	-12	19.1	3/4	103.0	57.0	**1X577-12-12**
19	3/4	-12	19.1	1	103.0	57.0	**1X577-16-12**
25	1	-16	25.4	1	113.0	59.0	**1X577-16-16**
25	1	-16	25.4	1 1/4	113.0	59.0	**1X577-20-16**
25	1	-16	25.4	1 1/2	113.0	59.0	**1X577-24-16**
31	1 1/4	-20	31.8	1 1/4	124.0	57.0	**1X577-20-20**
38	1 1/2	-24	38.1	1 1/2	129.0	62.0	**1X577-24-24**
51	2	-32	50.8	2	154.0	77.0	**1X577-32-32**

X7 Flange - 45° Elbow

Full flange system for ISO 6162-1 or ISO 6162-2





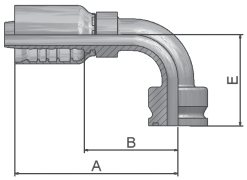
Hose I.D.				Flange	A	B	E	
DN	Inch	Size	mm	Inch	mm	mm	mm	Order code
19	3/4	-12	19.1	3/4	119.0	73.0	29.0	**1X777-12-12**
19	3/4	-12	19.1	1	118.0	72.0	29.0	**1X777-16-12**
25	1	-16	25.4	1	141.0	87.0	32.0	**1X777-16-16**
25	1	-16	25.4	1 1/4	147.0	93.0	38.0	**1X777-20-16**
31	1 1/4	-20	31.8	1	146.0	82.0	38.0	**1X777-16-20**
31	1 1/4	-20	31.8	1 1/4	159.0	96.0	38.0	**1X777-20-20**
31	1 1/4	-20	31.8	1 1/2	165.0	102.0	44.0	**1X777-24-20**
38	1 1/2	-24	38.1	1 1/2	183.0	116.0	45.0	**1X777-24-24**

Retaining ring hose couplings

SAE 3000/ISO 6162-1

X9 Flange - 90° Elbow

Full flange system for ISO 6162-1 or ISO 6162-2





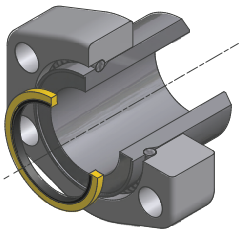
Hose I.D.				Flange	A	B	E	
DN	Inch	Size	mm	Inch	mm	mm	mm	Order code
12	1/2	-8	12.7	1/2	81.0	45.0	43.0	**1X977-8-8**
19	3/4	-12	19.1	3/4	108.0	62.0	61.0	**1X977-12-12**
19	3/4	-12	19.1	1	108.0	62.0	61.0	**1X977-16-12**
25	1	-16	25.4	3/4	110.0	56.0	70.0	**1X977-12-16**
25	1	-16	25.4	1	131.0	77.0	70.0	**1X977-16-16**
25	1	-16	25.4	1 1/4	131.0	77.0	70.0	**1X977-20-16**
31	1 1/4	-20	31.8	1	130.0	67.0	90.0	**1X977-16-20**
31	1 1/4	-20	31.8	1 1/4	148.0	84.0	90.0	**1X977-20-20**
31	1 1/4	-20	31.8	1 1/2	148.0	84.0	90.0	**1X977-24-20**
38	1 1/2	-24	38.1	1 1/2	170.0	103.0	104.0	**1X977-24-24**
51	2	-32	50.8	2	221.0	144.0	138.0	**1X977-32-32**

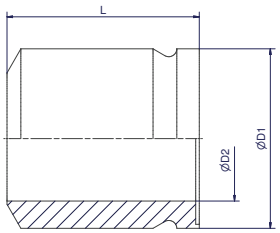
Details about the associated hose types can be found in the catalog of HPDE C4400/UK.

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WA – Weld adapter connection

SAE 3000/ISO 6162-1





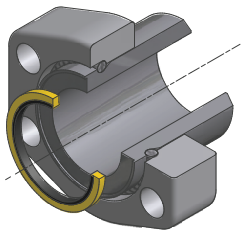
Size Inch	Tube	Complete Part Order code	Retaining Ring	Bonded Seal	Flange Order code	Weld Adapter Body Order code	D1	D2	L	Weight (Steel) kg/1 kit
1/2	12X1.5	**R-308WA-12X1.5S**	R08X	BS08SNX	R-308-CFX	WA08-12X1.5SX	26	9	40	0.29
1/2	16X2.0	**R-308WA-16X2.0S**	R08X	BS08SNX	R-308-CFX	WA08-16X2.0SX	26	12	40	0.30
1/2	18X2.0	**R-308WA-18X2.0S**	R08X	BS08SNX	R-308-CFX	WA08-18X2.0SX	26	14	40	0.30
1/2	20X2.5	**R-308WA-20X2.5S**	R08X	BS08SNX	R-308-CFX	WA08-20X2.5SX	26	15	40	0.30
1/2	21.3X2.1	**R-308WA-21.3X2.1S**	R08X	BS08SNX	R-308-CFX	WA08-21.3X2.1SX	26	17	40	0.30
1/2	21.3X2.8	**R-308WA-21.3X2.8S**	R08X	BS08SNX	R-308-CFX	WA08-21.3X2.8SX	26	16	40	0.30
1/2	21.3X3.7	**R-308WA-21.3X3.7S**	R08X	BS08SNX	R-308-CFX	WA08-21.3X3.7SX	26	14	45	0.31
1/2	21.3X4.8	**R-308WA-21.3X4.8S**	R08X	BS08SNX	R-308-CFX	WA08-21.3X4.8SX	26	12	45	0.32
1/2	21.3X7.5	**R-308WA-21.3X7.5S**	R08X	BS08SNX	R-308-CFX	WA08-21.3X7.5SX	26	6	45	0.32
1/2	25X2.5	**R-308WA-25X2.5S**	R08X	BS08SNX	R-308-CFX	WA08-25X2.5SX	26	14	40	0.29
1/2	26X6.0	**R-308WA-26X6.0S**	R08X	BS08SNX	R-308-CFX	WA08-26X6.0SX	26	14	40	0.31
3/4	20X2.5	**R-312WA-20X2.5S**	R12X	BS12SNX	R-312-CFX	WA12-20X2.5SX	36	15	45	0.41
3/4	25X3.0	**R-312WA-25X3.0S**	R12X	BS12SNX	R-312-CFX	WA12-25X3.0SX	36	19	45	0.41
3/4	26.7X2.1	**R-312WA-26.7X2.1S**	R12X	BS12SNX	R-312-CFX	WA12-26.7X2.1SX	36	20	45	0.40
3/4	26.7X2.8	**R-312WA-26.7X2.8S**	R12X	BS12SNX	R-312-CFX	WA12-26.7X2.8SX	36	20	45	0.41
3/4	26.7X3.9	**R-312WA-26.7X3.9S**	R12X	BS12SNX	R-312-CFX	WA12-26.7X3.9SX	36	19	45	0.41
3/4	26.7X5.6	**R-312WA-26.7X5.6S**	R12X	BS12SNX	R-312-CFX	WA12-26.7X5.6SX	36	16	50	0.44
3/4	26.7X7.8	**R-312WA-26.7X7.8S**	R12X	BS12SNX	R-312-CFX	WA12-26.7X7.8SX	36	11	50	0.45
3/4	30X3.0	**R-312WA-30X3.0S**	R12X	BS12SNX	R-312-CFX	WA12-30X3.0SX	36	20	50	0.41
3/4	30X4.0	**R-312WA-30X4.0S**	R12X	BS12SNX	R-312-CFX	WA12-30X4.0SX	36	20	50	0.42
3/4	30X6.0	**R-312WA-30X6.0S**	R12X	BS12SNX	R-312-CFX	WA12-30X6.0SX	36	18	50	0.44
3/4	30X8.0	**R-312WA-30X8.0S**	R12X	BS12SNX	R-312-CFX	WA12-30X8.0SX	36	14	50	0.46
1	25X3.0	**R-316WA-25X3.0S**	R16X	BS16SNX	R-316-CFX	WA16-25X3.0SX	39	19	60	0.61
1	30X4.0	**R-316WA-30X4.0S**	R16X	BS16SNX	R-316-CFX	WA16-30X4.0SX	39	20	60	0.60
1	33.4X2.8	**R-316WA-33.4X2.8S**	R16X	BS16SNX	R-316-CFX	WA16-33.4X2.8SX	39	24	60	0.56
1	33.4X3.4	**R-316WA-33.4X3.4S**	R16X	BS16SNX	R-316-CFX	WA16-33.4X3.4SX	39	24	60	0.57
1	33.4X4.6	**R-316WA-33.4X4.6S**	R16X	BS16SNX	R-316-CFX	WA16-33.4X4.6SX	39	24	60	0.59
1	33.4X6.5	**R-316WA-33.4X6.5S**	R16X	BS16SNX	R-316-CFX	WA16-33.4X6.5SX	39	20	60	0.65
1	33.4X9.1	**R-316WA-33.4X9.1S**	R16X	BS16SNX	R-316-CFX	WA16-33.4X9.1SX	39	15	60	0.64
1	38X4.0	**R-316WA-38X4.0S**	R16X	BS16SNX	R-316-CFX	WA16-38X4.0SX	39	24	55	0.54
1	38X5.0	**R-316WA-38X5.0S**	R16X	BS16SNX	R-316-CFX	WA16-38X5.0SX	39	24	55	0.56
1	38X7.0	**R-316WA-38X7.0S**	R16X	BS16SNX	R-316-CFX	WA16-38X7.0SX	39	24	60	0.62
1	39X7.5	**R-316WA-39X7.5S**	R16X	BS16SNX	R-316-CFX	WA16-39X7.5SX	39	24	50	0.57
1 1/4	30X4.0	**R-320WA-30X4.0S**	R20X	BS20SNX	R-320-CFX	WA20-30X4.0SX	46	22	70	1.04
1 1/4	38X4.0	**R-320WA-38X4.0S**	R20X	BS20SNX	R-320-CFX	WA20-38X4.0SX	46	30	65	0.89
1 1/4	38X5.0	**R-320WA-38X5.0S**	R20X	BS20SNX	R-320-CFX	WA20-38X5.0SX	46	28	65	0.94
1 1/4	42X3.0	**R-320WA-42X3.0S**	R20X	BS20SNX	R-320-CFX	WA20-42X3.0SX	46	30	65	0.84
1 1/4	42X4.0	**R-320WA-42X4.0S**	R20X	BS20SNX	R-320-CFX	WA20-42X4.0SX	46	30	65	0.87
1 1/4	42X6.0	**R-320WA-42X6.0S**	R20X	BS20SNX	R-320-CFX	WA20-42X6.0SX	46	30	65	0.93
1 1/4	42.2X2.7	**R-320WA-42.2X2.7S**	R20X	BS20SNX	R-320-CFX	WA20-42.2X2.7SX	46	30	65	0.83
1 1/4	42.2X3.6	**R-320WA-42.2X3.6S**	R20X	BS20SNX	R-320-CFX	WA20-42.2X3.6SX	46	30	65	0.86
1 1/4	42.2X4.9	**R-320WA-42.2X4.9S**	R20X	BS20SNX	R-320-CFX	WA20-42.2X4.9SX	46	30	65	0.90
1 1/4	42.2X6.4	**R-320WA-42.2X6.4S**	R20X	BS20SNX	R-320-CFX	WA20-42.2X6.4SX	46	29	65	0.94
1 1/4	42.2X9.7	**R-320WA-42.2X9.7S**	R20X	BS20SNX	R-320-CFX	WA20-42.2X9.7SX	46	23	65	1.06
1 1/4	46X7.0	**R-320WA-46X7.0S**	R20X	BS20SNX	R-320-CFX	WA20-46X7.0SX	46	30	65	0.95
1 1/4	46X8.0	**R-320WA-46X8.0S**	R20X	BS20SNX	R-320-CFX	WA20-46X8.0SX	46	30	55	0.88
1 1/2	38X5.0	**R-324WA-38X5.0S**	R24X	BS24SNX	R-324-CFX	WA24-38X5.0SX	56	28	75	1.45
1 1/2	48.3X2.8	**R-324WA-48.3X2.8S**	R24X	BS24SNX	R-324-CFX	WA24-48.3X2.8SX	56	39	70	1.11
1 1/2	48.3X3.7	**R-324WA-48.3X3.7S**	R24X	BS24SNX	R-324-CFX	WA24-48.3X3.7SX	56	39	70	1.15
1 1/2	48.3X5.1	**R-324WA-48.3X5.1S**	R24X	BS24SNX	R-324-CFX	WA24-48.3X5.1SX	56	38	70	1.21

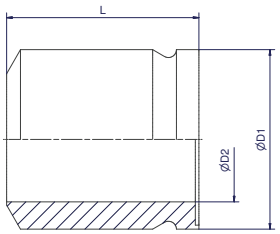
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Parflange® F37 – SAE 3000/ISO 6162-1

WA – Weld adapter connection continued

SAE 3000/ISO 6162-1





Size Inch	Tube	Complete Part Order code	Retaining Ring	Bonded Seal	Flange Order code	Weld Adapter Body Order code	D1	D2	L	Weight (Steel) kg/1 kit
1 1/2	48.3X7.1	**R-324WA-48.3X7.1S**	R24X	BS24SNX	R-324-CFX	WA24-48.3X7.1SX	56	34	70	1.33
1 1/2	48.3X10.2	**R-324WA-48.3X10.2S**	R24X	BS24SNX	R-324-CFX	WA24-48.3X10.2SX	56	28	70	1.29
1 1/2	50X3.0	**R-324WA-50X3.0S**	R24X	BS24SNX	R-324-CFX	WA24-50X3.0SX	56	39	70	1.10
1 1/2	50X5.0	**R-324WA-50X5.0S**	R24X	BS24SNX	R-324-CFX	WA24-50X5.0SX	56	40	70	1.17
1 1/2	50X6.0	**R-324WA-50X6.0S**	R24X	BS24SNX	R-324-CFX	WA24-50X6.0SX	56	38	70	1.23
1 1/2	50x9.0	**R-324WA-50X9.0S**	R24X	BS24SNX	R-324-CFX	WA24-50X9.0SX	56	32	70	1.39
1 1/2	56X8.5	**R-324WA-56X8.5S**	R24X	BS24SNX	R-324-CFX	WA24-56X8.5SX	56	39	60	1.15
2	48.3X5.6	**R-332WA-48.3X5.6S**	R32X	BS32SNX	R-332-CFX	WA32-48.3X5.6SX	66	37	90	2.30
2	50X9.0	**R-332WA-50X9.0S**	R32X	BS32SNX	R-332-CFX	WA32-50X9.0SX	66	32	90	2.51
2	60X3.0	**R-332WA-60X3.0S**	R32X	BS32SNX	R-332-CFX	WA32-60X3.0SX	66	49	90	1.79
2	60X5.0	**R-332WA-60X5.0S**	R32X	BS32SNX	R-332-CFX	WA32-60X5.0SX	66	50	90	1.89
2	60X6.0	**R-332WA-60X6.0S**	R32X	BS32SNX	R-332-CFX	WA32-60X6.0SX	66	48	90	2.00
2	60X8.0	**R-332WA-60X8.0S**	R32X	BS32SNX	R-332-CFX	WA32-60X8.0SX	66	44	90	2.18
2	60X10.0	**R-332WA-60X10.0S**	R32X	BS32SNX	R-332-CFX	WA32-60X10.0SX	66	40	90	2.36
2	60.3X2.8	**R-332WA-60.3X2.8S**	R32X	BS32SNX	R-332-CFX	WA32-60.3X2.8SX	66	49	90	1.77
2	60.3X3.9	**R-332WA-60.3X3.9S**	R32X	BS32SNX	R-332-CFX	WA32-60.3X3.9SX	66	49	90	1.85
2	60.3X5.5	**R-332WA-60.3X5.5S**	R32X	BS32SNX	R-332-CFX	WA32-60.3X5.5SX	66	49	90	1.94
2	60.3X8.7	**R-332WA-60.3X8.7S**	R32X	BS32SNX	R-332-CFX	WA32-60.3X8.7SX	66	43	90	2.24
2	60.3X11.1	**R-332WA-60.3X11.1S**	R32X	BS32SNX	R-332-CFX	WA32-60.3X11.1SX	66	38	90	2.44
2	66X8.5	**R-332WA-66X8.5S**	R32X	BS32SNX	R-332-CFX	WA32-66X8.5SX	66	49	75	1.85
2 1/2	65X8.5	**R-340WA-65X8.5S**	R40X	BS40SNX	R-340-CFX	WA40-65X8.5SX	80	49	105	3.80
2 1/2	73X7.0	**R-340WA-73X7.0S**	R40X	BS40SNX	R-340-CFX	WA40-73X7.0SX	80	59	105	3.29
2 1/2	75X3.0	**R-340WA-75X3.0S**	R40X	BS40SNX	R-340-CFX	WA40-75X3.0SX	80	60	105	2.90
2 1/2	75X5.0	**R-340WA-75X5.0S**	R40X	BS40SNX	R-340-CFX	WA40-75X5.0SX	80	60	105	3.07
2 1/2	76.1X6.3	**R-340WA-76.1X6.3S**	R40X	BS40SNX	R-340-CFX	WA40-76.1X6.3SX	80	60	105	3.15
2 1/2	76.1X12.5	**R-340WA-76.1X12.5S**	R40X	BS40SNX	R-340-CFX	WA40-76.1X12.5SX	80	51	105	3.87
2 1/2	80X10.0	**R-340WA-80X10.0S**	R40X	BS40SNX	R-340-CFX	WA40-80X10.0SX	80	60	90	3.10
3	76.1X12.5	**R-348WA-76.1X12.5S**	R48X	BS48SNX	R-348-CFX	WA48-76.1X12.5SX	97	51	120	5.68
3	80X10.0	**R-348WA-80X10.0S**	R48X	BS48SNX	R-348-CFX	WA48-80X10.0SX	97	60	120	5.57
3	88.9X3.1	**R-348WA-88.9X3.1S**	R48X	BS48SNX	R-348-CFX	WA48-88.9X3.1SX	97	73	120	4.68
3	88.9X5.5	**R-348WA-88.9X5.5S**	R48X	BS48SNX	R-348-CFX	WA48-88.9X5.5SX	97	73	120	4.97
3	88.9X7.7	**R-348WA-88.9X7.7S**	R48X	BS48SNX	R-348-CFX	WA48-88.9X7.7SX	97	74	120	5.17
3	88.9X8.8	**R-348WA-88.9X8.8S**	R48X	BS48SNX	R-348-CFX	WA48-88.9X8.8SX	97	71	120	5.40
3	88.9X11.1	**R-348WA-88.9X11.1S**	R48X	BS48SNX	R-348-CFX	WA48-88.9X11.1SX	97	67	120	5.84
3	88.9X12.5	**R-348WA-88.9X12.5S**	R48X	BS48SNX	R-348-CFX	WA48-88.9X12.5SX	97	64	120	6.10
3	88.9X15.2	**R-348WA-88.9X15.2S**	R48X	BS48SNX	R-348-CFX	WA48-88.9X15.2SX	97	59	120	6.50
3	90X3.5	**R-348WA-90X3.5S**	R48X	BS48SNX	R-348-CFX	WA48-90X3.5SX	97	73	120	4.69
3	90X5.0	**R-348WA-90X5.0S**	R48X	BS48SNX	R-348-CFX	WA48-90X5.0SX	97	80	120	5.00
3	90X9.0	**R-348WA-90X9.0S**	R48X	BS48SNX	R-348-CFX	WA48-90X9.0SX	97	72	120	5.35
3	97X12.0	**R-348WA-97X12.0S**	R48X	BS48SNX	R-348-CFX	WA48-97X12.0SX	97	73	110	5.15

Other sizes on request.

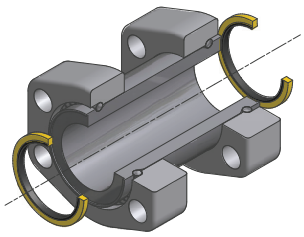
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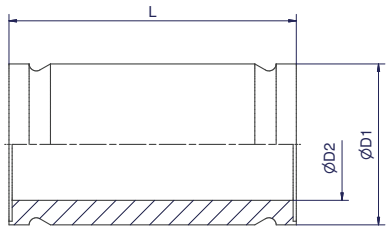
Order code suffixes		
Material	Suffix surface and material	Example
Steel	S	R-320WA-42X3.0S
Stainless steel	SS	R-320WA-42X3.SS

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

BF – Bulkhead flange

SAE 3000/ISO 6162-1





Size Inch	Complete Part Order code	Bulkhead Body Order code	D1	D2	L	Weight body (Steel) kg/1 piece
1/2	**R-308BFS**	BF08SX	26	14	170	0.49
3/4	**R-312BFS**	BF12SX	36	20	170	0.92
1	**R-316BFS**	BF16SX	39	24	170	0.96
1 1/4	**R-320BFS**	BF20SX	46	30	180	1.30
1 1/2	**R-324BFS**	BF24SX	56	39	180	1.75
2	**R-332BFS**	BF32SX	66	49	210	2.45
2 1/2	**R-340BFS**	BF40SX	80	60	220	3.70
3	**R-348BFS**	BF48SX	97	73	240	7.85

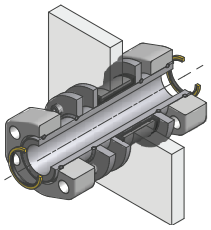
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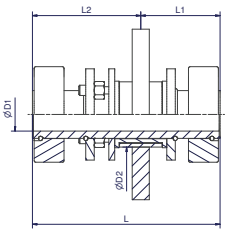
Order code suffixes		
Material	Suffix surface and material	Example
Steel	S	R-320BFS
Stainless steel	SS	R-320BFSS

Parflange® F37 – SAE 3000/ISO 6162-1

VB – Vibra bulkhead

SAE 3000/ISO 6162-1





Size Inch	Complete Part Order code	Tube	D1	D2	L	L1	L2	Weight (Steel) kg/1 kit
3/4	**R-312VBCF**	36X8.0	20	55.5	220	95	125	2.90
1	**R-316VBCF**	39X7.5	24	59.5	220	95	125	3.15
1 1/4	**R-320VBCF**	46X8.0	30	66.5	220	95	125	4.10
1 1/2	**R-324VBCF**	56X8.5	39	76.5	220	95	125	4.90
2	**R-332VBCF**	66X8.5	49	86.5	250	110	140	6.19
2 1/2	**R-340VBCF**	80X10.0	60	100.5	260	115	145	9.22
3	**R-348VBCF**	97X12.0	73	117.5	280	125	155	15.32

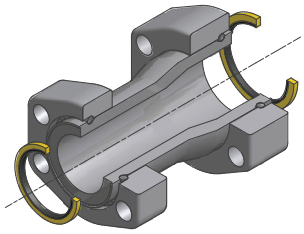
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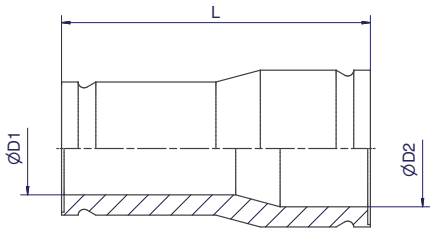
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-320VBCF
Stainless steel	SS	R-320VBSS

RF – Reducer flange

SAE 3000/ISO 6162-1





Size Inch	Complete Part Order code	Reducer Body Order code	D1	D2	L	Weight body (Steel) kg/1 piece
3/4 - 1/2	**R-312-308RFCF**	**RF12-08CFX**	14	20	65	0.3
1 - 1/2	**R-316-308RFCF**	**RF16-08CFX**	14	24	100	0.4
1 - 3/4	**R-316-312RFCF**	**RF16-12CFX**	20	24	100	0.6
1 1/4 - 1	**R-320-316RFCF**	**RF20-16CFX**	24	30	110	0.7
1 1/2 - 1	**R-324-316RFCF**	**RF24-16CFX**	24	39	115	0.9
1 1/2 - 1 1/4	**R-324-320RFCF**	**RF24-20CFX**	30	39	130	1.1
2 - 1 1/4	**R-332-320RFCF**	**RF32-20CFX**	30	49	130	1.3
2 - 1 1/2	**R-332-324RFCF**	**RF32-24CFX**	39	49	130	1.4
2 1/2 - 1 1/2	**R-340-324RFCF**	**RF40-24CFX**	39	60	150	2.1
2 1/2 - 2	**R-340-332RFCF**	**RF40-32CFX**	49	60	150	2.2
3 - 2	**R-348-332RFCF**	**RF48-32CFX**	49	73	180	3.4
3 - 2 1/2	**R-348-340RFCF**	**RF48-40CFX**	60	73	180	3.7

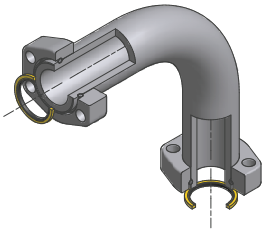
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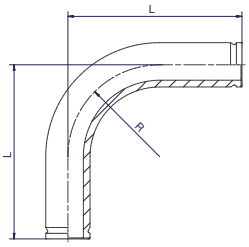
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-320-316RFCF
Stainless steel	SS	R-320-316RFSS

FB90 – 90° Flange bend

SAE 3000/ISO 6162-1





Size Inch	Tube	Complete Part Order code	90° Flange Bend Order code	L	R	Weight body (Steel) kg/1 piece
1	39X7.5	**R-316FB90S**	**FB90-16SX**	160	98	1.59
1 1/4	46X8.0	**R-320FB90S**	**FB90-20SX**	180	96	2.35
1 1/2	56X8.5	**R-324FB90S**	**FB90-24SX**	220	116	3.84
2	66X8.5	**R-332FB90S**	**FB90-32SX**	275	165	5.72
2 1/2	80X10.0	**R-340FB90S***	**FB90-40SX***	370	200	11.20
3	97X12.0	**R-348FB90S***	**FB90-48SX***	450	243	19.90

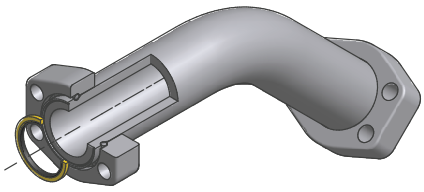
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*only available as steel version

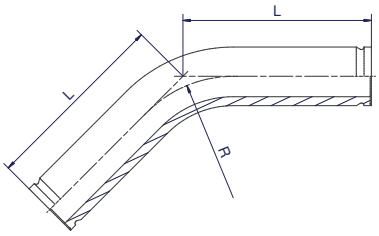
Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Comments
Steel, zinc plated, Cr(VI)-free	CF	R-320FB90CF	
Steel	S	R-320FB90S	
Stainless steel	SS	R-320FB90SS	on request

FB45 – 45° Flange bend

SAE 3000/ISO 6162-1





Size Inch	Tube	Complete Part Order code	45° Flange Bend Order code	L	R	Weight body (Steel) kg/1 piece
1	39X7.5	**R-316FB45S**	**FB45-16SX**	140	80	1.58
1 1/4	46X8.0	**R-320FB45S**	**FB45-20SX**	150	96	2.18
1 1/2	56X8.5	**R-324FB45S**	**FB45-24SX**	180	116	3.49
2	66X8.5	**R-332FB45S**	**FB45-32SX**	220	165	5.16
2 1/2	80X10.0	**R-340FB45S***	**FB45-40SX***	240	200	8.07
3	97X12.0	**R-348FB45S***	**FB45-48SX***	260	243	12.70

Other sizes on request.
*only available as steel version

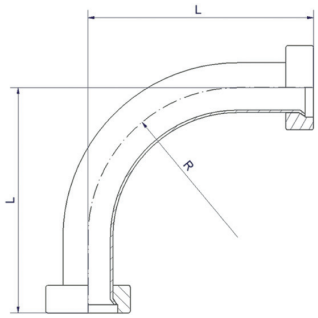
Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Comments
Steel, zinc plated, Cr(VI)-free	CF	R-320FB45CF	
Steel	S	R-320FB45S	
Stainless steel	SS	R-320FB45SS	on request

FB90 – 90° Flange bend

SAE 3000/ISO 6162-1





Size Inch	Tube	Complete Part Order code	L	R
1 1/2	50X5.0	**F37-324FB90**	220	150.0
2	60X5.0	**F37-332FB90**	275	180.0
2 1/2	75X5.0	**F37-340FB90**	370	187.5
3	90X3.5	**F37-348FB90***	450	225.0
3	90x5.0	**F37-348905FB90***	450	225.0

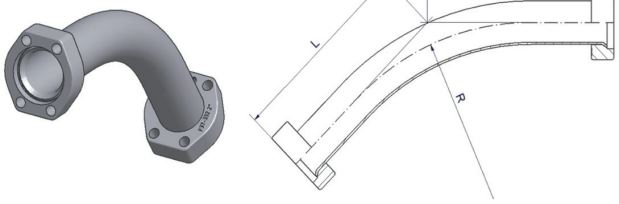
Other sizes on request.
*only available as Steel version, example: F37-348FB90S

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-324FB90CF
Steel	S	F37-348FB90S
Stainless steel	SS	F37-324FB90SS

FB45 – 45° Flange bend

SAE 3000/ISO 6162-1



Size Inch	Tube	Complete Part Order code	L	R
1 1/2	50X5.0	**F37-324FB45**	220	150.0
2	60X5.0	**F37-332FB45**	275	180.0
2 1/2	75X5.0	**F37-340FB45**	370	187.5
3	90X5.0	**F37-348905FB45***	370	187.5

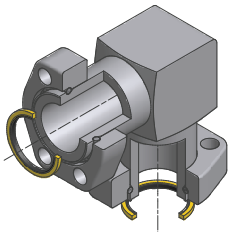
Other sizes on request.
*only available as Steel Version, example: F37-348905FB45S

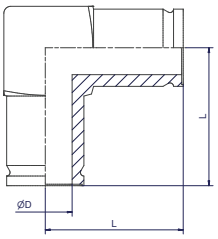
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-324FB45CF
Steel	S	F37-348905FB45S
Stainless steel	SS	F37-324FB45SS

LF – Elbow flange

SAE 3000/ISO 6162-1





Size Inch	Complete Part Order code	Elbow Flange body Order code	D	L	Weight body (Steel) kg/1 piece
1/2	**R-308LFCF**	**LF08CFX**	14	70	0.50
3/4	**R-312LFCF**	**LF12CFX**	20	80	1.07
1	**R-316LFCF**	**LF16CFX**	24	85	1.32
1 1/4	**R-320LFCF**	**LF20CFX**	30	90	1.72
1 1/2	**R-324LFCF**	**LF24CFX**	39	100	2.60
2	**R-332LFCF**	**LF32CFX**	49	110	4.00
2 1/2	**R-340LFCF**	**LF40CFX**	60	140	6.40
3	**R-348LFCF**	**LF48CFX**	73	160	10.80

Other sizes on request.

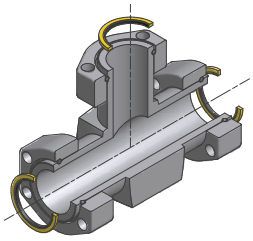
Please change suffixes according to material/surface required

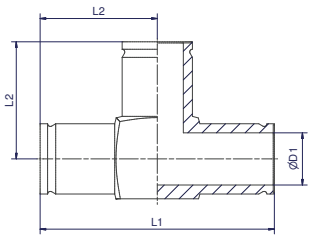
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-320LFCF
Stainless steel	SS	R-320LFSS

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TF – TEE flange

SAE 3000/ISO 6162-1





Size Inch	Complete Part Order code	Tee Flange body Order code	D1	L1	L2	Weight body (Steel) kg/1 piece
1/2	**R-308TFCF**	**TF08CFX**	14	120	60	0.75
3/4	**R-312TFCF**	**TF12CFX**	20	130	65	1.60
1	**R-316TFCF**	**TF16CFX**	24	140	70	2.00
1 1/4	**R-320TFCF**	**TF20CFX**	30	180	90	2.03
1 1/2	**R-324TFCF**	**TF24CFX**	39	200	100	3.13
2	**R-332TFCF**	**TF32CFX**	49	220	110	4.53
2 1/2	**R-340TFCF**	**TF40CFX**	60	260	130	7.05
3	**R-348TFCF**	**TF48CFX**	73	320	160	12.81

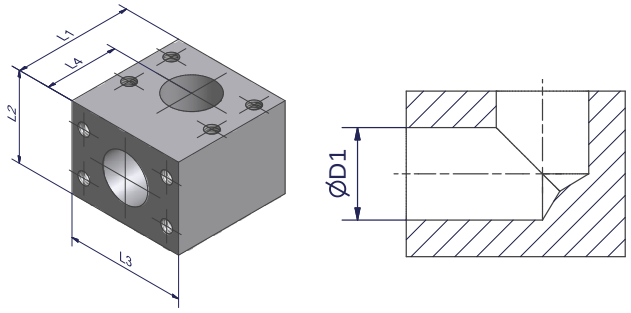
Other sizes on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-320TFCF
Stainless steel	SS	R-320TFSS

LB – Flange L-block

SAE 3000/ISO 6162-1



Size Inch	Order code	D1	L1	L2	L3	L4	Weight (Steel) kg/1 piece
1	**LB316CFX**	25	70	48	70	46	1.5
1 1/4	**LB320CFX**	30	80	58	80	51	2.4
1 1/2	**LB324CFX**	38	90	68	90	56	3.4
2	**LB332CFX**	48	96	78	100	57	4.4
2 1/2	**LB340CFX**	60	110	88	110	65	6.0
3	**LB348CFX**	73	135	110	135	80	11.3

Other sizes and custom versions on request.

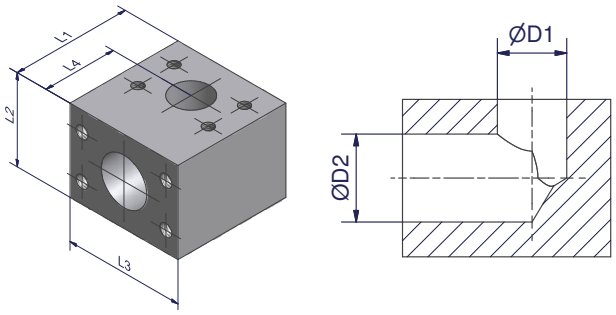
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	LB320CFX
Stainless steel	SS	LB320SSX

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LBR – Flange L-block reducer

SAE 3000/ISO 6162-1



Size Inch	Order code	D1	D2	L1	L2	L3	L4	Weight (Steel) kg/1 piece
1 1/4 - 1	**LBR320-316CFX**	25	30	80	58	80	51	2.4
1 1/2 - 1	**LBR324-316CFX**	25	38	90	68	90	56	3.6
1 1/2 - 1 1/4	**LBR324-320CFX**	30	38	90	68	90	56	3.6
2 - 1	**LBR332-316CFX**	25	48	96	78	100	57	4.7
2 - 1 1/4	**LBR332-320CFX**	30	48	96	78	100	57	4.7
2 - 1 1/2	**LBR332-324CFX**	38	48	96	78	100	57	4.6
2 1/2 - 1 1/2	**LBR340-324CFX**	38	60	110	88	110	65	6.4
2 1/2 - 2	**LBR340-332CFX**	48	60	110	88	110	65	6.2
3 - 2	**LBR348-332CFX**	48	73	135	110	135	80	12.2
3 - 2 1/2	**LBR348-340CFX**	60	73	135	110	135	80	11.8

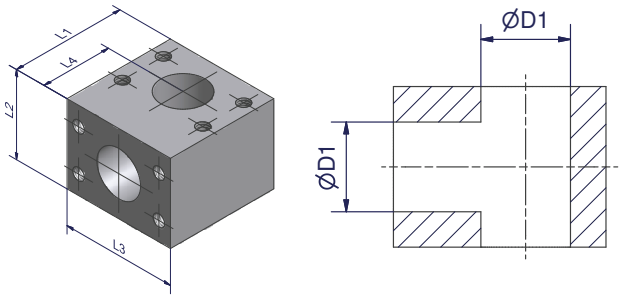
Other sizes and custom versions on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	LBR320-316CFX
Stainless steel	SS	LBR320-316SSX

TB – Flange T-block

SAE 3000/ISO 6162-1



Size Inch	Order code	D1	L1	L2	L3	L4	Weight (Steel) kg/1 piece
1/2	**TB308CFX**	13	60	50	60	37	1.2
3/4	**TB312CFX**	19	68	55	66	44	1.6
1	**TB316CFX**	25	70	55	70	46	1.6
1 1/4	**TB320CFX**	30	80	58	80	51	2.2
1 1/2	**TB324CFX**	38	90	68	90	56	3.1
2	**TB332CFX**	48	96	78	100	57	3.9
2 1/2	**TB340CFX**	60	110	88	110	65	5.3
3	**TB348CFX**	73	135	110	135	80	10.0

Other sizes and custom versions on request.

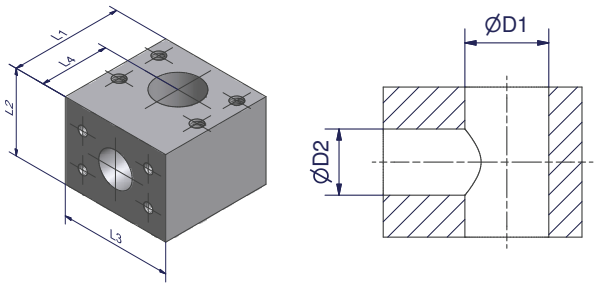
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	TB320CFX
Stainless steel	SS	TB320SSX

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TBR – Flange T-block reducer

SAE 3000/ISO 6162-1



Size Inch	Order code	D1	D2	L1	L2	L3	L4	Weight (Steel) kg/1 piece
1 1/4 - 3/4 - 1 1/4	**TBR320-312-320CFX**	30	19	80	55	80	51	2.2
1 1/4 - 1 - 1 1/4	**TBR320-316-320CFX**	30	25	80	58	80	51	2.3
1 1/2 - 1 1/4 - 1 1/2	**TBR324-320-324CFX**	38	30	90	68	90	56	3.3
1 1/2 - 1 - 1 1/2	**TBR324-316-324CFX**	38	25	90	68	90	56	3.4
2 - 1 1/2 - 2	**TBR332-324-332CFX**	48	38	96	78	100	57	4.2
2 - 1 1/4 - 2	**TBR332-320-332CFX**	48	30	96	78	100	57	4.3
2 1/2 - 2 - 2 1/2	**TBR340-332-340CFX**	60	48	110	88	110	65	5.6
2 1/2 - 1 1/2 - 2 1/2	**TBR340-324-340CFX**	60	38	110	88	110	65	5.9
3 - 2 1/2 - 3	**TBR348-340-348CFX**	73	60	135	110	135	80	10.6
3 - 2 - 3	**TBR348-332-348CFX**	73	48	135	110	135	80	11.0

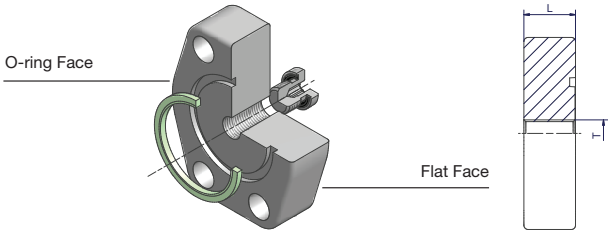
Other sizes and custom versions on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	TBR320-316-320CFX
Stainless steel	SS	TBR320-316-320SSX

BFV – Blind flange

SAE 3000/ISO 6162-1



Size Inch	Flange incl. VSTI-ED and F37 Seal Order code	L	T	Weight body (Steel) kg/1 piece
1/2	**F37-308BFVCF**	19	G 1/4	0.24
3/4	**F37-312BFVCF**	20	G 1/4	0.37
1	**F37-316BFVCF**	24	G 1/4	0.60
1 1/4	**F37-320BFVCF**	22	G 1/4	0.70
1 1/2	**F37-324BFVCF**	25	G 1/4	1.10
2	**F37-332BFVCF**	33	G 1/4	2.00
2 1/2	**F37-340BFVCF**	44	G 1/4	3.45
3	**F37-348BFVCF**	50	G 1/4	5.45

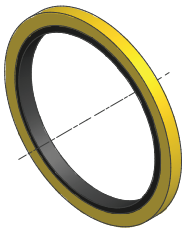
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-320BFVCF
Stainless steel	SS	F37-320BFVSS

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BS – Bonded seal

SAE 3000/ISO 6162-1

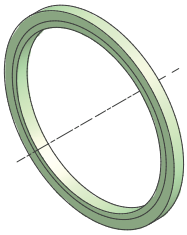


Size Inch	Steel	Stainless Steel
1/2	**BS08SNX**	**BS08SSNX**
3/4	**BS12SNX**	**BS12SSNX**
1	**BS16SNX**	**BS16SSNX**
1 1/4	**BS20SNX**	**BS20SSNX**
1 1/2	**BS24SNX**	**BS24SSNX**
2	**BS32SNX**	**BS32SSNX**
2 1/2	**BS40SNX**	**BS40SSNX**
3	**BS48SNX**	**BS48SSNX**

Sealing: NBR
Other sealing materials like FKM on request.

F37S/F37RS – F37 seal

SAE 3000/ISO 6162-1

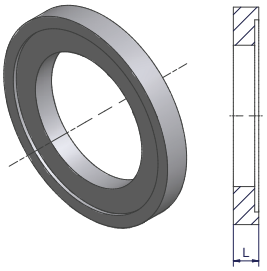


Size Inch	F37 Seal (F37 seal for flaring system)	F37 RS (F37 seal for retaining ring system)
1/2	**F37S08X**	-
3/4	**F37S12X**	-
1	**F37S16X**	-
1 1/4	**F37S20X**	**F37RS20X**
1 1/2	**F37S24X**	**F37RS24X**
2	**F37S32X**	**F37RS32X**
2 1/2	**F37S40X**	**F37RS40X**
3	**F37S48X**	**F37RS48X**

Sealing: Polyurethane
Material properties and applications see page 20.
Other sizes on request.

AO – Adapter bonded seal to F37 seal/O-Ring

SAE 3000/ISO 6162-1



Size Inch	Adapter Order code	L	Weight (Steel) kg/1 piece
1/2	**AO08CFX**	5	0.01
3/4	**AO12CFX**	5	0.02
1	**AO16CFX**	7	0.06
1 1/4	**AO20CFX**	7	0.06
1 1/2	**AO24CFX**	7	0.08
2	**AO32CFX**	7	0.10
2 1/2	**AO40CFX**	7	0.14
3	**AO48CFX**	7	0.20

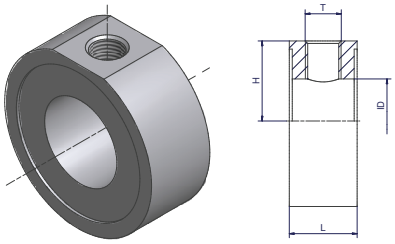
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	AO32CFX
Stainless steel	SS	AO32SSX

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TBT – TEE between bonded seal

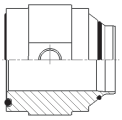
SAE 3000/ISO 6162-1



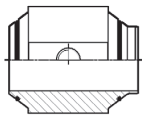
Size Inch	Order code*	L	H	T	ID	Weight body (Steel) kg/1 piece
1	**TBT16-1/4CFX**	25	20.5	G 1/4 A	25	0.21
1 1/4	**TBT20-1/4CFX**	25	24.5	G 1/4 A	27	0.30
1 1/4	**TBT20-1/2CFX**	40	22.5	G 1/2 A	24	0.49
1 1/2	**TBT24-1/4CFX**	25	29.5	G 1/4 A	31	0.42
1 1/2	**TBT24-1/2CFX**	40	28.0	G 1/2 A	30	0.68
2	**TBT32-1/4CFX**	25	35.0	G 1/4 A	41	0.51
2	**TBT32-1/2CFX**	40	34.0	G 1/2 A	38	0.87
2 1/2	**TBT40-1/4CFX**	30	41.5	G 1/4 A	60	0.63
3	**TBT48-1/4CFX**	30	50.0	G 1/4 A	72	0.90

*For testpoints and diagnostic test equipment see catalogue 4100, Industrial Tube Fittings Europe.
For assembling add L to the corresponding bolt length.

Alternative versions on request.



TFVB



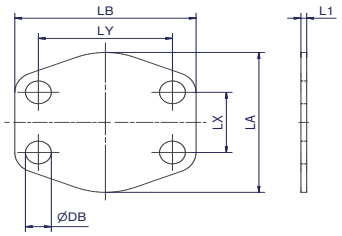
TTB

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	TBT24-1/4CFX
Stainless steel	SS	TBT24-1/4SSX

AP – SAE flange locking plate

SAE 3000/ISO 6162-1



Nom. flange size		Order code	L1	LA	LB	LX	LY	DB	Weight body (Steel) kg/1 piece
SAE (In)	ISO (DN)								
1/2	13	**8AP1**	3	46	54	17.5	38.1	9.0	0.01
3/4	19	**12AP1**	3	52	65	22.3	47.6	11.0	0.01
1	25	**16AP1**	3	59	70	26.2	52.4	11.0	0.01
1 1/4	32	**20AP1**	3	73	79	30.2	58.7	11.5	0.01
1 1/2	38	**24AP1**	3	83	94	35.7	69.9	13.5	0.02
2	51	**32AP1**	3	97	102	42.9	77.8	13.5	0.02
2 1/2	64	**40AP1**	3	109	114	50.8	88.9	13.5	0.03
3	76	**48AP1**	4	131	135	61.9	106.4	17.0	0.06

This flange locking plate to be not used under pressure!

Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Description
Steel, zinc plated, Cr(VI)-free	CF	8AP1CF	only locking plate
Stainless steel	SS	8AP1SS	only locking plate
Steel (zinc plated, Cr(VI)-free), SBR 70 Shore A	CFSBR70	8AP1CFSBR70	locking incl. rubber plate L1 increases due to rubber plate

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Bolts and nuts for flange

SAE 3000/ISO 6162-1



F37 Flare Flange

Size Inch	Flange	F37 Seal / Flat Face / Bonded Seal		Nut
		Recommended bolts Tube to Port	Recommended bolts Tube to Tube	
1/2	F37-308-CFX	4x ZYLS8X35	4x ZYLS8X55	4x ISO4032-M8
3/4	F37-312-CFX	4x ZYLS10X40	4x ZYLS10X65	4x ISO4032-M10
1	F37-316-CFX	4x ZYLS10X45	4x ZYLS10X75	4x ISO4032-M10
1 1/4	F37-320-CFX	4x ZYLS10X40	4x ZYLS10X70	4x ISO4032-M10
1 1/2	F37-324-CFX	4x ZYLS12X45	4x ZYLS12X80	4x ISO4032-M12
2	F37-332-CFX	4x ZYLS12X55	4x ZYLS12X100	4x ISO4032-M12
2 1/2	F37-340-CFX	4x ZYLS12X65	4x ZYLS12X120	4x ISO4032-M12
3	F37-348-CFX	4x ZYLS16X80	4x ZYLS16X140	4x ISO4032-M16

Retaining Ring Flange

Size Inch	Flange	F37 Seal / Flat Face / Bonded Seal		Pipe Seal Carrier (PSC)		Nut
		Recommended bolts Tube to Port	Recommended bolts Tube to Tube	Recommended bolts Tube to Port	Recommended bolts Tube to Tube	
1/2	R-308-CFX	4x ZYLS8X35	4x ZYLS8X60	-	-	4x ISO4032-M8
3/4	R-312-CFX	4x ZYLS10X40	4x ZYLS10X65	-	-	4x ISO4032-M10
1	R-316-CFX	4x ZYLS10X40	4x ZYLS10X70	-	-	4x ISO4032-M10
1 1/4	R-320-CFX	4x ZYLS10X40	4x ZYLS10X70	4x ZYLS10X50	4x ZYLS10X80	4x ISO4032-M10
1 1/2	R-324-CFX	4x ZYLS12X50	4x ZYLS12X80	4x ZYLS12X55	4x ZYLS12X90	4x ISO4032-M12
2	R-332-CFX	4x ZYLS12X55	4x ZYLS12X90	4x ZYLS12X65	4x ZYLS12X100	4x ISO4032-M12
2 1/2	R-340-CFX	4x ZYLS12X65	4x ZYLS12X120	4x ZYLS12X80	4x ZYLS12X130	4x ISO4032-M12
3	R-348-CFX	4x ZYLS16X80	4x ZYLS16X130	4x ZYLS16X90	4x ZYLS16X150	4x ISO4032-M16

Bolts and nuts are not included in complete part numbers.

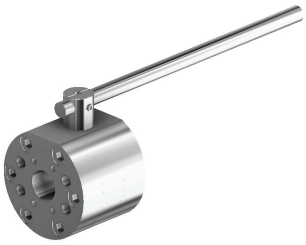
Latest information about nuts and bolts see www.parker.com/hpce -> Support -> Literature and Reference Materials -> Manuals

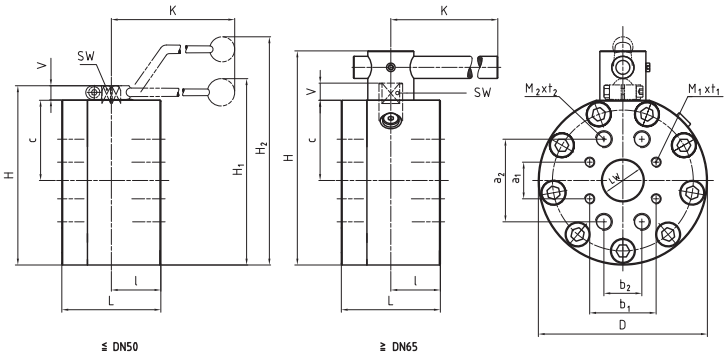
Please add the suffixes according to the bolt quality

	Steel		Stainless Steel
Grade	8.8	10.9	A4-80X
Bolt	ZYLS16X60VZX	ZYLS16X60109X	ZYLS16X60A4-80X
Nut	ISO4032-M12-8VZX	ISO4032-M12-10X	ISO4032-M12-80X

KH – Ball valve drilled and tapped for SAE 3000 and SAE 6000 Flanges

SAE 3000/ISO 6162-1





Material Steel

Size Inch	Order Code	DN	LW	L	l	D	H	c	V	K	SW	SAE 3000 boring pattern				SAE 6000 boring pattern				H1	H2	Material Code	Lever	Weight kg	W.P. (bar)
												a1	b1	M1	t1	a2	b2	M2	t2						
1/2	**KH08-15CF**	15	15	75	35	88	88	31.0	13	170	12	17.5	38.1	M08	18	40.5	18.2	M08	18	-	132	**212A**	St	2.96	350 / 420
3/4	**KH12-20CF**	20	20	80	35	98	100	36.5	14	170	14	22.2	47.6	M10	18	50.8	23.8	M10	18	-	150	**212A**	St	4.20	350 / 420
1	**KH16-25CF**	25	25	88	38	118	113	39.5	14	170	14	26.2	52.4	M10	20	57.2	27.8	M10	20	-	163	**212A**	St	6.00	320 / 420
1 1/4	**KH20-32CF***	32	32	100	50	145	158	68.0	17	306	17	30.2	58.7	M10	20	66.7	31.8	M12	22	-	232	**212A**	St	11.70	280 / 420
1 1/4	**KH20-32TM1214CF***	32	32	100	50	145	158	68.0	17	306	17	30.2	58.7	M12	20	66.7	31.8	M14	22		232	**212A**	St	11.65	210 / 400
1 1/2	**KH24-38CF**	40	38	110	55	165	178	78.0	17	306	17	35.7	69.9	M12	20	79.4	36.5	M16	27	-	252	**212A**	St	17.10	210 / 420
2	**KH32-48CF**	50	48	116	58	198	210	94.0	17	306	17	42.9	77.8	M12	20	96.8	44.5	M20	28	-	284	**212A**	St	24.60	210 / 420
2 1/2	**KH40-63CF**	65	63	170	75	218	275	100.0	20	600	16	88.9	50.8	M12	19	58.7	123.8	M24	41	-	-	**282A**	St	44.40	175 / 420
3	**KH48-76CF**	80	76	170	79	258	315	115.0	26	600	19	106.4	61.9	M16	24	71.4	152.4	M30	47	-	-	**282A**	St	54.90	160 / 420

*Please choose between KH20-32CF and KH20-32TM1214CF according to needed connection threads M1 and M2.
Steel ball valves 1/2" up to 3" with SAE 3000 and SAE 6000 boring pattern.
The bore pattern for 2 1/2" and 3" is turned to 90°.

Please change suffixes according to material/surface required

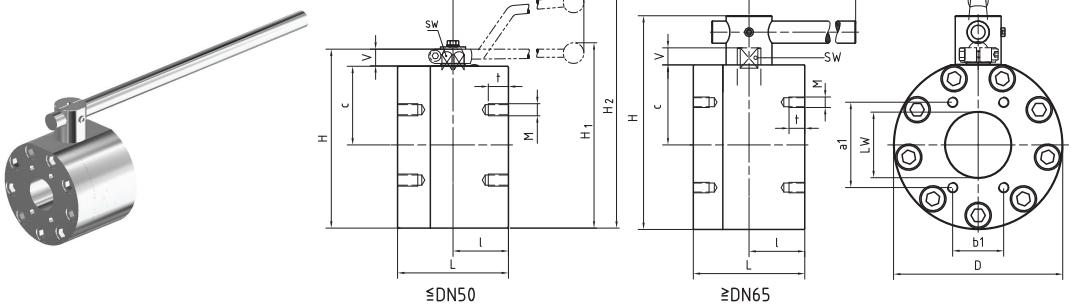
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	KH20-32CF

	Material 212A	Material 282A
Body	Steel	Steel
Ball	Steel	Steel
Stem	Steel	Stainless Steel
Ball seats	POM	POM
O-Ring	NBR	NBR
Tmin / T max	-10°C / 100°C	-10°C / 100°C

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KH – Ball valve drilled and tapped for SAE 3000 Flanges

SAE 3000/ISO 6162-1



Material Stainless Steel

Size Inch	Order Code	DN	LW	L	l	D	H	c	V	K	SW	a1	b1	M	t	H1	H2	Material Code	Lever	Weight kg	W.P. (bar)
1/2	**KH308-15SS**	15	15	75	35	78	83	31.0	13	160	12	38.1	17.5	M08	18	-	127	**442A**	Al	2.96	350
3/4	**KH312-20SS**	20	20	80	35	98	100	36.5	14	200	14	47.6	22.2	M10	18	103	-	**442A**	Zn	4.20	350
1	**KH316-25SS**	25	25	88	38	118	113	39.5	14	200	14	52.4	26.2	M10	20	116	-	**442A**	Zn	6.00	320
1 1/4	**KH320-32SS***	32	32	100	50	145	158	68.0	17	320	17	58.7	30.2	M10	20	167	-	**442A**	Al	11.70	280
1 1/4	**KH320-32TM12SS***	32	32	100	50	145	158	68.0	17	320	17	58.7	30.2	M12	20	167		**442A**	Al	11.65	210
1 1/2	**KH324-38SS**	40	38	110	55	165	178	78.0	17	320	17	69.9	35.7	M12	20	187	-	**442A**	Al	17.10	210
2	**KH332-48SS**	50	48	116	58	198	210	94.0	17	320	17	77.8	42.9	M12	20	219	-	**442A**	Al	24.60	210
2 1/2	**KH340-63SS**	65	63	150	75	198	259	94.0	20	600	16	88.9	50.8	M12	19	-	-	**442A**	St	35.50	175
3	**KH348-76SS**	80	76	150	79	218	284	104.0	26	600	19	106.4	61.9	M16	24	-	-	**442A**	St	40.00	160

*Please choose between KH320-32SS and KH320-32TM12SS according to needed connection thread M.
For 4" and 5" Ball valves see chapter Parflange® F37 - SAE 1000/ISO 6162-1 footprint.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Stainless steel	SS	KH320-32SS

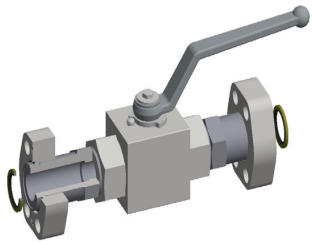
	Material 442A
Body	Stainless Steel
Ball	Stainless Steel
Stem	Stainless Steel
Ball seats	POM
O-Ring	NBR
Tmin / T max	-30°C / 100°C

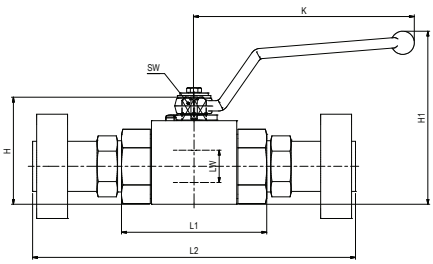
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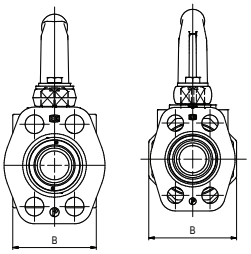
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KH-R – Ball valve with SAE 3000 Flanges

SAE 3000/ISO 6162-1





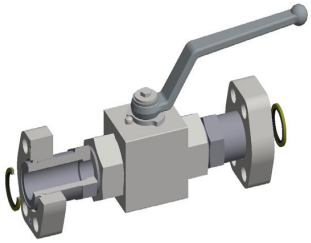


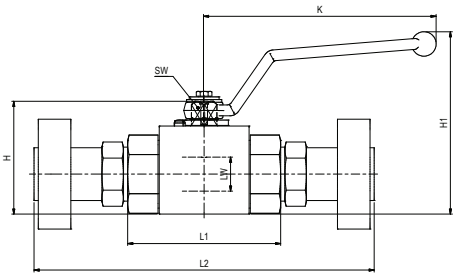
≤1" >1"

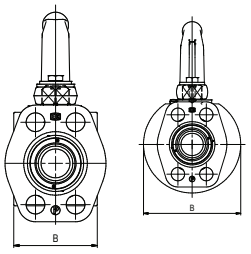
Material Steel

Size Inch	Complete part Order code	Valve body Order code	LW	L1	L2	B	H	SW	K	H1	Weight (Steel) kg/1 kit	W.P. bar
3/4	**KH-R-312-20CF**	KH-R-12-20CF	20	95	217	49	75	14	170	129	2.5	315
1	**KH-R-316-25CF**	KH-R-16-25CF	25	113	251	58	83	14	170	135	3.8	315
1 1/4	**KH-R-320-32CF**	KH-R-20-32CF	32	111	271	81	107	17	306	178	6.0	280
1 1/2	**KH-R-324-38CF**	KH-R-24-38CF	38	130	316	100	124	17	306	196	8.4	280
2	**KH-R-332-48CF**	KH-R-32-48CF	48	140	348	118	138	17	306	210	13.9	280

Other sizes on request.







≤1" >1"

Material Stainless Steel

Size Inch	Complete part Order code	Valve body Order code	LW	L1	L2	B	H	SW	K	H1	Weight (Steel) kg/1 kit	W.P. bar
3/4	**KH-R-312-20SS**	KH-R-12-20SS	20	95	217	49	75	14	170	129	2.5	315
1	**KH-R-316-25SS**	KH-R-16-25SS	25	113	251	58	83	14	170	135	3.8	315
1 1/4	**KH-R-320-32SS**	KH-R-20-32SS	32	111	271	109	121	17	306	192	8.6	280
1 1/2	**KH-R-324-38SS**	KH-R-24-38SS	38	130	316	124	136	17	306	207	12.0	280
2	**KH-R-332-48SS**	KH-R-32-48SS	48	140	348	132	145	17	306	217	16.1	280

Other sizes on request.

Please change suffixes according to material/surface required

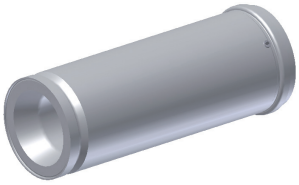
Order code suffixes			
Material	Suffix surface and material	Example	Comments
Steel, zinc plated, Cr(VI)-free	CF	KH-R-320-32CF	
Stainless steel	SS	KH-R-320-32SS	on request

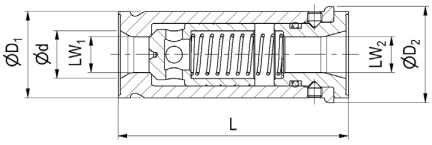
	Material 112A	Material 442A
Body	Steel	Stainless Steel
Ball	Steel	Stainless Steel
Stem	Steel	Stainless Steel
Ball seats	POM	POM
O-Ring	NBR	NBR
Tmin / T max	-20°C / 100 °C	-30°C / 100°C

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RHD-R – Non return valves

SAE 3000/ISO 6162-1





Size Inch	Complete part Order code	Valve body Order code	L	D1	D2	d	LW1	LW2	Weight body (Steel) kg/1 piece	W.P. bar
3/4	**RHD-R-312-0.5BCF**	RHD-R-12-0.5BCF	96.4	36	40.2	20.0	15	15.0	0.53	
1	**RHD-R-316-0.5BCF**	RHD-R-16-0.5BCF	116.6	39	44.2	23.0	18	13.0	0.78	
1 1/4	**RHD-R-320-0.5BCF**	RHD-R-20-0.5BCF	135.6	46	51.1	30.0	20	17.0	1.26	
1 1/2	**RHD-R-324-0.5BCF**	RHD-R-24-0.5BCF	135.6	56	60.5	38.8	30	27.0	1.61	210
2	**RHD-R-332-0.5BCF**	RHD-R-32-0.5BCF	180.1	66	70.5	49.0	40	36.4	2.54	
2 1/2	**RHD-R-340-0.5BCF**	RHD-R-40-0.5BCF	190.0	80	84.5	60.0	50	46.8	3.89	
3	**RHD-R-348-0.5BCF**	RHD-R-48-0.5BCF	200.0	97	103.2	73.0	63	62.8	5.90	

Opening pressure 0.5 bar. Other pressure rates on request.
Complete Part = body + flanges + retaining rings + bonded seals.

