

Distributed by:

NELSON JAMESON
INC.

800-826-8302 nelsonjameson.com



Close at hand

Tubes and fittings for Hygienic Fluid Handling Equipment,
December 2023



Everything at your fingertips

Tackle the challenges you face with innovative Alfa Laval solutions for hygienic applications. Regularly updated, this convenient online catalogue gives you fast access to our comprehensive product range.

Sustainability is at the core of Alfa Laval technologies. These hygienic components and equipment can help you reduce emissions, contamination risks, energy and water use, and total cost of ownership. They also increase uptime, safety and product integrity.

Wherever you are, you have fast access to the components, equipment and expertise you need through the Alfa Laval global network of more than 1500 partners, supported by our sales companies worldwide. Using our [eBusiness portal](#), our channel partners can locate the products you need, order equipment, or track shipments in real time.

To make your life easier, take advantage of Alfa Laval tools and resources. Simply click on the sales item number to view or download 3D CAD models and 2D drawings from our [CAD portal](#). Or download product documentation, including Q-doc documentation for our UltraPure portfolio, [here](#).

Discover a world of hygienic solutions.

www.alfalaval.com

Pumps

Centrifugal pumps



LKH



LKH UltraPure



LKH Evap



LKH-HPF



LKH Multistage

Valves

Double seat valves



Aseptic Mixproof



Unique Mixproof



Unique Mixproof 3-body



Unique Mixproof CP-3



Unique Mixproof UltraPure



Unique Mixproof Large Particle

Diaphragm valves



Unique DV-ST UltraPure



DV-ST Multiport

Ball valves



SBV Sanitary

Shutter valves



Koltek Valves

Regulating valves



Unique RV-ST



Unique RV-P

Heat transfer

Gasketed plate heat exchangers



Hygienic line



FrontLine



BaseLine



Industrial line

Tank equipment

Tank cleaning machines



SaniJet 25 UltraPure



SaniJet 20 UltraPure



TJ40G



TJ 20G



GJ PF FT



GJ A6



GJ 9



MultiJet 25



MultiJet 45

Agitators



ALS and ALS-SB



ALB



ALT



ALTB

Mixers



Hybrid Powder Mixer



Rotary Jet Mixer



LeviMag®



LeviMag® UltraPure

Installation material

Hygienic tubes and fittings



Flanges, clamps and unions



Bends, tees and reducers



Tubes and tube support

UltraPure tubes and fittings



UltraPure tubes and fittings

Filters and strainers



Strainers

Rotary lobe pumps



LKH Prime



LKH Prime UltraPure



SolidC



OptiLobe



SRU

Double seal valves

Single seat valves



Unique Mixproof PMO Curd



Unique Mixproof Tank Outlet



Unique Mixproof Horizontal Tank



SMP-BC



SMP-BC 22



Unique SSV



Unique SSV Change-over



Unique SSV FDV

Control/Check valves

Safety valves



CPM-2



LKC-2 Non-Return



LKC UltraPure



Unique Vacuum Breaker



LKUV-2 Air-Relief



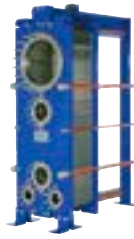
Safety Valve



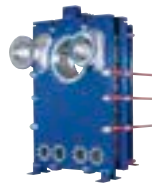
SB Anti Vacuum House



TS-series



AlfaCond



AlfaVap

Fusion-bonded plate heat exchangers

Brazed plate heat exchangers



AlfaNova



Brazed PHE



GJ 4



SaniMicro



SaniMidget



SaniMagnum



SaniMidget SB



SaniMagnum SB



SaniMega SB

Static spray balls



LKRK Static Spray Ball

Wall mounted cleaning nozzles



PlusClean®/PlusClean® UltraPure

Tank covers

Tank accessories



LKDC-LP



Type R



LKD



Type CG



Type C



Sight glasses



Tank feet

Membranes and filters

Membranes

Auxiliary membrane equipment



Spiral membranes



Plate and frame module



Flat sheet membranes



Test units



Housing



ATD Couplers



Safety filters

Circumferential piston pumps



SX



SX UltraPure



DuraCirc



DuraCirc Aseptic



Twin Screw

Twin screw pumps



Unique SSV Aseptic



SSV Tangential



Unique SSV Tank Outlet



Unique SSV Manual



Unique SSSV Small Single Seat



LKB



LKB-F



LKB UltraPure

Butterfly valves

Sampling valves



SB Anti Vacuum Valve



SB Pressure Relief Valve



Unique Sampling Valve



SB Membrane Sample Valve



SB Micro Sample Port



SB Micro Sample Port Type M

Welded spiral heat exchangers



Spiral Heat Exchangers

Welded plate and block heat exchangers



Combabloc Free Flow

Scraped surface heat exchangers



Contherm

Tubular heat exchangers



Pharma-line S and P



Pharma-line Point of Use

Automation

Sensing and control



ThinkTop V70



ThinkTop V50



ThinkTop D30



ThinkTop Basic Intrinsically Safe



IndiTop



Unique Control LKB

Condition monitoring

Cleaning validation



CM Connect



CM



Rotacheck

Service and spare parts

Service tools



Service kits



Service tools valves



Service tools mixing and blending



Service tools tank cleaning



Service tools pumps

Alfa Laval Stainless Steel and Rubber Materials

Technical Information

Stainless Steel

Our stainless steel material have the following demands to the contents of the most essential alloys:

Descriptions	Standard	Chrome Cr%	Nickel Ni%	Molybdenum Mo%	Carbon C%
AISI 304	ASTM A270	18.0-20.0	8.0-10.5	0.0	≤ 0.08
AISI 304L	ASTM A270	18.0-20.0	8.0-12.0	0.0	≤ 0.03
AISI 316L	ASTM A270	16.0-18.0	10.0-14.0	2.0-3.0	≤ 0.03
1.4301 (304)	EN 10088-1 (X 5CrNi18-10)	17.0-19.5	8.0-10.5	0.0	≤ 0.07
1.4307 (304L)	EN 10088-1 (X 2CrNi18-9)	17.5-19.5	8.0-10.0	0.0	≤ 0.03
1.4401 (316)	EN 10088-1 (X 5CrNiMo17-12-2)	16.5-18.5	10.0-13.0	2.0-2.5	≤ 0.07
1.4404 (316L)	EN 10088-1 (X 2CrNiMo17-12-2)	16.5-18.5	10.0-13.0	2.0-2.5	≤ 0.03
1.4435 (316L)	EN 10088-1 (X 2CrNiMo18-14-3)	17.0-19.0	12.5-15.0	2.5-3.0	≤ 0.03
1.4571 (316Ti)	EN 10088-1 (X6CrNiMoTi17-12-2)	16.5-18.5	10.5-13.5	2.0-2.5	≤ 0.08

Rubber Materials

In order to obtain the longest possible lifetime for rubber seals it is essential to choose the right quality for the actual duty. Consequently when choosing rubber quality, the characteristics of the different rubber types should be considered. All product wetted rubber material are in conformity of FDA.

EPDM Rubber (Ethylene Propylene)

EPDM rubber is widely used within the food industry as it is resistant to most products used in this sector. Another advantage is that it may be used to a recommend max. temperatures of 140°C (244°F). However, there is one essential limitation, EPDM is not resistant to organic and non-organic oils and fats.

Acrylonitrile Butadiene Rubber, NBR

NBR is the rubber type most frequently used for technical purposes. It is quite resistant to most hydrocarbons, e.g oil, grease and fat. It is sufficiently resistant to diluted lye and nitric acid and may be used to a recommended max. 95°C (203°F). As NBR is attacked by ozone it may not be exposed to ultraviolet rays and should thus consequently be stored so that this is avoided.

Silicone rubber, Q

The most significant quality of silicone rubber is that it can be applied from temperatures below -50°C (-58°F) to approx. + 180°C (356°F) and still keep its elasticity. The chemical resistance is satisfactory to most products. However, undiluted lye and acids as well as hot water and steam may destroy silicone rubber. The resistance to ozone is good.

Fluorine rubber, FPM

FPM is often used when other rubber types are unsuited, especially at high temperatures up to approx. 180°C (356°F). The chemical resistance is good to most products, however hot water, steam, lye, acid and alcohol should be avoided. The resistance to ozone is good.

Hydrogenated acrylonitrileButadiene Rubber, HNBR

Mechanically strong and normally resistant to ozone and strong oxidizers, animal and vegetable fats, nonpolar solvents, oils and lubricants, water and aqueous solutions. The recommend max. temperature is 130°C (266°F).

Perfluoroalkoxy polymer, PFA

PFA is very similar to PTFE, but opposite to those PFA is thermo plastic and has minimal porosity. PFA has a very high mechanical strength which makes it a perfect choice when dealing with abrasive products. The PFA seal offers longer service intervals. The recommended max. temperature for the PFA seal is 90°C (194°F).

Product and chemical resistance of flexible rubber materials

The information below is intended as an aid in selecting the best rubber quality for an actual application. It is not possible to state any general lifetime of rubber seals as many factors influence it: chemical attack, temperature, mechanical wear etc. Extreme temperatures, even within the generally accepted limits, may worsen other kinds of attack and thus reduce the lifetime.

Ratings

1 = Unsuitable.

2 = Limited suitability.

3 = Normal suitability.

4 = High suitability.

- = Not recommended for other reasons.

The table contains data which have been compiled from the results of our own tests and the recommendations of our raw material suppliers. The data should be considered as recommendations only and will be brought up-to-date from time to time. They are based on constant contact with the specified product.

In case of doubt or lack of information it would be advisable to consult us directly, which will enable us to investigate specific applications.

Product or process	NBR ¹⁾	HNBR ²⁾	EPDM ³⁾	Q ⁴⁾	FPM ⁵⁾	PTFE ⁶⁾
Dairy products (milk, cream)	3	3-4	3-4	3-4	-	3-4
Dairy products (sour milk products)	3	3-4	3-4	3-4	-	3-4
Brewery products (beer, hops etc.)	3	3-4	3-4	1-2	2-3	3-4
Wine and yeast	3	3-4	4	4	2-3	3-4
Animal and vegetable fats: 100°C	3	4	1-2	3	4	3-4
Water and water solutions < 70°C	3	4	4	3	2-4	3-4
Hot water and steam < 130°C	1	4	4	2	-	3-4
Concentrated fruit juices and etheral oils < 100°C	1	-	1	1	3	3-4
Non-oxydising acids < 80°C	1-2	2	3	1-2	2	3-4
Oxydising acids < 80°C	-	2	3	1	2	3-4
Weak concentrate of lye < 100°C	2	3-4	4	2	2	3-4
Strong concentrate of lye < 100°C	1	2-3	3	1	1	3-4
Mineral oils < 110°C	3	4	-	-	4	3-4
Aliphatic carburetted hydrogen (hexane)	3	3	1	1	4	3-4
Aromatic carburetted hydrogen (benzole)	1	2	1	1	3	3-4
Alcohols	1-3	2-3	2-3	3-4	3-4	3-4
Ester and ketones	1-2	1-2	1-2	1-2	3-4	3-4
Ether	1	2	1	1-3	3-4	3-4
Methylene chloride	1	2	1	2-3	3-4	3-4
Ozone and atmospheric conditions	1-2	3	4	4	3-4	3-4

International designation of flexible rubber materials according to ISO R 1629.

ISO = International standard.

Notes

	Designation of flexible rubber materials	Abbreviation symbol
1)	Nitrile rubber	N
2)	Hydrogenated acrylonitrile rubber	H
3)	Ethylene propylene rubber	E
4)	Silicone rubber	Q
5)	Fluorinated rubber	F
6)	Polytetraflour ethylene	

Compliance and certification

We can provide documented and certified compliance with a broad spectrum of relevant international and local hygiene standards, worldwide. This helps you significantly reduce the engineering costs of setting up and operating standard-compliant processing plants around the world.

Please find below some examples of regulations, standards, and guidelines applicable to our products used in hygienic applications.

More information can be found in Instruction Manuals on alfalaval.com page.

For special requests please contact your local Alfa Laval organization.



Authorized to carry the 3A symbol

The mission of 3-A SSI is to enhance product safety for consumers of food, beverages, and pharmaceutical products through the development and use of 3-A Sanitary Standards and 3-A Accepted Practices. The 3-A symbol is a registered mark used to identify equipment that meets 3-A Sanitary Standards for design and fabrication.



ATEX-directive is the popular name for the European Directive 2014/34/EU setting the rules for equipment and protective systems intended for use in potentially explosive atmospheres.

Compliance to the Regulation (EC) No. 1935/2004.



The framework regulation (EC) No. 1935/2004 regulates food contact materials and articles within EU. It includes several requirements for materials and articles intended to come into contact with food to ensure material safety. The glass and fork symbol may be used to indicate that the relevant requirements stated in (EC) No. 1935/2004 are met.



CE marking is a mandatory conformity mark for products placed on the market in the European Economic Area (EEA). With the CE marking on a product the manufacturer ensures that the product conforms with the essential requirements of the applicable EC directives. The letters "CE" stand for "Conformité Européenne" ("European Conformity").



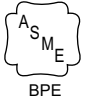
UKCA marking is a mandatory conformity mark for products placed on the market in Great Britain (England, Scotland, and Wales). With the UKCA marking the manufacturer ensures that the product conforms with the relevant requirements of the applicable legislations.



Within United States, requirements for food contact materials and articles are specified by the Food and Drug Administration (FDA) and are regulated under the Code of Federal Regulations, Title 21 "Food and drugs", Parts 170-199 "Food for human consumption".

**USP Class VI /
ISO 10993**

The United States Pharmacopeia (USP) standards, chapter 87 and 88, and International Organization for Standardization (ISO) standard 10993, sections 5, 6, 10 and 11, specifies requirements to ensure biocompatibility of product contact parts intended to be used in pharma applications.



The American Society of Mechanical Engineers Bioprocessing Equipment (ASME BPE) is the Bioprocess Equipment group of the ASME that provides engineers and quality control professionals a measurable way to specify and purchase equipment for the Biotechnology, Pharmaceutical and Personal Care Products industries.

Alfa Laval Tubes and Fittings

Introduction

Alfa Laval is your complete source for specialized fittings and tubing required in food, dairy, beverage, personal care, biotechnology and pharmaceutical process applications. Smooth, crevice-free interiors and secure, self-aligning joints are characteristic for Alfa Laval Fittings. Each offers superior corrosion-resistance and unmatched service life. Alfa Laval fittings are designed and manufactured to ensure dimensional accuracy and structural integrity, making them easy to install. Tubing is manufactured to Alfa Laval's stringent specifications, making it a perfect match for the weld fittings. Choose from a wide range of tube sizes, surface finishes and connect options. All products are labelled with a bar code, product information and manufacturing date. This provides the optimum identification and ensures that the product arrives to the job site in a clean orbital weld condition. The Alfa Laval tubes and fittings are divided into two product ranges, Hygienic and UltraPure. The Hygienic range is suitable for most standard duties and the UltraPure range is suitable for duties with extra high demands on hygiene and cleanability.

Hygienic range tubes and fittings

The Hygienic product range offers a wide range of tubes and fittings with an internal surface finish from $Ra < 1.6 \mu\text{m}$. The Hygienic range has tubes and fittings according to EN10357-A (DIN 11850), ISO 2037 and BS 4825. Tri-Clover Tri-Clamp® and Tri-Weld® Fittings are part of Alfa Laval's product line produced according to ASME BPE dimension standards. Tubing is manufactured to Alfa Laval's stringent specifications, making it a perfect match for the Weld Fittings. Choose from a complete range of tube sizes and connection options. The internal surface finish is $Ra < 0.8 \mu\text{m}$. All product wetted stainless steel items in the Hygienic range are delivered with 3.1. certificate in accordance with EN 10204.

UltraPure range tubes and fittings

Alfa Laval is proud to present the line of Fittings designed for use in the Pharmaceutical and Bio-Technologies Industries. This line consists of Tri-Clover® parts with either Tri-Weld® ends suitable for use with Orbital Welding Equipment or self-aligning Tri-Clamp® end connections. Alfa Laval offers a full line of UltraPure Fittings that are manufactured in compliance with the



current ASME BPE Standard. All BPE items are individually capped and bagged. All products are labelled with a bar code, product information and manufacturing date. This provides the optimum identification and ensures that the product arrives to the job site in a clean orbital weld condition. The UltraPure product range offers an internal surface finish from $Ra < 0.8 \mu\text{m}$, either electro polished or mechanically polished. All product wetted stainless steel items in the UltraPure range are delivered with MTR (Mill Test Report) or with 3.1. certificate in accordance with EN 10204. The UltraPure range is manufactured under extra strict and thorough quality control methods. Wall thickness integrity is maintained by fabrication grade minimum wall tubing for all cold-formed tubular products. After cold forming, our tube product is resized to ensure that the ovality falls within the prescribed tolerances. End facing is provided with a machined square-cut method. This allows for the most accurate and consistent orbital weld result. All fittings are put through 100% visual inspection and ovality and squareness tolerances are inspected with calibrated equipment. Surface finish is inspected

with a calibrated profilometer to ensure the Roughness average (Ra) maximum is not exceeded.

TECHNICAL DATA

Alfa Laval offers a range of Mechanical Polish as well as Electropolish finishes. Mechanical polishing is achieved by using a progressive series of abrasives, from low to high grit. This allows a consistent internal finish and both optimal and economical cleaning. Electropolishing is a further process that promotes a chromium-enriched surface layer that maximizes corrosion resistance as well as minimizing bacterial build up on surface cavities. Metallurgy - Incoming raw material goes through a stringent inspection process to ensure its chemistry will be ideal for both weldability and electropolishing Quality Control Methods - Our manufacturing facilities operate under an approved ISO 9001 quality standard. Wall thickness integrity is maintained with fabrication grade minimum wall tubing for all cold-formed tubular products. Our BPE fittings are designed for use with all current orbital welding equipment. After cold forming, our tube product is resized to ensure that the ovality falls within the prescribed BPE tolerances. End facing is provided with a machined square-cut method. This allows for the most accurate and consistent orbital weld result. All fittings are put through 100% visual inspection and ovality and squareness tolerances are inspected with calibrated equipment. Surface finish is inspected with a calibrated profilometer to ensure the Roughness average (Ra) maximum is not exceeded. Hygienic fittings identified with this symbol on the following pages are accepted as meeting the 3A Hygienic standards by the appropriate committees of the International Association of Milk, Food and Environmental Sanitarians, U.S. Public Health Service, and Dairy Industry Committee.

Surface specification for Alfa Laval Hygienic range

Hygienic tubes

Alfa Laval designation	Surface texture (Ra µm)			Standard designation	According to	Treatment	Dimension ranges			
	Internal Surface	Welded area	External				EN 10357-A	ISO 2037	BS 4825	Tri-Clover® Hygienic
BC	< 0.8	< 1.6	pickled	BC	EN 10357-A	Annealed	X	X	X	
BD	< 0.8	< 1.6	< 1.0	BD	EN 10357-A	Annealed	X	X	X	
CC	< 0.8	< 1.6	pickled	CC	EN 10357-A	Not annealed	X			
CD	< 0.8	< 1.6	< 1.0	CD	EN 10357-A	Not annealed	X			
Tri-Clover® Hygienic	< 0.8	< 0.8	< 0.8	No. 4 ¹	3A	Annealed				X

¹ According to 3A 33-01 section D1

Hygienic Fittings

Product	Surface designation		Dimension ranges			
	Internal	External	DIN	ISO	BS	Tri-Clover® Hygienic
Unions	Mat	Mat	X			
	Semi bright	Semi bright	X	X	X	
	Mirror	Mirror				
	3A	3A				X
Bends	Mat	Mat	X			
	Raw	Raw			X	
	Raw	Semi bright	X			
	Raw	Polished	X	X		
	Semi bright	Semi bright		X		
	Polished	Polished			X	
	Mirror	Mirror				
Tees	3A	3A				X
	Mat	Mat	X			
	Raw	Raw			X	
	Polished	Polished	X	X	X	
Reducers	Mirror	Mirror				
	3A	3A				X
	Mat	Mat	X			
	Raw	Semi bright	X			
	Raw	Polished		X	X	
	Semi bright	Semi bright		X		
	3A	3A				X

Explanation of surface designation for fittings

Alfa Laval designation	Surface texture (Ra μm)		Method
	Internal	Banded area	
Mat	< 1.6	Not spec.	Shot Blasted
Raw	< 0.8 ¹	Not spec.	As fabricated or tumbled
Semi bright	< 0.8	Not spec.	As fabricated or tumbled
Polished	< 0.8	Not spec.	Mechanically polished
Mirror	< 0.8	Not spec.	Mechanically polished and buffed for a shiny surface
3A	< 0.8	< 0.8	Mechanically polished or as fabricated

¹ Not guaranteed in welds

Surface specification for Alfa Laval Tri-Clover® UltraPure range

UltraPure tubes and fittings

Alfa Laval designation	Surface texture (Ra μm)			Standard designation		According to	Treatment	Tri-Clover® UltraPure ASME-BPE
	Internal	Welded / Banded area	External	Tubular	Machined			
PL	< 0.5	< 0.5	< 0.8	SF1	SF1	ASME BPE	Annealed	X
PM	< 0.38 EP ¹	< 0.38 EP ¹	< 0.8	SF4	SF4	ASME BPE	Annealed	X

¹ Electro polished

Conversion table - Surface finish

Correlation between Grit and Ra values

Ra (μm)	Ra (μinch)	US Grit	UK Grit
3	125		120
2	85		180
1.65	70	80	
1.5	50		240
0.75	30		320
0.62	25	180	
0.45	18	240	
0.40	15		500
0.25	10	320	

Material specification for Alfa Laval Hygienic range

Wetted steel parts

Material	Dimension ranges			
	EN 10357-A	ISO 2037	BS 4825	Tri-Clover® Hygienic
1.4301 ¹ (304)	X	X		
1.4307 ¹ (304L)	X	X	X	
1.4401 ¹ (316)			2	
1.4404 ¹ (316L)	X	X	X	
304 ³				X
316L ³				X

¹ According to DIN EN 10088-1

² Reducing tees are only available in 1.4401 (316)

³ According to ASTM A 269 and A 270

Seal ring material for clamp fittings

Material	Dimension ranges			
	EN 10357-A	ISO 2037	BS 4825	Tri-Clover® Hygienic
NBR	X	X	X	
Nitrile (Buna-N)				X
White Nitrile (White Buna-N)				X
EPDM	X	X	X	X
FPM	X	X	X	

Material	Dimension ranges			
	EN 10357-A	ISO 2037	BS 4825	Tri-Clover® Hygienic
Viton®				X
PTFE	X	X	X	X
Silicone (Q)	X	X		X

Material specification for Alfa Laval Tri-Clover® UltraPure range

Wetted steel parts

Material	Dimension ranges
	Tri-Clover® UltraPure ASME-BPE
316L ¹	X

¹ According to ASTM A 269 and A 270 S2. All Tri-Clover® UltraPure ASME BPE weld ends are also according to ASME BPE sulphur content 0.005-0.017%

Gasket material in fittings

Material	Dimension ranges
	Tri-Clover® UltraPure ASME-BPE
Nitrile (Buna-N)	X
White Nitrile (White Buna-N)	X
EPDM	X ¹
FPM	
Viton®	X ¹
White Viton®	X
PTFE	X
Silicone (Q)	X ¹

¹ EPDM, Viton and Silicone available with USP Class 6 certificate - please request by order

Chemical composition table

Material Grade		C	Si	Mn	Chemical composition in % by mass					
Material Number	Standard				P	S	N	Cr	Ni	Mo
1.4404	DIN-EN 10088-1	≤ 0.030	≤ 1.000	≤ 2.00	0.045	≤ 0.015	≤ 0.11	16.50 - 18.50	10.00 - 13.00	2.00 - 2.50
316L	ASTM A 269	≤ 0.035	≤ 0.750	≤ 2.00	0.040	≤ 0.030		16.00 - 18.00	10.00 - 15.00	2.00 - 3.00
316L ¹	ASTM BPE / ASTM A 270 S-2	≤ 0.035	≤ 0.075	≤ 2.00	0.040	0.005 - 0.017		16.00 - 18.00	10.00 - 10.00	2.00 - 3.00

¹ According to ASTM A 269 and A 270 S2. All Tri-Clover® UltraPure ASME BPE weld ends are also according to ASME BPE sulphur content 0.005-0.017%

Pressure ratings (bar) for Alfa Laval Hygienic range

Material	Dimension ranges			
	DIN	SMS / ISO 2037	BS 4825	Tri-Clover® Hygienic
Tubes (20 °C)	39/355	39/355	56-467 ¹	56-351 ¹
Bends, Tees, Reducers (80 / 200 °C)	40/16	40/16	25/15	25/15
Nut unions (80 / 200 °C)	40/16	40/16	25/15	
Flange unions (80 / 200 °C)	25/16	25/16	25/15	

¹ Tube pressure ratings depending on size (larger diameter smaller pressure rating)

Pressure ratings (bar) of Tri-Clamp® Connections

Service rating ¹ (bar) of Tri-Clamp® Connections							
Size Tube OD	1/2 & 3/4 inch	1 & 1 1/2 inch	2 inch	2 1/2 inch	3 inch	4 inch	6 inch
13MHHM	(Wing nut tightened to 2.8 Nm of torque)						
at 20 °C	--	34.5	31.0	27.6	24.1	20.7	10.3
at 120 °C	--	20.7	20.7	13.8	13.4	10.3	5.2
13MHHS	(Wing nut tightened to 2.8 Nm of torque)						
at 20 °C	151.7	41.4	37.9	31.0	24.1	20.7	--

¹ Service ratings are based on hydrostatic tests using standard-molded Buna-N material gaskets, with proper installation of ferrules, assembly of joints and absence of shock pressure. All ratings shown are dependent upon related components within the systems and proper installation. For temperatures above at 120 °C, we recommend using only 13MHP clamps.

Service rating ¹ (bar) of Tri-Clamp® Connections							
Size Tube OD	1/2 & 3/4 inch	1 & 1 1/2 inch	2 inch	2 1/2 inch	3 inch	4 inch	6 inch
13MHMM	(Wing nut tightened to 2.8 Nm of torque)						
at 120 °C	82.7	20.7	19.0	15.5	12.1	10.3	--
A13MHP	Bolts tightened to 27 Nm of torque						
at 20 °C	--	103	68.9	68.9	68.9	55.1	20.7
at 120 °C	--	82.7	55.2	55.2	55.2	41.4	13.8
A13MHM	(Wing nut tightened to 2.8 Nm of torque)						
at 20 °C	--	34.5	31	27.6	24.1	20.7	10.3
at 120 °C	--	20.7	17.2	13.8	12.1	10.3	5.2

¹ Service ratings are based on hydrostatic tests using standard-molded Buna-N material gaskets, with proper installation of ferrules, assembly of joints and absence of shock pressure. All ratings shown are dependent upon related components within the systems and proper installation. For temperatures above at 120 °C, we recommend using only 13MHP clamps.

Service Rating of Tri-Clamp® Connections

Service rating ¹ (PSI) of Tri-Clamp® Connections							
Size Tube OD	1/2 & 3/4 inch	1 & 1 1/2 inch	2 inch	2 1/2 inch	3 inch	4 inch	6 inch
13MHMM	(Wing nut tightened to 25 in. lb. of torque)						
at 70 °F	--	500	450	400	350	300	150
at 250 °F	--	300	300	200	195	150	75
13MHHS	(Wing nut tightened to 25 in. lb. of torque)						
at 70 °F	2200	600	550	450	350	300	--
at 250 °F	1200	300	275	225	175	150	--
A13MHP	(Bolts tightened to 24 in. lb. of torque)						
at 70 °F	--	1500	1000	1000	1000	800	300
at 250 °F	--	1200	800	800	800	600	200
A13MHM	(Bolts tightened to 20 ft. lb. of torque)						
at 70 °F	--	500	450	400	350	300	150
at 250 °F	--	300	250	200	175	150	75

¹ Service ratings are based on hydrostatic tests using standard-molded Buna-N material gaskets, with proper installation of ferrules, assembly of joints and absence of shock pressure. Contact Tri-Clover® for ratings at higher temperatures. All ratings shown are dependent upon related components within the systems and proper installation. For temperatures above 250 °F, we recommend using only 13MHP clamps. This information is only valid if Tri-Clover® clamps, ferrules, and gaskets are used.

Tri-Clamp® Gasket Materials

Characteristic		Buna-N (U)	EPDM (E)	Fluoro-elastomer (SFY)	Silicone (X)	PTFE (G)
Original Physical Properties	Hardness, Shore A	70	70	70	70	---
	Tensile Strength, PSI	1875	1650	1212	1340	---
	Elongation, %	340	317	272	260	---
Temperature Range		-65 to 200 °F	-60 to 300 °F	-20 to 350 °F	-40 to 400 °F	-40 to 200 °F ¹
Resistance	Acid Resistance	Good	Good to Excel	Good to Excel	Poor to Good	Good to Excel
	Alkali Resistance	Fair to Good	Good to Excel	Poor to Good	Poor to Fair	Excellent
	Resistance to Fats/Oils	Good to Excel	Poor	Good to Excel	Poor to Good	Excellent
	Abrasion Resistance	Excellent	Good	Good to Excel	Poor	Fair
	Compression Set Resistance	Good	Fair	Good to Excel	Good to Excel	Cold Flows

¹ Note: PTFE materials tendency to "cold flow" and incompressibility, limit its max. temperature to 200 °F due to possible leaking problems.

Basic Dimensions of Tri-Clamp®

Connection for Hygienic OD-Tubing			
OD Outer Diameter (inch)	ID Inner Diameter (inch)	Wall Thickness (inch/gauge)	A Ferrule Face (inch)
1/2	0.37	0.065 / 16 ga.	0.984
3/4	0.62	0.065 / 16 ga.	0.984
1	0.87	0.065 / 16 ga.	1.984
1 1/2	1.37	0.065 / 16 ga.	1.984
2	1.87	0.065 / 16 ga.	2.516
2 1/2	2.37	0.065 / 16 ga.	3.047
3	2.87	0.065 / 16 ga.	3.579
4	3.87	0.083 / 14 ga.	4.682

Hygienic Tube Information

Tube OD	Tube ID	Wall Thickness	Volume	Weight Dry	Weight with Water	Flow (GPM) at a Mean Velocity		
inch	inch	inch	Gal/100 ft	lbs/100 ft	lbs/100 ft	5 fps	7 fps	10 fps
½	0.37	0.065	0.56	30.6	35.3	1.7	2.3	3.4
¾	0.62	0.065	1.57	48.2	61.3	4.7	6.6	9.4
1	0.87	0.065	3.09	65.8	91.5	9.3	13	19
1½	1.37	0.065	7.66	100.9	164.8	23	32	46
2	1.87	0.065	14.27	136.1	255.1	43	60	86
2½	2.37	0.065	22.92	171.2	362.4	69	96	138
3	2.87	0.065	33.6	206.4	486.7	101	141	202
4	3.834	0.083	59.97	351.8	851.9	180	252	360
6	5.782	0.109	136.39	694.7	1832.2	409	573	818
8	7.782	0.109	247.07	930.6	2991.1	741	1038	1482

Technical Information

Pipe Schedule and Chemical Composition

Schedule 5 Pipe

Size	OD inch	ID inch	Wall Thickness
⅛	0.405	0.335	0.035
¼	0.540	0.442	0.049
⅜	0.675	0.577	0.049
½	0.840	0.710	0.065
¾	1.500	0.920	0.065
1	1.315	1.185	0.065
1¼	1.660	1.530	0.065
1½	1.900	1.770	0.065
2	2.375	2.245	0.065
2½	2.875	2.790	0.083
3	3.500	3.334	0.083
3½	4.000	3.834	0.083
4	4.500	4.334	0.083
5	5.563	5.345	0.109
6	6.625	6.407	0.109
8	8.625	8.407	0.109

Chemical Composition %

	304	316L
C	0.080	0.030
MN	2.000	2.000
P	0.045	0.045
S	0.030	0.030 ¹
Si	1.000	1.000
Cr	18.0-20.0	16.0-18.0
Ni	8.0-13.0	10.0-14.0
Mo	-	2.0-3.0

¹ The sulfur content for 316L ASME BPE fittings is 0.005-0.017% for all weld ends

Material Test Reports (MTRs)

Easy Online Access to Comprehensive Fittings Information



A 5-alpha character serial ID is marked on to each new 316SS fitting

As one of the most comprehensive and technologically advanced reports in the market, our new Material Test Reports (MTRs) provide detailed information that takes traceability and validation to a new level. Alfa Laval has established a new standard as all MTRs are available 24 hours a day, 7 days a week online at www.alfalaval.us.

Simply type a 5-alpha character code (e.g. AAABC) called the serial ID, which you can find stenciled on each new 316SS fitting, to access the following information:

- All heat certification numbers used to manufacture the fitting
- Date the fitting was manufactured
- The fitting's part number and description
- View and print any MTR and the above information

Connection Types

Clamp Fittings



Authorized to carry
the 3A symbol



Authorized to carry
the 3A symbol

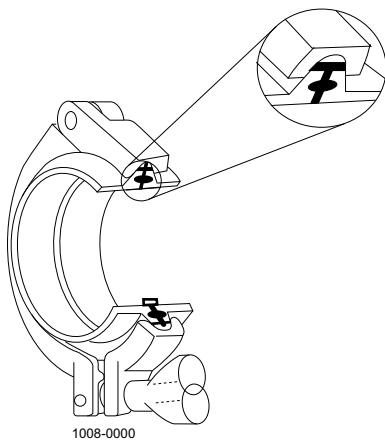


Figure 1. Tri-Clamp

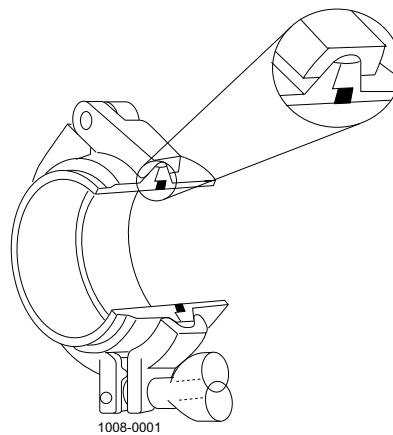


Figure 2. H-Line

A connection is made up of a plain ferrule, a clamp, and a gasket. Tees, elbows and reducers are available with Tri-Clamp connections. All three styles are in compliance with 3A standards for C.I.P. (clean in place). The three types of clamp fittings are designed for use in Food, Dairy, Pharmaceutical and Chemical Industries.

- Tri-Clamp connections are the industry standard, having nueter-style ferrules to simplify design and installation.
- H-Line male/female ferrules self-align during tightening so joints are quick and easy to assemble or take apart.

Loss of head pressure due to friction. Loss is shown in feet of head. Loss through tubing is for 1ft of tube

Capacity in U.S. G.P.M.	1" O.D.			1½" O.D.			2" O.D.			2½" O.D.			3" O.D.			4" O.D.		
	Tubing I.D.	Elbow	Tee	Tubing I.D.	Elbow	Tee	Tubing I.D.	Elbow	Tee	Tubing I.D.	Elbow	Tee	Tubing I.D.	Elbow	Tee	Tubing I.D.	Elbow	Tee
2	0.01	0.01	0.1															
4	0.025	0.02	0.2															
5	0.035	0.025	0.25															
10	0.12	0.06	0.4	0.02	0.01	0.15	0.005	0.015	0.1									
15	0.25	0.1	0.8	0.04	0.02	0.25	0.013	0.02	0.15									
20	0.43	0.22	1.5	0.06	0.03	0.3	0.02	0.025	0.2	0.005	0.02	0.1	0.003	0.02	0.06			
25	0.66	0.4	2.3	0.08	0.04	0.4	0.025	0.03	0.25	0.006	0.03	0.15	0.004	0.03	0.08			
30	0.93	0.7	3.3	0.105	0.06	0.55	0.035	0.05	0.3	0.008	0.05	0.2	0.005	0.04	0.1			
35	1.22	1.25	5.2	0.135	0.09	0.8	0.04	0.06	0.4	0.011	0.06	0.25	0.006	0.05	0.13			
40				0.17	0.11	1.0	0.05	0.08	0.5	0.015	0.07	0.3	0.007	0.06	0.15			
45				0.21	0.16	1.3	0.063	0.1	0.6	0.02	0.09	0.35	0.008	0.065	0.18			
50				0.25	0.2	1.6	0.073	0.12	0.7	0.022	0.1	0.4	0.01	0.07	0.2			
60				0.34	0.35	2.2	0.1	0.18	0.9	0.03	0.12	0.45	0.015	0.08	0.25			
80				0.57	0.76	3.7	0.16	0.3	1.5	0.05	0.15	0.55	0.02	0.1	0.4			
100				0.85	1.35	5.8	0.23	0.44	2.3	0.075	0.18	0.6	0.03	0.11	0.5	0.008	0.04	0.1
120				1.18	2.05	9.1	0.32	0.64	3.3	0.105	0.21	1.0	0.04	0.13	0.6	0.01	0.05	0.15
140							0.42	0.85	4.5	0.14	0.23	1.25	0.05	0.16	0.8	0.013	0.06	0.2
160							0.54	1.13	5.8	0.17	0.28	1.6	0.07	0.2	1.1	0.015	0.07	0.25
180							0.67	1.45	7.4	0.205	0.31	2.0	0.08	0.21	1.3	0.02	0.08	0.3
200							0.81	1.82	9.0	0.245	0.35	2.5	0.1	0.26	1.6	0.025	0.09	0.4
220							0.95	2.22	11.0	0.29	0.41	3.0	0.12	0.3	1.9	0.028	0.1	0.5
240							1.10	2.63	13.5	0.34	0.48	3.7	0.14	0.33	2.2	0.035	0.11	0.55
260										0.39	0.53	4.5	0.165	0.39	2.5	0.04	0.115	0.6
280										0.45	0.61	5.3	0.19	0.42	2.8	0.045	0.12	0.65
300										0.515	0.7	6.2	0.22	0.5	3.1	0.05	0.13	0.7
350										0.68	1.05	8.5	0.28	0.67	4.1	0.07	0.15	0.9
400										0.86	1.55	11.0	0.36	0.88	5.2	0.085	0.18	1.2
450										1.05	2.25	13.5	0.44	1.1	6.6	0.105	0.2	1.5
500													0.54	1.4	8.0	0.13	0.23	1.75
550													0.64	1.7	9.5	0.15	0.27	2.1
600													0.75	2.05	10.2	0.175	0.3	2.5
650													0.87	2.41	13.0	0.2	0.34	2.8
700													1.0	2.8	15.0	0.23	0.4	3.4
750																0.26	0.43	3.8
800																0.3	0.5	4.4
850																0.33	0.56	5.0
900																0.37	0.62	5.7
950																0.41	0.7	6.3
1000																0.45	0.8	7.0
1100																0.53	1.06	8.6

NOTES:

1. For elbows - R/D=1.5
2. Test medium - water at 70 °F
3. Flow thru tees
Flow A to B
Port C capped off

Prepared by members of the Hygienic pump subgroup of the natl. assn. of dairy equipment manufacturers.