Please change suffixes according to material/surface required

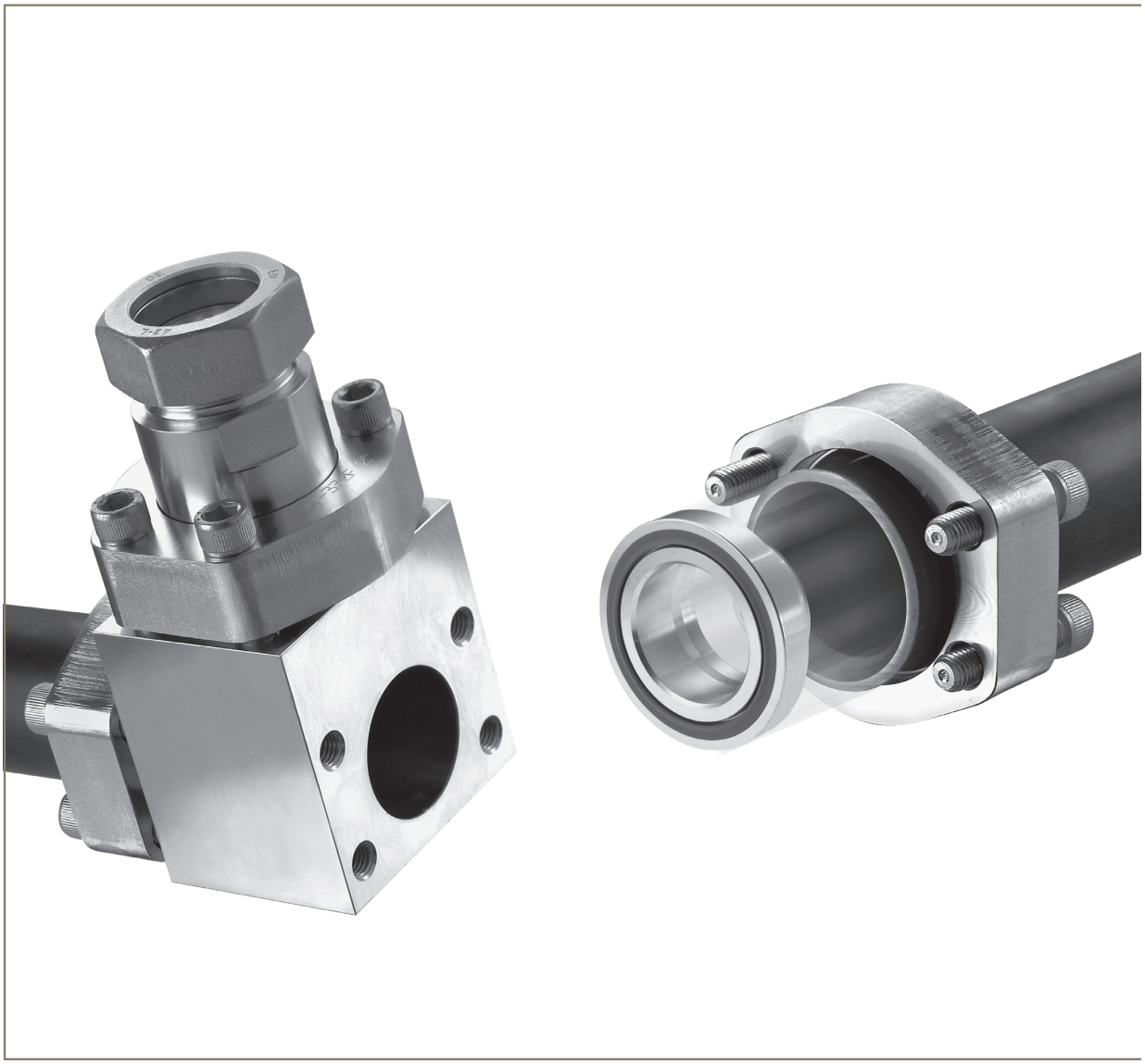
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	RHD-R-320-0.5BCF
Stainless steel (inner parts steel)	SS	RHD-R-320-0.5BSS

	Materials
Body	Steel/Stainless Steel
Piston	Steel
O-Ring	NBR
Tmin / T max	-10°C / 100 °C

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Notes



SAE 6000 System

420 bar

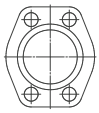
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Programme overview SAE 6000/ISO 6162-2 footprint

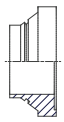
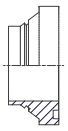
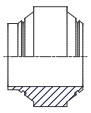
Parflange® F37 connection parts

Flanges



F37 – p.109/110

Inserts


TFB – p.113 **TFV** – p.114 **TT** – p.115 **TF** – p.116

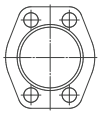
Sleeve



SL – p.117

Retaining ring connection parts

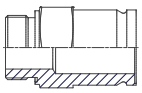
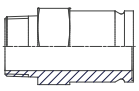
Flanges





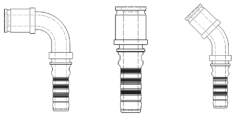
R – p.111 **R-Ring** – p.118 **PSC** – p.112

Male / Female


MTF-R – p.119 **MTF-N** – p.120 **FTF-R** – p.121

Hose



Hose – p.122-124

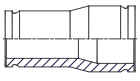
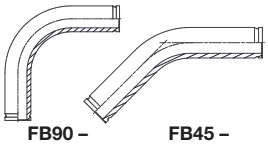
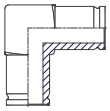
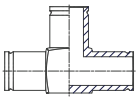
Weld



WA – p.125/126

Tube to Tube

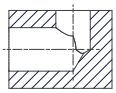
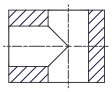
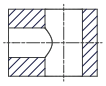


BF – p.127 **VB** – p.128 **RF** – p.129 **FB90** – p.130/132 **FB45** – p.131/133 **LF** – p.134 **TF** – p.135

SAE connection parts

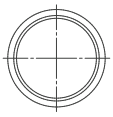
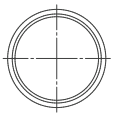
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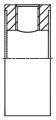






LB – p.136 **LBR** – p.137 **TB** – p.138 **TBR** – p.139 **BFV** – p.140

Seals Adapter Bolts

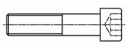
Components



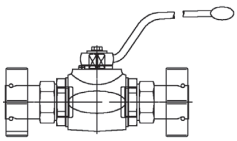
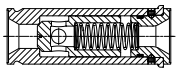

BS – p.141 **F37S** – p.141 **AO** – p.142 **TBT** – p.143 **AP** – p.144

Bolts and Nuts



p.145

Ball valves

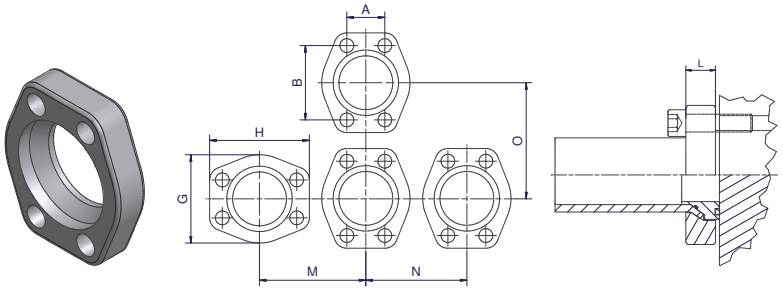




KH – p.146/147 **KH-R** – p.148 **RHD-R**– p.149

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F37 – Flare flange | SAE 6000/ISO 6162-2 footprint

SAE 6000/ISO 6162-2



Parflange F37 flange dimensions
* Jump size flanges (no adapter sleeves (SL...) necessary).

Size Inch	Flange Order code	A	B	G	H	M	N	O	L	Weight body (Steel) kg/1 piece	W.P. bar
1/2	**F37-608-CFX**	18.2	40.5	48	56	57	53	61	20	0.20	420
3/4	**F37-612-CFX**	23.8	50.8	60	71	70	65	76	24	0.35	420
3/4	**F37-612/25-CFX***	23.8	50.8	60	71	70	65	76	24	0.45	420
1	**F37-616-CFX**	27.8	57.2	70	81	80	75	86	24	0.53	420
1	**F37-616/25-CFX***	27.8	57.2	70	81	80	75	86	24	0.64	420
1	**F37-616/30-CFX***	27.8	57.2	70	81	80	75	86	24	0.59	420
1 1/4	**F37-620-CFX**	31.8	66.6	78	95	91	83	100	30	0.92	420
1 1/4	**F37-620H12-CFX****	31.8	66.6	78	95	91	83	100	30	0.96	420
1 1/4	**F37-620/38-CFX***	31.8	66.6	78	95	91	83	100	30	0.96	420
1 1/4	**F37-620H12/38-CFX****	31.8	66.6	78	95	91	83	100	30	1.01	420
1 1/2	**F37-624-CFX**	36.5	79.3	95	112	109	100	118	35	1.54	420
1 1/2	**F37-624/38-CFX***	36.5	79.3	95	112	109	100	118	35	1.74	420
1 1/2	**F37-624/42-CFX***	36.5	79.3	95	112	109	100	118	35	1.72	420
2	**F37-632-CFX**	44.5	96.8	114	134	129	119	139	40	2.44	420
2	**F37-632/50-CFX***	44.5	96.8	114	134	129	119	139	40	2.76	420

**Flange for size M12 bolts.

Parflange F37 threaded flange dimensions
* Jump size flanges (no adapter sleeves (SL...) necessary).

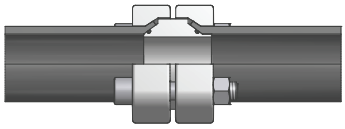
Size Inch	Flange Order code	A	B	G	H	M	N	O	L	Thread	Weight body (Steel) kg/1 piece	W.P. bar
1/2	**F37-608T-CFX**	18.2	40.5	48	56	57	53	61	20	M08	0.20	420
3/4	**F37-612T-CFX**	23.8	50.8	60	71	70	65	76	24	M10	0.35	420
3/4	**F37-612/25T-CFX**	23.8	50.8	60	71	70	65	76	24	M10	0.49	420
1	**F37-616T-CFX**	27.8	57.2	70	81	80	75	86	24	M12	0.57	420
1	**F37-616/25T-CFX***	27.8	57.2	70	81	80	75	86	24	M12	0.68	420
1	**F37-616/30T-CFX***	27.8	57.2	70	81	80	75	86	24	M12	0.63	420
1 1/4	**F37-620T-CFX**	31.8	66.6	78	95	91	83	100	30	M14	0.92	420
1 1/4	**F37-620TM12-CFX****	31.8	66.6	78	95	91	83	100	30	M12	1.01	420
1 1/4	**F37-620/38T-CFX***	31.8	66.6	78	95	91	83	100	30	M14	1.03	420
1 1/4	**F37-620TM12/38-CFX****	31.8	66.6	78	95	91	83	100	30	M12	1.06	420
1 1/2	**F37-624T-CFX**	36.5	79.3	95	112	109	100	118	35	M16	1.64	420
1 1/2	**F37-624/38T-CFX***	36.5	79.3	95	112	109	100	118	35	M16	1.82	420
2	**F37-632T-CFX**	44.5	96.8	114	134	129	119	139	40	M20	2.44	420

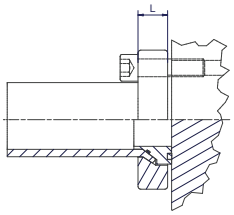
**Flange for size M12 bolts.
Pressure rates related to flanges. Other sizes / jump sizes on request.

Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Comments
Steel, zinc plated, Cr(VI)-free	CF	F37-620-CFX	
Stainless steel	SS	F37-620-SSX	
Galvanized hot dip zinc	TZN	F37-620-TZNX	on request

Parflange® F37 – SAE 6000/ISO 6162-2





Part combination flaring SAE 6000

Flange Pressure (bar)	Size Inch	Pipe Size	Flange SAE 6000 ISO 6162-2	Insert*	Sleeve
	1/2	16X2.0	F37-608-CFX	IN08-16X2.0T...	SL08-25-16-CFX
	1/2	18X2.0	F37-608-CFX	IN08-18X2.0T...	SL08-25-18-CFX
	1/2	20X2.0	F37-608-CFX	IN08-20X2.0T...	SL08-25-20-CFX
	1/2	20X2.5	F37-608-CFX	IN08-20X2.5T...	SL08-25-20-CFX
	1/2	25X2.5	F37-608-CFX	IN08-25X2.5T...	
	1/2	25X3.0	F37-608-CFX	IN08-25X3.0T...	
	3/4	20X2.0	F37-612-CFX	IN12-20X2.0T...	SL12-30-20-CFX
	3/4	20X2.5	F37-612-CFX	IN12-20X2.5T...	SL12-30-20-CFX
	3/4	25X2.5	F37-612-CFX	IN12-25X2.5T...	SL12-30-25-CFX**
	3/4	25X3.0	F37-612-CFX	IN12-25X3.0T...	SL12-30-25-CFX**
	3/4	30X3.0	F37-612-CFX	IN12-30X3.0T...	
	3/4	30X4.0	F37-612-CFX	IN12-30X4.0T...	
	1	25X2.5	F37-616-CFX	IN16-25X2.5T...	SL16-38-25-CFX**
	1	25X3.0	F37-616-CFX	IN16-25X3.0T...	SL16-38-25-CFX**
	1	30X3.0	F37-616-CFX	IN16-30X3.0T...	SL16-38-30-CFX**
	1	30X4.0	F37-616-CFX	IN16-30X4.0T...	SL16-38-30-CFX**
	1	38X2.5	F37-616-CFX	IN16-38X2.5T...	
	1	38X3.0	F37-616-CFX	IN16-38X3.0T...	
	1	38X4.0	F37-616-CFX	IN16-38X4.0T...	
	1	38X5.0	F37-616-CFX	IN16-38X5.0T...	
420	1 1/4	30X3.0	F37-620-CFX***	IN20-30X3.0T...	SL20-42-30-CFX
	1 1/4	30X4.0	F37-620-CFX***	IN20-30X4.0T...	SL20-42-30-CFX
	1 1/4	38X3.0	F37-620-CFX***	IN20-38X3.0T...	SL20-42-38-CFX**
	1 1/4	38X4.0	F37-620-CFX***	IN20-38X4.0T...	SL20-42-38-CFX**
	1 1/4	38X5.0	F37-620-CFX***	IN20-38X5.0T...	SL20-42-38-CFX**
	1 1/4	42X3.0	F37-620-CFX***	IN20-42X3.0T...	
	1 1/4	42X4.0	F37-620-CFX***	IN20-42X4.0T...	
	1 1/2	38X3.0	F37-624-CFX	IN24-38X3.0T...	SL24-50-38-CFX**
	1 1/2	38X4.0	F37-624-CFX	IN24-38X4.0T...	SL24-50-38-CFX**
	1 1/2	38X5.0	F37-624-CFX	IN24-38X5.0T...	SL24-50-38-CFX**
	1 1/2	42X3.0	F37-624-CFX	IN24-42X3.0T...	SL24-50-42-CFX**
	1 1/2	42X4.0	F37-624-CFX	IN24-42X4.0T...	SL24-50-42-CFX**
	1 1/2	50X3.0	F37-624-CFX	IN24-50X3.0T...	
	1 1/2	50X5.0	F37-624-CFX	IN24-50X5.0T...	
	1 1/2	50X6.0	F37-624-CFX	IN24-50X6.0T...	
	2	50X3.0	F37-632-CFX	IN32-50X3.0T...	SL32-60-50-CFX**
	2	50X5.0	F37-632-CFX	IN32-50X5.0T...	SL32-60-50-CFX**
	2	50X6.0	F37-632-CFX	IN32-50X6.0T...	SL32-60-50-CFX**
	2	60X3.0	F37-632-CFX	IN32-60X3.0T...	
	2	60X5.0	F37-632-CFX	IN32-60X5.0T...	
	2	60X6.0	F37-632-CFX	IN32-60X6.0T...	

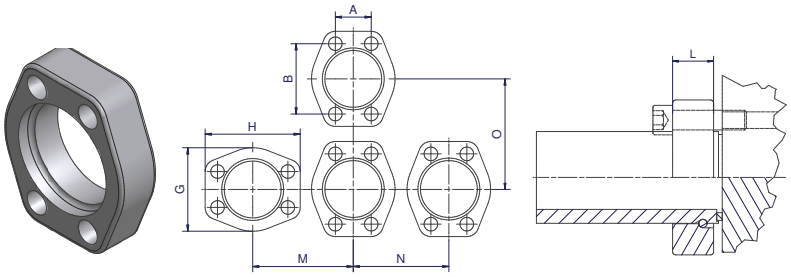
Select the complete version:

* …FBCF Bonded Seal version
…FVCF F37 Seal version
…TCF Tube to Tube version
…FCF Flat Face version

**Jump size flanges available alternatively to adapter sleeve, see page 109.
***Flanges for M12 bolts also available (F37-620H12-CFX).
Other sizes like schedule on request.
Bolts and nuts are not included in complete part numbers.
For recommended bolts and nuts see page 145.

R – Retaining ring flange | SAE 6000/ISO 6162-2 footprint

SAE 6000/ISO 6162-2



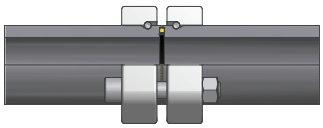
Retaining ring flange dimensions

Size Inch	Flange Order code	A	B	G	H	M	N	O	L	Weight body (Steel) kg/1 piece	W.P. bar
1/2	**R-608-CFX**	18.2	40.5	48	56	57	53	61	20	0.22	420
3/4	**R-612-CFX**	23.8	50.8	60	71	70	65	76	24	0.39	420
1	**R-616-CFX**	27.8	57.2	70	81	80	75	86	24	0.55	420
1 1/4	**R-620-CFX**	31.8	66.6	78	95	91	83	100	30	0.89	420
1 1/4	**R-620H12-CFX***	31.8	66.6	78	95	91	83	100	30	0.92	420
1 1/2	**R-624-CFX**	36.5	79.3	95	112	109	100	118	35	1.46	420
2	**R-632-CFX**	44.5	96.8	114	134	129	119	139	40	2.35	420
2 1/2	**R-640-CFX**	58.7	123.8	150	176	169	156	183	50	5.96	420
3	**R-648-CFX**	71.4	152.4	176	212	202	184	218	52	8.41	420

*Flange for size M12 bolts.
Pressure rates related to flanges.
Other sizes like schedule on request.
For all sizes also threaded flanges available (...T-CFX, R-620TM12-CFX).

Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Comments
Steel, zinc plated, Cr(VI)-free	CF	R-620-CFX	
Stainless steel	SS	R-620-SSX	
Galvanized hot dip zinc	TZN	R-620-TZNX	on request



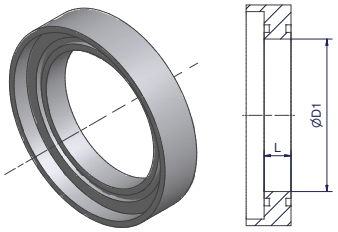
Part combination Bonded seal SAE 6000 connection

Flange pressure (bar)	Size Inch	Pipe Size	Flange	Retaining Ring	Bonded Seal
420	1/2	26X6.0	R-608-CFX	R08X	BS08SNX
	3/4	36X8.0	R-612-CFX	R12X	BS12SNX
	1	39X7.5	R-616-CFX	R16X	BS16SNX
	1 1/4	46X8.0	R-620-CFX	R20X	BS20SNX
	1 1/2	56X8.5	R-624-CFX	R24X	BS24SNX
	2	66X8.5	R-632-CFX	R32X	BS32SNX
	2 1/2	80X10.0	R-640-CFX	R40X	BS40SNX
	3	97X12.0	R-648-CFX	R48X	BS48SNX

For recommended bolts and nuts see page 145.

PSC – Pipe seal carrier | SAE 6000/ISO 6162-2 footprint

SAE 6000/ISO 6162-2

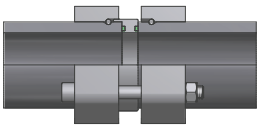


Size Inch	Pipe size	Seal carrier incl. F37 Seal	Seal carrier incl. O-Ring	L	D1	F37 Seal	O-Ring
1 1/4	46X8.0	PSC20-46X8.0VCF	PSC20-46X8.0OCF	8.0	30	F37RS20X	OR34.59X2.62X
1 1/2	56X8.5	PSC24-56X8.5VCF	PSC24-56X8.5OCF	10.0	39	F37RS24X	OR44.12X2.62X
2	66X8.5	PSC32-66X8.5VCF	PSC32-66X8.5OCF	10.0	49	F37RS32X	OR55.25X2.62X
2 1/2	80X10.0	PSC40-80X10VCF	PSC40-80X10OCF	15.0	60	F37RS40X	OR66.27X3.53X
3	97X12.0	PSC48-97X12VCF	PSC48-97X12OCF	15.0	73	F37RS48X	OR78.97X3.53X

Other sizes on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free, F37-Seal	VCF	PSC40-80X10VCF
Stainless steel, F37-Seal	VSS	PSC40-80X10VSS
Steel, zinc plated, Cr(VI)-free, O-Ring (NBR)	OCF	PSC40-80X10OCF
Stainless steel, O-Ring (NBR)	OSS	PSC40-80X10OSS



Example of Part combination Pipe seal carrier SAE 6000 connection

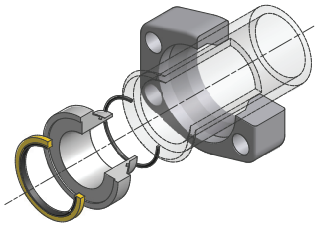
Flange pressure (bar)	Size Inch	Pipe Size	Flange	Retaining Ring	Seal Carrier
420	1 1/4	46X8.0	R-620-CFX or R-620H12-CFX	R20X	PSC20-46X8.0VCF
	1 1/2	56X8.5	R-624-CFX	R24X	PSC24-56X8.5VCF
	2	66X8.5	R-632-CFX	R32X	PSC32-66X8.5VCF
	2 1/2	80X10.0	R-640-CFX	R40X	PSC40-80X10VCF
	3	97X12.0	R-648-CFX	R48X	PSC48-97X12VCF

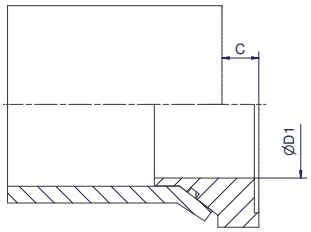
Other sizes on request.
Bolts and nuts are not included in complete part numbers. For recommended bolts and nuts see page 145.

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TFB – Flare flange connection

Tube to port connection, bonded seal





Size		Flange* incl. Insert + Bonded Seal + O-Ring Order code	D1	C	Insert incl. Bonded Seal + O-Ring Order code	Bonded Seal Order code	O-Ring Order code	Weight (Steel) kg/1 kit
Inch	Tube							
1/2	16X2.0	**F37-608-16X2.0TFBCF**	9.5	8.0	IN08-16X2.0TFBCF	BS08SNX	OR12X1.0X	0.24
1/2	18X2.0	**F37-608-18X2.0TFBCF**	11.5	8.0	IN08-18X2.0TFBCF	BS08SNX	OR14X1.0X	0.24
1/2	20X2.0	**F37-608-20X2.0TFBCF**	13.5	8.0	IN08-20X2.0TFBCF	BS08SNX	OR16X1.0X	0.24
1/2	20X2.5	**F37-608-20x2.5TFBCF**	13.5	8.0	IN08-20X2.5TFBCF	BS08SNX	OR16X1.0X	0.24
1/2	25X2.5	**F37-608-25X2.5TFBCF**	13.5	10.0	IN08-25X2.5TFBCF	BS08SNX	OR20X1.0X	0.25
1/2	25X3.0	**F37-608-25X3.0TFBCF**	13.0	8.0	IN08-25X3.0TFBCF	BS08SNX	OR20X1.0X	0.24
3/4	20X2.0	**F37-612-20X2.0TFBCF**	13.5	8.0	IN12-20X2.0TFBCF	BS12SNX	OR16X1.0X	0.41
3/4	20X2.5	**F37-612-20X2.5TFBCF**	12.5	8.0	IN12-20X2.5TFBCF	BS12SNX	OR16X1.0X	0.41
3/4	25X2.5	**F37-612-25X2.5TFBCF**	17.5	10.0	IN12-25X2.5TFBCF	BS12SNX	OR20X1.0X	0.41
3/4	25X3.0	**F37-612-25X3.0TFBCF**	16.5	8.0	IN12-25X3.0TFBCF	BS12SNX	OR20X1.0X	0.42
3/4	30X3.0	**F37-612-30X3.0TFBCF**	19.0	8.5	IN12-30X3.0TFBCF	BS12SNX	OR25X1.0X	0.42
3/4	30X4.0	**F37-612-30X4.0TFBCF**	19.5	8.5	IN12-30X4.0TFBCF	BS12SNX	OR22X1.0X	0.42
1	25X2.5	**F37-616-25X2.5TFBCF**	17.5	10.0	IN16-25X2.5TFBCF	BS16SNX	OR20X1.0X	0.62
1	25X3.0	**F37-616-25X3.0TFBCF**	16.5	8.0	IN16-25X3.0TFBCF	BS16SNX	OR20X1.0X	0.62
1	30X3.0	**F37-616-30X3.0TFBCF**	21.5	8.5	IN16-30X3.0TFBCF	BS16SNX	OR25X1.0X	0.62
1	30X4.0	**F37-616-30X4.0TFBCF**	19.5	8.5	IN16-30X4.0TFBCF	BS16SNX	OR22X1.0X	0.62
1	38X2.5	**F37-616-38X2.5TFBCF**	25.0	9.5	IN16-38X2.5TFBCF	BS16SNX	OR34X1.0X	0.64
1	38X3.0	**F37-616-38X3.0TFBCF**	25.0	9.0	IN16-38X3.0TFBCF	BS16SNX	OR34X1.0X	0.63
1	38X4.0	**F37-616-38X4.0TFBCF**	25.0	10.0	IN16-38X4.0TFBCF	BS16SNX	OR30X1.0X	0.63
1	38X5.0	**F37-616-38X5.0TFBCF**	25.0	8.0	IN16-38X5.0TFBCF	BS16SNX	OR28X1.0X	0.62
1 1/4	30X3.0	**F37-620-30X3.0TFBCF****	21.5	8.5	IN20-30X3.0TFBCF	BS20SNX	OR25X1.0X	1.03
1 1/4	30X4.0	**F37-620-30X4.0TFBCF****	19.5	8.5	IN20-30X4.0TFBCF	BS20SNX	OR22X1.0X	1.04
1 1/4	38X3.0	**F37-620-38X3.0TFBCF****	29.5	9.0	IN20-38X3.0TFBCF	BS20SNX	OR34X1.0X	1.02
1 1/4	38X4.0	**F37-620-38X4.0TFBCF****	27.0	10.0	IN20-38X4.0TFBCF	BS20SNX	OR30X1.0X	1.03
1 1/4	38X5.0	**F37-620-38X5.0TFBCF****	25.5	8.0	IN20-38X5.0TFBCF	BS20SNX	OR28X1.0X	1.02
1 1/4	42X3.0	**F37-620-42X3.0TFBCF****	31.5	10.0	IN20-42X3.0TFBCF	BS20SNX	OR37.82X1.78X	1.03
1 1/4	42X4.0	**F37-620-42X4.0TFBCF****	31.5	10.0	IN20-42X4.0TFBCF	BS20SNX	OR34X1.0X	1.02
1 1/2	38X3.0	**F37-624-38X3.0TFBCF**	27.5	9.0	IN24-38X3.0TFBCF	BS24SNX	OR34X1.0X	1.11
1 1/2	38X4.0	**F37-624-38X4.0TFBCF**	27.5	10.0	IN24-38X4.0TFBCF	BS24SNX	OR30X1.0X	1.73
1 1/2	38X5.0	**F37-624-38X5.0TFBCF**	25.0	8.0	IN24-38X5.0TFBCF	BS24SNX	OR28X1.0X	1.73
1 1/2	42X3.0	**F37-624-42X3.0TFBCF**	35.0	10.0	IN24-42X3.0TFBCF	BS24SNX	OR37.82X1.78X	1.74
1 1/2	42X4.0	**F37-624-42X4.0TFBCF**	31.5	10.0	IN24-42X4.0TFBCF	BS24SNX	OR34X1.0X	1.73
1 1/2	50X3.0	**F37-624-50X3.0TFBCF**	36.0	11.0	IN24-50X3.0TFBCF	BS24SNX	OR44.17X1.78X	1.73
1 1/2	50X5.0	**F37-624-50X5.0TFBCF**	36.0	10.0	IN24-50X5.0TFBCF	BS24SNX	OR41X1.78X	1.73
1 1/2	50X6.0	**F37-624-50X6.0TFBCF**	35.0	10.0	IN24-50X6.0TFBCF	BS24SNX	OR41X1.78X	1.73
2	50X3.0	**F37-632-50X3.0TFBCF**	41.5	11.0	IN32-50X3.0TFBCF	BS32SNX	OR44.17X1.78X	2.66
2	50X5.0	**F37-632-50X5.0TFBCF**	37.5	10.0	IN32-50X5.0TFBCF	BS32SNX	OR41X1.78X	2.68
2	50X6.0	**F37-632-50X6.0TFBCF**	35.0	10.0	IN32-50X6.0TFBCF	BS32SNX	OR41X1.78X	2.71
2	60X3.0	**F37-632-60X3.0TFBCF**	46.0	12.0	IN32-60X3.0TFBCF	BS32SNX	OR53.7X1.78X	2.71
2	60X5.0	**F37-632-60X5.0TFBCF**	46.0	11.0	IN32-60X5.0TFBCF	BS32SNX	OR50.52X1.78X	2.68
2	60X6.0	**F37-632-60X6.0TFBCF**	45.5	11.0	IN32-60X6.0TFBCF	BS32SNX	OR47.37X1.78X	2.67

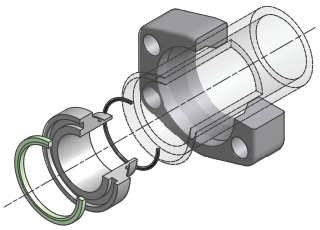
**Flanges for M12 bolts also available (F37-620H12-...TFBCF).
Other sizes on request. *Incl. adapter sleeve or jump size flange if necessary.
Please change suffixes according to material/surface required

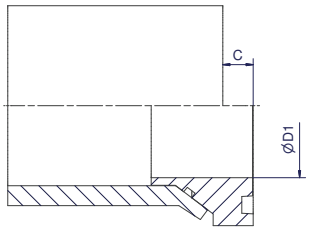
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-624-50X5.0TFBCF
Stainless steel	SS	F37-624-50X5.0TFBSS

Parflange® F37 – SAE 6000/ISO 6162-2

TFV – Flare flange connection

Tube to port connection, F37 seal





Size		Flange* incl. Insert + F37 Seal + O-Ring Order code	D1	C	Insert incl. F37 Seal + O-Ring Order code	F37 Seal Order code	O-Ring Order code	Weight (Steel) kg/1 kit
Inch	Tube							
1/2	16X2.0	**F37-608-16X2.0TFVCF**	9.5	8.0	IN08-16X2.0TFVCF	F37S08X	OR12X1.0X	0.24
1/2	18X2.0	**F37-608-18X2.0TFVCF**	11.5	8.0	IN08-18X2.0TFVCF	F37S08X	OR14X1.0X	0.24
1/2	20X2.0	**F37-608-20X2.0TFVCF**	13.5	8.0	IN08-20X2.0TFVCF	F37S08X	OR16X1.0X	0.24
1/2	20X2.5	**F37-608-20X2.5TFVCF**	13.5	8.0	IN08-20X2.5TFVCF	F37S08X	OR16X1.0X	0.24
1/2	25X2.5	**F37-608-25X2.5TFVCF**	13.5	10.0	IN08-25X2.5TFVCF	F37S08X	OR20X1.0X	0.25
1/2	25X3.0	**F37-608-25X3.0TFVCF**	13.0	8.0	IN08-25X3.0TFVCF	F37S08X	OR20X1.0X	0.24
3/4	20X2.0	**F37-612-20X2.0TFVCF**	13.5	8.0	IN12-20X2.0TFVCF	F37S12X	OR16X1.0X	0.41
3/4	20X2.5	**F37-612-20X2.5TFVCF**	12.5	8.0	IN12-20X2.5TFVCF	F37S12X	OR16X1.0X	0.41
3/4	25X2.5	**F37-612-25X2.5TFVCF**	17.5	10.0	IN12-25X2.5TFVCF	F37S12X	OR20X1.0X	0.41
3/4	25X3.0	**F37-612-25X3.0TFVCF**	16.5	8.0	IN12-25X3.0TFVCF	F37S12X	OR20X1.0X	0.42
3/4	30X3.0	**F37-612-30X3.0TFVCF**	19.0	8.5	IN12-30X3.0TFVCF	F37S12X	OR25X1.0X	0.42
3/4	30X4.0	**F37-612-30X4.0TFVCF**	19.5	8.5	IN12-30X4.0TFVCF	F37S12X	OR22X1.0X	0.42
1	25X2.5	**F37-616-25X2.5TFVCF**	17.5	10.0	IN16-25X2.5TFVCF	F37S16X	OR20X1.0X	0.61
1	25X3.0	**F37-616-25X3.0TFVCF**	16.5	8.0	IN16-25X3.0TFVCF	F37S16X	OR20X1.0X	0.62
1	30X3.0	**F37-616-30X3.0TFVCF**	21.5	8.5	IN16-30X3.0TFVCF	F37S16X	OR25X1.0X	0.64
1	30X4.0	**F37-616-30X4.0TFVCF**	19.5	8.5	IN16-30X4.0TFVCF	F37S16X	OR22X1.0X	0.62
1	38X2.5	**F37-616-38X2.5TFVCF**	25.0	9.5	IN16-38X2.5TFVCF	F37S16X	OR34X1.0X	0.64
1	38X3.0	**F37-616-38X3.0TFVCF**	25.0	9.0	IN16-38X3.0TFVCF	F37S16X	OR34X1.0X	0.63
1	38X4.0	**F37-616-38X4.0TFVCF**	25.0	10.0	IN16-38X4.0TFVCF	F37S16X	OR30X1.0X	0.63
1	38X5.0	**F37-616-38X5.0TFVCF**	25.0	8.0	IN16-38X5.0TFVCF	F37S16X	OR28X1.0X	0.62
1 1/4	30X3.0	**F37-620-30X3.0TFVCF****	21.5	8.5	IN20-30X3.0TFVCF	F37S20X	OR25X1.0X	1.03
1 1/4	30X4.0	**F37-620-30X4.0TFVCF****	19.5	8.5	IN20-30X4.0TFVCF	F37S20X	OR22X1.0X	1.04
1 1/4	38X3.0	**F37-620-38X3.0TFVCF****	29.5	9.0	IN20-38X3.0TFVCF	F37S20X	OR34X1.0X	1.02
1 1/4	38X4.0	**F37-620-38X4.0TFVCF****	27.0	10.0	IN20-38X4.0TFVCF	F37S20X	OR30X1.0X	1.03
1 1/4	38X5.0	**F37-620-38X5.0TFVCF****	25.5	8.0	IN20-38X5.0TFVCF	F37S20X	OR28X1.0X	1.02
1 1/4	42X3.0	**F37-620-42X3.0TFVCF****	31.5	10.0	IN20-42X3.0TFVCF	F37S20X	OR37.82X1.78X	1.03
1 1/4	42X4.0	**F37-620-42X4.0TFVCF****	31.5	10.0	IN20-42X4.0TFVCF	F37S20X	OR34X1.0X	1.02
1 1/2	38X3.0	**F37-624-38X3.0TFVCF**	27.5	9.0	IN24-38X3.0TFVCF	F37S24X	OR34X1.0X	1.73
1 1/2	38X4.0	**F37-624-38X4.0TFVCF**	27.5	10.0	IN24-38X4.0TFVCF	F37S24X	OR30X1.0X	1.73
1 1/2	38X5.0	**F37-624-38X5.0TFVCF**	25.0	8.0	IN24-38X5.0TFVCF	F37S24X	OR28X1.0X	1.73
1 1/2	42X3.0	**F37-624-42X3.0TFVCF**	33.5	10.0	IN24-42X3.0TFVCF	F37S24X	OR37.82X1.78X	1.73
1 1/2	42X4.0	**F37-624-42X4.0TFVCF**	31.5	10.0	IN24-42X4.0TFVCF	F37S24X	OR34X1.0X	1.73
1 1/2	50X3.0	**F37-624-50X3.0TFVCF**	36.0	11.0	IN24-50X3.0TFVCF	F37S24X	OR44.17X1.78X	1.73
1 1/2	50X5.0	**F37-624-50X5.0TFVCF**	36.0	10.0	IN24-50X5.0TFVCF	F37S24X	OR41X1.78X	1.73
1 1/2	50X6.0	**F37-624-50X6.0TFVCF**	35.0	10.0	IN24-50X6.0TFVCF	F37S24X	OR41X1.78X	1.73
2	50X3.0	**F37-632-50X3.0TFVCF**	41.5	11.0	IN32-50X3.0TFVCF	F37S32X	OR44.17X1.78X	2.66
2	50X5.0	**F37-632-50X5.0TFVCF**	37.5	10.0	IN32-50X5.0TFVCF	F37S32X	OR41X1.78X	2.68
2	50X6.0	**F37-632-50X6.0TFVCF**	35.0	10.0	IN32-50X6.0TFVCF	F37S32X	OR41X1.78X	2.71
2	60X3.0	**F37-632-60X3.0TFVCF**	46.0	12.0	IN32-60X3.0TFVCF	F37S32X	OR53.7X1.78X	2.71
2	60X5.0	**F37-632-60X5.0TFVCF**	46.0	11.0	IN32-60X5.0TFVCF	F37S32X	OR50.52X1.78X	2.68
2	60X6.0	**F37-632-60X6.0TFVCF**	45.5	11.0	IN32-60X6.0TFVCF	F37S32X	OR47.37X1.78X	2.67

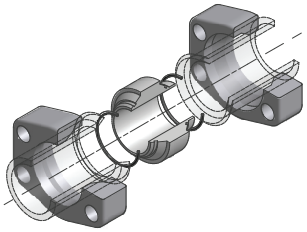
**Flanges for M12 bolts also available (F37-620H12-...TFVCF).
Other sizes on request. *Incl. adapter sleeve or jump size flange if necessary.

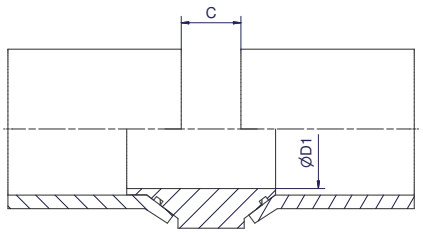
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-624-50X5.0TFVCF
Stainless steel	SS	F37-624-50X5.0TFVSS

TT – Flare flange connection

Tube to tube connection





Size		2 x Flanges* incl. Insert + 2 x O-Ring Order code	D1	C	Insert incl. 2 x O-Ring Order code	O-Ring Order code	Weight (Steel) kg/1 kit
Inch	Tube						
1/2	16X2.0	**F37-608-16X2.0TTCF**	9.5	16	IN08-16X2.0TTCF	OR12X1.0X	0.28
1/2	18X2.0	**F37-608-18X2.0TTCF**	11.5	16	IN08-18X2.0TTCF	OR14X1.0X	0.29
1/2	20X2.0	**F37-608-20X2.0TTCF**	13.5	16	IN08-20X2.0TTCF	OR16X1.0X	0.29
1/2	20X2.5	**F37-608-20X2.5TTCF**	13.5	16	IN08-20X2.5TTCF	OR16X1.0X	0.29
1/2	25X2.5	**F37-608-25X2.5TTCF**	13.5	20	IN08-25X2.5TTCF	OR20X1.0X	0.30
1/2	25X3.0	**F37-608-25X3.0TTCF**	13.5	16	IN08-25X3.0TTCF	OR20X1.0X	0.29
3/4	20X2.0	**F37-612-20X2.0TTCF**	13.5	16	IN12-20X2.0TTCF	OR16X1.0X	0.48
3/4	20X2.5	**F37-612-20X2.5TTCF**	12.5	16	IN12-20X2.5TTCF	OR16X1.0X	0.48
3/4	25X2.5	**F37-612-25X2.5TTCF**	17.5	20	IN12-25X2.5TTCF	OR20X1.0X	0.49
3/4	25X3.0	**F37-612-25X3.0TTCF**	16.5	16	IN12-25X3.0TTCF	OR20X1.0X	0.49
3/4	30X3.0	**F37-612-30X3.0TTCF**	19.0	17	IN12-30X3.0TTCF	OR25X1.0X	0.50
3/4	30X4.0	**F37-612-30X4.0TTCF**	19.5	17	IN12-30X4.0TTCF	OR22X1.0X	0.50
1	25X2.5	**F37-616-25X2.5TTCF**	17.5	20	IN16-25X2.5TTCF	OR20X1.0X	0.72
1	25X3.0	**F37-616-25X3.0TTCF**	16.5	16	IN16-25X3.0TTCF	OR20X1.0X	0.72
1	30X3.0	**F37-616-30X3.0TTCF**	21.5	17	IN16-30X3.0TTCF	OR25X1.0X	0.71
1	30X4.0	**F37-616-30X4.0TTCF**	19.5	17	IN16-30X4.0TTCF	OR22X1.0X	0.72
1	38X2.5	**F37-616-38X2.5TTCF**	25.0	19	IN16-38X2.5TTCF	OR34X1.0X	0.77
1	38X3.0	**F37-616-38X3.0TTCF**	25.0	18	IN16-38X3.0TTCF	OR34X1.0X	0.75
1	38X4.0	**F37-616-38X4.0TTCF**	25.0	20	IN16-38X4.0TTCF	OR30X1.0X	0.73
1	38X5.0	**F37-616-38X5.0TTCF**	25.0	16	IN16-38X5.0TTCF	OR28X1.0X	0.71
1 1/4	30X3.0	**F37-620-30X3.0TTCF****	21.5	17	IN20-30X3.0TTCF	OR25X1.0X	1.16
1 1/4	30X4.0	**F37-620-30X4.0TTCF****	19.5	17	IN20-30X4.0TTCF	OR22X1.0X	1.19
1 1/4	38X3.0	**F37-620-38X3.0TTCF****	25.0	18	IN20-38X3.0TTCF	OR34X1.0X	1.14
1 1/4	38X4.0	**F37-620-38X4.0TTCF****	27.0	20	IN20-38X4.0TTCF	OR30X1.0X	1.15
1 1/4	38X5.0	**F37-620-38X5.0TTCF****	25.5	16	IN20-38X5.0TTCF	OR28X1.0X	1.13
1 1/4	42X3.0	**F37-620-42X3.0TTCF****	31.5	20	IN20-42X3.0TTCF	OR37.82X1.78X	1.14
1 1/4	42X4.0	**F37-620-42X4.0TTCF****	31.5	20	IN20-42X4.0TTCF	OR34X1.0X	1.13
1 1/2	38X3.0	**F37-624-38X3.0TTCF**	27.5	18	IN24-38X3.0TTCF	OR34X1.0X	1.79
1 1/2	38X4.0	**F37-624-38X4.0TTCF**	27.5	20	IN24-38X4.0TTCF	OR30X1.0X	1.79
1 1/2	38X5.0	**F37-624-38X5.0TTCF**	25.0	16	IN24-38X5.0TTCF	OR28X1.0X	1.79
1 1/2	42X3.0	**F37-624-42X3.0TTCF**	33.5	20	IN24-42X3.0TTCF	OR37.82X1.78X	1.84
1 1/2	42X4.0	**F37-624-42X4.0TTCF**	31.5	20	IN24-42X4.0TTCF	OR34X1.0X	1.94
1 1/2	50X3.0	**F37-624-50X3.0TTCF**	36.0	22	IN24-50X3.0TTCF	OR44.17X1.78X	1.96
1 1/2	50X5.0	**F37-624-50X5.0TTCF**	36.0	20	IN24-50X5.0TTCF	OR41X1.78X	2.07
1 1/2	50X6.0	**F37-624-50X6.0TTCF**	35.0	20	IN24-50X6.0TTCF	OR41X1.78X	1.96
2	50X3.0	**F37-632-50X3.0TTCF**	41.5	22	IN32-50X3.0TTCF	OR44.17X1.78X	2.86
2	50X5.0	**F37-632-50X5.0TTCF**	37.5	20	IN32-50X5.0TTCF	OR41X1.78X	2.97
2	50X6.0	**F37-632-50X6.0TTCF**	35.0	20	IN32-50X6.0TTCF	OR41X1.78X	3.02
2	60X3.0	**F37-632-60X3.0TTCF**	46.0	24	IN32-60X3.0TTCF	OR53.7X1.78X	2.99
2	60X5.0	**F37-632-60X5.0TTCF**	46.0	22	IN32-60X5.0TTCF	OR50.52X1.78X	2.92
2	60X6.0	**F37-632-60X6.0TTCF**	45.5	22	IN32-60X6.0TTCF	OR47.37X1.78X	2.91

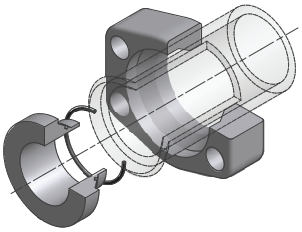
**Flanges for M12 bolts also available (F37-620H12-...TTCF).
Other sizes on request. *Incl. adapter sleeve or jump size flange if necessary.
Please change suffixes according to material/surface required

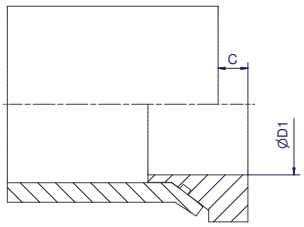
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-624-50X5.0TTCF
Stainless steel	SS	F37-624-50X5.0TTSS

Parflange® F37 – SAE 6000/ISO 6162-2

TF – Flare flange connection

Tube to port connection, flat face





Size		Flange* incl. Insert + O-Ring Order code	D1	C	Insert incl. O-Ring Order code	O-Ring Order code	Weight (Steel) kg/1 kit
Inch	Tube						
1/2	16X2.0	**F37-608-16X2.0TFCF**	9.5	8.0	IN08-16X2.0TFCF	OR12X1.0X	0.24
1/2	18X2.0	**F37-608-18X2.0TFCF**	11.5	8.0	IN08-18X2.0TFCF	OR14X1.0X	0.24
1/2	20X2.0	**F37-608-20X2.0TFCF**	13.5	8.0	IN08-20X2.0TFCF	OR16X1.0X	0.25
1/2	20X2.5	**F37-608-20X2.5TFCF**	13.5	8.0	IN08-20X2.5TFCF	OR16X1.0X	0.25
1/2	25X2.5	**F37-608-25X2.5TFCF**	13.5	10.0	IN08-25X2.5TFCF	OR20X1.0X	0.25
1/2	25X3.0	**F37-608-25X3.0TFCF**	13.0	8.0	IN08-25X3.0TFCF	OR20X1.0X	0.24
3/4	20X2.0	**F37-612-20X2.0TFCF**	13.5	8.0	IN12-20X2.0TFCF	OR16X1.0X	0.41
3/4	20X2.5	**F37-612-20X2.5TFCF**	12.5	8.0	IN12-20X2.5TFCF	OR16X1.0X	0.41
3/4	25X2.5	**F37-612-25X2.5TFCF**	17.5	10.0	IN12-25X2.5TFCF	OR20X1.0X	0.41
3/4	25X3.0	**F37-612-25X3.0TFCF**	16.5	8.0	IN12-25X3.0TFCF	OR20X1.0X	0.42
3/4	30X3.0	**F37-612-30X3.0TFCF**	19.0	8.5	IN12-30X3.0TFCF	OR25X1.0X	0.42
3/4	30X4.0	**F37-612-30X4.0TFCF**	19.5	8.5	IN12-30X4.0TFCF	OR22X1.0X	0.42
1	25X2.5	**F37-616-25X2.5TFCF**	17.5	10.0	IN16-25X2.5TFCF	OR20X1.0X	0.61
1	25X3.0	**F37-616-25X3.0TFCF**	16.5	8.0	IN16-25X3.0TFCF	OR20X1.0X	0.62
1	30X3.0	**F37-616-30X3.0TFCF**	21.5	8.5	IN16-30X3.0TFCF	OR25X1.0X	0.64
1	30X4.0	**F37-616-30X4.0TFCF**	19.5	8.5	IN16-30X4.0TFCF	OR22X1.0X	0.62
1	38X2.5	**F37-616-38X2.5TFCF**	25.0	9.5	IN16-38X2.5TFCF	OR34X1.0X	0.64
1	38X3.0	**F37-616-38X3.0TFCF**	25.0	9.0	IN16-38X3.0TFCF	OR34X1.0X	0.63
1	38X4.0	**F37-616-38X4.0TFCF**	25.0	10.0	IN16-38X4.0TFCF	OR30X1.0X	0.63
1	38X5.0	**F37-616-38X5.0TFCF**	25.0	8.0	IN16-38X5.0TFCF	OR28X1.0X	0.62
1 1/4	30X3.0	**F37-620-30X3.0TFCF****	21.5	8.5	IN20-30X3.0TFCF	OR25X1.0X	1.03
1 1/4	30X4.0	**F37-620-30X4.0TFCF****	19.5	8.5	IN20-30X4.0TFCF	OR22X1.0X	1.05
1 1/4	38X3.0	**F37-620-38X3.0TFCF****	29.0	9.0	IN20-38X3.0TFCF	OR34X1.0X	1.02
1 1/4	38X4.0	**F37-620-38X4.0TFCF****	27.0	10.0	IN20-38X4.0TFCF	OR30X1.0X	1.03
1 1/4	38X5.0	**F37-620-38X5.0TFCF****	25.5	8.0	IN20-38X5.0TFCF	OR28X1.0X	1.02
1 1/4	42X3.0	**F37-620-42X3.0TFCF****	31.5	10.0	IN20-42X3.0TFCF	OR37.82X1.78X	1.03
1 1/4	42X4.0	**F37-620-42X4.0TFCF****	31.5	10.0	IN20-42X4.0TFCF	OR34X1.0X	1.02
1 1/2	38X3.0	**F37-624-38X3.0TFCF**	27.5	9.0	IN24-38X3.0TFCF	OR34X1.0X	1.73
1 1/2	38X4.0	**F37-624-38X4.0TFCF**	27.5	10.0	IN24-38X4.0TFCF	OR30X1.0X	1.73
1 1/2	38X5.0	**F37-624-38X5.0TFCF**	25.0	8.0	IN24-38X5.0TFCF	OR28X1.0X	1.73
1 1/2	42X3.0	**F37-624-42X3.0TFCF**	33.5	10.0	IN24-42X3.0TFCF	OR37.82X1.78X	1.73
1 1/2	42X4.0	**F37-624-42X4.0TFCF**	31.5	10.0	IN24-42X4.0TFCF	OR34X1.0X	1.73
1 1/2	50X3.0	**F37-624-50X3.0TFCF**	36.0	11.0	IN24-50X3.0TFCF	OR44.17X1.78X	1.73
1 1/2	50X5.0	**F37-624-50X5.0TFCF**	36.0	10.0	IN24-50X5.0TFCF	OR41X1.78X	1.73
1 1/2	50X6.0	**F37-624-50X6.0TFCF**	35.0	10.0	IN24-50X6.0TFCF	OR41X1.78X	1.73
2	50X3.0	**F37-632-50X3.0TFCF**	41.5	11.0	IN32-50X3.0TFCF	OR44.17X1.78X	2.66
2	50X5.0	**F37-632-50X5.0TFCF**	37.5	10.0	IN32-50X5.0TFCF	OR41X1.78X	2.68
2	50X6.0	**F37-632-50X6.0TFCF**	35.0	10.0	IN32-50X6.0TFCF	OR41X1.78X	2.71
2	60X3.0	**F37-632-60X3.0TFCF**	46.0	12.0	IN32-60X3.0TFCF	OR53.7X1.78X	2.71
2	60X5.0	**F37-632-60X5.0TFCF**	46.0	11.0	IN32-60X5.0TFCF	OR50.52X1.78X	2.68
2	60X6.0	**F37-632-60X6.0TFCF**	45.5	11.0	IN32-60X6.0TFCF	OR47.37X1.78X	2.67

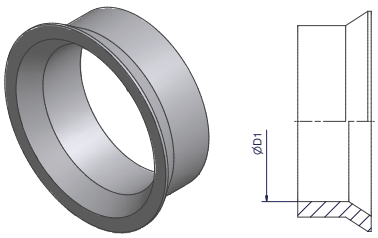
**Flanges for M12 bolts also available (F37-620H12-...TFCF).
Other sizes on request. *Incl. adapter sleeve or jump size flange if necessary.
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-624-50X5.0TFCF
Stainless steel	SS	F37-624-50X5.0TFSS

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SL – Sleeve

SAE 6000/ISO 6162-2



Size Inch	Tube OD	Order code	D1	Weight body (Steel) kg/1 piece
1/2	16	**SL08-25-16-CFX**	16.3	0.04
1/2	18	**SL08-25-18-CFX**	18.3	0.04
1/2	20	**SL08-25-20-CFX**	20.3	0.04
3/4	20	**SL12-30-20-CFX**	20.3	0.04
3/4	25	**SL12-30-25-CFX***	25.2	0.04
1	25	**SL16-38-25-CFX***	25.2	0.04
1	30	**SL16-38-30-CFX***	30.2	0.04
1 1/4	30	**SL20-42-30-CFX**	30.2	0.04
1 1/4	38	**SL20-42-38-CFX***	38.3	0.04
1 1/2	38	**SL24-50-38-CFX***	38.3	0.14
1 1/2	42	**SL24-50-42-CFX***	42.3	0.10
2	50	**SL32-60-50-CFX***	50.3	0.16

*By use of jump size flanges, no adapter sleeves necessary. For jump size flanges see page 109.

Please change suffixes according to material/surface required

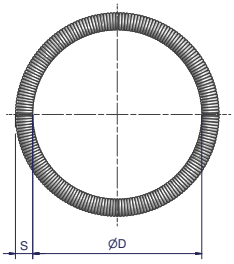
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	SL24-50-42-CFX
Stainless steel	SS	SL24-50-42-SSX

R – Retaining ring

SAE 6000/ISO 6162-2

Size Inch	Tube	Order code	D	S
1/2	26X6.0	**R08X**	22.3	4.0
3/4	36X8.0	**R12X**	32.3	4.0
1	39X7.5	**R16X**	34.3	5.0
1 1/4	46X8.0	**R20X**	41.3	5.0
1 1/2	56X8.5	**R24X**	51.3	5.0
2	66X8.5	**R32X**	61.3	5.0
2 1/2	80X10.0	**R40X**	75.3	5.0
3	97X12.0	**R48X**	91.3	6.0

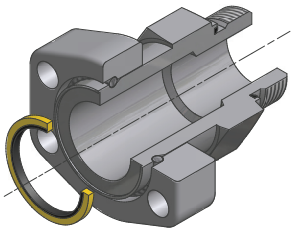
Material: Stainless steel

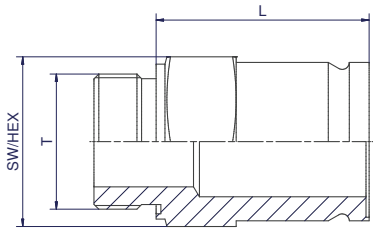


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MTF-R – Male thread adapter, BSPP

SAE 6000/ISO 6162-2





Size Inch	Tube	Complete part Order code	Body incl. ED Seal Order code	L	T (BSPP)	SW/ HEX	Weight body (Steel) kg/1 piece
1/2	26X6.0	**R-608MTFRCF**	MTF08ROMDCF	61.0	G 1/2 A	27	0.21
3/4	36X8.0	**R-612MTFRCF**	MTF12ROMDCF	61.0	G 3/4 A	36	0.32
3/4	36X8.0	**R-612MTFR1/2CF**	MTF12R1/2OMDCF	61.0	G 1/2 A	36	0.32
1	39X7.5	**R-616MTFRCF**	MTF16ROMDCF	69.0	G 1 A	41	0.50
1	39X7.5	**R-616MTFR3/4CF**	MTF16R3/4OMDCF	69.0	G 3/4 A	41	0.50
1 1/4	46X8.0	**R-620MTFRCF**	MTF20ROMDCF	80.0	G 1 1/4 A	50	0.75
1 1/4	46X8.0	**R-620MTFR1CF**	MTF20R1OMDCF	80.0	G 1 A	50	0.73
1 1/2	56X8.5	**R-624MTFRCF**	MTF24ROMDCF	93.0	G 1 1/2 A	60	1.20
1 1/2	56X8.5	**R-624MTFR11/4CF**	MTF24R11/4OMDCF	93.0	G 1 1/4 A	60	1.17
2	66X8.5	**R-632MTFRCF**	MTF32ROMDCF	104.0	G 2 A	75	1.87
2	66X8.5	**R-632MTFR11/2CF**	MTF32R11/2OMDCF	103.5	G 1 1/2 A	75	1.80
2 1/2	80X10.0	**R-640MTFRCF**	MTF40ROMDCF	134.0	G 2 1/2 A	85	3.50
2 1/2	80X10.0	**R-640MTFR2CF**	MTF40R2OMDCF	136.0	G 2 A	85	3.50
3	97X12.0	**R-648MTFRCF**	MTF48ROMDCF	145.0	G 3 A	95	5.00

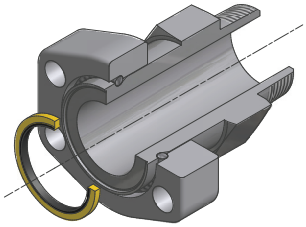
Other sizes on request.

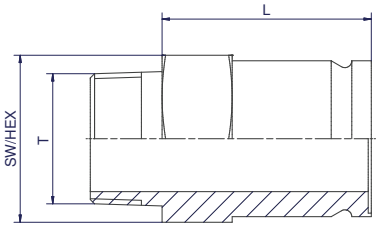
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-620MTFROMDCF
Stainless steel	SS	R-620MTFROMDSS

MTF-N – Male thread adapter, NPT

SAE 6000/ISO 6162-2





Size Inch	Tube	Complete part Order code	Body Order code	L	T (NPT)	SW/ HEX	Weight body (Steel) kg/1 piece
1/2	26X6.0	**R-608MTFNCF**	MTF08NCFX	72.6	1/2-14	27	0.26
3/4	36X8.0	**R-612MTFNCF**	MTF12NCFX	72.6	3/4-14	36	0.48
1	39X7.5	**R-616MTFNCF**	MTF16NCFX	67.7	1-11.5	41	0.55
1 1/4	46X8.0	**R-620MTFNCF**	MTF20NCFX	75.0	1 1/4-11.5	50	0.70
1 1/2	56X8.5	**R-624MTFNCF**	MTF24NCFX	93.2	1 1/2-11.5	60	1.80
2	66X8.5	**R-632MTFNCF**	MTF32NCFX	100.4	2-11.5	75	2.40
2 1/2	80X10.0	**R-640MTFNCF**	MTF40NCFX	130.0	2 1/2-8	85	3.40
3	97X12.0	**R-648MTFNCF**	MTF48NCFX	141.2	3-8	95	4.90

Other sizes on request.

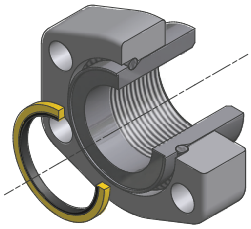
Please change suffixes according to material/surface required

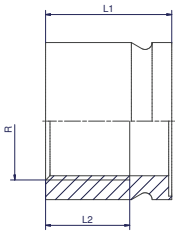
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-620MT0NCF
Stainless steel	SS	R-620MTFNSS

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FTF-R – Female thread adapter, BSPP

SAE 6000/ISO 6162-2





Size Inch	Tube	Complete part Order code	Body Order code	L1	L2	R (BSPP)	Weight body (Steel) kg/1 piece
1/2	26X6.0	**R-608FTFRCF**	FTF08RCFX	35	25	G 1/4	0.11
3/4	36X8.0	**R-612FTFRCF**	FTF12RCFX	40	25	G 1/2	0.22
1	39X7.5	**R-616FTFRCF**	FTF16RCFX	40	25	G 3/4	0.20
1 1/4	46X8.0	**R-620FTFRCF**	FTF20RCFX	42	30	G 1	0.30
1 1/2	56X8.5	**R-624FTFRCF**	FTF24RCFX	45	30	G 1 1/4	0.45
2	66X8.5	**R-632FTFRCF**	FTF32RCFX	55	40	G 1 1/2	0.75
2 1/2	80X10.0	**R-640FTFRCF**	FTF40RCFX	80	40	G 2	1.52
3	97X12.0	**R-648FTFRCF**	FTF48RCFX	85	50	G 2 1/2	2.11

Other sizes on request.

Please change suffixes according to material/surface required

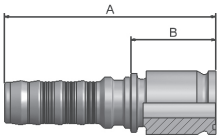
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-620FTFRCF
Stainless steel	SS	R-620FTFRSS

Retaining ring hose couplings

SAE 6000/ISO 6162-2

X5 Flange - Straight

Full flange system for ISO 6162-1 or ISO 6162-2

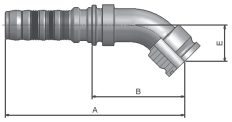




Hose I.D.				Flange	A	B	
DN	Inch	Size	mm	Inch	mm	mm	Order code
31	1 1/4	-20	31.8	1 1/4	152.3	61.3	**KX5V6-20-20**
38	1 1/2	-24	38.1	1 1/2	159.3	63.3	**KX5V6-24-24**
51	2	-32	50.8	2	188.0	78.0	**KX5V6-32-32**
63	2 1/2	-40	63.5	2 1/2	233.0	83.0	**KX5V6-40-40**
63	2 1/2	-40	63.5	3	233.0	98.0	**KX5V6-48-40**

X7 Flange - 45° Elbow

Full flange system for ISO 6162-1 or ISO 6162-2

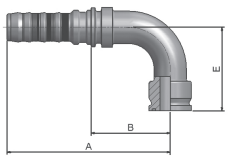




Hose I.D.				Flange	A	B	E	
DN	Inch	Size	mm	Inch	mm	mm	mm	Order code
31	1 1/4	-20	31.8	1 1/4	190.0	99.0	39.0	**KX7V6-20-20**
38	1 1/2	-24	38.1	1 1/2	221.0	125.0	44.0	**KX7V6-24-24**
51	2	-32	50.8	2	275.0	164.5	57.0	**KX7V6-32-32**

X9 Flange - 90° Elbow

Full flange system for ISO 6162-1 or ISO 6162-2





Hose I.D.				Flange	A	B	E	
DN	Inch	Size	mm	Inch	mm	mm	mm	Order code
31	1 1/4	-20	31.8	1 1/4	176.8	85.5	90.0	**KX9V6-20-20**
38	1 1/2	-24	38.1	1 1/2	209.3	113.0	104.0	**KX9V6-24-24**
51	2	-32	50.8	2	268.0	157.0	138.0	**KX9V6-32-32**

Details about the associated hose types can be found in the catalog of HPDE C4400/UK.

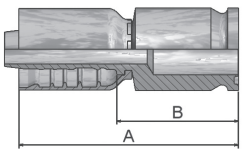
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Retaining ring hose couplings

SAE 6000/ISO 6162-2

X5 Flange - Straight

Full flange system for ISO 6162-1 or ISO 6162-2

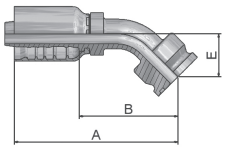


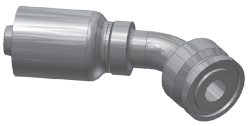


Hose I.D.				Flange	A	B	
DN	Inch	Size	mm	Inch	mm	mm	Order code
19	3/4	-12	19.1	3/4	103.0	57.0	**1X577-12-12**
19	3/4	-12	19.1	1	103.0	57.0	**1X577-16-12**
25	1	-16	25.4	1	113.0	59.0	**1X577-16-16**
25	1	-16	25.4	1 1/4	113.0	59.0	**1X577-20-16**
25	1	-16	25.4	1 1/2	113.0	59.0	**1X577-24-16**
31	1 1/4	-20	31.8	1 1/4	124.0	57.0	**1X577-20-20**
38	1 1/2	-24	38.1	1 1/2	129.0	62.0	**1X577-24-24**
51	2	-32	50.8	2	154.0	77.0	**1X57732-32**

X7 Flange - 45° Elbow

Full flange system for ISO 6162-1 or ISO 6162-2





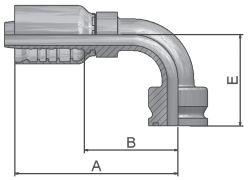
Hose I.D.				Flange	A	B	E	
DN	Inch	Size	mm	Inch	mm	mm	mm	Order code
19	3/4	-12	19.1	3/4	119.0	73.0	29.0	**1X777-12-12**
19	3/4	-12	19.1	1	118.0	72.0	29.0	**1X777-16-12**
25	1	-16	25.4	1	141.0	87.0	32.0	**1X777-16-16**
25	1	-16	25.4	1 1/4	147.0	93.0	38.0	**1X777-20-16**
31	1 1/4	-20	31.8	1	146.0	82.0	38.0	**1X777-16-20**
31	1 1/4	-20	31.8	1 1/4	159.0	96.0	38.0	**1X777-20-20**
31	1 1/4	-20	31.8	1 1/2	165.0	102.0	44.0	**1X777-24-20**
38	1 1/2	-24	38.1	1 1/2	183.0	116.0	45.0	**1X777-24-24**

Retaining ring hose couplings

SAE 6000/ISO 6162-2

X9 Flange - 90° Elbow

Full flange system for ISO 6162-1 or ISO 6162-2





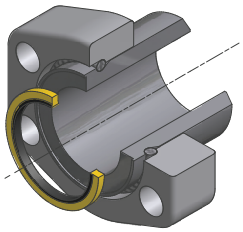
Hose I.D.				Flange	A	B	E	
DN	Inch	Size	mm	Inch	mm	mm	mm	Order code
12	1/2	-8	12.7	1/2	81.0	45.0	43.0	**1X977-8-8**
19	3/4	-12	19.1	3/4	108.0	62.0	61.0	**1X977-12-12**
19	3/4	-12	19.1	1	108.0	62.0	61.0	**1X977-16-12**
25	1	-16	25.4	3/4	110.0	56.0	70.0	**1X977-12-16**
25	1	-16	25.4	1	131.0	77.0	70.0	**1X977-16-16**
25	1	-16	25.4	1 1/4	131.0	77.0	70.0	**1X977-20-16**
31	1 1/4	-20	31.8	1	130.0	67.0	90.0	**1X977-16-20**
31	1 1/4	-20	31.8	1 1/4	148.0	84.0	90.0	**1X977-20-20**
31	1 1/4	-20	31.8	1 1/2	148.0	84.0	90.0	**1X977-24-20**
38	1 1/2	-24	38.1	1 1/2	170.0	103.0	104.0	**1X977-24-24**
51	2	-32	50.8	2	221.0	144.0	138.0	**1X977-32-32**

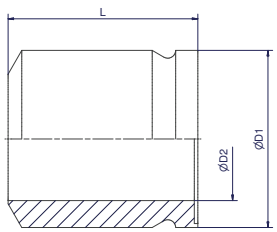
Details about the associated hose types can be found in the catalog of HPDE C4400/UK.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

WA – Weld adapter connection

SAE 6000/ISO 6162-2



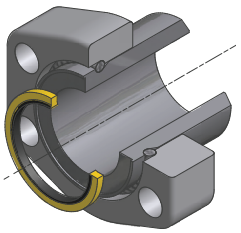


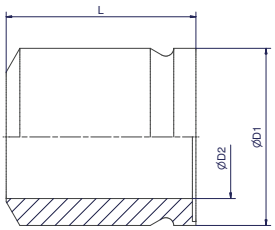
Size Inch	Tube	Complete Part Order code	Retaining Ring	Bonded Seal	Flange Order code	Weld Adapter Body Order code	D1	D2	L	Weight (Steel) kg/1 kit
1/2	12X1.5	**R-608WA-12X1.5S**	R08X	BS08SNX	R-608-CFX	WA08-12X1.5SX	26	14	40	0.29
1/2	16X2.0	**R-608WA-16X2.0S**	R08X	BS08SNX	R-608-CFX	WA08-16X2.0SX	26	14	40	0.30
1/2	18X2.0	**R-608WA-18X2.0S**	R08X	BS08SNX	R-608-CFX	WA08-18X2.0SX	26	14	40	0.30
1/2	20X2.0	**R-608WA-20X2.5S**	R08X	BS08SNX	R-608-CFX	WA08-20X2.5SX	26	14	40	0.30
1/2	21.3X2.1	**R-608WA-21.3X2.1S**	R08X	BS08SNX	R-608-CFX	WA08-21.3X2.1SX	26	14	40	0.30
1/2	21.3X2.8	**R-608WA-21.3X2.8S**	R08X	BS08SNX	R-608-CFX	WA08-21.3X2.8SX	26	14	40	0.30
1/2	21.3X3.7	**R-608WA-21.3X3.7S**	R08X	BS08SNX	R-608-CFX	WA08-21.3X3.7SX	26	14	45	0.31
1/2	21.3X4.8	**R-608WA-21.3X4.8S**	R08X	BS08SNX	R-608-CFX	WA08-21.3X4.8SX	26	14	45	0.32
1/2	21.3X7.5	**R-608WA-21.3X7.5S**	R08X	BS08SNX	R-608-CFX	WA08-21.3X7.5SX	26	14	45	0.32
1/2	25X2.5	**R-608WA-25X2.5S**	R08X	BS08SNX	R-608-CFX	WA08-25X2.5SX	26	14	40	0.29
1/2	26X6.0	**R-608WA-26X6.0S**	R08X	BS08SNX	R-608-CFX	WA08-26X6.0SX	26	14	40	0.31
3/4	20X2.5	**R-612WA-20X2.5S**	R12X	BS12SNX	R-612-CFX	WA12-20X2.5SX	36	20	45	0.41
3/4	25X3.0	**R-612WA-25X3.0S**	R12X	BS12SNX	R-612-CFX	WA12-25X3.0SX	36	20	45	0.41
3/4	26.7X2.1	**R-612WA-26.7X2.1S**	R12X	BS12SNX	R-612-CFX	WA12-26.7X2.1SX	36	20	45	0.40
3/4	26.7X2.8	**R-612WA-26.7X2.8S**	R12X	BS12SNX	R-612-CFX	WA12-26.7X2.8SX	36	20	45	0.41
3/4	26.7X3.9	**R-612WA-26.7X3.9S**	R12X	BS12SNX	R-612-CFX	WA12-26.7X3.9SX	36	20	45	0.41
3/4	26.7X5.6	**R-612WA-26.7X5.6S**	R12X	BS12SNX	R-612-CFX	WA12-26.7X5.6SX	36	20	50	0.44
3/4	26.7X7.8	**R-612WA-26.7X7.8S**	R12X	BS12SNX	R-612-CFX	WA12-26.7X7.8SX	36	20	50	0.45
3/4	30X3.0	**R-612WA-30X3.0S**	R12X	BS12SNX	R-612-CFX	WA12-30X3.0SX	36	20	50	0.41
3/4	30X4.0	**R-612WA-30X4.0S**	R12X	BS12SNX	R-612-CFX	WA12-30X4.0SX	36	20	50	0.42
3/4	30X6.0	**R-612WA-30X6.0S**	R12X	BS12SNX	R-612-CFX	WA12-30X6.0SX	36	20	50	0.44
3/4	36X8.0	**R-612WA-36X8.0S**	R12X	BS12SNX	R-612-CFX	WA12-36X8.0SX	36	20	50	0.46
1	25X3.0	**R-616WA-25X3.0S**	R16X	BS16SNX	R-616-CFX	WA16-25X3.0SX	39	19	60	0.66
1	30X4.0	**R-616WA-30X4.0S**	R16X	BS16SNX	R-616-CFX	WA16-30X4.0SX	39	20	60	0.65
1	33.4X2.8	**R-616WA-33.4X2.8S**	R16X	BS16SNX	R-616-CFX	WA16-33.4X2.8SX	39	24	60	0.61
1	33.4X3.4	**R-616WA-33.4X3.4S**	R16X	BS16SNX	R-616-CFX	WA16-33.4X3.4SX	39	24	60	0.62
1	33.4X4.6	**R-616WA-33.4X4.6S**	R16X	BS16SNX	R-616-CFX	WA16-33.4X4.6SX	39	24	60	0.64
1	33.4X6.5	**R-616WA-33.4X6.5S**	R16X	BS16SNX	R-616-CFX	WA16-33.4X6.5SX	39	20	60	0.70
1	33.4X9.1	**R-616WA-33.4X9.1S**	R16X	BS16SNX	R-616-CFX	WA16-33.4X9.1SX	39	24	60	0.69
1	38X4.0	**R-616WA-38X4.0S**	R16X	BS16SNX	R-616-CFX	WA16-38X4.0SX	39	24	55	0.59
1	38X5.0	**R-616WA-38X5.0S**	R16X	BS16SNX	R-616-CFX	WA16-38X5.0SX	39	24	55	0.61
1	38X7.0	**R-616WA-38X7.0S**	R16X	BS16SNX	R-616-CFX	WA16-38X7.0SX	39	24	60	0.67
1	39X7.5	**R-616WA-39X7.5S**	R16X	BS16SNX	R-616-CFX	WA16-39X7.5SX	39	24	50	0.62
1 1/4	30X4.0	**R-620WA-30X4.0S**	R20X	BS20SNX	R-620-CFX	WA20-30X4.0SX	46	22	70	1.06
1 1/4	38X4.0	**R-620WA-38X4.0S**	R20X	BS20SNX	R-620-CFX	WA20-38X4.0SX	46	30	65	0.91
1 1/4	38X5.0	**R-620WA-38X5.0S**	R20X	BS20SNX	R-620-CFX	WA20-38X5.0SX	46	28	65	0.96
1 1/4	42X3.0	**R-620WA-42X3.0S**	R20X	BS20SNX	R-620-CFX	WA20-42X3.0SX	46	30	65	0.86
1 1/4	42X4.0	**R-620WA-42X4.0S**	R20X	BS20SNX	R-620-CFX	WA20-42X4.0SX	46	30	65	0.89
1 1/4	42X6.0	**R-620WA-42X6.0S**	R20X	BS20SNX	R-620-CFX	WA20-42X6.0SX	46	30	65	0.95
1 1/4	42.2X2.7	**R-620WA-42.2X2.7S**	R20X	BS20SNX	R-620-CFX	WA20-42.2X2.7SX	46	30	65	0.85
1 1/4	42.2X3.6	**R-620WA-42.2X3.6S**	R20X	BS20SNX	R-620-CFX	WA20-42.2X3.6SX	46	30	65	0.88
1 1/4	42.2X4.9	**R-620WA-42.2X4.9S**	R20X	BS20SNX	R-620-CFX	WA20-42.2X4.9SX	46	30	65	0.92
1 1/4	42.2X6.4	**R-620WA-42.2X6.4S**	R20X	BS20SNX	R-620-CFX	WA20-42.2X6.4SX	46	29	65	0.96
1 1/4	42.2X9.7	**R-620WA-42.2X9.7S**	R20X	BS20SNX	R-620-CFX	WA20-42.2X9.7SX	46	23	65	1.08
1 1/4	46X7.0	**R-620WA-46X7.0S**	R20X	BS20SNX	R-620-CFX	WA20-46X7.0SX	46	30	65	0.97
1 1/4	46X8.0	**R-620WA-46X8.0S**	R20X	BS20SNX	R-620-CFX	WA20-46X8.0SX	46	30	55	0.90

See next page

WA – Weld adapter connection continued

SAE 6000/ISO 6162-2





Size Inch	Tube	Complete Part Order code	Retaining Ring	Bonded Seal	Flange Order code	Weld Adapter Body Order code	D1	D2	L	Weight (Steel) kg/1 kit
1 1/2	38X5.0	**R-624WA-38X5.0S**	R24X	BS24SNX	R-624-CFX	WA24-38X5.0SX	56	28	75	1.48
1 1/2	48.3X2.8	**R-624WA-48.3X2.8S**	R24X	BS24SNX	R-624-CFX	WA24-48.3X2.8SX	56	39	70	1.14
1 1/2	48.3X3,7	**R-624WA-48.3X3.7S**	R24X	BS24SNX	R-624-CFX	WA24-48.3X3.7SX	56	39	70	1.18
1 1/2	48.3X5.1	**R-624WA-48.3X5.1S**	R24X	BS24SNX	R-624-CFX	WA24-48.3X5.1SX	56	38	70	1.24
1 1/2	48.3X7.1	**R-624WA-48.3X7.1S**	R24X	BS24SNX	R-624-CFX	WA24-48.3X7.1SX	56	34	70	1.36
1 1/2	48.3X10.2	**R-624WA-48.3X10.2S**	R24X	BS24SNX	R-624-CFX	WA24-48.3X10.2SX	56	30	70	1.32
1 1/2	50X3.0	**R-624WA-50X3.0S**	R24X	BS24SNX	R-624-CFX	WA24-50X3.0SX	56	39	70	1.13
1 1/2	50X5.0	**R-624WA-50X5.0S**	R24X	BS24SNX	R-624-CFX	WA24-50X5.0SX	56	40	70	1.20
1 1/2	50X6.0	**R-624WA-50X6.0S**	R24X	BS24SNX	R-624-CFX	WA24-50X6.0SX	56	38	70	1.26
1 1/2	50x9.0	**R-624WA-50X9.0S**	R24X	BS24SNX	R-624-CFX	WA24-50X9.0SX	56	32	70	1.42
1 1/2	56X8.5	**R-624WA-56X8.5S**	R24X	BS24SNX	R-624-CFX	WA24-56X8.5SX	56	39	60	1.18
2	48.3X5.6	**R-632WA-48.3X5.6S**	R32X	BS32SNX	R-632-CFX	WA32-48.3X5.6SX	66	37	90	2.40
2	50X9.0	**R-632WA-50X9.0S**	R32X	BS32SNX	R-632-CFX	WA32-50X9.0SX	66	32	90	2.61
2	60X3.0	**R-632WA-60X3.0S**	R32X	BS32SNX	R-632-CFX	WA32-60X3.0SX	66	49	90	1.89
2	60X5.0	**R-632WA-60X5.0S**	R32X	BS32SNX	R-632-CFX	WA32-60X5.0SX	66	50	90	1.99
2	60X6.0	**R-632WA-60X6.0S**	R32X	BS32SNX	R-632-CFX	WA32-60X6.0SX	66	48	90	2.10
2	60X8.0	**R-632WA-60X8.0S**	R32X	BS32SNX	R-632-CFX	WA32-60X8.0SX	66	44	90	2.28
2	60x10.0	**R-632WA-60X10.0S**	R32X	BS32SNX	R-632-CFX	WA32-60X10.0SX	66	40	90	2.46
2	60.3X2.8	**R-632WA-60.3X2.8S**	R32X	BS32SNX	R-632-CFX	WA32-60.3X2.8SX	66	49	90	1.87
2	60.3X3.9	**R-632WA-60.3X3.9S**	R32X	BS32SNX	R-632-CFX	WA32-60.3X3.9SX	66	49	90	1.95
2	60.3X5.5	**R-632WA-60.3X5.5S**	R32X	BS32SNX	R-632-CFX	WA32-60.3X5.5SX	66	49	90	2.04
2	60.3X8.7	**R-632WA-60.3X8.7S**	R32X	BS32SNX	R-632-CFX	WA32-60.3X8.7SX	66	43	90	2.34
2	60.3X11.1	**R-632WA-60.3X11.1S**	R32X	BS32SNX	R-632-CFX	WA32-60.3X11.1SX	66	38	90	2.54
2	66X8.5	**R-632WA-66X8.5S**	R32X	BS32SNX	R-632-CFX	WA32-66X8.5SX	66	49	75	1.95
2 1/2	65X8.5	**R-640WA-65X8.5S**	R40X	BS40SNX	R-640-CFX	WA40-65X8.5SX	80	49	105	8.20
2 1/2	73X7.0	**R-640WA-73X7.0S**	R40X	BS40SNX	R-640-CFX	WA40-73X7.0SX	80	59	105	7.69
2 1/2	75X3.0	**R-640WA-75X3.0S**	R40X	BS40SNX	R-640-CFX	WA40-75X3.0SX	80	60	105	7.30
2 1/2	75X5.0	**R-640WA-75X5.0S**	R40X	BS40SNX	R-640-CFX	WA40-75X5.0SX	80	60	105	7.47
2 1/2	76.1X6.3	**R-640WA-76.1X6.3S**	R40X	BS40SNX	R-640-CFX	WA40-76.1X6.3SX	80	60	105	7.55
2 1/2	76.1X12.5	**R-640WA-76.1X12.5S**	R40X	BS40SNX	R-640-CFX	WA40-76.1X12.5SX	80	51	105	8.27
2 1/2	80X10.0	**R-640WA-80X10.0S**	R40X	BS40SNX	R-640-CFX	WA40-80X10.0SX	80	60	90	7.50
3	76.1X12.5	**R-648WA-76.1X12.5S**	R48X	BS48SNX	R-648-CFX	WA48-76.1X12.5SX	97	51	120	11.58
3	80X10.0	**R-648WA-80X10.0S**	R48X	BS48SNX	R-648-CFX	WA48-80X10.0SX	97	60	120	11.47
3	88.9X3.1	**R-648WA-88.9X3.1S**	R48X	BS48SNX	R-648-CFX	WA48-88.9X3.1SX	97	73	120	10.58
3	88.9X5.5	**R-648WA-88.9X5.5S**	R48X	BS48SNX	R-648-CFX	WA48-88.9X5.5SX	97	73	120	10.87
3	88.9X7.7	**R-648WA-88.9X7.7S**	R48X	BS48SNX	R-648-CFX	WA48-88.9X7.7SX	97	74	120	11.07
3	88.9X8.8	**R-648WA-88.9X8.8S**	R48X	BS48SNX	R-648-CFX	WA48-88.9X8.8SX	97	71	120	11.30
3	88.9X11.1	**R-648WA-88.9X11.1S**	R48X	BS48SNX	R-648-CFX	WA48-88.9X11.1SX	97	67	120	11.74
3	88.9X12.5	**R-648WA-88.9X12.5S**	R48X	BS48SNX	R-648-CFX	WA48-88.9X12.5SX	97	64	120	12.00
3	88.9X15.2	**R-648WA-88.9X15.2S**	R48X	BS48SNX	R-648-CFX	WA48-88.9X15.2SX	97	59	120	12.40
3	90X3.5	**R-648WA-90X3.5S**	R48X	BS48SNX	R-648-CFX	WA48-90X3.5SX	97	73	120	10.59
3	90X5.0	**R-648WA-90X5.0S**	R48X	BS48SNX	R-648-CFX	WA48-90X5.0SX	97	80	120	10.90
3	90X9.0	**R-648WA-90X9.0S**	R48X	BS48SNX	R-648-CFX	WA48-90X9.0SX	97	72	120	11.25
3	97X12.0	**R-648WA-97X12.0S**	R48X	BS48SNX	R-648-CFX	WA48-97X12.0SX	97	73	110	11.05

Other sizes on request.

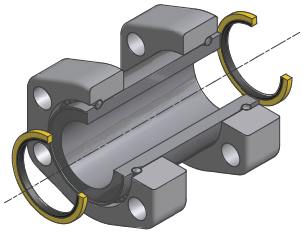
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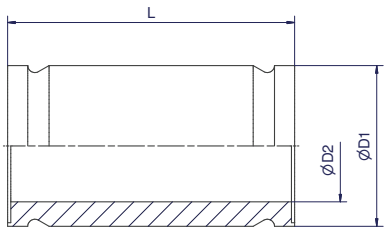
Order code suffixes		
Material	Suffix surface and material	Example
Steel	S	R-620WA-46X8.0S
Stainless steel	SS	R-620WA-46X8.0SS

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

BF – Bulkhead flange

SAE 6000/ISO 6162-2





Size Inch	Complete Part Order code	Bulkhead Body Order code	D1	D2	L	Weight body (Steel) kg/1 piece
1/2	**R-608BFS**	BF08SX	26	14	170	0.49
3/4	**R-612BFS**	BF12SX	36	20	170	0.92
1	**R-616BFS**	BF16SX	39	24	170	0.96
1 1/4	**R-620BFS**	BF20SX	46	30	180	1.30
1 1/2	**R-624BFS**	BF24SX	56	39	180	1.75
2	**R-632BFS**	BF32SX	66	49	210	2.45
2 1/2	**R-640BFS**	BF40SX	80	60	220	3.70
3	**R-648BFS**	BF48SX	97	73	240	7.85

Other sizes on request.

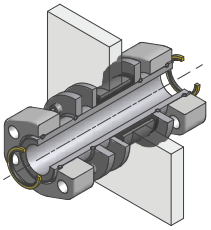
Please change suffixes according to material/surface required

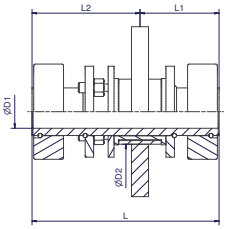
Order code suffixes		
Material	Suffix surface and material	Example
Steel	S	R-620BFS
Stainless steel	SS	R-620BFSS

Parflange® F37 – SAE 6000/ISO 6162-2

VB – Vibra bulkhead

SAE 6000/ISO 6162-2





Size Inch	Tube	Complete Part Order code	D1	D2	L	L1	L2	Weight (Steel) kg/1 kit
1	39X7.5	**R-616VBCF**	24	59.5	220	95	125	3.20
1 1/4	46X8.0	**R-620VBCF**	30	66.5	220	95	125	4.10
1 1/2	56X8.5	**R-624VBCF**	39	76.5	220	95	125	4.90
2	66X8.5	**R-632VBCF**	49	86.5	250	110	140	6.19

Other sizes on request.

Please change suffixes according to material/surface required

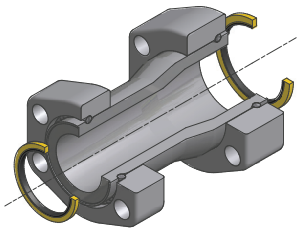
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-620VBCF
Stainless steel	SS	R-620VBSS

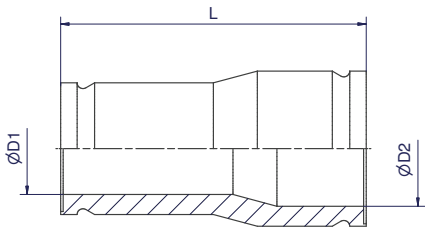
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Parflange® F37 – SAE 6000/ISO 6162-2

RF – Reducer flange

SAE 6000/ISO 6162-2





Size Inch	Complete Part Order code	Reducer Body Order code	D1	D2	L	Weight body (Steel) kg/1 piece
3/4 - 1/2	**R-612-608RFCF**	**RF12-08CFX**	14	20	65	0.3
1 - 1/2	**R-616-608RFCF**	**RF16-08CFX**	14	24	100	0.4
1 - 3/4	**R-616-612RFCF**	**RF16-12CFX**	20	24	100	0.6
1 1/4 - 1	**R-620-616RFCF**	**RF20-16CFX**	24	30	110	0.7
1 1/2 - 1	**R-624-616RFCF**	**RF24-16CFX**	24	39	115	0.9
1 1/2 - 1 1/4	**R-624-620RFCF**	**RF24-20CFX**	30	39	130	1.1
2 - 1 1/4	**R-632-620RFCF**	**RF32-20CFX**	30	49	130	1.3
2 - 1 1/2	**R-632-624RFCF**	**RF32-24CFX**	39	49	130	1.4
2 1/2 - 1 1/2	**R-640-624RFCF**	**RF40-24CFX**	39	60	150	2.1
2 1/2 - 2	**R-640-632RFCF**	**RF40-32CFX**	49	60	150	2.2
3 - 2	**R-648-632RFCF**	**RF48-32CFX**	49	73	180	3.4
3 - 2 1/2	**R-648-640RFCF**	**RF48-40CFX**	60	73	180	3.7

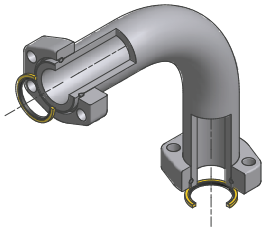
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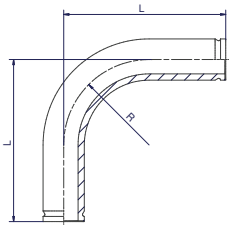
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-620-616RFCF
Stainless steel	SS	R-620-616RFSS

FB90 – 90° Flange bend

SAE 6000/ISO 6162-2





Size Inch	Tube	Complete Part Order code	90° Flange Bend Order code	L	R	Weight body (Steel) kg/1 piece
1	39X7.5	**R-616FB90S**	**FB90-16SX**	160	98	1.59
1 1/4	46X8.0	**R-620FB90S**	**FB90-20SX**	180	96	2.35
1 1/2	56X8.5	**R-624FB90S**	**FB90-24SX**	220	116	3.84
2	66X8.5	**R-632FB90S**	**FB90-32SX**	275	165	5.72
2 1/2	80X10.0	**R-640FB90S***	**FB90-40SX***	370	200	11.20
3	97X12.0	**R-648FB90S***	**FB90-48SX***	450	243	19.90

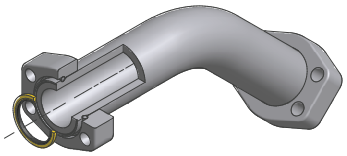
*only available as Steel version.

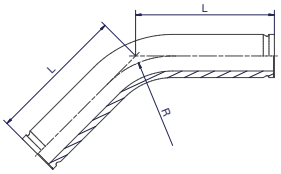
Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Comments
Steel, zinc plated, Cr(VI)-free	CF	R-620FB90CF	
Steel	S	R-620FB90S	
Stainless steel	SS	R-620FB90SS	on request

FB45 – 45° Flange bend

SAE 6000/ISO 6162-2





Size Inch	Tube	Complete Part Order code	45° Flange Bend Order code	L	R	Weight body (Steel) kg/1 piece
1	39X7.5	**R-616FB45S**	**FB45-16SX**	140	80	1.58
1 1/4	46X8.0	**R-620FB45S**	**FB45-20SX**	150	96	2.18
1 1/2	56X8.5	**R-624FB45S**	**FB45-24SX**	180	116	3.49
2	66X8.5	**R-632FB45S**	**FB45-32SX**	220	165	5.16
2 1/2	80X10.0	**R-640FB45S***	**FB45-40SX***	240	200	8.07
3	97X12.0	**R-648FB45S***	**FB45-48SX***	260	243	12.70

Other sizes on request.
*only available as Steel version.

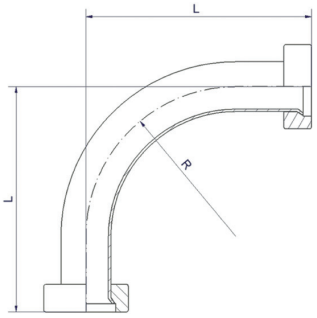
Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Comments
Steel, zinc plated, Cr(VI)-free	CF	R-620FB45CF	
Steel	S	R-620FB45S	
Stainless steel	SS	R-620FB45SS	on request

FB90 – 90° Flange bend

SAE 6000/ISO 6162-2





Size Inch	Tube	Complete Part Order code	L	R
1 1/2	50X5.0	**F37-624FB90**	220	150
2	60X5.0	**F37-632FB90**	275	180

Other sizes on request.

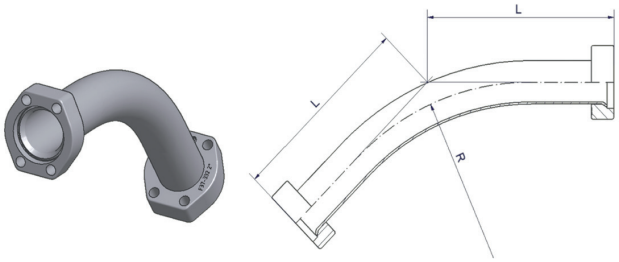
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-624FB90CF
Stainless steel	SS	F37-624FB90SS

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FB45 – 45° Flange bend

SAE 6000/ISO 6162-2



Size Inch	Tube	Complete Part Order code	L	R
1 1/2	50X5.0	**F37-624FB45**	180	150
2	60X5.0	**F37-632FB45**	220	180

Other sizes on request.

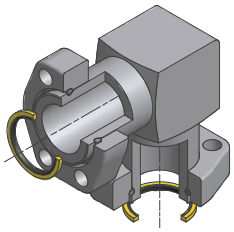
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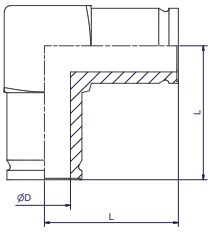
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-624FB45CF
Stainless steel	SS	F37-624FB45SS

Parflange® F37 – SAE 6000/ISO 6162-2

LF – Elbow flange

SAE 6000/ISO 6162-2





Size Inch	Complete Part Order code	Elbow Flange body Order code	D	L	Weight body (Steel) kg/1 piece
1/2	**R-608LFCF**	**LF08CFX**	14	70	0.50
3/4	**R-612LFCF**	**LF12CFX**	20	80	1.07
1	**R-616LFCF**	**LF16CFX**	24	85	1.32
1 1/4	**R-620LFCF**	**LF20CFX**	30	90	1.72
1 1/2	**R-624LFCF**	**LF24CFX**	39	100	2.60
2	**R-632LFCF**	**LF32CFX**	49	110	4.02
2 1/2	**R-640LFCF**	**LF40CFX**	60	140	6.40
3	**R-648LFCF**	**LF48CFX**	73	160	10.80

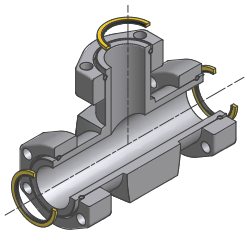
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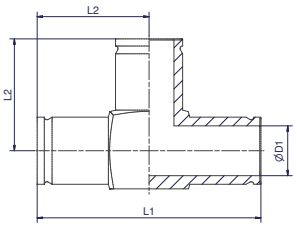
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-620LFCF
Stainless steel	SS	R-620LFSS

TF – TEE flange

SAE 6000/ISO 6162-2





Size Inch	Complete Part Order code	Tee Flange body Order code	D1	L1	L2	Weight body (Steel) kg/1 piece
1/2	**R-608TFCF**	**TF08CFX**	14	120	60	0.75
3/4	**R-612TFCF**	**TF12CFX**	20	130	65	3.20
1	**R-616TFCF**	**TF16CFX**	24	140	70	2.00
1 1/4	**R-620TFCF**	**TF20CFX**	30	180	90	2.03
1 1/2	**R-624TFCF**	**TF24CFX**	39	200	100	3.13
2	**R-632TFCF**	**TF32CFX**	49	220	110	4.53
2 1/2	**R-640TFCF**	**TF40CFX**	60	260	130	7.05
3	**R-648TFCF**	**TF48CFX**	73	320	160	12.81

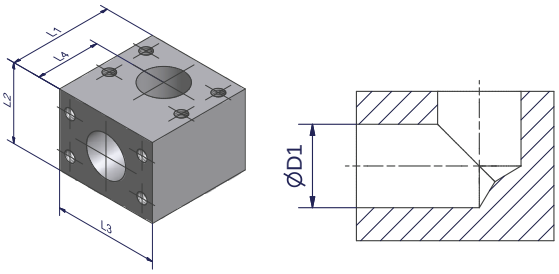
Other sizes on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-620TFCF
Stainless steel	SS	R-620TFSS

LB – Flange L-block

SAE 6000/ISO 6162-2



Size Inch	Order code	D1	L1	L2	L3	L4	Weight (Steel) kg/1 piece
1/2	**LB608CFX**	13	61	46	61	38	1.3
3/4	**LB612CFX**	19	75	60	75	49	2.4
1	**LB616CFX**	25	80	65	80	54	2.8
1 1/4	**LB620CFX**	30	86	64	90	57	3.2
1 1/2	**LB624CFX**	38	100	74	100	66	4.6
2	**LB632CFX**	48	122	88	132	78	8.8

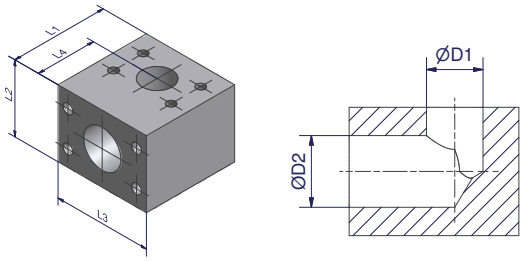
Other sizes and custom versions on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	LB620CFX
Stainless steel	SS	LB620SSX

LBR – Flange L-block reducer

SAE 6000/ISO 6162-2



Size Inch	Order code	D1	D2	L1	L2	L3	L4	Weight (Steel) kg/1 piece
1 - 3/4	**LBR616-612CFX**	19	25	80	65	80	54	2.6
1 1/4 - 3/4	**LBR620-612CFX**	19	30	86	64	90	57	3.0
1 1/4 - 1	**LBR620-616CFX**	25	30	86	64	90	57	3.3
1 1/2 - 1	**LBR624-616CFX**	25	38	100	74	100	66	4.9
1 1/2 - 1 1/4	**LBR624-620CFX**	30	38	100	74	100	66	4.8
2 - 1	**LBR632-616CFX**	25	48	122	88	132	78	9.4
2 - 1 1/4	**LBR632-620CFX**	30	48	122	88	132	78	9.3
2 - 1 1/2	**LBR632-624CFX**	38	48	122	88	132	78	9.1

Other sizes and custom versions on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	LBR620-616CFX
Stainless steel	SS	LBR620-616SSX

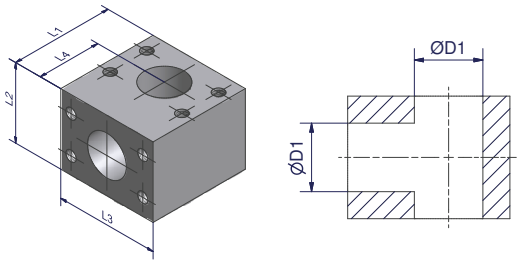
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Parflange® F37 – SAE 6000/ISO 6162-2

TB – Flange T-block

SAE 6000/ISO 6162-2



Size Inch	Order code	D1	L1	L2	L3	L4	Weight (Steel) kg/1 piece
1/2	**TB608CFX**	13	61	46	61	38	1.10
3/4	**TB612CFX**	19	75	60	75	49	2.27
1	**TB616CFX**	25	80	65	80	54	2.46
1 1/4	**TB620CFX**	30	86	64	90	57	3.04
1 1/2	**TB624CFX**	38	100	74	100	66	4.40
2	**TB632CFX**	50	122	88	132	78	8.07

Other sizes and custom versions on request.

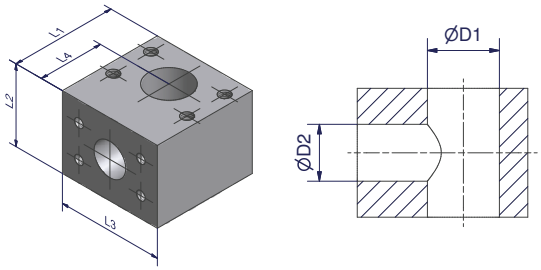
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	TB620CFX
Stainless steel	SS	TB620SSX

Parflange® F37 – SAE 6000/ISO 6162-2

TBR – Flange T-block reducer

SAE 6000/ISO 6162-2



Size Inch	Order code	D1	D2	L1	L2	L3	L4	Weight (Steel) kg/1 piece
1 - 3/4 - 1	**TBR616-612-616CFX**	25	19	80	65	80	54	2.7
1 1/4 - 1 - 1 1/4	**TBR620-616-620CFX**	30	25	86	64	90	57	3.1
1 1/2 - 1 - 1 1/2	**TBR624-616-624CFX**	38	25	100	74	100	66	4.6
1 1/2 - 1 1/4 - 1 1/2	**TBR624-620-624CFX**	38	30	100	74	100	66	4.4
2 - 1 1/4 - 2	**TBR632-620-632CFX**	48	30	122	88	132	78	8.7
2 - 1 1/2 - 2	**TBR632-624-632CFX**	48	38	122	88	132	78	8.5

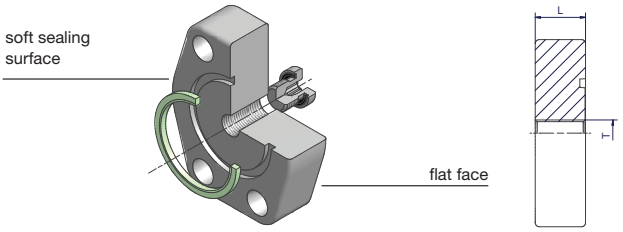
Other sizes and custom versions on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	TBR620-616-620CFX
Stainless steel	SS	TBR620-616-620SSX

BFV – Blind flange

SAE 6000/ISO 6162-2



Size Inch	Flange incl. VSTI-ED and Seal Order code	L	T1	Weight body (Steel) kg/1 piece
1/2	**F37-608BFVCF**	20	G 1/4	0.29
3/4	**F37-612BFVCF**	24	G 1/4	0.57
1	**F37-616BFVCF**	24	G 1/4	0.76
1 1/4	**F37-620BFVCF**	30	G 1/4	1.27
1 1/4	**F37-620H12BFVCF**	30	G 1/4	1.31
1 1/2	**F37-624BFVCF**	35	G 1/4	2.16
2	**F37-632BFVCF**	40	G 1/4	3.40
2 1/2	**F37-640BFVCF**	50	G 1/4	7.74
3	**F37-648BFVCF**	52	G 1/4	11.65

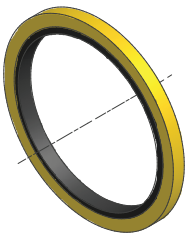
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-620BFVCF
Stainless steel	SS	F37-620BFVSS

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BS – Bonded seal

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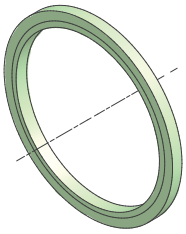


Size Inch	Steel	Stainless Steel
1/2	**BS08SNX**	**BS08SSNX**
3/4	**BS12SNX**	**BS12SSNX**
1	**BS16SNX**	**BS16SSNX**
1 1/4	**BS20SNX**	**BS20SSNX**
1 1/2	**BS24SNX**	**BS24SSNX**
2	**BS32SNX**	**BS32SSNX**
2 1/2	**BS40SNX**	**BS40SSNX**
3	**BS48SNX**	**BS48SSNX**

Sealing: NBR
Other sealing materials like FKM on request.

F37S/F37RS – F37 Seal

SAE 6000/ISO 6162-2

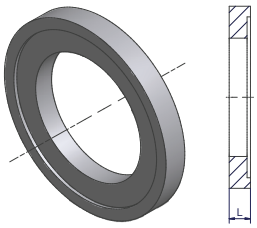


Size Inch	F37 Seal (F37 seal for flaring system)	F37RS (F37 seal for retaining ring system)
1/2	**F37S08X**	-
3/4	**F37S12X**	-
1	**F37S16X**	-
1 1/4	**F37S20X**	**F37RS20X**
1 1/2	**F37S24X**	**F37RS24X**
2	**F37S32X**	**F37RS32X**
2 1/2	**F37S40X**	**F37RS40X**
3	**F37S48X**	**F37RS48X**

Other sizes on request
Sealing: Polyurethane
Material properties and applications see page 20.

AO – Adapter bonded seal to F37 seal/O-Ring

SAE 6000/ISO 6162-2



Size Inch	Adapter* Order code	L	Weight (Steel) kg/1 piece
1/2	**AO08CFX**	5	0.02
3/4	**AO12CFX**	5	0.02
1	**AO16CFX**	7	0.06
1 1/4	**AO20CFX**	7	0.06
1 1/2	**AO24CFX**	7	0.08
2	**AO32CFX**	7	0.10

*Part excluding seals.
Other sizes on request.
For assembling add L to the corresponding bolt length.

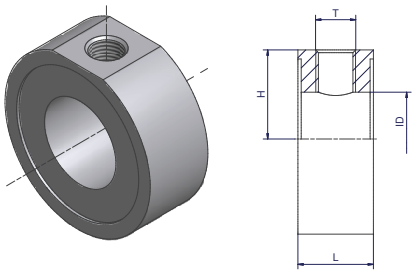
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	AO32CFX
Stainless steel	SS	AO32SSX

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TBT – Tee between bonded seal

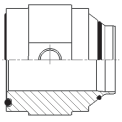
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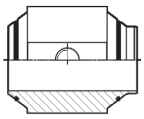
Size Inch	Order code*	L	H	T	ID	Weight (Steel) kg/1 piece
1	**TBT16-1/4CFX**	25	20.5	G 1/4	25	0.21
1 1/4	**TBT20-1/4CFX**	25	24.5	G 1/4	27	0.30
1 1/4	**TBT20-1/2CFX**	40	22.5	G 1/2	24	0.49
1 1/2	**TBT24-1/4CFX**	25	29.5	G 1/4	31	0.42
1 1/2	**TBT24-1/2CFX**	40	28.0	G 1/2	30	0.68
2	**TBT32-1/4CFX**	25	35.0	G 1/4	41	0.51
2	**TBT32-1/2CFX**	40	34.0	G 1/2	38	0.87
2 1/2	**TBT40-1/4CFX**	30	41.5	G 1/4	60	0.63
3	**TBT48-1/4CFX**	30	50.0	G 1/4	72	0.90

*Part excluding seals.
For assembling add L to the corresponding bolt length.
For testpoints and diagnostic test equipment see catalogue 4100, Industrial Tube Fittings Europe.

Alternative versions on request.



TFVB



TTB

Please change suffixes according to material/surface required

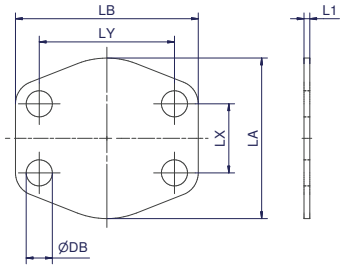
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	TBT24-1/4CFX
Stainless steel	SS	TBT24-1/4SSX

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AP – SAE flange locking plate

SAE 6000/ISO 6162-2



Nom. flange size		Order code	L1	LA	LB	LX	LY	DB	Weight body (Steel) kg/1 piece
SAE (In)	ISO (DN)								
1/2	13	**8AP2**	4	47	57	18.2	40.5	9.0	0.02
3/4	19	**12AP2**	4	53	71	23.8	50.8	11.0	0.02
1	25	**16AP2**	4	66	80	27.8	57.1	13.0	0.03
1 1/4	32	**20AP2**	4	77	94	31.8	66.7	15.0	0.04
1 1/2	38	**24AP2**	4	89	103	36.5	79.4	17.0	0.05
2	51	**32AP2**	4	123	135	44.5	96.8	21.0	0.06
2 1/2	64	**40AP2**	4	150	166	58.7	123.8	25.0	0.08
3	76	**48AP2**	4	178	208	71.4	125.4	32.0	0.10

This flange locking plate is not to be used under pressure!

Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Description
Steel, zinc plated, Cr(VI)-free	CF	8AP2CF	only locking plate
Stainless steel	SS	8AP2SS	only locking plate
Steel (zinc plated, Cr(VI)-free), SBR 70 Shore A	CFSBR70	8AP2CFSBR70	locking incl. rubber plate L1 increase due to rubber plate

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Bolts and nuts for flange

SAE 6000/ISO 6162-2



F37 Flare Flange

Size Inch	Flange	F37 Seal / Flat Face / Bonded Seal		Nut
		Recommended bolts Tube to Port	Recommended bolts Tube to Tube	
1/2	F37-608-CFX	4 x ZYLS8X35	4 x ZYLS8X65	4 x ISO4032-M8
3/4	F37-612-CFX	4 x ZYLS10X45	4 x ZYLS10X75	4 x ISO4032-M10
1	F37-616-CFX	4 x ZYLS12X45	4 x ZYLS12X75	4 x ISO4032-M12
1 1/4	F37-620-CFX	4 x ZYLS14X55	4 x ZYLS14X90	4 x ISO4032-M14
1 1/4	F37-620H12-CFX	4 x ZYLS12X55	4 x ZYLS12X90	4 x ISO4032-M12
1 1/2	F37-624-CFX	4 x ZYLS16X60	4 x ZYLS16X100	4 x ISO4032-M16
2	F37-632-CFX	4 x ZYLS20X70	4 x ZYLS20X120	4 x ISO4032-M20

Retaining Ring Flange

Size Inch	Flange	Flat Face / Bonded Seal		Pipe Seal Carrier (PSC)		Nut
		Recommended bolts Tube to Port	Recommended bolts Tube to Tube	Recommended bolts Tube to Port	Recommended bolts Tube to Tube	
1/2	R-608-CFX	4 x ZYLS8X35	4 x ZYLS8X60	-	-	4 x ISO4032-M8
3/4	R-612-CFX	4 x ZYLS10X45	4 x ZYLS10X70	-	-	4 x ISO4032-M10
1	R-616-CFX	4 x ZYLS12X45	4 x ZYLS12X80	-	-	4 x ISO4032-M12
1 1/4	R-620-CFX	4 x ZYLS14X55	4 x ZYLS14X90	4 x ZYLS14X60	4 x ZYLS14X100	4 x ISO4032-M14
1 1/4	R-620H12-CFX	4 x ZYLS12X55	4 x ZYLS12X90	4 x ZYLS12X60	4 x ZYLS12X100	4 x ISO4032-M12
1 1/2	R-624-CFX	4 x ZYLS16X60	4 x ZYLS16X100	4 x ZYLS16X70	4 x ZYLS16X110	4 x ISO4032-M16
2	R-632-CFX	4 x ZYLS20X70	4 x ZYLS20X120	4 x ZYLS20X80	4 x ZYLS20X130	4 x ISO4032-M20
2 1/2	R-640-CFX	4 x ZYLS24X90	4 x ZYLS24X150	4 x ZYLS24X110	4 x ZYLS24X160	4 x ISO4032-M24
3	R-648-CFX	4 x ZYLS30X100	4 x ZYLS30X160	4 x ZYLS30X120	4 x ZYLS30X170	4 x ISO4032-M30

Bolts and nuts are not included in complete part numbers.

Latest information about nuts and bolts see www.parker.com/hpce -> Support -> Literature and Reference Materials -> Manuals

Please add the suffixes according to the bolt quality

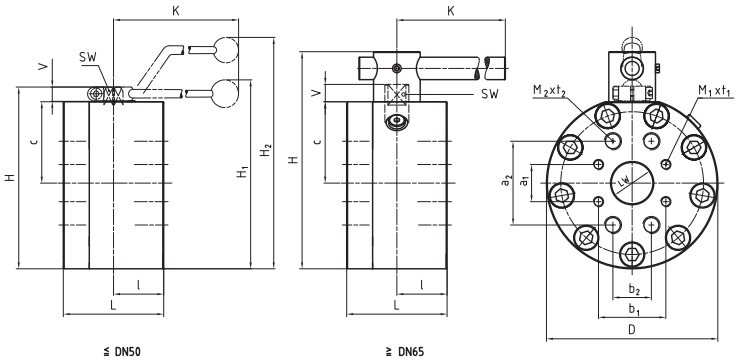
	Steel		0Stainless Steel
Grade	8.8	10.9	A4-80X
Bolt	ZYLS16X60VZX	ZYLS16X60109X	ZYLS16X60A4-80X
Nut	ISO4032-M12-8VZX	ISO4032-M12-10VZX	ISO4032-M12-80X

* Bolt grade 10.9 recommended. Bolt grade 8.8 can affect the pressure capability.

KH – Ball valve drilled and tapped for SAE 6000 and SAE 3000 flanges

SAE 6000/ISO 6162-2





Material Steel

Size Inch	Order Code	DN	LW	L	l	D	H	c	V	K	SW	SAE 3000 boring pattern				SAE 6000 boring pattern				H1	H2	Material Code	Lever	Weight kg	W.P. bar
												a1	b1	M1	t1	a2	b2	M2	t2						
1/2	**KH08-15CF**	15	15	75	35	88	88	31.0	13	170	12	17.5	38.1	M08	18	40.5	18.2	M08	18	-	132	**212A**	St	2.96	350 / 420
3/4	**KH12-20CF**	20	20	80	35	98	100	36.5	14	170	14	22.2	47.6	M10	18	50.8	23.8	M10	18	-	150	**212A**	St	4.20	350 / 420
1	**KH16-25CF**	25	25	88	38	118	113	39.5	14	170	14	26.2	52.4	M10	20	57.2	27.8	M10	20	-	163	**212A**	St	6.00	320 / 420
1 1/4	**KH20-32CF***	32	32	100	50	145	158	68.0	17	306	17	30.2	58.7	M10	20	66.7	31.8	M12	22	-	232	**212A**	St	11.70	280 / 420
1 1/4	**KH20-32TM1214CF***	32	32	100	50	145	158	68.0	17	306	17	30.2	58.7	M12	20	66.7	31.8	M14	22		232	**212A**	St	11.65	210 / 400
1 1/2	**KH24-38CF**	40	38	110	55	165	178	78.0	17	306	17	35.7	69.9	M12	20	79.4	36.5	M16	27	-	252	**212A**	St	17.10	210 / 420
2	**KH32-48CF**	50	48	116	58	198	210	94.0	17	306	17	42.9	77.8	M12	20	96.8	44.5	M20	28	-	284-	**212A**	St	24.60	210 / 420
2 1/2	**KH40-63CF**	65	63	170	75	218	275	100.0	20	600	16	88.9	50.8	M12	19	58.7	123.8	M24	41	-	-	**282A**	St	44.40	175 / 420
3	**KH48-76CF**	80	76	170	79	258	315	115.0	26	600	19	106.4	61.9	M16	24	71.4	152.4	M30	47	-	-	**282A**	St	54.90	160 / 420

*Please choose between KH20-32CF and KH20-32TM1214CF according to needed connection threads M1 and M2.
Steel ball valves 1/2" up to 2" with SAE 3000 and SAE 6000 boring pattern.
The bore pattern for 2 1/2" amd 3" is turned to 90°.

Please change suffixes according to material/surface required

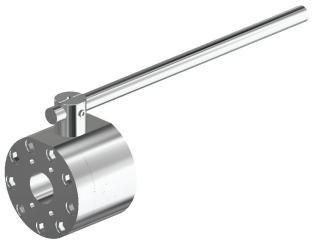
Order code suffixes			
Material	Suffix surface and material	Example	Comments
Steel, zinc plated, Cr(VI)-free	CF	KH20-32CF	

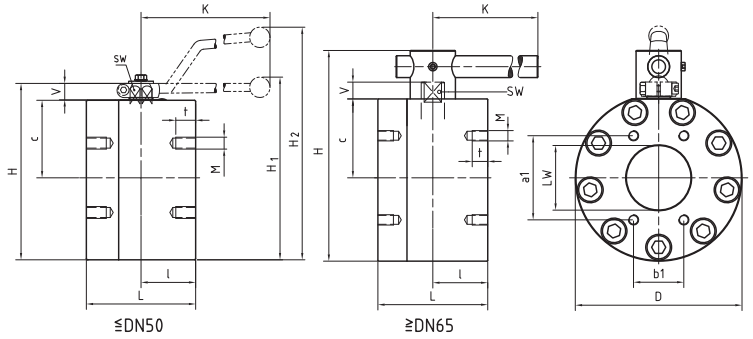
	Material 221A	Material 282A
Body	Stahl	Steel
Ball	Stahl	Steel
Stem	Stahl	Stainless Steel
Ball seats	POM	POM
O-Ring	NBR	NBR
Tmin / Tmax	-10°C / 100°C	-10°C / 100°C

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KH – Ball valve drilled and tapped for SAE 6000 flanges

SAE 6000/ISO 6162-2





Material Stainless Steel

Size Inch	Order Code	DN	LW	L	l	D	H	c	V	K	SW	a1	b1	M	t	H1	H2	Material Code	Lever	Weight kg	W.P. (bar)
1/2	**KH608-15SS**	15	15	75	35	78	88	31.0	13	160	12	40.5	18.2	M08	18	-	127	**442A**	Al	2.50	420
3/4	**KH612-20SS**	20	20	80	35	98	100	36.5	14	200	14	50.8	23.8	M10	18	103	-	**442A**	Zn	4.25	420
1	**KH616-25SS**	25	25	88	38	118	113	39.5	14	200	14	57.2	27.8	M12	20	116	-	**442A**	Zn	6.30	420
1 1/4	**KH620-32SS***	32	32	100	50	145	158	68.0	17	320	17	66.7	31.8	M12	22	167	-	**442A**	Al	11.80	420
1 1/4	**KH620-32TM14SS***	32	32	100	50	145	158	68.0	17	320	17	66.7	31.8	M14	22	167		**442A**	Al	11.80	400
1 1/2	**KH624-38SS**	40	38	110	55	165	178	78.0	17	320	17	79.4	36.5	M16	27	187	-	**442A**	Al	16.90	420
2	**KH632-48SS**	50	48	116	58	198	210	94.0	17	320	17	96.8	44,.5	M20	28	219	-	**442A**	Al	24.60	420
2 1/2	**KH640-63SS**	65	63	170	75	218	275	100.0	20	600	16	58.7	123.8	M24	41	-	-	**442A**	St	44.50	420
3	**KH648-76SS**	80	76	170	79	258	315	114.5	26	600	19	71.4	152.4	M30	47	-	-	**442A**	St	63.50	420

*Please choose between KH620-32SS and KH620-32TM14SS according to needed connection threads M.

Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Comments
Stainless steel	SS	KH620-32SS	

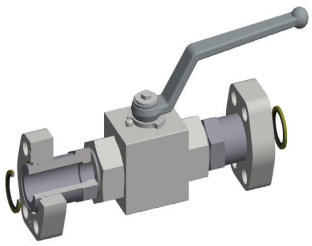
	Material 442A
Body	Stainless Steel
Ball	Stainless Steel
Stem	Stainless Steel
Ball seats	POM
O-Ring	NBR
Tmin / Tmax	-30°C / 100°C

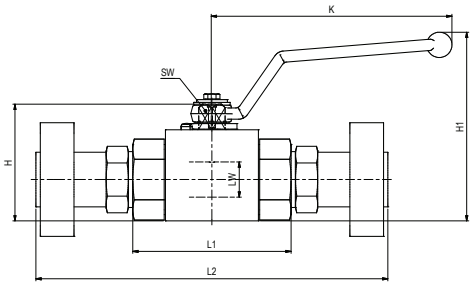
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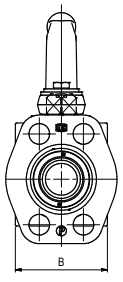
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KH-R – Ball valve with SAE 6000 Flanges

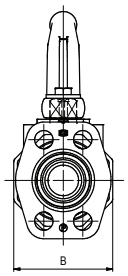
SAE 6000/ISO 6162-2







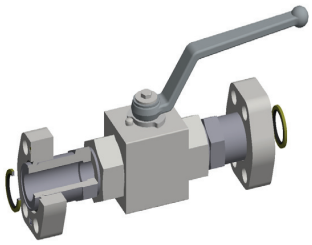
≤1"

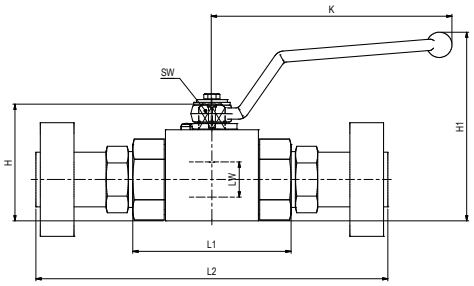


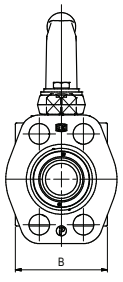
>1"

Material Steel

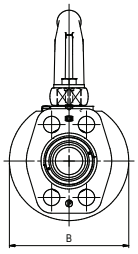
Size Inch	Complete part Order code	Valve body Order code	LW	L1	L2	B	H	SW	K	H1	Weight (Steel) kg/1 kit	W.P. bar
3/4	**KH-R-612-20CF**	KH-R-12-20CF	20	95	217	49	75	14	170	129	2.8	420
1	**KH-R-616-25CF**	KH-R-16-25CF	25	113	251	58	83	14	170	135	4.2	315
1	**KH-R-616-420BDN25CF**	KH-R-16-420BDN25CF	25	113	251	70	88	14	170	140	5.1	420
1 1/4	**KH-R-620-32CF**	KH-R-20-32CF	32	111	271	81	107	17	306	178	6.8	420
1 1/2	**KH-R-624-38CF**	KH-R-24-38CF	38	130	316	100	124	17	306	196	10.8	420
2	**KH-R-632-48CF**	KH-R-32-48CF	48	140	348	118	138	17	306	210	16.5	420







≤1"



>1"

Material Stainless Steel

Size Inch	Complete part Order code	Valve body Order code	LW	L1	L2	B	H	SW	K	H1	Weight (Steel) kg/1 kit	W.P. bar
3/4	**KH-R-612-20SS**	KH-R-12-20SS	20	95	217	49	75	14	170	129	2.8	420
1	**KH-R-616-25SS**	KH-R-16-25SS	25	113	251	58	83	14	170	135	4.2	315
1	**KH-R-616-420BDN25SS**	KH-R-16-420BDN25SS	25	131	268	70	88	14	170	140	6.8	420
1 1/4	**KH-R-620-32SS**	KH-R-20-32SS	32	111	271	109	121	17	306	192	9.4	420
1 1/2	**KH-R-624-38SS**	KH-R-24-38SS	38	130	316	124	136	17	306	207	13.8	420
2	**KH-R-632-48SS**	KH-R-32-48SS	48	140	348	132	145	17	306	217	18.7	420

Other sizes on request.

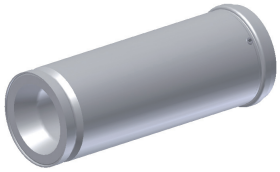
Please change suffixes according to material/surface required

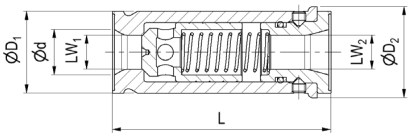
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	KH-R-620-32CF
Stainless steel	SS	KH-R-620-32SS

	Material 112A	Material 442A
Body	Steel	Stainless Steel
Ball	Steel	Stainless Steel
Stem	Steel	Stainless Steel
Ball seats	POM	POM
O-Ring	NBR	NBR
Tmin / T max	-20°C / 100 °C	-30°C / 100°C

RHD-R – Non return valves

SAE 6000/ISO 6162-2





Material Steel

Size Inch	Complete part Order code	Valve body Order code	L	D1	D2	d	LW1	LW2	Weight body (Steel) kg/1 piece	W.P. bar
3/4	**RHD-R-612-0.5BCF**	RHD-R-12-0.5BCF	96.4	36	40.2	20.0	15	15.0	0.53	
1	**RHD-R-616-0.5BCF**	RHD-R-16-0.5BCF	116.6	39	44.2	23.0	18	13.0	0.78	
1 1/4	**RHD-R-620-0.5BCF**	RHD-R-20-0.5BCF	135.6	46	51.1	30.0	20	17.0	1.26	420
1 1/2	**RHD-R-624-0.5BCF**	RHD-R-24-0.5BCF	135.6	56	60.5	38.8	30	27.0	1.61	
2	**RHD-R-632-0.5BCF**	RHD-R-32-0.5BCF	180.1	66	70.5	49.0	40	36.4	2.54	

Opening pressure 0.5 bar.
Other pressure rates on request.
Complete Part = body + flanges + retaining rings + bonded seals.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	RHD-R-620-0.5BCF
Stainless steel (inner parts steel)	SS	RHD-R-620-0.5BSS

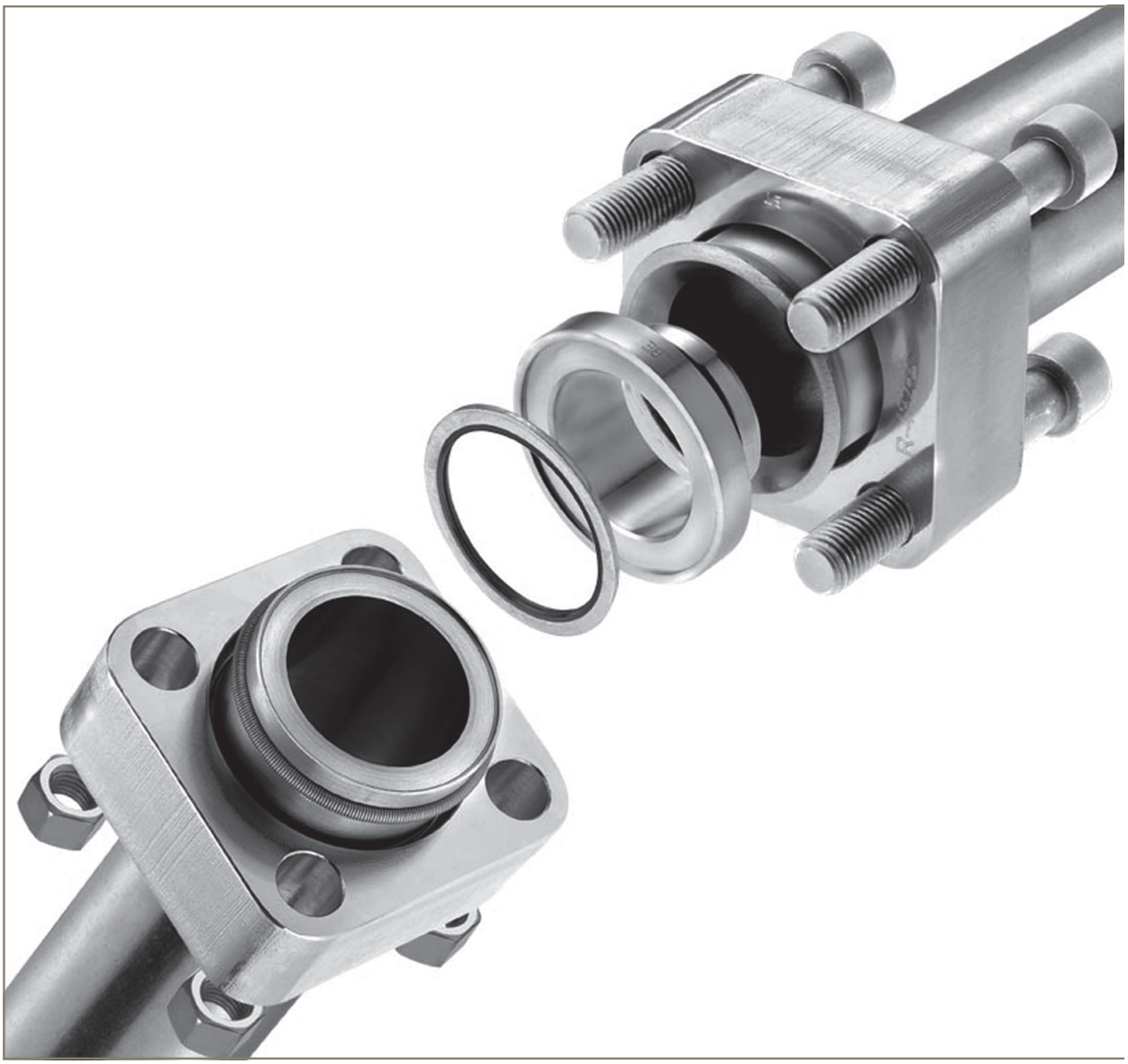
	Materials
Body	Steel / Stainless Steel
Piston	Steel
O-Ring	NBR
Tmin / T max	-10°C / 100 °C

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ISO 6164 System

250 – 400 bar

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Programme overview ISO 6164 footprint

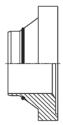
Parflange® F37 connection parts

Flanges

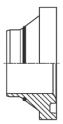


F37 – p.153/154

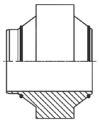
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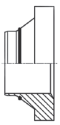
TFB – p.157



TFV – p.158



TT – p.159



TF – p.160

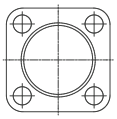
Sleeve



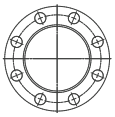
SL – p.161

Retaining ring connection parts

Flanges



R – p.155



R – p.155

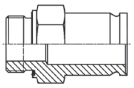


R-Ring – p.162

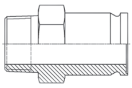


PSC – p.156

Male / Female



MTF-R – p.163



MTF-N – p.164



FTF-R – p.165

Weld

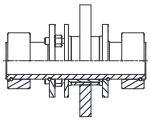


WA – p.166

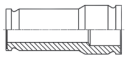
Tube to Tube



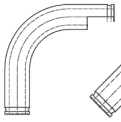
BF – p.167



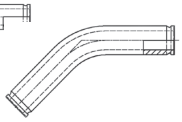
VB – p.168



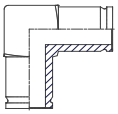
RF – p.169



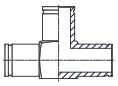
FB90 – p.170



FB45 – p.171



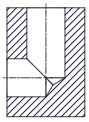
LF – p.172



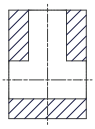
TF – p.173

SAE connection parts

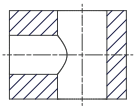
Blocks



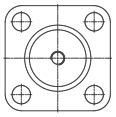
LB – p.174



TB – p.175



TBR – p.176



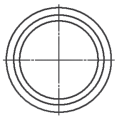
BFV – p.177

Seals Adapter Bolts

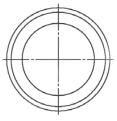
Components



BS – p.178



F37S – p.178

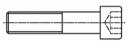


AO – p.179



TBT – p.180

Bolts and Nuts

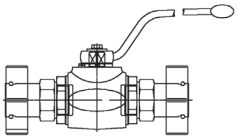


p.181

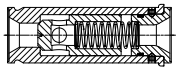
Ball valves



KH – p.182/183



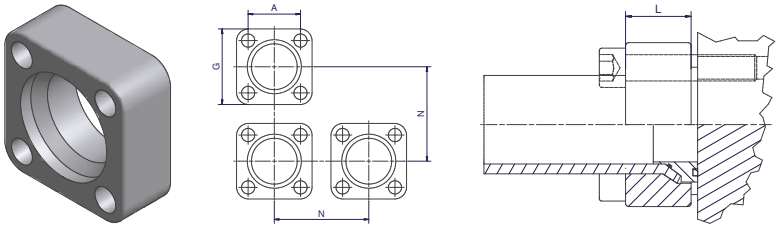
KH-R – p.184



RHD-R – p.185

F37 – Flare flange | ISO 6164 footprint

ISO 6164



Parflange F37 flange dimensions

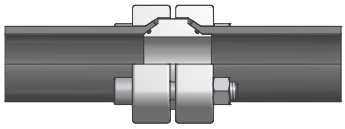
Size Inch	Flange Order code	A	G	N	L	Weight (Steel) kg/1 piece	W.P. bar
2	**F37-432-CFX**	69.3	100	105	40	1.80	
2 1/2	**F37-440-CFX**	83.4	120	125	50	3.00	
2 1/2	**F37-44073-CF***	83.4	120	125	50	3.10	400
3	**F37-448-CFX**	102.5	150	155	52	5.40	
3	**F37-448909-CF***	102.5	150	155	52	5.29	

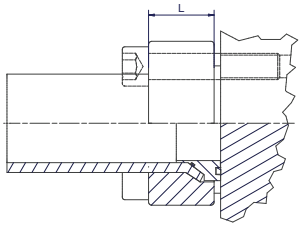
* Heavy series (with lockring).

Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Comments
Steel, zinc plated, Cr(VI)-free	CF	F37-432-CFX	
Stainless steel	SS	F37-432-SSX	
Galvanized hot dip zinc	TZN	F37-432-TZNX	on request

Parflange® F37 – ISO 6164





Part combination flaring ISO 6164

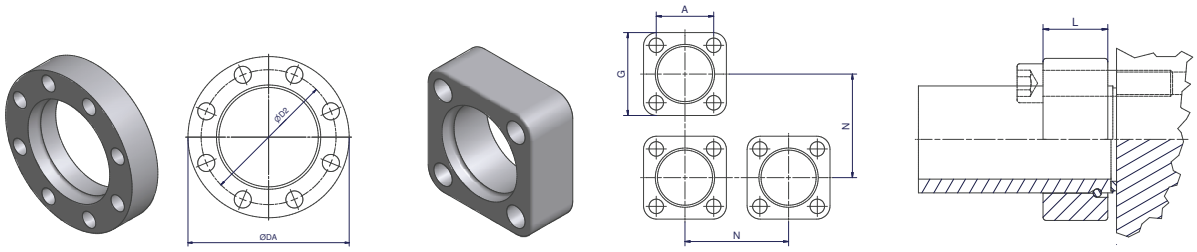
Flange Pressure (bar)	Size Inch	Pipe Size	Flange ISO 6164	Insert*	Sleeve
400	2	50X3.0	F37-432-CFX	IN32-50X3.0T...	SL32-60-50-CFX
	2	50X5.0	F37-432-CFX	IN32-50X5.0T...	SL32-60-50-CFX
	2	50X6.0	F37-432-CFX	IN32-50X6.0T...	SL32-60-50-CFX
	2	60X3.0	F37-432-CFX	IN32-60X3.0T...	
	2	60X5.0	F37-432-CFX	IN32-60X5.0T...	
	2	60X6.0	F37-432-CFX	IN32-60X6.0T...	
	2 1/2	60X3.0	F37-440-CFX	IN40-60X3.0T...	SL40-75-60-CFX
	2 1/2	60X5.0	F37-440-CFX	IN40-60X5.0T...	SL40-75-60-CFX
	2 1/2	60X6.0	F37-440-CFX	IN40-60X6.0T...	SL40-75-60-CFX
	2 1/2	73X7.0	F37-44073-CF	IN40-73X7.0T...	
	2 1/2	75X3.0	F37-440-CFX	IN40-75X3.0T...	
	2 1/2	75X5.0	F37-440-CFX	IN40-75X5.0T...	
	3	75X3.0	F37-448-CFX	IN48-75X3.0T...	SL48-90-75-CFX
	3	75X5.0	F37-448-CFX	IN48-75X5.0T...	SL48-90-75-CFX
	3	90X3.5	F37-448-CFX	IN48-90X3.5T...	
	3	90X5.0	F37-448-CFX	IN48-90X5.0T...	
	3	90X9.0	F37-448909-CF	IN48-90X9.0T...	
				Select the complete version:	
				* ...FBCF Bonded Seal version	
				...FVCF F37 Seal version	
				...TCF Tube to Tube version	
				...FCF Flat Face version	

Other sizes like schedule on request.

Bolts and nuts are not included in complete part numbers.
For recommended bolts and nuts see page 181.

R – Retaining ring flange | ISO 6164 footprint

ISO 6164



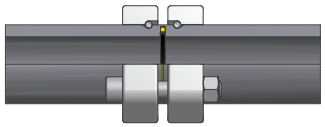
Retaining ring flange dimensions

Size Inch	Flange Order Code	A	G	N	L	Weight body (Steel) kg/1 piece	W.P. bar
2	**R-432-CFX**	69.3	100	105	40	1.60	400
2 1/2	**R-440-CFX**	83.4	120	125	50	2.90	
3	**R-448-CFX**	102.5	150	155	52	5.00	
4	**R-464-CFX**	123.7	180	185	70	9.70	
		D2	DA				
4 1/2	**R-872-CFX**	175.0	214		60	8.97	350
5	**R-880-CFX**	205.0	245		70	13.44	350
6	**R-896-CFX**	245.0	300		80	21.22	350
8	**R-8128-CFX**	315.0	385		92	39.27	250
10	**R-8160273-CFX**	375.0	450		90	59.31	250

Pressure rates related to flanges.
Other sizes like schedule on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-432-CFX
Stainless steel	SS	R-432-SSX
Galvanized hot dip zinc	TZN	R-432-TZNX



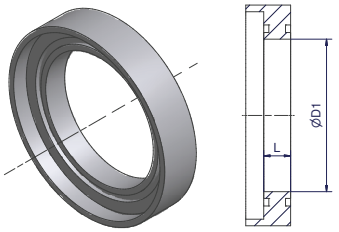
Part combination Bonded seal ISO 6164 connection

Flange pressure (bar)	Size Inch	Pipe Size	Flange	Retaining Ring	Bonded Seal
400	2	66X8.5	R-432-CFX	R32X	BS32SNX
	2 1/2	80X10.0	R-440-CFX	R40X	BS40SNX
	3	97X12.0	R-448-CFX	R48X	BS48SNX
	4	115X15.0	R-464-CFX	R64X	BS64SNX
350	4 1/2	130X15.0	R-872-CFX	R72X	BS72SNX
	5	150X15.0	R-880-CFX	R80X	BS80SNX

Bolts and nuts are not included in complete part numbers.
For recommended bolts and nuts see page 181.

PSC – Pipe seal carrier | ISO 6164 footprint

ISO 6164

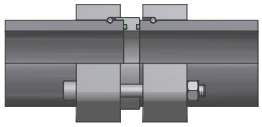


Size Inch	Pipe size	Seal carrier incl. F37 Seal	Seal carrier incl. O-Ring	L	D1	F37 Seal	O-Ring
2	66X8.5	PSC32-66X8.5VCF	PSC32-66X8.5OCF	10.0	49	F37RS32X	OR55.25X2.62X
2 1/2	80X10.0	PSC40-80X10VCF	PSC40-80X10OCF	15.0	60	F37RS40X	OR66.27X3.53X
3	97X12.0	PSC48-97X12VCF	PSC48-97X12OCF	15.0	73	F37RS48X	OR78.97X3.53X
4	115X15.0	PSC64-115X15VCF	PSC64-115X15OCF	15.0	85	F37RS64X	OR94.84X3.53X
4 1/2	130X15.0	PSC72-130X15VCF	PSC72-130X15OCF	25.5	100	F37RS72X	OR107.54X3.53X
5	150X15.0	PSC80-150X15VCF	PSC80-150X15OCF	38.0	120	F37RS80X	OR129.77X3.53X
6	190X20.0	PSC96-190X20VCF	PSC96-190X20OCF	40.0	150	F37RS96X	OR164.47X5.33X
8	250X25.0	PSC128-250X25VCF	PSC128-250X25OCF	40.0	200	F37RS128X	OR215.27X5.33X
10	273X25.4	PSC160-273X25.4VCF	PSC160-273X25.4OCF	40.0	222	F37RS160SCHXXSX	OR234.34X5.33X

Other sizes on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free, F37-Seal	VCF	PSC40-80X10VCF
Stainless steel, F37-Seal	VSS	PSC40-80X10VSS
Steel, zinc plated, Cr(VI)-free, O-Ring (NBR)	OCF	PSC40-80X10OCF
Stainless steel, O-Ring (NBR)	OSS	PSC40-80X10OSS



Example of part combination Pipe seal carrier ISO 6164 connection

Flange pressure (bar)	Size Inch	Pipe Size	Flange	Retaining Ring	Pipe seal carrier
400	2	66X8.5	R-432-CFX	R32X	PSC32-66X8.5VCF
	2 1/2	80X10.0	R-440-CFX	R40X	PSC40-80X10VCF
	3	97X12.0	R-448-CFX	R48X	PSC48-97X12VCF
	4	115X15.0	R-464-CFX	R64X	PSC64-115X15VCF
350	4 1/2	130X15.0	R-872-CFX	R72X	PSC72-130X15VCF
	5	150X15.0	R-880-CFX	R80X	PSC80-150X15VCF
	6	190X20.0	R-896-CFX	R96X	PSC96-190X20VCF
250	8	250X25.0	R-8128-CFX	R128X	PSC128-250X25VCF
	10	273X25.4	R-8160273-CFX	R160X	PSC160-273X25.4VCF

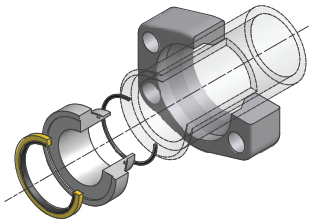
Other sizes on request

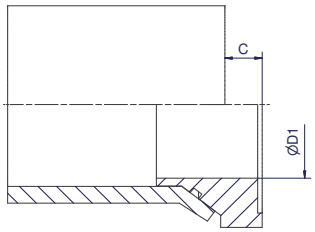
Bolts and nuts are not included in a complete part. For recommended bolts and nuts see page 181.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

TFB – Flare flange connection

Tube to port connection, bonded seal





Size		Flange* incl. Insert + Bonded Seal + O-Ring			Insert incl. Bonded Seal + O-Ring	Bonded Seal	O-Ring	Weight (Steel)
Inch	Tube	Order code	D1	C	Order code	Order code	Order code	kg/1kit
2	50X3.0	**F37-432-50X3.0TFBCF**	42	11	IN32-50X3.0TFBCF	BS32SNX	OR44.17X1.78X	2.02
2	50X5.0	**F37-432-50X5.0TFBCF**	38	10	IN32-50X5.0TFBCF	BS32SNX	OR41X1.78X	2.04
2	50X6.0	**F37-432-50X6.0TFBCF**	35	10	IN32-50X6.0TFBCF	BS32SNX	OR41X1.78X	2.07
2	60X3.0	**F37-432-60X3.0TFBCF**	46	12	IN32-60X3.0TFBCF	BS32SNX	OR53.7X1.78X	2.07
2	60X5.0	**F37-432-60X5.0TFBCF**	46	11	IN32-60X5.0TFBCF	BS32SNX	OR50.52X1.78X	2.04
2	60X6.0	**F37-432-60X6.0TFBCF**	46	11	IN32-60X6.0TFBCF	BS32SNX	OR47.37X1.78X	2.03
2 1/2	60X3.0	**F37-440-60X3.0TFBCF**	50	12	IN40-60X3.0TFBCF	BS40SNX	OR53.7X1.78X	3.35
2 1/2	60X5.0	**F37-440-60X5.0TFBCF**	46	11	IN40-60X5.0TFBCF	BS40SNX	OR50.52X1.78X	3.36
2 1/2	60X6.0	**F37-440-60X6.0TFBCF**	46	11	IN40-60X6.0TFBCF	BS40SNX	OR47.37X1.78X	3.34
2 1/2	73X7.0	**F37-440-73X7.0TFBCF**	56	13	IN40-73X7.0TFBCF	BS40SNX	OR63.22X1.78X	3.33
2 1/2	75X3.0	**F37-440-75X3.0TFBCF**	60	10	IN40-75X3.0TFBCF	BS40SNX	OR69.57X1.78X	3.30
2 1/2	75X5.0	**F37-440-75X5.0TFBCF**	60	10	IN40-75X5.0TFBCF	BS40SNX	OR63.22X1.78X	3.32
3	75X3.0	**F37-448-75X3.0TFBCF**	66	10	IN48-75X3.0TFBCF	BS48SNX	OR69.57X1.78X	5.83
3	75X5.0	**F37-448-75X5.0TFBCF**	62	10	IN48-75X5.0TFBCF	BS48SNX	OR63.22X1.78X	5.99
3	90X3.5	**F37-448-90X3.5TFBCF**	72	15	IN48-90X3.5TFBCF	BS48SNX	OR82.27X1.78X	6.00
3	90X5.0	**F37-448-90X5.0TFBCF**	72	14	IN48-90X5.0TFBCF	BS48SNX	OR79X1.78X	5.96
3	90X9.0	**F37-448-90X9.0TFBCF**	69	17	IN48-90X9.0TFBCF	BS48SNX	OR72.75X1.78X	5.91

Other sizes on request. *Incl. adapter sleeve or jump size flange if necessary.

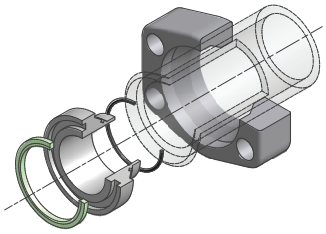
Please change suffixes according to material/surface required

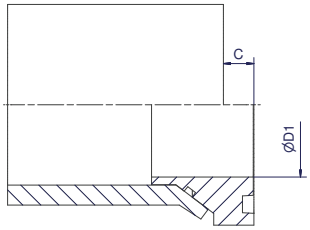
Order code suffixes			
Material	Suffix surface and material	Example	Comments
Steel, zinc plated, Cr(VI)-free	CF	IN24-50X5.0TFBCF	
Stainless steel	SS	IN24-50X5.0TFBSS	

Parflange® F37 – ISO 6164

TFV – Flare flange connection

Tube to port connection, F37 seal





Size		Flange* incl. Insert + F37 Seal + O-Ring Order code	D1	C	Insert incl. F37 Seal + O-Ring Order code	F37 Seal Order code	O-Ring Order code	Weight (Steel) kg/1 kit
Inch	Tube							
2	50X3.0	**F37-432-50X3.0TFVCF**	42	11	IN32-50X3.0TFVCF	F37S32X	OR44.17X1.78X	2.02
2	50X5.0	**F37-432-50X5.0TFVCF**	38	10	IN32-50X5.0TFVCF	F37S32X	OR41X1.78X	2.04
2	50X6.0	**F37-432-50X6.0TFVCF**	35	10	IN32-50X6.0TFVCF	F37S32X	OR41X1.78X	2.07
2	60X3.0	**F37-432-60X3.0TFVCF**	46	12	IN32-60X3.0TFVCF	F37S32X	OR53.7X1.78X	2.07
2	60X5.0	**F37-432-60X5.0TFVCF**	46	11	IN32-60X5.0TFVCF	F37S32X	OR50.52X1.78X	2.04
2	60X6.0	**F37-432-60X6.0TFVCF**	46	11	IN32-60X6.0TFVCF	F37S32X	OR47.37X1.78X	2.03
2 1/2	60X3.0	**F37-440-60X3.0TFVCF**	50	12	IN40-60X3.0TFVCF	F37S40X	OR53.7X1.78X	3.35
2 1/2	60X5.0	**F37-440-60X5.0TFVCF**	46	11	IN40-60X5.0TFVCF	F37S40X	OR50.52X1.78X	3.36
2 1/2	60X6.0	**F37-440-60X6.0TFVCF**	46	11	IN40-60X6.0TFVCF	F37S40X	OR47.37X1.78X	3.34
2 1/2	73X7.0	**F37-440-73X7.0TFVCF**	56	13	IN40-73X7.0TFVCF	F37S40X	OR63.22X1.78X	3.33
2 1/2	75X3.0	**F37-440-75X3.0TFVCF**	60	10	IN40-75X3.0TFVCF	F37S40X	OR69.57X1.78X	3.30
2 1/2	75X5.0	**F37-440-75X5.0TFVCF**	60	10	IN40-75X5.0TFVCF	F37S40X	OR63.22X1.78X	3.32
3	75X3.0	**F37-448-75X3.0TFVCF**	66	10	IN48-75X3.0TFVCF	F37S48X	OR69.57X1.78X	5.83
3	75X5.0	**F37-448-75X5.0TFVCF**	62	10	IN48-75X5.0TFVCF	F37S48X	OR63.22X1.78X	5.99
3	90X3.5	**F37-448-90X3.5TFVCF**	72	15	IN48-90X3.5TFVCF	F37S48X	OR82.27X1.78X	6.00
3	90X5.0	**F37-448-90X5.0TFVCF**	72	14	IN48-90X5.0TFVCF	F37S48X	OR79X1.78X	5.96
3	90X9.0	**F37-448-90X9.0TFVCF**	69	17	IN48-90X9.0TFVCF	F37S48X	OR72.75X1.78X	5.82

Other sizes on request. *Incl. adapter sleeve or jump size flange if necessary.

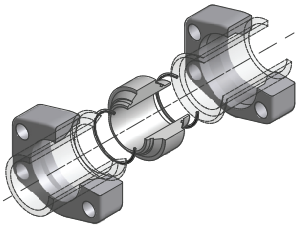
Please change suffixes according to material/surface required

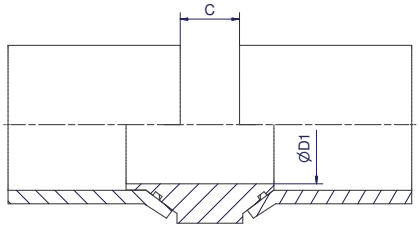
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	IN32-50X5.0TFVCF
Stainless steel	SS	IN32-50X5.0TFVSS

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TT – Flare Flange Connection

Tube to tube connection





Size		2 Flanges* incl. Insert + 2 x O-Ring			Insert incl. 2 x O-Ring	O-Ring	Weight (Steel)
Inch	Tube	Order code	D1	C	Order code	Order code	kg/1 kit
2	50X3.0	**F37-432-50X3.0TTCF**	42	22	IN32-50X3.0TTCF	OR44.17X1.78X	3.82
2	50X5.0	**F37-432-50X5.0TTCF**	38	20	IN32-50X5.0TTCF	OR41X1.78X	3.93
2	50X6.0	**F37-432-50X6.0TTCF**	35	20	IN32-50X6.0TTCF	OR41X1.78X	3.98
2	60X3.0	**F37-432-60X3.0TTCF**	46	24	IN32-60X3.0TTCF	OR53.7X1.78X	3.95
2	60X5.0	**F37-432-60X5.0TTCF**	46	22	IN32-60X5.0TTCF	OR50.52X1.78X	3.88
2	60X6.0	**F37-432-60X6.0TTCF**	46	22	IN32-60X6.0TTCF	OR47.37X1.78X	3.87
2 1/2	60X3.0	**F37-440-60X3.0TTCF**	50	24	IN40-60X3.0TTCF	OR53.7X1.78X	6.25
2 1/2	60X5.0	**F37-440-60X5.0TTCF**	46	22	IN40-60X5.0TTCF	OR50.52X1.78X	6.26
2 1/2	60X6.0	**F37-440-60X6.0TTCF**	45	22	IN40-60X6.0TTCF	OR47.37X1.78X	6.24
2 1/2	73X7.0	**F37-440-73X7.0TTCF**	56	26	IN40-73X7.0TTCF	OR63.22X1.78X	6.23
2 1/2	75X3.0	**F37-440-75X3.0TTCF**	60	20	IN40-75X3.0TTCF	OR69.57X1.78X	6.20
2 1/2	75X5.0	**F37-440-75X5.0TTCF**	60	20	IN40-75X5.0TTCF	OR63.22X1.78X	6.22
3	75X3.0	**F37-448-75X3.0TTCF**	66	20	IN48-75X3.0TTCF	OR69.57X1.78X	10.83
3	75X5.0	**F37-448-75X5.0TTCF**	62	20	IN48-75X5.0TTCF	OR63.22X1.78X	10.99
3	90X3.5	**F37-448-90X3.5TTCF**	72	30	IN48-90X3.5TTCF	OR82.27X1.78X	11.00
3	90X5.0	**F37-448-90X5.0TTCF**	72	28	IN48-90X5.0TTCF	OR79X1.78X	10.96
3	90X9.0	**F37-448-90X9.0TTCF**	69	34	IN48-90X9.0TTCF	OR72.75X1.78X	10.85

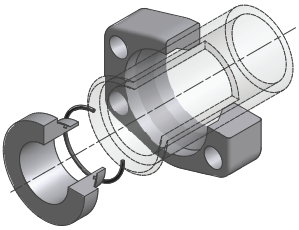
Other sizes on request. *Incl. adapter sleeve or jump size flange if necessary.

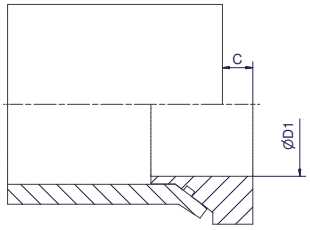
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	IN32-50X5.0TTCF
Stainless steel	SS	IN32-50X5.0TTSS

TF – Flare Flange Connection

Tube to port connection, flat face





Size		Flange* incl. Insert + O-Ring Order code	D1	C	Insert incl. O-Ring Order code	O-Ring Order code	Weight (Steel) kg/1 kit
Inch	Tube						
2	50X3.0	**F37-432-50X3.0TFCF**	42	11	IN32-50X3.0TFCF	OR44.17X1.78X	2.02
2	50X5.0	**F37-432-50X5.0TFCF**	38	10	IN32-50X5.0TFCF	OR41X1.78X	2.04
2	50X6.0	**F37-432-50X6.0TFCF**	35	10	IN32-50X6.0TFCF	OR41X1.78X	2.07
2	60X3.0	**F37-432-60X3.0TFCF**	46	12	IN32-60X3.0TFCF	OR53.7X1.78X	2.07
2	60X5.0	**F37-432-60X5.0TFCF**	46	11	IN32-60X5.0TFCF	OR50.52X1.78X	2.04
2	60X6.0	**F37-432-60X6.0TFCF**	46	11	IN32-60X6.0TFCF	OR47.37X1.78X	2.03
2 1/2	60X3.0	**F37-440-60X3.0TFCF**	50	12	IN40-60X3.0TFCF	OR53.7X1.78X	3.35
2 1/2	60X5.0	**F37-440-60X5.0TFCF**	46	11	IN40-60X5.0TFCF	OR50.52X1.78X	3.36
2 1/2	60X6.0	**F37-440-60X6.0TFCF**	46	11	IN40-60X6.0TFCF	OR47.37X1.78X	3.34
2 1/2	73X7.0	**F37-440-73X7.0TFCF**	56	13	IN40-73X7.0TFCF	OR63.22X1.78X	3.33
2 1/2	75X3.0	**F37-440-75X3.0TFCF**	60	10	IN40-75X3.0TFCF	OR69.57X1.78X	3.30
2 1/2	75X5.0	**F37-440-75X5.0TFCF**	60	10	IN40-75X5.0TFCF	OR63.22X1.78X	3.32
3	75X3.0	**F37-448-75X3.0TFCF**	66	10	IN48-75X3.0TFCF	OR69.57X1.78X	5.83
3	75X5.0	**F37-448-75X5.0TFCF**	62	10	IN48-75X5.0TFCF	OR63.22X1.78X	5.99
3	90X3.5	**F37-448-90X3.5TFCF**	72	15	IN48-90X3.5TFCF	OR82.27X1.78X	6.00
3	90X5.0	**F37-448-90X5.0TFCF**	72	14	IN48-90X5.0TFCF	OR79X1.78X	5.96
3	90X9.0	**F37-448-90X9.0TFCF**	69	17	IN48-90X9.0TFCF	OR72.75X1.78X	5.82

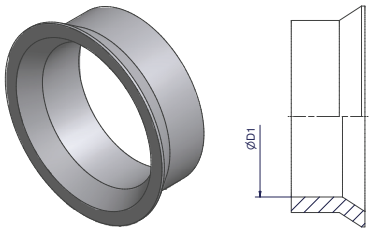
Other sizes on request. *Incl. adapter sleeve or jump size flange if necessary.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	IN32-50X5.0TFCF
Stainless steel	SS	IN32-50X5.0TFSS

SL – Sleeve

ISO 6164



Size Inch	Tube OD	Order code	D1	Weight body (Steel) kg/1 piece
2	50	**SL32-60-50-CFX**	50.30	0.16
2 1/2	60	**SL40-75-60-CFX**	60.45	0.36
3	75	**SL48-90-75-CFX**	75.45	0.52

Please change suffixes according to material/surface required

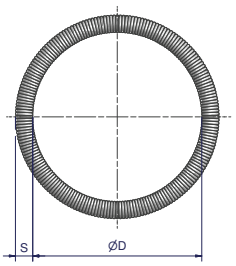
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	SL24-50-42-CFX
Stainless steel	SS	SL24-50-42-SSX

R – Retaining ring

ISO 6164

Size Inch	Tube	Order code	D	S
2	66X8.5	**R32X**	61.3	5.0
2 1/2	80X10.0	**R40X**	75.3	5.0
3	97X12.0	**R48X**	91.3	6.0
4	115X15.0	**R64X**	107.3	8.0
4 1/2	130x15.0	**R72X**	122.3	8.0
5	150X15.0	**R80X**	142.3	8.0
6	190x20.0	**R96X**	180.3	10.0
8	250X25.0	**R128X**	238.3	12.0
10	273X25.0	**R160X**	261.4	12.0

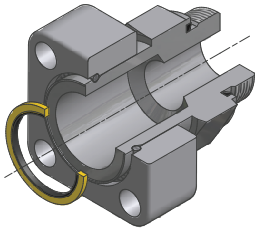
Material: Stainless steel

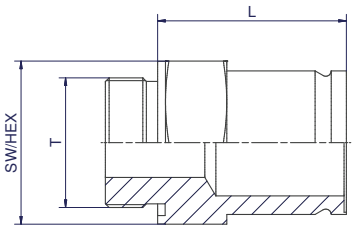


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MTF-R – Male thread adapter, BSPP

ISO 6164





Size Inch	Tube	Complete part Order code	Body incl. ED Seal Order code	L	T (BSPP)	SW/ HEX	Weight body (Steel) kg/1 piece
2	66X8.5	**R-432MTFRCF**	MTF32ROMDCF	104.0	G 2 A	75	1.90
2	66X8.5	**R-440MTFR112CF**	MTFR32R112OMDCF	103.5	G 1 1/2 A	75	1.80
2 1/2	80X10.0	**R-440MTFRCF**	MTFR40ROMDCF	134.0	G 2 1/2 A	85	3.50
2 1/2	80X10.0	**R-440MTFR2CF**	MTFR40R2OMDCF	136.0	G 2 A	85	3.50
3	97X12.0	**R-448MTFRCF**	MTFR48ROMDCF	145.0	G 3 A	95	5.00

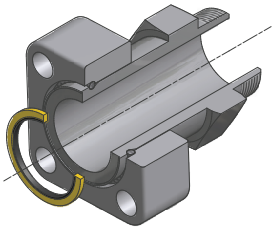
Other sizes on request.

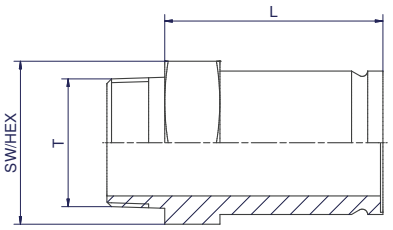
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-432MTFRCF
Stainless steel	SS	R-432MTFRSS

MTF-N – Male thread adapter, NPT

ISO 6164





Size Inch	Tube	Complete part Order code	Body incl. ED Seal Order code	L	T (NPT)	SW/ HEX	Weight body (Steel) kg/1 piece
2	66X8.5	**R-432MTFNCF**	MTF32NCFX	100.4	2-11.5	75	2.40
2 1/2	80X10.0	**R-440MTFNCF**	MTF40NCFX	130.0	2 1/2-8	85	3.40
3	97X12.0	**R-448MTFNCF**	MTF48NCFX	141.2	3-8	95	4.90

Other sizes on request.

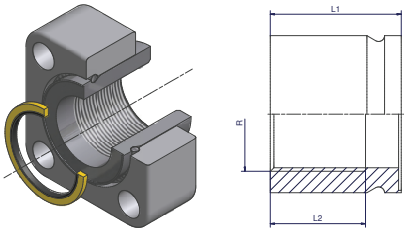
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-432MTFNCF
Stainless steel	SS	R-432MTFNSS

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FTF-R – Female thread adapter, BSPP

ISO 6164



Size Inch	Tube	Complete part Order code	Body Order code	L1	L2	R (BSPP)	Weight body (Steel) kg/1 piece
2	66X8.5	**R-432FTFRCF**	FTF32RCFX	55	40	G 1 1/2	0.75
2 1/2	80X10.0	**R-440FTFRCF**	FTF40RCFX	80	40	G 2	1.52
3	97X12.0	**R-448FTFRCF**	FTF48RCFX	85	50	G 2 1/2	2.11

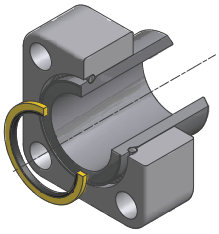
Other sizes on request.

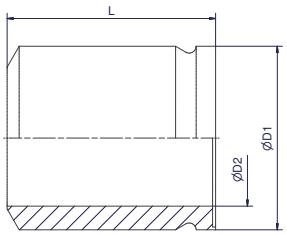
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-432FTFRCF
Stainless steel	SS	R-432FTFRSS

WA – Weld adapter connection

ISO 6164





Size Inch	Tube	Complete Part Order code	Retaining Ring	Bonded Seal	Flange Order code	Weld Adapter Body Order code	D1	D2	L	Weight (Steel) kg/1 kit
2	48.3X5.6	**R-432WA-48.3X5.6S**	R32X	BS32SNX	R-432-CFX	WA32-48.3X5.6SX	66	37	90	2.90
2	50X9.0	**R-432WA-50X9.0S**	R32X	BS32SNX	R-432-CFX	WA32-50X9.0SX	66	32	90	3.11
2	60X3.0	**R-432WA-60X3.0S**	R32X	BS32SNX	R-432-CFX	WA32-60X3.0SX	66	49	90	2.39
2	60X5.0	**R-432WA-60X5.0S**	R32X	BS32SNX	R-432-CFX	WA32-60X5.0SX	66	50	90	2.49
2	60X6.0	**R-432WA-60X6.0S**	R32X	BS32SNX	R-432-CFX	WA32-60X6.0SX	66	48	90	2.60
2	60X8.0	**R-432WA-60X8.0S**	R32X	BS32SNX	R-432-CFX	WA32-60X8.0SX	66	44	90	2.78
2	60X10.0	**R-432WA-60X10.0S**	R32X	BS32SNX	R-432-CFX	WA32-60X10.0SX	66	40	90	2.96
2	60.3X2.8	**R-432WA-60.3X2.8S**	R32X	BS32SNX	R-432-CFX	WA32-60.3X2.8SX	66	49	90	2.37
2	60.3X3.9	**R-432WA-60.3X3.9S**	R32X	BS32SNX	R-432-CFX	WA32-60.3X3.9SX	66	49	90	2.45
2	60.3X5.5	**R-432WA-60.3X5.5S**	R32X	BS32SNX	R-432-CFX	WA32-60.3X5.5SX	66	49	90	2.54
2	60.3X8.7	**R-432WA-60.3X8.7S**	R32X	BS32SNX	R-432-CFX	WA32-60.3X8.7SX	66	43	90	2.84
2	60.3X11.1	**R-432WA-60.3X11.1S**	R32X	BS32SNX	R-432-CFX	WA32-60.3X11.1SX	66	38	90	3.04
2	66X8.5	**R-432WA-66X8.5S**	R32X	BS32SNX	R-432-CFX	WA32-66X8.5SX	66	49	75	2.45
2 1/2	65X8.0	**R-440WA-65X8.0S**	R40X	BS40SNX	R-440-CFX	WA40-65X8.0SX	80	49	105	5.10
2 1/2	65X8.5	**R-440WA-65X8.5S**	R40X	BS40SNX	R-440-CFX	WA40-65X8.5SX	80	59	105	4.59
2 1/2	73X7.0	**R-440WA-73X7.0S**	R40X	BS40SNX	R-440-CFX	WA40-73X7.0SX	80	59	105	4.20
2 1/2	75X5.0	**R-440WA-75X5.0S**	R40X	BS40SNX	R-440-CFX	WA40-75X5.0SX	80	60	105	4.37
2 1/2	76.1X6.3	**R-440WA-76.1X6.3S**	R40X	BS40SNX	R-440-CFX	WA40-76.1X6.3SX	80	60	105	4.45
2 1/2	76.1X12.5	**R-440WA-76.1X12.5S**	R40X	BS40SNX	R-440-CFX	WA40-76.1X12.5SX	80	51	105	5.17
2 1/2	80X10.0	**R-440WA-80X10.0S**	R40X	BS40SNX	R-440-CFX	WA40-80X10.0SX	80	60	90	4.40
3	76.1X12.5	**R-448WA-76.1X12.5S**	R48X	BS48SNX	R-448-CFX	WA48-76.1X12.5SX	97	51	120	8.18
3	80X10.0	**R-448WA-80X10.0S**	R48X	BS48SNX	R-448-CFX	WA48-80X10.0SX	97	60	120	8.07
3	88.9X3.1	**R-448WA-88.9X3.1S**	R48X	BS48SNX	R-448-CFX	WA48-88.9X3.1SX	97	73	120	7.18
3	88.9X5.5	**R-448WA-88.9X5.5S**	R48X	BS48SNX	R-448-CFX	WA48-88.9X5.5SX	97	73	120	7.47
3	88.9X7.7	**R-448WA-88.9X7.7S**	R48X	BS48SNX	R-448-CFX	WA48-88.9X7.7SX	97	74	120	7.67
3	88.9X8.8	**R-448WA-88.9X8.8S**	R48X	BS48SNX	R-448-CFX	WA48-88.9X8.8SX	97	71	120	7.90
3	88.9X11.1	**R-448WA-88.9X11.1S**	R48X	BS48SNX	R-448-CFX	WA48-88.9X11.1SX	97	67	120	8.34
3	88.9X12.5	**R-448WA-88.9X12.5S**	R48X	BS48SNX	R-448-CFX	WA48-88.9X12.5SX	97	64	120	8.60
3	88.9X15.2	**R-448WA-88.9X15.2S**	R48X	BS48SNX	R-448-CFX	WA48-88.9X15.2SX	97	59	120	9.00
3	90X3.5	**R-448WA-90X3.5S**	R48X	BS48SNX	R-448-CFX	WA48-90X3.5SX	97	73	120	7.19
3	90X5.0	**R-448WA-90X5.0S**	R48X	BS48SNX	R-448-CFX	WA48-90X5.0SX	97	73	120	7.50
3	90X9.0	**R-448WA-90X9.0S**	R48X	BS48SNX	R-448-CFX	WA48-90X9.0SX	97	72	120	7.85
3	97X12.0	**R-448WA-97X12.0S**	R48X	BS48SNX	R-448-CFX	WA48-97X12.0SX	97	73	110	7.65
4	100X4.0	**R-464WA-100X4.0S**	R64X	BS64SNX	R-464-CFX	WA64-100X4.0SX	115	85	130	13.44
4	101.6X8.1	**R-464WA-101.6X8.1S**	R64X	BS64SNX	R-464-CFX	WA64-101.6X8.1SX	115	85	130	12.49
4	101.6X16.0	**R-464WA-101.6X16.0S**	R64X	BS64SNX	R-464-CFX	WA64-101.6X16.0SX	115	85	120	13.73
4	114.3X4.5	**R-464WA-114.3X4.5S**	R64X	BS64SNX	R-464-CFX	WA64-114.3X4.5SX	115	80	120	14.40
4	114.3X12.5	**R-464WA-114.3X12.5S**	R64X	BS64SNX	R-464-CFX	WA64-114.3X12.5SX	115	85	120	12.37
4	114.3X17.1	**R-464WA-114.3X17.1S**	R64X	BS64SNX	R-464-CFX	WA64-114.3X17.1SX	115	85	120	13.90
4	115X4.0	**R-464WA-115X4.0S**	R64X	BS64SNX	R-464-CFX	WA64-115X4.0SX	115	85	120	12.36
4	115X15.0	**R-464WA-115X15.0S**	R64X	BS64SNX	R-464-CFX	WA64-115X15.0SX	115	85	120	13.87
4 1/2	130X15.0	**R-872WA-130X15.0S**	R72X	BS72SNX	R-872-CFX	WA72-130X15SX	130	100	125	14.02
5	150X15.0	**R-880WA-150X15.0S**	R80X	BS80SNX	R-880-CFX	WA80-150X15SX	150	120	110	18.55
6	190x20.0	**R-896WA-190X20.0FS**	R96X	PSC96-190x20CFX	R-896-CFX	WA96-190x20.0SX	190	150	175	32.70

Other sizes on request.

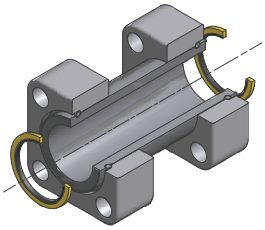
Please change suffixes according to material/surface required

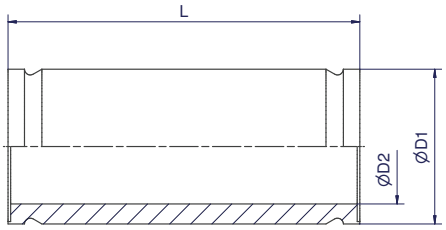
Order code suffixes		
Material	Suffix surface and material	Example
Steel	S	R-432WA-66X8.5S
Stainless steel	SS	R-432WA-66X8.5SS

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BF – Bulkhead flange

ISO 6164





Size Inch	Complete Part Order code	Bulkhead Body Order code	D1	D2	L	Weight body (Steel) kg/1 piece
2	**R-432BFS**	BF32SX	66	49	210	2.45
2 1/2	**R-440BFS**	BF40SX	80	60	220	3.70
3	**R-448BFS**	BF48SX	97	73	240	7.85
4	**R-464BFS**	BF64SX	115	85	260	9.35
5	**R-880BFS**	BF80SX	150	120	260	10.53

Other sizes on request.

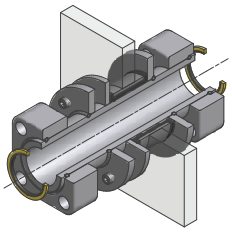
Please change suffixes according to material/surface required

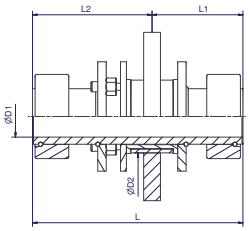
Order code suffixes		
Material	Suffix surface and material	Example
Steel	S	R-432BFS
Stainless steel	SS	R-432BFSS

Parflange® F37 – ISO 6164

VB – Vibra bulkhead

ISO 6164





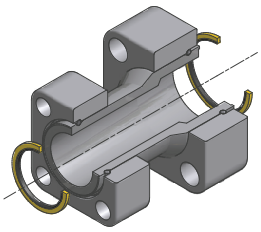
Size Inch	Tube	Complete Part Order code	D1	D2	L	L1	L2	Weight (Steel) kg/1 piece
2	66X8.5	**R-432VBCF**	66	86.5	250	110	140	6.52
2 1/2	80X10.0	**R-440VBCF**	80	100.5	260	115	145	9.32
3	97X12.0	**R-448VBCF**	97	117.5	280	125	155	16.12
4	115X15.0	**R-464VBCF**	115	135.5	300	135	165	27.62

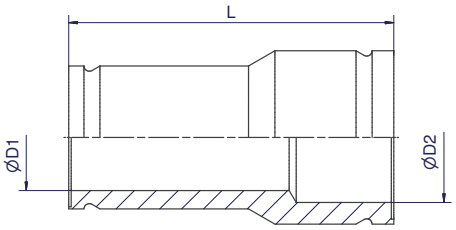
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-432VBCF
Stainless steel	SS	R-432VBSS

RF – Reducer flange

ISO 6164





Size Inch	Complete Part Order code	Reducer Body Order code	D1	D2	L	Weight body (Steel) kg/1 piece
2 1/2 - 2	**R-440-432RFCF**	**RF40-32CFX**	49	60	150	2.2
3 - 2	**R-448-432RFCF**	**RF48-32CFX**	49	73	180	3.4
3 - 2 1/2	**R-448-440RFCF**	**RF48-40CFX**	60	73	180	3.7
4 - 3	**R-464-448RFCF**	**RF64-48CFX**	73	85	200	6.1
5 - 3	**R-880-448RFCF**	**RF80-48CFX**	73	120	200	8.0
5 - 4	**R-880-464RFCF**	**RF80-64CFX**	85	120	220	10.3
6 - 5	**R-896-880RFCF**	**RF96-80CFX**	120	150	250	18.3

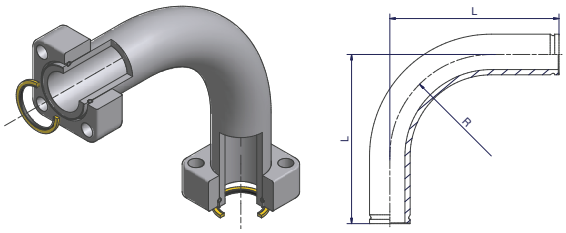
Other sizes on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-432-424RFCF
Stainless steel	SS	R-432-424RFSS

FB90 – 90° Flange bend

ISO 6164



Size Inch	Tube	Complete Part Order code	90° Flange Bend Order code	L	R	Weight body (Steel) kg/1 piece
2	66X8.5	**R-432FB90S**	**FB90-32SX**	275	165	5.72
2 1/2	80X10.0	**R-440FB90S***	**FB90-40SX***	370	200	11.20
3	97X12.0	**R-448FB90S***	**FB90-48SX***	450	243	19.90

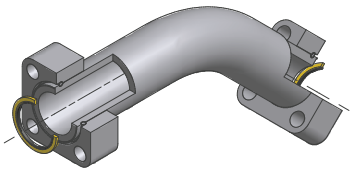
*only available as Steel version

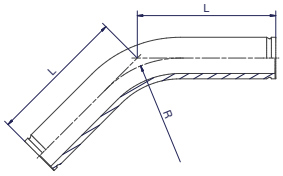
Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Comments
Steel, zinc plated, Cr(VI)-free	CF	R-432FB90CF	
Steel	S	R-432FB90S	
Stainless steel	SS	R-432FB90SS	on request

FB45 – 45° Flange bend

ISO 6164





Size Inch	Tube	Complete Part Order code	45° Flange Bend Order code	L	R	Weight body (Steel) kg/1 piece
2	66X8.5	**R-432FB45S**	**FB45-32SX**	220	165	5.16
2 1/2	80X10.0	**R-440FB45S***	**FB45-40SX***	240	200	8.07
3	97X12.0	**R-448FB45S***	**FB45-48SX***	260	243	12.70

Available on request.
*only available as Steel version

Please change suffixes according to material/surface required

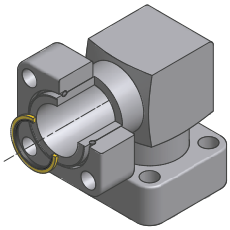
Order code suffixes			
Material	Suffix surface and material	Example	Comments
Steel, zinc plated, Cr(VI)-free	CF	R-432FB45CF	
Steel	S	R-432FB45S	
Stainless steel	SS	R-432FB45SS	on request

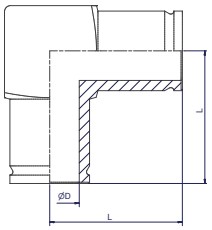
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LF – Elbow flange

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Size Inch	Complete Part Order code	Elbow Flange body Order code	D	L	Weight body (Steel) kg/1 piece
2	**R-432LFCF**	**LF32CFX**	49	110	4.02
2 1/2	**R-440LFCF**	**LF40CFX**	60	130	5.79
3	**R-448LFCF**	**LF48CFX**	73	160	10.76

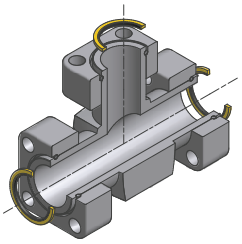
Please change suffixes according to material/surface required

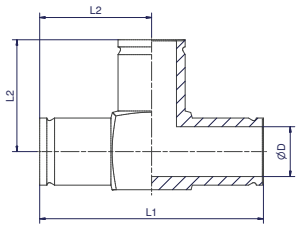
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-432LFCF
Stainless steel	SS	R-432LFSS

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TF – TEE flange

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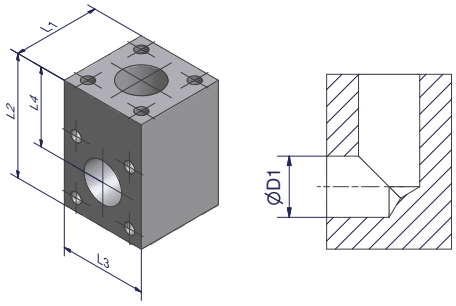
Size Inch	Complete Part Order code	Tee Flange body Order code	D	L1	L2	Weight body (Steel) kg/1 piece
2	**R-432TFCF**	**TF32CFX**	49	220	110	4.53
2 1/2	**R-440TFCF**	**TF40CFX**	60	260	130	8.70
3	**R-448TFCF**	**TF48CFX**	73	320	160	12.81

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	R-432TFCF
Stainless steel	SS	R-432TFSS

LB – Flange L-block

ISO 6164



Size Inch	Order code	D1	L1	L2	L3	L4	Weight (Steel) kg/1 piece
2	**LB432CFX**	49	100	140	100	90	8.72
2 1/2	**LB440CFX**	60	120	160	120	100	14.10
3	**LB448SX**	73	150	200	150	125	28.10
4	**LB464SX**	99	180	240	180	150	48.80
5	**LB880SX***	120	260	300	260	170	131.65
6	**LB896SX***	150	300	360	300	210	203.00

Other sizes on request.
Blocks only for use with F37 Components

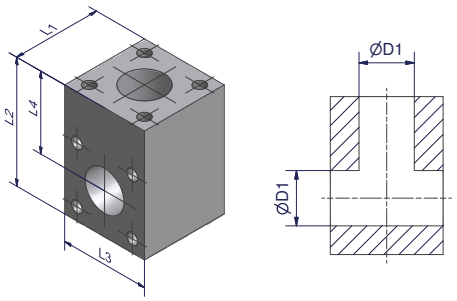
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	LB432CFX *not in CF available
Steel	S	LB432SX
Stainless steel	SS	LB432SSX

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TB – Flange T-block

ISO 6164



Size Inch	Order code	D1	L1	L2	L3	L4	Weight (Steel) kg/1 piece
2	**TB432CFX**	49	100	140	100	90	8.03
2 1/2	**TB440CFX**	60	120	160	120	100	12.90
3	**TB448SX**	73	150	200	150	125	25.80
4	**TB464SX**	85	180	240	180	150	40.70
4 1/2	**TB872SX**	100	220	250	220	140	74.00
5	**TB880SX***	120	260	300	260	170	122.00
6	**TB896SX***	150	300	360	300	210	186.00

Other sizes on request.
Blocks only for use with F37 Components

Please change suffixes according to material/surface required

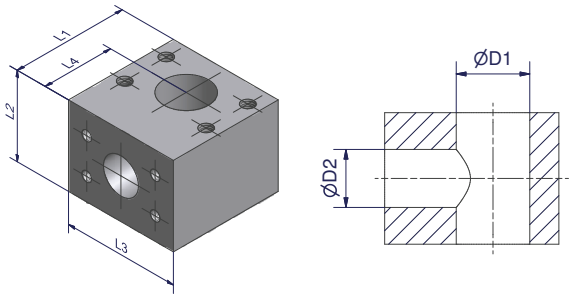
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	TB432CFX *not in CF available
Steel	S	TB432SX
Stainless steel	SS	TB432SSX

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TBR – Flange T-block reducer

ISO 6164



Size Inch	Order code	D1	D2	L1	L2	L3	L4	Weight (Steel) kg/1 piece
2 1/2 - 2	**TBR440-432-440CFX**	60	49	150	100	120	90	10.2
3 - 2 1/2	**TBR448-440-448CFX**	73	60	185	120	150	110	19.2
3 - 2	**TBR448-432-448CFX**	73	49	175	100	150	100	15.2
4 - 3	**TBR464-448-464SX**	85	73	225	180	180	135	35.2
4 - 2 1/2	**TBR464-440-464SX**	85	60	215	120	180	125	26.9
4 - 2	**TBR464-432-464SX**	85	49	200	100	180	110	21.0

Other sizes on request.
Bkocks only for use with F37 Components

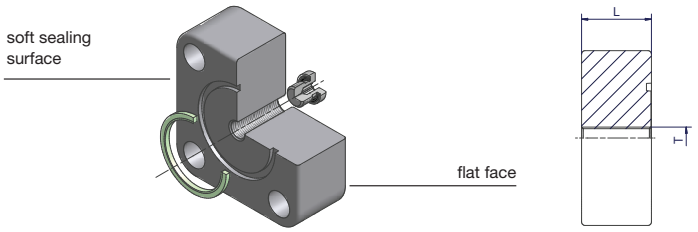
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	TBR448-432-448CFX
Steel	S	TBR448-432-448SX
Stainless steel	SS	TBR448-432-448SSX

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BFV – Blind flange

ISO 6164



Size Inch	Flange incl. VSTI-ED and Soft Seal Order code	L	T	Weight (Steel) kg/1 piece
2	**F37-432BFVCF**	40.0	G 1/4	2.75
2 1/2	**F37-440BFVCF**	50.0	G 1/4	4.90
3	**F37-448BFVCF**	52.0	G 1/4	8.15
4	**F37-464BFVCF**	70.0	G 1/4	11.55
4 1/2	**F37-872BFVCF**	60.0	G 1/4	15.41
5	**F37-880BFVCF**	50.0	G 1/4	16.74
6	**F37-896BFVCF**	80.0	G 1/4	39.95
8	**F37-8128BFVCF**	92.0	G 1/4	76.87
10	**F37-8160BFVCF**	90.0	G 1/4	102.43

Other sizes on request.

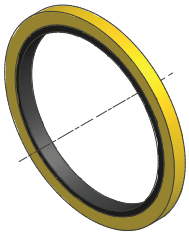
Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	F37-432BFVCF
Stainless steel	SS	F37-432BFVSS

Parflange® F37 – ISO 6164

BS – Bonded seal

ISO 6164

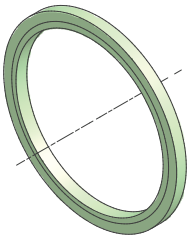


Size Inch	Steel	Stainless Steel
2	**BS32SNX**	**BS32SSNX**
2 1/2	**BS40SNX**	**BS40SSNX**
3	**BS48SNX**	**BS48SSNX**
4	**BS64SNX**	**BS64SSNX**
4 1/2	**BS72SNX**	**BS72SSNX**
5	**BS80SNX**	**BS80SSNX**

Sealing: NBR
Other sealing materials like FKM on request.

F37S/F37RS – F37 Seal

ISO 6164

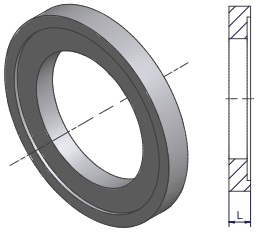


Size Inch	F37S (F37 seal for flaring system)	F37RS (F37 seal for retaining ring system)
2	**F37S32X**	**F37RS32X**
2 1/2	**F37S40X**	**F37RS40X**
3	**F37S48X**	**F37RS48X**
4	-	**F37RS64X**
4 1/2	-	**F37RS72X**
5	-	**F37RS80X**
6	-	**F37RS96X**
8	-	**F37RS128X**
10	-	**F37RS160SCHXXSX**

Other sizes on request.
Sealing: Polyurethane
Material properties and applications see page 20.

AO – Adapter bonded seal/F37 seal/O-Ring

ISO 6164



Size Inch	Adapter* Order code	L	Weight (Steel) kg/1 piece
2	**AO32CFX**	7	0.10
2 1/2	**AO40CFX**	7	0.14
3	**AO48CFX**	7	0.20
4	**AO64CFX**	7	0.35
4 1/2	**AO72CFX**	7	0.30
5	**AO80CFX**	7	0.32

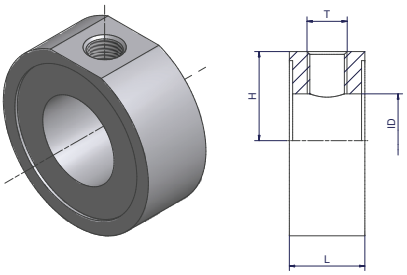
*Part excluding seals.
For assembling add L to the corresponding bolt length.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	AO32CFX
Stainless steel	SS	AO32SSX

TBT – Tee between bonded seal

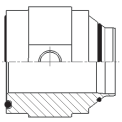
ISO 6164



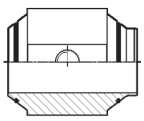
Size Inch	Order code	L	H	T	ID	Weight (Steel) kg/1 piece
2	**TBT32-1/4CFX**	25	35	G 1/4	41	0.51
2	**TBT32-1/2CFX**	40	34	G 1/2	38	0.87
2 1/2	**TBT40-1/4CFX**	30	42	G 1/4	60	0.63
3	**TBT48-1/4CFX**	30	50	G 1/4	72	0.90

*Part excluding seals.
For testpoints and diagnostic test equipment see catalogue 4100, Industrial Tube Fittings Europe.
For assembling add L to the corresponding bolt length.

Alternative versions on request.



TFVB



TTB

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	TBT32-1/2CFX
Stainless steel	SS	TBT32-1/2SSX

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Bolts and nuts for flange

ISO 6164



F37 Flare Flange

Size Inch	Flange	F37 Seal / Flat Face / Bonded Seal		Nut
		Recommended bolts Tube to Port	Recommended bolts Tube to Tube	
2	F37-432-CFX	4 x ZYLS16X65	4 x ZYLS16X110	4 x ISO4032-M16
2 1/2	F37-440-CFX	4 x ZYLS20X80	4 x ZYLS20X140	4 x ISO4032-M20
3	F37-448-CFX	4 x ZYLS24X90	4 x ZYLS24X150	4 x ISO4032-M24

Retaining Ring Flange

Size Inch	Flange	Flat Face / Bonded Seal		Pipe Seal Carrier (PSC)		Nut
		Recommended bolts Tube to Port	Recommended bolts Tube to Tube	Recommended bolts Tube to Port	Recommended bolts Tube to Tube	
2	R-432-CFX	4 x ZYLS16X65	4 x ZYLS16X110	4 x ZYLS16X75	4 x ZYLS16X130	4 x ISO4032-M16
2 1/2	R-440-CFX	4 x ZYLS20X80	4 x ZYLS20X140	4 x ZYLS20X95	4 x ZYLS20X150	4 x ISO4032-M20
3	R-448-CFX	4 x ZYLS24X90	4 x ZYLS24X150	4 x ZYLS24X100	4 x ZYLS24X160	4 x ISO4032-M24
4	R-464-CFX	4 x ZYLS30X120	4 x ZYLS30X190	4 x ZYLS30X130	4 x ZYLS30X200	4 x ISO4032-M30
4 1/2	R-872-CFX	8 x ZYLS20X90	8 x ZYLS20X160	8 x ZYLS20X115	8 x ZYLS20X190	8 x ISO4032-M20
5	R-880-CFX	8 x ZYLS24X110	8 x ZYLS24X190	8 x ZYLS24X145	8 x ZYLS24X220	8 x ISO4032-M24
6	R-896-CFX	-	-	8 x ZYLS30X155	8 x ZYLS30X230	8 x ISO4032-M30
8	R-8128-CFX	-	-	8 x ZYLS36X180	8 x ZYLS36X260	8 x ISO4032-M36
10	R-8160273-CFX	-	-	12 x ZYLS36X170	12 x ZYLS36X250	12 x ISO4032-M36

Bolts and nuts are not included in complete part numbers.

Latest information about nuts and bolts see www.parker.com/hpce -> Support -> Literature and Reference Materials -> Manuals

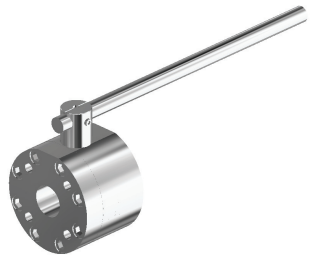
Please add the suffixes according to the bolt quality

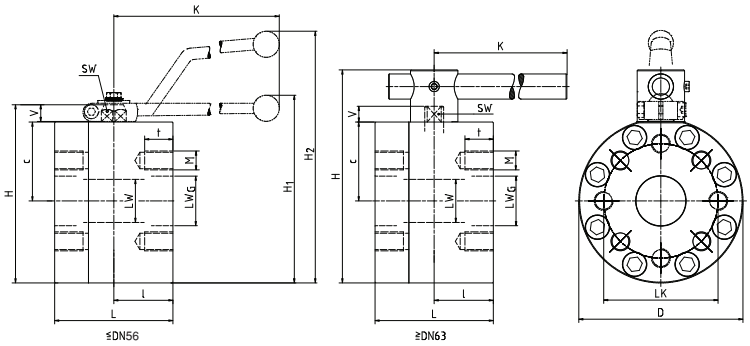
	Steel		Stainless Steel
Grade	8.8	10.9	A4-80X
Bolt	ZYLS16X60VZX	ZYLS16X60109X	ZYLS16X60A4-80X
Nut	ISO4032-M12-8VZX	ISO4032-M12-10X	ISO4032-M12-80X

Bolt grade 10.9 recommended.
Bolt grade 8.8 can affect the pressure capability.

KH – Ball valve drilled and tapped for ISO 6164 flanges

ISO 6164





Material Steel

Size Inch	Order Code	DN	LW	LWG	L	l	D	H	c	V	K	SW	LK	M	t	H2	Material Code	Lever	Weight kg	W.P. bar
2	**KH432-48CF**	50	48	43	123	58	198	210	94	17	306	17	98	4x M16	25.5	283	**212A**	St	24.90	400
2 1/2	**KH440-48CF**	56	48	53	123	58	198	210	94	17	306	17	118	4x M20	31.0	283	**212A**	St	26.60	400
3	**KH448-63CF**	65	65	63	150	75	208	270	100	20	600	16	145	4x M24	36.0	-	**282A**	St	36.00	350
4	**KH464-76CF**	80	76	76	170	78	258	315	115	26	600	19	175	4x M30	35.0	-	**282A**	St	63.00	400
4	**KH464-88CF**	90	100	86	170	85	260	327	122	26	900	24	175	4x M30	31.0	-	**282A**	St	61.00	350
4 1/2	**KH872-100CF**	100	100	100	170	85	260	327	122	26	900	24	175	8x M20	33.0	-	**282A**	St	70.00	350
5	**KH880-118CF**	125	118	118	210	105	300	380	140	32	900	36	205	8x M24	34.0	-	**282A**	St	99.00	350
6	**KH896-150CF**	150	150	150	285	130	390	475	190	32	900	36	245	8x M30	46.0	-	**282A**	St	225.00	350
8	**KH8128-200CF**	200	192	200	378	150	456	598	223	61	940	46	315	8x M36	55.0	-	**242A**	St	395.00	350

Other sizes on request.