Pressure drop and flow velocity curves

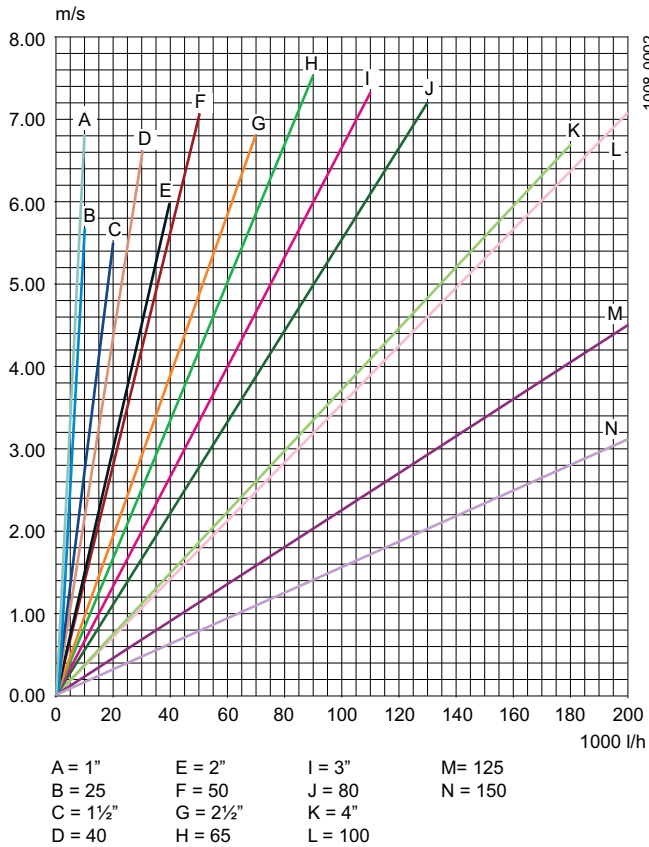


Figure 3. Flow velocity in ISO 2037 and EN 10357-A tubes

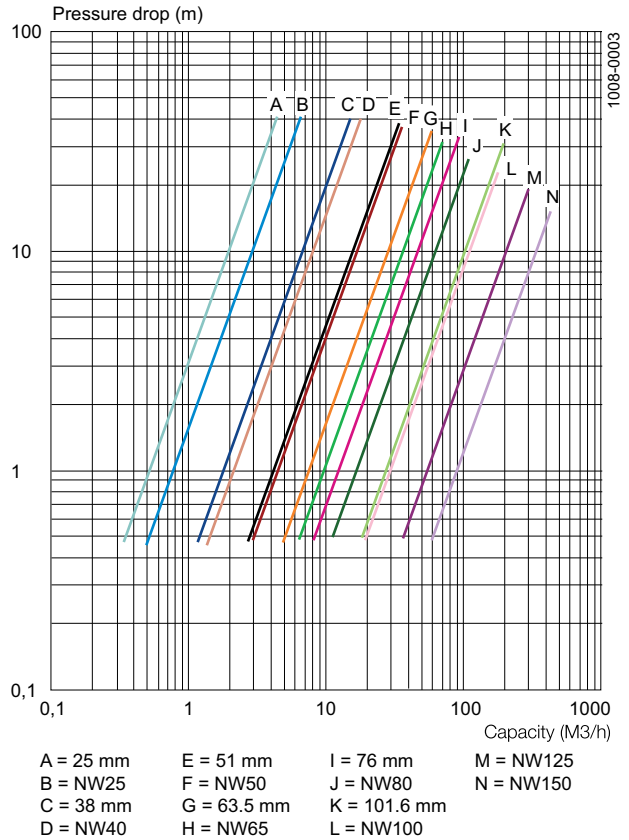


Figure 4. Pressure drop in 100 m ISO 2037 and EN 10357-A tubes

Alfa Laval Hygienic fittings DIN EN 10357-A

Hygienic fittings

Introduction

After years of intensive work with the portfolio we have achieved a unique surface appearance across the different DIN Fittings of which we are very proud. We have uniformed our marking, to support our high-quality Fittings and the result is fantastic. We call this range for “DIN Standard, new surface”, to highlight it, and give it a special space in the new catalogue, because it truly is unique. With focus on simplicity we have reduced the surface appearances to two on machined and one on tubular Fittings and we have concentrated on “Hygienic Fittings” with an exception of DIN 11864. We have invested heavily in availability of “DIN Standard, new surface” portfolio and supported by the new automatic warehouse in Kolding and our online ordering tool “Anytime”, this will provide a superior customer experience. Moreover, we have divided the catalogue into the different DIN standards, to show the differences and make it easy to choose the right product.

The old portfolio is, where possible and convenient, upgraded to our “DIN Standard, new surface”, the rest we have kept “as is”. In the price files we have made the following split:

- “DIN Standard, new surface”
- “Fit to DIN Tubes”

The complete DIN Fittings range we supply fits with the tube dimensions of EN 10357-A and DIN 11866- Reihe A (except from DIN 11851 W, which is according to the standard). The products in the chapter “Fit to DIN Tubes”, have deviations from the DIN standards, but will still fit to EN 10357-A tubes.

Thank You for reading this and we hope You enjoy!

Product presentation

Alfa Laval’s range of DIN Tubes & Fittings are used in food, dairy, beverage, personal care, biotechnology and pharmaceutical process applications. Smooth, crevice-free interiors and secure, self-aligning joints are characteristic for Alfa Laval fittings. Each offers superior corrosion-resistance and unmatched service life. Alfa Laval fittings are designed and manufactured to ensure dimensional accuracy and structural integrity, making them easy to install. Tubing is manufactured to Alfa Laval’s stringent specifications, making it a perfect match for the fittings. All products are labelled with a bar code, product information and



manufacturing date. This provides the optimum identification and ensures that the product arrives to the job site in a clean orbital weld condition. On the product we have laser marked all the needed information such as heat number, dimension, surface, material and country of origin

DIN Standard, Overview

Product	DIN Standard	Surface ¹	Material ²	Application	Part
Tubes	EN 10357- A/DIN 11850	BC, BD, CC and CD	1.4307 (304L) 1.4404 (316L)	Hygienic	
	DIN 11866-A ³	H3	1.4404 (316L)	Aseptic	
	DIN 11852	HSF3 HSF2	1.4307 (304L) 1.4404 (316L)	Hygienic	
Bends, Tees and Reducers	DIN 11865 ³	H3	1.4404 (316L)	Aseptic	For Welding. Ends are ready for Orbital Welding
	DIN 11851	HSF0	1.4307 (304L) 1.4404 (316L)	Hygienic	(Screw connections) W: Expanding S: Welding
Connections	DIN 11853	H3	1.4404 (316L)	Hygienic	1: Screw connection 2: Flange connection 3: Clamp connection
	DIN 11864	H3	1.4404 (316L)	Aseptic	1: Screw connection 2: Flange Connection 3: Clamp connection
	DIN 32676	HSF0	1.4307 (304L) 1.4404 (316L)	Hygienic	Clamp connection
		H3	1.4404 (316L)		

¹ Surface table is available later in the document

² Material is according to EN 10088-1. Regarding complete Connections, Nut is always in 1.4301. A Nut in 1.4404 is available as a single item. We hold the right to deliver better material than stated in our brochures and order confirmation. Meaning, if stated 1.4301, it is allowed for us to deliver 1.4307 or 1.4404, at same price of course.

³ We do currently not offer this part of the DIN standard

Content

- [Tubes](#)
- [Bends, Tees and Reducers](#)
- [Connections](#)
- [Marking and surface](#)
- [Basics](#)
- [Rubber material and application](#)
- [Pressure ratings](#)
- [Steelgrades](#)
- [Treatment of stainless steel](#)
- [Elastomer review](#)

Tubes

Material and surface overview

Standard	Material	Symbol	Surface			Heat Treatment
			External surface and Welded area	Internal surface	Internal Welded area	
EN 10357-A /DIN 11850	1.4307 (304L) 1.4404 (316L)	CC	Pickled and passivated	Ra < 0.8 µm Pickled and passivated	Ra < 1.6 µm Pickled and passivated	No
		CD	Polished Ra < 1.0 µm			
		BC	Pickled and passivated or Bright annealed	Ra < 0.8 µm Pickled and passivated or Bright annealed	Ra < 1.6 µm Pickled and passivated or Bright annealed	Yes
		BD	Polished Ra < 1.0 µm			
DIN 11866-A	1.4404 (316L)	H3	Pickled or Bright annealed without Ra requirement, or Polished to Ra < 1.0 µm	Ra < 0.8 µm	Ra < 0.8 µm	Yes

Sizes



Note! We supply EN10357-A which has the same dimensions as former DIN 11850 Reihe 2, and DIN 11866-A. Please also notice "Nominal size" is not always equal to inner diameter (see DN15, DN25, DN40, DN65 and DN 80). The EN 10357-A standard is only referring to outer diameter. All dimensions in this catalogue are in millimeter.

Nominal size (only DIN 11866)	OD (outer diameter)	ID (inner diameter)	t (wall thickness)
DN10	13	10	1.5
DN15	19	16	1.5
DN20	23	20	1.5
DN25	29	26	1.5
DN32	35	32	1.5
DN40	41	38	1.5
DN50	53	50	1.5
DN65	70	66	2
DN80	85	81	2
DN100	104	100	2
DN125	129	125	2
DN150	154	150	2
DN200	204	200	2

Tolerances

Outer diameter tolerances



Note! Outer diameter tolerances in DIN 11866 are lower from DN100 to DN200.

Nominal size:	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
OD:	13	19	23	29	35	41	53	70	85	104	129	154	204
EN 10357-A	±0,10	±0,10	±0,12	±0,15	±0,18	±0,21	±0,27	±0,35	±0,43	±0,78	±0,97	±1,16	±1,53
DIN 11866	±0,10	±0,10	±0,12	±0,15	±0,18	±0,21	±0,27	±0,35	±0,43	±0,52	±0,65	±0,77	±1,02

Wall thickness tolerances



Note! Wall thickness tolerances in DIN 11866 are lower from DN65 to DN200.

Nominal size:	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
OD:	13	19	23	29	35	41	53	70	85	104	129	154	204
EN 10357-A	±0,15	±0,15	±0,15	±0,15	±0,15	±0,15	±0,15	±0,20	±0,20	±0,20	±0,20	±0,20	±0,20
DIN 11866	±0,15	±0,15	±0,15	±0,15	±0,15	±0,15	±0,15	±0,15	±0,15	±0,15	±0,15	±0,15	±0,15

EN 10357-A/DIN 11850

The stainless-steel tubes in this standard are for the food, chemical and pharmaceutical industry.

Typically used with DIN 11852, DIN 11851, DIN 11853 and DIN 32676.

BC and BD tubes are annealed, whereas CC and CD tubes are pickled and passivated internal and external

All materials according to EN 10217-7.

DIN 11866

The stainless-steel tubes in this standard are for aseptic, chemical and pharmaceutical industry

Typically used with DIN 11864 and DIN 11865.

All tubes are annealed, pickled and passivated in accordance with DIN EN 10217-7 W2Ab.

Comment to DIN 11851 W

DIN 11850 Reihe 1, different measures up to DN50:



Note! Regarding Connections DIN 11851 W (Expanding), this is the only product in this catalogue which does not match tube EN 10357-A from sizes up to DN50, above DN50 they fit. This standard is meant for the old "DIN 11850, Reihe 1".

Dimensions	DN10	DN15	DN20	DN25	DN32	DN40	DN50
OD	12	18	22	28	34	40	52
ID	10	16	20	26	32	38	50
Thickness	1	1	1	1	1	1	1

Bends, Tees and Reducers

[DIN 11852 overview](#)

Tees

Type Name	Design Name	Comment	Picture
Tees	TS $d_1=d_2$	Standard Tee	
	RTS $d_1>d_2$ (d_2 pointing down)	Reduced Tee	
	TK $d_1=d_2$	Short Tee	
	RTK $d_1>d_2$ (d_2 pointing down)	Reduced Short Tee	

Reducers

Type Name	Design Name	Comment	Picture
Reducers	RK	Concentric Reducer	
	RE	Eccentric Reducer	

Example of the Alfa Laval name for a short tee according to DIN 11852:

TEE TK DN25 HSF3 1.4404 DIN 11852



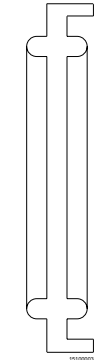
TEE	TK	DN25	HSF3	1.4404	DIN 11852
Type Name	Design Name	Nominal Size	Surface	Material	Standard

Bends

Type Name	Design Name	Comment	Picture
	BS-90	Standard Bend 90 Degrees	
	BS-45	Standard Bend 45 Degrees	
	BS-180	Standard Bend 180 Degrees	
Bends	BA5-90 ³	Radius and I_0 are the same in mm	
	BL-90	Long Bend 90	
	BL-45	Long Bend 45	

Connections

Gasket overview

DIN Standard	Surface	Material (Steel parts)	Material (Rubber parts)	Part	Seal Type
DIN 11851	HSF0	1.4307 (304L) 1.4404 (316L)	EPDM FPM NBR PTFE Q	Screw Connection W: Expanding (only 11851, Liner and Male end are expanded to the tube) S: Welding	 Gasket (G)
DIN 11853	H3	1.4404 (316L)	FPM EPDM	1: Screw Connection 2: Flange Connection 3: Clamp Connection	 O-Ring (R)
DIN 11864	H3	1.4404 (316L)	FPM EPDM	1: Screw Connection 2: Flange Connection 3: Clamp Connection	
DIN 32676	H3 HSF0	1.4307 (304L) 1.4404 (316L)	PTFE FPM	Clamp Connection	 Gasket (D)

DIN 11851 overview

All Connections in DIN 11851 are screw connections

Parts Type Name	Parts Design Name	Connection Name	Comment
Male (Gewindestutzen)	C	W	Connection to tube by expanding, DN10-DN100
Liner (Kegelstutzen)	D	W	
Male (Gewindestutzen)	SC	S	Connection to tube by welding, DN10-DN150
Liner (Kegelstutzen)	SD	S	
Male (Gewindestutzen)	SKC	SK (Short)	
Liner (Kegelstutzen)	SKD	SK (Short)	

Parts Type Name	Parts Design Name	Connection Name	Comment
Blind Male (Blind-Gewindestutzen)	BC		Alfa Laval does currently not offer this (real design name is "C")
Blind Liner (Blind-Kegelstutzen)	BD		The real design name is "D" but Alfa Laval has chosen to call it "BD". The blind is not expanded or welded to the tube, therefore it can be used for all connection versions in DIN 11851
Nut (Nutüberwurfmutter)	F		Used for all connection versions in DIN 11851
Gasket (Dichtring)	G		Used for all connection versions in DIN 11851

A Complete connection is Male + Liner + Gasket + Nut. It is possible to blind from Liner side. Please do not mix connection W with connection S.

The "Connection Name" equal to W, is from the German word, Walzen, which in English is translated to Expanding.

The "Connection Name" equal to S, is from the German word, Schweissen, which in English is translated to Welding.

The "Connection Name" equal to SK, is from the German word, Schweissen, Kurz, which in English is translated to Welding, Short.

Examples of DIN 11851 products:

SKC:			
S		K	C
Welding		Short	Male

SKD:			
S		K	D
Welding		Short	Liner

Example of the Alfa Laval name for a complete Connection, DIN 11851:

CONNECTION S DN50 HSF0 1.4307 DIN 11851 EPDM

CONNECTION	S	DN50	HSF0	1.4307	DIN 11851	EPDM
Type Name	Design Name (S=Welding)	Nominal Size	Surface	Material	Standard	Seal Type

Example of the Alfa Laval name for a Male, DIN 11851:

MALE SC DN50 HSF0 1.4307 DIN 11851

MALE	SC	DN50	HSF0	1.4307	DIN 11851
Type Name	Design Name	Nominal Size	Surface	Material	Standard

[DIN 11853 overview](#)

We state this product group is for hygienic application, but please be aware it is using the same O-ring as 11864 which is for aseptic applications, the only difference between the two standards is the "build in length". "Build in length" of DIN 11864 is longer than DIN 11853, which makes it easier to perform orbital welding.

[DIN 11853-1](#)

Screw Connection (Verschraubungen)

Parts Type Name	Parts Design Name	Connection Name
Male (Gewindestutzen)	GS	V
Liner (Bundstutzen)	BS	V
Blind Male (Blindgewindestutzen) (Same item as in 11864-1)	BGS	V
Blind Liner (Blindbundstutzen) (Same item as in 11864-1)	BBS	V
Nut (Nutüberwurfmutter)	F (DIN 11851)	V
O-Ring	R	V

A complete connection (V) is: Male (GS) + Liner (BS) + O-Ring (R) + Nut (F).

It is possible to blind from both Liner and Male side, you will have to replace normal Male or Liner. The Nut for DIN 11853 is the same as in DIN 11851.

DIN 11853-2

Flange Connection (Flanschverbindung)

Parts Type Name	Parts Design Name	Connection Name
Currently not part of offering		
Flange Groove (Nutflansch)	NF	F
Currently not part of offering		
Flange Collar (Bundflansch)	BF	F
Blind Flange Groove (Blindnutflansch) (Same item as in 11864-2)	BNF	F
Blind Flange Collar (Blindbundflansch) (Same item as in 11864-2)	BBF	F
Screw (Sechskantshraube, DIN EN ISO 4017)		F
Nut (Sechskantmutter, DIN ISO 4032)		F
O-Ring	R	F

For NF and BF please use 11864-2 NF and BF

A complete connection (F) is Flange Groove (NF) + Flange Collar (BF) + O-Ring (R) + Screw and Nut set.

It is possible to blind from both Groove and Collar side, you will have to replace normal Groove or Collar.

DIN 11853-3

Clamp Connection (Klemmverbindung)

Parts Type Name	Parts Design Name	Connection Name
Currently not part of offering		
Clamp Liner Groove (Nutmlemmstutzen)	NKS	K
Currently not part of offering		
Clamp Liner Collar (Bundklemmstutzen)	BKS	K
Blind Clamp Liner Groove (Blindnutklemmstutzen) (Same item as in 11864-3)	BNKS	K
Blind Clamp Liner Collar (Blindbundklemmstutzen) (Same item as in 11864-3)	BBKS	K
Clamp Ring (Klammer)		K
O-Ring	R	K

For NKS and BKS please use from 11864-3.

A complete connection (K) is: Clamp Liner Groove (NKS) + Clamp Liner Collar (BKS) + O-Ring (R) + Clamp Ring.

It is possible to blind from both Groove and Collar side, you will have to replace normal Groove or Collar.

DIN 11864

DIN 11864-1

Same structure as DIN 11853-1. Only "build in length" is different on Male and Liner (GS and BS), both are longer in the DIN 11864-1 version.

Screw Connection (Verschraubungen)

Parts Type Name	Parts Design Name	Connection Name
Male (Gewindestutzen)	GS	V
Liner (Bundstutzen)	BS	V
Blind Male (Blindgewindestutzen)	BGS	V
Blind Liner (Blindbundstutzen)	BBS	V
Nut (Nutüberwurfmutter)	F (DIN 11851)	V
O-Ring	R	V

A complete connection (V) is: Male (GS) + Liner (BS) + O-Ring (R) + Nut (F).

It is possible to blind from both Liner and Male side. Both "Blind Male" and "Blind Liner" are equal to the ones in DIN 11853-1. The Nut for DIN 11864 is the same as in DIN 11851.

DIN 11864-2

Same structure as DIN 11853-2. Only "build in length" is different on Flange Groove and Flange Collar (NF and BF), both are longer in the DIN 11864-2 version.

Flange Connection (Flanschverbindung)

Parts Type Name	Parts Design Name	Connection Name
Flange Groove (Nutflansch)	NF	F
Flange Collar (Bundflansch)	BF	F
Blind Flange Groove (Blindnutflansch)	BNF	F
Blind Flange Collar (Blindbundflansch)	BBF	F
Screw (Sechskantschraube, Din En Iso 4017)		F
Nut (Sechskantmutter, Din En Iso 4032)		F
O-Ring	R	F

It is possible to blind from both Groove and Collar side, BNF and BBF in DIN 11853-2 and DIN 11864-2 are identical.

A complete connection (F) is: Flange Groove (NF) + Flange Collar (BF) + O-Ring (R) + Screw and Nut set.

DIN 11864-3

Same structure as DIN 11853-3. Only "build in length" is different on "Clamp Liner Groove" and Clamp Liner Collar (NKS and BKS), both are longer in the DIN 11864-3 version.

Clamp Connection (Klemmverbindung)

Parts Type Name	Parts Design Name	Connection Name
Clamp Liner Groove (Nutklemmstutzen)	NKS	K
Clamp Liner Collar (Bundklemmstutzen)	BKS	K
Blind Clamp Liner Collar (Blindbundklemmstutzen)	BNKS	K
Blind Clamp Liner Collar (Blindbundklemmstutzen)	BBKS	K
Clamp Ring (Klammer)		K
O-Ring	R	K

A complete connection (K) is: Clamp Liner Groove (NKS) + Clamp Liner Collar (BKS) + O-Ring (R) + Clamp Ring.

It is possible to blind from both Groove and Collar side, BNKS and BBKS in DIN 11853-3 and DIN 11864-3 are identical.

DIN 32676

Clamp Connection (Klemmverbindung)

Parts Type Name	Parts Design Name	Connection Name
Ferrule Short (Klemmstutzen Kurz)	KK	KK KL
Ferrule Long (Klemmstutzen Lang)	KL	KK KL
Blind (Blindklemmstutzen)	B	KK KL
Gasket (Dichtring)	D	KK KL
Clamp Ring (Klammer)		KK KL

A complete connection is: Ferrule x 2 + Gasket (D) + Clamp Ring.

It is possible to blind from both sides by changing one of the Ferrules with a Blind.

Length of assembled connections

Approx. length in mm of the assembled connections (Baulänge)

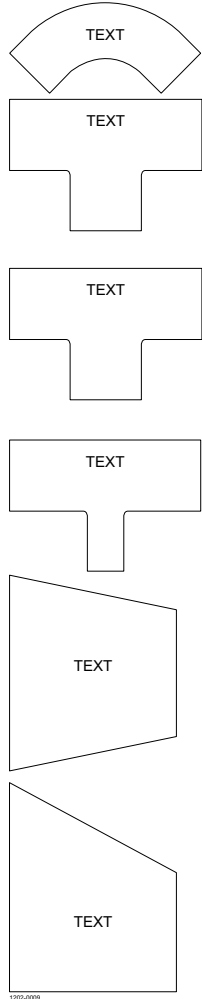
Nominal size	DIN 11851		DIN 11853			DIN 11864			DIN 32676	
	W and S	SK	1	2	3	1	2	3	KK	KL
DN10	35	27	32	48	44	76	80	76	37.7	58.9
DN15	35	27	32	48	44	76	80	76	37.7	58.9
DN20	37	27	34	48	44	76	80	76	37.7	58.9
DN25	45	31	42	48	44	77	80	77	44.7	73.7
DN32	51	31	48	48	48	88	90	88	44.7	73.7
DN40	53	31	50	48	48	88	90	88	44.7	73.7
DN50	57	33	54	48	49	89	90	89	44.7	73.7
DN65	65	35	62	48	53	113	108	113	57.7	97.7
DN80	75	35	72	52	57	117	116	117	57.7	97.7
DN100	89	41	86	52	60	120	116	120	57.7	97.7
DN125	70	49		56			120		57.7	133.7
DN150	76	56		56			120		57.7	133.7

Marking and surface

Marking

In Alfa Laval we have chosen to mark our product as shown in this chapter. The marking provides all the needed information and is placed logical on the products.

Tubular



Tube dimensions:

Outer diameter and wall thickness

Surface

On reduced items both sizes has to be written

See AL "description" on AL 2061 300

ALFA LAVAL® - OD₁T₁ / OD₂xT₂XXXX
X.XXX (XXX) XX-HT: XXXXXXX/XXXXX

Material type:
EN (AISI)

Country of origin:
ISO 3166-1
ALPHA-2 code

Heat number:
Write number for all parts

Font: Helvetica or Arial

Font size: adjusted to the tube size

Example on straight fitting with one heat number:

ALFA LAVAL® - 70x2.0 HSF3

1.4307 (304L) CN-HT:123456

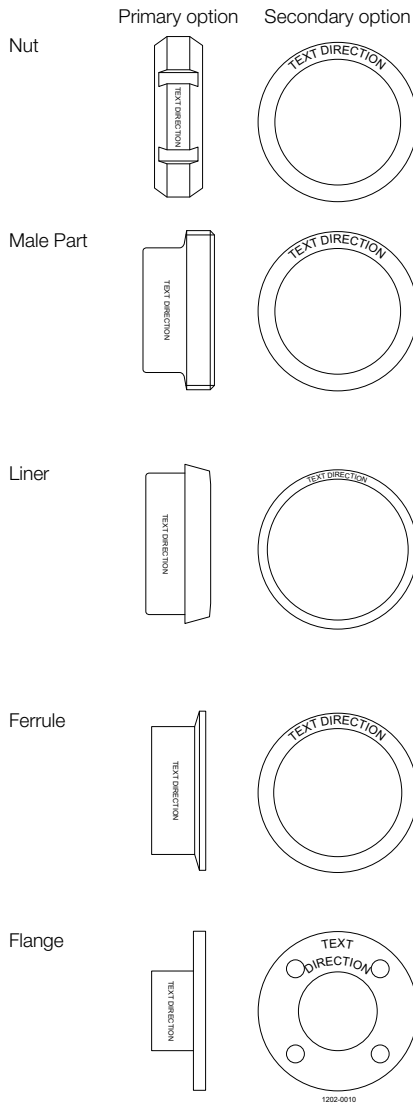
Example on reduced fitting with two heat number:

ALFA LAVAL® - 70x2.0/ 41x1.5 HSF3

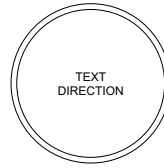
1.4307 (304L) IN-HT:123456/789012

Machined

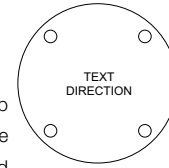
Some of our machined products are very small and marking on the optimal place is impossible therefore we use "Secondary Option" instead of "Primary Option".



End cap
union and
ferrule
Blind

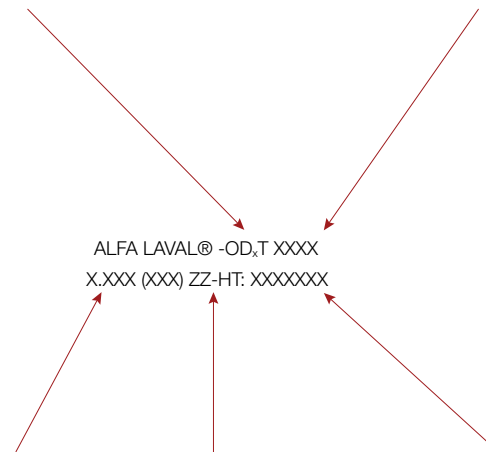


End cap
flange
Blind



Dimensions:
Outer diameter and wall thickness
On nut and blanks the standard size is
added.
Eg.: for DIN: DIN:DN50, For ISO: 2

Surface:
See "AL description" on AL 2062 301



Material type:
EN (AISI)

Country of origin:
ISO 3166-1
ALPHA-2 code

Heat number:
Nut do not have a heat
number
All other fittings need a heat
number

Font: Helvetica or Arial
Font size: adjusted to the tube size
Example on male part, liner, ferrule and flange
ALFA LAVAL® - 70x2.0 HSF0
1.4301 (304) CN-HT: 123456
Example on nut and blanks
ALFA LAVAL® - 70x2.0/HSF0
1.4301 (304) IN-HT: 123456
**Example on secondary option, on nut, male part, liner
and ferrule**
ALFA LAVAL® - 70x2.0 HSF0 1.4301 (304) DK-HT: 123456

Surface descriptions

We have chosen to provide a limited choice, most used, of all the surface possibilities. We have given them an Alfa Laval name. The names and descriptions are like in the below table.

Our surface philosophy has been to create a uniform surface finish which meets the standard or better and at the same time fits with the outer surface appearance of the DIN tubes across all DIN Fittings. The range "DIN Standard, new surface" will provide this benefit and will be visible in plants using Alfa Laval DIN Fittings only.

The new uniform appearance of all Alfa Laval DIN Fittings is also the reason for new surface descriptions. This is a unique product and therefore it deserves a unique surface description.

The surface on tubular fittings exceeds the requirement in DIN 11852. We are meeting the requirements to surface roughness in EHEDG and 3A. Our customers are therefore buying a product with a better surface roughness than most of the market supplies.

Machined Fittings

AL description	Standard	Surface texture R _a μm (μ-inch)	
		Wetted	Not wetted
HSF0	DIN (Hygienic)	< 0.8 (32)	< 1.6 (64)
H3	DIN UltraPure	< 0.8 (32)	< 1.0 (40)

Tubular Fittings

AL description	Standard	Surface structure ID/OD	Surface texture R _a μm (μ-inch)			
			Wetted		Not wetted	
			Surface	weld bead	Surface	weld bead
HSF2	DIN (Hygienic)	Polished/Shot blasted	<0.8 (32)	<0.8 (32)	<1.6 (64) ¹	<1.6 (64) ¹
HSF3 ²	DIN (Hygienic)	Polished/Polished	< 0.8 (32)	< 0.8 (32)	< 0.8 (32)	< 0.8 (32)

¹ Tolerances according to DIN 11852

² For sizes larger than DN100, the "Not wetted" surface Ra can be up to 1.0 μm.

Our products are mechanical polished. Mechanical polishing is achieved by using a progressive series of abrasives, from low to high grit. This allows a consistent internal finish and both optimal and economical cleaning.

HSF2 is our tubular "MAT" version. Inside it is polished to Ra <0.8 and outside it is shot blasted to a surface Ra<1.6

Basics

Test procedure

Our manufacturing facilities operate under an approved ISO 9001 quality standard. Wall thickness integrity is maintained using fabrication grade minimum wall tubing for all cold-formed tubular products.

Our fittings are put through visual inspection and ovality and squareness tolerances are inspected with calibrated equipment. Surface finish is inspected with calibrated profilometer to ensure the Roughness average (Ra) maximum is not exceeded.

Certificates

All product wetted stainless-steel products are delivered with a 3.1 certificate in accordance to EN 10204.

Packing

We protect our products by packing them into high quality cardboard boxes. This ensure they keep the high quality during storing and transportation.

Packing sizes as below:

DN10-DN80 = 10 pcs per cardboard box

DN100 = 5 pcs per cardboard box

> DN100 = 1 pcs per cardboard box

Rubber

Rubber Materials

In order to obtain the longest possible lifetime for rubber seals it is essential to choose the right quality for the actual duty. Consequently when choosing rubber quality, the characteristics of the different rubber types should be considered. All product wetted rubber material are in conformity of FDA.

EPDM Rubber (Ethylene Propylene)

EPDM rubber is widely used within the food industry as it is resistant to most products used in this sector. Another advantage is that it may be used to a recommend max. temperatures of 140°C (244°F). However, there is one essential limitation, EPDM is not resistant to organic and non-organic oils and fats. The resistance to ozone is excellent.

Acrylonitrile Butadiene Rubber, NBR

NBR is the rubber type most frequently used for technical purposes. It is quite resistant to most hydrocarbons, e.g oil, grease and fat. It is sufficiently resistant to diluted lye and nitric acid and may be used to a recommend max. 95°C (203°F). As NBR is attacked by ozone it may not be exposed to ultraviolet rays and should thus consequently be stored so that this is avoided.

Silicone Rubber, Q

The most significant quality of silicone rubber is that it can be applied from temperatures below -50°C (-58°F) to approx. + 180°C (356°F) and still keep its elasticity. The chemical resistance is satisfactory to most products. However, undiluted lye and acids as well as hot water and steam may destroy silicone rubber. The resistance to ozone is good.

Fluorine Rubber, FPM

FPM is often used when other rubber types are unsuited, especially at high temperatures up to approx. 180°C (356°F). The chemical resistance is good to most products, however hot water, steam, lye, acid and alcohol should be avoided. The resistance to ozone is good.

Hydrogenated acrylonitrileButadiene Rubber, HNBR

Mechanically strong and normally resistant to ozone and strong oxidizers, animal and vegetable fats, nonpolar solvents, oils and lubricants, water and aqueous solutions. The recommend max. temperature is 130°C (266°F).

Perfluoroalkoxy polymer, PFA

PFA is very similar to PTFE, but opposite to those PFA is thermo plastic and has minimal porosity. PFA has a very high mechanical strength which makes it a perfect choice when dealing with abrasive products. The PFA seal offers longer service intervals. The recommend max. temperature for the PFA seal is 90°C (194°F).

Rubber material and application

Product and chemical resistance of flexible rubber materials

The information below is intended as an aid in selecting the best rubber quality for an actual application. It is not possible to state any general lifetime of rubber seals as many factors influence it: chemical attack, temperature, mechanical wear etc. Extreme temperatures, even within the generally accepted limits, may worsen other kinds of attack and thus reduce the lifetime.

Ratings

1 = Unsuitable.

2 = Limited suitability.

3 = Normal suitability.

4 = High suitability.

- = Not recommended for other reasons.

The table contains data which have been compiled from the results of our own tests and the recommendations of our raw material suppliers. The data should be considered as recommendations only and will be brought up-to-date from time to time. They are based on constant contact with the specified product.

In case of doubt or lack of information it would be advisable to consult us directly, which will enable us to investigate specific applications.

Product or process	NBR ¹⁾	EPDM ²⁾	Q ³⁾	FPM ⁴⁾	PTFE ⁵⁾
Dairy products (milk, cream)	3	3-4	3-4	-	3-4
Dairy products (sour milk products)	3	3-4	3-4	-	3-4
Brewery products (beer, hops etc.)	3	3-4	1-2	2-3	3-4
Wine and yeast	3	4	4	2-3	3-4
Animal and vegetable fats: 100 °C	3	1-2	3	4	3-4
Water and water solutions < 70 °C	3	4	3	2-4	3-4
Hot water and steam < 130 °C	1	4	2	-	3-4
Concentrated fruit juices and etheral oils < 100 °C	1	1	1	3	3-4
Non-oxydising acids < 80 °C	1-2	3	1-2	2	3-4
Oxydising acids < 80 °C	-	3	1	2	3-4
Weak concentrate of lye < 100 °C	2	4	2	2	3-4
Strong concentrate of lye < 100 °C	1	3	1	1	3-4
Mineral oils < 110 °C	3	-	-	4	3-4
Aliphatic carburetted hydrogen (hexane)	3	1	1	4	3-4
Aromatic carburetted hydrogen (benzole)	1	1	1	3	3-4
Alcohols	1-3	2-3	3-4	3-4	3-4
Ester and ketones	1-2	1-2	1-2	3-4	3-4
Ether	1	1	1-3	3-4	3-4
Methylene chloride	1	1	2-3	3-4	3-4
Ozone and atmospheric conditions	1-2	4	4	3-4	3-4

International designation of flexible rubber materials according to ISO R 1629.