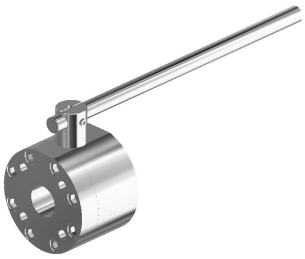
Please change suffixes according to material/surface required

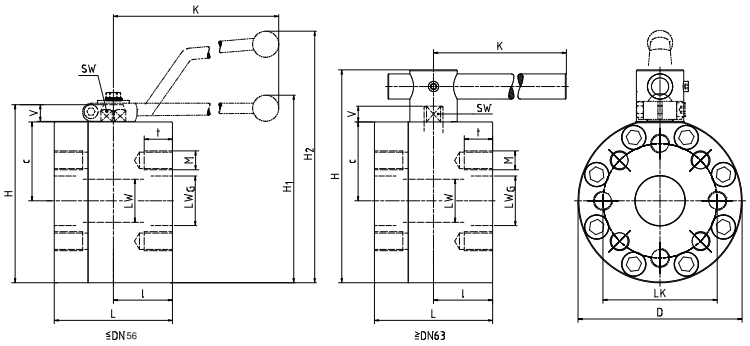
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	KH432-48CF

	Material		
	212A	282A	242A
Body	Steel	Steel	Steel
Ball	Steel	Steel	Stainless Steel
Stem	Steel	Stainless Steel	Stainless Steel
Ball seats	POM	POM	POM
O-Ring	NBR	NBR	NBR
Tmin / T max	-10°C / 100°C	-10°C / 100°C	-10°C / 100°C

KH – Ball valve drilled and tapped for ISO 6164 flanges

ISO 6164





Material Stainless Steel

Size Inch	Order Code	DN	LW	LWG	L	l	D	H	c	V	K	SW	LK	M	t	H1	Lever	Weight kg	W.P. bar
2	**KH432-48SS**	50	48	43	123	58	198	210	94	17	320	17	98	4x M16	25.5	219	Al	24.90	400
2 1/2	**KH440-48SS**	56	48	53	123	58	198	210	94	17	320	17	118	4x M20	31.0	219	Al	26.60	400
3	**KH448-63SS**	65	65	63	150	75	208	270	100	20	600	16	145	4x M24	36.0	-	St	36.00	350
4	**KH464-76SS**	80	76	76	170	78	258	315	115	26	600	19	175	4x M30	35.0	-	St	63.00	400
4	**KH464-88SS**	90	100	86	170	85	260	327	122	26	900	24	175	4x M30	31.0	-	St	61.00	350
4 1/2	**KH872-100SS**	100	100	100	170	85	260	327	122	26	900	24	175	8x M20	33.0	-	St	70.00	350
5	**KH880-118SS**	125	118	118	210	105	300	380	140	32	900	36	205	8x M24	34.0	-	St	99.00	350
6	**KH896-132SS***	150	150	132	285	130	390	475	190	32	900	36	245	8x M30	46.0	-	St	225.00	350
6	**KH896-150SS**	150	150	150	285	130	390	475	190	32	900	36	245	8x M30	46.0	-	St	225.00	350
8	**KH8128-200SS***	200	192	200	378	150	456	598	223	61	940	46	315	8x M36	55.0	-	St	395.00	350

Other sizes on request.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Stainless steel	SS	KH432-48SS

	Material 442A
Body	Stainless Steel
Ball	Stainless Steel
Stem	Stainless Steel
Ball seats	POM
O-Ring	NBR
Tmin / T max	-30°C / 100°C

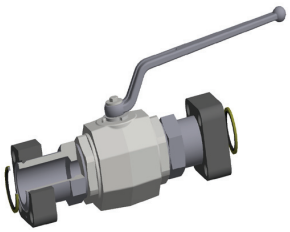
*For these ball valves Tmin / Tmax = -10°C / 100°C

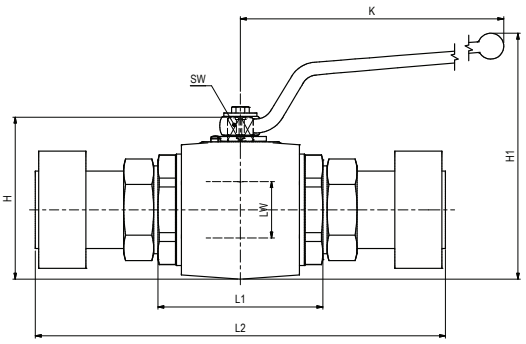
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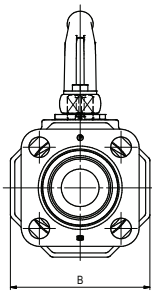
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KH-R – Ball valve with ISO 6164 flanges

ISO 6164



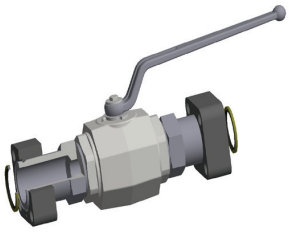


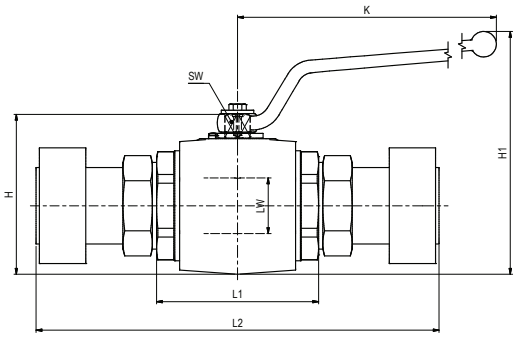


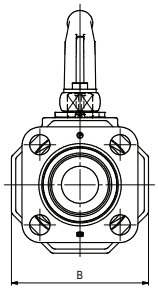
Material Steel

Size Inch	Complete part Order code	Valve body Order code	LW	L1	L2	B	H	SW	K	H1	Weight (Steel) kg/1 kit	W.P. bar
2	**KH-R-432-48CF**	KH-R-32-48CF	48	140	348.0	118	138	17	306	210	15.2	400

Other sizes on request.







Material Stainless Steel

Size Inch	Complete part Order code	Valve body Order code	LW	L1	L2	B	H	SW	K	H1	Weight (Steel) kg/1 kit	W.P. bar
2	**KH-R-432-48SS**	KH-R-32-48SS	48	140	348.0	132	145	17	306	217	17.3	400

Other sizes on request.

Please change suffixes according to material/surface required

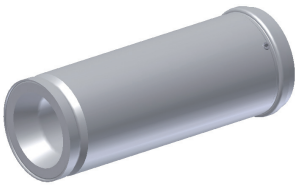
Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	KH-R-432-48CF
Stainless steel	SS	KH-R-432-48SS

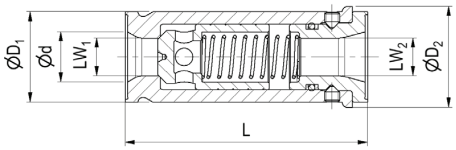
	Material 112A	Material 442A
Body	Steel	Stainless Steel
Ball	Steel	Stainless Steel
Stem	Steel	Stainless Steel
Ball seats	POM	POM
O-Ring	NBR	NBR
Tmin / T max	-20°C / 100 °C	-30°C / 100°C

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RHD-R – Non return valves

ISO 6164





Size Inch	Complete part Order code	Valve body Order code	L	D1	D2	d	LW1	LW2	Weight body (Steel) kg/1 piece	W.P. bar
2	**RHD-R-432-0.5BCF**	RHD-R-32-0.5BCF	180.1	66	70.5	49	40	36.4	2.54	420

Opening pressure 0.5 bar.
Other pressure rates on request.
Complete Part = body + flanges + retaining rings + bonded seals.

Please change suffixes according to material/surface required

Order code suffixes		
Material	Suffix surface and material	Example
Steel, zinc plated, Cr(VI)-free	CF	RHD-R-432-0.5BCF
Stainless steel	SS	RHD-R-432-0.5BSS

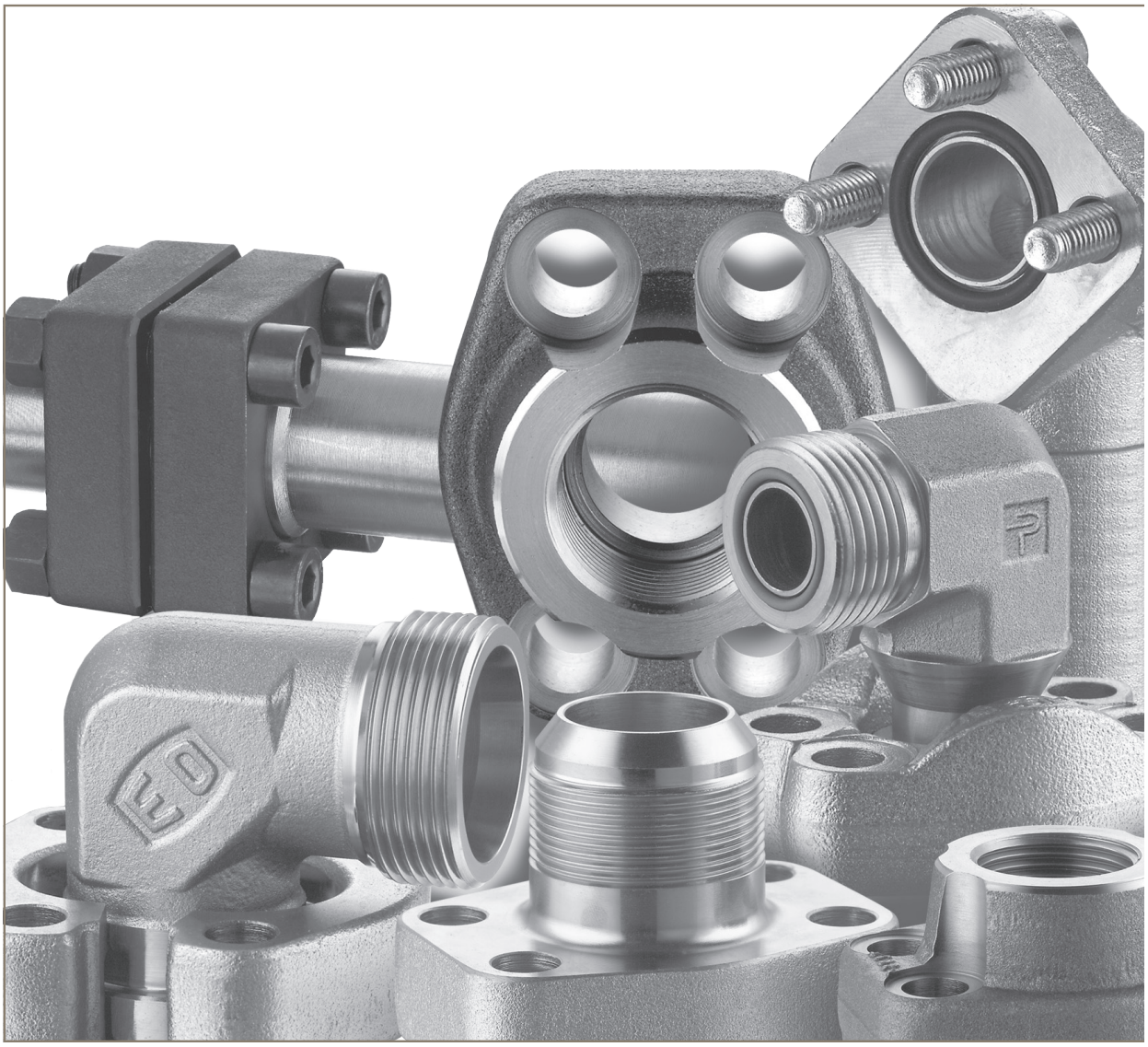
	Materials
Body	Steel / Stainless steel
Piston	Steel
O-Ring	NBR
Tmin / T max	-10°C / 100 °C

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SAE Flange adapters

This chapter contains only a small selection.
An extended part range and more details can be found in chapter N of the catalogue 4100.

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Technical data

Flange screws

SAE Flanges according to ISO 6162-1 and -2 (SAE J518)

– metric bolts according to ISO4762-10.9 (DIN 912-10.9) or higher quality
– UNC bolts according to ANSI/ASME B 18.3

Square flanges according to ISO 6164 (1994) and Cetop

– metric bolts according to (ISO 4762-8.8) DIN 912-8.8 or (ISO4762-10.9) DIN 912-10.9

Gear pump flanges

– metric bolts according to DIN 912-8.8 (ISO 4762-8.8)

Used Sealing

Materials

Flanges according **SAE J518 (ISO 6162-1 and -2), ISO 6164, Cetop** and all **gear pump flanges** in this catalogue are sealed with an O-ring. The seals of our flanges are out of the following materials:

– NBR (e.g. perbunan) 90 shore A durometer is our standard seal material for hydraulic **steel** flange appplications.
– FKM 85 or 90 shore A durometer is our standard seal material for hydraulic **stainless steel** flange applications.

Perbunan = registered trademark of Bayer

Dimensions

O-ring dimensions of ISO 6164 flanges, Cetop flanges and gear pump flanges are shown direct on the product catalogue page. For all flanges according to **ISO 6162-1/2 (SAE J518 Code 61/62)** the O-ring dimension are according to the following table:

Nominal flange size	Nominal-inch tube size (in inches)	ISO 3601-1 SAE J515 O-ring	O-ring size number
13	1/2	18.64×3.53	210
19	3/4	24.99×3.53	214
25	1	32.92×3.53	219
32	1 1/4	37.69×3.53	222
38	1 1/2	47.22×3.53	225
51	2	56.74×3.53	228
64	2 1/2	69.44×3.53	232
76	3	85.32×3.53	237
89	3 1/2	98.02×3.53	241
102	4	110.72×3.53	245
127	5	136.12×3.53	253

Pressure ratings

The maximum recommended working pressure is indicated for each article.
Before using a part, please take notice of the pressure ratings.
All pressure indications are based on a working temperature from –20° celsius up to +100° celsius (resp. ambient temperature from –40° celsius up to +120° celsius). Outside of this temperature range the physical properties of the material is affected and the maximum recommended working pressure is reduced.
The indicated working pressures refer only to the flange itself. For the tubes, fittings and connections the pressure ratings of the specific manufacturer must also be taken into account.

Materials

SAE flanges according to ISO 6162-1 and -2 (SAE 518)

Flange clamps, flange adapter and forged 4 bolt flanges are made of the material ST 52.3 or compatible for **steel** construction. For **stainless steel** constructions we are using for flange clamps, flange adapters and 4 bolt forged flanges the material 1.4401 (316) or compatible. For special applications it is also possible to get the flange adapters made from the material 1.4571 (316Ti).

Square flanges according to ISO 6164 (1994) and Cetop

Steel construction:	ST52.3, C40 or compatible
Stainless steel construction:	1.4571 (316Ti) or compatible

Gear pump flanges

Steel forged construction:	GTW40 or compatible
Steel construction:	ST52.3, 11SMnPb30 or compatible

If different materials are used for manufacturing, this will be shown on the catalogue product page.

Surface protection

All surface order possibilities are described on each catalogue page!

Surface possibilities are:

1. Oil dipped
2. silver surface protection type A3K according to DIN EN ISO 4042
3. Cr(VI)-free surface protection CF (type CF, CR3, CFL) with same or better corrosion resistance than yellow zinc chromated surface protection (A3C).

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Order codes bolts and O-rings

Bolts for flanges
according ISO 6162-1 and -2 (SAE J518)

Nominal flange size			Bolts for flange halves		Bolts for full flanges	
Series	ISO	SAE	metr. Order code	UNC Order code	metr. Order code	UNC Order code
3000 PSI	13	1/2	**ZYLS8X25109X**	**UNC5/16-18X11/4**	**ZYLS8X30109X ***	**UNC5/16-18X11/4**
3000 PSI	19	3/4	**ZYLS10X30109X**	**UNC3/8-16X11/4**	**ZYLS10X35109X ***	**UNC3/8-16X11/2 ***
3000 PSI	25	1	**ZYLS10X30109X**	**UNC3/8-16X11/4**	**ZYLS10X35109X ***	**UNC3/8-16X11/2 ***
3000 PSI	32	1 1/4	**ZYLS10X30109X**	**UNC7/16-14X11/2**	**ZYLS10X40109X ***	**UNC7/16-14X11/2**
3000 PSI	32	1 1/4	**ZYLS10X35109X ***	–	–	–
3000 PSI	32	1 1/4	**ZYLS12X35109X ***	–	–	–
3000 PSI	38	1 1/2	**ZYLS12X35109X**	**UNC1/2-13X11/2**	**ZYLS12X45109X ***	**UNC1/2-13X13/4 ***
3000 PSI	38	1 1/2	**ZYLS14X35109X ***	–	–	–
3000 PSI	51	2	**ZYLS12X35109X**	**UNC1/2-13X11/2**	**ZYLS12X45109X ***	**UNC1/2-13X13/4 ***
3000 PSI	51	2	**ZYLS14X35109X ***	–	–	–
3000 PSI	64	2 1/2	**ZYLS12X40109X**	**UNC1/2-13X13/4**	**ZYLS12X45109X ***	**UNC1/2-13X13/4 ***
3000 PSI	64	2 1/2	**ZYLS14X35109X ***	**UNC1/2-13X11/2 ***	–	–
3000 PSI	76	3	**ZYLS16X50109X**	**UNC5/8-11X13/4**	**ZYLS16X55109X ***	**UNC5/8-11X21/4 ***
3000 PSI	76	3	**ZYLS16X45109X ***	**UNC5/8-11X2 ***	–	–
3000 PSI	89	3 1/2	**ZYLS16X50109X**	**UNC5/8-11X2**	**ZYLS16X55109X ***	**UNC5/8-11X21/4 ***
3000 PSI	89	3 1/2	**ZYLS16X45109X ***	–	–	–
3000 PSI	102	4	**ZYLS16X50109X**	**UNC5/8-11X2**	**ZYLS16X55109X ***	**UNC5/8-11X21/4 ***
3000 PSI	102	4	**ZYLS16X45109X ***	–	–	–
3000 PSI	127	5	**ZYLS16X55109X**	**UNC5/8-11X21/4**	**ZYLS16X55109X**	**UNC5/8-11X21/4**
3000 PSI	127	5	**ZYLS16X50109X ***	**UNC5/8-11X2 ***	–	–
Serie	ISO	SAE	metr.	UNC	metr.	UNC
6000 PSI	13	1/2	**ZYLS8X30109X**	**UNC5/16-18X11/4**	**ZYLS8X30109X**	**UNC5/16-18X11/4**
6000 PSI	19	3/4	**ZYLS10X35109X**	**UNC3/8-16X11/2**	**ZYLS10X35109X**	**UNC3/8-16X11/2**
6000 PSI	25	1	**ZYLS12X45109X**	**UNC7/16-14X13/4**	**ZYLS12X45109X**	**UNC7/16-14X11/2 ***
6000 PSI	25	1	–	**UNC7/16-14X11/2 ***	–	–
6000 PSI	32	1 1/4	**ZYLS12X45109X**	**UNC1/2-13X13/4**	**ZYLS12X50109X**	**UNC1/2-13X13/4**
6000 PSI	32	1 1/4	**ZYLS14X50109X ***	–	**ZYLS14X50109X ***	–
6000 PSI	38	1 1/2	**ZYLS16X55109X**	**UNC5/8-11X21/4**	**ZYLS16X55109X**	**UNC5/8-11X21/4**
6000 PSI	38	1 1/2	–	**UNC5/8-11X2 ***	–	–
6000 PSI	51	2	**ZYLS20X70109X**	**UNC3/4-10X23/4**	**ZYLS20X70109X**	**UNC3/4-10X23/4**
6000 PSI	51	2	**ZYLS20X65109X ***	**UNC3/4-10X21/2 ***	–	–
6000 PSI	64	2 1/2	**ZYLS24X75109X ***	–	**ZYLS24X90109X ***	–
6000 PSI	76	3	**ZYLS30X90109X**	–	**ZYLS30X110109X ***	–

* = are not implemented in the ISO 6162 -1 and ISO 6162-2.

Bolts for hydraulic flanges
(BFG, BFW)

Typ	Bolts Order code	Description
BFG (10L-28L)	**ZYLS6X22VZX**	4 pieces
BFG (20S)	**ZYLS8X25VZX**	4 pieces

Type		LK	Bolts		Description
			Order code	Order code	
BFW	10L	35	**ZYLS6X22VZX**	**ZYLS6X35VZX**	2 Pieces of each bolt
BFW	12L	35	**ZYLS6X22VZX**	**ZYLS6X35VZX**	2 Pieces of each bolt
BFW	15L	35	**ZYLS6X22VZX**	**ZYLS6X35VZX**	2 Pieces of each bolt
BFW	16S	35	**ZYLS6X22VZX**	**ZYLS6X40VZX**	2 Pieces of each bolt
BFW	20S	35	**ZYLS6X22VZX**	**ZYLS6X45VZX**	2 Pieces of each bolt
BFW	15L	40	**ZYLS6X22VZX**	–	4 Pieces
BFW	18L	40	**ZYLS6X22VZX**	–	4 Pieces
BFW	22L	40	**ZYLS6X22VZX**	–	4 Pieces
BFW	28L	40	**ZYLS6X20VZX**	**ZYLS6X50VZX**	2 Pieces of each bolt
BFW	35L	40	**ZYLS6X22VZX**	**ZYLS6X60VZX**	2 Pieces of each bolt
BFW	20S	40	**ZYLS6X22VZX**	**ZYLS6X45VZX**	2 Pieces of each bolt
BFW	35L	55	**ZYLS8X25VZX**	**ZYLS8X60VZX**	2 Pieces of each bolt
BFW	42L	55	**ZYLS8X25VZX**	**ZYLS8X70VZX**	2 Pieces of each bolt
BFW	20S	55	**ZYLS8X25VZX**	**ZYLS8X50VZX**	2 Pieces of each bolt
BFW	25S	55	**ZYLS8X25VZX**	**ZYLS8X55VZX**	2 Pieces of each bolt
BFW	30S	55	**ZYLS8X25VZX**	**ZYLS8X50VZX**	2 Pieces of each bolt

O-rings for flanges
SAE J518

ISO (DN)	SAE (Inch)	O-ring	
		NBR Order code	**FKM** Order code
13	1/2	**OR18.64X3.53X**	**OR18.64X3.53VITX**
19	3/4	**OR25X3.53X**	**OR25X3.53VITX**
25	1	**OR32.92X3.53X**	**OR32.92X3.53VITX**
32	1 1/4	**OR37.69X3.53X**	**OR37.69X3.53VITX**
38	1 1/2	**OR47.22X3.53X**	**OR47.22X3.53VITX**
51	2	**OR56.75X3.53X**	**OR56.75X3.53VITX**
64	2 1/2	**OR69.44X3.53X**	**OR69.44X3.53VITX**
76	3	**OR85.32X3.53X**	**OR85.32X3.53VITX**
89	3 1/2	**OR98.02X3.53X**	**OR98.02X3.53VITX**
102	4	**OR110.72X3.53X**	**OR110.72X3.53VITX**
127	5	**OR136.12X3.53X**	**OR136.12X3.53VITX**

O-rings for hydraulic flanges
(BFG, BFW)

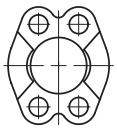
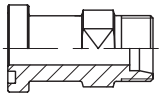
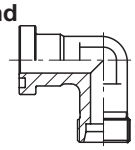
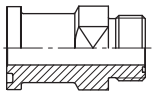
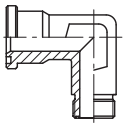
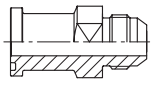
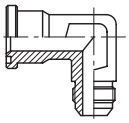
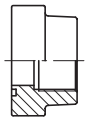
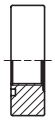
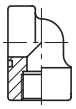
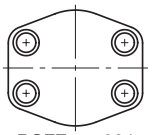
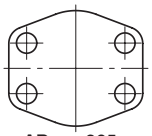
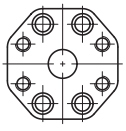
LK	O-ring size	Order code
35	20×2.5	**OR20X2.5X**
40	26×2.5	**OR26X2.5X**
55	32×2.5	**OR32X2.5X**

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SAE Flange adapters

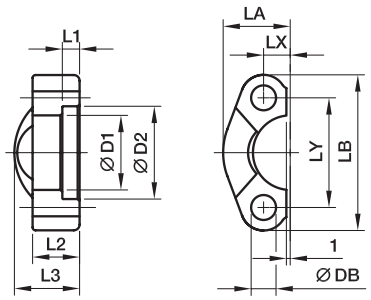
Programme overview

SAE Flange clamps	 **FHS –** p.191  **FUS –** p.192
SAE Flange adapters	**EO 24° cone end**  **GFS –** p.193/194  **WFS –** p.195/196
	O-Lok® ORFS end **Triple-Lok® 37° flare end**  **L(O)HQ –** p.197  **L(O)EMQ –** p.198  **XHQ –** p.199  **XEMQ –** p.200
SAE 4 Bolt flanges	**BSPP Female thread**  **PFF-G –** p.201  **PAFSF-G –** p.202  **PEFF-G –** p.203
SAE Flange accessories	 **PCFF –** p.204  **AP – p.**205  **PRF –** p.206

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

FHS – SAE Split flange halves

SAE 3000/6000
ISO 6162-1/-2



3000 PSI Series

Nom. flange size SAE (in.)	ISO (DN)	D1	D2	L1	L2	L3	LA	LB	LX	LY	DB	Bolts (metr.)	Bolts (unc.)	Weight (steel) kg/piece	Order code	PN (bar)[1] CF	PN (bar)[1] SS
1/2	13	24.3	31.0	6.2	13	19	23.0	54.0	8.7	38.1	8.9	M 08×25	5/16×1 1/4	0.07	**FHS32**	345	345
3/4	19	32.2	38.9	6.2	14	22	25.9	65.0	11.1	47.6	10.6	M 10×30	3/8×1 1/4	0.09	**FHS33**	345	345
1	25	38.5	45.2	7.5	16	24	29.2	69.9	13.1	52.4	10.6	M 10×30	3/8×1 1/4	0.11	**FHS34**	345	345
1 1/4	32	43.7	51.6	7.5	16	22	36.3	79.4	15.1	58.7	10.6	M 10×35	–	0.17	**FHS35/10**	276	276
1 1/4	32	43.7	51.6	7.5	16	22	36.3	79.4	15.1	58.7	12.0	–	7/16×1 1/2	0.17	**FHS35/12**	276	276
1 1/4	32	43.7	51.6	7.5	16	22	36.3	79.4	15.1	58.7	12.5	M 12×35	–	0.17	**FHS35**	276	276
1 1/2	38	50.8	61.1	7.5	16	25	41.1	93.8	17.9	69.9	13.5	M 12×35	1/2×1 1/2	0.24	**FHS36**	207	207
1 1/2	38	50.8	61.1	7.5	16	25	41.1	93.8	17.9	69.9	14.5	M 14×35	–	0.24	**FHS36/14**	207	207
2	51	62.8	72.3	9.0	16	26	48.2	101.6	21.4	77.8	13.5	M 12×35	1/2×1 1/2	0.27	**FHS38/12**	207	207
2	51	62.8	72.3	9.0	16	26	48.2	101.6	21.4	77.8	14.5	M 14×35	–	0.27	**FHS38**	207	207
2 1/2	64	74.9	84.9	9.0	19	38	54.1	114.3	25.4	88.9	13.5	M 12×40	1/2×1 3/4	0.45	**FHS310**	172	172
2 1/2	64	74.9	84.9	9.0	19	38	54.1	114.3	25.4	88.9	14.5	M 14×40	–	0.45	**FHS310/14**	172	172
3	76	90.9	102.4	9.0	22	41	65.3	135.0	31.0	106.4	16.7	M 16×45	5/8×1 3/4	0.71	**FHS312**	138	138
3 1/2	89	102.4	115.0	10.7	22	28	68.6	152.4	34.9	120.7	16.7	M 16×45	5/8×2	0.65	**FHS314**	34	34
4	102	115.1	127.8	10.7	25	35	74.9	162.0	38.9	130.2	16.7	M 16×50	5/8×2	0.87	**FHS316**	34	34
5	127	140.5	153.2	10.7	28	41	89.4	184.2	46.0	152.4	16.7	M 16×50	5/8×2 1/4	1.25	**FHS320**	34	34

6000 PSI Series

1/2	13	24.6	32.5	7.2	16	22	24.0	56.4	9.1	40.5	9.0	M 08×30	5/16×1 1/4	0.08	**FHS62**	420	420
3/4	19	32.5	42.0	8.3	19	28	30.0	72.0	11.9	50.8	11.0	M 10×35	3/8×1 1/2	0.18	**FHS63**	420	420
1	25	38.8	48.4	9.0	24	33	34.8	81.0	13.9	57.2	13.0	M 12×45	–	0.27	**FHS64**	420	420
1	25	38.9	48.4	9.0	24	33	34.8	81.0	13.9	57.2	12.0	–	7/16×1 3/4	0.27	**FHS64/12**	420	420
1 1/4	32	44.5	54.8	9.8	27	38	38.6	95.3	15.9	66.6	15.0	M 14×50	–	0.27	**FHS65**	420	420
1 1/4	32	44.5	54.8	9.8	27	38	38.6	95.3	15.9	66.6	13.0	M 12×45	1/2×1 3/4	0.27	**FHS65/12**	420	420
1 1/2	38	51.6	64.3	12.1	30	43	47.5	112.8	18.3	79.3	17.0	M 16×55	5/8×2 1/4	0.40	**FHS66**	420	420
2	51	67.6	80.2	12.1	37	52	56.9	133.4	22.2	96.8	22.0	M 20×65	3/4×2 3/4	0.40	**FHS68**	420	420
2 1/2	64	90.0	108.0	20.0	45	45	75.1	180.0	29.4	123.8	25.0	M 24×75	–	0.68	**FHS610**	420	420
3	76	115.0	132.5	25.0	55	55	99.1	215.0	35.7	152.4	31.5	M 30×90	–	1.05	**FHS612**	420	420

[1]) Pressure shown = Item deliverable

$\frac{\text{PN (bar)}}{10}$ = PN (MPa)

Please change suffixes according to material/surface required

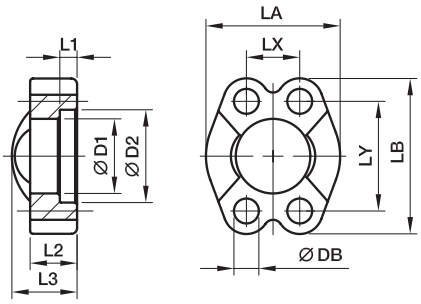
Order code suffixes			
Material	Suffix surface and material	Example	Description
Steel, zinc plated, Cr(VI)-free	CF	FHS32CFX	only flange half
Stainless steel	SS	FHS32SSX	only flange half

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SAE Flange adapters

FUS – SAE Flange clamps

SAE 3000/6000
ISO 6162-1/-2



3000 PSI Series

Nom. flange size												Bolts		Weight (steel)		PN (bar)[1]	
SAE (in.)	ISO (DN)	D1	D2	L1	L2	L3	LA	LB	LX	LY	DB	(metr.)	(unc.)	kg/piece	Order code	CF	SS
1/2	13	24.3	31.0	6.2	13	19	46	54.0	17.5	38.1	8.9	M 08×25	5/16×1 1/4	0.13	**FUS32**	345	345
3/4	19	32.2	38.9	6.2	14	22	52	65.0	22.3	47.6	10.6	M 10×30	3/8×1 1/4	0.18	**FUS33**	345	345
1	25	38.5	45.2	7.5	16	24	59	69.9	26.2	52.4	10.6	M 10×30	3/8×1 1/4	0.22	**FUS34**	345	345
1 1/4	32	43.7	51.6	7.5	16	22	73	79.4	30.2	58.7	10.6	M 10×35	–	0.30	**FUS35/10**	276	276
1 1/4	32	43.7	51.6	7.5	16	22	73	79.4	30.2	58.7	12.0	–	7/16×1 1/2	0.29	**FUS35/12**	276	276
1 1/4	32	43.7	51.6	7.5	16	22	73	79.4	30.2	58.7	12.5	M 12×35	–	0.29	**FUS35**	276	276
1 1/2	38	50.8	61.1	7.5	16	25	83	93.8	35.8	69.9	13.5	M 12×35	1/2×1 1/2	0.45	**FUS36**	207	207
1 1/2	38	50.8	61.1	7.5	16	25	83	93.8	35.8	69.9	14.5	M 14×35	–	0.44	**FUS36/14**	207	207
2	51	62.8	72.3	9.0	16	26	97	101.6	42.8	77.8	13.5	M 12×35	1/2×1 1/2	0.53	**FUS38/12**	207	207
2	51	62.8	72.3	9.0	16	26	97	101.6	42.8	77.8	14.5	M 14×35	–	0.51	**FUS38**	207	207
2 1/2	64	74.9	84.9	9.0	19	38	109	114.3	50.8	88.9	13.5	M 12×40	1/2×1 3/4	0.85	**FUS310**	172	172
2 1/2	64	74.9	84.9	9.0	19	38	109	114.3	50.8	88.9	14.5	M 14×40	–	0.82	**FUS310/14**	172	172
3	76	90.9	102.4	9.0	22	41	131	135.0	61.9	106.4	16.7	M 16×45	5/8×1 3/4	1.30	**FUS312**	138	138
3 1/2	89	102.4	115.0	10.7	22	28	140	152.4	69.9	120.7	16.7	M 16×45	5/8×2	1.57	**FUS314**	34	34
4	102	115.1	127.8	10.7	25	35	150	162.0	77.8	130.2	16.7	M 16×50	5/8×2	1.82	**FUS316**	34	34
5	127	140.5	153.2	10.7	28	41	180	184.2	92.1	152.4	16.7	M 16×50	5/8×2 1/4	2.63	**FUS320**	34	34

6000 PSI Series

1/2	13	24.6	32.5	7.2	16	22	48	56.4	18.2	40.5	8.9	M 08×30	5/16×1 1/4	0.16	**FUS62**	420	420
3/4	19	32.5	42.0	8.3	19	28	60	71.4	23.8	50.8	10.6	M 10×35	3/8×1 1/2	0.31	**FUS63**	420	420
1	25	38.8	48.4	9.0	24	33	70	81.0	27.8	57.2	13.3	M 12×45	–	0.49	**FUS64**	420	420
1	25	38.9	48.4	9.0	24	33	70	81.0	27.8	57.2	12.0	–	7/16×1 3/4	0.51	**FUS64/12**	420	420
1 1/4	32	44.5	54.8	9.8	27	38	78	95.3	31.8	66.6	15.0	M 14×50	–	0.77	**FUS65**	420	420
1 1/4	32	44.5	54.8	9.8	27	38	78	95.3	31.8	66.6	13.3	M 12×45	1/2×1 3/4	0.81	**FUS65/12**	420	420
1 1/2	38	51.6	64.3	12.1	30	43	96	112.8	36.5	79.3	16.7	M 16×55	5/8×2 1/4	1.31	**FUS66**	420	420
2	51	67.6	80.2	12.1	37	52	114	133.4	44.5	96.8	20.6	M 20×65	3/4×2 3/4	2.00	**FUS68**	420	420
2 1/2	64	90.0	108.9	20.5	45	45	150	180.0	58.7	123.8	25.0	M 24×75	–	3.95	**FUS610**	420	420
3	76	115.0	132.5	25.5	55	55	178	215.0	71.4	152.4	31.0	M 30×90	–	6.73	**FUS612**	420	420

[1]) Pressure shown = Item deliverable

$\frac{\text{PN (bar)}}{10}$ = PN (MPa)

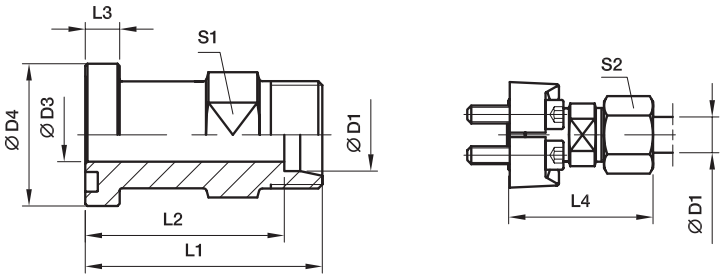
Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Description
Steel, zinc plated, Cr(VI)-free	CF	FUS32CFX	only flange clamp
Stainless steel	SS	FUS32SSX	only flange clamp

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

GFS – SAE Straight flange adapter

SAE Flange/EO 24° cone end
(ISO 6162-1)



3000 PSI Series

Nom. flange size SAE (in.)	Nom. flange size ISO (DN)	D1[2]	D3	D4	L1	L2	L3	L4	S1	S2	Bolts (metr.)	Bolts (unc.)	Weight (steel) kg/piece	Order code	PN (bar)[1] CF	PN (bar)[1] 71
1/2	13	15L	12.0	30.2	48.0	41.0	6.7	56.0	24	27	M 08×25	5/16×1 1/4	0.13	**GFS32/15L**	315	315
1/2	13	16S	12.0	30.2	50.0	41.5	6.7	60.0	24	30	M 08×25	5/16×1 1/4	0.14	**GFS32/16S**	350	350
1/2	13	18L	14.0	30.2	50.0	42.5	6.7	61.0	19	32	M 08×25	5/16×1 1/4	0.12	**GFS32/18L**	315	315
3/4	19	16S	12.0	38.1	55.0	46.5	6.7	64.5	27	30	M 10×30	3/8×1 1/4	0.22	**GFS33/16S**	350	350
3/4	19	18L	17.0	38.1	53.0	45.5	6.7	62.0	30	32	M 10×30	3/8×1 1/4	0.22	**GFS33/18L**	315	315
3/4	19	22L	19.0	38.1	53.0	45.5	6.7	62.0	30	36	M 10×30	3/8×1 1/4	0.20	**GFS33/22L**	160	160
3/4	19	28L	19.0	38.1	55.0	41.0	6.7	64.0	32	41	M 10×30	3/8×1 1/4	0.23	**GFS33/28L**	160	160
3/4	19	20S	17.0	38.1	57.0	46.5	6.7	68.0	30	36	M 10×30	3/8×1 1/4	0.25	**GFS33/20S**	350	350
3/4	19	25S	17.0	38.1	57.0	45.0	6.7	69.0	30	46	M 10×30	3/8×1 1/4	0.27	**GFS33/25S**	350	350
1	25	20S	25.0	44.5	60.0	48.5	8.0	71.0	32	36	M 10×30	3/8×1 1/4	0.34	**GFS34/20S**	350	350
1	25	28L	24.0	44.5	54.0	46.5	8.0	63.0	36	41	M 10×30	3/8×1 1/4	0.28	**GFS34/28L**	160	160
1	25	25S	20.0	44.5	58.0	46.5	8.0	60.0	36	46	M 10×30	3/8×1 1/4	0.35	**GFS34/25S**	350	350
1	25	30S	24.0	44.5	63.0	49.5	8.0	76.0	36	50	M 10×30	3/8×1 1/4	0.36	**GFS34/30S**	250	250
1	25	42L	24.0	44.5	76.0	65.0	8.0	87.5	41	60	M 10×30	3/8×1 1/4	0.49	**GFS34/42L**	160	160
1 1/4	32	35L	32.0	50.8	58.0	47.5	8.0	69.0	41	50	M 10×35	–	0.36	**GFS35/35L/10[3])**	160	160
1 1/4	32	25S	27.0	50.8	60.0	48.0	8.0	72.0	41	46	M 10×35	–	0.44	**GFS35/25S/10[3])**	200	200
1 1/4	32	30S	28.5	50.8	62.0	48.5	8.0	75.0	41	50	M 10×35	–	0.44	**GFS35/30S/10[3])**	200	200
1 1/4	32	38S	28.0	50.8	66.0	50.0	8.0	81.0	46	60	M 10×35	–	0.46	**GFS35/38S/10[3])**	200	200
1 1/4	32	28L	23.0	50.8	60.0	52.5	8.0	67.0	36	41	M 12×40	7/16×1 1/2	0.41	**GFS35/28L**	160	160
1 1/4	32	35L	32.0	50.8	58.0	47.5	8.0	69.0	41	50	M 12×40	7/16×1 1/2	0.36	**GFS35/35L**	160	160
1 1/4	32	25S	27.0	50.8	60.0	48.0	8.0	72.0	41	46	M 12×40	7/16×1 1/2	0.44	**GFS35/25S**	200	200
1 1/4	32	30S	28.5	50.8	62.0	48.5	8.0	75.0	41	50	M 12×40	7/16×1 1/2	0.44	**GFS35/30S**	200	200
1 1/4	32	38S	28.0	50.8	66.0	50.0	8.0	81.0	46	60	M 12×40	7/16×1 1/2	0.46	**GFS35/38S**	200	200
1 1/2	38	35L	30.0	60.3	65.0	54.5	8.0	76.0	46	50	M 12×35	1/2×1 1/2	0.55	**GFS36/35L**	160	160
1 1/2	38	42L	36.0	60.3	64.0	53.0	8.0	76.0	46	60	M 12×35	1/2×1 1/2	0.49	**GFS36/42L**	160	160
1 1/2	38	38S	32.0	60.3	70.0	54.0	8.0	85.0	46	60	M 12×35	1/2×1 1/2	0.64	**GFS36/38S**	200	200

[1]) Pressure shown = Item deliverable

[2]) L = light series; S = heavy series

$\frac{\text{PN (bar)}}{10}$ = PN (MPa)

Delivery without nut and ring. For nuts and cutting rings see also Industrial Tube Fittings Europe Catalogue 4100.

[3]) Order code for the flange adapter assembled with FHS35/10CFX and M10×35 bolts.

For associated flange halves depending on bolt sets, see Industrial Tube Fittings Europe Catalogue 4100.

Stainless steel parts may have dimensional deviations. Additional information on request.

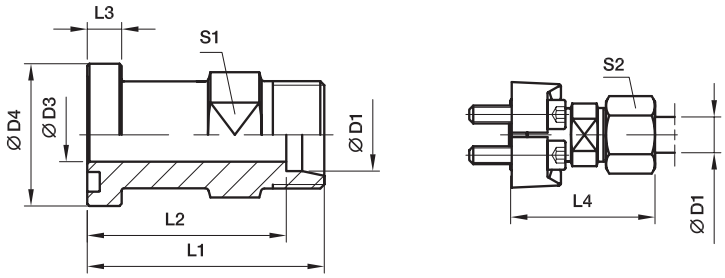
Please change suffixes according to material/surface required

Order code suffixes					
Material	Suffix surface and material	Example only flange adapter	Example incl. splitflanges, metr. bolts and O-Ring	Example incl. splitflanges, UNC bolts and O-Ring	Standard sealing material (no additional suffix needed)
Steel, zinc plated, Cr(VI)-free	CF	GFS32/16SCFX	GFS32/16SOMDCF	GFS32/16SOMDCFU	NBR
Stainless steel	71	GFS32/16S71X	GFS32/16SOMD71	-	VIT

SAE Flange adapters

GFS – SAE Straight flange adapter

SAE Flange/EO 24° cone end
(ISO 6162-2)



SAE 6000

Nom. flange size		D1[2]									Bolts		Weight (steel)		PN (bar)[1]	
SAE (in)	ISO (DN)		D3	D4	L1	L2	L3	L4	S1	S2	(metr.)	(unc.)	kg/1 piece	Order code	CF	71
1/2	13	12S	8	31.8	50.0	42.5	7.7	57.5	19	24	M 08x30	5/16x1 1/4	0.14	**GFS62/12S**	420	420
1/2	13	14S	10	31.8	50.0	42.0	7.7	59.5	19	27	M 08x30	5/16x1 1/4	0.17	**GFS62/14S**	420	420
1/2	13	16S	12	31.8	50.0	41.5	7.7	49.5	19	30	M 08x30	5/16x1 1/4	0.15	**GFS62/16S**	420	420
3/4	19	16S	17	41.3	59.0	50.5	8.7	68.5	30	30	M 10x35	3/8x1 1/2	0.28	**GFS63/16S**	420	420
3/4	19	20S	17	41.3	61.0	50.5	8.7	72.0	30	36	M 10x35	3/8x1 1/2	0.27	**GFS63/20S**	420	400
3/4	19	25S	17	41.3	63.0	51.0	8.7	75.0	30	46	M 10x35	3/8x1 1/2	0.31	**GFS63/25S**	420	400
3/4	19	30S	18	41.3	76.0	62.0	8.7	89.0	30	50	M 10x35	3/8x1 1/2	0.42	**GFS63/30S**	420	400
3/4	19	38S	19	41.3	80.0	64.0	8.7	94.5	41	60	M 10x35	3/8x1 1/2	0.57	**GFS63/38S**	420	315
1	25	20S	16	47.6	75.0	64.5	9.5	88.0	36	36	M 12x45	7/16x1 3/4	0.49	**GFS64/20S**	420	400
1	25	25S	20	47.6	72.0	60.0	9.5	84.0	36	46	M 12x45	7/16x1 3/4	0.46	**GFS64/25S**	420	400
1	25	30S	24	47.6	74.0	62.0	9.5	87.0	36	50	M 12x45	7/16x1 3/4	0.43	**GFS64/30S**	420	400
1	25	38S	25	47.6	90.0	74.0	9.5	105.0	41	60	M 12x45	7/16x1 3/4	0.65	**GFS64/38S**	420	315
1 1/4	32	25S	20	54.0	80.0	68.0	10.2	92.0	41	46	M 14x50	-	0.68	**GFS65/25S**	420	400
1 1/4	32	25S	20	54.0	80.0	68.0	10.2	92.0	41	46	M 12x50	1/2x1 3/4	0.68	**GFS65/25S/12[3]**	420	400
1 1/4	32	30S	30	54.0	79.0	65.5	10.2	92.0	41	50	M 12x50	1/2x1 3/4	0.58	**GFS65/30S/12[3]**	420	400
1 1/4	32	38S	31	54.0	80.0	64.0	10.2	94.5	46	60	M 12x50	1/2x1 3/4	0.58	**GFS65/38S/12[3]**	420	315
1 1/4	32	30S	30	54.0	79.0	65.5	10.2	92.0	41	50	M 14x50	-	0.58	**GFS65/30S**	420	400
1 1/4	32	38S	31	54.0	80.0	64.0	10.2	94.5	46	60	M 14x50	-	0.58	**GFS65/38S**	420	315
1 1/2	38	30S	30	63.5	90.0	74.0	12.5	103.0	46	50	M 16x55	5/8x2 1/4	1.00	**GFS66/30S**	420	400
1 1/2	38	38S	32	63.5	90.0	74.0	12.5	104.5	46	60	M 16x55	5/8x2 1/4	0.93	**GFS66/38S**	420	315

[1]) Pressure shown = Item deliverable

[2]) L = light series; S = heavy series

$\frac{\text{PN (bar)}}{10}$ = PN (MPa)

Delivery without nut and ring. For nuts and cutting rings see also Industrial Tube Fittings Europe Catalogue 4100.
[3]) Order code for the flange adapter assembled with FHS65/12CFX and M12X50 bolts.

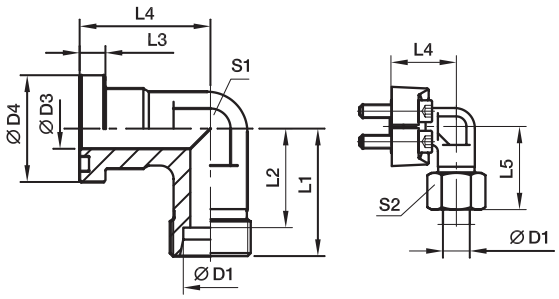
For associated flange halves depending on bolt sets, see Industrial Tube Fittings Europe Catalogue 4100.
Stainless steel parts may have dimensional deviations. Additional information on request.

Please change suffixes according to material/surface required

Order code suffixes					
Material	Suffix surface and material	Example only flange adapter	Example incl. splitflanges, metr. bolts and O-Ring	Example incl. splitflanges, UNC bolts and O-Ring	Standard sealing material (no additional suffix needed)
Steel, zinc plated, Cr(VI)-free	CF	GFS62/16SCFX	GFS62/16SOMDCF	GFS62/16SOMDCFU	NBR
Stainless steel	71	GFS62/16S71X	GFS62/16SOMD71	-	VIT

WFS – SAE 90° Elbow flange adapter

SAE Flange/EO 24° cone end
(ISO 6162-1)



3000 PSI Series

Nom. flange size		D1[2]										Bolts		Weight (steel)		PN (bar)[1]	
SAE (in.)	ISO (DN)		D3	D4	L1	L2	L3	L4	L5	S1	S2	(metr.)	(unc.)	kg/piece	Order code	CF	71
1/2	13	12S	12	30.2	50	42.5	6.7	44	58.5	22	24	M 08×25	5/16×1 1/4	0.24	**WFS32/12S**	210	210
1/2	13	15L	12	30.2	36	29.0	6.7	36	44.0	24	27	M 08×25	5/16×1 1/4	0.16	**WFS32/15L**	315	315
1/2	13	16S	12	30.2	38	29.5	6.7	36	48.0	24	30	M 08×25	5/16×1 1/4	0.17	**WFS32/16S**	350	350
1/2	13	18L	12	30.2	50	42.5	6.7	44	59.0	22	32	M 08×25	5/16×1 1/4	0.20	**WFS32/18L**	315	315
3/4	19	16S	19	38.1	64	55.5	6.7	53	73.5	27	30	M 10×30	3/8×1 1/4	0.36	**WFS33/16S**	350	350
3/4	19	18L	19	38.1	39	31.5	6.7	42	48.0	30	32	M 10×30	3/8×1 1/4	0.30	**WFS33/18L**	315	315
3/4	19	22L	19	38.1	41	33.5	6.7	42	50.0	30	36	M 10×30	3/8×1 1/4	0.28	**WFS33/22L**	160	160
3/4	19	20S	17	38.1	43	32.5	6.7	42	54.0	30	36	M 10×30	3/8×1 1/4	0.33	**WFS33/20S**	350	350
3/4	19	25S	17	38.1	45	33.0	6.7	42	57.0	30	46	M 10×30	3/8×1 1/4	0.32	**WFS33/25S**	350	350
1	25	20S	20	44.5	65	54.5	8.0	60	77.0	34	36	M 10×30	3/8×1 1/4	0.55	**WFS34/20S**	350	350
1	25	22L	18	44.5	65	57.5	8.0	60	74.0	34	36	M 10×30	3/8×1 1/4	0.53	**WFS34/22L**	160	160
1	25	28L	25	44.5	44	36.5	8.0	45	53.0	36	41	M 10×30	3/8×1 1/4	0.41	**WFS34/28L**	160	160
1	25	25S	20	44.5	48	36.5	8.0	45	57.0	36	46	M 10×30	3/8×1 1/4	0.52	**WFS34/25S**	350	350
1	25	30S	24	44.5	50	36.5	8.0	45	63.0	36	50	M 10×30	3/8×1 1/4	0.48	**WFS34/30S**	250	250
1 1/4	32	35L	32	50.8	57	46.5	8.0	50	68.0	41	50	M 10×35	–	0.53	**WFS35/35L/10[3])**	160	160
1 1/4	32	25S	27	50.8	55	43.0	8.0	60	67.0	41	46	M 10×35	–	0.72	**WFS35/25S/10[3])**	200	200
1 1/4	32	30S	28	50.8	57	43.5	8.0	50	70.0	41	50	M 10×35	–	0.67	**WFS35/30S/10[3])**	200	200
1 1/4	32	38S	28	50.8	59	43.0	8.0	50	74.0	46	60	M 10×35	–	0.71	**WFS35/38S/10[3])**	200	200
1 1/4	32	35L	32	50.8	57	46.5	8.0	50	68.0	41	50	M 12×40	7/16×1 1/2	0.53	**WFS35/35L**	160	160
1 1/4	32	25S	27	50.8	55	43.0	8.0	50	67.0	41	46	M 12×40	7/16×1 1/2	0.72	**WFS35/25S**	200	200
1 1/4	32	30S	28	50.8	57	43.5	8.0	50	70.0	41	50	M 12×40	7/16×1 1/2	0.67	**WFS35/30S**	200	200
1 1/4	32	38S	28	50.8	59	43.0	8.0	50	74.0	41	60	M 12×40	7/16×1 1/2	0.71	**WFS35/38S**	200	200
1 1/2	38	35L	30	60.3	78	67.5	8.0	66	83.0	50	50	M 12×35	1/2×1 1/2	1.36	**WFS36/35L**	160	160
1 1/2	38	42L	36	60.3	58	47.0	8.0	55	70.0	50	60	M 12×35	1/2×1 1/2	0.73	**WFS36/42L**	160	160
1 1/2	38	38S	36	60.3	64	48.0	8.0	55	79.0	50	60	M 12×35	1/2×1 1/2	0.95	**WFS36/38S**	200	200

[1]) Pressure shown = Item deliverable

[2]) L = light series; S = heavy series

$\frac{\text{PN (bar)}}{10}$ = PN (MPa)

Delivery without nut and ring. For nuts and cutting rings see also Industrial Tube Fittings Europe Catalogue 4100.
[3]) Order code for the elbow flange adapter assembled with FHS35/10CFX and M10X35 bolts.

For associated flange halves depending on bolt sets, see Industrial Tube Fittings Europe Catalogue 4100.
Stainless steel parts may have dimensional deviations. Additional information on reques.

Please change suffixes according to material/surface required

Order code suffixes					
Material	Suffix surface and material	Example only flange adapter	Example incl. splitflanges, metr. bolts and O-Ring	Example incl. splitflanges, UNC bolts and O-Ring	Standard sealing material (no additional suffix needed)
Steel, zinc plated, Cr(VI)-free	CF	WFS32/16SCFX	WFS32/16SOMDCF	WFS32/16SOMDCFU	NBR
Stainless steel	71	WFS32/16S71X	WFS32/16SOMD71	-	VIT

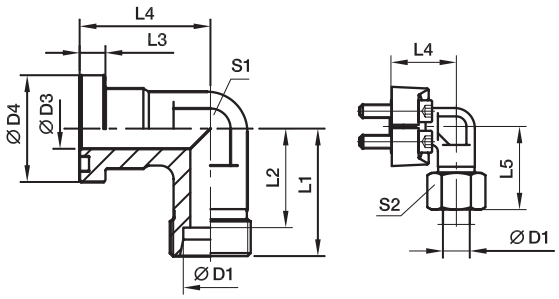
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SAE Flange adapters

WFS – SAE 90° Elbow flange adapter

SAE Flange/EO 24° cone end
(ISO 6162-2)



6000 PSI Series

Nom. flange size SAE (in.)	Nom. flange size ISO (DN)	D1[2]	D3	D4	L1	L2	L3	L4	L5	S1	S2	Bolts (metr.)	Bolts (unc.)	Weight (steel) kg/piece	Order code	PN (bar)[1] CF	PN (bar)[1] 71
1/2	13	12S	12	31.8	50	42.5	7.7	44	58.5	22	24	M 08×30	5/16×1 1/4	0.22	**WFS62/12S**	420	420
1/2	13	14S	12	31.8	50	42.0	7.7	44	59.5	22	27	M 08×30	5/16×1 1/4	0.27	**WFS62/14S**	420	420
1/2	13	16S	12	31.8	38	29.5	7.7	39	48.0	24	30	M 08×30	5/16×1 1/4	0.19	**WFS62/16S**	420	420
3/4	19	16S	17	41.3	45	36.5	8.7	48	55.0	32	30	M 10×35	3/8×1 1/2	0.42	**WFS63/16S**	420	420
3/4	19	20S	17	41.3	46	35.5	8.7	48	57.0	32	36	M 10×35	3/8×1 1/2	0.42	**WFS63/20S**	420	400
3/4	19	25S	17	41.3	48	36.0	8.7	48	60.0	32	46	M 10×35	3/8×1 1/2	0.46	**WFS63/25S**	420	400
1	25	20S	16	47.6	65	54.5	9.5	62	75.0	34	36	M 12×45	7/16×1 3/4	0.60	**WFS64/20S**	420	400
1	25	25S	20	47.6	53	44.0	9.5	60	65.0	41	46	M 12×45	7/16×1 3/4	0.74	**WFS64/25S**	420	400
1	25	30S	25	47.6	55	41.5	9.5	60	68.0	41	50	M 12×45	7/16×1 3/4	0.64	**WFS64/30S**	420	400
1 1/4	32	25S	25	54.0	64	52.0	10.2	55	76.0	42	46	M 12×45	–	1.06	**WFS65/25S/12[3])**	420	400
1 1/4	32	30S	30	54.0	58	44.5	10.2	68	71.0	46	50	M 12×45	–	0.88	**WFS65/30S/12[3])**	420	400
1 1/4	32	38S	30	54.0	72	56.0	10.2	70	87.0	46	60	M 12×45	–	0.93	**WFS65/38S/12[3])**	420	315
1 1/4	32	25S	20/28	54.0	72	60.0	10.3	70	84.0	42	46	M 14×50	1/2×1 3/4	1.06	**WFS65/25S**	420	400
1 1/4	32	30S	30	54.0	58	44.5	10.2	68	71.0	46	50	M 14×50	1/2×1 3/4	0.88	**WFS65/30S**	420	400
1 1/4	32	38S	30	54.0	72	56.0	10.2	70	87.0	46	60	M 14×50	1/2×1 3/4	0.93	**WFS65/38S**	420	315
1 1/2	38	30S	25	63.5	76	63.5	12.5	77	90.0	50	50	M 16×55	5/8×2 1/4	1.75	**WFS66/30S**	420	400
1 1/2	38	38S	32	63.5	84	68.0	12.5	80	99.0	50	60	M 16×55	5/8×2 1/4	1.46	**WFS66/38S**	420	315

[1]) Pressure shown = Item deliverable

[2]) S = heavy series

$\frac{\text{PN (bar)}}{10}$ = PN (MPa)

Delivery without nut and ring. For nuts and cutting rings see also Industrial Tube Fittings Europe Catalogue 4100.

[3]) Order code for the elbow flange adapter assembled with FHS65/12CFX and M12X45 bolts.

For associated flange halves depending on bolt sets, Industrial Tube Fittings Europe Catalogue 4100.

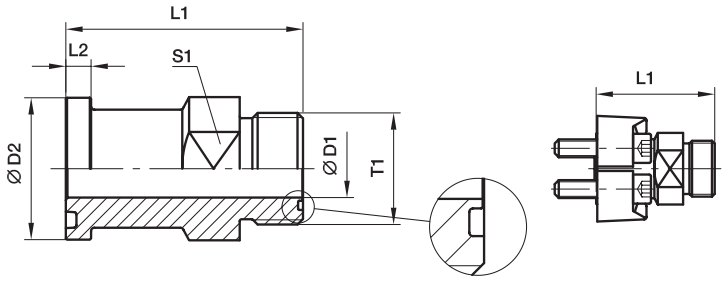
Stainless steel parts may have dimensional deviations. Additional information on request.

Please change suffixes according to material/surface required

Order code suffixes					
Material	Suffix surface and material	Example only flange adapter	Example incl. splitflanges, metr. bolts and O-Ring	Example incl. splitflanges, UNC bolts and O-Ring	Standard sealing material (no additional suffix needed)
Steel, zinc plated, Cr(VI)-free	CF	WFS62/16SCFX	WFS62/16SOMDCF	WFS62/16SOMDCFU	NBR
Stainless steel	71	WFS62/16S71X	WFS62/16SOMD71	-	VIT

L(O)HQ – SAE Straight flange adapter

SAE Flange/O-Lok® ORFS end
(ISO 6162-1/-2)



3000 PSI Series

Nom. flange size SAE (in.)	Nom. flange size ISO (DN)	Tube (metr.)	Tube (in.)	T1	D1	D2	L1	L2	S1	Weight (steel) kg/piece	O-ring face without ORFS O-ring Order code	O-ring face include ORFS O-ring Order code	PN (bar)[1] S
3/4	19	18, 20	3/4	**1 3/16-12UN**	15.5	38.1	70.9	6.7	35.0	0.21	**12LHQ1**	**12LOHQ1**	350
1	25	22, 25	7/8, 1	**1 7/16-12UN**	20.6	44.5	71.4	8.0	41.0	0.30	**16LHQ1**	**16LOHQ1**	350
1 1/4	32	28, 30, 32	1 1/4	**1 11/16-12UN**	26.0	50.8	81.5	8.0	47.5	0.31	**20LHQ1**	**20LOHQ1**	280
1 1/2	38	35, 38	1 1/2	**2-12UN**	32.0	60.3	83.6	8.0	54.0	0.56	**24LHQ1**	**24LOHQ1**	210

6000 PSI Series

3/4	19	18, 20	3/4	**1 3/16-12UN**	15.5	41.3	76.7	8.8	35.0	0.21	**12LHQ2**	**12LOHQ2**	420
1	25	18, 20	3/4	**1 3/16-12UN**	15.5	47.6	84.8	9.5	35.0	0.26	**12-16LHQ2**	**12-16LOHQ2**	420
1	25	22, 27	3/4, 7/8	**1 7/16-12UN**	20.6	47.6	85.3	9.5	41.0	0.30	**16LHQ2**	**16LOHQ2**	420
1 1/4	32	28, 30, 32	1 1/4	**1 11/16-12UN**	26.0	54.0	88.4	10.3	47.5	0.31	**20LHQ2**	**20LOHQ2**	345
1 1/2	38	35, 38	1 1/2	**2-12UN**	32.0	63.5	105.2	12.6	54.0	0.56	**24LHQ2**	**24LOHQ2**	310

[1]) Pressure shown = Item deliverable

$\frac{\text{PN (bar)}}{10}$ = PN (MPa)

For associated flange halves depending on bolt sets, see Industrial Tube Fittings Europe Catalogue 4100.
Stainless steel parts may have dimensional deviations. Additional information on request.

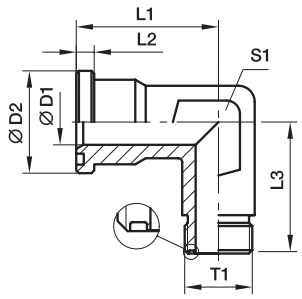
Please change suffixes according to material/surface required

Order code suffixes				
Material	Suffix surface and material	Example only flange adapter without ORFS O-ring	Example only flange adapter incl. ORFS O-ring	Standard sealing material (no additional suffix needed)
Steel, oiled	S	12LHQ1-S	12LOHQ1-S	NBR

SAE Flange adapters

L(O)EMQ – SAE 90° Elbow flange adapter

SAE Flange/O-Lok® ORFS end
(ISO 6162-1/-2



3000 PSI Series

Nom. flange size		Tube									Weight (steel)	O-ring face without ORFS O-ring	O-ring face include ORFS O-ring	PN (bar)[1]	
SAE (in.)	ISO (DN)	(metr.)	(in.)	T1	D1	D2	L1	L2	L3	S1	kg/piece	Order code	Order code	CF	SS
1/2	13	8, 10	3/8	**11/16-16UN**	6	30.2	44	6.7	50	22	0.40	**6-8LEMQ1**	**6-8LOEMQ1**	350	350
1/2	13	12	1/2	**13/16-16UN**	9	30.2	44	6.7	50	22	0.36	**8LEMQ1**	**8LOEMQ1**	350	350
1/2	13	14, 15, 16	5/8	**1-14UN**	12	30.2	44	6.7	50	22	0.32	**10-8LEMQ1**	**10-8LOEMQ1**	350	350
3/4	19	14, 15, 16	5/8	**1-14UN**	12	38.1	53	6.7	64	27	0.47	**10-12LEMQ1**	**10-12LOEMQ1**	350	350
3/4	19	18, 20	3/4	**1 3/16-12UN**	15	38.1	53	6.7	64	27	0.44	**12LEMQ1**	**12LOEMQ1**	350	350
1	25	18, 20	3/4	**1 3/16-12UN**	15	44.4	60	8.0	65	34	0.52	**12-16LEMQ1**	**12-16LOEMQ1**	350	350
1	25	22, 25	7/8, 1	**1 7/16-12UN**	20	44.4	60	8.0	65	34	0.50	**16LEMQ1**	**16LOEMQ1**	350	350
1 1/4	32	22, 25	7/8, 1	**1 7/16-12UN**	20	50.8	55	8.0	64	42	0.48	**16-20LEMQ1**	**16-20LOEMQ1**	278	278
1 1/4	32	28, 30, 32	1 1/4	**1 11/16-12UN**	26	50.8	55	8.0	64	42	0.56	**20LEMQ1**	**20LOEMQ1**	278	278
1 1/2	38	28, 30, 32	1 1/4	**1 11/16-12UN**	26	60.3	66	8.0	78	50	0.73	**20-24LEMQ1**	**20-24LOEMQ1**	207	207
1 1/2	38	35, 38	1 1/2	**2-12UN**	32	60.3	66	8.0	78	50	0.69	**24LEMQ1**	**24LOEMQ1**	207	207

6000 PSI Series

1/2	13	8, 10	3/8	**11/16-16UN**	6	31.8	44	7.7	50	22	0.40	**6-8LEMQ2**	**6-8LOEMQ2**	420	420
1/2	13	12	1/2	**13/16-16UN**	9	31.8	44	7.7	50	22	0.36	**8LEMQ2**	**8LOEMQ2**	420	420
1/2	13	14, 15, 16	5/8	**1-14UN**	12	31.8	44	7.7	50	22	0.32	**10-8LEMQ2**	**10-8LOEMQ2**	420	420
3/4	19	14, 15, 16	5/8	**1-14UN**	12	41.3	53	8.7	64	27	0.47	**10-12LEMQ2**	**10-12LOEMQ2**	420	420
3/4	19	18, 20	3/4	**1 3/16-12UN**	15	41.3	53	8.7	64	27	0.44	**12LEMQ2**	**12LOEMQ2**	420	420
1	25	18, 20	3/4	**1 3/16-12UN**	15	47.6	60	9.5	62	34	0.52	**12-16LEMQ2**	**12-16LOEMQ2**	420	420
1	25	22, 25	7/8, 1	**1 7/16-12UN**	20	47.6	60	9.5	62	34	0.50	**16LEMQ2**	**16LOEMQ2**	420	420
1 1/4	32	22, 25	7/8, 1	**1 7/16-12UN**	20	54.0	70	10.3	72	42	0.48	**16-20LEMQ2**	**16-20LOEMQ2**	420	420
1 1/4	32	28, 30, 32	1 1/4	**1 11/16-12UN**	26	54.0	70	10.3	72	42	0.56	**20LEMQ2**	**20LOEMQ2**	345	345
1 1/2	38	28, 30, 32	1 1/4	**1 11/16-12UN**	26	63.5	80	12.5	84	50	0.73	**20-24LEMQ2**	**20-24LOEMQ2**	345	345
1 1/2	38	35, 38	1 1/2	**2-12UN**	32	63.5	80	12.5	84	50	0.69	**24LEMQ2**	**24LOEMQ2**	310	310

[1]) Pressure shown = Item deliverable

$\frac{\text{PN (bar)}}{10}$ = PN (MPa)

For associated flange halves depending on bolt sets, see Industrial Tube Fittings Europe Catalogue 4100.