ISO = International standard.

Notes

	Designation of flexible rubber materials	Abbreviation symbol
1)	Nitrile rubber	N
2)	Ethylene propylene rubber	E
3)	Silicone rubber	Q
4)	Fluorinated rubber	F
5)	Polytetrafluor ethylene	

Pressure ratings

EN 10357-A Tubes

Permissible max. Operating Pressures at a temperature of 20 °C

Nominal diameters													
DN	10	15	20	25	32	40	50	65	80	100	125	150	200
Permissible operating pressures in bar for tubes													
	355	242	200	159	131	112	87	87	72	59	47	39	30

The permissible operating pressures have been calculated for welded pipes with the calculation value for material number 1.4301 acc. to DIN EN 10088-2 product shape C (cold strip) taking into consideration calculation voltage of 100% in the welded seam.

Permissible max. Operating Pressures at a temperature of 150 °C

Nominal diameters													
DN	10	15	20	25	32	40	50	65	80	100	125	150	200
Permissible operating pressures in bar for tubes													
	219	150	124	98	81	69	53	54	44	36	29	24	18

Maximum pressure for the DIN Connections [bar]

The pressures are usable up to maximum 140 °C

Size	Standard						
	11851	11853-1	11853-2	11853-3	11864-1	11864-2	11864-3
DN10							
DN15							
DN20							
DN25	40	40	25	40	40	25	40
DN32							
DN40							
DN50							
DN65				25			25
DN80	25	25	16		25	16	
DN100				16			16
DN125							
DN150	16		10			10	

Maximum pressure for the Tubular Fittings [bar]

The pressures are usable up to maximum 150 °C

Size	DIN 11852		
	TEES	BENDS	REDUCERS
DN10			
DN15			
DN20			
DN25	25	25	25
DN32			
DN40			
DN50			
DN65			
DN80	16	16	16
DN100	12.5		
DN125	10		
DN150	8	10	10
DN200	5		

For reduced Tees and Reducers the DN size refers to the largest diameter.

Pressure drop and flow velocity curves

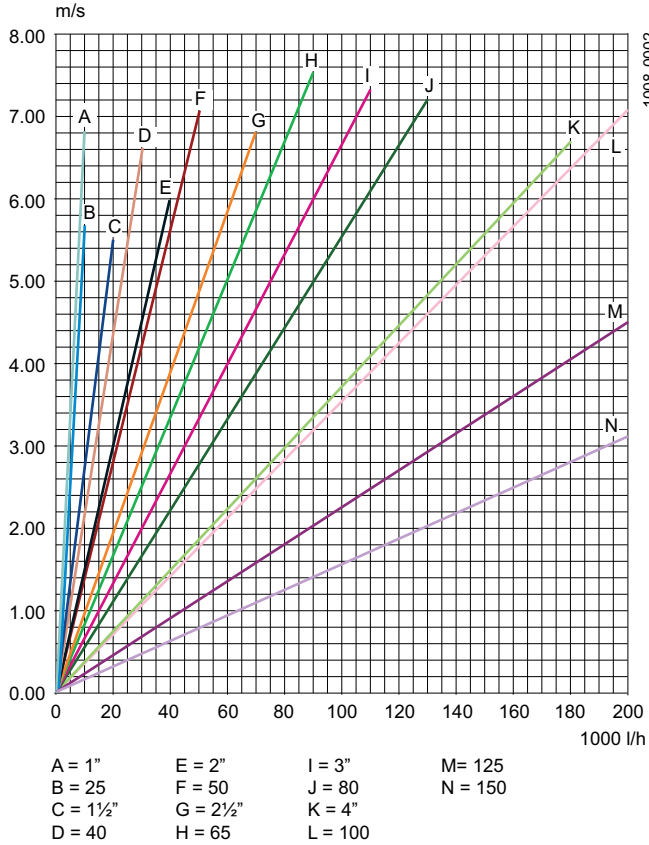


Figure 1. Flow velocity in ISO 2037 and EN 10357-A tubes

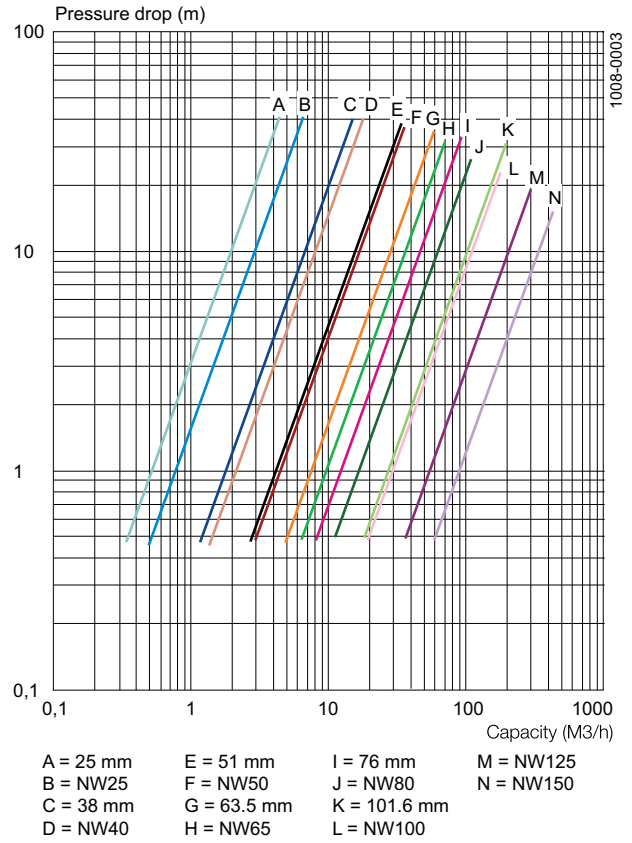


Figure 2. Pressure drop in 100 m ISO 2037 and EN 10357-A tubes

Steelgrades

Most common steelgrades

In the table below, we have shown the chemical composition of the materials.

Name	Material	Chemical composition								
		C	Si	Mn	Pmax.	S	N	Cr	Mo	Ni
X5CrNi18-10	1.4301 (304)	≤ 0.070	≤ 1.00	≤ 2.00	0.045	≤ 0.015	≤ 0.011	17.5 to 19.5		8.0 to 10.5
X2CrNi18-9	1.4307 (304L)	≤ 0.030	≤ 1.00	≤ 2.00	0.045	≤ 0.015	≤ 0.011	17.5 to 19.5		8.0 to 10.5
X5CrNiMo17-12-2	1.4401 (316)	≤ 0.070	≤ 1.00	≤ 2.00	0.045	≤ 0.015	≤ 0.011	16.5 to 18.5	2.0 to 2.5	10.0 to 13.0
X2CrNiMo17-12-2	1.4404 (316L)	≤ 0.030	≤ 1.00	≤ 2.00	0.045	≤ 0.015	≤ 0.011	16.5 to 18.5	2.0 to 2.5	10.0 to 13.0
X2CrNiMo18-14-3	1.4435 (316L)	≤ 0.030	≤ 1.00	≤ 2.00	0.045	≤ 0.015	≤ 0.011	17.0 to 19.0	2.5 to 3.0	12.5 to 15.0

(According to EN 10088-1)

(The material names 304, 304L, 316 and 316L according to AISI/SAE)

We do not offer 1.4435, we have chosen 1.4404 instead. Both materials are designed for highly corrosive environments. Material 1.4435 has due to the higher content of Chromium and Nickel a better corrosion resistance and formability than 1.4404, it also has a significantly higher price. Our many years in the Installation Material Business has proven 1.4404 as the best match for our customers processes.

Treatment of stainless steel

We will shortly touch two of the most important areas:

1. Heat treatment
2. Chemical surface treatment

Heat treatment

Processes where you are heating the metal to a certain temperature, which will make the atoms migrate in the crystal lattice.

We will focus on the most important.

Annealing

A process where the metal is heated to a temperature around 1050 ° - 1150 °C, kept there for a specific time and then cooled at a very slow and controlled rate. The process is used to:

- Reduce hardness
- Increase ductility
- Release mechanical stresses

After annealing the metal is more workable.

Chemical surface treatment

To understand why we do surface treatments, it is important to understand the role of the passive layer.

The passive layer is a thin invisible oxide film (most important are the chromium- and iron oxides), which protects the steel from its surroundings, and therefore from corrosion. If the layer is locally broken, for example by a scratch, it will, under normal conditions (clean surface and enough oxygen), naturally self-passivate, and thereby restore the ability to avoid corrosion. Stainless steels ability to have this in-built self-repairing corrosion protection system, is what we benefit from.

In some cases, typically after reworking the steel, we need to help the steel to restore the oxide film, here the surface treatment is important. The good thing is, stainless steel treated in the right way and not exposed above its "chemical strength", will last very long. On the other side, if the "rules" working with stainless steel are not followed or the stainless steel is placed in an environment above its "chemical strength", the oxide layer will "break" and corrosion will start, once the corrosion has started it will proceed very fast.

The two most common mentioned chemical surface treatments are "Pickling" and "Passivation".

Pickling

A process where the metal is put into an acid bath (typically 15 % Nitric acid and 3 % Hydrofluoric acid). Time and temperature of the bath is depending by the case. Pickling is used to remove weld heat tinted layers from the surface. A thin layer of metal is removed by the process and cleaning the steel, after the process the steel has totally lost its oxide film, but after flushing with water it will automatically be reestablished. It will take up to 24 hours before the layer is as robust as before the welding process.

Passivation

When the surface is clean the passivation (reestablishing the oxide film), is happening automatically, but as discussed above it will take some time before the layer has the natural strength. This can be forced to happen very fast by a chemical passivation. The passivation bath is one type of acid (normally 20 % Nitric acid). No metal is removed from the surface and the surface roughness is not changed, only the passive layer is strengthened.

Elastomer review

Elastomers

Seal rings are available in EPDM, FPM and PTFE

Elastomer properties

	EPDM	FPM	PTFE
FDA (CFR 21: 177.2600)	Yes	Yes	Yes
USP Class VI certified	No	No	No
Recommended operating temperature °C	-10 °C to +140 °C	-10 °C to +180 °C	-10 °C to +220 °C
Resistance			
Steam resistance	Yes	No	Yes
Alkali resistance	Yes	No	Yes
Resistance to fats/oils	No	Yes	Yes
Ozone resistance	Yes	Yes	Yes

This page is intentionally left blank

Tubes and Fittings

Hygienic fittings	43
Hygienic tubes	187
Installation accessories	191
Other fittings	201
UltraPure fittings	205
UltraPure tubes	243

This page is intentionally left blank

Hygienic fittings

Ordering leaflet

BS 4825 Bends 45	46
BS 4825 Bends 90	47
BS 4825 Clamp Unions	48
BS 4825 Tees Equal	49
BS 4825 Tees Reducing Short	50
BS 4825 Tees Short	51
BS 4825 Threaded Unions IDF	52
BS 4825 Threaded Unions RJT	53
BS 4825 Threaded Unions SMS	55
DIN EN 10357-A Bends 45 EN 10374-A	56
DIN EN 10357-A Bends 90 EN 10374-A	58
DIN EN 10357-A Blind for Clamp Unions DIN 11853/11864	61
DIN EN 10357-A Blind for Flange Unions DIN 11853/11864	62
DIN EN 10357-A Blind Liner BD for Unions DIN 11851	63
DIN EN 10357-A Clamp Rings	64
DIN EN 10357-A Clamp Unions DIN 11864-3	65
DIN EN 10357-A Clamp Unions DIN 32676	66
DIN EN 10357-A Concentric Reducers EN 10374-A	70
DIN EN 10357-A Eccentric Reducers EN 10374-A	74
DIN EN 10357-A Equal Tees EN 10374-A	78
DIN EN 10357-A Flange Unions DIN 11853-2	80
DIN EN 10357-A Flange Unions DIN 11864-2	82
DIN EN 10357-A Gasket G for Unions DIN 11851	83
DIN EN 10357-A Nut F for DIN 11851/11853-1/11864-1	86
DIN EN 10357-A O-ring R for DIN 11853/11864	87
DIN EN 10357-A Reducing Tees EN 10374-A	88
DIN EN 10357-A Reducing Tees Short EN 10374-A	92
DIN EN 10357-A Tees Short EN 10374-A	96
DIN EN 10357-A Threaded Expanding Unions DIN 11851 W	98
DIN EN 10357-A Threaded Unions DIN 11851 S	99
DIN EN 10357-A Threaded Unions DIN 11851 SK	101
DIN EN 10357-A Threaded Unions DIN 11853-1	103
DIN EN 10357-A Threaded Unions DIN 11864-1	105
DIN for INCH Threaded Unions	106

Hygienic fittings

Ordering leaflet	
Fit to DIN Bends 45	108
Fit to DIN Bends 90	109
Fit to DIN Equal Tees	111
Fit to DIN Hose Unions	112
Fit to DIN Nut End Caps	113
Fit to DIN Pressure Flanges	115
Fit to DIN Seal Rings	118
Fit to DIN Sockets	122
Fit to DIN Tees Short	123
ISO EN 10357-D Adapters	124
ISO EN 10357-D Bend 90/Nut/Liner/Male	125
ISO EN 10357-D Bends 45	126
ISO EN 10357-D Bends 90	127
ISO EN 10357-D Blank SMS	129
ISO EN 10357-D Clamp Unions	130
ISO EN 10357-D Clamp Unions ISO 2852	132
ISO EN 10357-D DS 720 Threaded	134
ISO EN 10357-D Expanding Unions SMS	139
ISO EN 10357-D Flange Unions	141
ISO EN 10357-D French SMS	143
ISO EN 10357-D Hose Liner Bends	145
ISO EN 10357-D Hose Liners	146
ISO EN 10357-D Nut End Cap/Chain SMS	147
ISO EN 10357-D Nut End Caps SMS	148
ISO EN 10357-D Nut SMS	149
ISO EN 10357-D Pressure Flanges	150
ISO EN 10357-D Reducers Concentric	151
ISO EN 10357-D Reducers Eccentric	152
ISO EN 10357-D Seal Rings SMS	153
ISO EN 10357-D Tees Equal	154
ISO EN 10357-D Tees Reducing	155
ISO EN 10357-D Tees Reducing Short	156
ISO EN 10357-D Tees Short	157
ISO EN 10357-D Threaded Reducing Expanding Unions SMS	158

Hygienic fittings

Ordering leaflet

ISO EN 10357-D Threaded Reducing Unions SMS	159
ISO EN 10357-D Threaded Unions IDF	160
ISO EN 10357-D Threaded Unions RJT	163
ISO EN 10357-D Threaded Unions SMS	164
Tri-Clover 3A Adapters	166
Tri-Clover 3A Bends 45	167
Tri-Clover 3A Bends 90	168
Tri-Clover 3A Clamp Ferrules	170
Tri-Clover 3A Clamp Gaskets	173
Tri-Clover 3A Clamp Rings	177
Tri-Clover 3A Crosses	178
Tri-Clover 3A End Caps	179
Tri-Clover 3A Hose Adapters	180
Tri-Clover 3A Hygienic Reducers	181
Tri-Clover 3A Hygienic Reducers Concentric	182
Tri-Clover 3A Reducing Tees	183
Tri-Clover 3A Swivel Joint	184
Tri-Clover 3A Tees Equal	185
Tri-Clover 3A Thermometer Caps	186

ALSIS Code: 5002
Standard: BS 4825

Model: Bends 45

Item no.	Material	Size mm	Dimension (mm)			POL (ID=0.8/OD=1.0)
			OD/ID x t	L1	L2	
9612636607	1.4404 (316L)	25.4 mm	25.40/22.20x1.60	108.10	62.70	
9612636608	1.4404 (316L)	38.1 mm	38.10/34.90x1.60	127.20	79.60	
9612636609	1.4404 (316L)	50.8 mm	50.80/47.60x1.60	146.30	96.00	
9612636610	1.4404 (316L)	63.5 mm	63.50/60.30x1.60	165.80	113.60	
9612636611	1.4404 (316L)	76.2 mm	76.20/73.00x1.60	185.00	130.50	
9612636612	1.4404 (316L)	101.6 mm	101.60/97.60x2.00	223.10	164.30	

Item no.	Material	Size mm	Dimension (mm)			
			OD/ID x t	L	R	
POL (ID=0.8/OD=1.0)						
9612636501	1.4307 (304L)	25.4 mm	25.40/22.20x1.60	65.00	37.50	
9612636502	1.4307 (304L)	38.1 mm	38.10/34.90x1.60	85.00	57.00	
9612636503	1.4307 (304L)	50.8 mm	50.80/47.60x1.60	110.00	76.50	
9612636504	1.4307 (304L)	63.5 mm	63.50/60.30x1.60	135.00	95.30	
9612636505	1.4307 (304L)	76.2 mm	76.20/73.00x1.60	155.00	114.20	
9612636506	1.4307 (304L)	101.6 mm	101.60/97.60x2.00	195.00	152.50	
9612636507	1.4404 (316L)	25.4 mm	25.40/22.20x1.60	65.00	37.50	
9612636508	1.4404 (316L)	38.1 mm	38.10/34.90x1.60	85.00	57.00	
9612636509	1.4404 (316L)	50.8 mm	50.80/47.60x1.60	110.00	76.50	
9612636510	1.4404 (316L)	63.5 mm	63.50/60.30x1.60	135.00	95.30	
9612636511	1.4404 (316L)	76.2 mm	76.20/73.00x1.60	155.00	114.20	
9612636512	1.4404 (316L)	101.6 mm	101.60/97.60x2.00	195.00	152.50	
RAW (ID=0.8/OD=1.0)						
9611311568	1.4307 (304L)	25.4 mm	25.40/22.20x1.60	65.00	37.50	
9611311569	1.4404 (316L)	25.4 mm	25.40/22.20x1.61	65.00	37.50	
9611311578	1.4307 (304L)	38.1 mm	38.10/34.90x1.60	85.00	57.00	
9611311579	1.4404 (316L)	38.1 mm	38.10/34.90x1.60	85.00	57.00	
9611311588	1.4307 (304L)	50.8 mm	50.80/47.60x1.60	110.00	76.50	
9611311589	1.4404 (316L)	50.8 mm	50.80/47.60x1.60	110.00	76.50	
9611311599	1.4404 (316L)	63.5 mm	63.50/60.30x1.60	135.00	95.30	
9611311608	1.4307 (304L)	76.2 mm	76.20/73.00x1.60	155.00	114.20	
9611311609	1.4404 (316L)	76.2 mm	76.20/73.00x1.60	155.00	114.20	

BS 4825 Clamp Unions

Hygienic fittings

ALSIS Code: 5045
Standard: BS 4825

Model: Ferrule
Finish: Machined

Item no.	Material	Size	Dimension					
			mm	OD/ID x t	A	B		C
Long								
9613417203	1.4404 (316L)	25.4 mm		22.00	25.40	50.50	21.50	
9613417204	1.4404 (316L)	38.1 mm		34.90	38.10	50.50	21.50	
9613417205	1.4404 (316L)	51.0 mm		47.60	50.80	64.00	21.50	
9613417206	1.4404 (316L)	63.5 mm		60.30	63.90	77.50	21.50	
9613417208	1.4404 (316L)	101.6 mm		97.60	101.60	119.00	21.50	
9613417207	1.4404 (316L)	76.1 mm		73.00	76.20	91.00	21.50	
SHORT								
9611340170	1.4307 (304L)	25.0 mm	25.70/22.20x1.75	50.40	12.70			
9611340171	1.4307 (304L)	38.0 mm	38.40/34.90x1.75	50.40	12.70			
9611340172	1.4307 (304L)	51.0 mm	51.10/47.50x1.80	63.90	12.70			
9611340174	1.4307 (304L)	76.1 mm	76.50/72.90x1.80	90.90	12.70			
9611340175	1.4307 (304L)	101.6 mm	101.90/97.40x2.25	118.90	15.90			
9611340173	1.4307 (304L)	63.5 mm	63.80/60.20x1.80	77.40	12.70			
9611340180	1.4404 (316L)	25.0 mm	25.70/22.20x1.75	50.40	12.70			
9611340181	1.4404 (316L)	38.0 mm	38.40/34.90x1.75	50.40	12.70			
9611340182	1.4404 (316L)	51.0 mm	51.10/47.50x1.80	63.90	12.70			
9611340183	1.4404 (316L)	63.5 mm	63.80/60.20x1.80	77.40	12.70			
9611340184	1.4404 (316L)	76.1 mm	76.50/72.90x1.80	90.90	12.70			
9611340185	1.4404 (316L)	101.6 mm	101.90/97.40x2.25	118.90	15.90			

Item no.	Material	Size	Dimension (mm)		
		mm	OD(ID x t)	L	
POL (ID=0.8/OD=1.0)					
9612636707	1.4404 (316L)	25.4 mm	25.40/22.20x1.60	44.00	
9612636708	1.4404 (316L)	38.1 mm	38.10/34.90x1.60	64.00	
9612636709	1.4404 (316L)	50.8 mm	50.80/47.60x1.60	89.00	
9612636710	1.4404 (316L)	63.5 mm	63.50/60.30x1.60	114.00	
9612636711	1.4404 (316L)	76.2 mm	76.20/73.00x1.60	134.00	
9612636712	1.4404 (316L)	101.6 mm	101.60/97.60x2.00	195.00	

BS 4825 Tees Reducing Short

Hygienic fittings

ALSIS Code: 5021
Standard: BS 4825

Model: Tee
Design: Short

Item no.	Material	Size	Second size	Dimension (mm)				ID:RAW=0.8/OD:POL=1.0
		mm	mm	OD1/ID1 x t1	OD2/ID2 x t2	L1	L2	
9612927714	1.4401 (316)	152.4 mm	76.1 mm	152.4/148.4x2.00	76.10/73.00x1.60	154.00	156.00	<p>The diagram shows a side view of a tee fitting. It has two main sections of length, L1 and L2, separated by a central vertical stem. The diameters of the two main sections are D1 and D2. The drawing includes a fillet at the base of the stem and a small detail 'R000-0332' at the bottom center.</p>
9612927692	1.4401 (316)	38.1 mm	25.4 mm	38.10/34.90x1.60	25.40/22.20x1.60	75.00	40.60	
9612927694	1.4401 (316)	50.8 mm	25.4 mm	50.80/47.60x1.60	25.40/22.20x1.60	89.00	54.30	
9612927695	1.4401 (316)	50.8 mm	38.1 mm	50.80/47.60x1.60	38.10/34.90x1.60	89.00	54.30	
9612927697	1.4401 (316)	63.5 mm	25.4 mm	63.50/60.30x1.60	25.40/22.20x1.60	95.00	67.00	
9612927698	1.4401 (316)	63.5 mm	38.1 mm	63.50/60.30x1.60	38.10/34.90x1.60	95.00	67.00	
9612927699	1.4401 (316)	63.5 mm	50.8 mm	63.50/60.30x1.60	50.80/47.60x1.60	95.00	67.00	
9612927702	1.4401 (316)	76.1 mm	25.4 mm	76.10/73.00x1.60	25.40/22.20x1.60	95.00	81.20	
9612927703	1.4401 (316)	76.1 mm	38.1 mm	76.10/73.00x1.60	38.10/34.90x1.60	95.00	81.20	
9612927704	1.4401 (316)	76.1 mm	50.8 mm	76.10/73.00x1.60	50.80/47.60x1.60	95.00	81.20	
9612927705	1.4401 (316)	76.1 mm	63.5 mm	76.10/73.00x1.60	63.50/60.30x1.60	95.00	81.20	
9612927707	1.4401 (316)	101.6 mm	25.4 mm	101.60/97.60x2.00	25.40/22.20x1.60	127.00	107.00	
9612927708	1.4401 (316)	101.6 mm	38.1 mm	101.60/97.60x2.00	38.10/34.90x1.60	127.00	107.00	
9612927709	1.4401 (316)	101.6 mm	50.8 mm	101.60/97.60x2.00	50.80/47.60x1.60	127.00	107.00	
9612927710	1.4401 (316)	101.6 mm	63.5 mm	101.60/97.60x2.00	63.50/60.30x1.60	127.00	107.00	
9612927711	1.4401 (316)	101.6 mm	76.1 mm	101.60/97.60x2.00	76.10/73.00x1.60	127.00	107.00	
9612927712	1.4401 (316)	152.4 mm	50.8 mm	152.4/148.4x2.00	50.80/47.60x1.60	154.00	156.00	
9612927713	1.4401 (316)	152.4 mm	63.5 mm	152.4/148.4x2.00	63.50/60.30x1.60	154.00	156.00	
9612927715	1.4401 (316)	152.4 mm	101.6 mm	152.4/148.4x2.00	101.60/97.60x2.00	154.00	156.00	

ALSIS Code: 5021
Standard: BS 4825

Model: Tee
Design: Short

Item no.	ItemMaterialOnePLM	Size	Dimension (mm)			
			mm	OD/ID x t	L1	
POL (ID=0.8/OD=1.0)						
9612158243	1.4404 (316L)	25.4 mm	25.40/22.20x1.60	44.00	27.00	
9612158244	1.4404 (316L)	38.1 mm	38.10/34.90x1.60	64.00	40.60	
9612158245	1.4404 (316L)	50.8 mm	50.80/47.60x1.60	89.00	54.30	
9612158246	1.4404 (316L)	63.5 mm	63.50/60.30x1.60	114.00	67.00	
9612158247	1.4404 (316L)	76.2 mm	76.20/73.00x1.60	134.00	81.20	
9612158248	1.4404 (316L)	101.6 mm	101.60/97.60x2.00	195.00	107.00	

BS 4825 Threaded Unions IDF

Hygienic fittings

ALSIS Code: 5041
Standard: ISO 2037

Finish: Machined

Item no.	Material	Size	Dimension (mm)					
			mm	OD/ID x t	A	B		
Liner								
9611303835	1.4404 (316L)	101.6 mm	102.10/97.30x2.40	120.70	30.00			
9611309520	1.4404 (316L)	25.0 mm	25.80/22.20x1.80	33.80	21.50			
9611309521	1.4404 (316L)	38.0 mm	38.50/34.90x1.80	47.00	21.50			
9611309522	1.4404 (316L)	51.0 mm	51.20/47.60x1.80	60.50	21.50			
9611309523	1.4404 (316L)	63.5 mm	63.90/60.30x1.80	74.00	21.50			
9611309524	1.4404 (316L)	76.1 mm	76.60/73.00x1.80	87.50	21.50			
Male								
9611303810	1.4404 (316L)	25.0 mm	25.80/22.20x1.80		21.50	37.10 x 1/8		
9611303811	1.4404 (316L)	38.0 mm	38.50/34.90x1.80		22.00	50.60 x 1/8		
9611303812	1.4404 (316L)	51.0 mm	51.20/47.60x1.80		21.50	64.10 x 1/8		
9611303813	1.4404 (316L)	63.5 mm	63.90/60.30x1.80		21.50	77.60 x 1/8		
9611303814	1.4404 (316L)	76.1 mm	76.60/73.00x1.80		21.50	91.10 x 1/8		
9611303815	1.4404 (316L)	101.6 mm	102.10/97.30x2.40		30.00	125.90 x 1/6		
Nut								
9611300053	1.4301 (304)	25.0 mm		46.00	30.00	38.30 x 1/8	30.50	
9611300054	1.4301 (304)	38.0 mm		61.00	30.00	51.80 x 1/8	43.50	
9611300055	1.4301 (304)	51.0 mm		76.00	30.00	65.30 x 1/8	57.00	
9611300056	1.4301 (304)	63.5 mm		91.00	30.00	78.80 x 1/8	70.00	
9611300057	1.4301 (304)	76.1 mm		106.50	30.00	92.30 x 1/8	83.00	
9611303970	1.4301 (304)	101.6 mm		133.40	35.00	126.80 x 1/6	112.00	

Item no.	Material	Size mm	Dimension (mm)				D
			OD/ID x t	A	B	C	
Blank							
9611330629	1.4404 (316L)	25.0 mm		41.30	8.70		
9611330630	1.4404 (316L)	38.0 mm		54.00	8.70		
9611330631	1.4404 (316L)	51.0 mm		66.70	8.70		
9611330632	1.4404 (316L)	63.5 mm		79.40	8.70		
9611330633	1.4404 (316L)	76.1 mm		92.10	8.70		
9611330634	1.4404 (316L)	101.6 mm		117.80	8.70		
Liner							
9611303991	1.4404 (316L)	25.0 mm	25.80/22.20x1.80	41.30	12.70		
9611303992	1.4404 (316L)	38.0 mm	38.50/34.90x1.80	54.00	12.70		
9611303993	1.4404 (316L)	51.0 mm	51.20/47.60x1.80	66.70	12.70		
9611303994	1.4404 (316L)	63.5 mm	63.90/60.60x1.80	79.40	12.70		
9611303995	1.4404 (316L)	76.1 mm	76.60/73.00x1.80	92.10	12.70		
9611303996	1.4404 (316L)	101.6 mm	102.00/97.60x2.20	117.80	12.70		
Male							
9611303880	1.4307 (304L)	25.0 mm	25.80/22.20x1.80		27.00	45.70 x 1/8	
9611303881	1.4307 (304L)	38.0 mm	38.50/34.90x1.80		27.00	58.40 x 1/8	
9611303882	1.4307 (304L)	51.0 mm	51.20/47.60x1.80		27.00	72.70 x 1/6	
9611303883	1.4307 (304L)	63.5 mm	63.90/60.60x1.80		27.00	85.40 x 1/6	
9611303884	1.4307 (304L)	76.1 mm	76.60/73.00x1.80		27.00	98.10 x 1/6	
9611303885	1.4307 (304L)	101.6 mm	102.00/97.60x2.20		31.80	123.80 x 1/6	
9611303890	1.4404 (316L)	25.0 mm	25.80/22.20x1.80		27.00	45.70 x 1/8	
9611303891	1.4404 (316L)	38.0 mm	38.50/34.90x1.80		27.00	58.40 x 1/8	
9611303892	1.4404 (316L)	51.0 mm	51.20/47.60x1.80		27.00	72.70 x 1/6	
9611303893	1.4404 (316L)	63.5 mm	63.90/60.60x1.80		27.00	85.40 x 1/6	
9611303894	1.4404 (316L)	76.1 mm	76.60/73.00x1.80		27.00	98.10 x 1/6	
9611303895	1.4404 (316L)	101.6 mm	102.00/97.60x2.20		31.80	123.80 x 1/6	

ALSIS Code: 5047
Standard: BS 4825

Finish: Machined

Item no.	Material	Size mm	Dimension (mm)				Nut	
			OD/ID x t	A	B	C		D
9611300521	1.4301 (304)	101.6 mm		130.00	22.00	124.40 x 1/6	110.00	
9611300575	1.4301 (304)	25.0 mm		51.00	22.00	46.30 x 1/8	33.30	
9611300576	1.4301 (304)	38.0 mm		65.00	22.00	59.00 x 1/8	46.00	
9611300577	1.4301 (304)	51.0 mm		79.00	22.00	73.30 x 1/6	58.70	
9611300578	1.4301 (304)	63.5 mm		92.00	22.00	86.00 x 1/6	71.40	
9611300579	1.4301 (304)	76.1 mm		105.00	22.00	98.70 x 1/6	84.10	

Item no.	Material	Size	Dimension (mm)			
			mm	OD/ID x t	A	
Liner						
9612513005	1.4404 (316L)	25.4 mm	25.40/22.20x1.60	35.50	7.50	
9612513006	1.4404 (316L)	38.0 mm	38.00/34.80x1.60	54.00	9.00	
9612513007	1.4404 (316L)	51.0 mm	51.00/47.80x1.60	65.00	9.00	
9612513008	1.4404 (316L)	76.1 mm	76.10/72.10x2.00	93.00	10.00	
9612513305	1.4404 (316L)	25.4 mm	25.40/22.20x1.60	35.50	17.00	
9612513306	1.4404 (316L)	38.0 mm	38.00/34.80x1.60	55.00	20.00	
9612513307	1.4404 (316L)	51.0 mm	51.00/47.80x1.60	65.00	20.00	
9612513308	1.4404 (316L)	76.1 mm	76.10/72.10x2.00	93.00	30.00	
Male						
9612512905	1.4404 (316L)	25.4 mm	25.40/22.20x1.60	40.00 x 1/6	15.00	
9612512906	1.4404 (316L)	38.0 mm	38.00/34.80x1.60	60.00 x 1/6	20.00	
9612512907	1.4404 (316L)	51.0 mm	51.00/47.80x1.60	70.00 x 1/6	20.00	
9612512908	1.4404 (316L)	76.1 mm	76.10/72.10x2.00	98.00 x 1/6	24.00	

Item no.	Material	Size	Dimension (mm)			
			OD/ID x t	L	R	
HSF2 (ID=0.8/OD=1.6)						
9615227307	1.4307 (304L)	DN10	13.00/10.00 x 1.50	18.38	26.00	
9615227319	1.4404 (316L)	DN10	13.00/10.00 x 1.50	18.38	26.00	
9615227308	1.4307 (304L)	DN15	19.00/16.00 x 1.50	24.75	35.00	
9615227320	1.4404 (316L)	DN15	19.00/16.00 x 1.50	24.75	35.00	
9615227309	1.4307 (304L)	DN20	23.00/20.00 x 1.50	28.28	40.00	
9615227321	1.4404 (316L)	DN20	23.00/20.00 x 1.50	28.28	40.00	
9615227310	1.4307 (304L)	DN25	29.00/26.00 x 1.50	35.36	50.00	
9615227322	1.4404 (316L)	DN25	29.00/26.00 x 1.50	35.36	50.00	
9615227311	1.4307 (304L)	DN32	35.00/32.00 x 1.50	38.89	55.00	
9615227323	1.4404 (316L)	DN32	35.00/32.00 x 1.50	38.89	55.00	
9615227312	1.4307 (304L)	DN40	41.00/38.00 x 1.50	42.43	60.00	
9615227324	1.4404 (316L)	DN40	41.00/38.00 x 1.50	42.43	60.00	
9615227313	1.4307 (304L)	DN50	53.00/50.00 x 1.50	49.50	70.00	
9615227325	1.4404 (316L)	DN50	53.00/50.00 x 1.50	49.50	70.00	
9615227314	1.4307 (304L)	DN65	70.00/66.00 x 2.00	56.57	80.00	
9615227326	1.4404 (316L)	DN65	70.00/66.00 x 2.00	56.57	80.00	
9615227315	1.4307 (304L)	DN80	85.00/81.00 x 2.00	63.64	90.00	
9615227327	1.4404 (316L)	DN80	85.00/81.00 x 2.00	63.64	90.00	
9615227316	1.4307 (304L)	DN100	104.00/100.00 x 2.00	70.71	100.00	
9615227328	1.4404 (316L)	DN100	104.00/100.00 x 2.00	70.71	100.00	
9615227317	1.4307 (304L)	DN125	129.00/125.00 x 2.00	132.58	187.50	
9615227329	1.4404 (316L)	DN125	129.00/125.00 x 2.00	132.58	187.50	
9615227318	1.4307 (304L)	DN150	154.00/150.00 x 2.00	159.10	225.00	
9615227330	1.4404 (316L)	DN150	154.00/150.00 x 2.00	159.10	225.00	
9615227357	1.4307 (304L)	DN200	204.00/200.00 x 2.00	212.13	300.00	
9615227358	1.4404 (316L)	DN200	204.00/200.00 x 2.00	212.13	300.00	
HSF3 (ID=0.8/OD=0.8)						
9615227331	1.4307 (304L)	DN10	13.00/10.00 x 1.50	18.38	26.00	
9615227343	1.4404 (316L)	DN10	13.00/10.00 x 1.50	18.38	26.00	
9615227344	1.4404 (316L)	DN15	19.00/16.00 x 1.50	24.75	35.00	
9615227332	1.4307 (304L)	DN15	19.00/16.00 x 1.50	24.75	35.00	
9615227345	1.4404 (316L)	DN20	23.00/20.00 x 1.50	28.28	40.00	
9615227333	1.4307 (304L)	DN20	23.00/20.00 x 1.50	28.28	40.00	
9612154611	1.4404 (316L)	DN25	29.00/26.00 x 1.50	35.36	50.00	
9612154642	1.4307 (304L)	DN25	23.00/20.00 x 1.50	35.36	50.00	
9612154643	1.4307 (304L)	DN32	35.00/32.00 x 1.50	38.89	55.00	
9612154612	1.4404 (316L)	DN32	35.00/32.00 x 1.50	38.89	55.00	
9612154613	1.4404 (316L)	DN40	41.00/38.00 x 1.50	42.43	60.00	
9612154644	1.4307 (304L)	DN40	41.00/38.00 x 1.50	42.43	60.00	
9612154614	1.4404 (316L)	DN50	53.00/50.00 x 1.50	49.50	70.00	
9612154645	1.4307 (304L)	DN50	13.00/10.00 x 1.50	49.50	70.00	
9611293861	1.4307 (304L)	DN65	70.00/66.00 x 2.00	56.57	80.00	
9611293862	1.4404 (316L)	DN65	70.00/66.00 x 2.00	56.57	80.00	
9611293871	1.4307 (304L)	DN80	85.00/81.00 x 2.00	63.64	90.00	
9611293872	1.4404 (316L)	DN80	85.00/81.00 x 2.00	63.64	90.00	
9611293881	1.4307 (304L)	DN100	104.00/100.00 x 2.00	70.71	100.00	
9611293882	1.4404 (316L)	DN100	104.00/100.00 x 2.00	70.71	100.00	

Item no.	Material	Size	Dimension (mm)			
			OD/ID x t	L	R	
HSF3 (ID=0.8/OD=0.8)						
9611293892	1.4404 (316L)	DN125	129.00/125.00 x 2.00	132.58	187.50	
9611293891	1.4307 (304L)	DN125	129.00/125.00 x 2.00	132.58	187.50	
9611293902	1.4404 (316L)	DN150	154.00/150.00 x 2.00	159.10	225.00	
9611293901	1.4307 (304L)	DN150	154.00/150.00 x 2.00	159.10	225.00	
9615227359	1.4307 (304L)	DN200	204.00/200.00 x 2.00	212.13	300.00	
9615227360	1.4404 (316L)	DN200	204.00/200.00 x 2.00	212.13	300.00	

Item no.	Material	Size	Dimension (mm)				
			OD/ID x t	L	R	L2	
							BL, HSF2 (ID=0.8/OD=1.6)
9615220137	1.4404 (316L)	DN10	13.00/10.00 x 1.50	51.00	26.00	25.00	
9615220125	1.4307 (304L)	DN10	13.00/10.00 x 1.50	51.00	26.00	25.00	
9615220126	1.4307 (304L)	DN15	19.00/16.00 x 1.50	60.00	35.00	25.00	
9615220138	1.4404 (316L)	DN15	19.00/16.00 x 1.50	60.00	35.00	25.00	
9615220127	1.4307 (304L)	DN20	23.00/20.00 x 1.50	65.00	40.00	25.00	
9615220139	1.4404 (316L)	DN20	23.00/20.00 x 1.50	65.00	40.00	25.00	
9615220128	1.4307 (304L)	DN25	29.00/26.00 x 1.50	90.00	50.00	40.00	
9615220140	1.4404 (316L)	DN25	29.00/26.00 x 1.50	90.00	50.00	40.00	
9615220129	1.4307 (304L)	DN32	35.00/32.00 x 1.50	95.00	55.00	40.00	
9615220141	1.4404 (316L)	DN32	35.00/32.00 x 1.50	95.00	55.00	40.00	
9615220130	1.4307 (304L)	DN40	41.00/38.00 x 1.50	100.00	60.00	40.00	
9615220142	1.4404 (316L)	DN40	41.00/38.00 x 1.50	100.00	60.00	40.00	
9615220131	1.4307 (304L)	DN50	53.00/50.00 x 1.50	110.00	70.00	40.00	
9615220143	1.4404 (316L)	DN50	53.00/50.00 x 1.50	110.00	70.00	40.00	
9615220132	1.4307 (304L)	DN65	70.00/66.00 x 2.00	120.00	80.00	40.00	
9615220144	1.4404 (316L)	DN65	70.00/66.00 x 2.00	120.00	80.00	40.00	
9615220133	1.4307 (304L)	DN80	85.00/81.00 x 2.00	145.00	90.00	55.00	
9615220145	1.4404 (316L)	DN80	85.00/81.00 x 2.00	145.00	90.00	55.00	
9615220134	1.4307 (304L)	DN100	104.00/100.00 x 2.00	155.00	100.00	55.00	
9615220146	1.4404 (316L)	DN100	104.00/100.00 x 2.00	155.00	100.00	55.00	
9615220135	1.4307 (304L)	DN125	129.00/125.00 x 2.00	245.00	187.50	57.50	
9615220147	1.4404 (316L)	DN125	129.00/125.00 x 2.00	245.00	187.50	57.50	
9615220136	1.4307 (304L)	DN150	154.00/150.00 x 2.00	285.00	225.00	60.00	
9615220148	1.4404 (316L)	DN150	154.00/150.00 x 2.00	285.00	225.00	60.00	
9615220175	1.4307 (304L)	DN200	204.00/200.00 x 2.00	340.00	300.00	40.00	
9615220176	1.4404 (316L)	DN200	204.00/200.00 x 2.00	340.00	300.00	40.00	
							BL, HSF3 (ID=0.8/OD=0.8)
9615220149	1.4307 (304L)	DN10	13.00/10.00 x 1.50	51.00	26.00	25.00	
9615220161	1.4404 (316L)	DN10	13.00/10.00 x 1.50	51.00	26.00	25.00	
9615220150	1.4307 (304L)	DN15	19.00/16.00 x 1.50	60.00	35.00	25.00	
9615220162	1.4404 (316L)	DN15	19.00/16.00 x 1.50	60.00	35.00	25.00	
9615220151	1.4307 (304L)	DN20	23.00/20.00 x 1.50	65.00	40.00	25.00	
9615220163	1.4404 (316L)	DN20	23.00/20.00 x 1.50	65.00	40.00	25.00	
9615220152	1.4307 (304L)	DN25	29.00/26.00 x 1.50	90.00	50.00	40.00	
9615220164	1.4404 (316L)	DN25	29.00/26.00 x 1.50	90.00	50.00	40.00	
9615220153	1.4307 (304L)	DN32	35.00/32.00 x 1.50	95.00	55.00	40.00	
9615220165	1.4404 (316L)	DN32	35.00/32.00 x 1.50	95.00	55.00	40.00	
9615220154	1.4307 (304L)	DN40	41.00/38.00 x 1.50	100.00	60.00	40.00	
9615220166	1.4404 (316L)	DN40	41.00/38.00 x 1.50	100.00	60.00	40.00	
9615220155	1.4307 (304L)	DN50	53.00/50.00 x 1.50	110.00	70.00	40.00	
9615220167	1.4404 (316L)	DN50	53.00/50.00 x 1.50	110.00	70.00	40.00	
9615220156	1.4307 (304L)	DN65	70.00/66.00 x 2.00	120.00	80.00	40.00	
9615220168	1.4404 (316L)	DN65	70.00/66.00 x 2.00	120.00	80.00	40.00	
9615220157	1.4307 (304L)	DN80	85.00/81.00 x 2.00	145.00	90.00	55.00	
9615220169	1.4404 (316L)	DN80	85.00/81.00 x 2.00	145.00	90.00	55.00	
9615220158	1.4307 (304L)	DN100	104.00/100.00 x 2.00	155.00	100.00	55.00	
9615220170	1.4404 (316L)	DN100	104.00/100.00 x 2.00	155.00	100.00	55.00	

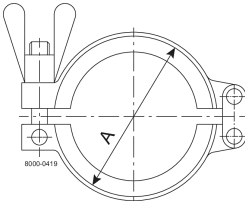
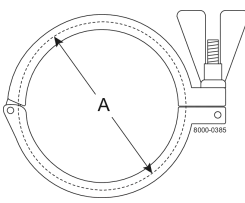
Item no.	Material	Size	Dimension (mm)				
			OD/ID x t	L	R	L2	
							BL, HSF3 (ID=0.8/OD=0.8)
9615220159	1.4307 (304L)	DN125	129.00/125.00 x 2.00	245.00	187.50	57.50	
9615220171	1.4404 (316L)	DN125	129.00/125.00 x 2.00	245.00	187.50	57.50	
9615220160	1.4307 (304L)	DN150	154.00/150.00 x 2.00	285.00	225.00	60.00	
9615220172	1.4404 (316L)	DN150	154.00/150.00 x 2.00	285.00	225.00	60.00	
9615220177	1.4307 (304L)	DN200	204.00/200.00 x 2.00	340.00	300.00	40.00	
9615220178	1.4404 (316L)	DN200	204.00/200.00 x 2.00	340.00	300.00	40.00	
							BS, HSF2 (ID=0.8/OD=1.6)
9615220205	1.4307 (304L)	DN10	13.00/10.00 x 1.50	26.00	26.00		
9615220217	1.4404 (316L)	DN10	13.00/10.00 x 1.50	26.00	26.00		
9615220206	1.4307 (304L)	DN15	19.00/16.00 x 1.50	35.00	35.00		
9615220218	1.4404 (316L)	DN15	19.00/16.00 x 1.50	35.00	35.00		
9615220207	1.4307 (304L)	DN20	23.00/20.00 x 1.50	40.00	40.00		
9615220219	1.4404 (316L)	DN20	23.00/20.00 x 1.50	40.00	40.00		
9615220208	1.4307 (304L)	DN25	29.00/26.00 x 1.50	50.00	50.00		
9615220220	1.4404 (316L)	DN25	29.00/26.00 x 1.50	50.00	50.00		
9615220209	1.4307 (304L)	DN32	35.00/32.00 x 1.50	55.00	55.00		
9615220221	1.4404 (316L)	DN32	35.00/32.00 x 1.50	55.00	55.00		
9615220210	1.4307 (304L)	DN40	41.00/38.00 x 1.50	60.00	60.00		
9615220222	1.4404 (316L)	DN40	41.00/38.00 x 1.50	60.00	60.00		
9615220211	1.4307 (304L)	DN50	53.00/50.00 x 1.50	70.00	70.00		
9615220223	1.4404 (316L)	DN50	53.00/50.00 x 1.50	70.00	70.00		
9615220212	1.4307 (304L)	DN65	70.00/66.00 x 2.00	80.00	80.00		
9615220224	1.4404 (316L)	DN65	70.00/66.00 x 2.00	80.00	80.00		
9615220213	1.4307 (304L)	DN80	85.00/81.00 x 2.00	90.00	90.00		
9615220225	1.4404 (316L)	DN80	85.00/81.00 x 2.00	90.00	90.00		
9615220214	1.4307 (304L)	DN100	104.00/100.00 x 2.00	100.00	100.00		
9615220226	1.4404 (316L)	DN100	104.00/100.00 x 2.00	100.00	100.00		
9615220215	1.4307 (304L)	DN125	129.00/125.00 x 2.00	187.50	187.50		
9615220227	1.4404 (316L)	DN125	129.00/125.00 x 2.00	187.50	187.50		
9615220216	1.4307 (304L)	DN150	154.00/150.00 x 2.00	225.00	225.00		
9615220228	1.4404 (316L)	DN150	154.00/150.00 x 2.00	225.00	225.00		
9615220231	1.4307 (304L)	DN200	204.00/200.00 x 2.00	300.00	300.00		
9615220232	1.4404 (316L)	DN200	204.00/200.00 x 2.00	300.00	300.00		
							BS, HSF3 (ID=0.8/OD=0.8)
9612150508	1.4404 (316L)	DN10	13.00/10.00 x 1.50	26.00	26.00		
9612150558	1.4307 (304L)	DN10	13.00/10.00 x 1.50	26.00	26.00		
9612150509	1.4404 (316L)	DN15	19.00/16.00 x 1.50	35.00	35.00		
9612150559	1.4307 (304L)	DN15	19.00/16.00 x 1.50	35.00	35.00		
9612150510	1.4404 (316L)	DN20	23.00/20.00 x 1.50	40.00	40.00		
9612150560	1.4307 (304L)	DN20	23.00/20.00 x 1.50	40.00	40.00		
9612150511	1.4404 (316L)	DN25	29.00/26.00 x 1.50	50.00	50.00		
9612150561	1.4307 (304L)	DN25	29.00/26.00 x 1.50	50.00	50.00		
9612150512	1.4404 (316L)	DN32	35.00/32.00 x 1.50	55.00	55.00		
9612150562	1.4307 (304L)	DN32	35.00/32.00 x 1.50	55.00	55.00		
9612150513	1.4404 (316L)	DN40	41.00/38.00 x 1.50	60.00	60.00		

Item no.	Material	Size	Dimension (mm)			
			OD/ID x t	L	R	L2
BS, HSF3 (ID=0.8/OD=0.8)						
9612150563	1.4307 (304L)	DN40	41.00/38.00 x 1.50	60.00	60.00	
9612150514	1.4404 (316L)	DN50	53.00/50.00 x 1.50	70.00	70.00	
9612150564	1.4307 (304L)	DN50	53.00/50.00 x 1.50	70.00	70.00	
9611301066	1.4307 (304L)	DN65	70.00/66.00 x 2.00	80.00	80.00	
9611309171	1.4404 (316L)	DN65	70.00/66.00 x 2.00	80.00	80.00	
9611301067	1.4307 (304L)	DN80	85.00/81.00 x 2.00	90.00	90.00	
9611309181	1.4404 (316L)	DN80	85.00/81.00 x 2.00	90.00	90.00	
9611301068	1.4307 (304L)	DN100	104.00/100.00 x 2.00	100.00	100.00	
9611309191	1.4404 (316L)	DN100	104.00/100.00 x 2.00	100.00	100.00	
9611309200	1.4307 (304L)	DN125	129.00/125.00 x 2.00	187.50	187.50	
9611309201	1.4404 (316L)	DN125	129.00/125.00 x 2.00	187.50	187.50	
9611309210	1.4307 (304L)	DN150	154.00/150.00 x 2.00	225.00	225.00	
9611309211	1.4404 (316L)	DN150	154.00/150.00 x 2.00	225.00	225.00	
9615220233	1.4307 (304L)	DN200	204.00/200.00 x 2.00	300.00	300.00	
9615220234	1.4404 (316L)	DN200	204.00/200.00 x 2.00	300.00	300.00	

Item no.	Material	Size	Dimension (mm)				
			A	B	C	D	
							BBKS collar
9615331601	1.4404 (316L)	DN10	34.00	22.40	11.50	25.00	
9615331602	1.4404 (316L)	DN15	34.00	28.40	11.50	25.00	
9615331603	1.4404 (316L)	DN20	50.50	32.40	11.50	42.00	
9615331604	1.4404 (316L)	DN25	50.50	38.40	11.50	42.00	
9615331605	1.4404 (316L)	DN32	50.50	47.70	11.50	42.00	
9615331606	1.4404 (316L)	DN40	64.00	53.70	11.50	54.00	
9615331607	1.4404 (316L)	DN50	77.50	65.70	13.50	62.00	
9615331608	1.4404 (316L)	DN65	91.00	81.70	13.50	78.00	
9615331609	1.4404 (316L)	DN80	106.00	97.70	13.50	93.00	
9615331610	1.4404 (316L)	DN100	130.00	116.70	13.50	115.00	
							BNKS groove
9615331701	1.4404 (316L)	DN10	34.00	22.40	13.00	25.00	
9615331702	1.4404 (316L)	DN15	34.00	28.40	13.00	25.00	
9615331703	1.4404 (316L)	DN20	50.50	32.40	13.00	42.00	
9615331704	1.4404 (316L)	DN25	50.50	38.40	13.00	42.00	
9615331705	1.4404 (316L)	DN32	50.50	47.70	13.00	42.00	
9615331706	1.4404 (316L)	DN40	64.00	53.70	13.00	62.00	
9615331707	1.4404 (316L)	DN50	77.50	65.70	15.00	62.00	
9615331708	1.4404 (316L)	DN65	91.00	81.70	15.00	78.00	
9615331709	1.4404 (316L)	DN80	106.00	97.70	15.00	93.00	
9615331710	1.4404 (316L)	DN100	130.00	116.70	15.00	115.00	

Item no.	Material	Size	Dimension (mm)				
			A	B	C	D	
BBF collar							
9615331203	1.4404 (316L)	DN10	54.00	37.00	22.40	10.00	
9615331204	1.4404 (316L)	DN15	59.00	42.00	28.40	10.00	
9615331205	1.4404 (316L)	DN20	64.00	47.00	32.40	10.00	
9615331206	1.4404 (316L)	DN25	70.00	53.00	38.40	10.00	
9615331207	1.4404 (316L)	DN32	76.00	59.00	47.70	10.00	
9615331208	1.4404 (316L)	DN40	82.00	65.00	53.70	10.00	
9615331209	1.4404 (316L)	DN50	94.00	77.00	65.70	10.00	
9615331210	1.4404 (316L)	DN65	113.00	95.00	81.70	10.00	
9615331211	1.4404 (316L)	DN80	133.00	112.00	97.70	12.00	
9615331212	1.4404 (316L)	DN100	159.00	137.00	116.70	14.00	
9615331213	1.4404 (316L)	DN125	183.00	161.00	141.70	14.00	
9615331214	1.4404 (316L)	DN150	213.00	188.00	167.70	16.00	
BNF groove							
9615331303	1.4404 (316L)	DN10	54.00	37.00	22.30	11.50	
9615331304	1.4404 (316L)	DN15	59.00	42.00	28.30	11.50	
9615331305	1.4404 (316L)	DN20	64.00	47.00	32.30	11.50	
9615331306	1.4404 (316L)	DN25	70.00	53.00	38.30	11.50	
9615331307	1.4404 (316L)	DN32	76.00	59.00	47.60	11.50	
9615331308	1.4404 (316L)	DN40	82.00	65.00	53.60	11.50	
9615331309	1.4404 (316L)	DN50	94.00	77.00	65.60	11.50	
9615331310	1.4404 (316L)	DN65	113.00	95.00	81.60	11.50	
9615331311	1.4404 (316L)	DN80	133.00	112.00	97.60	13.50	
9615331312	1.4404 (316L)	DN100	159.00	137.00	116.60	15.50	
9615331313	1.4404 (316L)	DN125	183.00	161.00	141.60	15.00	
9615331314	1.4404 (316L)	DN150	213.00	188.00	167.60	17.50	

Item no.	Material	Size	Dimension (mm)				
			A	B	D	E	
							BD liner
9611306470	1.4307 (304L)	DN10	22.50	6.00	18.00	9.00	
9612152413	1.4404 (316L)	DN10	22.50	6.00	18.00	9.00	
9611306480	1.4307 (304L)	DN15	28.50	6.00	24.00	9.00	
9612152414	1.4404 (316L)	DN15	28.50	6.00	24.00	9.00	
9611291111	1.4307 (304L)	DN20	36.50	8.00	30.00	11.00	
9612152415	1.4404 (316L)	DN20	36.50	8.00	30.00	11.00	
3131800351	1.4307 (304L)	DN25	44.00	10.00	35.00	13.00	
9612152416	1.4404 (316L)	DN25	44.00	10.00	35.00	13.00	
3131800352	1.4307 (304L)	DN32	50.00	10.00	41.00	13.00	
9612152417	1.4404 (316L)	DN32	50.00	10.00	41.00	13.00	
3131800353	1.4307 (304L)	DN40	56.00	10.00	48.00	13.00	
9612152418	1.4404 (316L)	DN40	56.00	10.00	48.00	13.00	
3131800354	1.4307 (304L)	DN50	68.50	11.00	61.00	14.00	
9612152419	1.4404 (316L)	DN50	68.50	11.00	61.00	14.00	
3131800355	1.4307 (304L)	DN65	86.00	12.00	79.00	16.00	
9612152420	1.4404 (316L)	DN65	86.00	12.00	79.00	16.00	
3131800356	1.4307 (304L)	DN80	100.0	12.00	93.00	16.00	
9612152422	1.4404 (316L)	DN80	100.0	12.00	93.00	16.00	
3131800358	1.4307 (304L)	DN100	121.00	15.00	114.00	20.00	
9612152423	1.4404 (316L)	DN100	121.00	15.00	114.00	20.00	
9611306500	1.4307 (304L)	DN125	150.00	17.00	137.00	22.00	
9612152424	1.4404 (316L)	DN125	150.00	17.00	137.00	22.00	
9612152425	1.4404 (316L)	DN150	176.00	18.00	163.00	24.00	
9611306510	1.4307 (304L)	DN150	176.00	18.00	163.00	24.00	

Item no.	Material	Size	Dimension (mm)	
			A	
CR WN 2HINGE				
9611993113	304	DN10-20	37.00	
9611993114	304	DN80	109.00	
9611994192	304	DN100	134.00	
9611993203	304	DN125	159.00	
9611993204	304	DN150	187.00	
CR WN DIN				
9611994458	304	DN10	37.50	
9611994459	304	DN80	109.50	

Item no.	Material	Size	Dimension (mm)			
			OD/ID x t	A	B	
						BKS collar
9613403951	1.4404 (316L)	DN10	13.00/10.00 x 1.50	34.00	38.00	
9613403952	1.4404 (316L)	DN15	19.00/16.00 x 1.50	34.00	38.00	
9613403953	1.4404 (316L)	DN20	23.00/20.00 x 1.50	50.50	38.00	
9613403954	1.4404 (316L)	DN25	29.00/26.00 x 1.50	50.50	38.50	
9613403955	1.4404 (316L)	DN32	35.00/32.00 x 1.50	50.50	44.00	
9613403956	1.4404 (316L)	DN40	41.00/38.00 x 1.50	64.00	44.00	
9613403957	1.4404 (316L)	DN50	53.00/50.00 x 1.50	76.20	44.50	
9613403958	1.4404 (316L)	DN65	70.00/66.00 x 2.00	91.00	56.50	
9613403959	1.4404 (316L)	DN80	85.00/81.00 x 2.00	106.00	58.50	
9613403960	1.4404 (316L)	DN100	104.00/100.00 x 2.00	130.00	60.0	
9613403941	1.4404 (316L)	DN10	13.00/10.00 x 1.50	34.00	39.50	
9613403942	1.4404 (316L)	DN15	19.00/16.00 x 1.50	34.00	39.50	
9613403943	1.4404 (316L)	DN20	23.00/20.00 x 1.50	50.50	39.50	
9613403944	1.4404 (316L)	DN25	29.00/26.00 x 1.50	50.50	40.00	
9613403945	1.4404 (316L)	DN32	35.00/32.00 x 1.50	50.50	45.50	
9613403946	1.4404 (316L)	DN40	41.00/38.00 x 1.50	64.00	45.50	
9613403947	1.4404 (316L)	DN50	53.00/50.00 x 1.50	76.20	46.00	
9613403948	1.4404 (316L)	DN65	70.00/66.00 x 2.00	91.00	58.00	
9613403949	1.4404 (316L)	DN80	85.00/81.00 x 2.00	106.00	60.0	
9613403950	1.4404 (316L)	DN100	104.00/100.00 x 2.00	130.00	61.50	

ALSIS Code: 5054, 5035

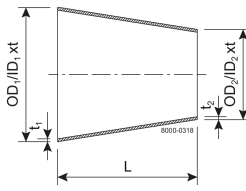
Model: Blind
 Standard: DIN 32676
 Finish: H3 (ID=0.8/OD=1.0)

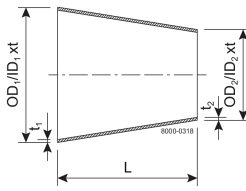
Item no.	Material	Size	Dimension (mm)				L
			OD/ID x t	A	B	D	
B							
9612935302	1.4404 (316L)	DN10-20		34.00	6.00		
9612935303	1.4404 (316L)	DN25-40		50.50	6.00		
9612935304	1.4404 (316L)	DN50		64.00	6.00		
9612935305	1.4404 (316L)	DN65		91.00	7.00		
9612935306	1.4404 (316L)	DN80		106.00	8.00		
9612935307	1.4404 (316L)	DN100		119.00	8.00		
9612935308	1.4404 (316L)	DN125		155.00	12.00		
9612935301	1.4404 (316L)	DN150		183.00	12.00		
D							
9613470001	EPDM (E)	DN10		36.20	5.50	10.20	
9613470002	EPDM (E)	DN15		36.20	5.50	16.20	
9613470003	EPDM (E)	DN20		36.20	5.50	20.20	
9613470004	EPDM (E)	DN25		52.70	5.50	26.20	
9613470005	EPDM (E)	DN32		52.70	5.50	32.20	
9613470006	EPDM (E)	DN40		52.70	5.50	38.20	
9613470007	EPDM (E)	DN50		66.20	5.50	50.20	
9613470008	EPDM (E)	DN65		93.20	5.50	66.20	
9613470009	EPDM (E)	DN80		108.20	5.50	81.20	
9613470010	EPDM (E)	DN100		121.20	5.50	100.20	
9611993205	EPDM (E)	DN125		157.20	5.50	125.20	
9611993206	EPDM (E)	DN150		185.20	5.50	150.20	
9611994182	FPM	DN10		36.20	5.50	10.20	
9611994183	FPM	DN15		36.20	5.50	16.20	
9611994184	FPM	DN20		36.20	5.50	20.20	
9611994185	FPM	DN25		52.70	5.50	26.20	
9611994186	FPM	DN32		52.70	5.50	32.20	
9611994187	FPM	DN40		52.70	5.50	38.20	
9611994188	FPM	DN50		66.20	5.50	50.20	
9611994189	FPM	DN65		93.20	5.50	66.20	
9611994190	FPM	DN80		108.20	5.50	81.20	
9611994191	FPM	DN100		121.20	5.50	100.20	
9611995100	FPM	DN125		157.20	5.50	125.20	
9611993210	FPM	DN150		185.20	5.50	150.20	
9611991999	NBR	DN10		36.20	5.50	10.20	
9611992000	NBR	DN15		36.20	5.50	16.20	
9611992001	NBR	DN20		36.20	5.50	20.20	
9611992002	NBR	DN25		52.70	5.50	26.20	
9611992003	NBR	DN32		52.70	5.50	32.20	
9611992004	NBR	DN40		52.70	5.50	38.20	

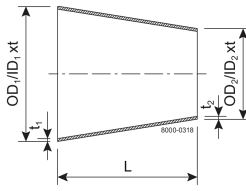
Item no.	Material	Size	Dimension (mm)				L	D
			OD/ID x t	A	B	D		
9611992005	NBR	DN50		66.20	5.50	50.20		
9611992006	NBR	DN65		93.20	5.50	66.20		
9611992007	NBR	DN80		108.20	5.50	81.20		
9611992008	NBR	DN100		121.20	5.50	100.20		
9612991586	PTFE (G)	DN10		36.20	5.50	10.20		
9612991587	PTFE (G)	DN15		36.20	5.50	16.20		
9612991588	PTFE (G)	DN20		36.20	5.50	20.20		
9612991589	PTFE (G)	DN25		52.70	5.50	26.20		
9612991590	PTFE (G)	DN32		52.70	5.50	32.20		
9612991591	PTFE (G)	DN40		52.70	5.50	38.20		
9612991592	PTFE (G)	DN50		66.20	5.50	50.20		
9612991593	PTFE (G)	DN65		93.20	5.50	66.20		
9612991594	PTFE (G)	DN80		108.20	5.50	81.20		
9612991595	PTFE (G)	DN100		121.20	5.50	100.20		

Item no.	Material	Size	Dimension (mm)				L
			OD/ID x t	A	B	D	
D certificate							
9611992009	EPDM (E)	DN10		36.20	5.50	10.20	
9611992010	EPDM (E)	DN15		36.20	5.50	16.20	
9611992011	EPDM (E)	DN20		36.20	5.50	20.20	
9611992012	EPDM (E)	DN25		52.70	5.50	26.20	
9611992013	EPDM (E)	DN32		52.70	5.50	32.20	
9611992014	EPDM (E)	DN40		52.70	5.50	38.20	
9611992015	EPDM (E)	DN50		66.20	5.50	50.20	
9611992016	EPDM (E)	DN65		93.20	5.50	66.20	
9611992017	EPDM (E)	DN80		108.20	5.50	81.20	
9611992018	EPDM (E)	DN100		121.20	5.50	100.20	
KK short							
9612156101	1.4307 (304L)	DN10	13.00/10.00 x 1.50	34.00	18.00		
9612156102	1.4307 (304L)	DN15	19.00/16.00 x 1.50	34.00	18.00		
9612156103	1.4307 (304L)	DN20	23.00/20.00 x 1.50	34.00	18.00		
9612156104	1.4307 (304L)	DN25	29.00/26.00 x 1.50	50.50	21.50		
9612156105	1.4307 (304L)	DN32	35.00/32.00 x 1.50	50.50	21.50		
9612156106	1.4307 (304L)	DN40	41.00/38.00 x 1.50	50.50	21.50		
9612156107	1.4307 (304L)	DN50	53.00/50.00 x 1.50	64.00	21.50		
9612156108	1.4307 (304L)	DN65	70.00/66.00 x 2.00	91.00	28.00		
9612156109	1.4307 (304L)	DN80	85.00/81.00 x 2.00	106.00	28.00		
9612156110	1.4307 (304L)	DN100	104.00/100.00 x 2.00	119.00	28.00		
9612156141	1.4307 (304L)	DN125	129.00/125.00 x 2.00	155.00	28.00		
9612156142	1.4307 (304L)	DN150	154.00/150.00 x 2.00	183.00	28.00		
9612156121	1.4404 (316L)	DN10	13.00/10.00 x 1.50	34.00	18.00		
9612156122	1.4404 (316L)	DN15	19.00/16.00 x 1.50	34.00	18.00		
9612156123	1.4404 (316L)	DN20	23.00/20.00 x 1.50	34.00	18.00		
9612156124	1.4404 (316L)	DN25	29.00/26.00 x 1.50	50.50	21.50		
9612156125	1.4404 (316L)	DN32	35.00/32.00 x 1.50	50.50	21.50		
9612156126	1.4404 (316L)	DN40	41.00/38.00 x 1.50	50.50	21.50		
9612156127	1.4404 (316L)	DN50	53.00/50.00 x 1.50	64.00	21.50		
9612156128	1.4404 (316L)	DN65	70.00/66.00 x 2.00	91.00	28.00		
9612156129	1.4404 (316L)	DN80	85.00/81.00 x 2.00	106.00	28.00		
9612156130	1.4404 (316L)	DN100	104.00/100.00 x 2.00	119.00	28.00		
9612156145	1.4404 (316L)	DN125	129.00/125.00 x 2.00	155.00	28.00		

Item no.	Material	Size	Dimension (mm)					
			OD/ID x t	A	B	D		L
KK short								
9612156146	1.4404 (316L)	DN150	154.00/150.00 x 2.00	183.00	28.00			
KL long								
9613444001	1.4404 (316L)	DN10	13.00/10.00 x 1.50	34.00	28.60	23.00		
9613444002	1.4404 (316L)	DN15	19.00/16.00 x 1.50	34.00	28.60	24.00		
9613444003	1.4404 (316L)	DN20	23.00/20.00 x 1.50	34.00	28.60	25.00		
9613444004	1.4404 (316L)	DN25	29.00/26.00 x 1.50	50.50	36.00	30.00		
9613444005	1.4404 (316L)	DN32	35.00/32.00 x 1.50	50.50	36.00	32.00		
9613444006	1.4404 (316L)	DN40	41.00/38.00 x 1.50	50.50	36.00	33.00		
9613444007	1.4404 (316L)	DN50	53.00/50.00 x 1.50	64.00	36.00	33.00		
9613444008	1.4404 (316L)	DN65	70.00/66.00 x 2.00	91.00	48.00	42.00		
9613444009	1.4404 (316L)	DN80	85.00/81.00 x 2.00	106.00	48.00	42.00		
9613444010	1.4404 (316L)	DN100	104.00/100.00 x 2.00	119.00	48.00	44.00		

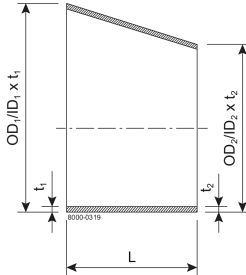
Item no.	Material	Size	Dimension (mm)			HSF2 (ID=0.8/OD=1.6)
			OD1/ID1 x t1	OD2/ID2 x t2	L	
9615226901	1.4307 (304L)	DN15	19.00/16.00 x 1.50	13.00/10.00 x 1.50	11.00	
9615226902	1.4307 (304L)	DN20	23.00/20.00 x 1.50	13.00/10.00 x 1.50	18.00	
9615226903	1.4307 (304L)	DN20	23.00/20.00 x 1.50	19.00/16.00 x 1.50	7.00	
9615226906	1.4307 (304L)	DN25	29.00/26.00 x 1.50	23.00/20.00 x 1.50	11.00	
9615226904	1.4307 (304L)	DN25	29.00/26.00 x 1.50	13.00/10.00 x 1.50	29.00	
9615226905	1.4307 (304L)	DN25	29.00/26.00 x 1.50	19.00/16.00 x 1.50	18.00	
9615226907	1.4307 (304L)	DN32	35.00/32.00 x 1.50	19.00/16.00 x 1.50	29.00	
9615226908	1.4307 (304L)	DN32	35.00/32.00 x 1.50	23.00/20.00 x 1.50	22.00	
9615226909	1.4307 (304L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	11.00	
9615226910	1.4307 (304L)	DN40	41.00/38.00 x 1.50	19.00/16.00 x 1.50	40.00	
9615226911	1.4307 (304L)	DN40	41.00/38.00 x 1.50	23.00/20.00 x 1.50	33.00	
9615226912	1.4307 (304L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	22.00	
9615226913	1.4307 (304L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	11.00	
9615226914	1.4307 (304L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	44.00	
9615226915	1.4307 (304L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	33.00	
9615226916	1.4307 (304L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	22.00	
9615226917	1.4307 (304L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	73.00	
9615226918	1.4307 (304L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	62.00	
9615226919	1.4307 (304L)	DN65	70.00/66.00 x 2.00	42.00/38.00 x 2.00	51.00	
9615226920	1.4307 (304L)	DN65	70.00/66.00 x 2.00	54.00/50.00 x 2.00	29.00	
9615226921	1.4307 (304L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	100.00	
9615226922	1.4307 (304L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	89.00	
9615226923	1.4307 (304L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	78.00	
9615226924	1.4307 (304L)	DN80	85.00/81.00 x 2.00	54.00/50.00 x 2.00	56.00	
9615226925	1.4307 (304L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	27.00	
9615226926	1.4307 (304L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	134.00	
9615226927	1.4307 (304L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	123.00	
9615226928	1.4307 (304L)	DN100	104.00/100.00 x 2.00	42.00/38.00 x 2.00	112.00	
9615226929	1.4307 (304L)	DN100	104.00/100.00 x 2.00	54.00/50.00 x 2.00	90.00	
9615226930	1.4307 (304L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	61.00	
9615226931	1.4307 (304L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	34.00	
9615226932	1.4307 (304L)	DN125	129.00/125.00 x 2.00	29.00/26.00 x 1.50	179.00	
9615226933	1.4307 (304L)	DN125	129.00/125.00 x 2.00	35.00/32.00 x 1.50	168.00	
9615226934	1.4307 (304L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	157.00	
9615226935	1.4307 (304L)	DN125	129.00/125.00 x 2.00	54.00/50.00 x 2.00	135.00	
9615226936	1.4307 (304L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	106.00	
9615226937	1.4307 (304L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	79.00	
9615226938	1.4307 (304L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	45.00	
9615226939	1.4307 (304L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	151.00	
9615226940	1.4307 (304L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	124.00	
9615226941	1.4307 (304L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	90.00	
9615226942	1.4307 (304L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	45.00	
9615226943	1.4307 (304L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	250.00	
9615226944	1.4307 (304L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	222.00	
9615226945	1.4307 (304L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	186.00	
9615226946	1.4307 (304L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	140.00	
9615226947	1.4307 (304L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	93.00	