Stainless steel parts may have dimensional deviations. Additional information on request.

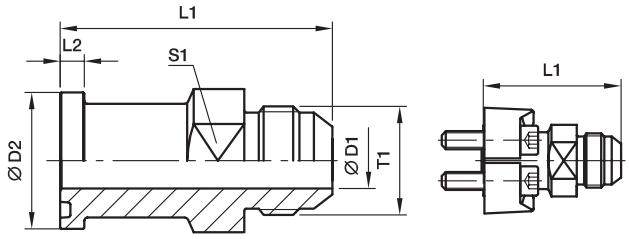
Please change suffixes according to material/surface required

Order code suffixes				
Material	Suffix surface and material	Example only flange adapter without ORFS O-Ring	Example only flange adapter incl. ORFS O-Ring	Standard sealing material (no additional suffix needed)
Steel, zinc plated, Cr(VI)-free	CF	12LEMQ1CF	12LOEMQ1CF	NBR
Stainless steel	SS	12LEMQ1SS	12LOEMQ1SS	VIT

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XHQ – SAE Straight flange adapter

SAE Flange/Triple-Lok® 37° flare end
(ISO 6162-1/-2)



3000 PSI Series

Nom. flange size SAE (in.)	ISO (DN)	Tube (metr.)	Tube (in.)	T1	D1	D2	L1	L2	S1	Weight (steel) kg/piece	Order code	PN (bar)[1] S
3/4	19	18, 20	3/4	**1 1/16-12UN**	15.5	38.1	70.4	6.7	35.0	0.21	**12XHQ1**	350
1	25	22, 25	7/8, 1	**1 5/16-12UN**	21.5	44.5	73.9	8.0	41.0	0.30	**16XHQ1**	350
1 1/4	32	28, 30, 32	1 1/4	**1 5/8-12UN**	27.5	50.8	85.3	8.0	47.5	0.31	**20XHQ1**	275
1 1/2	38	35, 38	1 1/2	**1 7/8-12UN**	33.5	60.3	90.7	8.0	54.0	0.56	**24XHQ1**	210
2	51	50	2	**2 1/2-12UN**	45.0	71.4	102.6	9.5	66.5	1.10	**32XHQ1**	138

6000 PSI Series

3/4	19	18. 20	3/4	**1 1/16-12UN**	15.5	41.3	78.2	8.8	35.0	0.21	**12XHQ2**	350
1	25	22. 25	7/8, 1	**1 5/16-12UN**	21.5	47.6	87.1	9.5	41.0	0.30	**16XHQ2**	350
1 1/4	32	28, 30, 32	1 1/4	**1 5/8-12UN**	27.5	54.0	91.4	10.3	47.5	0.31	**20XHQ2**	275
1 1/2	38	35. 38	1 1/2	**1 7/8-12UN**	33.5	63.5	110.2	12.6	54.0	0.56	**24XHQ2**	210

[1]) Pressure shown = Item deliverable

$\frac{\text{PN (bar)}}{10}$ = PN (MPa)

Stainless steel on request.

For associated flange halves depending on bolt sets, see Industrial Tube Fittings Europe Catalogue 4100.

Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example only flange adapter	Standard sealing material (no additional suffix needed)
Steel, oiled	S	12XHQ1-S	NBR

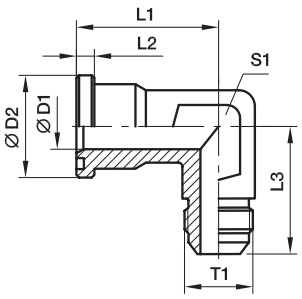
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SAE Flange adapters

XEMQ – SAE 90° Elbow flange adapter

SAE Flange/Triple-Lok® 37° flare end
(ISO 6162-1/-2)



3000 PSI Series

Nom. flange size		Tube									Weight (steel)		PN (bar)[1]	
SAE (in.)	ISO (DN)	(metr.)	(in.)	T1	D1	D2	L1	L2	L3	S1	kg/piece	Order code	S	SS
1/2	13	12	1/2	**3/4-16UNF**	10	30.2	44	6.7	50	22	0.20	**8XEMQ1**	350	350
1/2	13	14, 15, 16	5/8	**7/8-14UNF**	12	30.2	44	6.7	50	22	0.20	**10-8XEMQ1**	350	350
3/4	19	14, 15, 16	5/8	**7/8-14UNF**	19	38.1	53	6.7	64	27	0.29	**10-12XEMQ1**	350	350
3/4	19	18, 20	3/4	**1 1/16-12UN**	19	38.1	53	6.7	64	27	0.29	**12XEMQ1**	350	350
3/4	19	25	1	**1 5/16-12UN**	19	38.1	53	6.7	64	27	0.29	**16-12XEMQ1**	350	350
1	25	18, 20	3/4	**1 1/16-12UN**	22	44.4	60	8.0	65	34	0.39	**12-16XEMQ1**	350	350
1	25	25	1	**1 5/16-12UN**	22	44.4	60	8.0	65	34	0.39	**16XEMQ1**	350	350
1	25	30, 32	1 1/4	**1 5/8-12UN**	22	44.4	60	8.0	65	34	0.39	**20-16XEMQ1**	275	275
1 1/4	32	25	1	**1 5/16-12UN**	28	50.8	55	8.0	64	42	0.45	**16-20XEMQ1**	275	275
1 1/4	32	30, 32	1 1/4	**1 5/8-12UN**	28	50.8	55	8.0	64	42	0.45	**20XEMQ1**	275	275
1 1/2	38	30, 32	1 1/4	**1 5/8-12UN**	38	60.3	66	8.0	78	50	0.57	**20-24XEMQ1**	210	210
1 1/2	38	38	1 1/2	**1 7/8-12UN**	38	60.3	66	8.0	78	50	0.57	**24XEMQ1**	210	210

6000 PSI Series

1/2	13	12	1/2	**3/4-16UNF**	12	31.8	44	7.7	50	22	0.20	**8XEMQ2**	350	350
1/2	13	14, 15, 16	5/8	**7/8-14UNF**	12	31.8	44	7.7	50	22	0.20	**10-8XEMQ2**	350	350
3/4	19	14, 15, 16	5/8	**7/8-14UNF**	18	41.3	53	8.7	64	27	0.29	**10-12XEMQ2**	350	350
3/4	19	18, 20	3/4	**1 1/16-12UN**	18	41.3	53	8.7	64	27	0.29	**12XEMQ2**	350	350
3/4	19	25	1	**1 5/16-12UN**	18	41.3	53	8.7	64	27	0.29	**16-12XEMQ2**	350	350
1	25	18, 20	3/4	**1 1/16-12UN**	22	47.6	60	9.5	62	34	0.39	**12-16XEMQ2**	350	350
1	25	25	1	**1 5/16-12UN**	22	47.6	60	9.5	62	34	0.39	**16XEMQ2**	350	350
1	25	30, 32	1 1/4	**1 5/8-12UN**	22	47.6	60	9.5	62	34	0.39	**20-16XEMQ2**	275	275
1 1/4	32	25	1	**1 5/16-12UN**	27	54.0	70	10.3	70	42	0.45	**16-20XEMQ2**	350	350
1 1/4	32	30, 32	1 1/4	**1 5/8-12UN**	27	54.0	70	10.3	72	42	0.45	**20XEMQ2**	275	275
1 1/2	38	30, 32	1 1/4	**1 5/8-12UN**	32	63.5	80	12.5	87	50	0.57	**20-24XEMQ2**	275	275
1 1/2	38	38	1 1/2	**1 7/8-12UN**	32	63.5	80	12.5	87	50	0.57	**24XEMQ2**	210	210

[1]) Pressure shown = Item deliverable

$\frac{\text{PN (bar)}}{10}$ = PN (MPa)

For associated flange halves depending on bolt sets, see Industrial Tube Fittings Europe Catalogue 4100.

Stainless steel parts may have dimensional deviations. Additional information on request.

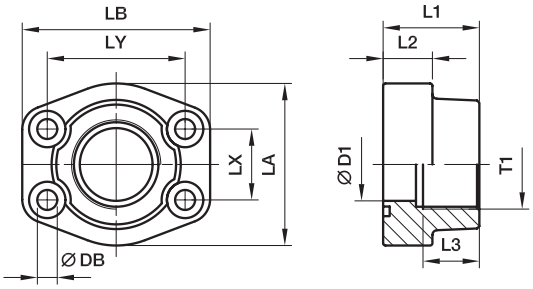
Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example only flange adapter	Standard sealing material (no additional suffix needed)
Steel, zinc plated, Cr(VI)-free	CF	8XEMQ1CF	NBR
Stainless steel	SS	8XEMQ1SS	VIT

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PFF-G – SAE Straight 4 bolt flange with BSPP thread

SAE Flange/Female BSPP thread
(ISO 6162-1/-2) (ISO 1179-1)



3000 PSI Series

Nom. flange size SAE (in.)	ISO (DN)	T1	D1	L1	L2	L3	LA	LB	LX	LY	DB	Weight (steel) kg/piece	Order code*	PN (bar)[1] S	SS
1/2	13	**G 3/8**	13	36	16	19.0	46	57	17.5	38.1	8.9	0.31	**PFF32G38**	345	345
1/2	13	**G 1/2**	13	36	16	19.0	46	57	17.5	38.1	8.9	0.28	**PFF32G**	345	345
3/4	19	**G 3/4**	19	36	18	19.0	50	65	22.3	47.6	10.6	0.39	**PFF33G**	345	345
3/4	19	**G 1/2**	13	36	18	19.0	50	65	22.3	47.6	10.6	0.42	**PFF33G12**	345	345
1	25	**G 1**	25	38	18	20.5	55	70	26.2	52.4	10.6	0.48	**PFF34G**	345	345
1	25	**G 3/4**	19	35	21	19.0	55	70	26.2	52.4	10.6	0.56	**PFF34G34**	345	345
1 1/4	32	**G 1 1/4**	31	41	21	22.0	68	79	30.2	58.7	10.6***	0.69	**PFF35G**	276	276
1 1/4	32	**G 1**	25	42	25	22.0	65	80	30.2	58.7	10.6***	0.82	**PFF35G1**	276	276
1 1/2	38	**G 1 1/2**	38	44	25	24.0	78	93	35.7	69.9	13.3	1.12	**PFF36G**	207	207
1 1/2	38	**G 1 1/4**	32	45	27	24.0	78	95	35.7	69.9	13.3	1.21	**PFF36G114**	207	207
2	51	**G 2**	50	45	25	26.0	89	103	42.9	77.8	13.5	1.27	**PFF38G**	207	207
2	51	**G 1 1/2**	38	45	25	26.0	89	103	42.9	77.8	13.5	1.44	**PFF38G112**	207	207
2 1/2	64	**G 2 1/2**	63	50	25	30.0	101	115	50.8	88.9	13.5	1.54	**PFF310G**	172	172
2 1/2	64	**G 2**	51	50	25	30.0	101	115	50.8	88.9	13.5	2.04	**PFF310G2**	172	172
3	76	**G 3**	73	50	27	34.0	124	135	61.9	106.4	16.7	2.28	**PFF312G**	138	138
3	76	**G 2 1/2**	63	50	27	30.0	124	135	61.9	106.4	16.7	2.57	**PFF312G212**	138	138
3 1/2	89	**G 3 1/2**	89	48	27	34.0	136	152	69.9	120.7	16.7	2.50	**PFF314G**	34	34
3 1/2	89	**G 3**	73	48	27	34.0	136	152	69.9	120.7	16.7	3.10	**PFF314G3**	34	34
4	102	**G 4**	99	48	27	34.0	146	162	77.8	130.2	16.7	2.65	**PFF316G**	34	34
4	102	**G 3 1/2**	89	48	27	34.0	146	162	77.8	130.2	16.7	3.30	**PFF316G312**	34	34
5	127	**G 5**	120	50	28	30.0	180	184	92.1	152.4	16.7	5.80	**PFF320G**	34	34
6000 PSI Series															
1/2	13	**G 3/8**	13	36	16	19	46	57	18.2	40.5	8.9	0.29	**PFF62G38**	420	420
1/2	13	**G 1/2**	13	36	16	15	46	57	18.2	40.5	8.9	0.30	**PFF62G**	420	420
3/4	19	**G 3/4**	19	35	21	22	55	71	23.8	50.8	10.6	0.53	**PFF63G**	420	420
3/4	19	**G 1/2**	13	35	21	22	55	71	23.8	50.8	10.6	0.56	**PFF63G12**	420	420
1	25	**G 1**	25	44	25	20	69	82	27.8	57.2	13.3***	0.83	**PFF64G**	420	420
1	25	**G 3/4**	19	42	25	24	65	81	27.8	57.2	13.3***	0.94	**PFF64G34**	420	420
1 1/4	32	**G 1 1/4**	31	44	27	22	79	96	31.8	66.6	15.0**	1.16	**PFF65G**	420	420
1 1/4	32	**G 1 1/4**	32	45	27	25	78	95	31.8	66.6	13.3	1.23	**PFF65/12G**	420	420
1 1/4	32	**G 1**	25	45	27	25	78	95	31.8	66.6	15.0**	1.26	**PFF65G1**	420	420
1 1/4	32	**G 1**	25	45	27	25	78	95	31.8	66.6	13.3	1.26	**PFF65/12G1**	420	420
1 1/2	38	**G 1 1/2**	38	51	30	24	88	107	36.5	79.3	16.7	1.64	**PFF66G**	420	420
1 1/2	38	**G 1 1/4**	32	50	30	28	94	112	36.5	79.3	16.7	1.97	**PFF66G114**	420	420
2	51	**G 2**	50	70	37	33	117	136	44.5	96.8	20.6	3.31	**PFF68G**	420	420
2	51	**G 1 1/2**	38	65	37	30	114	134	44.5	96.8	20.6	3.54	**PFF68G112**	420	420
2 1/2	64	**G 2 1/2**	63	80	45	32	152	180	58.7	123.8	25.0	3.05	**PFF610G**	420	420
3	76	**G 3**	73	90	55	40	178	208	71.4	152.4	31.0	3.45	**PFF612G**	420	420

*Please change suffixes according to material/surface required

Order code suffixes					
Material	Suffix surface and material	Example only 4 bolt flange	Example 4 bolt flange incl. metr. bolts and O-Ring	Example 4 bolt flange incl. UNC bolts and O-Ring	Standard sealing material (no additional suffix needed)
Steel, oil dipped	S	PFF32G38S	PFF32G38SM	PFF32G38SU	NBR
Stainless steel	SS	PFF32G38SS	PFF32G38SSM	-	VIT
Steel, zinc plated, Cr(VI)-free	CF	PFF32G38CF	PFF32G38CFM	PFF32G38CFU	NBR

**DB = 13.3 for UNC bolts
*** = 12 for UNC bolts
[1]) Pressure shown = Item deliverable

$$\frac{\text{PN (bar)}}{10} = \text{PN (MPa)}$$

Stainless steel parts may have dimensional deviations. Additional information on request.

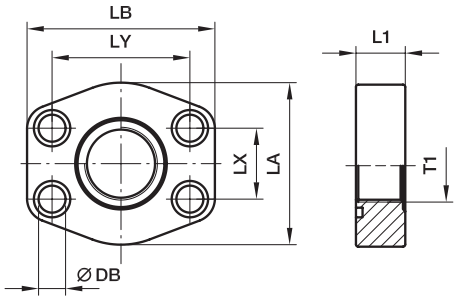
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PAFSF-G – SAE Straight 4 bolt flange flat with BSPP thread

SAE Flange/Female BSPP thread
(ISO 6162-1/-2) (ISO 1179-1)

only for low pressure applications



3000 PSI Series

Nom. flange size SAE (in.)	Nom. flange size ISO (DN)	T1	L1	LA	LB	LX	LY	DB	Bolts (metr.)	Bolts (unc.)	O-ring	Weight (steel) kg/piece	Order code	PN (bar)[1] S	PN (bar)[1] SS
1/2	13	**G 3/8**	16	46	58	17.5	38.1	8.9	M 08×30	5/16×1 1/4	**Standard**	0.20	**PAFSF080G38**	40	40
1/2	13	**G 1/2**	16	46	58	17.5	38.1	8.9	M 08×30	5/16×1 1/4	**OR25.07x2.62x**	0.27	**PAFSF080G**	40	40
3/4	19	**G 1/2**	18	49	66	22.3	47.6	10.6	M 10×35	3/8×1 1/2	**Standard**	0.29	**PAFSF100G12**	40	40
3/4	19	**G 3/4**	18	49	66	22.3	47.6	10.6	M 10×35	3/8×1 1/2	**OR31.34X3.53X**	0.27	**PAFSF100G**	40	40
1	25	**G 3/4**	19	53	71	26.2	52.4	10.6	M 10×35	3/8×1 1/2	**Standard**	0.37	**PAFSF102G34**	40	40
1	25	**G 1**	19	53	71	26.2	52.4	10.6	M 10×35	3/8×1 1/2	**OR37.7X3.53X**	0.32	**PAFSF102G**	40	40
1 1/4	32	**G 1**	21	69	80	30.2	58.7	10.6***	M 10×35	7/16×1 1/2	**Standard**	0.57	**PAFSF104G1**	40	40
1 1/4	32	**G 1 1/4**	21	69	80	30.2	58.7	10.6***	M 10×35	7/16×1 1/2	**OR44.45X3.53X**	0.62	**PAFSF104G**	40	40
1 1/2	38	**G 1 1/4**	24	77	95	35.7	69.9	13.3	M 12×45	1/2×1 3/4	**Standard**	0.83	**PAFSF106G114**	40	40
1 1/2	38	**G 1 1/2**	24	77	95	35.7	69.9	13.3	M 12×45	1/2×1 3/4	**OR52.39X3.53X**	0.79	**PAFSF106G**	40	40
2	51	**G 1 1/2**	24	89	103	42.9	77.8	13.5	M 12×45	1/2×1 3/4	**Standard**	1.00	**PAFSF108G112**	40	40
2	51	**G 2**	24	89	103	42.9	77.8	13.5	M 12×45	1/2×1 3/4	**OR65.09X3.53X**	0.90	**PAFSF108G**	40	40
2 1/2	64	**G 2**	25	101	116	50.8	88.9	13.5	M 12×45	1/2×1 3/4	**Standard**	1.30	**PAFSF110G2**	40	40
2 1/2	64	**G 2 1/2**	25	101	116	50.8	88.9	13.5	M 12×45	1/2×1 3/4	**OR78.97X3.53X**	1.25	**PAFSF110G**	40	40
3	76	**G 2 1/2**	25	124	136	61.9	106.4	16.7	M 16×55	5/8×2 1/4	**Standard**	1.86	**PAFSF112G212**	30	30
3	76	**G 3**	25	124	136	61.9	106.4	16.7	M 16×55	5/8×2 1/4	**OR94.84X3.53X**	1.49	**PAFSF112G**	30	30
3 1/2	89	**G 3**	25	136	152	69.9	120.7	16.7	M 16×55	5/8×2 1/4	**Standard**	1.68	**PAFSF114G3**	30	30
3 1/2	89	**G 3 1/2**	25	136	152	69.9	120.7	16.7	M 16×55	5/8×2 1/4	**OR107.5X3.53X**	1.59	**PAFSF114G**	30	30
4	102	**G 3 1/2**	25	146	162	77.8	130.2	16.7	M 16×55	5/8×2 1/4	**Standard**	2.35	**PAFSF116G312**	30	30
4	102	**G 4**	25	146	162	77.8	130.2	16.7	M 16×55	5/8×2 1/4	**OR117.1X3.53X**	2.25	**PAFSF116G**	30	30
5	127	**G 4**	25	180	184	92.1	152.4	16.7	M 16×55	5/8×2 1/4	**Standard**	3.45	**PAFSF118G4**	30	30
5	127	**G 5**	25	180	184	92.1	152.4	16.7	M 16×55	5/8×2 1/4	**OR145.6X3.53X**	3.15	**PAFSF118G**	30	30
6000 PSI Series															
1/2	13	**G 3/8**	16	46	58	18.2	40.5	8.9	M 08×30	5/16×1 1/4	**Standard**	0.25	**PAFSF401G38**	40	40
1/2	13	**G 1/2**	16	46	58	18.2	40.5	8.9	M 08×30	5/16×1 1/4	**OR25.07X2.62X**	0.20	**PAFSF401G**	40	40
3/4	19	**G 1/2**	19	53	71	23.8	50.8	10.6	M 10×35	3/8×1 1/2	**Standard**	0.37	**PAFSF402G12**	40	40
3/4	19	**G 3/4**	19	60	71	23.8	50.8	10.6	M 10×35	3/8×1 1/2	**OR32.92X3.53X**	0.36	**PAFSF402G**	40	40
1	25	**G 3/4**	24	66	80	27.8	57.2	13.3***	M 12×45	7/16×1 1/2	**Standard**	0.64	**PAFSF403G34**	40	40
1	25	**G 1**	24	66	80	27.8	57.2	13.3***	M 12×45	7/16×1 1/2	**OR37.7X3.53X**	0.60	**PAFSF403G**	40	40
1 1/4	32	**G 1**	27	77	94	31.8	66.6	15.0**	M 14×50	1/2×1 3/4	**Standard**	0.88	**PAFSF404G1**	40	40
1 1/4	32	**G 1**	27	77	94	31.8	66.6	13.3	M 12×50	–	**Standard**	0.88	**PAFSF404/12G1**	40	40
1 1/4	32	**G 1 1/4**	27	77	94	31.8	66.6	15.0**	M 14×50	1/2×1 3/4	**OR44.45X3.53X**	0.87	**PAFSF404G**	40	40
1 1/4	32	**G 1 1/4**	27	77	94	31.8	66.6	13.3	M 12×50	–	**OR44.45X3.53X**	0.87	**PAFSF404/12G**	40	40
1 1/2	38	**G 1 1/4**	30	89	103	36.5	79.3	16.7	M 16×55	5/8×2 1/4	**Standard**	1.14	**PAFSF405G114**	40	40
1 1/2	38	**G 1 1/2**	30	89	103	36.5	79.3	16.7	M 16×55	5/8×2 1/4	**OR52.39X3.53X**	1.01	**PAFSF405G**	40	40
2	51	**G 1 1/2**	35	123	135	44.5	96.8	20.6	M 20×70	3/4×2 3/4	**Standard**	2.94	**PAFSF406G112**	40	40
2	51	**G 2**	35	123	135	44.5	96.8	20.6	M 20×70	3/4×2 3/4	**OR65.09X3.53X**	2.84	**PAFSF406G**	40	40

Please change suffixes according to material/surface required

Order code suffixes					
Material	Suffix surface and material	Example only 4 bolt flange	Example 4 bolt flange incl. metr. bolts and O-ring	Example 4 bolt flange incl. UNC bolts and O-ring	Standard sealing material (no additional suffix needed)
Steel, oil dipped	S	PAFSF080GS	PAFSF080GSM	PAFSF080GSU	NBR
Stainless steel	SS	PAFSF080GSS	PAFSF080GSSM	–	VIT

**DB = 13.3 for UNC bolts
*** = 12 for UNC bolts
[1]) Pressure shown = Item deliverable

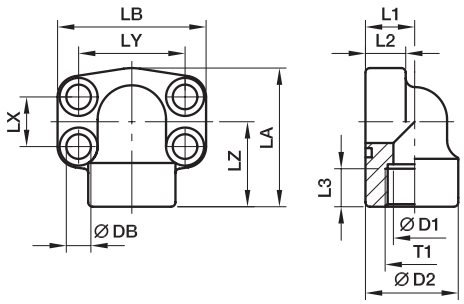
$$\frac{\text{PN (bar)}}{10} = \text{PN (MPa)}$$

Stainless steel parts may have dimensional deviations. Additional information on request.

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PEFF-G – SAE 90° 4 bolt flange with BSPP thread

SAE 90° Flange/Female BSPP thread
(ISO 6162-1/-2) (ISO 1179-1)



3000 PSI Series

Nom. flange size SAE (in.)	Nom. flange size ISO (DN)	T1	D1	D2	L1	L2	L3	LA	LB	LX	LY	LZ	DB	Bolts (metr.)	Bolts (unc.)	Weight (steel) kg/piece	Order code	PN (bar)[1] S	PN (bar)[1] SS
1/2	13	**G 1/2**	13	34.0	18	16	16	59	57	17.5	38.1	36	8.9	M 08×30	5/16×1 1/4	0.33	**PEFF32G**	348	348
3/4	19	**G 3/4**	19	38.5	22	18	19	63	68	22.3	47.6	38	10.6	M 10×35	3/8×1 1/2	0.52	**PEFF33G**	348	348
1	25	**G 1**	25	44.5	28	19	19	68	72	26.2	52.4	41	10.6	M 10×35	3/8×1 1/2	0.64	**PEFF34G**	348	348
1 1/4	32	**G 1 1/4**	31	53.5	30	22	22	84	81	30.2	58.7	50	10.6***	M 10×35	7/16×1 1/2	0.99	**PEFF35G**	278	278
1 1/2	38	**G 1 1/2**	38	62.5	36	25	24	97	93	35.7	69.9	58	13.3	M 12×45	1/2×1 3/4	1.42	**PEFF36G**	210	210
2	51	**G 2**	50	77.0	41	25	26	109	105	42.9	77.8	65	13.5	M 12×45	1/2×1 3/4	2.00	**PEFF38G**	210	210
2 1/2	64	**G 2 1/2**	60	89.0	50	25	30	127	115	50.8	88.9	77	13.5	M 12×45	1/2×1 3/4	2.90	**PEFF310G**	175	175

6000 PSI Series

1/2	13	**G 1/2**	13	34.0	18	16	16	59	57	18.2	40.5	36	8.9	M 08×30	5/16×1 1/4	0.33	**PEFF62G**	420	420
3/4	19	**G 3/4**	19	44.5	28	20	22	68	72	23.8	50.8	41	10.6	M 10×35	3/8×1 1/2	0.80	**PEFF63G**	420	420
1	25	**G 1**	25	53.5	30	24	24	84	82	27.8	57.2	50	13.3***	M 12×45	7/16×1 1/2	1.16	**PEFF64G**	420	420
1 1/4	32	**G 1 1/4**	31	62.5	36	25	25	97	97	31.8	66.6	58	15.0**	M 14×50	1/2×1 3/4	1.66	**PEFF65G**	420	420
1 1/4	32	**G 1 1/4**	31	62.5	36	25	25	97	97	31.8	66.6	58	13.3	M 12×50	–	1.66	**PEFF65/12G**	420	420
1 1/2	38	**G 1 1/2**	38	62.0	41	26	23	109	109	36.5	79.3	65	16.7	M 16×55	5/8×2 1/4	2.24	**PEFF66G**	420	420
2	51	**G 2**	50	87.0	45	35	34	133	133	44.5	96.8	75	20.6	M 20×70	3/4×2 3/4	3.85	**PEFF68G**	420	420

** DB = 13.3 for UNC Bolts

***DB = 12 for UNC Bolts

[1]) Pressure shown = Item deliverable

$\frac{\text{PN (bar)}}{10}$ = PN (MPa)

Stainless steel parts may have dimensional deviations. Additional information on request.

Please change suffixes according to material/surface required

Order code suffixes					
Material	Suffix surface and material	Example only 4 bolt flange	Example 4 bolt flange incl. metr. bolts and O-Ring	Example 4 bolt flange incl. UNC bolts and O-Ring	Standard sealing material (no additional suffix needed)
Steel, oil dipped	S	PEFF32GS	PEFF32GSM	PEFF32GSU	NBR
Stainless steel	SS	PEFF32GSS	PEFF32GSSM	-	VIT

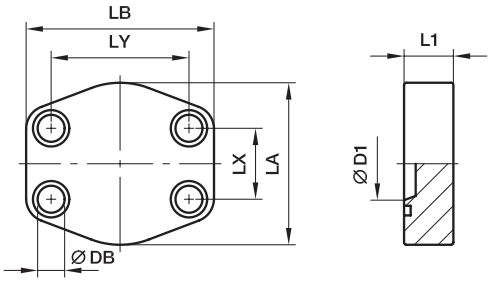
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SAE Flange adapters

PCFF – SAE Closed flange

SAE Closed flange
(ISO 6162-1/-2)



3000 PSI Series

Nom. flange size SAE (in.)	Nom. flange size ISO (DN)	D1	L1	LA	LB	LX	LY	DB	Bolts (metr.)	Bolts (unc.)	Weight (steel) kg/piece	Order code	PN (bar)[1] S	PN (bar)[1] SS
1/2	13	13	16	47	58	17.5	38.1	8.9	M 08×30	5/16×1 1/4	0.25	**PCFF32**	345	345
3/4	19	16	18	49	66	22.3	47.6	10.6	M 10×35	3/8×1 1/2	0.36	**PCFF33**	345	345
1	25	25	19	53	71	26.2	52.4	10.6	M 10×35	3/8×1 1/2	0.43	**PCFF34**	345	345
1 1/4	32	25	21	69	80	30.2	58.7	10.6***	M 10×40	7/16×1 1/2	0.71	**PCFF35**	276	276
1 1/2	38	34	25	77	95	35.7	69.9	13.3	M 12×45	1/2×1 3/4	1.11	**PCFF36**	207	207
2	51	43	25	89	103	42.9	77.8	13.3	M 12×45	1/2×1 3/4	1.38	**PCFF38**	207	207
2 1/2	64	61	25	101	116	50.8	88.9	13.3	M 12×45	1/2×1 3/4	1.77	**PCFF310**	172	172
3	76	60	27	124	136	61.9	106.4	16.7	M 16×55	5/8×2 1/4	2.72	**PCFF312**	138	138
3 1/2	89	73	27	136	152	69.9	120.7	16.7	M 16×55	5/8×2 1/4	3.77	**PCFF314**	34	34
4	102	87	27	146	162	77.8	130.2	16.7	M 16×55	5/8×2 1/4	4.20	**PCFF316**	34	34
5	127	127	25	180	184	92.1	152.4	16.7	M 16×55	5/8×2 1/4	6.42	**PCFF320**	34	34

6000 PSI Series

1/2	13	13	16	47	58	18.2	40.5	8.9	M 08×30	5/16×1 1/4	0.25	**PCFF62**	420	420
3/4	19	20	19	53	71	23.8	50.8	10.6	M 10×35	3/8×1 1/2	0.46	**PCFF63**	420	420
1	25	25	24	66	80	27.8	57.2	13.3***	M 12×45	7/16×1 1/2	0.78	**PCFF64**	420	420
1 1/4	32	25	27	77	94	31.8	66.6	15.0**	M 14×50	1/2×1 3/4	1.17	**PCFF65**	420	420
1 1/4	32	25	27	77	94	31.8	66.6	13.3	M 12×50	–	1.17	**PCFF65/12**	420	420
1 1/2	38	34	30	89	107	36.5	79.3	16.7	M 16×55	5/8×2 1/4	1.62	**PCFF66**	420	420
2	51	46	37	116	135	44.5	96.8	20.6	M 20×70	3/4×2 3/4	3.40	**PCFF68**	420	420
2 1/2	64	56	45	150	166	58.7	123.8	25.0	M 24×90	–	6.77	**PCFF610**	420	420
3	76	81	55	178	208	71.4	152.4	32.0	M 30×110	–	12.36	**PCFF612**	420	420

** DB = 13.3 for UNC Bolts
***DB = 12 for UNC Bolts
[1]) Pressure shown = Item deliverable

$\frac{\text{PN (bar)}}{10}$ = PN (MPa)

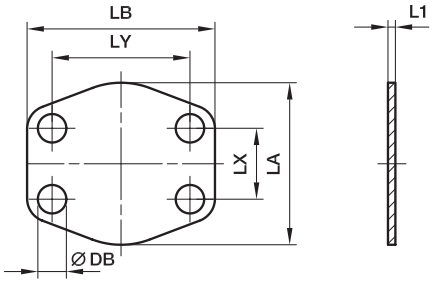
Stainless steel parts may have dimensional deviations. Additional information on request.

Please change suffixes according to material/surface required

Order code suffixes					
Material	Suffix surface and material	Example only closed flange	Example closed flange incl. metr. bolts and O-ring	Example closed flange incl. UNC bolts and O-ring	Standard sealing material (no additional suffix needed)
Steel, blanc oil dipped	S	PCFF32S	PCFF32SM	PCFF32SU	NBR
Stainless steel	SS	PCFF32SS	PCFF32SSM	–	VIT

AP – SAE Flange locking plate

ISO 6162-1/-2



3000 PSI Series

Nom. flange size SAE (in.)	Nom. flange size ISO (DN)	L1	LA	LB	LX	LY	DB	Weight (steel) kg/piece	Order code	PN (bar) CF	PN (bar) SS
1/2	13	3	47	57	17.5	38.1	9.0	0.05	**8AP1**	–	–
3/4	19	3	49	66	22.3	47.6	11.0	0.06	**12AP1**	–	–
1	25	3	59	71	26.2	52.4	11.0	0.07	**16AP1**	–	–
1 1/4	32	3	69	80	30.2	58.7	11.5	0.10	**20AP1**	–	–
1 1/2	38	3	77	95	35.7	69.9	13.5	0.15	**24AP1**	–	–
2	51	3	97	103	42.9	77.8	13.5	0.19	**32AP1**	–	–
2 1/2	64	3	109	116	50.8	89.9	13.5	0.22	**40AP1**	–	–
3	76	4	131	136	61.9	106.4	17.0	0.40	**48AP1**	–	–
3 1/2	89	4	136	152	69.9	102.7	17.0	0.53	**56AP1**	–	–
4	102	4	146	162	77.8	130.2	17.0	0.61	**64AP1**	–	–
5	127	4	181	184	92.1	152.4	17.0	0.86	**80AP1**	–	–

6000 PSI Series

1/2	13	4	48	57	18.2	40.5	9.0	0.02	**8AP2**	–	–
3/4	19	4	60	71	23.8	50.8	11.0	0.10	**12AP2**	–	–
1	25	4	70	81	27.8	57.2	13.0	0.12	**16AP2**	–	–
1 1/4	32	4	78	95	31.8	66.6	15.0	0.17	**20AP2**	–	–
1 1/2	38	4	95	113	36.5	79.4	17.0	0.22	**24AP2**	–	–
2	51	4	117	135	44.5	96.8	21.0	0.36	**32AP2**	–	–
2 1/2	64	4	150	176	58.7	123.8	25.0	0.58	**40AP2**	–	–
3	76	4	178	210	71.4	152.4	32.0	0.86	**48AP2**	–	–

This flange locking plate is not used under pressure.

Stainless steel parts may have dimensional deviations. Additional information on request.

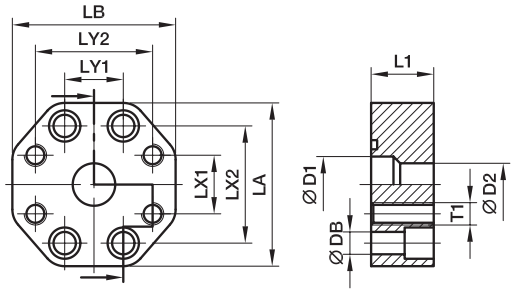
Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Description
Steel, zinc plated, Cr(VI)-free	CF	8AP1CF	only locking plate
Stainless steel	SS	8AP1SS	only locking plate

SAE Flange adapters

PRF – SAE Straight reducing flange adapter

SAE 3000
ISO 6162-1



3000 PSI Series

Nom. flange size SAE (in.)	Nom. flange size ISO (DN)	D1	D2	L1	LA	LB	LX1	LX2	LY1	LY2	DB	Bolts (metr.)	T1	Weight (steel) kg/piece	Order code	PN (bar)[1] S
1×1	25/25	25	25	28	73	73	26.2	52.4	26.2	52.4	10.6	M 10×30	**M10**	0.75	**PRF102/102**	210
1×3/4	25/19	25	19	28	73	73	22.3	52.4	26.2	47.6	10.6	M 10×30	**M10**	0.76	**PRF102/100**	210
1 1/4×1 1/4	32/32	30	30	28	80	80	30.2	58.7	30.2	58.7	10.6	M 10×30	**M10**	0.83	**PRF104/104**	210
1 1/4×1	32/25	30	25	28	80	71	26.2	58.7	30.2	52.4	10.6	M 10×30	**M10**	0.95	**PRF104/102**	210
1 1/2×1 1/2	38/38	38	38	32	94	94	35.7	69.9	35.7	69.9	13.3	M 12×35	**M12**	1.20	**PRF106/106**	210
1 1/2×1 1/4	38/32	38	30	32	94	80	30.2	69.9	35.7	58.7	13.3	M 12×35	**M10**	1.36	**PRF106/104**	210
2×2	51/51	50	50	33	103	103	42.9	77.8	42.9	77.8	13.3	M 12×35	**M12**	1.56	**PRF108/108**	210
2×1 1/2	51/38	50	38	33	103	94	35.7	77.8	42.9	70.0	13.3	M 12×35	**M12**	1.69	**PRF108/106**	210
2 1/2×2 1/2	64/64	63	63	33	115	115	50.8	88.9	50.8	88.9	13.3	M 12×35	**M12**	2.05	**PRF110/110**	175
2 1/2×2	64/51	63	50	33	115	103	42.9	88.9	50.8	77.8	13.3	M 12×35	**M12**	2.04	**PRF110/108**	175
3×3	76/76	73	73	36	135	135	61.9	106.4	61.9	106.4	16.7	M 16×40	**M16**	2.61	**PRF112/112**	138
3×2 1/2	76/64	73	63	36	135	115	50.8	106.4	61.9	89.0	16.7	M 16×40	**M12**	2.61	**PRF112/110**	138

6000 PSI Series

3/4×3/4	19/19	19	19	28	73	73	23.8	50.8	23.8	50.8	10.6	M 10×30	**M10**	0.80	**PRF402/402**	420
1×1	25/25	25	25	33	80	80	27.8	57.2	27.8	57.2	13.3	M 12×35	**M12**	1.03	**PRF403/403**	420
1×3/4	25/19	25	19	33	80	71	23.8	57.2	27.8	50.8	13.3	M 12×35	**M10**	0.98	**PRF403/402**	420
1 1/4×1 1/4	32/32	30	30	33	94	94	31.8	66.6	31.8	66.6	15.0	M 14×35	**M14**	1.47	**PRF404/404**	420
1 1/4×1 1/4	32/32	30	30	33	94	94	31.8	66.6	31.8	66.6	13.3	M 12×32	**M12**	1.47	**PRF404/12/404/12**	420
1 1/4×1	32/25	30	25	33	94	80	27.8	66.6	31.8	57.2	15.0	M 14×35	**M12**	1.26	**PRF404/403**	420
1 1/4×1	32/25	30	25	33	94	80	27.8	66.6	31.8	57.2	13.3	M 12×35	**M12**	1.26	**PRF404/12/403**	420
1 1/2×1 1/2	38/38	38	38	48	106	106	36.5	79.3	36.5	79.3	16.7	M 16×50	**M16**	1.72	**PRF405/405**	420
1 1/2×1 1/4	38/32	38	30	48	106	94	31.8	79.3	36.5	66.6	16.7	M 16×50	**M14**	2.32	**PRF405/404**	420
1 1/2×1 1/4	38/32	38	30	48	106	94	31.8	79.3	36.5	66.6	16.7	M 16×50	**M12**	2.32	**PRF405/404/12**	420
2×2	51/51	50	50	48	135	135	44.5	96.8	44.5	96.8	20.6	M 20×55	**M20**	4.20	**PRF406/406**	420
2×1 1/2	51/38	50	38	48	135	106	36.5	96.8	44.5	79.3	20.6	M 20×55	**M16**	3.35	**PRF406/405**	420
2 1/2×2	64/51	63	50	53	166	150	44.5	123.8	58.7	96.8	25.0	M 24×60	**M20**	6.40	**PRF408/406**	420
3×2	76/51	73	50	58	208	178	44.5	152.4	71.4	96.8	31.0	M 30×70	**M20**	10.40	**PRF410/406**	420

[1]) Pressure shown = Item deliverable

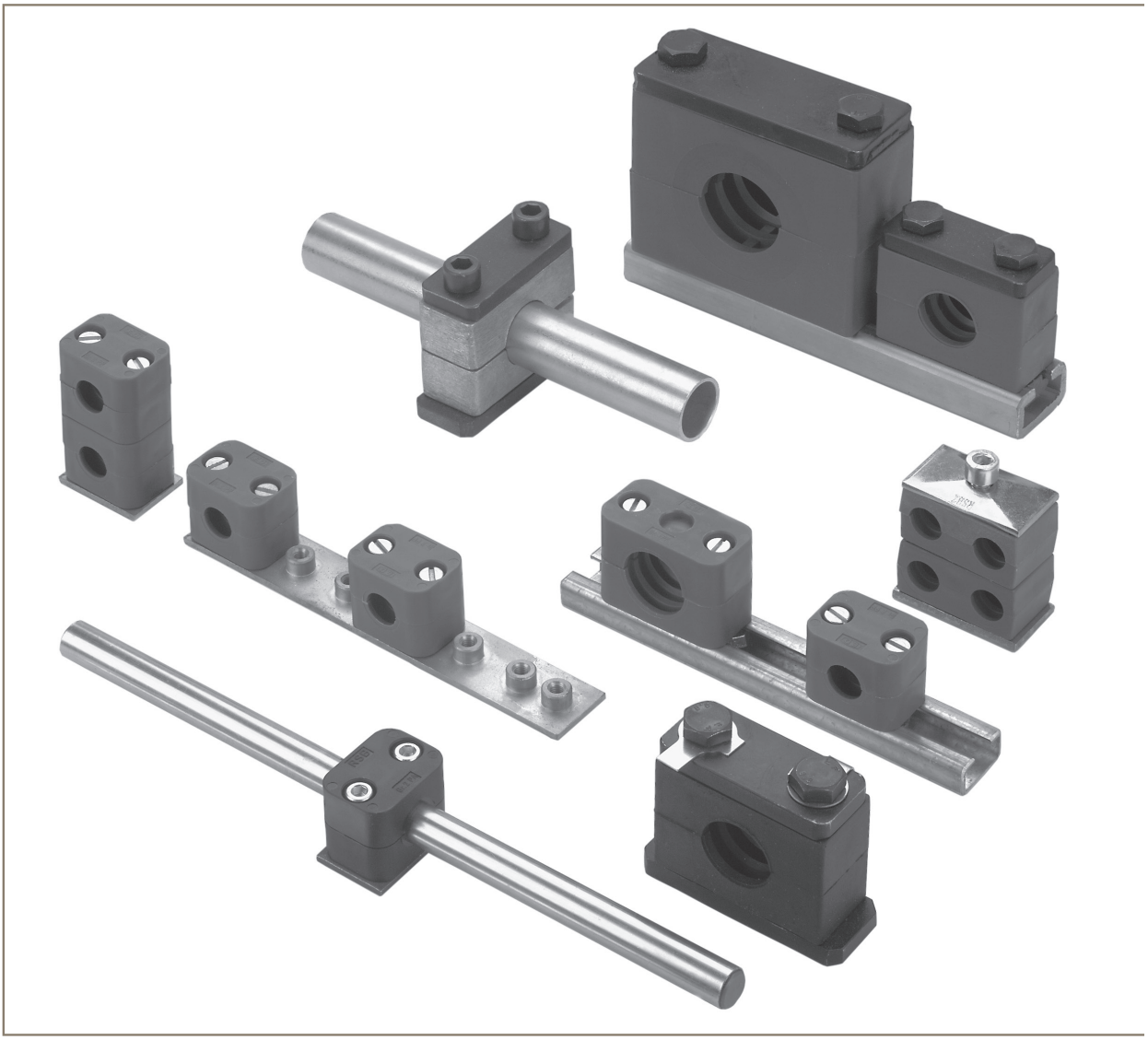
$\frac{\text{PN (bar)}}{10}$ = PN (MPa)

Stainless steel parts may have dimensional deviations. Additional information on request.

Please change suffixes according to material/surface required

Order code suffixes			
Material	Suffix surface and material	Example	Description
Steel, blanc oil dipped	S	PRF102/102S	only flange
Stainless steel	SS	PRF102/102SS	only flange

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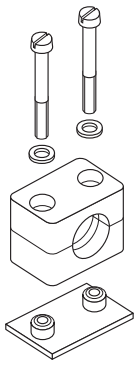
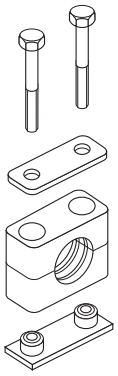
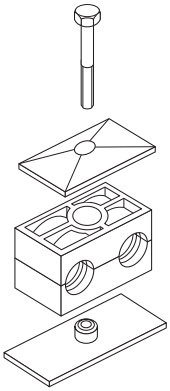
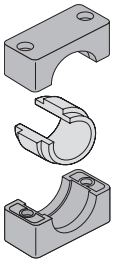


Tube clamps

This chapter contains only a small selection.
An extended part range and more details can be found in chapter T of the catalogue 4100.

ENGINEERING YOUR SUCCESS.

Programme overview

Tube clamps series A	 Page 212 - 221	**Tube clamps series C**	 Page 227- 237
Tube clamps series B	 Page 222 - 226	**Tube clamps series C with absorbing noise insert**	 Page 238-240

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

Tube clamps

DIN 3015

Programme:

Tube clamps series A (according to DIN 3015 Part 1)

Available in seven standard sizes for normal mechanical requirements.
– Outer tube diameter for the metric series 6 to 57 mm
– Outer tube diameter for the inch-size series R 1/8″ to R 1 1/2″
– Outer tube diameter for the imperial size series 1/4″ to 2 1/2″
The clamp body is available in a round/closed version.
Welding plates, rail-supports, cover plates and construction types.

Tube clamps series B (according to DIN 3015 Part 3)

Available as a twin tube clamp in five standard sizes for normal mechanical requirements.
Outer tube diameter 6 to 42 mm.
The clamp body is available in a square/open design.
Welding plates, rail-supports, cover plates and construction types.
Clamp halves with different diameters are only possible when used together.

Tube clamps series C (according to DIN 3015 Part 2)

Specially designed for high mechanical requirements, and available in eight standard sizes.
– Outer tube diameter 6 to 220 mm.
The clamp body is available in a square/closed design.
Welding plates, rail-supports, cover plates and construction types.

Design:

According to DIN 3015:
Both upper and lower clamp-halves are identical.
Webs inside the bore of the clamps provide an impact and vibration deadening effect, and absorb the forces towards the direction of the tube axis.
When using hoses and cables, we recommand the use of clamp halves with a smooth bore.

Clamp material:

Polypropylene	–30°C up to	+ 90° C	colour dark green
Polyamide	–40°C up to	+ 120° C	colour black
Rubber	–50°C up to	+ 120° C	colour black
Aluminium	up to	+ 300° C	

All metal parts available also in stainless steel.

Other materials upon request.

Stainless steel qualities
Stainless steel 1.4401/1.4571 (AISI 316/316 TI), resistent against rust and acid.

Accessories material:

Steel. Screws as well as cover plates of series A and B are galvanized.

Rail-supports are also available with zinc plated surface.

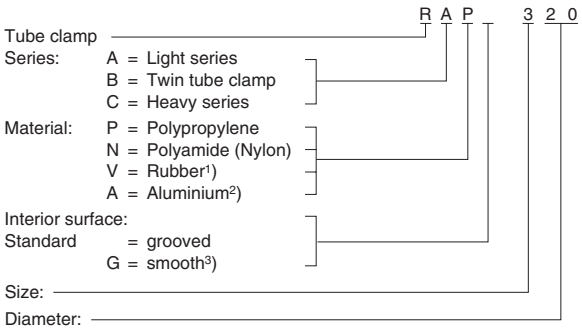
Resistance to stress:

The remarkable features of Tube Clamps are their considerable re-set capability, high tensile strength, as well as their very high output strength and excellent resistance to cold. The choice of design and clamp material depends on the specific demands of the mechanical and thermal requirements.

Order code:

The order code for clamp halves as well as the reference No. for complete tube clamps incorporates the serial indication, material description and interior surface.

Example of description:



1) Rubber only available for series A and B, inside smooth and series C grooved design
2) Aluminium only available for series A size 1 to 6 and series C size 1 to 8
3) Smooth interior surface in series C only to size 4
Aluminium clamps only available in a grooved design
Inside smooth series A only size 1 to 6

Registration:

On request

Tube clamps material properties

DIN 3015

Mechanical properties		Polypropylene (PP)	Polyamide 6 (PA 6)	Aluminium	Rubber
Density		0.906 g/cm³	1.12–1.15g/cm³	2.65 g/cm³	0.98 g/cm³
Flexural deflection	DIN 53452	36 N/mm²	130...200 N/mm²	70 N/mm²	–
Impact resistance	DIN 53453	no break	no break	–	
Compressive strength	DIN 53454	90 N/mm²	120 N/mm²	HB 500...600 N/mm²	A and B: 64° shore C: 73° shore
Modulus of elasticity	DIN 53452	1500 N/mm²	3000 N/mm²	70.000 N/mm²	
Tensile strength without breakage	DIN 53454	25–35 N/mm²	80–90 N/mm²	180 N/mm²	A and B: 6.1 N/mm² C: 8.5 N/mm²

Thermal properties				
Temp. resistance	–30 … + 90°C	–40 … + 120°C	300°C	–50 … +120°C

Chemical properties			
Weak acids	limited resistant	limited resistant	resistant
Weak alkalis	limited resistant	limited resistant	resistant
Alcohol	resistant	resistant	resistant
Petrol	limited resistant	resistant	limited resistant
Mineral oils	resistant	resistant	resistant
Other oils	resistant	resistant	resistant

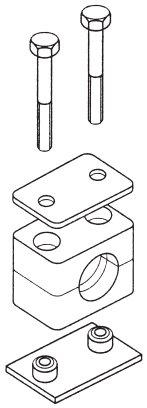
The outlined particulars are approximate values and are only shown for reference, which are not binding, and with regard to possible protection of third parties. They do not exempt you from your own examination of suitability of the products delivered by us. Therefore, these values can only be used in a limited way for guidance only.

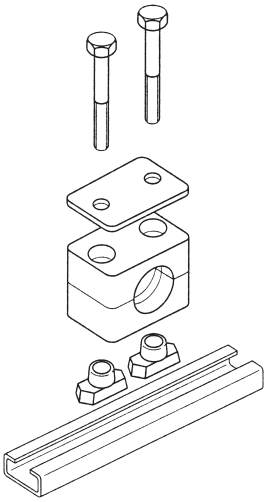
The application of the products is carried out outside of our control and, therefore, is exclusively subject to your own area of responsibility. Any claim however would be limited for all damages to the value of the goods supplied by us and in use by you.

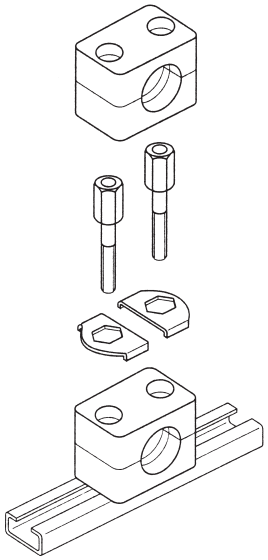
It goes without saying, that we guarantee the perfect quality of our products according to our general sales and delivery conditions.

Tube clamps assembly instruction

DIN 3015







Assembly:

Assembly on to metal welding plates

Place welding plates on a base appropriate for the load. Make sure that the clamps are properly aligned. Clamp lower clamp halve onto welding plate, insert tube, place upper clamp halve onto lower halve and fasten with the screws. Attention must be paid to the bias (after completed assembly, clamp halves may not be in contact)! Do not weld with fitted plastic clamp!
Extended welding plates may be screw-fastened to the base.

Assembly on support rails

Support rails are available in four different heights and come in pieces of 1 m or 2 m length, as required.
Weld on support rail or screw-fasten with fastening angle bracket. Insert support rail nuts in rail and turn until stoppage. For heavy duty construction series, nuts are simply pushed in. Clamp lower clamp half on support rail nuts, insert tube, place upper clamp halve onto lower halve and fasten with the screws. Before fastening the screws the clamp may still be positioned. Attention must be paid to the bias (after completed assembly, the clamp halves may not be in contact)!

Construction assembly

Clamps allow the assembly of multiple clamps of the same construction size and of different tube diameters one above the other. The construction assembly is carried out with special fixing screws that are secured against twisting by applying a locking plate. Clamp lower clamp halve on welding plate or support rail respectively, insert tube, place upper clamp halve on lower halve and fasten with fixing screws. The fixing screw juts out from the upper clamp halve. The application of a locking plate securely fastens the fixing screw and prevents twisting. Clamp on second clamp halve on to the fixing screws etc.

Tube clamps

Tube clamps series A (Light construction series) – Components

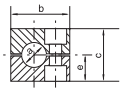
DIN 3015, part 1

Order code for clamp halves:

Polypropylene – **RAP**
Inside smooth – **RAPG**
Polyamide 6 – **RAN**
Inside smooth – **RANG**
Rubber – **RAVG**
Aluminium – **RAA**[1])

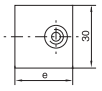
(Please exchange as required standard abbreviation RAP in column for "clamp halves")


size 0

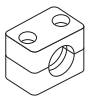


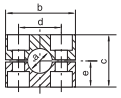
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size 0

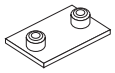


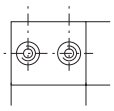
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size 1–6



size 1–6
Width: 30 mm


size 1–6

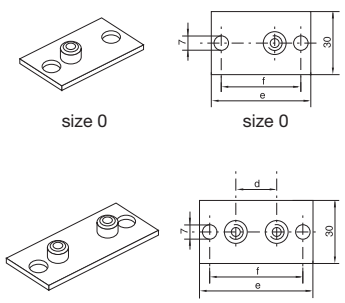

size 1–6
Thickness: 3 mm

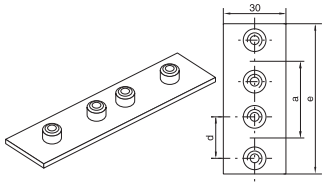
clamp size	Tube O.D. mm a	Tube NB	Tube O.D.	1 part 2 clamp halves RAP… Order code	dimensions: b	c	d	e	welding plate, short APK A… Order code	dimensions: d	e
0	6.0 6.4 8.0 9.5 10.0 12.0	G 1/8	1/4 5/16 3/8	**RAP006X** **RAP006.4X** **RAP008X** **RAP009.5X** **RAP010X** **RAP012X**	28	27	–	13.5	**APKA0X**		30
1	6.0 6.4 8.0 9.5 10.0 12.0	G 1/8	1/4 5/16 3/8	**RAP106X** **RAP106.4X** **RAP108X** **RAP109.5X** **RAP110X** **RAP112X**	34	27	20	13.5	**APKA1X**	20	36
2	12.7 13.5 14.0 15.0 16.0 17.2 18.0	G 1/4 G 3/8	1/2 5/8	**RAP212.7X** **RAP213.5X** **RAP214X** **RAP215X** **RAP216X** **RAP217.2X** **RAP218X**	40	33	26	16.5	**APKA2X**	26	42
3	19.0 20.0 21.3 22.0 23.0 25.0	G 1/2	3/4 1	**RAP319X** **RAP320X** **RAP321.3X** **RAP322X** **RAP323X** **RAP325X**	48	35	33	17.5	**APKA3X**	33	50
4	26.9 28.0 30.0	G 3/4		**RAP426.9X** **RAP428X** **RAP430X**	57	42	40	21	**APKA4X**	40	59
5	32.0 33.7 35.0 38.0 40.0 42.0	G 1 G 1 1/4	1 1/4 1 1/2	**RAP532X** **RAP533.7X** **RAP535X** **RAP538X** **RAP540X** **RAP542X**	70	58	52	29	**APKA5X**	52	72
6	44.5 45.0 48.0 50.0 50.8 52.0 55.0 57.0	G 1 1/2	1 3/4 2 2 1/4	**RAP644.5X** **RAP645X** **RAP648X** **RAP650X** **RAP650.8X** **RAP652X** **RAP655X** **RAP657X**	86	66	66	33	**APKA6X**	66	88

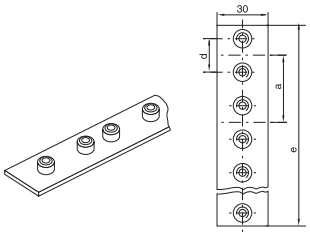
When assemblying solid rubber clamps, covering plates, hexagon screws and locking washers must be used. All metal parts available in stainless steel.
[1]) Aluminium only sizes 1 to 6.

Tube clamps series A (Light construction series) – Components

DIN 3015, part 1





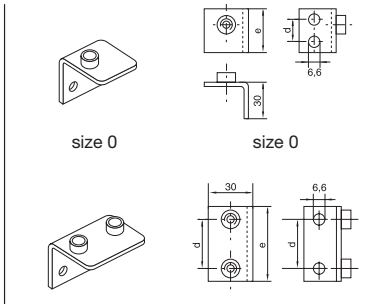


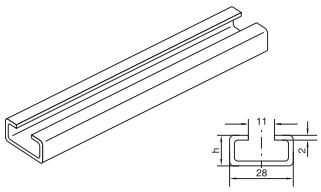
clamp size	weld/screw plate, long					twin welding plate				multiple weld plate			
	APL A... Order code	dimensions: d	e	f		**APD A...** Order code	dimensions: d	a	e	**APR A...** Order code	dimensions: d	a	e
0	**APLA0X**		58	44		**APDA0X**		30	61	**APRA0X (10 clamps)**		30	298
1	**APLA1X**	20	64	50		**APDA1X**	20	35	69	**APRA1X (10 clamps)**	20	35	349
2	**APLA2X**	26	70	56		**APDA2X**	26	43	86	**APRA2X (10 clamps)**	26	43	427
3	**APLA3X**	33	78	64		**APDA3X**	33	52	104	**APRA3X (10 clamps)**	33	52	516
4	**APLA4X**	40	87	73		**APDA4X**	40	60	117	**APRA4X (5 clamps)**	40	60	297
5	**APLA5X**	52	100	86		**APDA5X**	52	75	145	**APRA5X (5 clamps)**	52	75	370
6	**APLA6X**	66	116	100		**APDA6X**	66	90	176	**APRA6X (5 clamps)**	66	90	446

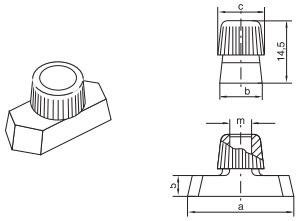
Metal parts also available in stainless steel.

Tube clamps series A (Light construction series) – Components

DIN 3015, part 1







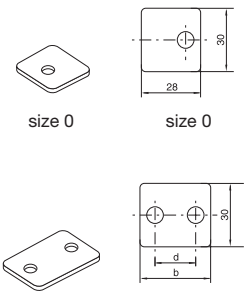
clamp size	weld plate, angled			mounting rail		rail nut				
	APW A… Order code	dimensions: d	e	**TS…A/B** Order code	dimensions: h	**TM…A/B1** Order code	dimensions: a	b	c	m
0	**APWA0X**	14	30	**TS11A/B1X** **TS11A/B2X** **TS14A/B1X** **TS14A/B2X** **TS30A/B1X** **TS30A/B2X**	TS11: 11 TS14: 14 TS30: 30	**TMA/TMB1VERZX**	25.4	10.4	12	M6
1	**APWA1X**	20	36							
2	**APWA2X**	26	42							
3	**APWA3X**	33	50							
4	**APWA4X**	40	59							
5	**APWA5X**	52	72							
6	**APWA6X**	66	88							

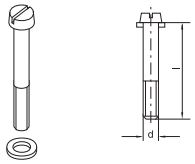
Metal parts also available in stainless steel.

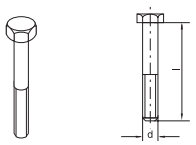
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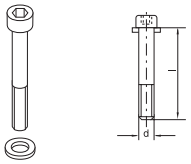
Tube clamps series A (Light construction series) – Components

DIN 3015, part 1







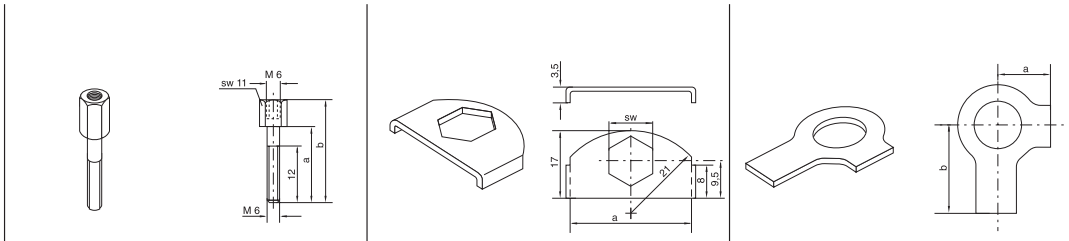


clamp size	cover plate			slot head		hexagon head		socket head	
	DP A... Order code	dimensions: b	d	**SL A...** Order code	dimensions: d × L	**SSL A...** Order code	dimensions: d × L	**IS A...** Order code	dimensions: d × L
0	**DPA0X**	–	–	**SLA0X**	M 6 × 20	**SSLA0X**	M 6 × 30	**ISA0X**	M 6 × 20
1	**DPA1X**	34	20	**SLA1X**	M 6 × 20	**SSLA0X**	M 6 × 30	**ISA1X**	M 6 × 20
2	**DPA2X**	40	26	**SLA2X**	M 6 × 25	**SSLA2/SSB1X**	M 6 × 35	**ISA2X**	M 6 × 25
3	**DPA3X**	48	33	**SLA3X**	M 6 × 30	**SSLA3X**	M 6 × 40	**ISA3X**	M 6 × 30
4	**DPA4X**	57	40	**SLA4X**	M 6 × 35	**SSLA4X**	M 6 × 45	**ISA4X**	M 6 × 35
5	**DPA5X**	70	52	**SLA5X**	M 6 × 50	**SSLA5X**	M 6 × 60	**ISA5X**	M 6 × 50
6	**DPA6X**	86	66	**SLA6X**	M 6 × 60	**SSLA6X**	M 6 × 70	**ISA6X**	M 6 × 60

All metal parts available in stainless steel.