Item no.	Material	Size	Dimension (mm)			HSF2 (ID=0.8/OD=1.6)
			OD1/ID1 x t1	OD2/ID2 x t2	L	
9615332601	1.4404 (316L)	DN15	19.00/16.00 x 1.50	13.00/10.00 x 1.50	11.00	
9615332602	1.4404 (316L)	DN20	23.00/20.00 x 1.50	13.00/10.00 x 1.50	18.00	
9615332603	1.4404 (316L)	DN20	23.00/20.00 x 1.50	19.00/16.00 x 1.50	7.00	
9615332604	1.4404 (316L)	DN25	29.00/26.00 x 1.50	13.00/10.00 x 1.50	29.00	
9615332605	1.4404 (316L)	DN25	29.00/26.00 x 1.50	19.00/16.00 x 1.50	18.00	
9615332606	1.4404 (316L)	DN25	29.00/26.00 x 1.50	23.00/20.00 x 1.50	11.00	
9615332607	1.4404 (316L)	DN32	35.00/32.00 x 1.50	19.00/16.00 x 1.50	29.00	
9615332608	1.4404 (316L)	DN32	35.00/32.00 x 1.50	23.00/20.00 x 1.50	22.00	
9615332609	1.4404 (316L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	11.00	
9615332610	1.4404 (316L)	DN40	41.00/38.00 x 1.50	19.00/16.00 x 1.50	40.00	
9615332611	1.4404 (316L)	DN40	41.00/38.00 x 1.50	23.00/20.00 x 1.50	33.00	
9615332612	1.4404 (316L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	22.00	
9615332613	1.4404 (316L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	11.00	
9615332614	1.4404 (316L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	44.00	
9615332615	1.4404 (316L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	33.00	
9615332616	1.4404 (316L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	22.00	
9615332617	1.4404 (316L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	73.00	
9615332618	1.4404 (316L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	62.00	
9615332619	1.4404 (316L)	DN65	70.00/66.00 x 2.00	42.00/38.00 x 2.00	51.00	
9615332620	1.4404 (316L)	DN65	70.00/66.00 x 2.00	54.00/50.00 x 2.00	29.00	
9615332621	1.4404 (316L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	100.00	
9615332622	1.4404 (316L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	89.00	
9615332623	1.4404 (316L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	78.00	
9615332624	1.4404 (316L)	DN80	85.00/81.00 x 2.00	54.00/50.00 x 2.00	56.00	
9615332625	1.4404 (316L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	27.00	
9615332626	1.4404 (316L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	134.00	
9615332627	1.4404 (316L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	123.00	
9615332628	1.4404 (316L)	DN100	104.00/100.00 x 2.00	42.00/38.00 x 2.00	112.00	
9615332629	1.4404 (316L)	DN100	104.00/100.00 x 2.00	54.00/50.00 x 2.00	90.00	
9615332630	1.4404 (316L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	61.00	
9615332631	1.4404 (316L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	34.00	
9615332632	1.4404 (316L)	DN125	129.00/125.00 x 2.00	29.00/26.00 x 1.50	179.00	
9615332633	1.4404 (316L)	DN125	129.00/125.00 x 2.00	35.00/32.00 x 1.50	168.00	
9615332634	1.4404 (316L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	157.00	
9615332635	1.4404 (316L)	DN125	129.00/125.00 x 2.00	54.00/50.00 x 2.00	135.00	
9615332636	1.4404 (316L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	106.00	
9615332637	1.4404 (316L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	79.00	
9615332638	1.4404 (316L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	45.00	
9615332639	1.4404 (316L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	151.00	
9615332640	1.4404 (316L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	124.00	
9615332641	1.4404 (316L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	90.00	
9615332642	1.4404 (316L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	45.00	
9615332643	1.4404 (316L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	250.00	
9615332644	1.4404 (316L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	222.00	
9615332645	1.4404 (316L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	186.00	
9615332646	1.4404 (316L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	140.00	
9615332647	1.4404 (316L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	93.00	

Item no.	Material	Size	Dimension (mm)			HSF3 (ID=0.8/OD=0.8)
			OD1/ID1 x t1	OD2/ID2 x t2	L	
9615227001	1.4307 (304L)	DN15	19.00/16.00 x 1.50	13.00/10.00 x 1.50	11.00	
9615227002	1.4307 (304L)	DN20	23.00/20.00 x 1.50	13.00/10.00 x 1.50	18.00	
9615227003	1.4307 (304L)	DN20	23.00/20.00 x 1.50	19.00/16.00 x 1.50	7.00	
9615227004	1.4307 (304L)	DN25	29.00/26.00 x 1.50	13.00/10.00 x 1.50	29.00	
9615227005	1.4307 (304L)	DN25	29.00/26.00 x 1.50	19.00/16.00 x 1.50	18.00	
9615227006	1.4307 (304L)	DN25	29.00/26.00 x 1.50	23.00/20.00 x 1.50	11.00	
9615227009	1.4307 (304L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	11.00	
9615227007	1.4307 (304L)	DN32	35.00/32.00 x 1.50	19.00/16.00 x 1.50	29.00	
9615227008	1.4307 (304L)	DN32	35.00/32.00 x 1.50	23.00/20.00 x 1.50	22.00	
9615227012	1.4307 (304L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	22.00	
9615227013	1.4307 (304L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	11.00	
9615227011	1.4307 (304L)	DN40	41.00/38.00 x 1.50	23.00/20.00 x 1.50	33.00	
9615227010	1.4307 (304L)	DN40	41.00/38.00 x 1.50	19.00/16.00 x 1.50	40.00	
9615227014	1.4307 (304L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	44.00	
9615227015	1.4307 (304L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	33.00	
9615227016	1.4307 (304L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	22.00	
9615227019	1.4307 (304L)	DN65	70.00/66.00 x 2.00	42.00/38.00 x 2.00	51.00	
9615227020	1.4307 (304L)	DN65	70.00/66.00 x 2.00	54.00/50.00 x 2.00	29.00	
9615227017	1.4307 (304L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	73.00	
9615227018	1.4307 (304L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	62.00	
9615227024	1.4307 (304L)	DN80	85.00/81.00 x 2.00	54.00/50.00 x 2.00	56.00	
9615227025	1.4307 (304L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	27.00	
9615227021	1.4307 (304L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	100.00	
9615227022	1.4307 (304L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	89.00	
9615227023	1.4307 (304L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	78.00	
9615227029	1.4307 (304L)	DN100	104.00/100.00 x 2.00	54.00/50.00 x 2.00	90.00	
9615227030	1.4307 (304L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	61.00	
9615227031	1.4307 (304L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	34.00	
9615227027	1.4307 (304L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	123.00	
9615227026	1.4307 (304L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	134.00	
9615227028	1.4307 (304L)	DN100	104.00/100.00 x 2.00	42.00/38.00 x 2.00	112.00	
9615227035	1.4307 (304L)	DN125	129.00/125.00 x 2.00	54.00/50.00 x 2.00	135.00	
9615227032	1.4307 (304L)	DN125	129.00/125.00 x 2.00	29.00/26.00 x 1.50	179.00	
9615227033	1.4307 (304L)	DN125	129.00/125.00 x 2.00	35.00/32.00 x 1.50	168.00	
9615227034	1.4307 (304L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	157.00	
9615227036	1.4307 (304L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	106.00	
9615227037	1.4307 (304L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	79.00	
9615227038	1.4307 (304L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	45.00	
9615227041	1.4307 (304L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	90.00	
9615227039	1.4307 (304L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	151.00	
9615227040	1.4307 (304L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	124.00	
9615227042	1.4307 (304L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	45.00	
9615227043	1.4307 (304L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	250.00	
9615227044	1.4307 (304L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	222.00	
9615227046	1.4307 (304L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	140.00	
9615227045	1.4307 (304L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	186.00	
9615227047	1.4307 (304L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	93.00	

Item no.	Material	Size	Dimension (mm)			
			OD1/ID1 x t1	OD2/ID2 x t2	L	
HSF3 (ID=0.8/OD=0.8)						
9615317201	1.4404 (316L)	DN15	19.00/16.00 x 1.50	13.00/10.00 x 1.50	11.00	
9615317202	1.4404 (316L)	DN20	23.00/20.00 x 1.50	13.00/10.00 x 1.50	18.00	
9615317203	1.4404 (316L)	DN20	23.00/20.00 x 1.50	19.00/16.00 x 1.50	7.00	
9615317206	1.4404 (316L)	DN25	29.00/26.00 x 1.50	23.00/20.00 x 1.50	11.00	
9615317204	1.4404 (316L)	DN25	29.00/26.00 x 1.50	13.00/10.00 x 1.50	29.00	
9615317205	1.4404 (316L)	DN25	29.00/26.00 x 1.50	19.00/16.00 x 1.50	18.00	
9615317209	1.4404 (316L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	11.00	
9615317207	1.4404 (316L)	DN32	35.00/32.00 x 1.50	19.00/16.00 x 1.50	29.00	
9615317208	1.4404 (316L)	DN32	35.00/32.00 x 1.50	23.00/20.00 x 1.50	22.00	
9615317210	1.4404 (316L)	DN40	41.00/38.00 x 1.50	19.00/16.00 x 1.50	40.00	
9615317212	1.4404 (316L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	22.00	
9615317213	1.4404 (316L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	11.00	
9615317211	1.4404 (316L)	DN40	41.00/38.00 x 1.50	23.00/20.00 x 1.50	33.00	
9615317214	1.4404 (316L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	44.00	
9615317215	1.4404 (316L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	33.00	
9615317216	1.4404 (316L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	22.00	
9615317219	1.4404 (316L)	DN65	70.00/66.00 x 2.00	42.00/38.00 x 2.00	51.00	
9615317217	1.4404 (316L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	73.00	
9615317220	1.4404 (316L)	DN65	70.00/66.00 x 2.00	54.00/50.00 x 2.00	29.00	
9615317218	1.4404 (316L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	62.00	
9615317223	1.4404 (316L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	78.00	
9615317225	1.4404 (316L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	27.00	
9615317224	1.4404 (316L)	DN80	85.00/81.00 x 2.00	54.00/50.00 x 2.00	56.00	
9615317221	1.4404 (316L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	100.00	
9615317222	1.4404 (316L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	89.00	
9615317229	1.4404 (316L)	DN100	104.00/100.00 x 2.00	54.00/50.00 x 2.00	90.00	
9615317231	1.4404 (316L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	34.00	
9615317230	1.4404 (316L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	61.00	
9615317227	1.4404 (316L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	123.00	
9615317228	1.4404 (316L)	DN100	104.00/100.00 x 2.00	42.00/38.00 x 2.00	112.00	
9615317226	1.4404 (316L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	134.00	
9615317236	1.4404 (316L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	106.00	
9615317237	1.4404 (316L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	79.00	
9615317235	1.4404 (316L)	DN125	129.00/125.00 x 2.00	54.00/50.00 x 2.00	135.00	
9615317238	1.4404 (316L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	45.00	
9615317232	1.4404 (316L)	DN125	129.00/125.00 x 2.00	29.00/26.00 x 1.50	179.00	
9615317233	1.4404 (316L)	DN125	129.00/125.00 x 2.00	35.00/32.00 x 1.50	168.00	
9615317234	1.4404 (316L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	157.00	
9615317239	1.4404 (316L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	151.00	
9615317241	1.4404 (316L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	90.00	
9615317240	1.4404 (316L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	124.00	
9615317242	1.4404 (316L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	45.00	
9615317243	1.4404 (316L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	250.00	
9615317244	1.4404 (316L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	222.00	
9615317245	1.4404 (316L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	186.00	
9615317246	1.4404 (316L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	140.00	
9615317247	1.4404 (316L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	93.00	

Item no.	Material	Size	Dimension (mm)			
			OD1/ID1 x t1	OD2/ID2 x t2	L	
HSF2 (ID=0.8/OD=1.6)						
9615227201	1.4307 (304L)	DN15	19.00/16.00 x 1.50	13.00/10.00 x 1.50	16.50	
9615227202	1.4307 (304L)	DN20	23.00/20.00 x 1.50	13.00/10.00 x 1.50	27.50	
9615227203	1.4307 (304L)	DN20	23.00/20.00 x 1.50	19.00/16.00 x 1.50	11.00	
9615227204	1.4307 (304L)	DN25	29.00/26.00 x 1.50	13.00/10.00 x 1.50	44.00	
9615227205	1.4307 (304L)	DN25	29.00/26.00 x 1.50	19.00/16.00 x 1.50	27.50	
9615227206	1.4307 (304L)	DN25	29.00/26.00 x 1.50	23.00/20.00 x 1.50	16.50	
9615227207	1.4307 (304L)	DN32	35.00/32.00 x 1.50	19.00/16.00 x 1.50	44.00	
9615227208	1.4307 (304L)	DN32	35.00/32.00 x 1.50	23.00/20.00 x 1.50	33.00	
9615227209	1.4307 (304L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	16.50	
9615227210	1.4307 (304L)	DN40	41.00/38.00 x 1.50	19.00/16.00 x 1.50	60.40	
9615227211	1.4307 (304L)	DN40	41.00/38.00 x 1.50	23.00/20.00 x 1.50	49.50	
9615227212	1.4307 (304L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	33.00	
9615227213	1.4307 (304L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	16.50	
9615227214	1.4307 (304L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	65.90	
9615227215	1.4307 (304L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	49.50	
9615227216	1.4307 (304L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	33.00	
9615227217	1.4307 (304L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	109.90	
9615227218	1.4307 (304L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	93.40	
9615227219	1.4307 (304L)	DN65	70.00/66.00 x 2.00	42.00/38.00 x 2.00	76.90	
9615227220	1.4307 (304L)	DN65	70.00/66.00 x 2.00	54.00/50.00 x 2.00	44.00	
9615227221	1.4307 (304L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	151.10	
9615227222	1.4307 (304L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	134.60	
9615227223	1.4307 (304L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	118.10	
9615227224	1.4307 (304L)	DN80	85.00/81.00 x 2.00	54.00/50.00 x 2.00	85.20	
9615227225	1.4307 (304L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	41.20	
9615227226	1.4307 (304L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	203.30	
9615227227	1.4307 (304L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	186.80	
9615227228	1.4307 (304L)	DN100	104.00/100.00 x 2.00	42.00/38.00 x 2.00	170.30	
9615227229	1.4307 (304L)	DN100	104.00/100.00 x 2.00	54.00/50.00 x 2.00	137.40	
9615227230	1.4307 (304L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	93.40	
9615227231	1.4307 (304L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	52.20	
9615227232	1.4307 (304L)	DN125	129.00/125.00 x 2.00	29.00/26.00 x 1.50	272.00	
9615227233	1.4307 (304L)	DN125	129.00/125.00 x 2.00	35.00/32.00 x 1.50	255.50	
9615227234	1.4307 (304L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	239.00	
9615227235	1.4307 (304L)	DN125	129.00/125.00 x 2.00	54.00/50.00 x 2.00	206.10	
9615227236	1.4307 (304L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	162.10	
9615227237	1.4307 (304L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	120.90	
9615227238	1.4307 (304L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	68.70	
9615227239	1.4307 (304L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	230.80	
9615227240	1.4307 (304L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	189.60	
9615227241	1.4307 (304L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	137.40	
9615227242	1.4307 (304L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	68.70	
9615227243	1.4307 (304L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	368.00	
9615227244	1.4307 (304L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	327.00	
9615227245	1.4307 (304L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	275.00	
9615227246	1.4307 (304L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	206.00	
9615227247	1.4307 (304L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	137.00	

Item no.	Material	Size	Dimension (mm)			HSF2 (ID=0.8/OD=1.6)
			OD1/ID1 x t1	OD2/ID2 x t2	L	
9615332801	1.4404 (316L)	DN15	19.00/16.00 x 1.50	13.00/10.00 x 1.50	16.50	
9615332802	1.4404 (316L)	DN20	23.00/20.00 x 1.50	13.00/10.00 x 1.50	27.50	
9615332803	1.4404 (316L)	DN20	23.00/20.00 x 1.50	19.00/16.00 x 1.50	11.00	
9615332804	1.4404 (316L)	DN25	29.00/26.00 x 1.50	13.00/10.00 x 1.50	44.00	
9615332805	1.4404 (316L)	DN25	29.00/26.00 x 1.50	19.00/16.00 x 1.50	27.50	
9615332806	1.4404 (316L)	DN25	29.00/26.00 x 1.50	23.00/20.00 x 1.50	16.50	
9615332807	1.4404 (316L)	DN32	35.00/32.00 x 1.50	19.00/16.00 x 1.50	44.00	
9615332808	1.4404 (316L)	DN32	35.00/32.00 x 1.50	23.00/20.00 x 1.50	33.00	
9615332809	1.4404 (316L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	16.50	
9615332810	1.4404 (316L)	DN40	41.00/38.00 x 1.50	19.00/16.00 x 1.50	60.40	
9615332811	1.4404 (316L)	DN40	41.00/38.00 x 1.50	23.00/20.00 x 1.50	49.50	
9615332812	1.4404 (316L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	33.00	
9615332813	1.4404 (316L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	16.50	
9615332814	1.4404 (316L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	65.90	
9615332815	1.4404 (316L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	49.50	
9615332816	1.4404 (316L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	33.00	
9615332817	1.4404 (316L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	109.90	
9615332818	1.4404 (316L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	93.40	
9615332819	1.4404 (316L)	DN65	70.00/66.00 x 2.00	42.00/38.00 x 2.00	76.90	
9615332820	1.4404 (316L)	DN65	70.00/66.00 x 2.00	54.00/50.00 x 2.00	44.00	
9615332821	1.4404 (316L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	151.10	
9615332822	1.4404 (316L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	134.60	
9615332824	1.4404 (316L)	DN80	85.00/81.00 x 2.00	54.00/50.00 x 2.00	85.20	
9615332825	1.4404 (316L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	41.20	
9615332823	1.4404 (316L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	118.10	
9615332826	1.4404 (316L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	203.30	
9615332827	1.4404 (316L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	186.80	
9615332828	1.4404 (316L)	DN100	104.00/100.00 x 2.00	42.00/38.00 x 2.00	170.30	
9615332829	1.4404 (316L)	DN100	104.00/100.00 x 2.00	54.00/50.00 x 2.00	137.40	
9615332830	1.4404 (316L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	93.40	
9615332831	1.4404 (316L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	52.20	
9615332832	1.4404 (316L)	DN125	129.00/125.00 x 2.00	29.00/26.00 x 1.50	272.00	
9615332833	1.4404 (316L)	DN125	129.00/125.00 x 2.00	35.00/32.00 x 1.50	255.50	
9615332834	1.4404 (316L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	239.00	
9615332835	1.4404 (316L)	DN125	129.00/125.00 x 2.00	54.00/50.00 x 2.00	206.10	
9615332836	1.4404 (316L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	162.10	
9615332837	1.4404 (316L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	120.90	
9615332838	1.4404 (316L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	68.70	
9615332839	1.4404 (316L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	230.80	
9615332840	1.4404 (316L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	189.60	
9615332841	1.4404 (316L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	137.40	
9615332842	1.4404 (316L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	68.70	
9615332843	1.4404 (316L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	368.00	
9615332844	1.4404 (316L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	327.00	
9615332845	1.4404 (316L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	275.00	
9615332846	1.4404 (316L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	206.00	
9615332847	1.4404 (316L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	137.00	

Item no.	Material	Size	Dimension (mm)			
			OD1/ID1 x t1	OD2/ID2 x t2	L	
HSF3 (ID=0.8/OD=0.8)						
9615234401	1.4307 (304L)	DN15	19.00/16.00 x 1.50	13.00/10.00 x 1.50	16.50	
9615234402	1.4307 (304L)	DN20	23.00/20.00 x 1.50	13.00/10.00 x 1.50	27.50	
9615234403	1.4307 (304L)	DN20	23.00/20.00 x 1.50	19.00/16.00 x 1.50	11.00	
9615234404	1.4307 (304L)	DN25	29.00/26.00 x 1.50	13.00/10.00 x 1.50	44.00	
9615234405	1.4307 (304L)	DN25	29.00/26.00 x 1.50	19.00/16.00 x 1.50	27.50	
9615234406	1.4307 (304L)	DN25	29.00/26.00 x 1.50	23.00/20.00 x 1.50	16.50	
9615234407	1.4307 (304L)	DN32	35.00/32.00 x 1.50	19.00/16.00 x 1.50	44.00	
9615234408	1.4307 (304L)	DN32	35.00/32.00 x 1.50	23.00/20.00 x 1.50	33.00	
9615234409	1.4307 (304L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	16.50	
9615234411	1.4307 (304L)	DN40	41.00/38.00 x 1.50	23.00/20.00 x 1.50	49.50	
9615234412	1.4307 (304L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	33.00	
9615234410	1.4307 (304L)	DN40	41.00/38.00 x 1.50	19.00/16.00 x 1.50	60.40	
9615234413	1.4307 (304L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	16.50	
9615234416	1.4307 (304L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	33.00	
9615234414	1.4307 (304L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	65.90	
9615234415	1.4307 (304L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	49.50	
9615234420	1.4307 (304L)	DN65	70.00/66.00 x 2.00	54.00/50.00 x 2.00	44.00	
9615234417	1.4307 (304L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	109.90	
9615234418	1.4307 (304L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	93.40	
9615234419	1.4307 (304L)	DN65	70.00/66.00 x 2.00	42.00/38.00 x 2.00	76.90	
9615234425	1.4307 (304L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	41.20	
9615234424	1.4307 (304L)	DN80	85.00/81.00 x 2.00	54.00/50.00 x 2.00	85.20	
9615234421	1.4307 (304L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	151.10	
9615234423	1.4307 (304L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	118.10	
9615234422	1.4307 (304L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	134.60	
9615234431	1.4307 (304L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	52.20	
9615234430	1.4307 (304L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	93.40	
9615234426	1.4307 (304L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	203.30	
9615234427	1.4307 (304L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	186.80	
9615234429	1.4307 (304L)	DN100	104.00/100.00 x 2.00	54.00/50.00 x 2.00	137.40	
9615234428	1.4307 (304L)	DN100	104.00/100.00 x 2.00	42.00/38.00 x 2.00	170.30	
9615234432	1.4307 (304L)	DN125	129.00/125.00 x 2.00	29.00/26.00 x 1.50	272.00	
9615234433	1.4307 (304L)	DN125	129.00/125.00 x 2.00	35.00/32.00 x 1.50	255.50	
9615234434	1.4307 (304L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	239.00	
9615234435	1.4307 (304L)	DN125	129.00/125.00 x 2.00	54.00/50.00 x 2.00	206.10	
9615234436	1.4307 (304L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	162.10	
9615234437	1.4307 (304L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	120.90	
9615234438	1.4307 (304L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	68.70	
9615234441	1.4307 (304L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	137.40	
9615234442	1.4307 (304L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	68.70	
9615234439	1.4307 (304L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	230.80	
9615234440	1.4307 (304L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	189.60	
9615234444	1.4307 (304L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	327.00	
9615234445	1.4307 (304L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	275.00	
9615234446	1.4307 (304L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	206.00	
9615234443	1.4307 (304L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	368.00	
9615234447	1.4307 (304L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	137.00	

Item no.	Material	Size	Dimension (mm)			
			OD1/ID1 x t1	OD2/ID2 x t2	L	
HSF3 (ID=0.8/OD=0.8)						
9615317501	1.4404 (316L)	DN15	19.00/16.00 x 1.50	13.00/10.00 x 1.50	16.50	
9615317502	1.4404 (316L)	DN20	23.00/20.00 x 1.50	13.00/10.00 x 1.50	27.50	
9615317503	1.4404 (316L)	DN20	23.00/20.00 x 1.50	19.00/16.00 x 1.50	11.00	
9615317505	1.4404 (316L)	DN25	29.00/26.00 x 1.50	19.00/16.00 x 1.50	27.50	
9615317504	1.4404 (316L)	DN25	29.00/26.00 x 1.50	13.00/10.00 x 1.50	44.00	
9615317506	1.4404 (316L)	DN25	29.00/26.00 x 1.50	23.00/20.00 x 1.50	16.50	
9615317507	1.4404 (316L)	DN32	35.00/32.00 x 1.50	19.00/16.00 x 1.50	44.00	
9615317508	1.4404 (316L)	DN32	35.00/32.00 x 1.50	23.00/20.00 x 1.50	33.00	
9615317509	1.4404 (316L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	16.50	
9615317512	1.4404 (316L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	33.00	
9615317510	1.4404 (316L)	DN40	41.00/38.00 x 1.50	19.00/16.00 x 1.50	60.40	
9615317511	1.4404 (316L)	DN40	41.00/38.00 x 1.50	23.00/20.00 x 1.50	49.50	
9615317513	1.4404 (316L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	16.50	
9615317516	1.4404 (316L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	33.00	
9615317514	1.4404 (316L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	65.90	
9615317515	1.4404 (316L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	49.50	
9615317520	1.4404 (316L)	DN65	70.00/66.00 x 2.00	54.00/50.00 x 2.00	44.00	
9615317517	1.4404 (316L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	109.90	
9615317518	1.4404 (316L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	93.40	
9615317519	1.4404 (316L)	DN65	70.00/66.00 x 2.00	42.00/38.00 x 2.00	76.90	
9615317524	1.4404 (316L)	DN80	85.00/81.00 x 2.00	54.00/50.00 x 2.00	85.20	
9615317525	1.4404 (316L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	41.20	
9615317521	1.4404 (316L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	151.10	
9615317522	1.4404 (316L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	134.60	
9615317523	1.4404 (316L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	118.10	
9615317530	1.4404 (316L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	93.40	
9615317531	1.4404 (316L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	52.20	
9615317527	1.4404 (316L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	186.80	
9615317526	1.4404 (316L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	203.30	
9615317529	1.4404 (316L)	DN100	104.00/100.00 x 2.00	54.00/50.00 x 2.00	137.40	
9615317528	1.4404 (316L)	DN100	104.00/100.00 x 2.00	42.00/38.00 x 2.00	170.30	
9615317537	1.4404 (316L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	120.90	
9615317538	1.4404 (316L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	68.70	
9615317533	1.4404 (316L)	DN125	129.00/125.00 x 2.00	35.00/32.00 x 1.50	255.50	
9615317532	1.4404 (316L)	DN125	129.00/125.00 x 2.00	29.00/26.00 x 1.50	272.00	
9615317534	1.4404 (316L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	239.00	
9615317535	1.4404 (316L)	DN125	129.00/125.00 x 2.00	54.00/50.00 x 2.00	206.10	
9615317536	1.4404 (316L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	162.10	
9615317540	1.4404 (316L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	189.60	
9615317539	1.4404 (316L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	230.80	
9615317541	1.4404 (316L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	137.40	
9615317542	1.4404 (316L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	68.70	
9615317543	1.4404 (316L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	368.00	
9615317545	1.4404 (316L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	275.00	
9615317544	1.4404 (316L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	327.00	
9615317546	1.4404 (316L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	206.00	
9615317547	1.4404 (316L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	137.00	

Item no.	Material	Size	Dimension (mm)		
			OD/ID x t	L	
HSF2 (ID=0.8/OD=1.6)					
9615227401	1.4307 (304L)	DN10	19.00/16.00 x 1.50	26.00	
9615227402	1.4307 (304L)	DN15	23.00/20.00 x 1.50	35.00	
9615227403	1.4307 (304L)	DN20	29.00/26.00 x 1.50	40.00	
9615227404	1.4307 (304L)	DN25	35.00/32.00 x 1.50	50.00	
9615227405	1.4307 (304L)	DN32	41.00/38.00 x 1.50	55.00	
9615227406	1.4307 (304L)	DN40	53.00/50.00 x 1.50	60.00	
9615227407	1.4307 (304L)	DN50	70.00/66.00 x 2.00	70.00	
9615227408	1.4307 (304L)	DN65	85.00/81.00 x 2.00	80.00	
9615227409	1.4307 (304L)	DN80	104.00/100.00 x 2.00	90.00	
9615227410	1.4307 (304L)	DN100	129.00/125.00 x 2.00	100.00	
9615227411	1.4307 (304L)	DN125	154.00/150.00 x 2.00	187.50	
9615227412	1.4307 (304L)	DN150	204.00/200.00 x 2.00	225.00	
9615227427	1.4307 (304L)	DN200	13.00/10.00 x 1.50	300.00	
9615227413	1.4404 (316L)	DN10	19.00/16.00 x 1.50	26.00	
9615227414	1.4404 (316L)	DN15	23.00/20.00 x 1.50	35.00	
9615227415	1.4404 (316L)	DN20	29.00/26.00 x 1.50	40.00	
9615227416	1.4404 (316L)	DN25	35.00/32.00 x 1.50	50.00	
9615227417	1.4404 (316L)	DN32	41.00/38.00 x 1.50	55.00	
9615227418	1.4404 (316L)	DN40	53.00/50.00 x 1.50	60.00	
9615227419	1.4404 (316L)	DN50	70.00/66.00 x 2.00	70.00	
9615227420	1.4404 (316L)	DN65	85.00/81.00 x 2.00	80.00	
9615227421	1.4404 (316L)	DN80	104.00/100.00 x 2.00	90.00	
9615227422	1.4404 (316L)	DN100	129.00/125.00 x 2.00	100.00	
9615227423	1.4404 (316L)	DN125	154.00/150.00 x 2.00	187.50	
9615227424	1.4404 (316L)	DN150	204.00/200.00 x 2.00	225.00	
9615227430	1.4404 (316L)	DN200	204.00/200.00 x 2.00	300.00	
9615227428	1.4404 (316L)	DN200	19.00/16.00 x 1.50	300.00	
HSF3 (ID=0.8/OD=0.8)					
9612155558	1.4307 (304L)	DN10	23.00/20.00 x 1.50	26.00	
9612155559	1.4307 (304L)	DN15	35.00/32.00 x 1.50	35.00	
9612155560	1.4307 (304L)	DN20	23.00/20.00 x 1.50	40.00	
9612155561	1.4307 (304L)	DN25	41.00/38.00 x 1.50	50.00	
9612155562	1.4307 (304L)	DN32	35.00/32.00 x 1.50	55.00	
9612155563	1.4307 (304L)	DN40	53.00/50.00 x 1.50	60.00	
9612155564	1.4307 (304L)	DN50	13.00/10.00 x 1.50	70.00	
9611309290	1.4307 (304L)	DN65	70.00/66.00 x 2.00	80.00	
9611309300	1.4307 (304L)	DN80	104.00/100.00 x 2.00	90.00	
9611309310	1.4307 (304L)	DN100	129.00/125.00 x 2.00	100.00	
9611309320	1.4307 (304L)	DN125	154.00/150.00 x 2.00	187.50	
9611309330	1.4307 (304L)	DN150	154.00/150.00 x 2.00	225.00	
9615227429	1.4307 (304L)	DN200	204.00/200.00 x 2.00	300.00	
9612155508	1.4404 (316L)	DN10	19.00/16.00 x 1.50	26.00	
9612155509	1.4404 (316L)	DN15	29.00/26.00 x 1.50	35.00	
9612155510	1.4404 (316L)	DN20	29.00/26.00 x 1.50	40.00	
9612155511	1.4404 (316L)	DN25	35.00/32.00 x 1.50	50.00	
9612155512	1.4404 (316L)	DN32	41.00/38.00 x 1.50	55.00	
9612155513	1.4404 (316L)	DN40	53.00/50.00 x 1.50	60.00	

Item no.	Material	Size	Dimension (mm)		
			OD/ID x t	L	
HSF3 (ID=0.8/OD=0.8)					
9612155514	1.4404 (316L)	DN50	19.00/16.00 x 1.50	70.00	
9611309291	1.4404 (316L)	DN65	85.00/81.00 x 2.00	80.00	
9611309301	1.4404 (316L)	DN80	104.00/100.00 x 2.00	90.00	
9611309311	1.4404 (316L)	DN100	129.00/125.00 x 2.00	100.00	
9611309321	1.4404 (316L)	DN125	154.00/150.00 x 2.00	187.50	
9611309331	1.4404 (316L)	DN150	154.00/150.00 x 2.00	225.00	

Item no.	Material	Size	Dimension (mm)				Nuts and Screws	
			OD/ID x t	A	B	F		
BF collar								
8010000398	1.4307 (304L)	DN10	13.00/10.00 x 1.50	54.00	24.00	37.00		
8010000399	1.4307 (304L)	DN15	19.00/16.00 x 1.50	59.00	24.00	42.00		
8010000400	1.4307 (304L)	DN20	23.00/20.00 x 1.50	64.00	24.00	47.00		
8010000401	1.4307 (304L)	DN25	29.00/26.00 x 1.50	70.00	24.00	53.00		
8010000402	1.4307 (304L)	DN32	35.00/32.00 x 1.50	76.00	24.00	59.00		
8010000403	1.4307 (304L)	DN40	41.00/38.00 x 1.50	82.00	24.00	65.00		
8010000404	1.4307 (304L)	DN50	53.00/50.00 x 1.50	94.00	24.00	77.00		
8010000405	1.4307 (304L)	DN65	70.00/66.00 x 2.00	113.00	24.00	95.00		
8010000406	1.4307 (304L)	DN80	85.00/81.00 x 2.00	133.00	26.00	112.00		
8010000408	1.4307 (304L)	DN100	104.00/100.00 x 2.00	159.00	26.00	137.00		
8010000409	1.4307 (304L)	DN125	129.00/125.00 x 2.00	183.00	28.00	161.00		
8010000410	1.4307 (304L)	DN150	154.00/150.00 x 2.00	213.00	28.00	188.00		
8010000518	1.4404 (316L)	DN10	13.00/10.00 x 1.50	54.00	24.00	37.00		
8010000519	1.4404 (316L)	DN15	19.00/16.00 x 1.50	59.00	24.00	42.00		
8010000520	1.4404 (316L)	DN20	23.00/20.00 x 1.50	64.00	24.00	47.00		
8010000521	1.4404 (316L)	DN25	29.00/26.00 x 1.50	70.00	24.00	53.00		
8010000522	1.4404 (316L)	DN32	35.00/32.00 x 1.50	76.00	24.00	59.00		
8010000523	1.4404 (316L)	DN40	41.00/38.00 x 1.50	82.00	24.00	65.00		
8010000524	1.4404 (316L)	DN50	53.00/50.00 x 1.50	94.00	24.00	77.00		
8010000525	1.4404 (316L)	DN65	70.00/66.00 x 2.00	113.00	24.00	95.00		
8010000526	1.4404 (316L)	DN80	85.00/81.00 x 2.00	133.00	26.00	112.00		
8010000527	1.4404 (316L)	DN100	104.00/100.00 x 2.00	159.00	26.00	137.00		
8010000528	1.4404 (316L)	DN125	129.00/125.00 x 2.00	183.00	28.00	161.00		
8010000529	1.4404 (316L)	DN150	154.00/150.00 x 2.00	213.00	28.00	188.00		
NF groove								
8010000383	1.4307 (304L)	DN10	13.00/10.00 x 1.50	54.00	25.50	37.00		
8010000384	1.4307 (304L)	DN15	19.00/16.00 x 1.50	59.00	25.50	42.00		
8010000385	1.4307 (304L)	DN20	23.00/20.00 x 1.50	64.00	25.50	47.00		
8010000386	1.4307 (304L)	DN25	29.00/26.00 x 1.50	70.00	25.50	53.00		
8010000388	1.4307 (304L)	DN32	35.00/32.00 x 1.50	76.00	25.50	59.00		
8010000390	1.4307 (304L)	DN40	41.00/38.00 x 1.50	82.00	25.50	65.00		
8010000391	1.4307 (304L)	DN50	53.00/50.00 x 1.50	94.00	25.50	77.00		
8010000392	1.4307 (304L)	DN65	70.00/66.00 x 2.00	113.00	25.50	95.00		
8010000394	1.4307 (304L)	DN80	85.00/81.00 x 2.00	133.00	27.50	112.00		
8010000395	1.4307 (304L)	DN100	104.00/100.00 x 2.00	159.00	27.50	137.00		
8010000396	1.4307 (304L)	DN125	129.00/125.00 x 2.00	183.00	29.50	161.00		
8010000397	1.4307 (304L)	DN150	154.00/150.00 x 2.00	213.00	29.50	188.00		
8010000506	1.4404 (316L)	DN10	13.00/10.00 x 1.50	54.00	25.50	37.00		
8010000507	1.4404 (316L)	DN15	19.00/16.00 x 1.50	59.00	25.50	42.00		
8010000508	1.4404 (316L)	DN20	23.00/20.00 x 1.50	64.00	25.50	47.00		
8010000509	1.4404 (316L)	DN25	29.00/26.00 x 1.50	70.00	25.50	53.00		
8010000510	1.4404 (316L)	DN32	35.00/32.00 x 1.50	76.00	25.50	59.00		
8010000511	1.4404 (316L)	DN40	41.00/38.00 x 1.50	82.00	25.50	65.00		
8010000512	1.4404 (316L)	DN50	53.00/50.00 x 1.50	94.00	25.50	77.00		
8010000513	1.4404 (316L)	DN65	70.00/66.00 x 2.00	113.00	25.50	95.00		
8010000514	1.4404 (316L)	DN80	85.00/81.00 x 2.00	133.00	27.50	112.00		
8010000515	1.4404 (316L)	DN100	104.00/100.00 x 2.00	159.00	27.50	137.00		

Item no.	Material	Size	Dimension (mm)				Nuts and Screws	
			OD/ID x t	A	B	F		
NF groove								
8010000516	1.4404 (316L)	DN125	129.00/125.00 x 2.00	183.00	29.50	161.00		
8010000517	1.4404 (316L)	DN150	154.00/150.00 x 2.00	213.00	29.50	188.00		
Screw and Nut set								
9612905161	1.4301 (304)	DN10-50				4 x M8 x 30		
9612905162	1.4301 (304)	DN65				8 x M8 x 30		
9612905163	1.4301 (304)	DN76.1				8 x M10 x 30		
9612905164	1.4301 (304)	DN80				8 x M10 x 35		
9612905165	1.4301 (304)	DN100-125				8 x M10 x 40		
9612905166	1.4301 (304)	DN150				8 x M10 x 50		

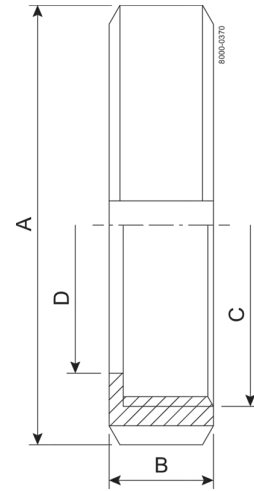
Item no.	Material	Size	Dimension (mm)				
			OD/ID x t	A	B	F	
BF collar							
9613403931	1.4404 (316L)	DN10	13.00/10.00 x 1.50	54.00	40.00	37.00	
9613403932	1.4404 (316L)	DN15	19.00/16.00 x 1.50	59.00	40.00	42.00	
9613403933	1.4404 (316L)	DN20	23.00/20.00 x 1.50	64.00	40.00	47.00	
9613403934	1.4404 (316L)	DN25	29.00/26.00 x 1.50	70.00	40.00	53.00	
9613403935	1.4404 (316L)	DN32	35.00/32.00 x 1.50	76.00	45.00	59.00	
9613403936	1.4404 (316L)	DN40	41.00/38.00 x 1.50	82.00	45.00	65.00	
9613403937	1.4404 (316L)	DN50	53.00/50.00 x 1.50	94.00	45.00	77.00	
9613403938	1.4404 (316L)	DN65	70.00/66.00 x 2.00	113.00	54.00	95.00	
9613403939	1.4404 (316L)	DN80	85.00/81.00 x 2.00	133.00	58.00	112.00	
9613403940	1.4404 (316L)	DN100	104.00/100.00 x 2.00	159.00	58.00	137.00	
9615331013	1.4404 (316L)	DN125	129.00/125.00 x 2.00	183.00	60.0	161.00	
9615331014	1.4404 (316L)	DN150	154.00/150.00 x 2.00	213.00	60.0	188.00	
NF groove							
9613403921	1.4404 (316L)	DN10	13.00/10.00 x 1.50	54.00	41.50	37.00	
9613403922	1.4404 (316L)	DN15	19.00/16.00 x 1.50	59.00	41.50	42.00	
9613403923	1.4404 (316L)	DN20	23.00/20.00 x 1.50	64.00	41.50	47.00	
9613403924	1.4404 (316L)	DN25	29.00/26.00 x 1.50	70.00	41.50	53.00	
9613403925	1.4404 (316L)	DN32	35.00/32.00 x 1.50	76.00	46.50	59.00	
9613403926	1.4404 (316L)	DN40	41.00/38.00 x 1.50	82.00	46.50	65.00	
9613403927	1.4404 (316L)	DN50	53.00/50.00 x 1.50	94.00	46.50	77.00	
9613403928	1.4404 (316L)	DN65	70.00/66.00 x 2.00	113.00	55.50	95.00	
9613403929	1.4404 (316L)	DN80	85.00/81.00 x 2.00	133.00	59.50	112.00	
9613403930	1.4404 (316L)	DN100	104.00/100.00 x 2.00	159.00	59.50	137.00	
9615331113	1.4404 (316L)	DN125	129.00/125.00 x 2.00	183.00	61.50	161.00	
9615331114	1.4404 (316L)	DN150	154.00/150.00 x 2.00	213.00	61.50	188.00	

Item no.	Size	Dimension (mm)			
		A	B	D	
EPDM (E)					
9611991267	DN10	20.00	4.50	12.00	
9611991268	DN15	26.00	4.50	18.00	
9611991323	DN20	33.00	4.50	23.00	
9611991269	DN25	40.00	5.00	30.00	
9611991270	DN32	46.00	5.00	36.00	
9611991271	DN40	52.00	5.00	42.00	
9611991272	DN50	64.00	5.00	54.00	
9611991273	DN65	81.00	5.00	71.00	
9611991274	DN75	88.00	5.00	78.00	
9611991275	DN80	95.00	5.00	85.00	
9611991276	DN100	114.00	6.00	104.00	
9611991277	DN125	142.00	7.00	130.00	
9611991278	DN150	167.00	7.00	155.00	
FPM					
9611991861	DN10	20.00	4.50	12.00	
9611991862	DN15	26.00	4.50	18.00	
9611991863	DN20	33.00	4.50	23.00	
9611991864	DN25	40.00	5.00	30.00	
9611991865	DN32	46.00	5.00	36.00	
9611991866	DN40	52.00	5.00	42.00	
9611991867	DN50	64.00	5.00	54.00	
9611991868	DN65	81.00	5.00	71.00	
9611991869	DN75	88.00	5.00	78.00	
9611991128	DN80	95.00	5.00	85.00	
9611991870	DN100	114.00	6.00	104.00	
9611991871	DN125	142.00	7.00	130.00	
9611991872	DN150	167.00	7.00	155.00	

Item no.	Size	Dimension (mm)			
		A	B	D	
NBR					
52734601	DN10	20.00	4.50	12.00	
52734602	DN15	26.00	4.50	18.00	
52734603	DN20	33.00	4.50	23.00	
52734604	DN25	40.00	5.00	30.00	
52734605	DN32	46.00	5.00	36.00	
52734606	DN40	52.00	5.00	42.00	
52734607	DN50	64.00	5.00	54.00	
52734608	DN65	81.00	5.00	71.00	
9611991264	DN75	88.00	5.00	78.00	
52734609	DN80	95.00	5.00	85.00	
52734611	DN100	114.00	6.00	104.00	
9611991265	DN125	142.00	7.00	130.00	
9611991266	DN150	167.00	7.00	155.00	
PTFE (G)					
9611991873	DN10	20.00	4.50	12.00	
9611991874	DN15	26.00	4.50	18.00	
9611991875	DN20	33.00	4.50	23.00	
9611991876	DN25	40.00	5.00	30.00	
9611991877	DN32	46.00	5.00	36.00	
9611991878	DN40	52.00	5.00	42.00	
9611991879	DN50	64.00	5.00	54.00	
9611991880	DN65	81.00	5.00	71.00	
9611991881	DN75	88.00	5.00	78.00	
9611991882	DN80	95.00	5.00	85.00	
9611991883	DN100	114.00	6.00	104.00	
9611991884	DN125	142.00	7.00	130.00	
9611991885	DN150	167.00	7.00	155.00	

Item no.	Size	Dimension (mm)			
		A	B	D	
Silicone (Q)					
9611991917	DN10	20.00	4.50	12.00	
9611991918	DN15	26.00	4.50	18.00	
9611991919	DN20	33.00	4.50	23.00	
9611991920	DN25	40.00	5.00	30.00	
9611991921	DN32	46.00	5.00	36.00	
9611991922	DN40	52.00	5.00	42.00	
9611991923	DN50	64.00	5.00	54.00	
9611991924	DN65	81.00	5.00	71.00	
9611991925	DN75	88.00	5.00	78.00	
9611991926	DN80	95.00	5.00	85.00	
9611991927	DN100	114.00	6.00	104.00	
9611991928	DN125	142.00	7.00	130.00	
9611991929	DN150	167.00	7.00	155.00	

Item no.	Material	Size	Dimension (mm)			
			A	B	C	D
HSF0 (ID=0.8/OD=1.6)						
9611306420	1.4301 (304)	DN10	38.00	18.00	28.00 x 1/8	19.00
9611306430	1.4301 (304)	DN15	44.00	18.00	34.00 x 1/8	25.00
9611290021	1.4301 (304)	DN20	54.00	20.00	44.00 x 1/6	31.00
3131800141	1.4301 (304)	DN25	63.00	21.00	52.00 x 1/6	36.00
3131800142	1.4301 (304)	DN32	70.00	21.00	58.00 x 1/6	42.00
3131800143	1.4301 (304)	DN40	78.00	21.00	65.00 x 1/6	49.00
3131800144	1.4301 (304)	DN50	92.00	22.00	78.00 x 1/6	62.00
3131800145	1.4301 (304)	DN65	112.00	25.00	95.00 x 1/6	80.00
9611306440	1.4301 (304)	DN75	120.00	26.00	104.00 x 1/6	87.00
3131800146	1.4301 (304)	DN80	127.00	29.00	110.00 x 1/4	94.00
3131800148	1.4301 (304)	DN100	148.00	31.00	130.00 x 1/4	115.00
9611306450	1.4301 (304)	DN125	178.00	34.00	160.00 x 1/4	138.00
9611306460	1.4301 (304)	DN150	210.00	40.00	190.00 x 1/4	164.00
9612150701	1.4404 (316L)	DN10	38.00	18.00	28.00 x 1/8	19.00
9612150702	1.4404 (316L)	DN15	44.00	18.00	34.00 x 1/8	25.00
9612150703	1.4404 (316L)	DN20	54.00	20.00	44.00 x 1/6	31.00
9612150704	1.4404 (316L)	DN25	63.00	21.00	52.00 x 1/6	36.00
9612150705	1.4404 (316L)	DN32	70.00	21.00	58.00 x 1/6	42.00
9612150706	1.4404 (316L)	DN40	78.00	21.00	65.00 x 1/6	49.00
9612150707	1.4404 (316L)	DN50	92.00	22.00	78.00 x 1/6	62.00
9612150708	1.4404 (316L)	DN65	112.00	25.00	95.00 x 1/6	80.00
9612150710	1.4404 (316L)	DN80	127.00	29.00	110.00 x 1/4	94.00
9612150711	1.4404 (316L)	DN100	148.00	31.00	130.00 x 1/4	115.00
9612150712	1.4404 (316L)	DN125	178.00	34.00	160.00 x 1/4	138.00
9612150713	1.4404 (316L)	DN150	210.00	40.00	190.00 x 1/4	164.00



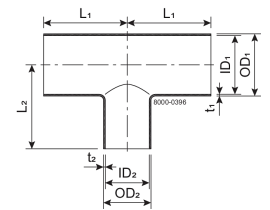
Item no.	Material	Size	Dimension (mm)		R
			B	D	
9612906201	EPDM (E)	DN10	3.50	12.00	
9612906202	EPDM (E)	DN15	3.50	18.00	
9612906203	EPDM (E)	DN20	3.50	22.00	
9612906204	EPDM (E)	DN25	3.50	28.00	
9612906205	EPDM (E)	DN32	5.00	34.00	
9612906206	EPDM (E)	DN40	5.00	40.00	
9612906207	EPDM (E)	DN50	5.00	52.00	
9612906208	EPDM (E)	DN65	5.00	68.00	
9612906209	EPDM (E)	DN80	5.00	83.00	
9612906210	EPDM (E)	DN100	5.00	102.00	
9612906221	EPDM (E)	DN125	5.00	127.00	
9612906222	EPDM (E)	DN150	5.00	152.00	
9612906211	FPM	DN10	3.50	12.00	
9612906212	FPM	DN15	3.50	18.00	
9612906213	FPM	DN20	3.50	22.00	
9612906214	FPM	DN25	3.50	28.00	
9612906215	FPM	DN32	5.00	34.00	
9612906216	FPM	DN40	5.00	40.00	
9612906217	FPM	DN50	5.00	52.00	
9612906218	FPM	DN65	5.00	68.00	
9612906219	FPM	DN80	5.00	83.00	
9612906220	FPM	DN100	5.00	102.00	
9612906223	FPM	DN125	5.00	127.00	
9612906224	FPM	DN150	5.00	152.00	

Item no.	Material	Size	Dimension (mm)				HSF2 (ID=0.8/OD=1.6)
			OD1/ID1 x t1	OD2/ID2 x t2	L1	L2	
9615227701	1.4307 (304L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	55.00	53.00	
9615227702	1.4307 (304L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	60.00	53.00	
9615227703	1.4307 (304L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	60.00	58.00	
9615227704	1.4307 (304L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	70.00	62.00	
9615227705	1.4307 (304L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	70.00	64.00	
9615227706	1.4307 (304L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	70.00	66.00	
9615227707	1.4307 (304L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	80.00	70.50	
9615227708	1.4307 (304L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	80.00	72.50	
9615227709	1.4307 (304L)	DN65	70.00/66.00 x 2.00	41.00/38.00 x 1.50	80.00	74.50	
9615227710	1.4307 (304L)	DN65	70.00/66.00 x 2.00	53.00/50.00 x 1.50	80.00	78.50	
9615227711	1.4307 (304L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	90.00	78.00	
9615227712	1.4307 (304L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	90.00	80.00	
9615227713	1.4307 (304L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	90.00	82.00	
9615227714	1.4307 (304L)	DN80	85.00/81.00 x 2.00	53.00/50.00 x 1.50	90.00	86.00	
9615227715	1.4307 (304L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	90.00	87.50	
9615227761	1.4307 (304L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	100.00	92.50	
9615227716	1.4307 (304L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	100.00	92.50	
9615227717	1.4307 (304L)	DN100	104.00/100.00 x 2.00	41.00/38.00 x 1.50	100.00	94.00	
9615227718	1.4307 (304L)	DN100	104.00/100.00 x 2.00	53.00/50.00 x 1.50	100.00	95.50	
9615227719	1.4307 (304L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	100.00	97.00	
9615227720	1.4307 (304L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	100.00	99.50	
9615227721	1.4307 (304L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	187.50	104.50	
9615227722	1.4307 (304L)	DN125	129.00/125.00 x 2.00	53.00/50.00 x 1.50	187.50	107.00	
9615227723	1.4307 (304L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	187.50	109.50	
9615227724	1.4307 (304L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	187.50	112.00	
9615227725	1.4307 (304L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	187.50	112.50	
9615227726	1.4307 (304L)	DN150	154.00/150.00 x 2.00	53.00/50.00 x 1.50	225.00	123.50	
9615227727	1.4307 (304L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	225.00	124.00	
9615227728	1.4307 (304L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	225.00	124.50	
9615227729	1.4307 (304L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	225.00	125.00	
9615227730	1.4307 (304L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	225.00	200.0	
9615227762	1.4307 (304L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	300.00	115.00	
9615227763	1.4307 (304L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	300.00	130.00	
9615227764	1.4307 (304L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	300.00	150.00	
9615227765	1.4307 (304L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	300.00	225.00	
9615227766	1.4307 (304L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	300.00	250.00	
9615227731	1.4404 (316L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	55.00	53.00	
9615227732	1.4404 (316L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	60.00	53.00	
9615227733	1.4404 (316L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	60.00	58.00	
9615227734	1.4404 (316L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	70.00	62.00	
9615227735	1.4404 (316L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	70.00	64.00	
9615227736	1.4404 (316L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	70.00	66.00	
9615227737	1.4404 (316L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	80.00	70.50	
9615227738	1.4404 (316L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	80.00	72.50	
9615227739	1.4404 (316L)	DN65	70.00/66.00 x 2.00	41.00/38.00 x 1.50	80.00	74.50	
9615227740	1.4404 (316L)	DN65	70.00/66.00 x 2.00	53.00/50.00 x 1.50	80.00	78.50	
9615227741	1.4404 (316L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	90.00	78.00	

Item no.	Material	Size	Dimension (mm)				
			OD1/ID1 x t1	OD2/ID2 x t2	L1	L2	
							HSF2 (ID=0.8/OD=1.6)
9615227742	1.4404 (316L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	90.00	80.00	
9615227743	1.4404 (316L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	90.00	82.00	
9615227744	1.4404 (316L)	DN80	85.00/81.00 x 2.00	53.00/50.00 x 1.50	90.00	86.00	
9615227745	1.4404 (316L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	90.00	87.50	
9615227767	1.4404 (316L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	100.00	92.50	
9615227746	1.4404 (316L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	100.00	92.50	
9615227747	1.4404 (316L)	DN100	104.00/100.00 x 2.00	41.00/38.00 x 1.50	100.00	94.00	
9615227748	1.4404 (316L)	DN100	104.00/100.00 x 2.00	53.00/50.00 x 1.50	100.00	95.50	
9615227749	1.4404 (316L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	100.00	97.00	
9615227750	1.4404 (316L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	100.00	99.50	
9615227754	1.4404 (316L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	187.50	112.00	
9615227753	1.4404 (316L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	187.50	109.50	
9615227752	1.4404 (316L)	DN125	129.00/125.00 x 2.00	53.00/50.00 x 1.50	187.50	107.00	
9615227751	1.4404 (316L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	187.50	104.50	
9615227755	1.4404 (316L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	187.50	112.50	
9615227756	1.4404 (316L)	DN150	154.00/150.00 x 2.00	53.00/50.00 x 1.50	225.00	123.50	
9615227757	1.4404 (316L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	225.00	124.00	
9615227758	1.4404 (316L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	225.00	124.50	
9615227759	1.4404 (316L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	225.00	125.00	
9615227760	1.4404 (316L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	225.00	200.0	
9615227768	1.4404 (316L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	300.00	115.00	
9615227769	1.4404 (316L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	300.00	130.00	
9615227770	1.4404 (316L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	300.00	150.00	
9615227771	1.4404 (316L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	300.00	225.00	
9615227772	1.4404 (316L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	300.00	250.00	
							HSF3 (ID=0.8/OD=0.8)
9615247101	1.4307 (304L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	55.00	53.00	
9615247102	1.4307 (304L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	60.00	53.00	
9615247103	1.4307 (304L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	60.00	58.00	
9615247104	1.4307 (304L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	70.00	62.00	
9615247105	1.4307 (304L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	70.00	64.00	
9615247106	1.4307 (304L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	70.00	66.00	
9615247109	1.4307 (304L)	DN65	70.00/66.00 x 2.00	41.00/38.00 x 1.50	80.00	74.50	
9615247107	1.4307 (304L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	80.00	70.50	
9615247110	1.4307 (304L)	DN65	70.00/66.00 x 2.00	53.00/50.00 x 1.50	80.00	78.50	
9615247108	1.4307 (304L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	80.00	72.50	
9615247111	1.4307 (304L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	90.00	78.00	
9615247113	1.4307 (304L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	90.00	82.00	
9615247114	1.4307 (304L)	DN80	85.00/81.00 x 2.00	53.00/50.00 x 1.50	90.00	86.00	
9615247115	1.4307 (304L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	90.00	87.50	
9615247112	1.4307 (304L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	90.00	80.00	
9615247119	1.4307 (304L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	100.00	97.00	
9615247118	1.4307 (304L)	DN100	104.00/100.00 x 2.00	53.00/50.00 x 1.50	100.00	95.50	
9615247117	1.4307 (304L)	DN100	104.00/100.00 x 2.00	41.00/38.00 x 1.50	100.00	94.00	
9615247120	1.4307 (304L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	100.00	99.50	
9615247161	1.4307 (304L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	100.00	92.50	
9615247116	1.4307 (304L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	100.00	92.50	

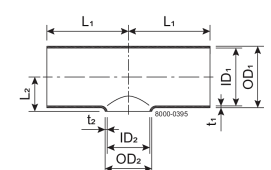
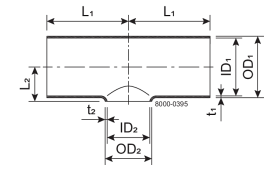
Item no.	Material	Size	Dimension (mm)				
			OD1/ID1 x t1	OD2/ID2 x t2	L1	L2	
HSF3 (ID=0.8/OD=0.8)							
9615247121	1.4307 (304L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	187.50	104.50	
9615247122	1.4307 (304L)	DN125	129.00/125.00 x 2.00	53.00/50.00 x 1.50	187.50	107.00	
9615247123	1.4307 (304L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	187.50	109.50	
9615247124	1.4307 (304L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	187.50	112.00	
9615247125	1.4307 (304L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	187.50	112.50	
9615247127	1.4307 (304L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	225.00	124.00	
9615247126	1.4307 (304L)	DN150	154.00/150.00 x 2.00	53.00/50.00 x 1.50	225.00	123.50	
9615247128	1.4307 (304L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	225.00	124.50	
9615247129	1.4307 (304L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	225.00	125.00	
9615247130	1.4307 (304L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	225.00	200.0	
9615247162	1.4307 (304L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	300.00	115.00	
9615247164	1.4307 (304L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	300.00	150.00	
9615247163	1.4307 (304L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	300.00	130.00	
9615247165	1.4307 (304L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	300.00	225.00	
9615247166	1.4307 (304L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	300.00	250.00	
9615247131	1.4404 (316L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	55.00	53.00	
9615247132	1.4404 (316L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	60.00	53.00	
9615247133	1.4404 (316L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	60.00	58.00	
9615247136	1.4404 (316L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	70.00	66.00	
9615247135	1.4404 (316L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	70.00	64.00	
9615247134	1.4404 (316L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	70.00	62.00	
9615247140	1.4404 (316L)	DN65	70.00/66.00 x 2.00	53.00/50.00 x 1.50	80.00	78.50	
9615247137	1.4404 (316L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	80.00	70.50	
9615247138	1.4404 (316L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	80.00	72.50	
9615247139	1.4404 (316L)	DN65	70.00/66.00 x 2.00	41.00/38.00 x 1.50	80.00	74.50	
9615247144	1.4404 (316L)	DN80	85.00/81.00 x 2.00	53.00/50.00 x 1.50	90.00	86.00	
9615247145	1.4404 (316L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	90.00	87.50	
9615247142	1.4404 (316L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	90.00	80.00	
9615247141	1.4404 (316L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	90.00	78.00	
9615247143	1.4404 (316L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	90.00	82.00	
9615247148	1.4404 (316L)	DN100	104.00/100.00 x 2.00	53.00/50.00 x 1.50	100.00	95.50	
9615247149	1.4404 (316L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	100.00	97.00	
9615247150	1.4404 (316L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	100.00	99.50	
9615247146	1.4404 (316L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	100.00	92.50	
9615247147	1.4404 (316L)	DN100	104.00/100.00 x 2.00	41.00/38.00 x 1.50	100.00	94.00	
9615247167	1.4404 (316L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	100.00	92.50	
9615247151	1.4404 (316L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	187.50	104.50	
9615247152	1.4404 (316L)	DN125	129.00/125.00 x 2.00	53.00/50.00 x 1.50	187.50	107.00	
9615247154	1.4404 (316L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	187.50	112.00	
9615247155	1.4404 (316L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	187.50	112.50	
9615247153	1.4404 (316L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	187.50	109.50	
9615247157	1.4404 (316L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	225.00	124.00	
9615247156	1.4404 (316L)	DN150	154.00/150.00 x 2.00	53.00/50.00 x 1.50	225.00	123.50	
9615247158	1.4404 (316L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	225.00	124.50	
9615247159	1.4404 (316L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	225.00	125.00	
9615247160	1.4404 (316L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	225.00	200.0	
9615247168	1.4404 (316L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	300.00	115.00	

Item no.	Material	Size	Dimension (mm)			
			OD1/ID1 x t1	OD2/ID2 x t2	L1	L2
HSF3 (ID=0.8/OD=0.8)						
9615247170	1.4404 (316L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	300.00	150.00
9615247169	1.4404 (316L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	300.00	130.00
9615247171	1.4404 (316L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	300.00	225.00
9615247172	1.4404 (316L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	300.00	250.00



Item no.	Material	Size	Dimension (mm)				
			OD1/ID1 x t1	OD2/ID2 x t2	L1	L2	
							HSF2 (ID=0.8/OD=1.6)
9615227901	1.4307 (304L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	55.00	19.00	
9615227902	1.4307 (304L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	60.00	22.00	
9615227903	1.4307 (304L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	60.00	22.50	
9615227904	1.4307 (304L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	70.00	28.00	
9615227905	1.4307 (304L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	70.00	28.50	
9615227906	1.4307 (304L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	70.00	29.00	
9615227907	1.4307 (304L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	80.00	37.00	
9615227908	1.4307 (304L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	80.00	37.00	
9615227909	1.4307 (304L)	DN65	70.00/66.00 x 2.00	41.00/38.00 x 1.50	80.00	37.50	
9615227910	1.4307 (304L)	DN65	70.00/66.00 x 2.00	53.00/50.00 x 1.50	80.00	38.50	
9615227911	1.4307 (304L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	90.00	45.00	
9615227912	1.4307 (304L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	90.00	45.00	
9615227913	1.4307 (304L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	90.00	45.00	
9615227914	1.4307 (304L)	DN80	85.00/81.00 x 2.00	53.00/50.00 x 1.50	90.00	45.00	
9615227915	1.4307 (304L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	90.00	47.50	
9615227961	1.4307 (304L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	100.00	55.50	
9615227916	1.4307 (304L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	100.00	55.50	
9615227917	1.4307 (304L)	DN100	104.00/100.00 x 2.00	41.00/38.00 x 1.50	100.00	55.50	
9615227918	1.4307 (304L)	DN100	104.00/100.00 x 2.00	53.00/50.00 x 1.50	100.00	55.50	
9615227919	1.4307 (304L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	100.00	57.00	
9615227920	1.4307 (304L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	100.00	57.00	
9615227921	1.4307 (304L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	187.50	69.50	
9615227922	1.4307 (304L)	DN125	129.00/125.00 x 2.00	53.00/50.00 x 1.50	187.50	69.50	
9615227923	1.4307 (304L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	187.50	69.50	
9615227924	1.4307 (304L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	187.50	69.50	
9615227925	1.4307 (304L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	187.50	70.50	
9615227926	1.4307 (304L)	DN150	154.00/150.00 x 2.00	53.00/50.00 x 1.50	225.00	82.00	
9615227927	1.4307 (304L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	225.00	82.00	
9615227928	1.4307 (304L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	225.00	82.00	
9615227929	1.4307 (304L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	225.00	83.00	
9615227930	1.4307 (304L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	225.00	86.50	
9615227962	1.4307 (304L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	300.00	108.00	
9615227963	1.4307 (304L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	300.00	108.00	
9615227964	1.4307 (304L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	300.00	108.00	
9615227965	1.4307 (304L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	300.00	111.50	
9615227966	1.4307 (304L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	300.00	115.00	
9615227931	1.4404 (316L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	55.00	19.00	
9615227932	1.4404 (316L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	60.00	22.00	
9615227933	1.4404 (316L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	60.00	22.50	
9615227934	1.4404 (316L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	70.00	28.00	
9615227935	1.4404 (316L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	70.00	28.50	
9615227936	1.4404 (316L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	70.00	29.00	
9615227937	1.4404 (316L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	80.00	37.00	
9615227938	1.4404 (316L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	80.00	37.00	
9615227939	1.4404 (316L)	DN65	70.00/66.00 x 2.00	41.00/38.00 x 1.50	80.00	37.50	
9615227940	1.4404 (316L)	DN65	70.00/66.00 x 2.00	53.00/50.00 x 1.50	80.00	38.50	
9615227941	1.4404 (316L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	90.00	45.00	

Item no.	Material	Size	Dimension (mm)			
			OD1/ID1 x t1	OD2/ID2 x t2	L1	L2
HSF2 (ID=0.8/OD=1.6)						
9615227942	1.4404 (316L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	90.00	45.00
9615227943	1.4404 (316L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	90.00	45.00
9615227944	1.4404 (316L)	DN80	85.00/81.00 x 2.00	53.00/50.00 x 1.50	90.00	46.00
9615227945	1.4404 (316L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	90.00	47.50
9615227967	1.4404 (316L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	100.00	55.50
9615227946	1.4404 (316L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	100.00	55.50
9615227947	1.4404 (316L)	DN100	104.00/100.00 x 2.00	41.00/38.00 x 1.50	100.00	55.50
9615227948	1.4404 (316L)	DN100	104.00/100.00 x 2.00	53.00/50.00 x 1.50	100.00	55.50
9615227949	1.4404 (316L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	100.00	57.00
9615227950	1.4404 (316L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	100.00	57.00
9615227951	1.4404 (316L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	187.50	69.50
9615227952	1.4404 (316L)	DN125	129.00/125.00 x 2.00	53.00/50.00 x 1.50	187.50	69.50
9615227953	1.4404 (316L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	187.50	69.50
9615227954	1.4404 (316L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	187.50	69.50
9615227955	1.4404 (316L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	187.50	70.50
9615227956	1.4404 (316L)	DN150	154.00/150.00 x 2.00	53.00/50.00 x 1.50	225.00	82.00
9615227957	1.4404 (316L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	225.00	82.00
9615227958	1.4404 (316L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	225.00	82.00
9615227959	1.4404 (316L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	225.00	83.00
9615227960	1.4404 (316L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	225.00	86.50
9615227968	1.4404 (316L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	300.00	108.00
9615227969	1.4404 (316L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	300.00	108.00
9615227970	1.4404 (316L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	300.00	108.00
9615227971	1.4404 (316L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	300.00	111.50
9615227972	1.4404 (316L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	300.00	115.00
HSF3 (ID=0.8/OD=0.8)						
9615247201	1.4307 (304L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	55.00	19.00
9615247202	1.4307 (304L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	60.00	22.00
9615247203	1.4307 (304L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	60.00	22.50
9615247205	1.4307 (304L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	70.00	28.50
9615247206	1.4307 (304L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	70.00	29.00
9615247204	1.4307 (304L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	70.00	28.00
9615247209	1.4307 (304L)	DN65	70.00/66.00 x 2.00	41.00/38.00 x 1.50	80.00	37.50
9615247207	1.4307 (304L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	80.00	37.00
9615247208	1.4307 (304L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	80.00	37.00
9615247210	1.4307 (304L)	DN65	70.00/66.00 x 2.00	53.00/50.00 x 1.50	80.00	38.50
9615247215	1.4307 (304L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	90.00	47.50
9615247211	1.4307 (304L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	90.00	45.00
9615247213	1.4307 (304L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	90.00	45.00
9615247212	1.4307 (304L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	90.00	45.00
9615247214	1.4307 (304L)	DN80	85.00/81.00 x 2.00	53.00/50.00 x 1.50	90.00	45.00
9615247216	1.4307 (304L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	100.00	55.50
9615247217	1.4307 (304L)	DN100	104.00/100.00 x 2.00	41.00/38.00 x 1.50	100.00	55.50
9615247218	1.4307 (304L)	DN100	104.00/100.00 x 2.00	53.00/50.00 x 1.50	100.00	55.50
9615247219	1.4307 (304L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	100.00	57.00
9615247220	1.4307 (304L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	100.00	57.00
9615247261	1.4307 (304L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	100.00	55.50



Item no.	Material	Size	Dimension (mm)				
			OD1/ID1 x t1	OD2/ID2 x t2	L1	L2	
							HSF3 (ID=0.8/OD=0.8)
9615247221	1.4307 (304L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	187.50	69.50	
9615247222	1.4307 (304L)	DN125	129.00/125.00 x 2.00	53.00/50.00 x 1.50	187.50	69.50	
9615247223	1.4307 (304L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	187.50	69.50	
9615247224	1.4307 (304L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	187.50	69.50	
9615247225	1.4307 (304L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	187.50	70.50	
9615247226	1.4307 (304L)	DN150	154.00/150.00 x 2.00	53.00/50.00 x 1.50	225.00	82.00	
9615247227	1.4307 (304L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	225.00	82.00	
9615247228	1.4307 (304L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	225.00	82.00	
9615247229	1.4307 (304L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	225.00	83.00	
9615247230	1.4307 (304L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	225.00	86.50	
9615247263	1.4307 (304L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	300.00	108.00	
9615247262	1.4307 (304L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	300.00	108.00	
9615247264	1.4307 (304L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	300.00	108.00	
9615247265	1.4307 (304L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	300.00	111.50	
9615247266	1.4307 (304L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	300.00	115.00	
9615247231	1.4404 (316L)	DN32	35.00/32.00 x 1.50	29.00/26.00 x 1.50	55.00	19.00	
9615247232	1.4404 (316L)	DN40	41.00/38.00 x 1.50	29.00/26.00 x 1.50	60.00	22.00	
9615247233	1.4404 (316L)	DN40	41.00/38.00 x 1.50	35.00/32.00 x 1.50	60.00	22.50	
9615247235	1.4404 (316L)	DN50	53.00/50.00 x 1.50	35.00/32.00 x 1.50	70.00	28.50	
9615247234	1.4404 (316L)	DN50	53.00/50.00 x 1.50	29.00/26.00 x 1.50	70.00	28.00	
9615247236	1.4404 (316L)	DN50	53.00/50.00 x 1.50	41.00/38.00 x 1.50	70.00	29.00	
9615247240	1.4404 (316L)	DN65	70.00/66.00 x 2.00	53.00/50.00 x 1.50	80.00	38.50	
9615247238	1.4404 (316L)	DN65	70.00/66.00 x 2.00	35.00/32.00 x 1.50	80.00	37.00	
9615247237	1.4404 (316L)	DN65	70.00/66.00 x 2.00	29.00/26.00 x 1.50	80.00	37.00	
9615247239	1.4404 (316L)	DN65	70.00/66.00 x 2.00	41.00/38.00 x 1.50	80.00	37.50	
9615247244	1.4404 (316L)	DN80	85.00/81.00 x 2.00	53.00/50.00 x 1.50	90.00	46.00	
9615247242	1.4404 (316L)	DN80	85.00/81.00 x 2.00	35.00/32.00 x 1.50	90.00	45.00	
9615247241	1.4404 (316L)	DN80	85.00/81.00 x 2.00	29.00/26.00 x 1.50	90.00	45.00	
9615247243	1.4404 (316L)	DN80	85.00/81.00 x 2.00	41.00/38.00 x 1.50	90.00	45.00	
9615247245	1.4404 (316L)	DN80	85.00/81.00 x 2.00	70.00/66.00 x 2.00	90.00	47.50	
9615247246	1.4404 (316L)	DN100	104.00/100.00 x 2.00	35.00/32.00 x 1.50	100.00	55.50	
9615247247	1.4404 (316L)	DN100	104.00/100.00 x 2.00	41.00/38.00 x 1.50	100.00	55.50	
9615247248	1.4404 (316L)	DN100	104.00/100.00 x 2.00	53.00/50.00 x 1.50	100.00	55.50	
9615247249	1.4404 (316L)	DN100	104.00/100.00 x 2.00	70.00/66.00 x 2.00	100.00	57.00	
9615247250	1.4404 (316L)	DN100	104.00/100.00 x 2.00	85.00/81.00 x 2.00	100.00	57.00	
9615247267	1.4404 (316L)	DN100	104.00/100.00 x 2.00	29.00/26.00 x 1.50	100.00	55.50	
9615247251	1.4404 (316L)	DN125	129.00/125.00 x 2.00	41.00/38.00 x 1.50	187.50	69.50	
9615247252	1.4404 (316L)	DN125	129.00/125.00 x 2.00	53.00/50.00 x 1.50	187.50	69.50	
9615247253	1.4404 (316L)	DN125	129.00/125.00 x 2.00	70.00/66.00 x 2.00	187.50	69.50	
9615247254	1.4404 (316L)	DN125	129.00/125.00 x 2.00	85.00/81.00 x 2.00	187.50	69.50	
9615247255	1.4404 (316L)	DN125	129.00/125.00 x 2.00	104.00/100.00 x 2.00	187.50	70.50	
9615247256	1.4404 (316L)	DN150	154.00/150.00 x 2.00	53.00/50.00 x 1.50	225.00	82.00	
9615247257	1.4404 (316L)	DN150	154.00/150.00 x 2.00	70.00/66.00 x 2.00	225.00	82.00	
9615247258	1.4404 (316L)	DN150	154.00/150.00 x 2.00	85.00/81.00 x 2.00	225.00	82.00	
9615247259	1.4404 (316L)	DN150	154.00/150.00 x 2.00	104.00/100.00 x 2.00	225.00	83.00	
9615247260	1.4404 (316L)	DN150	154.00/150.00 x 2.00	129.00/125.00 x 2.00	225.00	86.50	
9615247268	1.4404 (316L)	DN200	204.00/200.00 x 2.00	70.00/66.00 x 2.00	300.00	108.00	

Item no.	Material	Size	Dimension (mm)				
			OD1/ID1 x t1	OD2/ID2 x t2	L1	L2	
HSF3 (ID=0.8/OD=0.8)							
9615247270	1.4404 (316L)	DN200	204.00/200.00 x 2.00	104.00/100.00 x 2.00	300.00	108.00	
9615247269	1.4404 (316L)	DN200	204.00/200.00 x 2.00	85.00/81.00 x 2.00	300.00	108.00	
9615247271	1.4404 (316L)	DN200	204.00/200.00 x 2.00	129.00/125.00 x 2.00	300.00	111.50	
9615247272	1.4404 (316L)	DN200	204.00/200.00 x 2.00	154.00/150.00 x 2.00	300.00	115.00	