Tube clamps series A (Light construction series) – Components

DIN 3015, part 1



clamp size	stacking[1]			locking plate[1]			locking washer[2]		
	AS A... Order code	dimensions: a	b	**SB A** Order code	dimensions: a	SW	**US A** Order code	dimensions: a	b
0	**ASA0X (AS B1X)**	20	34	**SBAX**	30	11	**USA/USB1X**	9	18
1	**ASA0X (ASB1X)**	20	34						
2	**ASA2X**	25	39						
3	**ASA3X**	30	44						
4	**ASA4X**	35	49						
5	**ASA5X**	50	64						
6	**ASA6X**	60	74						

[1]) The use of stacking bolts necessitates the use of locking plates in the construction assembly.
[2]) When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used.
Metal parts also available in stainless steel.

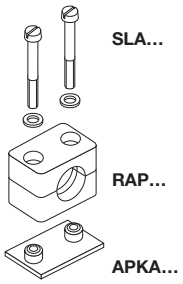
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Tube clamps series A (Light construction series) – Complete range

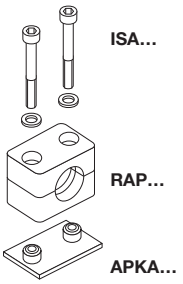
Polypropylene – **RAP**
Inside smooth – **RAPG**
Polyamide 6 – **RAN**
Inside smooth – **RANG**
Rubber – **RAVG***
Aluminium – **RAA**

(As required please exchange standard abbreviation RAP in column for "Order code")

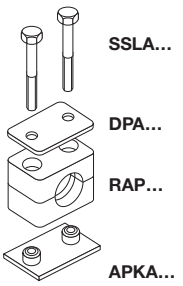
2 clamp halves, weld plate **short,** slot head bolts and bushes



2 clamp halves, weld plate **short,** socket head bolts and bushes



2 clamp halves, weld plate **short,** cover plate hex. head bolts



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code	Order code
	6.0			**RAP1–006**	**RAP2–006**	**RAP3–006**
	6.4		1/4	**RAP1–006.4**	**RAP2–006.4**	**RAP3–006.4**
0[1])	8.0		5/16	**RAP1–008**	**RAP2–008**	**RAP3–008**
	9.5		3/8	**RAP1–009.5**	**RAP2–009.5**	**RAP3–009.5**
	10.0	G 1/8		**RAP1–010**	**RAP2–010**	**RAP3–010**
	12.0			**RAP1–012**	**RAP2–012**	**RAP3–012**
	6.0			**RAP1–106**	**RAP2–106**	**RAP3–106**
	6.4		1/4	**RAP1–106.4**	**RAP2–106.4**	**RAP3–106.4**
1	8.0		5/16	**RAP1–108**	**RAP2–108**	**RAP3–108**
	9.5		3/8	**RAP1–109.5**	**RAP2–109.5**	**RAP3–109.5**
	10.0	G 1/8		**RAP1–110**	**RAP2–110**	**RAP3–110**
	12.0			**RAP1–112**	**RAP2–112**	**RAP3–112**
	12.7		1/2	**RAP1–212.7**	**RAP2–212.7**	**RAP3–212.7**
	13.5	G 1/4		**RAP1–213.5**	**RAP2–213.5**	**RAP3–213.5**
	14.0			**RAP1–214**	**RAP2–214**	**RAP3–214**
2	15.0			**RAP1–215**	**RAP2–215**	**RAP3–215**
	16.0		5/8	**RAP1–216**	**RAP2–216**	**RAP3–216**
	17.2	G 3/8		**RAP1–217.2**	**RAP2–217.2**	**RAP3–217.2**
	18.0			**RAP1–218**	**RAP2–218**	**RAP3–218**
	19.0		3/4	**RAP1–319**	**RAP2–319**	**RAP3–319**
	20.0			**RAP1–320**	**RAP2–320**	**RAP3–320**
3	21.3	G1/2		**RAP1–321.3**	**RAP2–321.3**	**RAP3–321.3**
	22.0			**RAP1–322**	**RAP2–322**	**RAP3–322**
	23.0			**RAP1–323**	**RAP2–323**	**RAP3–323**
	25.0		1	**RAP1–325**	**RAP2–325**	**RAP3–325**
	26.9	G 3/4		**RAP1–426.9**	**RAP2–426.9**	**RAP3–426.9**
4	28.0			**RAP1–428**	**RAP2–428**	**RAP3–428**
	30.0			**RAP1–430**	**RAP2–430**	**RAP3–430**
	32.0		1 1/4	**RAP1–532**	**RAP2–532**	**RAP3–532**
	33.7	G 1		**RAP1–533.7**	**RAP2–533.7**	**RAP3–533.7**
5	35.0			**RAP1–535**	**RAP2–535**	**RAP3–535**
	38.0		1 1/2	**RAP1–538**	**RAP2–538**	**RAP3–538**
	40.0			**RAP1–540**	**RAP2–540**	**RAP3–540**
	42.0	G 1 1/4		**RAP1–542**	**RAP2–542**	**RAP3–542**
	44.5		1 3/4	**RAP1–644.5**	**RAP2–644.5**	**RAP3–644.5**
	45.0			**RAP1–645**	**RAP2–645**	**RAP3–645**
	48.0	G 1 1/2		**RAP1–648**	**RAP2–648**	**RAP3–648**
6	50.0			**RAP1–650**	**RAP2–650**	**RAP3–650**
	50.8		2	**RAP1–650.8**	**RAP2–650.8**	**RAP3–650.8**
	52.0			**RAP1–652**	**RAP2–652**	**RAP3–652**
	55.0			**RAP1–655**	**RAP2–655**	**RAP3–655**
	57.0		2 1/4	**RAP1–657**	**RAP2–657**	**RAP3–657**

Delivery in unassembled individual components.

[1]) Contrary to the illustration size 0 clamps are secured by only one screw.

* Only with cover plate, hexagon screws and locking washers.

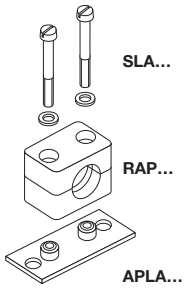
Tube clamps

Tube clamps series A (Light construction series) – Complete range

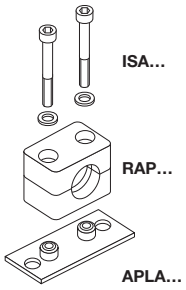
Polypropylene – **RAP**
Inside smooth – **RAPG**
Polyamide 6 – **RAN**
Inside smooth – **RANG**
Rubber – **RAVG***
Aluminium – **RAA**

(As required please exchange standard abbreviation RAP in column for "Order code")

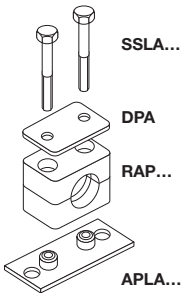
2 clamp halves, weld/ screw plate, slot head bolts and bushes



2 clamp halves, weld/ screw plate, socket head bolts and bushes



2 clamp halves, weld/ screw plate, cover plate and hex. head bolts



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code	Order code
	6.0			**RAP4–006**	**RAP5–006**	**RAP6–006**
	6.4		1/4	**RAP4–006.4**	**RAP5–006.4**	**RAP6–006.4**
0[1])	8.0		5/16	**RAP4–008**	**RAP5–008**	**RAP6–008**
	9.5		3/8	**RAP4–009.5**	**RAP5–009.5**	**RAP6–009.5**
	10.0	G 1/8		**RAP4–010**	**RAP5–010**	**RAP6–010**
	12.0			**RAP4–012**	**RAP5–012**	**RAP6–012**
	6.0			**RAP4–106**	**RAP5–106**	**RAP6–106**
	6.4		1/4	**RAP4–106.4**	**RAP5–106.4**	**RAP6–106.4**
1	8.0		5/16	**RAP4–108**	**RAP5–108**	**RAP6–108**
	9.5		3/8	**RAP4–109.5**	**RAP5–109.5**	**RAP6–109.5**
	10.0	G 1/8		**RAP4–110**	**RAP5–110**	**RAP6–110**
	12.0			**RAP4–112**	**RAP5–112**	**RAP6–112**
	12.7		1/2	**RAP4–212.7**	**RAP5–212.7**	**RAP6–212.7**
	13.5	G 1/4		**RAP4–213.5**	**RAP5–213.5**	**RAP6–213.5**
	14.0			**RAP4–214**	**RAP5–214**	**RAP6–214**
2	15.0			**RAP4–215**	**RAP5–215**	**RAP6–215**
	16.0		5/8	**RAP4–216**	**RAP5–216**	**RAP6–216**
	17.2	G 3/8		**RAP4–217.2**	**RAP5–217.2**	**RAP6–217.2**
	18.0			**RAP4–218**	**RAP5–218**	**RAP6–218**
	19.0		3/4	**RAP4–319**	**RAP5–319**	**RAP6–319**
	20.0			**RAP4–320**	**RAP5–320**	**RAP6–320**
3	21.3	G 1/2		**RAP4–321.3**	**RAP5–321.3**	**RAP6–321.3**
	22.0			**RAP4–322**	**RAP5–322**	**RAP6–322**
	23.0			**RAP4–323**	**RAP5–323**	**RAP6–323**
	25.0		1	**RAP4–325**	**RAP5–325**	**RAP6–325**
	26.9	G 3/4		**RAP4–426.9**	**RAP5–426.9**	**RAP6–426.9**
4	28.0			**RAP4–428**	**RAP5–428**	**RAP6–428**
	30.0			**RAP4–430**	**RAP5–430**	**RAP6–430**
	32.0		1 1/4	**RAP4–532**	**RAP5–532**	**RAP6–532**
	33.7	G 1		**RAP4–533.7**	**RAP5–533.7**	**RAP6–533.7**
5	35.0			**RAP4–535**	**RAP5–535**	**RAP6–535**
	38.0		1 1/2	**RAP4–538**	**RAP5–538**	**RAP6–538**
	40.0			**RAP4–540**	**RAP5–540**	**RAP6–540**
	42.0	G 1 1/4		**RAP4–542**	**RAP5–542**	**RAP6–542**
	44.5		1 3/4	**RAP4–644.5**	**RAP5–644.5**	**RAP6–644.5**
	45.0			**RAP4–645**	**RAP5–645**	**RAP6–645**
	48.0	G 1 1/2		**RAP4–648**	**RAP5–648**	**RAP6–648**
6	50.0			**RAP4–650**	**RAP5–650**	**RAP6–650**
	50.8		2	**RAP4–650.8**	**RAP5–650.8**	**RAP6–650.8**
	52.0			**RAP4–652**	**RAP5–652**	**RAP6–652**
	55.0			**RAP4–655**	**RAP5–655**	**RAP6–655**
	57.0		2 1/4	**RAP4–657**	**RAP5–657**	**RAP6–657**

Delivery in unassembled individual components.

[1]) Contrary to the illustration size 0 clamps are secured by only one screw.

* Only with cover plate, hexagon screws and locking washers.

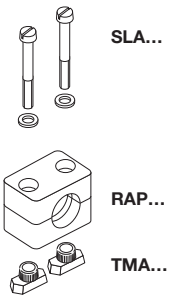
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Tube clamps series A (Light construction series) – Complete range

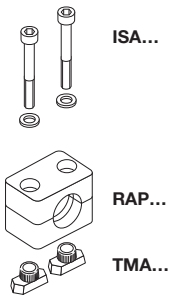
Polypropylene – **RAP**
Inside smooth – **RAPG**
Polyamide 6 – **RAN**
Inside smooth – **RANG**
Rubber – **RAVG***
Aluminium – **RAA**

(As required please exchange standard abbreviation RAP in column for "Order code")

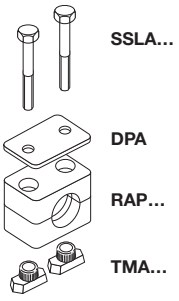
2 clamp halves, rail nuts, slot head bolts and bushes



2 clamp halves, rail nuts, socket head bolts and bushes



2 clamp halves, rail nuts, cover plate and hex. head bolts



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code	Order code
	6.0			**RAP9–006**	**RAP10–006**	**RAP12–006**
	6.4		1/4	**RAP9–006.4**	**RAP10–006.4**	**RAP12–006.4**
0[1])	8.0		5/16	**RAP9–008**	**RAP10–008**	**RAP12–008**
	9.5		3/8	**RAP9–009.5**	**RAP10–009.5**	**RAP12–009.5**
	10.0	G 1/8		**RAP9–010**	**RAP10–010**	**RAP12–010**
	12.0			**RAP9–012**	**RAP10–012**	**RAP12–012**
	6.0			**RAP9–106**	**RAP10–106**	**RAP12–106**
	6.4		1/4	**RAP9–106.4**	**RAP10–106.4**	**RAP12–106.4**
1	8.0		5/16	**RAP9–108**	**RAP10–108**	**RAP12–108**
	9.5		3/8	**RAP9–109.5**	**RAP10–109.5**	**RAP12–109.5**
	10.0	G 1/8		**RAP9–110**	**RAP10–110**	**RAP12–110**
	12.0			**RAP9–112**	**RAP10–112**	**RAP12–112**
	12.7		1/2	**RAP9–212.7**	**RAP10–212.7**	**RAP12–212.7**
	13.5	G 1/4		**RAP9–213.5**	**RAP10–213.5**	**RAP12–213.5**
	14.0			**RAP9–214**	**RAP10–214**	**RAP12–214**
2	15.0			**RAP9–215**	**RAP10–215**	**RAP12–215**
	16.0		5/8	**RAP9–216**	**RAP10–216**	**RAP12–216**
	17.2	G 3/8		**RAP9–217.2**	**RAP10–217.2**	**RAP12–217.2**
	18.0			**RAP9–218**	**RAP10–218**	**RAP12–218**
	19.0		3/4	**RAP9–319**	**RAP10–319**	**RAP12–319**
	20.0			**RAP9–320**	**RAP10–320**	**RAP12–320**
3	21.3	G 1/2		**RAP9–321.3**	**RAP10–321.3**	**RAP12–321.3**
	22.0			**RAP9–322**	**RAP10–322**	**RAP12–322**
	23.0			**RAP9–323**	**RAP10–323**	**RAP12–323**
	25.0		1	**RAP9–325**	**RAP10–325**	**RAP12–325**
	26.9	G 3/4		**RAP9–426.9**	**RAP10–426.9**	**RAP12–426.9**
4	28.0			**RAP9–428**	**RAP10–428**	**RAP12–428**
	30.0			**RAP9–430**	**RAP10–430**	**RAP12–430**
	32.0		1 1/4	**RAP9–532**	**RAP10–532**	**RAP12–532**
	33.7	G 1		**RAP9–533.7**	**RAP10–533.7**	**RAP12–533.7**
5	35.0			**RAP9–535**	**RAP10–535**	**RAP12–535**
	38.0		1 1/2	**RAP9–538**	**RAP10–538**	**RAP12–538**
	40.0			**RAP9–540**	**RAP10–540**	**RAP12–540**
	42.0	G 1 1/4		**RAP9–542**	**RAP10–542**	**RAP12–542**
	44.5		1 3/4	**RAP9–644.5**	**RAP10–644.5**	**RAP12–644.5**
	45.0			**RAP9–645**	**RAP10–645**	**RAP12–645**
	48.0	G 1 1/2		**RAP9–648**	**RAP10–648**	**RAP12–648**
6	50.0			**RAP9–650**	**RAP10–650**	**RAP12–650**
	50.8		2	**RAP9–650.8**	**RAP10–650.8**	**RAP12–650.8**
	52.0			**RAP9–652**	**RAP10–652**	**RAP12–652**
	55.0			**RAP9–655**	**RAP10–655**	**RAP12–655**
	57.0		2 1/4	**RAP9–657**	**RAP10–657**	**RAP12–657**

Delivery in unassembled individual components.

[1]) Contrary to the illustration size 0 clamps are secured by only one screw.

* Only with cover plate, hexagon screws and locking washers.

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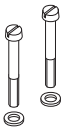
Tube clamps

Tube clamps series A – Complete range

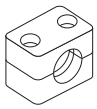
Polypropylene – **RAP**
Inside smooth – **RAPG**
Polyamide 6 – **RAN**
Inside smooth – **RANG**
Rubber – **RAVG***
Aluminium – **RAA**

(As required please exchange standard abbreviation RAP in column for "Order code")

2 clamp halves, slot heads and bushes

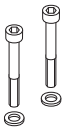


SLA...

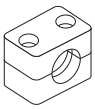


RAP...

2 clamp halves, socket head bolts and bushes



ISA...



RAP...

clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code
	6.0			**RAP13–006**	**RAP14–006**
	6.4		1/4	**RAP13–006.4**	**RAP14–006.4**
0[1])	8.0		5/16	**RAP13–008**	**RAP14–008**
	9.5		3/8	**RAP13–009.5**	**RAP14–009.5**
	10.0	G 1/8		**RAP13–010**	**RAP14–010**
	12.0			**RAP13–012**	**RAP14–012**
	6.0			**RAP13–106**	**RAP14–106**
	6.4		1/4	**RAP13–106.4**	**RAP14–106.4**
1	8.0		5/16	**RAP13–108**	**RAP14–108**
	9.5		3/8	**RAP13–109.5**	**RAP14–109.5**
	10.0	G 1/8		**RAP13–110**	**RAP14–110**
	12.0			**RAP13–112**	**RAP14–112**
	12.7		1/2	**RAP13–212.7**	**RAP14–212.7**
	13.5	G 1/4		**RAP13–213.5**	**RAP14–213.5**
	14.0			**RAP13–214**	**RAP14–214**
2	15.0			**RAP13–215**	**RAP14–215**
	16.0		5/8	**RAP13–216**	**RAP14–216**
	17.2	G 3/8		**RAP13–217.2**	**RAP14–217.2**
	18.0			**RAP13–218**	**RAP14–218**
	19.0		3/4	**RAP13–319**	**RAP14–319**
	20.0			**RAP13–320**	**RAP14–320**
3	21.3	G 1/2		**RAP13–321.3**	**RAP14–321.3**
	22.0			**RAP13–322**	**RAP14–322**
	23.0			**RAP13–323**	**RAP14–323**
	25.0		1	**RAP13–325**	**RAP14–325**
	26.9	G 3/4		**RAP13–426.9**	**RAP14–426.9**
4	28.0			**RAP13–428**	**RAP14–428**
	30.0			**RAP13–430**	**RAP14–430**
	32.0		1 1/4	**RAP13–532**	**RAP14–532**
	33.7	G 1		**RAP13–533.7**	**RAP14–533.7**
5	35.0			**RAP13–535**	**RAP14–535**
	38.0		1 1/2	**RAP13–538**	**RAP14–538**
	40.0			**RAP13–540**	**RAP14–540**
	42.0	G 1 1/4		**RAP13–542**	**RAP14–542**
	44.5		1 3/4	**RAP13–644.5**	**RAP14–644.5**
	45.0			**RAP13–645**	**RAP14–645**
	48.0	G 1 1/2		**RAP13–648**	**RAP14–648**
6	50.0			**RAP13–650**	**RAP14–650**
	50.8		2	**RAP13–650.8**	**RAP14–650.8**
	52.0			**RAP13–652**	**RAP14–652**
	55.0			**RAP13–655**	**RAP14–655**
	57.0		2 1/4	**RAP13–657**	**RAP14–657**

Delivery in unassembled individual components.

[1]) Contrary to the illustration size 0 clamps are secured by only one screw.

* Only with cover plate, hexagon screws and locking washers.

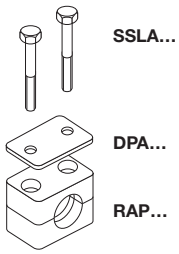
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Tube clamps series A – Complete range

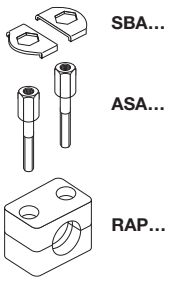
Polypropylene – **RAP**
Inside smooth – **RAPG**
Polyamide 6 – **RAN**
Inside smooth – **RANG**
Rubber – **RAVG***
Aluminium – **RAA**

(As required please exchange standard abbreviation RAP in column for "Order code")

2 clamp halves, cover plate and hex. head bolts



2 clamp halves, stacking bolts and locking plate



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code
	6.0			**RAP16–006**	**RAP18–006**
	6.4		1/4	**RAP16–006.4**	**RAP18–006.4**
0[1])	8.0		5/16	**RAP16–008**	**RAP18–008**
	9.5		3/8	**RAP16–009.5**	**RAP18–009.5**
	10.0	G 1/8		**RAP16–010**	**RAP18–010**
	12.0			**RAP16–012**	**RAP18–012**
	6.0			**RAP16–106**	**RAP18–106**
	6.4		1/4	**RAP16–106.4**	**RAP18–106.4**
1	8.0		5/16	**RAP16–108**	**RAP18–108**
	9.5		3/8	**RAP16–109.5**	**RAP18–109.5**
	10.0	G 1/8		**RAP16–110**	**RAP18–110**
	12.0			**RAP16–112**	**RAP18–112**
	12.7		1/2	**RAP16–212.7**	**RAP18–212.7**
	13.5	G 1/4		**RAP16–213.5**	**RAP18–213.5**
	14.0			**RAP16–214**	**RAP18–214**
2	15.0			**RAP16–215**	**RAP18–215**
	16.0		5/8	**RAP16–216**	**RAP18–216**
	17.2	G 3/8		**RAP16–217.2**	**RAP18–217.2**
	18.0			**RAP16–218**	**RAP18–218**
	19.0		3/4	**RAP16–319**	**RAP18–319**
	20.0			**RAP16–320**	**RAP18–320**
3	21.3	G 1/2		**RAP16–321.3**	**RAP18–321.3**
	22.0			**RAP16–322**	**RAP18–322**
	23.0			**RAP16–323**	**RAP18–323**
	25.0		1	**RAP16–325**	**RAP18–325**
	26.9	G 3/4		**RAP16–426.9**	**RAP18–426.9**
4	28.0			**RAP16–428**	**RAP18–428**
	30.0			**RAP16–430**	**RAP18–430**
	32.0		1 1/4	**RAP16–532**	**RAP18–532**
	33.7	G 1		**RAP16–533.7**	**RAP18–533.7**
5	35.0			**RAP16–535**	**RAP18–535**
	38.0		1 1/2	**RAP16–538**	**RAP18–538**
	40.0			**RAP16–540**	**RAP18–540**
	42.0	G 1 1/4		**RAP16–542**	**RAP18–542**
	44.5		1 3/4	**RAP16–644.5**	**RAP18–644.5**
	45.0			**RAP16–645**	**RAP18–645**
	48.0	G 1 1/2		**RAP16–648**	**RAP18–648**
6	50.0			**RAP16–650**	**RAP18–650**
	50.8		2	**RAP16–650.8**	**RAP18–650.8**
	52.0			**RAP16–652**	**RAP18–652**
	55.0			**RAP16–655**	**RAP18–655**
	57.0		2 1/4	**RAP16–657**	**RAP18–657**

Delivery in unassembled individual components.

[1]) Contrary to the illustration size 0 clamps are secured by only one screw.

* Only with cover plate, hexagon screws and locking washers.

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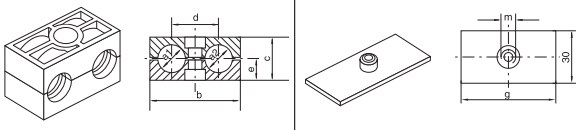
Tube clamps series B (Twin-tube clamps) – Components

DIN 3015, part 3

Order code for clamp halves:

Polypropylene – **RBP**
Inside smooth – **RBPG**
Polyamide 6 – **RBN**
Rubber – **RBVG**

(Please exchange standard abbreviation RBP in column for "clamp halves" as required.)



Width: 30 mm

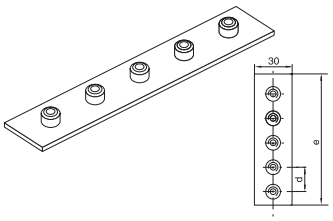
clamp size	Tube O.D. mm	Tube NB	Tube O.D.	1 part 2 clamp halves[1]) RBP… Order code	dimensions: b	c	d	e	weld plate APB… Order code	dimensions: g	m
1	6.0 6.4 8.0 9.5 10.0 12.0	G 1/8	1/4 5/16 3/8	**RBP106X** **RBP106.4X** **RBP108X** **RBP109.5X** **RBP110X** **RBP112X**	36	27	20	13.5	**APB1X**	37 Thickness: 3 mm	M 6
2	12.7 13.5 14.0 15.0 16.0 17.2 18.0	G 1/4 G 3/8	1/2 5/8	**RBP212.7X** **RBP213.5X** **RBP214X** **RBP215X** **RBP216X** **RBP217.2X** **RBP218X**	53	26	29	13	**APB2X**	55 Thickness: 5 mm	M 8
3	19.0 20.0 21.3 22.0 25.0	G 1/2	3/4 1	**RBP319X** **RBP320X** **RBP321.3X** **RBP322X** **RBP325X**	67	37	36	18.5	**APB3X**	70 Thickness: 5 mm	M 8
4	26.9 28.0 30.0	G 3/4		**RBP426.9X** **RBP428X** **RBP430X**	82	42	45	21	**APB4X**	85 Thickness: 5 mm	M 8
5	32.0 33.7 35.0 38.0 42.0	G 1 G 1 1/4	1 1/4 1 1/2	**RBP532X** **RBP533.7X** **RBP535X** **RBP538X** **RBP542X**	106	54	56	27	**APB5X**	110 Thickness: 5 mm	M 8

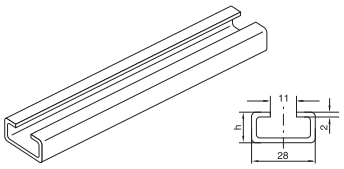
Metal parts also available in stainless steel.
[1]) Twin-tube clamps with different outer tube diameters upon request.

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Tube clamps series B (Twin-tube clamps) – Components

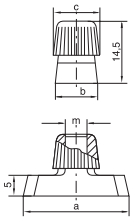
DIN 3015, part 3





1 or 2 mtr



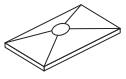


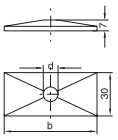
clamp size	multiple weld plate APRB… Order code	dimensions: d	e	mounting rail TS…A/B Order code	dimensions: h	rail nut TM… Order code	dimensions: a	b	c	m
1	**APRB1X (5 clamps)**	40	196			**TMA/TMB1VERZX**	25.4	10.4	12	M 6
2	**APRB2X (5 clamps)**	58	288	**TS11A/B1X** **TS11A/B2X**						
3	**APRB3X (5 clamps)**	72	358	**TS14A/B1X** **TS14A/B2X** **TS30A/B1X**	TS11: 11 TS14: 14 TS30: 30	**TMB2X**	25.4	10.4	12	M8
4	**APRB4X (5 clamps)**	90	446	**TS30A/B2X**						
5	**APRB5X (5 clamps)**	112	558							

Thickness: 3 mm (clamp size 1)
Thickness: 5 mm (clamp size 2)
Thickness: 5 mm (clamp size 3)
Thickness: 5 mm (clamp size 4)
Thickness: 5 mm (clamp size 5)

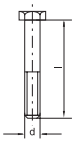
Tube clamps series B (Twin-tube clamps) – Components

DIN 3015, part 3









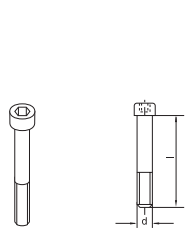
DIN 931/933

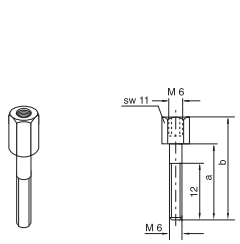
clamp size	cover plate DP B… Order code	dimensions: b	d	hexagonal head SS B… Order code	dimensions: d × L
1	**DPB1X**	34	6.6	**SSLA2/SSB1X**	M 6 × 35
2	**DPB2X**	51	8.6	**SSB2X**	M 8 × 35
3	**DPB3X**	64	8.6	**SSB3X**	M 8 × 45
4	**DPB4X**	78	8.6	**SSB4X**	M 8 × 50
5	**DPB5X**	102	8.6	**SSB5X**	M 8 × 60

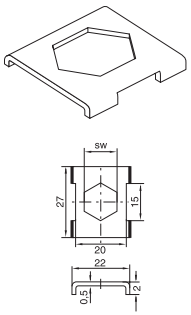
Metal parts also available in stainless steel.

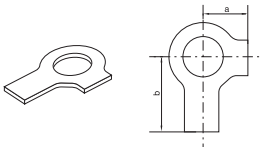
Tube clamps series B (Twin-tube clamps) – Components

DIN 3015, part 3









clamp size	socket head IS B… Order code	dimensions: d × L	stacking AS B… Order code	dimensions: a	b	m	SW	locking plate[1]) SB B… Order code	dimensions: SW	locking washer[2]) US… Order code	dimensions: a	b
1	**ISA4X (ISB1X)**	M 6 × 35	**ASA0X (ASB1X)**	20	34	M 6	11	**SBB1X**	11	**USA/USB1X**	9	18
2	**ISB2X**	M 8 × 35	**ASB2X**	20	33	M 8	12	**SBB2X**	12	**USB2X**	11	20
3	**ISB3X**	M 8 × 45	**ASB3X**	29	44	M 8	12					
4	**ISB4X**	M 8 × 50	**ASB4X**	34	49	M 8	12					
5	**ISB5X**	M 8 × 60	**ASB5X**	47	62	M 8	12					

[1]) The use of stacking screws necessitates the use of locking plates in the construction assembly!
[2]) When assemblying solid rubber clamps, covering plates, he×agon screws and locking washers must be used.
Metal parts also available in stainless steel.

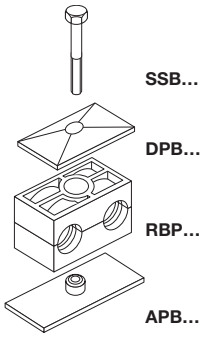
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Tube clamps series B – Complete range

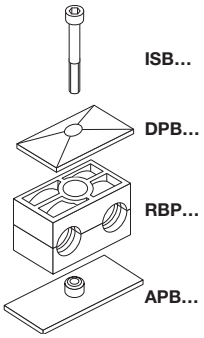
Polypropylene – **RBP**
Inside smooth – **RBPG**
Polyamide 6 – **RBN**
Rubber – **RBVG***

(As required please exchange standard abbreviation RBP in column for "Order code")

2 clamp halves, weld plate, cover plate, hex. head bolt



2 clamp halves, weld plate, cover plate, socket head bolt



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code
	6.0			**RBP1–106**	**RBP3–106**
	6.4		1/4	**RBP1–106.4**	**RBP3–106.4**
1	8.0		5/16	**RBP1–108**	**RBP3–108**
	9.5		3/8	**RBP1–109.5**	**RBP3–109.5**
	10.0	G1/8		**RBP1–110**	**RBP3–110**
	12.0			**RBP1–112**	**RBP3–112**
	12.7		1/2	**RBP1–212.7**	**RBP3–212.7**
	13.5	G1/4		**RBP1–213.5**	**RBP3–213.5**
	14.0			**RBP1–214**	**RBP3–214**
2	15.0			**RBP1–215**	**RBP3–215**
	16.0		5/8	**RBP1–216**	**RBP3–216**
	17.2	G3/8		**RBP1–217.2**	**RBP3–217.2**
	18.0			**RBP1–218**	**RBP3–218**
	19.0		3/4	**RBP1–319**	**RBP3–319**
	20.0			**RBP1–320**	**RBP3–320**
3	21.3	G1/2		**RBP1–321.3**	**RBP3–321.3**
	22.0			**RBP1–322**	**RBP3–322**
	25.0		1	**RBP1–325**	**RBP3–325**
	26.9	G3/4		**RBP1–426.9**	**RBP3–426.9**
4	28.0			**RBP1–428**	**RBP3–428**
	30.0			**RBP1–430**	**RBP3–430**
	32.0		1 1/4	**RBP1–532**	**RBP3–532**
	33.7	G1		**RBP1–533.7**	**RBP3–533.7**
5	35.0			**RBP1–535**	**RBP3–535**
	38.0		1 1/2	**RBP1–538**	**RBP3–538**
	42.0	G1 1/4		**RBP1–542**	**RBP3–542**

Delivery in unassembled individual components.
*Only with cover plate, hexagon screws and locking washers.

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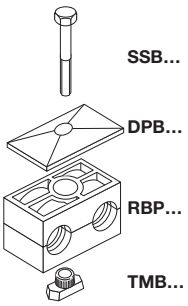
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Tube clamps series B – Complete range

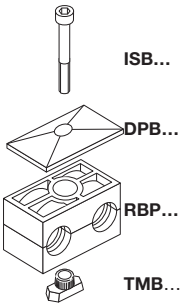
Polypropylene – **RBP**
Inside smooth – **RBPG**
Polyamide 6 – **RBN**
Rubber – **RBVG***

(As required please exchange standard abbreviation RBP in column for "Order code")

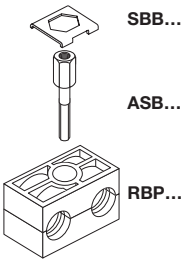
2 clamp halves, rail nut, cover plate, hex. head bolt



2 clamp halves, rail nut, cover plate, socket head bolt



2 clamp halves, locking plate, stacking bolt



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code	Order code
	6.0			**RBP4–106**	**RBP5–106**	**RBP8–106**
	6.4		1/4	**RBP4–106.4**	**RBP5–106.4**	**RBP8–106.4**
1	8.0		5/16	**RBP4–108**	**RBP5–108**	**RBP8–108**
	9.5		3/8	**RBP4–109.5**	**RBP5–109.5**	**RBP8–109.5**
	10.0	G 1/8		**RBP4–110**	**RBP5–110**	**RBP8–110**
	12.0			**RBP4–112**	**RBP5–112**	**RBP8–112**
	12.7		1/2	**RBP4–212.7**	**RBP5–212.7**	**RBP8–212.7**
	13.5	G 1/4		**RBP4–213.5**	**RBP5–213.5**	**RBP8–213.5**
	14.0			**RBP4–214**	**RBP5–214**	**RBP8–214**
2	15.0			**RBP4–215**	**RBP5–215**	**RBP8–215**
	16.0		5/8	**RBP4–216**	**RBP5–216**	**RBP8–216**
	17.2	G 3/8		**RBP4–217.2**	**RBP5–217.2**	**RBP8–217.2**
	18.0			**RBP4–218**	**RBP5–218**	**RBP8–218**
	19.0		3/4	**RBP4–319**	**RBP5–319**	**RBP8–319**
	20.0			**RBP4–320**	**RBP5–320**	**RBP8–320**
3	21.3	G 1/2		**RBP4–321.3**	**RBP5–321.3**	**RBP8–321.3**
	22.0			**RBP4–322**	**RBP5–322**	**RBP8–322**
	25.0		1	**RBP4–325**	**RBP5–325**	**RBP8–325**
	26.9	G 3/4		**RBP4–426.9**	**RBP5–426.9**	**RBP8–426.9**
4	28.0			**RBP4–428**	**RBP5–428**	**RBP8–428**
	30.0			**RBP4–430**	**RBP5–430**	**RBP8–430**
	32.0		1 1/4	**RBP4–532**	**RBP5–532**	**RBP8–532**
	33.7	G 1		**RBP4–533.7**	**RBP5–533.7**	**RBP8–533.7**
5	35.0			**RBP4–535**	**RBP5–535**	**RBP8–535**
	38.0		1 1/2	**RBP4–538**	**RBP5–538**	**RBP8–538**
	42.0	G 1 1/4		**RBP4–542**	**RBP5–542**	**RBP8–542**

Delivery in unassembled individual components.
*Only with cover plate, hexagon screws and locking washers.

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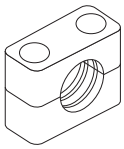
Tube clamps series C (Heavy series) – Components

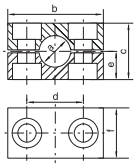
DIN 3015, part 2

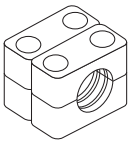
Order code for clamp halves:

Polypropylene – **RCP**
Inside smooth – **RCPG**[1)]
Polyamide 6 – **RCN**[1)]
Rubber – **RCVR**
Aluminium – **RCA**

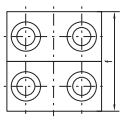
(Please exchange as required standard abbreviation RCP in column for "clamp halves")







RCPD
(= 2XRCP...)



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	1 part 2 clamp halves RCP... Order code	b	c	d	e	f	1 part 4 clamp halves RCPD... Order code	b	c	d	e	f
	6.0			**RCP106X**						**RCPD106**					
	8.0		5/16	**RCP108X**						**RCPD108**					
	10.0	G 1/8		**RCP110X**						**RCPD110**					
	12.0			**RCP112X**						**RCPD112**					
	12.7		1/2	**RCP112.7X**						**RCPD112.7**					
1	13.5	G 1/4		**RCP113.5X**	55	32	33	16	30	**RCPD113.5**	55	32	33	16	60
	14.0			**RCP114X**						**RCPD114**					
	15.0			**RCP115X**						**RCPD115**					
	16.0		5/8	**RCP116X**						**RCPD116**					
	17.2	G 3/8		**RCP117.2X**						**RCPD117.2**					
	18.0			**RCP118X**						**RCPD118**					
	19.0		3/4	**RCP219X**						**RCPD219**					
	20.0			**RCP220X**						**RCPD220**					
	21.3	G 1/2		**RCP221.3X**						**RCPD221.3**					
	22.0			**RCP222X**						**RCPD222**					
2	23.0			**RCP223X**	70	48	45	24	30	**RCPD223**	70	48	45	24	60
	25.0		1	**RCP225X**						**RCPD225**					
	26.9	G 3/4		**RCP226.9X**						**RCPD226.9**					
	28.0			**RCP228X**						**RCPD228**					
	30.0			**RCP230X**						**RCPD230**					
	30.0			**RCP330X**						**RCPD330**					
	32.0		1 1/4	**RCP332X**						**RCPD332**					
	33.7	G 1		**RCP333.7X**						**RCPD333.7**					
3	35.0			**RCP335X**	85	60	60	30	30	**RCPD335**	85	60	60	30	60
	38.0		1 1/2	**RCP338X**						**RCPD338**					
	39.0			**RCP339X**						**RCPD339**					
	40.0			**RCP340X**						**RCPD340**					
	42.0	G 1 1/4		**RCP342X**						**RCPD342**					
	38.0		1 1/2	**RCP438X**						**RCPD428**					
	40.0			**RCP440X**						**RCPD440**					
	42.0	G 1 1/4		**RCP442X**						**RCPD442**					
	45.0			**RCP445X**						**RCPD445**					
	46.0			**RCP446X**						**RCPD446**					
	48.3	G 1 1/2		**RCP448.3X**						**RCPD448.3**					
	50.0			**RCP450X**						**RCPD450**					
4	51.0		2	**RCP451X**	115	90	90	45	45	**RCPD451**	115	90	90	45	90
	52.0			**RCP452X**						**RCPD452**					
	55.0			**RCP455X**						**RCPD455**					
	56.0			**RCP456X**						**RCPD456**					
	57.0		2 1/4	**RCP457X**						**RCPD457**					
	60.3	G 2		**RCP460.3X**						**RCPD460.3**					
	63.0		2 1/2	**RCP463X**						**RCPD463**					
	65.0			**RCP465X**						**RCPD465**					
	66.0			**RCP466X**						**RCPD466**					
	70.0			**RCP470X**						**RCPD470**					

Continuation see next page ...

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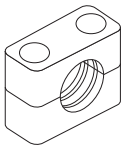
Tube clamps

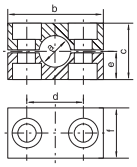
Tube clamps series C (Heavy series) – Components (Continued)

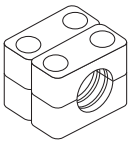
Order code for clamp halves:

Polypropylene – **RCP**
Inside smooth – **RCPG**[1])
Polyamide 6 – **RCN**[1])
Rubber – **RCVR**
Aluminium – **RCA**

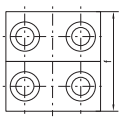
(Please exchange as required standard abbreviation RCP in column for "clamp halves")







RCPD
(= 2XRCP...)

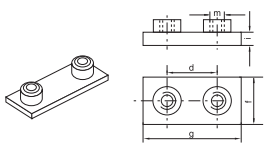
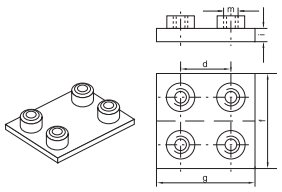
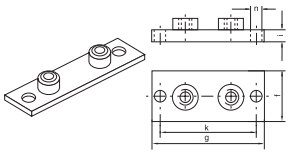
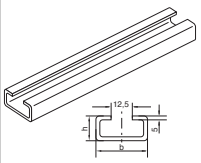


clamp size	Tube O.D. mm	Tube NB	Tube O.D.	1 part 2 clamp halves RCP... Order code	b	c	d	e	f	1 part 4 clamp halves RCPD... Order code	b	c	d	e	f
	70.0			**RCP570X**						**RCPD570**					
	73.0			**RCP573X**						**RCPD573**					
	75.0			**RCP575X**						**RCPD575**					
5	76.1	G 2½	3	**RCP576.1X**	152	120	122	60	60	**RCPD576.1**	152	120	122	60	120
	80.0			**RCP580X**						**RCPD580**					
	82.5		3¼	**RCP582.5X**						**RCPD582.5**					
	88.9	G 3	3½	**RCP588.9X**						**RCPD588.9**					
	90.0			**RCP590X**						**RCPD590**					
	90.0			**RCP690X**						**RCPD690**					
	97.0			**RCP697X**						**RCPD697**					
	100.0			**RCP6100X**						**RCPD6100**					
6	101.6	G 3½	4	**RCP6101.6X**	205	170	168	85	80	**RCPD6101.6**	205	170	168	85	160
	108.0		4¼	**RCP6108X**						**RCPD6108**					
	114.3	G 4	4½	**RCP6114.3X**						**RCPD6114.3**					
	127.0		5	**RCP6127X**						**RCPD6127**					
	127.0		5	**RCP7127X**						**RCPD7127**					
	133.0		5¼	**RCP7133X**						**RCPD7133**					
	140.0	G 5	5½	**RCP7140X**						**RCPD7140**					
7	150.0			**RCP7150X**	250	200	205	100	90	**RCPD7150**	250	200	205	100	180
	152.4	G 5½	6	**RCP7152.4X**						**RCPD7152.4**					
	159.0		6¼	**RCP7159X**						**RCPD7159**					
	165.1	G 6	6½	**RCP7165.1X**						**RCPD7165.1**					
	168.3		6⅝	**RCP7168.3X**						**RCPD7168.3**					
	168.3		6⅝	**RCP8168.3X**						**RCPD8168.3**					
	177.8		7	**RCP8177.8X**						**RCPD8177.8**					
8	193.7		7⅝	**RCP8193.7X**	320	270	265	135	120	**RCPD8193.7**	320	270	265	135	240
	203.0			**RCP8203X**						**RCPD8203**					
	219.1	G 8	8⅝	**RCP8219.1X**						**RCPD8219.1**					
	220.0			**RCP8220X**						**RCPD8220**					
	219.1	G8		**RCP9219.1X**	466	410	395	205	160						
	244.5			**RCP9244.5X**											
9	250.0			**RCP9250X**											
	273.0			**RCP9273X**											
	323.9			**RCP9323.9X**											
10	355.6	G10		**RCP10355.6X**	630	530	530	265	180						
	406.4	G12		**RCP10406.4X**											

Metal parts also available in stainless steel.
[1]) Only sizes 1–4

Tube clamps series C (Heavy series) – Components

DIN 3015, part 2

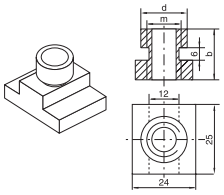
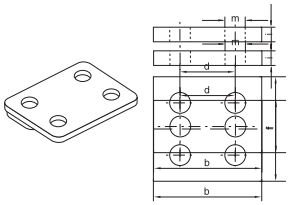
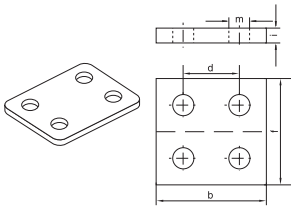
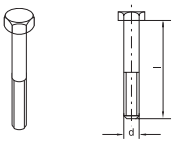





clamp size	weld plate AP C… Order code	dimensions: d	f	g	i	m	double weld plate APD C… Order code	dimensions: d	f	g	i	m	weld/screw plate APL C… Order code	dimensions: g	f	i	k	n	mounting rail TS C… Order code	dim.: b	h
1	**APC1X**	33	30	73	8	M10	**APDC1X**	33	60	73	8	M10	**APLC1X**	113	30	8	85	11	**TSC1X (1 Meter)**	40	22
2	**APC2X**	45	30	85	8	M10	**APDC2X**	45	60	85	8	M10	**APLC2X**	125	30	8	97	11			
3	**APC3X**	60	30	100	8	M10	**APDC3X**	60	60	100	8	M10	**APLC3X**	140	30	8	112	11	**TSC2X (2 Meter)**		
4	**APC4X**	90	45	140	10	M12	**APDC4X**	90	90	140	10	M12	**APLC4X**	190	45	10	160	14			
5	**APC5X**	122	60	180	10	M16	**APDC5X**	122	120	180	10	M16	**APLC5X**	240	60	10	205	18			
6	**APC6X**	168	80	225	15	M20	**APDC6X**	168	160	225	15	M20	**APLC6X**	310	80	15	270	22			
7	**APC7X**	205	90	270	15	M24	**APDC7X**	205	180	270	15	M24	**APLC7X**	370	90	15	320	26			
8	**APC8X**	265	120	340	25	M30	**APDC8X**	265	240	340	25	M30	**APLC8X**	450	120	25	390	33			
9	**APC9X**	395	160	520	30	M30	**APDC9X**	395	324	520	30	M30									
10	**APC10X**	530	180	680	30	M30	**APDC10X**	530	364	680	30	M30									

Metal parts also available in stainless steel.
Complete programme range please refer to page 240.

Tube clamps series C (Heavy series) – Components

DIN 3015, part 2

DIN 931/933

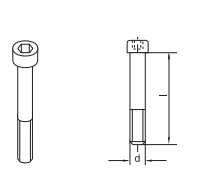
clamp size	rail nut			cover plate					double cover plate					hexagon head	
	TM C… Order code	dimensions: b	d	m	**DP C…** Order code	dimensions: b	d	f	i	m	**DPD C…** Order code	dimensions: b	d	f	i	m	**SS C…** Order code	dimensions: d × L
1					**DPC1X**	55	33	30	8	11	**DPDC1X**	55	33	60	8	11	**SSC1X**	M 10 × 45
2	**TMC1X**	20	17.8	M 10	**DPC2X**	70	45	30	8	11	**DPDC2X**	70	45	60	8	11	**SSC2X**	M 10 × 60
3					**DPC3X**	85	60	30	8	11	**DPDC3X**	85	60	60	8	11	**SSC3X**	M 10 × 70
4	**TMC4X**	23	19.8	M 12	**DPC4X**	115	90	45	10	14	**DPDC4X**	115	90	90	10	14	**SSC4X**	M 12 × 100
5					**DPC5X**	152	122	60	10	18	**DPDC5X**	152	122	120	10	18	**SSC5X**	M 16 × 130
6					**DPC6X**	205	168	80	15	22	**DPDC6X**	205	168	160	15	22	**SSC6X**	M 20 × 190
7					**DPC7X**	250	205	90	15	26	**DPDC7X**	250	205	180	15	26	**SSC7X**	M 24 × 220
8					**DPC8X**	320	265	120	25	33	**DPDC8X**	320	265	240	25	33	**SSC8X**	M 30 × 300
9					**DPC9X**	466	395	160	30	35	**DPDC9X**	466	395	324	30	35	**SSC9X**	M 30 × 450
10					**DPC10X**	630	530	180	30	35	**DPDC10X**	630	530	364	30	35	**SSC10X**	M 30 × 560

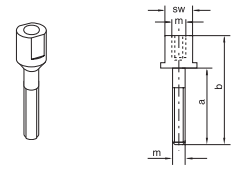
Metal parts also available in stainless steel.

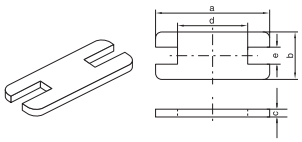
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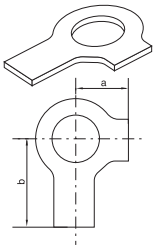
Tube clamps series C (Heavy series) – Components

DIN 3015, part 2









clamp size	socket head		stacking					locking plate[1])					locking washer[2])		
	IS C… Order code	dimensions: d × L	AS C… Order code	dimensions: a	b	m	SW	SP C… Order code	dimensions: a	b	c	d	e	US C… Order code	dimensions: a	b
1	**ISC1X**	M 10 × 45	**ASC1X**	25	51	M 10	15	**SPC1X**	55	30	8	14	15.5			
2	**ISC2X**	M 10 × 60	**ASC2X**	40	66	M 10	15	**SPC2X**	70	30	8	26	15.5	**USC1X**	13	22
3	**ISC3X**	M 10 × 70	**ASC3X**	50	76	M 10	15	**SPC3X**	85	30	8	41	15.5			
4	**ISC4X**	M 12 × 100	**ASC4X**	85	112	M 12	17	**SPC4X**	115	45	10	69	17.5	**USC4X**	15	28
5	**ISC5X**	M 16 × 130	**ASC5X**	110	146	M 16	21	**SPC5X**	152	60	10	97	21.5	**USC5X**	18	32
6	**ISC6X**	M 20 × 190	**ASC6X**	155	206	M 20	27	**SPC6X**	205	80	15	137	27.5	**USC6X**	21	36
7	**ISC7X**	M 24 × 220	**ASC7X**	185	245	M 24	30	**SPC7X**	250	90	15	169	30.5	**USC7X**	25	42
8	**ISC8X**	M 30 × 300	**ASC8X**	250	330	M 30	36	**SPC8X**	320	120	25	219	36.5	**USC8X**	32	52

[1]) The use of stacking screws necessitates the use of locking plates in the construction assembly!
[2]) When assemblying solid rubber clamps, covering plates, he×agon screws and locking washers must be used.
Metal parts also available in stainless steel.

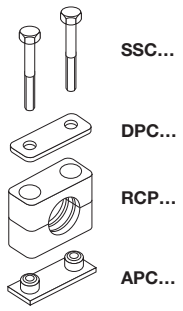
Tube clamps

Tube clamps series C – Complete range

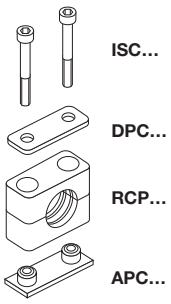
Polypropylene – **RCP**
Inside smooth – **RCPG**[1])
Polyamide 6 – **RCN**
Rubber – **RCVR***
Aluminium – **RCA**

(As required please exchange standard abbreviation RCP in column for "Order code")

2 clamp halves, weld plate, cover plate, hex. head bolt



2 clamp halves, weld plate, cover plate, socket head bolt



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code
	6.0			**RCP1–106**	**RCP2–106**
	8.0		5/16	**RCP1–108**	**RCP2–108**
	10.0	G 1/8		**RCP1–110**	**RCP2–110**
	12.0			**RCP1–112**	**RCP2–112**
	12.7		1/2	**RCP1–112.7**	**RCP2–112.7**
1	13.5	G 1/4		**RCP1–113.5**	**RCP2–113.5**
	14.0			**RCP1–114**	**RCP2–114**
	15.0			**RCP1–115**	**RCP2–115**
	16.0		5/8	**RCP1–116**	**RCP2–116**
	17.2	G 3/8		**RCP1–117.2**	**RCP2–117.2**
	18.0			**RCP1–118**	**RCP2–118**
	19.0		3/4	**RCP1–219**	**RCP2–219**
	20.0			**RCP1–220**	**RCP2–220**
	21.3	G 1/2		**RCP1–221.3**	**RCP2–221.3**
	22.0			**RCP1–222**	**RCP2–222**
2	23.0			**RCP1–223**	**RCP2–223**
	25.0		1	**RCP1–225**	**RCP2–225**
	26.9	G 3/4		**RCP1–226.9**	**RCP2–226.9**
	28.0			**RCP1–228**	**RCP2–228**
	30.0			**RCP1–230**	**RCP2–230**
	30.0			**RCP1–330**	**RCP2–330**
	32.0		1 1/4	**RCP1–332**	**RCP2–332**
	33.7	G 1		**RCP1–333.7**	**RCP2–333.7**
3	35.0			**RCP1–335**	**RCP2–335**
	38.0		1 1/2	**RCP1–338**	**RCP2–338**
	40.0			**RCP1–340**	**RCP2–340**
	42.0	G 1 1/4		**RCP1–342**	**RCP2–342**
	38.0		1 1/2	**RCP1–438**	**RCP2–438**
	40.0			**RCP1–440**	**RCP2–440**
	42.0	G 1 1/4		**RCP1–442**	**RCP2–442**
	45.0			**RCP1–445**	**RCP2–445**
	48.3	G 1 1/2		**RCP1–448.3**	**RCP2–448.3**
	50.0			**RCP1–450**	**RCP2–450**
4	51.0		2	**RCP1–451**	**RCP2–451**
	52.0			**RCP1–452**	**RCP2–452**
	55.0			**RCP1–455**	**RCP2–455**
	57.0		2 1/4	**RCP1–457**	**RCP2–457**
	60.3	G 2		**RCP1–460.3**	**RCP2–460.3**
	63.0		2 1/2	**RCP1–463**	**RCP2–463**
	65.0			**RCP1–465**	**RCP2–465**
	70.0			**RCP1–470**	**RCP2–470**

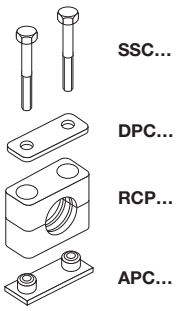
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Tube clamps series C – Complete range (Continued)

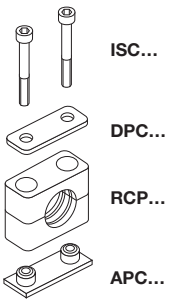
Polypropylene – **RCP**
Inside smooth – **RCPG**[1])
Polyamide 6 – **RCN**
Rubber – **RCVR***
Aluminium – **RCA**

(As required please exchange standard abbreviation RCP in column for "Order code")

2 clamp halves, weld plate, cover plate, hex. head bolt



2 clamp halves, weld plate, cover plate, socket head bolt



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code
	70.0			**RCP1–570**	**RCP2–570**
	73.0			**RCP1–573**	**RCP2–573**
	75.0			**RCP1–575**	**RCP2–575**
5	76.1	G 2½	3	**RCP1–576.1**	**RCP2–576.1**
	80.0			**RCP1–580**	**RCP2–580**
	82.5		3¼	**RCP1–582.5**	**RCP2–582.5**
	88.9	G 3	3½	**RCP1–588.9**	**RCP2–588.9**
	90.0			**RCP1–590**	**RCP2–590**
	90.0			**RCP1–690**	**RCP2–690**
	97.0			**RCP1–697**	**RCP2–697**
	100.0			**RCP1–6100**	**RCP2–6100**
6	101.6	G 3½	4	**RCP1–6101.6**	**RCP2–6101.6**
	108.0		4¼	**RCP1–6108**	**RCP2–6108**
	114.3	G 4	4½	**RCP1–6114.3**	**RCP2–6114.3**
	127.0		5	**RCP1–6127**	**RCP2–6127**
	127.0		5	**RCP1–7127**	**RCP2–7127**
	133.0		5¼	**RCP1–7133**	**RCP2–7133**
	140.0	G 5	5½	**RCP1–7140**	**RCP2–7140**
7	150.0			**RCP1–7150**	**RCP2–7150**
	152.4	G 5½	6	**RCP1–7152.4**	**RCP2–7152.4**
	159.0		6¼	**RCP1–7159**	**RCP2–7159**
	165.1	G 6	6½	**RCP1–7165.1**	**RCP2–7165.1**
	168.3		6⅝	**RCP1–7168.3**	**RCP2–7168.3**
	168.3		6⅝	**RCP1–8168.3**	**RCP2–8168.3**
	177.8		7	**RCP1–8177.8**	**RCP2–8177.8**
8	193.7		7⅝	**RCP1–8193.7**	**RCP2–8193.7**
	203.0			**RCP1–8203**	**RCP2–8203**
	219.1	G 8	8⅝	**RCP1–8219.1**	**RCP2–8219.1**
	220.0			**RCP1–8220**	**RCP2–8220**

Delivery in unassembled individual components.
[1]) Only sizes 1–4
* Only with cover plate, hexagon screws and locking washers (only sizes 1–4).

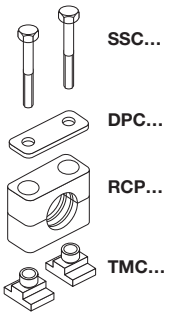
Tube clamps

Tube clamps series C – Complete range

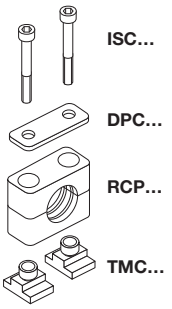
Polypropylene – **RCP**
Inside smooth – **RCPG**[1])
Polyamide 6 – **RCN**
Rubber – **RCVR***
Aluminium – **RCA**

(As required please exchange standard abbreviation RCP in column for "Order code")

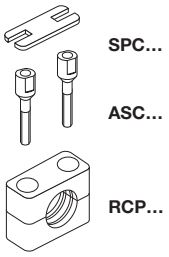
2 clamp halves, rail nuts, cover plate, hex. head bolts



2 clamp halves, rail nuts, cover plate, socket head bolts



2 clamp halves, locking plate, stacking bolts



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code	Order code
	6.0			**RCP3–106**	**RCP4–106**	**RCP5–106**
	8.0		5/16	**RCP3–108**	**RCP4–108**	**RCP5–108**
	10.0	G 1/8		**RCP3–110**	**RCP4–110**	**RCP5–110**
	12.0			**RCP3–112**	**RCP4–112**	**RCP5–112**
	12.7		1/2	**RCP3–112.7**	**RCP4–112.7**	**RCP5–112.7**
1	13.5	G 1/4		**RCP3–113.5**	**RCP4–113.5**	**RCP5–113.5**
	14.0			**RCP3–114**	**RCP4–114**	**RCP5–114**
	15.0			**RCP3–115**	**RCP4–115**	**RCP5–115**
	16.0		5/8	**RCP3–116**	**RCP4–116**	**RCP5–116**
	17.2	G 3/8		**RCP3–117.2**	**RCP4–117.2**	**RCP5–117.2**
	18.0			**RCP3–118**	**RCP4–118**	**RCP5–118**
	19.0		3/4	**RCP3–219**	**RCP4–219**	**RCP5–219**
	20.0			**RCP3–220**	**RCP4–220**	**RCP5–220**
	21.3	G 1/2		**RCP3–221.3**	**RCP4–221.3**	**RCP5–221.3**
	22.0			**RCP3–222**	**RCP4–222**	**RCP5–222**
2	23.0			**RCP3–223**	**RCP4–223**	**RCP5–223**
	25.0		1	**RCP3–225**	**RCP4–225**	**RCP5–225**
	26.9	G 3/4		**RCP3–226.9**	**RCP4–226.9**	**RCP5–226.9**
	28.0			**RCP3–228**	**RCP4–228**	**RCP5–228**
	30.0			**RCP3–230**	**RCP4–230**	**RCP5–230**
	30.0			**RCP3–330**	**RCP4–330**	**RCP5–330**
	32.0		1 1/4	**RCP3–332**	**RCP4–332**	**RCP5–332**
	33.7	G 1		**RCP3–333.7**	**RCP4–333.7**	**RCP5–333.7**
3	35.0			**RCP3–335**	**RCP4–335**	**RCP5–335**
	38.0		1 1/2	**RCP3–338**	**RCP4–338**	**RCP5–338**
	40.0			**RCP3–340**	**RCP4–340**	**RCP5–340**
	42.0	G 1 1/4		**RCP3–342**	**RCP4–342**	**RCP5–342**
	38.0		1 1/2	**RCP3–438**	**RCP4–438**	**RCP5–438**
	40.0			**RCP3–440**	**RCP4–440**	**RCP5–440**
	42.0	G 1 1/4		**RCP3–442**	**RCP4–442**	**RCP5–442**
	45.0			**RCP3–445**	**RCP4–445**	**RCP5–445**
	48.3	G 1 1/2		**RCP3–448.3**	**RCP4–448.3**	**RCP5–448.3**
	50.0			**RCP3–450**	**RCP4–450**	**RCP5–450**
4	51.0		2	**RCP3–451**	**RCP4–451**	**RCP5–451**
	52.0			**RCP3–452**	**RCP4–452**	**RCP5–452**
	55.0			**RCP3–455**	**RCP4–455**	**RCP5–455**
	57.0		2 1/4	**RCP3–457**	**RCP4–457**	**RCP5–457**
	60.3	G 2		**RCP3–460.3**	**RCP4–460.3**	**RCP5–460.3**
	63.0		2 1/2	**RCP3–463**	**RCP4–463**	**RCP5–463**
	65.0			**RCP3–465**	**RCP4–465**	**RCP5–465**
	70.0			**RCP3–470**	**RCP4–470**	**RCP5–470**

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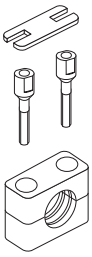
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Tube clamps series C – Complete range (Continued)

Polypropylene – **RCP**
Inside smooth – **RCPG**[1])
Polyamide 6 – **RCN**
Rubber – **RCVR***
Aluminium – **RCA**

(As required please exchange standard abbreviation RCP in column for "Order code")

2 clamp halves, locking plate, stacking bolts



SPC...
ASC...
RCP...

clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code
	70.0			**RCP5–570**
	73.0			**RCP5–573**
	75.0			**RCP5–575**
5	76.1	G 2½	3	**RCP5–576.1**
	80.0			**RCP5–580**
	82.5		3¼	**RCP5–582.5**
	88.9	G 3	3½	**RCP5–588.9**
	90.0			**RCP5–590**
	90.0			**RCP5–690**
	97.0			**RCP5–697**
	100.0			**RCP5–6100**
6	101.6	G 3½	4	**RCP5–6101.6**
	108.0		4¼	**RCP5–6108**
	114.3	G 4	4½	**RCP5–6114.3**
	127.0		5	**RCP5–6127**
	127.0		5	**RCP5–7127**
	133.0		5¼	**RCP5–7133**
	140.0	G 5	5½	**RCP5–7140**
7	150.0			**RCP5–7150**
	152.4	G 5½	6	**RCP5–7152.4**
	159.0		6¼	**RCP5–7159**
	165.1	G 6	6½	**RCP5–7165.1**
	168.3		6⅝	**RCP5–7168.3**
	168.3		6⅝	**RCP5–8168.3**
	177.8		7	**RCP5–8177.8**
8	193.7		7⅝	**RCP5–8193.7**
	203.0			**RCP5–8203**
	219.1	G 8	8⅝	**RCP5–8219.1**
	220.0			**RCP5–8220**

Delivery in unassembled individual components.
[1]) Only sizes 1–4
* Only with cover plate, hexagon screws and locking washers (only sizes 1–4).