Item no.	Material	Size	Dimension (mm)			
			OD/ID x t	L1	L2	
HSF2 (ID=0.8/OD=1.6)						
9615227504	1.4307 (304L)	DN15	23.00/20.00 x 1.50	35.00	11.00	
9615227505	1.4307 (304L)	DN20	29.00/26.00 x 1.50	40.00	13.00	
9615227506	1.4307 (304L)	DN25	35.00/32.00 x 1.50	50.00	16.00	
9615227507	1.4307 (304L)	DN32	41.00/38.00 x 1.50	55.00	19.50	
9615227508	1.4307 (304L)	DN40	53.00/50.00 x 1.50	60.00	23.00	
9615227509	1.4307 (304L)	DN50	70.00/66.00 x 2.00	70.00	30.00	
9615227510	1.4307 (304L)	DN65	85.00/81.00 x 2.00	80.00	40.00	
9615227511	1.4307 (304L)	DN80	104.00/100.00 x 2.00	90.00	47.50	
9615227512	1.4307 (304L)	DN100	129.00/125.00 x 2.00	100.00	58.00	
9615227513	1.4307 (304L)	DN125	154.00/150.00 x 2.00	187.50	74.00	
9615227514	1.4307 (304L)	DN150	204.00/200.00 x 2.00	225.00	90.00	
9615227531	1.4307 (304L)	DN200	19.00/16.00 x 1.50	300.00	115.00	
9615227516	1.4404 (316L)	DN15	23.00/20.00 x 1.50	35.00	11.00	
9615227517	1.4404 (316L)	DN20	29.00/26.00 x 1.50	40.00	13.00	
9615227518	1.4404 (316L)	DN25	35.00/32.00 x 1.50	50.00	16.00	
9615227519	1.4404 (316L)	DN32	41.00/38.00 x 1.50	55.00	19.50	
9615227520	1.4404 (316L)	DN40	53.00/50.00 x 1.50	60.00	23.00	
9615227521	1.4404 (316L)	DN50	70.00/66.00 x 2.00	70.00	30.00	
9615227522	1.4404 (316L)	DN65	85.00/81.00 x 2.00	80.00	40.00	
9615227523	1.4404 (316L)	DN80	104.00/100.00 x 2.00	90.00	47.50	
9615227524	1.4404 (316L)	DN100	129.00/125.00 x 2.00	100.00	58.00	
9615227525	1.4404 (316L)	DN125	154.00/150.00 x 2.00	187.50	74.00	
9615227526	1.4404 (316L)	DN150	204.00/200.00 x 2.00	225.00	90.00	
9615227532	1.4404 (316L)	DN200	204.00/200.00 x 2.00	300.00	115.00	
HSF3 (ID=0.8/OD=0.8)						
9612928701	1.4307 (304L)	DN15	19.00/16.00 x 1.50	35.00	11.00	
9612928702	1.4307 (304L)	DN20	35.00/32.00 x 1.50	40.00	13.00	
9612928703	1.4307 (304L)	DN25	53.00/50.00 x 1.50	50.00	16.00	
9612928704	1.4307 (304L)	DN32	19.00/16.00 x 1.50	55.00	19.50	
9612928705	1.4307 (304L)	DN40	41.00/38.00 x 1.50	60.00	23.00	
9612928706	1.4307 (304L)	DN50	29.00/26.00 x 1.50	70.00	30.00	
9611304580	1.4307 (304L)	DN65	70.00/66.00 x 2.00	80.00	40.00	
9611304600	1.4307 (304L)	DN80	85.00/81.00 x 2.00	90.00	47.50	
9611304620	1.4307 (304L)	DN100	104.00/100.00 x 2.00	100.00	58.00	
9611304640	1.4307 (304L)	DN125	129.00/125.00 x 2.00	187.50	74.00	
9612150053	1.4307 (304L)	DN150	154.00/150.00 x 2.00	225.00	90.00	
9615227533	1.4307 (304L)	DN200	204.00/200.00 x 2.00	300.00	115.00	
9612928711	1.4404 (316L)	DN15	23.00/20.00 x 1.50	35.00	11.00	
9612928712	1.4404 (316L)	DN20	35.00/32.00 x 1.50	40.00	13.00	
9612928713	1.4404 (316L)	DN25	41.00/38.00 x 1.50	50.00	16.00	
9612928714	1.4404 (316L)	DN32	35.00/32.00 x 1.50	55.00	19.50	
9612928715	1.4404 (316L)	DN40	53.00/50.00 x 1.50	60.00	23.00	
9612928716	1.4404 (316L)	DN50	53.00/50.00 x 1.50	70.00	30.00	
9611304582	1.4404 (316L)	DN65	85.00/81.00 x 2.00	80.00	40.00	
9611304602	1.4404 (316L)	DN80	104.00/100.00 x 2.00	90.00	47.50	
9611304622	1.4404 (316L)	DN100	104.00/100.00 x 2.00	100.00	58.00	
9611304642	1.4404 (316L)	DN125	129.00/125.00 x 2.00	187.50	74.00	

Item no.	Material	Size	Dimension (mm)			
			OD/ID x t	L1	L2	
HSF3 (ID=0.8/OD=0.8)						
9612150040	1.4404 (316L)	DN150	154.00/150.00 x 2.00	225.00	90.00	
9615227534	1.4404 (316L)	DN200	204.00/200.00 x 2.00	300.00	115.00	

Item no.	Material	Size	Dimension (mm)			Model		
			A	B	C			
C expanding								
3131800391	1.4307 (304L)	DN25	52.00 x 1/6	29.00	28.20	Male		
3131800392	1.4307 (304L)	DN32	58.00 x 1/6	32.00	34.20	Male		
3131800393	1.4307 (304L)	DN40	65.00 x 1/6	33.00	40.20	Male		
3131800394	1.4307 (304L)	DN50	78.00 x 1/6	35.00	52.20	Male		
3131800395	1.4307 (304L)	DN65	95.00 x 1/6	40.00	70.30	Male		
3131800396	1.4307 (304L)	DN80	110.00 x 1/4	45.00	85.30	Male		
3131800398	1.4307 (304L)	DN100	130.00 x 1/4	54.00	104.30	Male		
9611306602	1.4404 (316L)	DN25	52.00 x 1/6	29.00	28.20	Male		
9611306612	1.4404 (316L)	DN32	58.00 x 1/6	32.00	34.20	Male		
9611306622	1.4404 (316L)	DN40	65.00 x 1/6	33.00	40.20	Male		
9611306632	1.4404 (316L)	DN50	78.00 x 1/6	35.00	52.20	Male		
9611306642	1.4404 (316L)	DN65	95.00 x 1/6	40.00	70.30	Male		
9611306652	1.4404 (316L)	DN80	110.00 x 1/4	45.00	85.30	Male		
9611306662	1.4404 (316L)	DN100	130.00 x 1/4	54.00	104.30	Male		
D expanding								
3131800151	1.4307 (304L)	DN25	44.00	22.00	28.20	Liner		
3131800152	1.4307 (304L)	DN32	50.00	25.00	34.20	Liner		
3131800153	1.4307 (304L)	DN40	56.00	26.00	40.20	Liner		
3131800154	1.4307 (304L)	DN50	68.00	28.00	52.20	Liner		
3131800155	1.4307 (304L)	DN65	86.00	32.00	70.30	Liner		
3131800156	1.4307 (304L)	DN80	100.0	37.00	85.30	Liner		
3131800158	1.4307 (304L)	DN100	121.00	44.00	104.30	Liner		
9611306672	1.4404 (316L)	DN25	44.00	22.00	28.20	Liner		
9611306682	1.4404 (316L)	DN32	50.00	25.00	34.20	Liner		
9611306692	1.4404 (316L)	DN40	56.00	26.00	40.20	Liner		
9611306702	1.4404 (316L)	DN50	68.00	28.00	52.20	Liner		
9611306712	1.4404 (316L)	DN65	86.00	32.00	70.30	Liner		
9611306722	1.4404 (316L)	DN80	100.0	37.00	85.30	Liner		
9611306732	1.4404 (316L)	DN100	121.00	44.00	104.30	Liner		

Item no.	Material	Size	Dimension (mm)			Model	
			OD/ID x t	A	B		
S							
9612151340	1.4307/EPDM	DN25	29.00/26.00 x 1.50	63.00	31.00	Union	
9612151341	1.4307/EPDM	DN32	35.00/32.00 x 1.50	70.00	31.00	Union	
9612151342	1.4307/EPDM	DN40	41.00/38.00 x 1.50	78.00	31.00	Union	
9612151343	1.4307/EPDM	DN50	53.00/50.00 x 1.50	92.00	33.00	Union	
9612151344	1.4307/EPDM	DN65	70.00/66.00 x 2.00	112.00	35.00	Union	
9612151345	1.4307/EPDM	DN80	85.00/81.00 x 2.00	127.00	35.00	Union	
9612151346	1.4307/EPDM	DN100	104.00/100.00 x 2.00	148.00	41.00	Union	
9612151347	1.4307/EPDM	DN125	129.00/125.00 x 2.00	178.00	68.00	Union	
SC							
9611306100	1.4307 (304L)	DN10	13.00/10.00 x 1.50	28.00 x 1/8	21.00	Male	
9611306110	1.4307 (304L)	DN15	19.00/16.00 x 1.50	34.00 x 1/8	21.00	Male	
9611290081	1.4307 (304L)	DN20	23.00/20.00 x 1.50	44.00 x 1/6	24.00	Male	
9611301103	1.4307 (304L)	DN25	29.00/26.00 x 1.50	52.00 x 1/6	29.00	Male	
9611301104	1.4307 (304L)	DN32	35.00/32.00 x 1.50	58.00 x 1/6	32.00	Male	
9611301105	1.4307 (304L)	DN40	41.00/38.00 x 1.50	65.00 x 1/6	33.00	Male	
9611301106	1.4307 (304L)	DN50	53.00/50.00 x 1.50	78.00 x 1/6	35.00	Male	
9611301107	1.4307 (304L)	DN65	70.00/66.00 x 2.00	95.00 x 1/6	40.00	Male	
9611301108	1.4307 (304L)	DN80	85.00/81.00 x 2.00	110.00 x 1/4	45.00	Male	
9611301110	1.4307 (304L)	DN100	104.00/100.00 x 2.00	130.00 x 1/4	54.00	Male	
9611306130	1.4307 (304L)	DN125	129.00/125.00 x 2.00	160.00 x 1/4	46.00	Male	
9611306140	1.4307 (304L)	DN150	154.00/150.00 x 2.00	190.00 x 1/4	50.00	Male	
9611306101	1.4404 (316L)	DN10	13.00/10.00 x 1.50	28.00 x 1/8	21.00	Male	
9611306111	1.4404 (316L)	DN15	19.00/16.00 x 1.50	34.00 x 1/8	21.00	Male	
9611290082	1.4404 (316L)	DN20	23.00/20.00 x 1.50	44.00 x 1/6	24.00	Male	
9611331103	1.4404 (316L)	DN25	29.00/26.00 x 1.50	52.00 x 1/6	29.00	Male	
9611331104	1.4404 (316L)	DN32	35.00/32.00 x 1.50	58.00 x 1/6	32.00	Male	
9611331105	1.4404 (316L)	DN40	41.00/38.00 x 1.50	65.00 x 1/6	33.00	Male	
9611331106	1.4404 (316L)	DN50	53.00/50.00 x 1.50	78.00 x 1/6	35.00	Male	
9611331107	1.4404 (316L)	DN65	70.00/66.00 x 2.00	95.00 x 1/6	40.00	Male	
9611331108	1.4404 (316L)	DN80	85.00/81.00 x 2.00	110.00 x 1/4	45.00	Male	
9611331110	1.4404 (316L)	DN100	104.00/100.00 x 2.00	130.00 x 1/4	54.00	Male	
9611306131	1.4404 (316L)	DN125	129.00/125.00 x 2.00	160.00 x 1/4	46.00	Male	
9611306141	1.4404 (316L)	DN150	154.00/150.00 x 2.00	190.00 x 1/4	50.00	Male	

Item no.	Material	Size	Dimension (mm)			Model	
			OD/ID x t	A	B		
							SD
9611306150	1.4307 (304L)	DN10	13.00/10.00 x 1.50	22.00	17.00	Liner	
9611306160	1.4307 (304L)	DN15	19.00/16.00 x 1.50	28.00	17.00	Liner	
9611290091	1.4307 (304L)	DN20	23.00/20.00 x 1.50	36.00	18.00	Liner	
9611301111	1.4307 (304L)	DN25	29.00/26.00 x 1.50	44.00	22.00	Liner	
9611301112	1.4307 (304L)	DN32	35.00/32.00 x 1.50	50.00	25.00	Liner	
9611301113	1.4307 (304L)	DN40	41.00/38.00 x 1.50	56.00	26.00	Liner	
9611301114	1.4307 (304L)	DN50	53.00/50.00 x 1.50	68.00	28.00	Liner	
9611301115	1.4307 (304L)	DN65	70.00/66.00 x 2.00	86.00	32.00	Liner	
9611301116	1.4307 (304L)	DN80	85.00/81.00 x 2.00	100.00	37.00	Liner	
9611301118	1.4307 (304L)	DN100	104.00/100.00 x 2.00	121.00	44.00	Liner	
9611306180	1.4307 (304L)	DN125	129.00/125.00 x 2.00	150.00	34.00	Liner	
9611306190	1.4307 (304L)	DN150	154.00/150.00 x 2.00	176.00	37.00	Liner	
9611306151	1.4404 (316L)	DN10	13.00/10.00 x 1.50	22.00	17.00	Liner	
9611306161	1.4404 (316L)	DN15	19.00/16.00 x 1.50	28.00	17.00	Liner	
9611290092	1.4404 (316L)	DN20	23.00/20.00 x 1.50	36.00	18.00	Liner	
9611331111	1.4404 (316L)	DN25	29.00/26.00 x 1.50	44.00	22.00	Liner	
9611331112	1.4404 (316L)	DN32	35.00/32.00 x 1.50	50.00	25.00	Liner	
9611331113	1.4404 (316L)	DN40	41.00/38.00 x 1.50	56.00	26.00	Liner	
9611331114	1.4404 (316L)	DN50	53.00/50.00 x 1.50	68.00	28.00	Liner	
9611331115	1.4404 (316L)	DN65	70.00/66.00 x 2.00	86.00	32.00	Liner	
9611331116	1.4404 (316L)	DN80	85.00/81.00 x 2.00	100.00	37.00	Liner	
9611331118	1.4404 (316L)	DN100	104.00/100.00 x 2.00	121.00	44.00	Liner	
9611306181	1.4404 (316L)	DN125	129.00/125.00 x 2.00	150.00	34.00	Liner	
9611306191	1.4404 (316L)	DN150	154.00/150.00 x 2.00	176.00	37.00	Liner	

Item no.	Material	Size	Dimension (mm)			Model	
			OD/ID x t	A	B		
SK short							
9611305790	1.4307/NBR	DN10	13.00/10.00 x 1.50	38.00	25.00	Union	
9611305800	1.4307/NBR	DN15	19.00/16.00 x 1.50	44.00	25.00	Union	
9611290011	1.4307/NBR	DN20	23.00/20.00 x 1.50	54.00	25.00	Union	
9611301119	1.4307/NBR	DN25	29.00/26.00 x 1.50	63.00	31.00	Union	
9611301120	1.4307/NBR	DN32	35.00/32.00 x 1.50	70.00	31.00	Union	
9611301121	1.4307/NBR	DN40	41.00/38.00 x 1.50	78.00	31.00	Union	
9611301122	1.4307/NBR	DN50	53.00/50.00 x 1.50	92.00	33.00	Union	
9611301123	1.4307/NBR	DN65	70.00/66.00 x 2.00	112.00	35.00	Union	
9611301124	1.4307/NBR	DN80	85.00/81.00 x 2.00	127.00	35.00	Union	
9611301126	1.4307/NBR	DN100	104.00/100.00 x 2.00	148.00	41.00	Union	
9611305791	1.4404/NBR	DN10	13.00/10.00 x 1.50	38.00	25.00	Union	
9611305801	1.4404/NBR	DN15	19.00/16.00 x 1.50	44.00	25.00	Union	
9611290012	1.4404/NBR	DN20	23.00/20.00 x 1.50	54.00	25.00	Union	
9611331119	1.4404/NBR	DN25	29.00/26.00 x 1.50	63.00	31.00	Union	
9611331120	1.4404/NBR	DN32	35.00/32.00 x 1.50	70.00	31.00	Union	
9611331121	1.4404/NBR	DN40	41.00/38.00 x 1.50	78.00	31.00	Union	
9611331122	1.4404/NBR	DN50	53.00/50.00 x 1.50	92.00	33.00	Union	
9611331123	1.4404/NBR	DN65	70.00/66.00 x 2.00	112.00	35.00	Union	
9611331124	1.4404/NBR	DN80	85.00/81.00 x 2.00	127.00	35.00	Union	
9611331126	1.4404/NBR	DN100	104.00/100.00 x 2.00	148.00	41.00	Union	
SKC short							
9611305900	1.4307 (304L)	DN10	13.00/10.00 x 1.50	28.00 x 1/8	17.00	Male	
9611305910	1.4307 (304L)	DN15	19.00/16.00 x 1.50	34.00 x 1/8	17.00	Male	
9611290031	1.4307 (304L)	DN20	23.00/20.00 x 1.50	44.00 x 1/6	19.00	Male	
9611301087	1.4307 (304L)	DN25	29.00/26.00 x 1.50	52.00 x 1/6	22.00	Male	
9611301088	1.4307 (304L)	DN32	35.00/32.00 x 1.50	58.00 x 1/6	22.00	Male	
9611301089	1.4307 (304L)	DN40	41.00/38.00 x 1.50	65.00 x 1/6	22.00	Male	
9611301090	1.4307 (304L)	DN50	53.00/50.00 x 1.50	78.00 x 1/6	23.00	Male	
9611301091	1.4307 (304L)	DN65	70.00/66.00 x 2.00	95.00 x 1/6	25.00	Male	
9611301092	1.4307 (304L)	DN80	85.00/81.00 x 2.00	110.00 x 1/4	25.00	Male	
9611301094	1.4307 (304L)	DN100	104.00/100.00 x 2.00	130.00 x 1/4	30.00	Male	
9611305930	1.4307 (304L)	DN125	129.00/125.00 x 2.00	160.00 x 1/4	35.50	Male	
9611305940	1.4307 (304L)	DN150	154.00/150.00 x 2.00	190.00 x 1/4	40.00	Male	
9611305901	1.4404 (316L)	DN10	13.00/10.00 x 1.50	28.00 x 1/8	17.00	Male	
9611305911	1.4404 (316L)	DN15	19.00/16.00 x 1.50	34.00 x 1/8	17.00	Male	
9611290032	1.4404 (316L)	DN20	23.00/20.00 x 1.50	44.00 x 1/6	19.00	Male	
9611331087	1.4404 (316L)	DN25	29.00/26.00 x 1.50	52.00 x 1/6	22.00	Male	
9611331088	1.4404 (316L)	DN32	35.00/32.00 x 1.50	58.00 x 1/6	22.00	Male	
9611331089	1.4404 (316L)	DN40	41.00/38.00 x 1.50	65.00 x 1/6	22.00	Male	
9611331090	1.4404 (316L)	DN50	53.00/50.00 x 1.50	78.00 x 1/6	23.00	Male	
9611331091	1.4404 (316L)	DN65	70.00/66.00 x 2.00	95.00 x 1/6	25.00	Male	
9611331092	1.4404 (316L)	DN80	85.00/81.00 x 2.00	110.00 x 1/4	25.00	Male	
9611331094	1.4404 (316L)	DN100	104.00/100.00 x 2.00	130.00 x 1/4	30.00	Male	
9611305931	1.4404 (316L)	DN125	129.00/125.00 x 2.00	160.00 x 1/4	35.50	Male	
9611305941	1.4404 (316L)	DN150	154.00/150.00 x 2.00	190.00 x 1/4	40.00	Male	

Item no.	Material	Size	Dimension (mm)			Model	
			OD/ID x t	A	B		
SKD short							
9611305950	1.4307 (304L)	DN10	13.00/10.00 x 1.50	22.00	13.00	Liner	<p>The technical drawing shows a cross-section of a threaded union fitting. It features a central threaded section with a chamfered end. Dimension lines indicate: OD (Outer Diameter), ID (Inner Diameter), t (thread thickness), A (total length), and B (thread length). The drawing is labeled 'SKD short'.</p>
9611305960	1.4307 (304L)	DN15	19.00/16.00 x 1.50	28.00	13.00	Liner	
9611290041	1.4307 (304L)	DN20	23.00/20.00 x 1.50	36.00	13.00	Liner	
9611301095	1.4307 (304L)	DN25	29.00/26.00 x 1.50	44.00	15.00	Liner	
9611301096	1.4307 (304L)	DN32	35.00/32.00 x 1.50	50.00	15.00	Liner	
9611301097	1.4307 (304L)	DN40	41.00/38.00 x 1.50	56.00	15.00	Liner	
9611301098	1.4307 (304L)	DN50	53.00/50.00 x 1.50	68.00	16.00	Liner	
9611301099	1.4307 (304L)	DN65	70.00/66.00 x 2.00	86.00	17.00	Liner	
9611301100	1.4307 (304L)	DN80	85.00/81.00 x 2.00	100.0	17.00	Liner	
9611301102	1.4307 (304L)	DN100	104.00/100.00 x 2.00	121.00	20.00	Liner	
9611305970	1.4307 (304L)	DN125	129.00/125.00 x 2.00	150.00	23.50	Liner	
9611305980	1.4307 (304L)	DN150	154.00/150.00 x 2.00	176.00	27.00	Liner	
9611305951	1.4404 (316L)	DN10	13.00/10.00 x 1.50	22.00	13.00	Liner	
9611305961	1.4404 (316L)	DN15	19.00/16.00 x 1.50	28.00	13.00	Liner	
9611290042	1.4404 (316L)	DN20	23.00/20.00 x 1.50	36.00	13.00	Liner	
9611331095	1.4404 (316L)	DN25	29.00/26.00 x 1.50	44.00	15.00	Liner	
9611331096	1.4404 (316L)	DN32	35.00/32.00 x 1.50	50.00	15.00	Liner	
9611331097	1.4404 (316L)	DN40	41.00/38.00 x 1.50	56.00	15.00	Liner	
9611331098	1.4404 (316L)	DN50	53.00/50.00 x 1.50	68.00	16.00	Liner	
9611331099	1.4404 (316L)	DN65	70.00/66.00 x 2.00	86.00	17.00	Liner	
9611331100	1.4404 (316L)	DN80	85.00/81.00 x 2.00	100.0	17.00	Liner	
9611331102	1.4404 (316L)	DN100	104.00/100.00 x 2.00	121.00	20.00	Liner	
9611305971	1.4404 (316L)	DN125	129.00/125.00 x 2.00	150.00	23.50	Liner	
9611305981	1.4404 (316L)	DN150	154.00/150.00 x 2.00	176.00	27.00	Liner	

Item no.	Material	Size	Dimension (mm)					
			OD/ID x t	A	B	C		D
BBS								
9615330701	1.4404 (316L)	DN10		21.90	18.00	9.00	3.00	
9615330702	1.4404 (316L)	DN15		27.90	24.00	9.00	3.00	
9615330703	1.4404 (316L)	DN20		35.90	30.00	10.00	3.00	
9615330704	1.4404 (316L)	DN25		42.90	35.00	12.00	3.00	
9615330705	1.4404 (316L)	DN32		48.90	41.00	13.00	3.00	
9615330706	1.4404 (316L)	DN40		54.90	48.00	13.00	3.00	
9615330707	1.4404 (316L)	DN50		66.90	61.00	14.00	3.00	
9615330708	1.4404 (316L)	DN65		84.90	79.00	16.00	4.00	
9615330709	1.4404 (316L)	DN80		98.90	93.00	16.00	4.00	
9615330710	1.4404 (316L)	DN100		118.90	114.00	20.00	5.00	
BGS male								
9615330601	1.4404 (316L)	DN10		22.00	12.00	28.00 x 1/8	4.00	
9615330602	1.4404 (316L)	DN15		28.00	12.00	34.00 x 1/8	4.00	
9615330603	1.4404 (316L)	DN20		36.00	14.00	44.00 x 1/6	5.00	
9615330604	1.4404 (316L)	DN25		43.00	14.00	52.00 x 1/6	6.00	
9615330605	1.4404 (316L)	DN32		49.00	14.00	58.00 x 1/6	7.00	
9615330606	1.4404 (316L)	DN40		55.00	14.00	65.00 x 1/6	7.00	
9615330607	1.4404 (316L)	DN50		67.00	14.00	78.00 x 1/6	7.00	
9615330608	1.4404 (316L)	DN65		85.00	16.00	95.00 x 1/6	8.00	
9615330609	1.4404 (316L)	DN80		99.00	20.00	110.00 x 1/4	8.00	
9615330610	1.4404 (316L)	DN100		119.00	20.00	130.00 x 1/4	10.00	
BS								
8010000583	1.4307 (304L)	DN25	29.00/26.00 x 1.50	42.90	22.00			
8010000585	1.4307 (304L)	DN32	35.00/32.00 x 1.50	48.90	25.00			
8010000586	1.4307 (304L)	DN40	41.00/38.00 x 1.50	54.90	26.00			
8010000587	1.4307 (304L)	DN50	53.00/50.00 x 1.50	66.90	30.00			
8010000589	1.4307 (304L)	DN65	70.00/66.00 x 2.00	84.90	34.00			
8010000590	1.4307 (304L)	DN80	85.00/81.00 x 2.00	98.90	38.00			
8010000591	1.4307 (304L)	DN100	104.00/100.00 x 2.00	118.90	46.00			
9615363101	1.4404 (316L)	DN10	13.00/10.00 x 1.50	21.90	17.00			
9615363102	1.4404 (316L)	DN15	19.00/16.00 x 1.50	27.90	17.00			
9615363103	1.4404 (316L)	DN20	23.00/20.00 x 1.50	35.90	18.00			
9612928844	1.4404 (316L)	DN25	29.00/26.00 x 1.50	42.90	22.00			
9612928845	1.4404 (316L)	DN32	35.00/32.00 x 1.50	48.90	25.00			
9612928846	1.4404 (316L)	DN40	41.00/38.00 x 1.50	54.90	26.00			
9612928847	1.4404 (316L)	DN50	53.00/50.00 x 1.50	66.90	30.00			

Item no.	Material	Size	Dimension (mm)				D	
			OD/ID x t	A	B	C		
BS								
9612928848	1.4404 (316L)	DN65	70.00/66.00 x 2.00	84.90	34.00			
9612928849	1.4404 (316L)	DN80	85.00/81.00 x 2.00	98.90	38.00			
9612928850	1.4404 (316L)	DN100	104.00/100.00 x 2.00	118.90	46.00			
GS								
9615362901	1.4404 (316L)	DN10	13.00/10.00 x 1.50		19.00	28.00 x 1/8		
9615362902	1.4404 (316L)	DN15	19.00/16.00 x 1.50		19.00	34.00 x 1/8		
9615362903	1.4404 (316L)	DN20	23.00/20.00 x 1.50		21.00	44.00 x 1/6		
9612928834	1.4404 (316L)	DN25	29.00/26.00 x 1.50		26.00	52.00 x 1/6		
9612928835	1.4404 (316L)	DN32	35.00/32.00 x 1.50		30.00	58.00 x 1/6		
9612928836	1.4404 (316L)	DN40	41.00/38.00 x 1.50		31.00	65.00 x 1/6		
9612928837	1.4404 (316L)	DN50	53.00/50.00 x 1.50		31.00	78.00 x 1/6		
9612928838	1.4404 (316L)	DN65	70.00/66.00 x 2.00		36.00	95.00 x 1/6		
9612928839	1.4404 (316L)	DN80	85.00/81.00 x 2.00		42.00	110.00 x 1/4		
9612928840	1.4404 (316L)	DN100	104.00/100.00 x 2.00		50.00	130.00 x 1/4		

Item no.	Material	Size	Dimension (mm)			Model	
			OD/ID x t	A	B		
BS							
9613403911	1.4404 (316L)	DN10	13.00/10.00 x 1.50		39.00	Liner	
9613403912	1.4404 (316L)	DN15	19.00/16.00 x 1.50		39.00	Liner	
9613403913	1.4404 (316L)	DN20	23.00/20.00 x 1.50		38.00	Liner	
9613403914	1.4404 (316L)	DN25	29.00/26.00 x 1.50		40.00	Liner	
9613403915	1.4404 (316L)	DN32	35.00/32.00 x 1.50		47.00	Liner	
9613403916	1.4404 (316L)	DN40	41.00/38.00 x 1.50		47.00	Liner	
9613403917	1.4404 (316L)	DN50	53.00/50.00 x 1.50		48.00	Liner	
9613403918	1.4404 (316L)	DN65	70.00/66.00 x 2.00		61.00	Liner	
9613403919	1.4404 (316L)	DN80	85.00/81.00 x 2.00		61.00	Liner	
9613403920	1.4404 (316L)	DN100	104.00/100.00 x 2.00		66.00	Liner	
GS							
9613403901	1.4404 (316L)	DN10	13.00/10.00 x 1.50	28.00 x 3/8	41.00	Male	
9613403902	1.4404 (316L)	DN15	19.00/16.00 x 1.50	34.00 x 1/8	41.00	Male	
9613403903	1.4404 (316L)	DN20	23.00/20.00 x 1.50	44.00 x 1/6	43.00	Male	
9613403904	1.4404 (316L)	DN25	29.00/26.00 x 1.50	52.00 x 1/6	43.00	Male	
9613403905	1.4404 (316L)	DN32	35.00/32.00 x 1.50	58.00 x 1/6	48.00	Male	
9613403906	1.4404 (316L)	DN40	41.00/38.00 x 1.50	65.00 x 1/6	48.00	Male	
9613403907	1.4404 (316L)	DN50	53.00/50.00 x 1.50	78.00 x 1/6	48.00	Male	
9613403908	1.4404 (316L)	DN65	70.00/66.00 x 2.00	95.00 x 1/6	60.0	Male	
9613403909	1.4404 (316L)	DN80	85.00/81.00 x 2.00	110.00 x 1/4	64.00	Male	
9613403910	1.4404 (316L)	DN100	104.00/100.00 x 2.00	130.00 x 1/4	64.00	Male	

Item no.	Material	Size	Dimension (mm)				
			OD/ID x t	A	B		C
Liner, Expanding							
9611300984	1.4301 (304)	DN25		44.00	22.00	25.20	
9611300985	1.4301 (304)	DN40		56.00	26.00	38.20	
9611300986	1.4301 (304)	DN50		68.00	28.00	51.20	
9611300987	1.4301 (304)	DN65		86.00	32.00	63.80	
9611306390	1.4301 (304)	DN75		95.00	32.00	76.30	
9611300990	1.4301 (304)	DN100		121.00	44.00	101.90	
Liner, Long							
9612158003	1.4307 (304L)	DN25	38.10/35.10 x 1.50	56.00	26.00		
9612158001	1.4307 (304L)	DN25	25.40/22.90 x 1.25	44.00	22.00		
9612158002	1.4307 (304L)	DN32	31.80/29.30 x 2.00	50.00	25.00		
9612158004	1.4307 (304L)	DN50	50.80/47.80 x 1.50	68.50	28.00		
9612158005	1.4307 (304L)	DN65	63.50/60.50 x 1.50	86.00	32.00		
9612158006	1.4307 (304L)	DN75	76.10/73.10 x 1.50	93.70	32.00		
9612158008	1.4307 (304L)	DN100	101.60/97.60 x 2.00	121.00	44.00		
9612158017	1.4404 (316L)	DN25	25.40/22.90 x 1.25	44.00	22.00		
9612158018	1.4404 (316L)	DN32	31.80/29.30 x 2.00	50.00	25.00		
9612158019	1.4404 (316L)	DN40	38.10/35.10 x 1.50	56.00	26.00		
9612158020	1.4404 (316L)	DN50	50.80/47.80 x 1.50	68.50	28.00		
9612158021	1.4404 (316L)	DN50	63.50/60.50 x 1.50	86.00	32.00		
9612158022	1.4404 (316L)	DN75	76.10/73.10 x 1.50	93.70	32.00		
9612158023	1.4404 (316L)	DN80	76.10/72.10 x 2.00	100.0	37.00		
9612158024	1.4404 (316L)	DN100	101.60/97.60 x 2.00	121.00	44.00		
Liner, Short							
3131800182	1.4307 (304L)	DN25	25.00/22.60 x 1.20	44.00	18.00		
9611300721	1.4307 (304L)	DN32	33.70/31.30 x 1.20	50.00	15.00		
3131800192	1.4307 (304L)	DN40	38.00/35.60 x 1.20	56.00	18.00		
3131800202	1.4307 (304L)	DN50	51.00/48.60 x 1.20	68.00	20.00		
3131800212	1.4307 (304L)	DN65	63.50/60.30 x 1.60	86.00	20.00		
3131800222	1.4307 (304L)	DN80	76.10/72.90 x 1.60	100.0	20.00		
3131800232	1.4307 (304L)	DN100	101.60/97.60 x 2.00	121.00	23.00		
3131800181	1.4404 (316L)	DN25	25.00/22.60 x 1.20	44.00	18.00		
3131800191	1.4404 (316L)	DN40	38.00/35.60 x 1.20	56.00	18.00		
3131800201	1.4404 (316L)	DN50	51.00/48.60 x 1.20	68.00	20.00		
3131800211	1.4404 (316L)	DN65	63.50/60.30 x 1.60	86.00	20.00		
9611306071	1.4404 (316L)	DN75	76.10/73.10 x 1.50	95.00	20.00		
3131800221	1.4404 (316L)	DN80	76.10/72.90 x 1.60	100.0	20.00		
3131800231	1.4404 (316L)	DN100	101.60/97.60 x 2.00	121.00	23.00		

Item no.	Material	Size	Dimension (mm)				
			OD/ID x t	A	B		C
Male Long							
9612157902	1.4301 (304)	DN32	31.80x29.30 x 2.00	58.00 x 1/6	32.00		
9612157901	1.4307 (304L)	DN25	25.40/22.90 x 1.25	52.00 x 1/6	29.00		
9612157903	1.4307 (304L)	DN40	38.10/35.10 x 1.50	65.00 x 1/6	33.00		
9612157904	1.4307 (304L)	DN50	50.80/47.80 x 1.50	78.00 x 1/6	35.00		
9612157905	1.4307 (304L)	DN65	63.50/60.50 x 1.50	95.00 x 1/6	40.00		
9612157906	1.4307 (304L)	DN75	76.10/73.10 x 1.50	104.00 x 1/6	40.00		
9612157907	1.4307 (304L)	DN80	76.10/72.10 x 2.00	110.00 x 1/4	45.00		
9612157908	1.4307 (304L)	DN100	101.60/97.60 x 2.00	130.00 x 1/4	54.00		
9612157917	1.4404 (316L)	DN25	25.40/22.90 x 1.25	52.00 x 1/6	29.00		
9612157918	1.4404 (316L)	DN32	29.30/31.80 x 2.00	58.00 x 1/6	32.00		
9612157919	1.4404 (316L)	DN40	38.10/35.10 x 1.50	65.00 x 1/6	33.00		
9612157920	1.4404 (316L)	DN50	50.80/47.80 x 1.50	78.00 x 1/6	35.00		
9612157921	1.4404 (316L)	DN65	63.50/60.50 x 1.50	95.00 x 1/6	40.00		
9612157922	1.4404 (316L)	DN75	76.10/73.10 x 1.50	104.00 x 1/6	40.00		
9612157923	1.4404 (316L)	DN80	76.10/72.10 x 2.00	110.00 x 1/4	45.00		
9612157924	1.4404 (316L)	DN100	101.60/97.60 x 2.00	130.00 x 1/4	54.00		
Male, Expanding							
9611300977	1.4301 (304)	DN25		52.00 x 1/6	29.00	25.20	
9611306320	1.4301 (304)	DN32		58.00 x 1/6	32.00	32.20	
9611300978	1.4301 (304)	DN40		65.00 x 1/6	33.00	38.20	
9611300979	1.4301 (304)	DN50		78.00 x 1/6	35.00	51.20	
9611300980	1.4301 (304)	DN65		95.00 x 1/6	40.00	63.80	
Male, Short							
3131800072	1.4307 (304L)	DN25	25.00/22.60 x 1.20	52.00 x 1/6	22.00		
3131800082	1.4307 (304L)	DN32	33.70/31.30 x 1.20	58.00 x 1/6	22.00		
3131800092	1.4307 (304L)	DN40	38.00/35.60 x 1.20	65.00 x 1/6	22.00		
3131800102	1.4307 (304L)	DN50	51.00/48.60 x 1.20	78.00 x 1/6	22.00		
3131800112	1.4307 (304L)	DN65	63.50/60.30 x 1.60	95.00 x 1/6	25.00		
9611306020	1.4307 (304L)	DN75	76.10/73.10 x 1.50	104.00 x 1/6	30.00		
3131800122	1.4307 (304L)	DN80	76.10/72.90 x 1.60	110.00 x 1/4	30.00		
3131800342	1.4307 (304L)	DN100	101.60/97.60 x 2.00	130.00 x 1/4	30.00		
3131800071	1.4404 (316L)	DN25	25.00/22.60 x 1.20	52.00 x 1/6	22.00		
3131800091	1.4404 (316L)	DN40	38.00/35.60 x 1.20	65.00 x 1/6	22.00		
3131800101	1.4404 (316L)	DN50	51.00/48.60 x 1.20	78.00 x 1/6	22.00		
3131800111	1.4404 (316L)	DN65	63.50/60.30 x 1.60	95.00 x 1/6	25.00		
9611306021	1.4404 (316L)	DN75	76.10/73.10 x 1.50	104.00 x 1/6	30.00		
3131800121	1.4404 (316L)	DN80	76.10/72.90 x 1.60	110.00 x 1/4	30.00		
3131800341	1.4404 (316L)	DN100	101.60/97.60 x 2.00	130.00 x 1/4	30.00		