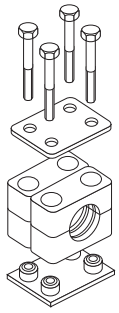
Tube clamps

Tube clamps series C – Complete range

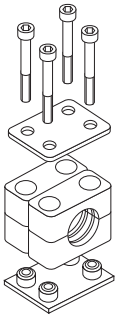
Polypropylene – **RCPD**
Inside smooth – **RCPDG**[1])
Polyamide 6 – **RCND**
Rubber – **RCVDR***
Aluminium – **RCAD**

(As required please exchange standard abbreviation RCP in column for "Order code")

4 clamp halves, double weld plate, double cover plate, hex. head bolts



4 clamp halves, double weld plate, double cover plate, socket head bolts



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code
	6.0			**RCPD1–106**	**RCPD2–106**
	8.0		5/16	**RCPD1–108**	**RCPD2–108**
	10.0	G 1/8		**RCPD1–110**	**RCPD2–110**
	12.0			**RCPD1–112**	**RCPD2–112**
	12.7		1/2	**RCPD1–112.7**	**RCPD2–112.7**
1	13.5	G 1/4		**RCPD1–113.5**	**RCPD2–113.5**
	14.0			**RCPD1–114**	**RCPD2–114**
	15.0			**RCPD1–115**	**RCPD2–115**
	16.0		5/8	**RCPD1–116**	**RCPD2–116**
	17.2	G 3/8		**RCPD1–117.2**	**RCPD2–117.2**
	18.0			**RCPD1–118**	**RCPD2–118**
	19.0		3/4	**RCPD1–219**	**RCPD2–219**
	20.0			**RCPD1–220**	**RCPD2–220**
	21.3	G 1/2		**RCPD1–221.3**	**RCPD2–221.3**
	22.0			**RCPD1–222**	**RCPD2–222**
2	23.0			**RCPD1–223**	**RCPD2–223**
	25.0		1	**RCPD1–225**	**RCPD2–225**
	26.9	G 3/4		**RCPD1–226.9**	**RCPD2–226.9**
	28.0			**RCPD1–228**	**RCPD2–228**
	30.0			**RCPD1–230**	**RCPD2–230**
	30.0			**RCPD1–330**	**RCPD2–330**
	32.0		1 1/4	**RCPD1–332**	**RCPD2–332**
	33.7	G 1		**RCPD1–333.7**	**RCPD2–333.7**
3	35.0			**RCPD1–335**	**RCPD2–335**
	38.0		1 1/2	**RCPD1–338**	**RCPD2–338**
	40.0			**RCPD1–340**	**RCPD2–340**
	42.0	G 1 1/4		**RCPD1–342**	**RCPD2–342**
	38.0		1 1/2	**RCPD1–438**	**RCPD2–438**
	40.0			**RCPD1–440**	**RCPD2–440**
	42.0	G 1 1/4		**RCPD1–442**	**RCPD2–442**
	45.0			**RCPD1–445**	**RCPD2–445**
	48.3	G 1 1/2		**RCPD1–448.3**	**RCPD2–448.3**
	50.0			**RCPD1–450**	**RCPD2–450**
4	51.0		2	**RCPD1–451**	**RCPD2–451**
	52.0			**RCPD1–452**	**RCPD2–452**
	55.0			**RCPD1–455**	**RCPD2–455**
	57.0		2 1/4	**RCPD1–457**	**RCPD2–457**
	60.3	G 2		**RCPD1–460.3**	**RCPD2–460.3**
	63.0		2 1/2	**RCPD1–463**	**RCPD2–463**
	65.0			**RCPD1–465**	**RCPD2–465**
	70.0			**RCPD1–470**	**RCPD2–470**

Continuation see next page ...

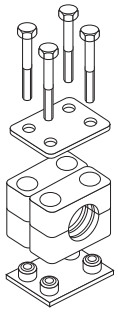
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Tube clamps series C – Complete range (Continued)

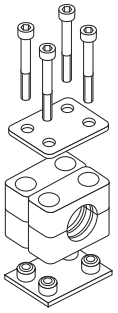
Polypropylene – **RCPD**
Inside smooth – **RCPDG[1)]**
Polyamide 6 – **RCND**
Rubber – **RCVDR***
Aluminium – **RCAD**

(As required please exchange standard abbreviation RCP in column for "Order code")

4 clamp halves, double weld plate, double cover plate, hex. head bolts



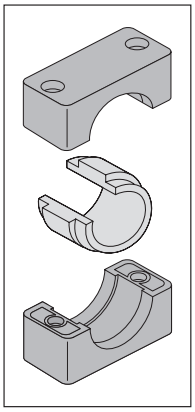
4 clamp halves, double weld plate, double cover plate, socket head bolts



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code
	70.0			**RCPD1–570**	**RCPD2–570**
	73.0			**RCPD1–573**	**RCPD2–573**
	75.0			**RCPD1–575**	**RCPD2–575**
5	76.1	G 2½	3	**RCPD1–576.1**	**RCPD2–576.1**
	80.0			**RCPD1–580**	**RCPD2–580**
	82.5		3¼	**RCPD1–582.5**	**RCPD2–582.5**
	88.9	G 3	3½	**RCPD1–588.9**	**RCPD2–588.9**
	90.0			**RCPD1–590**	**RCPD2–590**
	90.0			**RCPD1–690**	**RCPD2–690**
	97.0			**RCPD1–697**	**RCPD2–697**
	100.0			**RCPD1–6100**	**RCPD2–6100**
6	101.6	G 3½	4	**RCPD1–6101.6**	**RCPD2–6101.6**
	108.0		4¼	**RCPD1–6108**	**RCPD2–6108**
	114.3	G 4	4½	**RCPD1–6114.3**	**RCPD2–6114.3**
	127.0		5	**RCPD1–6127**	**RCPD2–6127**
	127.0		5	**RCPD1–7127**	**RCPD2–7127**
	133.0		5¼	**RCPD1–7133**	**RCPD2–7133**
	140.0	G 5	5½	**RCPD1–7140**	**RCPD2–7140**
7	150.0			**RCPD1–7150**	**RCPD2–7150**
	152.4	G 5½	6	**RCPD1–7152.4**	**RCPD2–7152.4**
	159.0		6¼	**RCPD1–7159**	**RCPD2–7159**
	165.1	G 6	6½	**RCPD1–7165.1**	**RCPD2–7165.1**
	168.3		6⅝	**RCPD1–7168.3**	**RCPD2–7168.3**
	168.3		6⅝	**RCPD1–8168.3**	**RCPD2–8168.3**
	177.8		7	**RCPD1–8177.8**	**RCPD2–8177.8**
8	193.7		7⅝	**RCPD1–8193.7**	**RCPD2–8193.7**
	203.0			**RCPD1–8203**	**RCPD2–8203**
	219.1	G 8	8⅝	**RCPD1–8219.1**	**RCPD2–8219.1**
	220.0			**RCPD1–8220**	**RCPD2–8220**

Delivery in unassembled individual components.
[1)] Only sizes 1–4
* Only with cover plate, hexagon screws and locking washers (only sizes 1–4).

Tube Clamps with Elastomer Inlay Serie A



Light Constr. Series

Order codes for clamp-halves:

Polypropylene – **RAPE**
Polyamide 6 – **RANE**

Elastomer Inlay

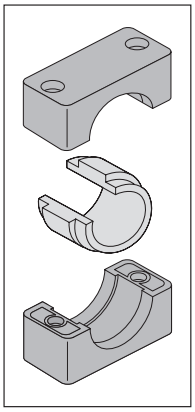
Order code: EE-∗

∗complete with clamp size and outside tube diameter

Clamp size Serie A	Tube O.D. mm	Series A Clamp body	Clamp body with elastomer inlay	Elastomer inlay
4	6.0	RAPE4X	RAPE406X	EE206/406X
	8.0		RAPE408X	EE208/408X
	10.0		RAPE410X	EE210/410X
	12.0		RAPE412X	EE212/412X
	12.7		RAPE412.7X	EE212.7/412.7X
	14.0		RAPE414X	EE214/414X
	15.0		RAPE415X	EE215/415X
	16.0		RAPE416X	EE216/416X
	17.2		RAPE417.2X	EE217.2/417.2X
	18.0		RAPE418X	EE218/418X
	19.0		RAPE419X	EE219/419X
5	20.0	RAPE5X	RAPE520X	EE520X
	22.0		RAPE522X	EE522X
	25.0		RAPE525X	EE525X
	28.0		RAPE528X	EE528X
	30.0		RAPE530X	EE530X
6	20.0	RAPE6X	RAPE620X	EE320/620X
	21.3		RAPE621.3X	EE321.3/621.3X
	22.0		RAPE622X	EE322/622X
	23.0		RAPE623X	EE323/623X
	25.0		RAPE625X	EE325/625X
	26.9		RAPE626.9X	EE326.9/626.9X
	28.0		RAPE628X	EE328/628X
	30.0		RAPE630X	EE330/630X
	32.0		RAPE632X	EE332/632X
6	35.0	RAPE6X	RAPE635X	EE635X
	38.0		RAPE638X	EE638X
	42.0		RAPE642X	EE642X
	45.0		RAPE645X	EE645X

Attention! For clamps with elastomer inlay, the relation of diameter and size is not identical with the profile design or smooth design.

Tube Clamps with Elastomer Inlay Serie C



Heavy Series

Order codes for clamp-halves:

Polypropylene – **RCPE**
Polyamide 6 – **RCNE**

Elastomer Inlay

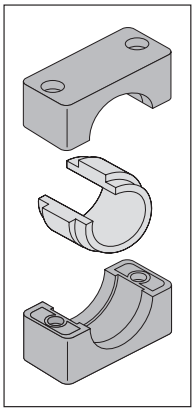
Order code: EE-∗

∗complete with clamp size and outside tube diameter

Clamp size Serie C	Tube O.D. mm	Series C Clamp body	Clamp body with elastomer inlay	Elastomer inlay
2	6.0	RCPE2X	RCPE206X	EE206/406X
	8.0		RCPE208X	EE208/408X
	10.0		RCPE210X	EE210/410X
	12.0		RCPE212X	EE212/412X
	12.7		RCPE212.7X	EE212.7/412.7X
	14.0		RCPE214X	EE214/414X
	15.0		RCPE215X	EE215/415X
	16.0		RCPE216X	EE216/416X
	17.2		RCPE217.2X	EE217.2/417.2X
	18.0		RCPE218X	EE218/418X
	19.0		RCPE219X	EE219/419X
3	20.0	RCPE3X	RCPE320X	EE320/620X
	21.3		RCPE321.3X	EE321.3/621.3X
	22.0		RCPE322X	EE322/622X
	23.0		RCPE323X	EE323/623X
	25.0		RCPE325X	EE325/625X
	26.9		RCPE326.9X	EE326.9/626.9X
	28.0		RCPE328X	EE328/628X
	30.0		RCPE330X	EE330/630X
	32.0		RCPE332X	EE332/632X
4	32.0	RCPE4X	RCPE432X	EE432X
	33.7		RCPE433.7X	EE433.7X
	35.0		RCPE435X	EE435X
	38.0		RCPE438X	EE438X
	40.0		RCPE440X	EE440X
	42.0		RCPE442X	EE442X
	45.5		RCPE445.5X	EE445.5X
	48.0		RCPE448X	EE448X
	51.0		RCPE451X	EE451X
	53.4		RCPE453.4	EE453.4X
	56.4		RCPE456.4X	EE456.4X
	60.3		RCPE460.3X	EE460.3X
5	57.0	RCPE5X	RCPE557X	EE557X
	60.3		RCPE560.3X	EE560.3X
	63.5		RCPE563.5X	EE563.5X
	65.0		RCPE565X	EE565X
	70.0		RCPE570X	EE570X
	73.0		RCPE573X	EE573X
	76.1		RCPE576.1X	EE576.1X

Attention! For clamps with elastomer inlay, the relation of diameter and size is not identical with the profile design or smooth design.

Tube Clamps with Elastomer Inlay Serie C



Heavy Series

Order codes for clamp-halves:

Polypropylene – **RCPE**
Polyamide 6 – **RCNE**

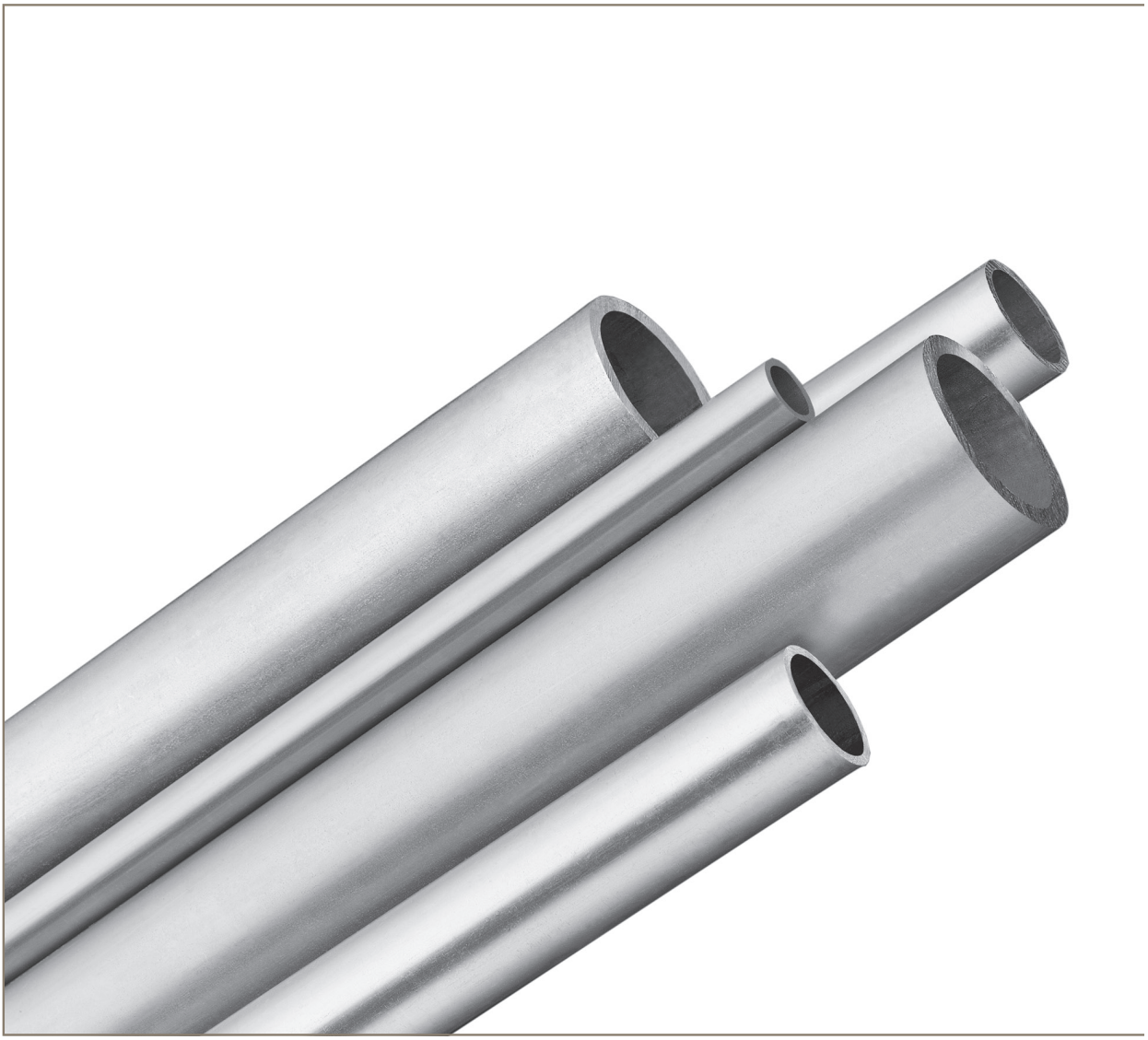
Elastomer Inlay

Order code: EE-∗

∗complete with clamp size and outside tube diameter

Clamp size Serie C	Tube O.D. mm	Series C Clamp body	Clamp body with elastomer inlay	Elastomer inlay
6	80.0	RCPE6X	**RCPE680X**	**EE680X**
	82.5		**RCPE682.5X**	**EE682.5X**
	88.9		**RCPE688.9X**	**EE688.9X**
	100.0		**RCPE6100X**	**EE6100X**
	101.6		**RCPE6101.6X**	**EE6101.6X**
7	101.6	RCPE7X	**RCPE7101.6X**	**EE7101.6X**
	108.0		**RCPE7108X**	**EE7108X**
	114.3		**RCPE7114.3X**	**EE7114.3X**
	127.0		**RCPE7127X**	**EE7127X**
	133.0		**RCPE7133X**	**EE7133X**

Attention! For clamps with elastomer inlay, the relation of diameter and size is not identical with the profile design or smooth design.



Pipes and tubes

This chapter contains only a small selection.
An extended part range and more details can be found in chapter S of the catalogue 4100.

ENGINEERING YOUR SUCCESS.

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Tube and pipe specification

Recommended carbon steel tubes and pipes
Parker recommends the use of cold drawn seamless and regular annealed (abbreviation +N) hydraulic tubes and pipes acc.:
DIN-EN 10305 (old DIN 2391) and ISO 3304
For the assembly of steel fittings, steel tubes made of material E235 (ST37.4 +N) and E355 (ST52.4 +N) are recommended.

+ precision dimension/shape
+ high pressure capability
+ clean inside (no scale)
+ excellent scaling surface after roll flaring

Recommended stainless steel tubes and pipes
Parker reccommends the use of seamless cold drawn stainless steel tubes and pipes acc. to:
DIN EN 10216-5, ASTM A269/A213, ASTM A312.

EO precision stainless steel tube meets and exceeds these standards. The tolerances of the pipe outer diameter and wall thickness are even closer to ensure a safe interplay with our fitting systems.

For the assembly of stainless steel tube fittings, EO precision stainless steel tubes made of material 316 Ti and 316L are recommended.

+ precision dimension/shape
+ high pressure capability
+ excellent scaling surface after roll flaring

Welded tubes and pipes
Tubes and pipes acc. to below specification but welded and cold redrawn instead of seamless drawn are usually suitable.
Pressure capability might be reduced due to the welding seam zone.
Welding seam quality might effect roll flaring surface results.

Hot rolled pipes
Hot rolled pipes are not recommended for the following reasons:
Hot rolled pipes do not have precision dimensions and may slip in machine dies.
They have scales inside and outside. The inside scales effect the cleanliness level of the fluid and reduces fatigue levels. Used in roll flaring process the scales will contaminate the flaring tools (high cleaning effort) and cause poor flare surface quality.

The required maximum working pressure is calculated either acc. to DIN or DNV.

Material Specifications & Values

E235+N / St.37.4 (1.0308) acc. to DIN EN 10305-4	
Tensile strength	min. 340 N/mm²
Yield strength	min. 235 N/mm²
Fatigue strength	225 N/mm² [1]
Elongation at break	min.. 25%

E355+N / St.52.4 (1.0580) acc. to DIN EN 10305-4	
Tensile strength	min. 490 N/mm²
Yield strength	min. 355 N/mm²
Fatigue strength	265 N/mm² [2]
Elongation at break	min.. 22 %

316Ti (1.4571) cold drawn (CFA) acc. to DIN EN 10216-5	
Tensile strength	min. 500 N/mm²
0.2 % proof stress	min. 210 N/mm²
1 % proof stress	min. 245 N/mm²
Fatigue strength	220 N/mm² [2]
Elongation at break	min. 35 %

316L (1.4404) cold drawn (CFA)[3] acc. to DIN EN 10216-5	
Tensile strength	min. 500 N/mm²
0.2 % proof stress	min. 210 N/mm²
1 % proof stress	min. 245 N/mm²
Elongation at break	min. 35 %

316L (1.4404) acc. to ASTM A269 / A213	
Tensile strength	min. 530 N/mm²
Yield strength	min. 276 N/mm²
0.2 % proof stress / 1.6 [4]	172.5 N/mm²

316L (1.4404) acc. to ASTM A312 / A530	
Tensile strength	min. 515 N/mm²
Yield strength	min. 234 N/mm²
0.2 % proof stress / 1.6 [4]	146 N/mm²

[1] DIN 2413, 6.331
[2] No standard value, Experience value
[3] Strength increase due to cold forming following 1.4571
[4] Pressure rating calculation based on this mechanical properties require certification according to 3.1 - EN 10204 that confirmes the mechanical properties.

Tube calculation for industrial and mobile applications acc. to DIN rules

DIN 2413 I, only for static load

Calculation of working pressure of steel tubes for static stress up to 120°C. Corrosion - additional allowancess are not considered for the calculation of pressures. Tubes with a diameter of OD/ ID > 2 are calculated for static stress in accordance with DIN 2413 III, but with K = yield strength.

$$P = \frac{20 * K * s * c}{S * D}$$

P = permissible working pressure [bar]
K = yield strength [N/mm²]
s = tube wall thickness [mm]
c = factor for wall thickness allowance
= 0.8 for Tube-OD 4-5
= 0.85 for Tube-OD 6-8
= 0.9 from Tube-OD 10
= 0.9 for all stainless steel tubes
S = Safety factor = 1.5
D = tube outside diameter [mm]

Burst pressure calculation

Calculation of static burst pressure for seamless tubes acc. to Faupel-von-Mises.

$$BP = R_{p0.2} * 10 \frac{2}{\sqrt{3}} \ln \frac{D}{d} * (2 - \frac{R_{p0.2}}{R_m})$$

BP = Min. static burst pressure [bar]
R = tensile strength [N/mm²]
R_{p02} = 0.2% proof stress, yield strength [N/mm²]
D = Tube outside diameter [mm]r
d = Tube inside diameter [mm]

DIN 2413 III, for dynamic load

Calculation of working pressure of steel tubes for dynamic stress up to 120°C.
Corrosion - additional allowances are not considered for the calculation of pressures.

$$P = \frac{20 * K * s * c}{S * (D + s * c)}$$

P = permissible working pressure [bar]
K = fatigue strength [N/mm²]
s = tube wall thickness [mm]
c = factor for wall thickness allowance
= 0.8 for Tube-OD 4-5
= 0.85 for Tube-OD 6-8
= 0.9 for Tube-OD 10-80
= 0.9 for all stainless steel tubes
S = safety factor = 1.5
D = tube outside diameter [mm]

Tube calculation for marine and offshore acc. to DNV rules

Calculation of working pressure of steel and stainless steel tubes for ship building acc. to DNV Part 4, Chapter 6, Section 6.

$$P = \frac{20 * \sigma_t * e * t_0}{D - t_0}$$

Calculation of burst pressure:

$$BP = \frac{20 * R_m * t_n * a}{D - t_n * a}$$

P = permissible working pressure [bar]
BP = approximate burst pressure [bar]
σ_t = permissible stress [N/mm²]
calculated from the lower value off:

stainless steel: $\sigma_t = \frac{R_m}{2.7}$ or $\frac{K}{1.6}$

carbon steel: $\sigma_t = \frac{R_m}{2.7}$ or $\frac{K}{1.8}$

t_0 = tube wall thickness without allowences [mm]

$t_0 = t_n \cdot a - c - b$

t_n = tube wall thickness nominal [mm]
a = factor for wall thickness allowence
= 0.8 for Tube-OD 4-5, 0.85 for Tube-OD 6-8, 0.9 for Tube-OD >=10
= 0.875 for Schedule Pipes
= 0.9 for all stainless steel tubes
b = bending allowence

$$b = \frac{1}{2.5} * \frac{D}{R} * t_0$$

$b = 0.1333 * t_0$ (at R/D=3) $\rightarrow$ $t_0 = \frac{t_n * a - c}{1.1333}$

c = corrosion tolerance, c = 0.3 mm for hydraulic steel tube, c = 0 mm for SS tubes
e = strength ratio: for seamless tubes e = 1
D = tube outside diameter [mm]
R_m = min. tensile strength [N/mm²]
K = min. yield strength or min 0.2% proof stress [N/mm²]

Pressure reductions and temperatures

Required pressure reductions (depending on the material) with reference to the catalogue pressures for higher temperatures.
Both metal fitting material and elastomeric sealing compound have to be selected according to the temperature range of the system.

DNV may require different pressure reduction based on application

Material	Pressure reduction of permissable operating temperatures TB in °C														
	-60	-54	-40	-35	-25	+20	+50	+100	+120	+150	+175	+200	+250	+300	+400
Steel components			-10%				0%			-11 %	-19 %				
Steel, tubes			-10%				0%			-19 %			-27 %		
Stainless steel components	0%						-5%	-15%	-23%		-29%		-33%	-37%	-42%
Stainless steel, tubes	0 %						-5.5 %	-11.5%	-21.5 %				-29 %		-34%
Sealing material NBR (e.g. Perbunan)															
Sealing material FKM															
Sealing material Polyurethan (P5008)															

Permissible operating temperature
Ambient temperature of hydraulic and pneumatic applications
Temperature not permissible

Calculation example:
Temperature = 200°C
Material = Stainless steel
Pressure reduction = 29%
Pressure reduction tubes = 21.5%
PN tube 16x2.5/71. DIN2413 III = 362 bar

Formula:

$$PN_{200°C} = \frac{400\ \text{bar}}{100\%} \times (100\% - 29\%) = 284\ \text{bar}$$

$$PN_{\text{tube } 200°C} = \frac{362\ \text{bar}}{100\%} \times (100\% - 21.5\%) = 284\ \text{bar}$$

Flow diameter of tube lines

Determining tube sizes for hydraulic systems

Proper tube material, type and size for a given application and type of fitting are critical for efficient and trouble-free operation of the fluid system. Selection of proper tubing involves choosing the right tube material, and determining the optimum tube size (O.D. and wall thickness).
Proper sizing of the tube for various parts of a hydraulic system results in an optimum combination of efficient and cost effective performance.
A tube that is too small causes high fluid velocity, which has many detrimental effects. In pressure lines, it causes high friction losses and turbulence, both resulting in high pressure drops and heat generation. High heat accelerates wear in moving parts and rapid aging of seals and hoses, all resulting in reduced component life. High heat generation also means wasted energy, and hence, low efficiency. Too large tubes increase system cost. Thus, optimum tube sizing is very critical. The following is a simple procedure for sizing tubes.

Determine required flow diameter

Use table to determine recommended flow diameter for the required flow rate and type of line.

The table is based on the following recommended flow rates that are common in the shipbuilding and offshore engineering:

Pressure lines – 3 –>7.2 $\left[\frac{m}{s}\right]$

Return lines – 2 –>4.5 $\left[\frac{m}{s}\right]$

Suction lines – 1 –>1.8 $\left[\frac{m}{s}\right]$

Avoid flow rates > 8 m/s!
The resulting forces are high and can destroy the tube lines.

If you desire to use different velocities than the above, use the following formula to determine the required flow diameter.

$$\text{Tube – I.D. [mm]} = 4{,}61 \times \sqrt{\frac{\text{Flow } \left[\frac{\text{ltr.}}{\text{min}}\right]}{\text{Velocity } \left[\frac{m}{s}\right]}}$$

Determine required wall thickness

Use tube/pressure calculation tables shown in the tube chapter to determine recommended wall thickness for the required working pressure and flow diameter of the line. Therefore choose a working pressure which is equal or higher than the required working pressure.

Flow characteristics

Hydraulic systems are in most cases only rated with a flow velocity defined on the basis of experience. The pressure losses in lines are not taken into account, or measured later on when testing the system. As the pressure losses increase porportionally greater than the flow resistance, it is important to achieve the best rating of the system, so that they are already taken into account when planning the tube connections. Calculation is not as difficult as it is often thought, and this chapter is intended to provide a guideline. Besides, it provides information on how excessive pressure losses can be avoided, because pressure losses result in losses in performance and excessive heat. Noise occurs and possibly cavitation in suction lines.

Medium

All indication given with regard to flow restrictions and to flow properties refer exclusively to liquids. For gaseous media, the variable density of the gas must additionally be taken into account.

Units

c = Flow velocity [ ]

d = Pipe inside diameter [m]
L = Pipe length [m]
p = Pressure [Pa], 1 bar = 100000 Pa

V = Flow rate [ ], 1 = 60000
λ = Pipe friction factor

$\upsilon(T)$ = Kinematic viscosity of the medium depending on temperature $\left[\frac{m^2}{s}\right]$

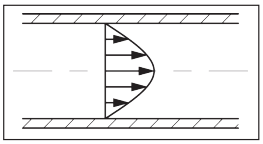
$\rho(T)$ = Density of the medium depending on temperature $\left[\frac{kg}{m^3}\right]$

ζ = Individual pressure loss coefficient

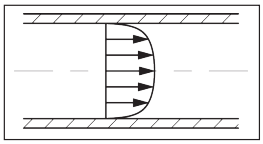
Only base units have been used. This has the advantage that the formula do not contain correction factors and there is no danger of confusion, e.g. that values are used with the wrong unit. In case values are given in other units – the flow rate is e.g. often given in l/min – it is advisable to convert them into the base units before starting calculation.

Pressure losses in pipe lines

To calculate pressure losses in pipe lines, it must first be determined whether there is a laminar or a turbulent flow. Laminar flow is homogenous and without turbulence. In case of turbulent flow, the losses increase much more quickly.



Flow profile with laminar flow



Flow profile with turbulent flow

The kind of flow is defined by the Reynolds' number. With a Reynolds' number of more than 2320, the flow changes to turbulent. The Reynolds' number is calculated according to the formula:

$$Re = \frac{c \cdot d}{\upsilon(T)}$$

The Reynolds' number is a non-dimensional number. The critical fluid velocity at which the flow regime can change, is thus calculated from:

$$c_{cr} = 2320 \cdot \frac{\upsilon(T)}{d} \left[\frac{m}{s}\right]$$

With a given flow rate, the fluid velocity can be calculated according to the formula:

$$c = \frac{\dot{V} \cdot 4}{d^2 \cdot \pi} \left[\frac{m}{s}\right]$$

Subsequently, the pipe friction factor λ can be calculated. The pipe friction factor λ is a function of the Reynolds' number and also depends on the roughness of the pipe. As hydraulically smooth pipes can generally be assumed in hydraulic applications, the pipe friction factor λ is calculated according to the following formula:

$$\text{laminar flow, } (Re < 2320): \lambda = \frac{64}{Re}$$

$$\textit{turbulent flow, } (Re > 2320): \lambda = \frac{0.3164}{\sqrt[4]{Re}}$$

Finally, if all factors are known, the pressure loss in a certain pipe line can be calculated according to the formula:

$$\Delta p = \lambda \cdot \frac{L}{d} \cdot \frac{\rho(T) \cdot c^2}{2} \text{ [Pa]}$$

Calculation of individual losses

A hydraulic system does not only incorporate pipes, but also valves, fittings, pipe bends etc. that cause flow losses. These individual losses are often much higher than the pipe losses and are calculated according to the following formula:

$$\Delta p = \zeta \cdot \rho(T) \cdot \frac{c^2}{2} \text{ [Pa]}$$

EO-Tubes – Marine and offshore applications (DNV Rules)

1 DNV Bended pipe including manufacturing and corrosion tolerances.
2 DNV Straight pipe including manufacturing and corrosion tolerances.
3 Burst pressure (B.P.) calculation = Based on Tensile value, wall thickness tolerance not included.

Seamless EO steel tubes - Material E235+N / St. 37.4 (1.0308) acc. to DIN EN 10305-4

Material E235+N / St.37.4 (1.0308)		d_a Outer-Ø (mm)	Outer-Ø Tolerance (mm)	s Wall-thickness (mm)	d_i Inner-Ø (mm)	Design pressure		3 Burst pressure bar	Weight kg/m
Surface						1 DNV PN bar	2 DNV PN bar		
Phosphated and oiled	Cr(VI)-free								
Order code									
R12X1.5	**R12X1.5CF**	12	±0.08	1.5	9.0	218	250	1114	0.388
R16X2	**R16X2CF**	16	±0.08	2.0	12.0	235	270	1114	0.691
R18X2	**R18X2CF**	18	±0.08	2.0	14.0	207	237	975	0.789
R20X2	**R20X2CF**	20	±0.08	2.0	16.0	185	212	867	0.888
R20X2.5	**R20X2.5CF**	20		2.5	15.0	246	282	1114	1.079
R25X2.5	**R25X2.5CF**	25	±0.08	2.5	20.0	193	221	867	1.387
R25X3	**R25X3CF**	25		3.0	19.0	242	277	1064	1.628
R30X3	**R30X3CF**	30	±0.08	3.0	24.0	198	227	867	1.998
R30X4	**R30X4CF**	30		4.0	22.0	281	323	1200	2.565
	R38X2.5CF	38	±0.15	2.5	33.0	124	141	549	2.189
R38X3	**R38X3CF**	38		3.0	32.0	154	176	669	2.589
R38X4	**R38X4CF**	38		4.0	30.0	217	248	918	3.354
R38X5	**R38X5CF**	38		5.0	28.0	282	324	1182	4.069
R42X2	**R42X2CF**	42	±0.20	2.0	38.0	85	97	390	1.973
R42X3	**R42X3CF**	42		3.0	36.0	139	158	600	2.885
R42X4	**R42X4CF**	42		4.0	34.0	194	223	821	3.748
R50X3	**R50X3CF**	50	±0.20	3.0	44.0	115	132	498	3.477
R50X6		50		6.0	38.0	258	296	1064	6.511
R60X3	**R60X3CF**	60	±0.25	3.0	54.0	95	109	411	4.217
R65X8		65	±0.30	8.0	49.0	270	310	1095	11.245
R75X3	**R75X3CF**	75	±0.35	3.0	69.0	76	86	325	5.327
R90X3.5	**R90X3.5CF**	90	±0.40	3.5	83.0	75	85	316	7.466
R100X4		100	±0.45	4.0	92.0	78	89	325	9.470
R115X4		115	±0.50	4.0	107.0	68	77	281	10.949
R140X4.5		140	±0.70	4.5	131.0	63	72	259	15.037
R165X5		165	±0.90	5.0	155.0	60	68	244	19.729
R220X6		220	±1.10	6.0	208.0	55	62	219	31.665
R273X6		273	±1.40	6.0	261.0	44	50	175	39.507

Other sizes on request

Surface finish:
- Tubes with I.D. 1.5-5 mm: outside and inside oiled.
- Tubes from 6 mm I.D.: outside and inside phosphated and oiled.
- Cr(VI)-free:
These dimensions are externally thick coat passivated (thickness of coat 8-12µm), inside oilded.

Pipes and tubes

EO-Tubes – Landbased and industrial applications (DIN Rules)

1 DIN 2413 I static pressure (W.P.) capability for straight pipe including manufacturing tolerance.
2 DIN 2413 III dynamic pressure (W.P.) capability for straight pipe including manufacturing tolerance.
3 Burst pressure (B.P.) calculation acc. to Faupel-von-Mises.

Seamless EO steel tubes - Material E235+N / St.37.4 (1.0308) acc. to DIN EN 10305-4

Material E235+N / St.37.4 (1.0308)		d_a Outer-Ø (mm)	Outer-Ø Tolerance (mm)	s Wall-thickness (mm)	d_i Inner-Ø (mm)	Design pressure		3 Burst pressure bar	Weight kg/m
Surface						1 DIN 2413 I static PN bar	2 DIN 2413 III dynamic PN bar		
Phosphated and oiled	Cr(VI)-free								
Order code									
R12X1.5	**R12X1.5CF**	12	±0.08	1.5	9.0	353	303	1022	0.388
R16X2	**R16X2CF**	16	±0.08	2.0	12.0	353	303	1022	0.691
R18X2	**R18X2CF**	18	±0.08	2.0	14.0	313	273	893	0.789
R20X2	**R20X2CF**	20	±0.08	2.0	16.0	282	248	793	0.888
R20X2.5	**R20X2.5CF**	20		2.5	15.0	353	303	1022	1.079
R25X2.5	**R25X2.5CF**	25	±0.08	2.5	20.0	282	248	793	1.387
R25X3	**R25X3CF**	25		3.0	19.0	338	292	975	1.628
R30X3	**R30X3CF**	30	±0.08	3.0	24.0	282	248	793	1.998
R30X4	**R30X4CF**	30		4.0	22.0	376	321	1102	2.565
	R38X2.5CF	38	±0.15	2.5	33.0	186	168	501	2.189
R38X3	**R38X3CF**	38		3.0	32.0	223	199	610	2.589
R38X4	**R38X4CF**	38		4.0	30.0	297	260	840	3.354
R38X5	**R38X5CF**	38		5.0	28.0	371	318	1085	4.069
R42X2	**R42X2CF**	42	±0.20	2.0	38.0	134	123	355	1.973
R42X3	**R42X3CF**	42		3.0	36.0	201	181	547	2.885
R42X4	**R42X4CF**	42		4.0	34.0	269	237	750	3.748
R50X3	**R50X3CF**	50	±0.20	3.0	44.0	169	154	454	3.477
R50X6		50		6.0	38.0	338	292	975	6.511
R60X3	**R60X3CF**	60	±0.25	3.0	54.0	141	129	374	4.217
R65X8		65	±0.30	8.0	49.0	347	299	1004	11.245
R75X3	**R75X3CF**	75	±0.35	3.0	69.0	113	104	296	5.327
R90X3.5	**R90X3.5CF**	90	±0.40	3.5	83.0	110	101	288	7.466
R100X4		100	±0.45	4.0	92.0	113	104	296	9.470
R115X4		115	±0.50	4.0	107.0	98	91	256	10.949
R140X4.5		140	±0.70	4.5	131.0	91	84	236	15.037
R165X5		165	±0.90	5.0	155.0	85	80	222	19.729
R220X6		220	±1.10	6.0	208.0	77	72	199	31.665
R273X6		273	±1.40	6.0	261.0	62	58	160	39.507

Other sizes on request

Surface finish:
- Tubes with I.D. 1.5-5 mm: outside and inside oiled.
- Tubes from 6 mm I.D.: outside and inside phosphated and oiled.
- Cr(VI)-free:
These dimensions are externally thick coat passivated (thickness of coat 8-12µm), inside oilded.

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EO-Tubes – Marine and Offshore applications (DNV Rules)

1 DNV Bended pipe including manufacturing and corrosion tolerances.
2 DNV Straight pipe including manufacturing and corrosion tolerances.
3 Burst pressure (B.P.) calculation = Based on Tensile value, wall thickness tolerance not included.

Seamless EO steel tubes - Material E355+N / St. 52.4 (1.0580) acc. to DIN EN 10305-4

Material E355+N / St. 52.4 (1.0580)		d_a Outer-Ø (mm)	Outer-Ø Tolerance (mm)	s Wall-thickness (mm)	d_i Inner-Ø (mm)	Design pressure		3 Burst pressure bar	Weight kg/m
Surface						1 DNV PN bar	2 DNV PN bar		
Phosphated and oiled	Cr(VI)-free								
Order code									
	R12X1.5ST52CF	12	±0.08	1.5	9.0	330	378	1523	0.388
R16X2ST52	**R16X2ST52CF**	16	±0.08	2.0	12.0	355	408	1523	0.691
	R18X2ST52CF	18	±0.08	2.0	14.0	313	358	1333	0.789
R20X2ST52	**R20X2ST52CF**	20	±0.08	2.0	16.0	279	319	1184	0.888
R20X2.5ST52	**R20X2.5ST52CF**	20		2.5	15.0	371	426	1523	1.079
	R25X2.5ST52CF	25		2.5	20.0	291	333	1184	1.387
R25X3ST52	**R25X3ST52CF**	25	±0.08	3.0	19.0	365	418	1454	1.628
	R25X4ST52CF	25		4.0	17.0	519	599	2030	2.072
R30X3ST52	**R30X3ST52CF**	30		3.0	24.0	299	343	1184	1.998
	R30X4ST52CF	30	±0.08	4.0	22.0	424	487	1640	2.565
	R30X5ST52CF	30		5.0	20.0	555	641	2132	3.083
	R38X3ST52CF	38		3.0	32.0	233	266	914	2,589
R38X4ST52	**R38X4ST52CF**	38	±0.15	4.0	30.0	327	375	1254	3.354
	R38X5ST52CF	38		5.0	28.0	426	490	1615	4.069
	R38X6ST52CF	38		6.0	26.0	529	611	1999	4.735
	R39X7.5ST52CF	39	±0.15	7.5	24.0	673	781	2538	5.826
	R42X3ST52CF	42		3.0	36.0	209	239	820	2.885
	R42X4ST52CF	42	±0.20	4.0	34.0	294	336	1122	3.748
	R42X5ST52CF	42		5.0	32.0	381	438	1441	4.562
	R46X8ST52CF	46	±0.20	8.0	30.0	601	695	2244	7.497
	R50X3ST52CF	50		3.0	44.0	174	199	680	3.477
R50X5ST52	**R50X5ST52CF**	50	±0.20	5.0	40.0	315	361	1184	5.549
	R50X6ST52CF	50		6.0	38.0	390	448	1454	6.511
	R50X8ST52CF	50		8.0	34.0	546	631	2030	8.286
R56X8.5ST52	**R56X8.5ST52CF**	56	±0.25	8.5	39.0	516	595	1908	9.957
	R60X3ST52CF	60		3.0	54.0	144	164	561	4.217
	R60X5ST52CF	60	±0.25	5.0	50.0	259	297	969	6.782
R60X6ST52	**R60X6ST52CF**	60		6.0	48.0	319	366	1184	7.990
	R60X8ST52CF	60		8.0	44.0	445	512	1640	10.259
	R65X8ST52CF	65	±0.30	8.0	49.0	407	468	1496	11.245
R66X8.5ST52	**R66X8.5ST52CF**	66	±0.30	8.5	49.0	429	494	1576	12.053
R73X7ST52	**R73X7ST52CF**	73	±0.35	7.0	59.0	308	353	1131	11.393
R75X5ST52	**R75X5ST52CF**	75	±0.35	5.0	65.0	205	234	761	8.631
R75X12.5ST52		75		12.5	50.0	583	674	2132	19.266
R80X3ST52		80		3.0	74.0	107	122	415	5.697
R80X8ST52		80	±0.35	8.0	64.0	325	372	1184	14.205
R80X10ST52		80		10.0	60.0	418	481	1523	17.263
R88X14ST52		88	±0.40	14.0	60.0	554	640	2017	25.549
R90X3.5ST52		90		3.5	83.0	113	129	431	7.466
R90X5ST52		90	±0.40	5.0	80.0	169	193	627	10.481
R90X9ST52		90		9.0	72.0	326	374	1184	17.978
R97X12ST52		97	±0.45	12.0	73.0	416	478	1505	25.154
R115X15ST52		115	±0.50	15.0	85.0	444	511	1599	36.992
R120X20ST52		120	±0.50	20.0	80.0	590	682	2132	49.322
R130X15ST52		130	±0.70	15.0	100.0	388	445	1390	42.540
R150X15ST52		150	±0.80	15.0	120.0	332	380	1184	49.939
R190X20ST52		190	±1.00	20.0	150.0	353	405	1254	83.847
R250X25ST52		250	±1.30	25.0	200.0	335	384	1184	138.718

Other sizes on request

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Pipes and tubes

EO-Tubes – Landbased and industrial applications (DIN Rules)

1 DIN 2413 I static pressure (W.P.) capability for straight pipe including manufacturing tolerance.
2 DIN 2413 III dynamic pressure (W.P.) capability for straight pipe including manufacturing tolerance.
3 Burst pressure (B.P.) calculation acc. to Faupel-von-Mises.

Seamless EO steel tubes - Material E355+N / St. 52.4 (1.0580) acc. to DIN EN 10305-4

Material E355+N / St. 52.4 (1.0580)		d_a Outer-Ø (mm)	OuterØ Tolerance (mm)	s Wal-thickness (mm)	d_i Inner-Ø (mm)	Design pressure		3 Burst pressure bar	Weight kg/m
Surface						1 DIN 2413 I static PN bar	2 DIN 2413 III dynamic PN bar		
Phosphated and oiled	Cr(VI)-free								
Order code									
	R12X1.5ST52CF	12	±0.08	1,5	9.0	533	357	1504	0.388
R16X2ST52	**R16X2ST52CF**	16	±0.08	2.0	12.0	533	357	1504	0.691
	R18X2ST52CF	18	±0.08	2.0	14.0	473	321	1314	0.789
R20X2ST52	**R20X2ST52CF**	20	±0.08	2.0	16.0	426	292	1167	0.888
R20X2.5ST52	**R20X2.5ST52CF**	20		2.5	15.0	533	357	1504	1.079
	R25X2.5ST52CF	25		2.5	20.0	426	292	1167	1.387
R25X3ST52	**R25X3ST52CF**	25	±0.08	3.0	19.0	511	344	1435	1.628
	R25X4ST52CF	25		4.0	17.0	682	445	2016	2.072
R30X3ST52	**R30X3ST52CF**	30		3.0	24.0	426	292	1167	1.998
	R30X4ST52CF	30	±0.08	4.0	22.0	568	379	1622	2.565
	R30X5ST52CF	30		5.0	20.0	710	461	2120	3.083
	R38X3ST52CF	38		3.0	32.0	336	234	899	2.589
R38X4ST52	**R38X4ST52CF**	38	±0.15	4.0	30.0	448	306	1236	3.354
	R38X5ST52CF	38		5.0	28.0	561	374	1597	4.069
	R38X6ST52CF	38		6.0	26.0	673	440	1984	4.735
	R39X7.5ST52CF	39	±0.15	7.5	24.0	819	521	2539	5.826
	R42X3ST52CF	42		3.0	36.0	304	213	806	2.885
	R42X4ST52CF	42	±0.20	4.0	34.0	406	279	1105	3.748
	R42X5ST52CF	42		5.0	32.0	507	342	1422	4.562
	R46X8ST52CF	46	±0.20	8.0	30.0	741	478	2235	7.497
	R50X3ST52CF	50		3.0	44.0	256	181	668	3.477
R50X5ST52	**R50X5ST52CF**	50	±0.20	5.0	40.0	426	292	1167	5.549
	R50X6ST52CF	50		6.0	38.0	511	344	1435	6.511
	R50X8ST52CF	50		8.0	34.0	682	445	2016	8.286
R56X8.5ST52	**R56X8.5ST52CF**	56	±0.25	8.5	39.0	647	425	1892	9.957
	R60X3ST52CF	60		3.0	54.0	213	152	551	4.217
	R60X5ST52CF	60	±0.25	5.0	50.0	355	247	953	6.782
R60X6ST52	**R60X6ST52CF**	60		6.0	48.0	426	292	1167	7.990
	R60X8ST52CF	60		8.0	44.0	568	379	1622	10.259
	R65X8ST52CF	65	±0.30	8.0	49.0	524	352	1477	11.245
R66X8.5ST52	**R66X8.5ST52CF**	66	±0.30	8.5	49.0	549	367	1557	12.053
R73X7ST52	**R73X7ST52CF**	73	±0.35	7.0	59.0	408	281	1113	11.393
R75X5ST52	**R75X5ST52CF**	75	±0.35	5.0	65.0	284	200	748	8.631
R75X12.5ST52		75		12.5	50.0	710	461	2120	19.266
R80X3ST52		80		3.0	74.0	160	115	408	5.697
R80X8ST52		80	±0.35	8.0	64.0	426	292	1167	14.205
R80X10ST52		80		10.0	60.0	533	357	1504	17.263
R88X14ST52		88	±0.40	14.0	60.0	678	443	2002	25.549
R90X3.5ST52		90		3.5	83.0	166	119	423	7.466
R90X5ST52		90	±0.40	5.0	80.0	237	168	616	10.481
R90X9ST52		90		9.0	72.0	426	292	1167	17.978
R97X12ST52		97	±0.45	12.0	73.0	527	354	1486	25.154
R115X15ST52		115	±0.50	15.0	85.0	556	371	1580	36.992
R120X20ST52		120	±0.50	20.0	80.0	710	461	2120	49.322
R130X15ST52		130	±0.70	15.0	100.0	492	332	1372	42.540
R150X15ST52		150	±0.80	15.0	120.0	426	292	1167	49.939
R190X20ST52		190	±1.00	20.0	150.0	448	306	1236	83.847
R250X25ST52		250	±1.30	25.0	200.0	426	292	1167	138.718

Other sizes on request

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EO-Tubes – Marine and Offshore applications (DNV Rules)

1 DNV Bended pipe including manufacturing and corrosion tolerances.
2 DNV Straight pipe including manufacturing and corrosion resistance.
3 Burst pressure (B.P.) calculation = Based on Tensile value, wall thickness tolerance not included.

Seamless cold drawn EO stainless steel tube - Material 316 Ti (1.4571) acc. to ASTM A269/A213, DIN EN 10305-4

Material 316Ti (1.4571) Surface bright annealed Order code	d_a Outer-Ø (mm)	OuterAußen-Ø Tolerance (mm)	s Wall-thickness (mm)	d_i Inner-Ø (mm)	Design pressure 1 DNV PN bar	Design pressure 2 DNV PN bar	3 Burst pressure bar	Weight kg/m
R12X1.571	12	±0.08	1.5	9.0	380	437	1514	0.394
R16X271	16	±0.08	2.0	12.0	380	437	1514	0.701
R18X271	18	±0.08	2.0	14.0	334	383	1325	0.801
R20X271	20	±0.08	2.0	16.0	298	341	1178	0.901
R20X2.571	20		2.5	15.0	380	437	1514	1.096
R25X2.571	25	±0.08	2.5	20.0	298	341	1178	1.409
R25X371	25		3.0	19.0	363	418	1445	1.653
R30X371	30	±0.08	3.0	24.0	298	341	1178	2.028
R30X471	30		4.0	22.0	409	470	1631	2.604
R38X2.571	38	±0.15	2.5	33.0	190	217	746	2.222
R38X471	38		4.0	30.0	315	361	1247	3.405
R42X371	42	±0.20	3.0	36.0	207	237	815	2.930

Other sizes on request

Pipes and tubes

EO-Tubes - Landbased and industrial applications (DIN Rules)

1 DIN 2413 I static pressure (W.P.) capability for straight pipe including manufacturing tolerance.
2 DIN 2413 III dynamic pressure (W.P.) capability for straight pipe including manufacturing tolerance.
3 Burst pressure (B.P.) calculation acc. to Faupel-von-Mises.

Seamless cold drawn EO stainless steel tube - Material 316 Ti (1.4571) acc. to ASTM A269/A213, DIN EN 10305-4

Material 316Ti (1.4571) / Surface bright annealed / Order code	d_a Outer-Ø (mm)	Outer-Ø Tolerance (mm)	s Wall-thickness (mm)	d_i Inner-Ø (mm)	Design pressure 1 DIN 2413 I static PN bar	Design pressure 2 DIN 2413 III dynamic PN bar	3 Burst pressure bar	Weight kg/m
R12X1.571	12	±0.08	1.5	9.0	368	297	1229	0.394
R16X271	16	±0.08	2.0	12.0	368	297	1229	0.701
R18X271	18	±0.08	2.0	14.0	327	267	1074	0.801
R20X271	20	±0.08	2.0	16.0	294	242	953	0.901
R20X2.571	20		2.5	15.0	368	297	1229	1.096
R25X2.571	25	±0.08	2.5	20.0	294	242	953	1.409
R25X371	25		3.0	19.0	353	286	1172	1.653
R30X371	30	±0.08	3.0	24.0	294	242	958	2.028
R30X471	30		4.0	22.0	392	314	1325	2.604
R38X2.571	38	±0.15	2.5	33.0	193	164	603	2.222
R38X471	38		4.0	30.0	309	254	1010	3.405
R42X371	42	±0.20	3.0	36.0	210	177	659	2.930

Other sizes on request

EO-Tubes – Marine and Offshore applications (DNV Rules)

1 DNV Bended pipe including manufacturing and corrosion tolerances.
2 DNV Straight pipe including manufacturing and corrosion tolerances.
3 Burst pressure (B.P.) calculation = Based on Tensile value, wall thickness tolerance not included.

Seamless cold drawn EO stainless steel tube - Material 316L (1.4404) acc. to ASTM A269/A213, DIN EN 10305-4

Material 316L (1.4404)		d_a Outer-Ø (mm)	Outer-Ø Tolerance (mm)	s Wall-thickness (mm)	d_i Inner-Ø (mm)	Design pressure		3 Burst pressure bar	Weight kg/m
Surface						1 DNV PN bar	2 DNV PN bar		
pickled	bright annealed								
Order code									
	R12X1.5-316BA	12	±0.08	1.5	9.0	380	437	1514	0.394
R16X2-316		16	±0.08	2.0	12.0	380	437	1514	0.701
R18X2-316		18	±0.08	2.0	14.0	334	383	1325	0.801
R20X2-316		20	±0.08	2.0	16.0	298	341	1178	0.901
R20X2.5-316		20		2.5	15.0	380	437	1514	1.096
R25X2.5-316		25	±0.08	2.5	20.0	298	341	1178	1.409
R25X3-316		25		3.0	19.0	363	418	1445	1.653
R30X3-316		30	±0.08	3.0	24.0	298	341	1178	2.028
R30X4-316		30		4.0	22.0	409	470	1631	2.604
R38X2.5-316		38	±0.15	2.5	33.0	190	217	746	2.222
R38X3-316		38		3.0	32.0	231	264	909	2.629
R38X4-316		38		4.0	30.0	315	361	1247	3.405
R38X5-316		38		5.0	28.0	403	463	1606	4.132
R42X3-316		42	±0.20	3.0	36.0	207	237	815	2.930
R50X3-316		50	±0.20	3.0	44.0	173	197	677	3.531
R50X5-316		50		5.0	40.0	298	341	1178	5.634
R50X6-316		50		6.0	38.0	363	418	1445	6.611
R60X3-316		60	±0.25	3.0	54.0	143	163	558	4.282
R60X5-316		60		5.0	50.0	244	280	964	6.886
R60X6-316		60		6.0	48.0	298	341	1178	8.113
R66X8.5-316		66	±0.30	8.5	49.0	393	452	1567	12.238
R73X7-316		73	±0.35	7.0	59.0	284	326	1124	11.568
R75X3-316		75	±0.35	3.0	69.0	113	129	442	5.409
R75X5-316		75		5.0	65.0	193	220	757	8.764
R80X10-316		80	±0.35	10.0	60.0	380	437	1514	17.528

Other sizes on request

EO-Tubes - Landbased and industrial applications (DIN Rules)

1 DIN 2413 I static pressure (W.P.) capability for straight pipe including manufacturing tolerance.
2 DIN 2413 III dynamic pressure (W.P.) capability for straight pipe including manufacturing tolerance.
3 Burst pressure (B.P.) calculation acc. to Faupel-von-Mises.

Seamless cold drawn EO stainless steel tube - Material 316L (1.4404) acc. to ASTM A269/A213, DIN EN 10305-4

Material 316L (1.4404)		d_a Outer-Ø (mm)	Outer-Ø Tolerance (mm)	s Wall-thickness (mm)	d_i Inner-Ø (mm)	Design pressure		3 Burst pressure bar	Weight kg/m
Surface						1 DIN 2413 I static PN bar	2 DIN 2413 III dynamic PN bar		
pickled	bright annealed								
Order code									
	R12X1.5-316BA	12	±0.08	1.5	9.0	368	297	1229	0.394
R16X2-316		16	±0.08	2.0	12.0	368	297	1229	0.701
R18X2-316		18	±0.08	2.0	14.0	327	267	1074	0.801
R20X2-316		20	±0.08	2.0	16.0	294	242	953	0.901
R20X2.5-316		20		2.5	15.0	368	297	1229	1.096
R25X2.5-316		25	±0.08	2.5	20.0	294	242	953	1.409
R25X3-316		25		3.0	19.0	353	286	1172	1.653
R30X3-316		30	±0.08	3.0	24.0	294	242	953	2.028
R30X4-316		30		4.0	22.0	392	314	1325	2.604
R38X2.5-316		38	±0.15	2.5	33.0	193	164	603	2.222
R38X3-316		38		3.0	32.0	232	195	734	2.629
R38X4-316		38		4.0	30.0	309	254	1010	3.405
R38X5-316		38		5.0	28.0	387	311	1305	4.132
R42X3-316		42	±0.20	3.0	36.0	210	177	659	2.930
R50X3-316		50	±0.20	3.0	44.0	176	150	546	3.531
R50X5-316		50		5.0	40.0	294	242	953	5.634
R50X6-316		50		6.0	38.0	353	286	1172	6.611
R60X3-316		60	±0.25	3.0	54.0	147	126	450	4.282
R60X5-316		60		5.0	50.0	245	205	779	6.886
R60X6-316		60		6.0	48.0	294	242	953	8.113
R66X8.5-316		66	±0.30	8.5	49.0	379	305	1272	12.238
R73X7-316		73	±0.35	7.0	59.0	282	233	910	11.568
R75X3-316		75	±0.35	3.0	69.0	118	102	356	5.409
R75X5-316		75		5.0	65.0	196	166	611	8.764
R80X10-316		80	±0.35	10.0	60.0	368	297	1229	17.528

Other sizes on request

EO-Tubes - Scheduled sizes

Pressure table acc. to DNV Rules for Classification fo Ships Newbuilding and Mobile Offshore Units Drilling Plants.
1 DNV Bended pipe including manufacturing and corrosion tolerances.
2 DNV Straight pipe including manufacturing and corrosion tolerances.
3 Burst pressure (B.P.) calculation = Bases on Tensile value, wall thickness tolerance not included.

Seamless stainless steel tubes - Material 316L (1.4404) acc. to ASTM A 312/A999

Material 316L (1.4404) Surface pickled Order code	d_a Outer-Ø SCH	d_a Outer-Ø mm	s Wallthickness SCH	s Wallthickness mm	d_i Inner-Ø (mm)	Design pressure 1 DNV PN bar	Design pressure 2 DNV PN bar	3 Burst pressure bar	Weight kg/m
R21.34X2.11-316	1/2"	21,.34	SCH 10	2.11	17.12	241	277	1130	1.014
R21.34X2.77-316			SCH 40	2.77	15.80	325	374	1536	1.285
R21.34X3.73-316			SCH 80	3.73	13.88	456	527	2182	1.641
R21.34X4.78-316			SCH 160	4.78	11.78	611	712	2973	1.977
R26.67X2.11-316	3/4"	26.67	SCH 10	2.11	24.56	190	217	885	1.299
R26.67X2.81-316			SCH 40	2.81	21.05	259	297	1213	1.713
R26.67X3.91-316			SCH 80	3.91	18.85	373	430	1769	2.231
R26.67X5.56-316			SCH 160	5.56	15.55	560	651	2713	2.943
R33.40X2.77-316-A999	1"	33.40	SCH 10	2.77	27.86	200	228	931	2.125
R33.40X3.38-316-A999			SCH 40	3.38	30.02	247	284	1160	2.541
R33.40X4.55-316-A999			SCH 80	4.55	24.30	343	395	1624	3.287
R33.40X6.35-316-A999			SCH 160	6.35	20.70	502	583	2418	4.301
R42.16X2.77-316-A999	1 1/4"	42.16	SCH 10	2.77	36.62	156	178	724	2.735
R42.16X3.56-316-A999			SCH 40	3.56	35.04	204	233	950	3.444
R42.16X4.85-316-A999			SCH 80	4.85	32.46	285	327	1339	4.536
R42.16X6.35-316-A999			SCH 160	6.35	29.46	384	443	1826	5.700
R48.26X2.77-316-A999	1 1/2"	48.26	SCH 10	2.77	42.72	135	154	627	3.158
R48.26X3.68-316-A999			SCH 40	3.68	40.90	183	209	850	4.112
R48.26X5.08-316-A999			SCH 80	5.08	38.10	258	296	1212	5.498
R48.26X7.14-316-A999			SCH 160	7.14	33.98	377	434	1788	7.359
R60.33X2.77-316-A999	2"	60.33	SCH 10	2.77	54.76	107	122	496	3.990
R60.33X3.91-316-A999			SCH 40	3.91	52.48	154	176	714	5.521
R60.33X5.54-316-A999			SCH 80	5.54	49.22	223	255	1041	7.596
R60.33X8.74-316-A999			SCH 160	8.74	42.82	368	424	1745	11.284
R73.03X3.05-316-A999	2 1/2"	73.03	SCH 10	3.05	66.90	97	111	449	5.342
R73.03X5.16-316-A999			SCH 40	5.16	62.68	168	192	783	8.765
R73.03X7.01-316-A999			SCH 80	7.01	58.98	234	268	1094	11.583
R73.03X9.53-316-A999			SCH 160	9.53	53.94	327	376	1546	15.146
R88.90X3.05-316	3"	88.90	SCH 10	3.05	82.80	79	90	366	6.557
R88.90X5.49-316-A999			SCH 40	5.49	77.92	146	167	678	11.466
R88.90X7.62-316-A999			SCH 80	7.62	73.56	207	237	966	15.509
R88.90X11.13-316-A999			SCH 160	11.13	66.64	312	359	1474	21.674
R114.30X3.05-316	4"	114.30	SCH 10	3.05	108.20	61	70	282	8.496
R114.30X6.02-316-A999			SCH 40	6.02	102.16	124	141	573	16.322
R114.30X8.56-316-A999			SCH 80	8.56	97.18	179	205	834	22.665
R114.30X13.49-316-A999			SCH 160	13.49	87.32	293	336	1378	34.053
R141.30X6.55-316-A999	5"	141.30	SCH 40	6.55	128.20	108	123	501	22.101
R141.30X9.53-316-A999			SCH 80	9.53	122.24	160	183	745	31.444
R141.30X15.88-316-A999			SCH 160	15.88	109.54	277	318	1304	49.871
R168.28X3.40-316	6"	168.28	SCH 10	3.40	161.48	46	53	212	14.039
R168.28X7.11-316-A999			SCH 40	7.11	154.08	98	112	454	28.697
R168.28X18.26-316-A999			SCH 160	18.26	131.78	267	306	1254	68.603
R219.08X8.18-316	8"	219.08	SCH 40	8.18	202.74	87	99	399	43.202
R219.08X23.01-316-A999			SCH 160	23.01	173.08	258	296	1209	112.981

Other sizes on request

Temperature conversion table

Celsius to Fahrenheit

°C	°F
150	302
145	293
140	284
135	275
130	266
125	257
120	248
115	239
110	230
105	221
100	212
95	203
90	194
85	185
80	176
75	167
70	158
65	149
60	140
55	131
50	122
45	113
40	104
35	95
30	86
25	77
20	68
15	59
10	50
5	41
0	32
-5	23
-10	14
-15	5
-20	-4
-25	-13
-30	-22
-35	-31
-40	-40
-45	-49
-50	-58

Fahrenheit to Celsius

°F	°C
340	171
330	166
320	160
310	154
300	149
290	143
280	138
270	132
260	127
250	121
240	116
230	110
220	104
210	99
200	93
190	88
180	82
170	77
160	71
150	66
140	60
130	54
120	49
110	43
100	38
90	32
80	27
70	21
60	16
50	10
40	4
30	-1
20	-7
10	-12
0	-18
-10	-23
-20	-29
-30	-34
-40	-40
-50	-46
-60	-51

Pressure conversion table

bar to psi

bar	psi
1000	14505
800	11604
600	8703
500	7253
400	5802
250	3626
160	2321
100	1451
60	870
40	580
35	508
25	363
16	232
10	145
6	87
4	58
2.5	36
1.6	23
1	15

psi to bar

psi	bar
10000	689
9000	620
7000	483
6000	414
4000	276
3000	207
2500	172
1000	69
900	62
600	41
500	34
400	28
250	17
150	10.3
100	6.9
90	6.2
60	4.1
40	2.8
25	1.7
10	0.7

Examples

Temperature conversion

Initial value: 100
°C in °F: 212 °F
°F in °C: 37.78 °C

Pressure conversion

Initial value: 35
bar in psi: 507.675 psi
psi in bar: 2.41296 bar