Item no.	Material	Size	Dimension (mm)			
			OD/ID x t	L	R	
HSF3 (ID=0.8/OD=0.8)						
9611293821	1.4307 (304L)	DN25	28.00/25.00 x 1.50	34.00	50.00	
9611293831	1.4307 (304L)	DN32	34.00/31.00 x 1.50	37.00	55.00	
9611293841	1.4307 (304L)	DN40	40.00/37.00 x 1.50	41.00	60.00	
9611293851	1.4307 (304L)	DN50	52.00/49.00 x 1.50	48.00	70.00	
9611293822	1.4404 (316L)	DN25	28.00/25.00 x 1.50	34.00	50.00	
9611293832	1.4404 (316L)	DN32	34.00/31.00 x 1.50	37.00	55.00	
9611293842	1.4404 (316L)	DN40	40.00/37.00 x 1.50	41.00	60.00	
9611293852	1.4404 (316L)	DN50	52.00/49.00 x 1.50	48.00	70.00	

Item no.	Material	Size	Dimension (mm)				
			OD/ID x t	L	R		
Expanding, HSF3 (ID=0.8/OD=0.8)							
9611304120	1.4307 (304L)	DN10	12.00/9.00 x 1.50	38.00	26.00		
9611304130	1.4307 (304L)	DN15	18.00/15.00 x 1.50	47.00	35.00		
9611293921	1.4307 (304L)	DN20	22.00/19.00 x 1.50	52.00	40.00		
9611304140	1.4307 (304L)	DN25	28.00/25.00 x 1.50	70.00	50.00		
9611304150	1.4307 (304L)	DN32	34.00/31.00 x 1.50	78.00	55.00		
9611304160	1.4307 (304L)	DN40	40.00/37.00 x 1.50	85.00	60.00		
9611304170	1.4307 (304L)	DN50	52.00/49.00 x 1.50	97.00	70.00		
9611304122	1.4404 (316L)	DN10	12.00/9.00 x 1.50	38.00	26.00		
9611304132	1.4404 (316L)	DN15	18.00/15.00 x 1.50	47.00	35.00		
9611293922	1.4404 (316L)	DN20	22.00/19.00 x 1.50	52.00	40.00		
9611304142	1.4404 (316L)	DN25	28.00/25.00 x 1.50	70.00	50.00		
9611304152	1.4404 (316L)	DN32	34.00/31.00 x 1.50	78.00	55.00		
9611304162	1.4404 (316L)	DN40	129.00/125.00 x 2.00	85.00	60.00		
9611304172	1.4404 (316L)	DN50	70.00/66.00 x 2.00	97.00	70.00		
Short, HSF3 (ID=0.8/OD=0.8)							
9611309100	1.4307 (304L)	DN10	12.00/9.00 x 1.50	26.00	26.00		
9611301060	1.4307 (304L)	DN15	18.00/15.00 x 1.50	35.00	35.00		
9611301061	1.4307 (304L)	DN20	22.00/19.00 x 1.50	40.00	40.00		
9611301062	1.4307 (304L)	DN25	28.00/25.00 x 1.50	50.00	50.00		
9611301063	1.4307 (304L)	DN32	34.00/31.00 x 1.50	55.20	55.00		
9611301064	1.4307 (304L)	DN40	40.00/37.00 x 1.50	60.00	60.00		
9611301065	1.4307 (304L)	DN50	52.00/49.00 x 1.50	70.00	70.00		
9611309101	1.4404 (316L)	DN10	12.00/9.00 x 1.50	26.00	26.00		
9611309111	1.4404 (316L)	DN15	18.00/15.00 x 1.50	35.00	35.00		
9611309131	1.4404 (316L)	DN20	22.00/19.00 x 1.50	40.00	40.00		
9611309121	1.4404 (316L)	DN25	28.00/25.00 x 1.50	50.00	50.00		
9611309141	1.4404 (316L)	DN32	34.00/31.00 x 1.50	55.20	55.00		
9611309151	1.4404 (316L)	DN40	40.00/37.00 x 1.50	60.00	60.00		
9611309161	1.4404 (316L)	DN50	52.00/49.00 x 1.50	70.00	70.00		
Standard, HSF2 (ID=0.8/OD=1.6)							
9615220009	1.4307 (304L)	DN10	13.00/10.00 x 1.50	38.00	26.00		
9615220010	1.4307 (304L)	DN15	19.00/16.00 x 1.50	47.00	35.00		
9615220011	1.4307 (304L)	DN20	23.00/20.00 x 1.50	52.00	40.00		
9615220012	1.4307 (304L)	DN25	29.00/26.00 x 1.50	70.00	50.00		
9615220013	1.4307 (304L)	DN32	35.00/32.00 x 1.50	78.00	55.00		
9615220014	1.4307 (304L)	DN40	41.00/38.00 x 1.50	85.00	60.00		
9615220015	1.4307 (304L)	DN50	53.00/50.00 x 1.50	97.00	70.00		
9615220016	1.4307 (304L)	DN65	70.00/66.00 x 2.00	110.00	80.00		
9615220017	1.4307 (304L)	DN80	85.00/81.00 x 2.00	118.00	90.00		
9615220018	1.4307 (304L)	DN100	104.00/100.00 x 2.00	140.00	100.00		
9615220021	1.4404 (316L)	DN10	13.00/10.00 x 1.50	38.00	26.00		
9615220022	1.4404 (316L)	DN15	19.00/16.00 x 1.50	47.00	35.00		
9615220023	1.4404 (316L)	DN20	23.00/20.00 x 1.50	52.00	40.00		
9615220024	1.4404 (316L)	DN25	29.00/26.00 x 1.50	70.00	50.00		
9615220025	1.4404 (316L)	DN32	35.00/32.00 x 1.50	78.00	55.00		
9615220026	1.4404 (316L)	DN40	41.00/38.00 x 1.50	85.00	60.00		
9615220027	1.4404 (316L)	DN50	53.00/50.00 x 1.50	97.00	70.00		

Item no.	Material	Size	Dimension (mm)			
			OD/ID x t	L	R	
Standard, HSF2 (ID=0.8/OD=1.6)						
9615220028	1.4404 (316L)	DN65	70.00/66.00 x 2.00	110.00	80.00	
9615220029	1.4404 (316L)	DN80	85.00/81.00 x 2.00	118.00	90.00	
9615220030	1.4404 (316L)	DN100	104.00/100.00 x 2.00	140.00	100.00	
Standard, HSF3 (ID=0.8/OD=0.8)						
9612154558	1.4307 (304L)	DN10	13.00/10.00 x 1.50	38.00	26.00	
9612154559	1.4307 (304L)	DN15	19.00/16.00 x 1.50	47.00	35.00	
9612154560	1.4307 (304L)	DN20	23.00/20.00 x 1.50	52.00	40.00	
9612154561	1.4307 (304L)	DN25	29.00/26.00 x 1.50	70.00	50.00	
9612154562	1.4307 (304L)	DN32	35.00/32.00 x 1.50	78.00	55.00	
9612154563	1.4307 (304L)	DN40	41.00/38.00 x 1.50	85.00	60.00	
9612154564	1.4307 (304L)	DN50	53.00/50.00 x 1.50	97.00	70.00	
9611304060	1.4307 (304L)	DN65	70.00/66.00 x 2.00	110.00	80.00	
9611304080	1.4307 (304L)	DN80	85.00/81.00 x 2.00	118.00	90.00	
9611304090	1.4307 (304L)	DN100	104.00/100.00 x 2.00	140.00	100.00	
9612154508	1.4404 (316L)	DN10	13.00/10.00 x 1.50	38.00	26.00	
9612154509	1.4404 (316L)	DN15	19.00/16.00 x 1.50	47.00	35.00	
9612154510	1.4404 (316L)	DN20	23.00/20.00 x 1.50	52.00	40.00	
9612154511	1.4404 (316L)	DN25	29.00/26.00 x 1.50	70.00	50.00	
9612154512	1.4404 (316L)	DN32	35.00/32.00 x 1.50	78.00	55.00	
9612154513	1.4404 (316L)	DN40	41.00/38.00 x 1.50	85.00	60.00	
9612154514	1.4404 (316L)	DN50	53.00/50.00 x 1.50	97.00	70.00	
9611304062	1.4404 (316L)	DN65	70.00/66.00 x 2.00	110.00	80.00	
9611304082	1.4404 (316L)	DN80	85.00/81.00 x 2.00	118.00	90.00	
9611304092	1.4404 (316L)	DN100	104.00/100.00 x 2.00	140.00	100.00	

Item no.	Material	Size	Dimension (mm)		
			OD/ID x t	L	
Equal					
9611309220	1.4307 (304L)	DN10	12.00/9.00 x 1.50	26.00	
9611309230	1.4307 (304L)	DN15	18.00/15.00 x 1.50	35.00	
9611309240	1.4307 (304L)	DN20	22.00/19.00 x 1.50	40.00	
9611309250	1.4307 (304L)	DN25	28.00/25.00 x 1.50	50.00	
9611309260	1.4307 (304L)	DN32	34.00/31.00 x 1.50	55.00	
9611309270	1.4307 (304L)	DN40	40.00/37.00 x 1.50	60.00	
9611309280	1.4307 (304L)	DN50	52.00/49.00 x 1.50	70.00	
9611309221	1.4404 (316L)	DN10	12.00/9.00 x 1.50	26.00	
9611309231	1.4404 (316L)	DN15	18.00/15.00 x 1.50	35.00	
9611309241	1.4404 (316L)	DN20	22.00/19.00 x 1.50	40.00	
9611309251	1.4404 (316L)	DN25	28.00/25.00 x 1.50	50.00	
9611309261	1.4404 (316L)	DN32	34.00/31.00 x 1.50	55.00	
9611309271	1.4404 (316L)	DN40	40.00/37.00 x 1.50	60.00	
9611309281	1.4404 (316L)	DN50	52.00/49.00 x 1.50	70.00	

ALSIS Code: 5044

Model: Hose liner
 Standard: Fit to DIN
 Finish: HSF0 (ID=0.8/OD=1.6)

Item no.	Material	Size	Dimension (mm)					n x K	
			A	B	C	D			
Beer									
9612157704	1.4301 (304)	DN25	80.00	63.00	24.00	27.00			
9612157706	1.4301 (304)	DN40	105.00	84.00	32.00	43.00			
9612157707	1.4301 (304)	DN50	120.00	97.00	45.00	53.00			
9612157708	1.4301 (304)	DN65	140.00	113.00	60.00	68.00			
9612157709	1.4301 (304)	DN80	160.00	132.00	74.00	83.00			
9612157710	1.4301 (304)	DN100	180.00	141.00	93.00	103.00			
Hose									
9615386501	1.4404 (316L)	DN15	28.30	12.00	19.00	40.00	3 x 6		
9615386502	1.4404 (316L)	DN20	36.30	16.00	23.00	40.00	3 x 6		
9615386503	1.4404 (316L)	DN25	43.80	23.00	29.00	53.00	3 x 8		
9615386504	1.4404 (316L)	DN32	49.80	29.50	35.00	53.00	3 x 8		
9615386505	1.4404 (316L)	DN40	55.80	35.00	41.00	63.00	3 x 9		
9615386506	1.4404 (316L)	DN50	68.30	46.00	53.00	68.00	3 x 10		
9615386507	1.4404 (316L)	DN65	85.60	65.00	70.00	77.00	3 x 10		
9615386508	1.4404 (316L)	DN80	99.40	80.00	85.00	87.00	3 x 12		
9615386509	1.4404 (316L)	DN100	120.40	98.00	104.00	110.00	3 x 15		

Item no.	Material	Size	Dimension (mm)				
			A	B	C		
Nut							
9611291271	1.4307 (304L)	DN10	38.00	19.00	28.00 x 1/8		
9611291281	1.4307 (304L)	DN15	44.00	19.00	34.00 x 1/8		
9611291291	1.4307 (304L)	DN20	54.00	21.00	44.00 x 1/6		
9611291301	1.4307 (304L)	DN25	63.00	22.00	52.00 x 1/6		
9611291311	1.4307 (304L)	DN32	70.00	22.00	58.00 x 1/6		
9611291321	1.4307 (304L)	DN40	78.00	22.00	65.00 x 1/6		
9611291331	1.4307 (304L)	DN50	92.00	23.00	78.00 x 1/6		
9611291341	1.4307 (304L)	DN65	112.00	26.00	95.00 x 1/6		
9611291351	1.4307 (304L)	DN80	127.00	30.00	110.00 x 1/4		
9611291371	1.4307 (304L)	DN100	148.00	33.00	130.00 x 1/4		
9611291381	1.4307 (304L)	DN125	178.00	36.00	160.00 x 1/4		
9611291391	1.4307 (304L)	DN150	210.00	41.00	190.00 x 1/4		
9612152201	1.4404 (316L)	DN10	38.00	19.00	28.00 x 1/8		
9612152202	1.4404 (316L)	DN15	44.00	19.00	34.00 x 1/8		
9612152203	1.4404 (316L)	DN20	54.00	21.00	44.00 x 1/6		
9612152204	1.4404 (316L)	DN25	63.00	22.00	52.00 x 1/6		
9612152205	1.4404 (316L)	DN32	70.00	22.00	58.00 x 1/6		
9612152206	1.4404 (316L)	DN40	78.00	22.00	65.00 x 1/6		
9612152207	1.4404 (316L)	DN50	92.00	23.00	78.00 x 1/6		
9612152208	1.4404 (316L)	DN65	112.00	26.00	95.00 x 1/6		
9612152209	1.4404 (316L)	DN80	127.00	30.00	110.00 x 1/4		
9612152210	1.4404 (316L)	DN100	148.00	33.00	130.00 x 1/4		
9612152211	1.4404 (316L)	DN125	178.00	36.00	160.00 x 1/4		
9612152212	1.4404 (316L)	DN150	210.00	41.00	190.00 x 1/4		
Nut-chain-NBRseal							
9611291411	1.4307 (304L)	DN10	38.00	18.00	28.00 x 1/8		
9611291421	1.4307 (304L)	DN15	44.00	18.00	34.00 x 1/8		
9611291431	1.4307 (304L)	DN20	54.00	21.00	44.00 x 1/6		
9611291441	1.4307 (304L)	DN25	63.00	22.00	52.00 x 1/6		
9611291451	1.4307 (304L)	DN32	70.00	22.00	58.00 x 1/6		
9611291461	1.4307 (304L)	DN40	78.00	22.00	65.00 x 1/6		
9611291471	1.4307 (304L)	DN50	92.00	22.00	78.00 x 1/6		
9611291481	1.4307 (304L)	DN65	112.00	25.00	95.00 x 1/6		
9611291491	1.4307 (304L)	DN80	127.00	29.00	110.00 x 1/4		
9611291511	1.4307 (304L)	DN100	148.00	31.00	130.00 x 1/4		
9611291521	1.4307 (304L)	DN125	178.00	34.00	160.00 x 1/4		
9611291531	1.4307 (304L)	DN150	210.00	40.00	190.00 x 1/4		
9612152301	1.4404 (316L)	DN10	38.00	18.00	28.00 x 1/8		
9612152302	1.4404 (316L)	DN15	44.00	18.00	34.00 x 1/8		
9612152303	1.4404 (316L)	DN20	54.00	21.00	44.00 x 1/6		
9612152304	1.4404 (316L)	DN25	63.00	21.00	52.00 x 1/6		
9612152305	1.4404 (316L)	DN32	70.00	22.00	58.00 x 1/6		
9612152306	1.4404 (316L)	DN40	78.00	21.00	65.00 x 1/6		
9612152307	1.4404 (316L)	DN50	92.00	22.00	78.00 x 1/6		
9612152308	1.4404 (316L)	DN65	112.00	25.00	95.00 x 1/6		
9612152309	1.4404 (316L)	DN80	127.00	29.00	110.00 x 1/4		
9612152310	1.4404 (316L)	DN100	148.00	31.00	130.00 x 1/4		

Fit to DIN Nut End Caps

Hygienic fittings

ALSIS Code: 5044

Model: End cap
 Standard: Fit to DIN
 Finish: HSF0 (ID=0.8/OD=1.6)

Item no.	Material	Size	Dimension (mm)			
			A	B	C	
Nut-chain-NBRseal						
9612152311	1.4404 (316L)	DN125	178.00	34.00	160.00 x 1/4	
9612152312	1.4404 (316L)	DN150	210.00	40.00	190.00 x 1/4	

Item no.	Size	Dimension (mm)				
		OD/ID x t	A	B		C
Collar PN10						
9612492905	DN65	70.00/66.00 x 2.00	110.00	25.00	10.00	
9612492906	DN80	85.00/81.00 x 2.00	125.00	25.00	10.00	
9612492907	DN100	104.00/100.00 x 2.00	143.00	25.00	10.00	
9612492908	DN125	129.00/125.00 x 2.00	171.00	30.00	15.00	
9612492909	DN150	154.00/150.00 x 2.00	196.00	30.00	15.00	
Collar PN16						
9612492901	DN25	29.00/26.00 x 1.50	64.00	25.00	10.00	
9612492902	DN32	35.00/32.00 x 1.50	64.00	25.00	10.00	
9612492903	DN40	41.00/38.00 x 1.50	72.00	25.00	10.00	
9612492904	DN50	53.00/50.00 x 1.50	91.00	25.00	10.00	
Complete flange P10						
9612498707	DN100	104.00/100.00 x 2.00	160.00	50.00	8.00 x M8	

ALSIS Code: 5044

Model: Flange
 Standard: Fit to EN10357-A
 Finish: HSF0 (ID=0.8/OD=1.6)
 Material: 1.4404 (316L)

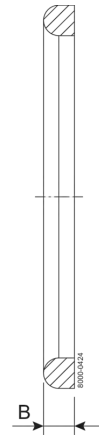
Item no.	Size	Dimension (mm)				
		OD/ID x t	A	B	C	
Complete flange P16						
9612498701	DN25	29.00/26.00 x 1.50	79.00	50.00	4.00 x M8	
Complete flange PN10						
9612498705	DN65	70.00/66.00 x 2.00	125.00	50.00	4.00 x M8	
9612498706	DN80	85.00/81.00 x 2.00	140.00	50.00	8.00 x M8	
9612498708	DN125	129.00/125.00 x 2.00	190.00	60.00	8.00 x M10	
9612498709	DN150	154.00/150.00 x 2.00	215.00	60.00	8.00 x M10	
Complete flange PN16						
9612498702	DN32	35.00/32.00 x 1.50	79.00	50.00	4.00 x M8	
9612498703	DN40	41.00/38.00 x 1.50	87.00	50.00	4.00 x M8	
9612498704	DN50	53.00/50.00 x 1.50	106.00	50.00	4.00 x M8	

ALSIS Code: 5044

Model: Flange
 Standard: Fit to EN10357-A
 Finish: HSF0 (ID=0.8/OD=1.6)
 Material: 1.4404 (316L)

Item no.	Size	Dimension (mm)				
		OD/ID x t	A	B		C
Groove PN10						
9612493005	DN65	70.00/66.00 x 2.00	110.00	25.00	10.00	
9612493006	DN80	85.00/81.00 x 2.00	125.00	25.00	10.00	
9612493007	DN100	104.00/100.00 x 2.00	143.00	25.00	10.00	
9612493008	DN125	129.00/125.00 x 2.00	171.00	30.00	15.00	
9612493009	DN150	154.00/150.00 x 2.00	196.00	30.00	15.00	
Groove PN16						
9612493001	DN25	29.00/26.00 x 1.50	64.00	25.00	10.00	
9612493002	DN32	35.00/32.00 x 1.50	64.00	25.00	10.00	
9612493003	DN40	41.00/38.00 x 1.50	72.00	25.00	10.00	
9612493004	DN50	53.00/50.00 x 1.50	91.00	25.00	10.00	

Item no.	Material	Size	Dimension (mm)		
			A	B	C
B=8.0					
9611991851	EPDM (E)	DN25		8.00	
9611991852	EPDM (E)	DN32		8.00	
9611991853	EPDM (E)	DN40		8.00	
9611991854	EPDM (E)	DN50		8.00	
9611991855	EPDM (E)	DN65		8.00	
9611991856	EPDM (E)	DN75		8.00	
9611991857	EPDM (E)	DN80		8.00	
9611991858	EPDM (E)	DN100		8.00	
9611991838	NBR	DN25		8.00	
9611991839	NBR	DN32		8.00	
9611991840	NBR	DN40		8.00	
9611991841	NBR	DN50		8.00	
9611991842	NBR	DN65		8.00	
9611991843	NBR	DN75		8.00	
9611991844	NBR	DN80		8.00	
9611991845	NBR	DN100		8.00	



Item no.	Material	Size	Dimension (mm)			
			A	B	C	
Clamp Seal						
9611992019	PTFE (G)	DN10	36.20	5.10		
9611992020	PTFE (G)	DN15	36.20	5.10		
9611992021	PTFE (G)	DN20	36.20	5.10		
9611992022	PTFE (G)	DN25	52.70	5.10		
9611992023	PTFE (G)	DN32	52.70	5.10		
9611992024	PTFE (G)	DN40	52.70	5.10		
9611992025	PTFE (G)	DN50	66.20	5.10		
9611992026	PTFE (G)	DN65	93.20	5.10		
9611992027	PTFE (G)	DN80	108.20	5.10		
9611992028	PTFE (G)	DN100	121.20	5.10		

Item no.	Material	Size	Dimension (mm)			
			A	B	C	
Flange						
9612402601	EPDM (E)	DN25	37.20	37.20	4.10	
9612402602	EPDM (E)	DN32	43.20	43.20	4.10	
9612402603	EPDM (E)	DN40	49.20	49.20	4.10	
9612402604	EPDM (E)	DN50	61.20	61.20	4.10	
9612402605	EPDM (E)	DN65	77.20	77.20	4.10	
9612402606	EPDM (E)	DN80	92.20	92.20	4.10	
9612402607	EPDM (E)	DN100	111.20	111.20	4.10	
9612402608	EPDM (E)	DN125	136.20	136.20	4.10	
9612402609	EPDM (E)	DN150	161.20	161.20	4.10	
9612402621	FPM	DN25	37.20	37.20	4.10	
9612402622	FPM	DN32	43.20	43.20	4.10	
9612402623	FPM	DN40	49.20	49.20	4.10	
9612402624	FPM	DN50	61.20	61.20	4.10	
9612402625	FPM	DN65	77.20	77.20	4.10	
9612402626	FPM	DN80	92.20	92.20	4.10	
9612402627	FPM	DN100	111.20	111.20	4.10	
9612402628	FPM	DN125	136.20	136.20	4.10	
9612402629	FPM	DN150	161.20	161.20	4.10	
9612402611	Silicone (Q)	DN25	37.20	37.20	4.10	
9612402612	Silicone (Q)	DN32	43.20	43.20	4.10	
9612402613	Silicone (Q)	DN40	49.20	49.20	4.10	
9612402614	Silicone (Q)	DN50	61.20	61.20	4.10	
9612402615	Silicone (Q)	DN65	77.20	77.20	4.10	
9612402616	Silicone (Q)	DN80	92.20	92.20	4.10	
9612402617	Silicone (Q)	DN100	111.20	111.20	4.10	
9612402618	Silicone (Q)	DN125	136.20	136.20	4.10	
9612402619	Silicone (Q)	DN150	161.20	161.20	4.10	
Seal disc						
9611291131	NBR	DN10	28.00	3.00		
9611291141	NBR	DN15	34.00	3.00		
9611291151	NBR	DN20	44.00	3.00		
9611291161	NBR	DN25	52.00	3.00		
9611291171	NBR	DN32	58.00	3.00		
9611291181	NBR	DN40	65.00	3.00		
9611291191	NBR	DN50	78.00	3.00		
9611291201	NBR	DN65	95.00	3.00		
9611291221	NBR	DN80	110.00	3.00		
9611291241	NBR	DN100	130.00	3.00		
9611291251	NBR	DN125	160.00	3.00		
9611291261	NBR	DN150	190.00	3.00		

Item no.	Material	Size	Dimension (mm)			
			A	B	C	
Seal ring 5-7 mm						
9611900253	EPDM (E)	DN10	10.50	20.00	5.00	
9611900254	EPDM (E)	DN15	16.50	26.00	5.00	
9611900255	EPDM (E)	DN20	20.50	33.00	5.00	
9611900256	EPDM (E)	DN25	26.50	40.00	6.00	
9611900257	EPDM (E)	DN32	32.50	46.00	6.00	
9611900258	EPDM (E)	DN40	38.50	52.00	6.00	
9611900259	EPDM (E)	DN50	50.50	64.00	6.00	
9611900260	EPDM (E)	DN65	66.50	81.00	6.00	
9611900261	EPDM (E)	DN80	81.50	88.00	6.00	
9611900263	EPDM (E)	DN100	100.50	104.00	6.00	
9611900264	EPDM (E)	DN125	125.00	142.00	7.00	
9611900265	EPDM (E)	DN150	150.00	167.00	7.00	

Item no.	Material	Size	Dimension (mm)		
			D	L	
Half socket					
9611295693	1.4404 (316L)	0.5"	26.40	15.00	
9611295703	1.4404 (316L)	0.75"	31.80	16.50	
9611295723	1.4404 (316L)	1 1/4"	48.30	21.50	
9611295713	1.4404 (316L)	1"	39.50	19.00	
9611295733	1.4404 (316L)	1.5"	54.50	21.50	
9611295673	1.4404 (316L)	1/4"	18.00	11.00	
9611295743	1.4404 (316L)	2"	66.30	26.00	
9611295753	1.4404 (316L)	2.5"	82.00	30.00	
9611295683	1.4404 (316L)	3/8"	21.30	11.50	
9611295763	1.4571	3"	95.00	33.00	
Socket					
9611295473	1.4404 (316L)	0.5"	26.40	34.00	
9611295483	1.4404 (316L)	0.75"	31.80	36.00	
9611295503	1.4404 (316L)	1 1/4"	48.30	48.00	
9611295493	1.4404 (316L)	1"	39.50	43.00	
9611295513	1.4404 (316L)	1.5"	54.50	48.00	
9611295453	1.4404 (316L)	1/4"	18.00	25.00	
9611295443	1.4404 (316L)	1/8"	14.00	17.00	
9611295523	1.4404 (316L)	2"	66.30	56.00	
9611295543	1.4404 (316L)	3"	95.00	71.00	
9611295463	1.4404 (316L)	3/8"	21.30	26.00	
W					
9611295914	1.4571	0.5"		35.00	
9611295924	1.4571	0.75"		40.00	
9611295944	1.4571	1 1/4"		50.00	
9611295934	1.4571	1"		40.00	
9611295954	1.4571	1.5"		50.00	
9611295894	1.4571	1/4"		30.00	
9611295884	1.4571	1/8"		30.00	
9611295964	1.4571	2"		55.00	
9611295974	1.4571	2.5"		60.00	
9611295984	1.4571	3"		65.00	
9611295904	1.4571	3/8"		30.00	

ALSIS Code: 5038

Model: Tee
 Standard: Fit to DIN
 Finish: HSF3 (ID=0.8/OD=0.8)

Item no.	Material	Size	Dimension (mm)			
			OD/ID x t	L1	L2	
Short						
9612150004	1.4307 (304L)	DN25	28.00/25.00 x 1.50	50.00	15.50	
9612150005	1.4307 (304L)	DN32	34.00/31.00 x 1.50	55.00	18.50	
9612150006	1.4307 (304L)	DN40	40.00/37.00 x 1.50	60.00	21.50	
9612150007	1.4307 (304L)	DN50	52.00/49.00 x 1.50	70.00	29.50	
9612150032	1.4404 (316L)	DN25	28.00/25.00 x 1.50	50.00	15.50	
9612150033	1.4404 (316L)	DN32	34.00/31.00 x 1.50	55.00	18.50	
9612150034	1.4404 (316L)	DN40	40.00/37.00 x 1.50	60.00	21.50	
9612150035	1.4404 (316L)	DN50	154.00/150.00 x 2.00	70.00	29.50	

ALSIS Code: 5043

Model: Adapter
 Standard: ISO 2037
 Finish: Machined
 Material: 1.4307 (304L)

Item no.	Size	Dimension (mm)					
	mm	A	B	C	D	E	
Male SMS/BSP							
190502	25.0 mm	40.00 x 1/6	30.00	1.00	22.50	15.00	
190506	38.0 mm	60.00 x 1/6	42.00	1.50	35.50	23.00	
190508	51.0 mm	70.00 x 1/6	47.00	2.00	48.50	28.00	
190510	63.5 mm	85.00 x 1/6	55.00	2.50	60.50	32.00	
Male SMS/Female BSP							
190514	25.0 mm	40.00 x 1/6	30.00	1.00	22.50	15.00	
190518	38.0 mm	60.00 x 1/6	42.00	1.50	35.50	23.00	
190520	51.0 mm	70.00 x 1/6	47.00	2.00	48.50	28.00	
190522	63.5 mm	85.00 x 1/6	55.00	2.50	60.50	32.00	

Item no.	Material	Size mm	Dimension (mm)			
			OD/ID x t	A	B	
Bend 90/Nut/Liner/Male						
190760	1.4307 (304L)	25.0 mm	25.00/22.60 x 1.20	55.00	55.00	
190762	1.4307 (304L)	38.0 mm	38.00/35.60 x 1.20	70.00	70.00	
190763	1.4307 (304L)	51.0 mm	51.00/48.60x1.20	82.00	82.00	
190765	1.4307 (304L)	76.1 mm	76.10/72.10 x 2.00	110.00	110.00	
191029	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20	55.00	55.00	
191031	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	70.00	70.00	
191032	1.4404 (316L)	51.0 mm	51.00/48.60x1.20	82.00	82.00	
191033	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	105.00	105.00	
191034	1.4404 (316L)	76.1 mm	76.10/72.10 x 2.00	110.00	110.00	

Item no.	Material	Size mm	Dimension (mm)			
			OD/ID x t	L1	L2	
POL (ID=0.8/OD=1.0)						
9613404301	1.4307 (304L)	25.0 mm	25.00/22.60 x 1.20	70.00	47.00	
9613404302	1.4307 (304L)	38.0 mm	38.00/35.60 x 1.20	87.00	63.00	
9613404303	1.4307 (304L)	51.0 mm	51.00/48.60 x 1.20	119.50	86.50	
9613404304	1.4307 (304L)	63.5 mm	63.50/60.30 x 1.60	136.00	101.00	
9613404305	1.4307 (304L)	76.1 mm	76.10/72.10 x 2.00	157.00	119.00	
9613404306	1.4307 (304L)	101.6 mm	101.60/97.60 x 2.00	226.50	166.00	
9613404307	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20	70.00	47.00	
9613404308	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	87.00	63.00	
9613404309	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	119.50	86.50	
9613404310	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	136.00	101.00	
9613404311	1.4404 (316L)	76.1 mm	76.10/72.10 x 2.00	157.00	119.00	
9613404312	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	226.50	166.00	
SB (ID=0.8/OD=1.0)						
9611300661	1.4307 (304L)	25.0 mm	25.00/22.60 x 1.20	70.00	47.00	
9611300662	1.4307 (304L)	38.0 mm	38.00/35.60 x 1.20	87.00	63.00	
9611300663	1.4307 (304L)	51.0 mm	51.00/48.60 x 1.20	119.50	86.50	
9611300664	1.4307 (304L)	63.5 mm	63.50/60.30 x 1.60	136.00	101.00	
9611300665	1.4307 (304L)	76.1 mm	76.10/72.10 x 2.00	157.00	119.00	
9611300778	1.4307 (304L)	101.6 mm	101.60/97.60 x 2.00	226.50	166.00	
9611300809	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20	70.00	47.00	
9611300810	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	87.00	63.00	
9611300811	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	119.50	86.50	
9611300812	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	136.00	101.00	
9611300813	1.4404 (316L)	76.1 mm	76.10/72.10 x 2.00	157.00	119.00	
9611300667	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	226.50	166.00	

Item no.	Material	Size	Dimension (mm)				
			mm	OD/ID x t	L	L1	
1.5xD, ID:RAW=0.8/OD:POL=1.0							
9613404201	1.4307 (304L)	25.0 mm	25.00/22.60 x 1.20	38.00		37.50	
9613404202	1.4307 (304L)	38.0 mm	38.00/35.60 x 1.20	57.00		57.00	
9613404203	1.4307 (304L)	51.0 mm	51.00/48.60 x 1.20	76.00		76.50	
9613404204	1.4307 (304L)	63.5 mm	63.50/60.30 x 1.60	95.00		95.30	
9613404205	1.4307 (304L)	76.1 mm	76.10/72.90 x 1.60	114.00		114.20	
9613404206	1.4307 (304L)	101.6 mm	101.60/97.60 x 2.00	152.00		152.50	
9613404207	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20	38.00		37.50	
9613404208	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	57.00		57.00	
9613404209	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	76.00		76.50	
9613404210	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	95.00		95.30	
9613404211	1.4404 (316L)	76.1 mm	76.10/72.90 x 1.60	114.00		114.20	
9613404212	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	152.00		152.50	
1.5xD, SB (ID=0.8/OD=1.0)							
9611310010	1.4307 (304L)	25.0 mm	25.00/22.60 x 1.20	65.00		37.50	
9611310011	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20	65.00		37.50	
9611310020	1.4307 (304L)	38.0 mm	38.00/35.60 x 1.20	85.00		57.00	
9611310021	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	85.00		57.00	
9611310030	1.4307 (304L)	51.0 mm	51.00/48.60 x 1.20	110.00		76.50	
9611310031	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	110.00		76.50	
9611310040	1.4307 (304L)	63.5 mm	63.50/60.30 x 1.60	135.00		95.30	
9611310041	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	135.00		95.30	
9611310050	1.4307 (304L)	76.1 mm	76.10/72.90 x 1.60	155.00		114.20	
9611310051	1.4404 (316L)	76.1 mm	76.10/72.90 x 1.60	155.00		114.20	
9611310060	1.4307 (304L)	101.6 mm	101.60/97.60 x 2.00	195.00		152.50	
9611310061	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	195.00		152.50	
9611312661	1.4307 (304L)	25.0 mm	25.00/22.60 x 1.20	38.00		37.50	
9611312662	1.4307 (304L)	38.0 mm	38.00/35.60 x 1.20	57.00		57.00	
9611312663	1.4307 (304L)	51.0 mm	51.00/48.60 x 1.20	76.00		76.50	
9611312664	1.4307 (304L)	63.5 mm	63.50/60.30 x 1.60	95.00		95.30	
9611312665	1.4307 (304L)	76.1 mm	76.10/72.90 x 1.60	114.00		114.20	
9611312666	1.4307 (304L)	101.6 mm	101.60/97.60 x 2.00	152.00		152.50	
9611312671	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20	38.00		37.50	
9611312672	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	57.00		57.00	
9611312673	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	76.00		76.50	
9611312674	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	95.00		95.30	
9611312675	1.4404 (316L)	76.1 mm	76.10/72.90 x 1.60	114.00		114.20	
9611312676	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	152.00		152.50	
1xD Long, SB (ID=0.8/OD=1.0)							
191699	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20	55.00	255.00	25.00	
3131902671	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	70.00	270.00	38.00	
3131902751	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	82.00	282.00	51.00	
3131902831	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	105.00	305.00	64.00	
3131902911	1.4404 (316L)	76.1 mm	76.10/72.10 x 2.00	110.00	310.00	76.00	

Item no.	Material	Size	Dimension (mm)				
			mm	OD/ID x t	L	L1	
1xD, ID:RAW=0.8/OD:POL=1.0							
9612027715	1.4307 (304L)	25.0 mm	25.00 x 1.20	55.00		25.00	
9612027717	1.4307 (304L)	38.0 mm	38.00 x 1.20	70.00		38.00	
9612027718	1.4307 (304L)	51.0 mm	51.00 x 1.20	82.00		51.00	
9612027719	1.4307 (304L)	63.5 mm	63.50 x 1.60	105.00		64.00	
9612027720	1.4307 (304L)	76.1 mm	76.10 x 2.00	110.00		76.00	
9612027722	1.4404 (316L)	25.0 mm	25.00 x 1.20	55.00		25.00	
9612027724	1.4404 (316L)	38.0 mm	38.00 x 1.20	70.00		38.00	
9612027725	1.4404 (316L)	51.0 mm	51.00 x 1.20	82.00		51.00	
9612027726	1.4404 (316L)	63.5 mm	63.50 x 1.60	105.00		64.00	
9612027727	1.4404 (316L)	76.1 mm	76.10 x 2.00	110.00		76.00	
1xD, SB (ID=0.8/OD=1.0)							
190683	1.4307 (304L)	25.0 mm	25.00/22.60 x 1.20	55.00		25.00	
191507	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20	55.00		25.00	
3131902101	1.4307 (304L)	38.0 mm	38.00/35.60 x 1.20	70.00		38.00	
3131902111	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	70.00		38.00	
3131902181	1.4307 (304L)	51.0 mm	51.00/48.60 x 1.20	82.00		51.00	
3131902191	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	82.00		51.00	
3131902261	1.4307 (304L)	63.5 mm	63.50/60.30 x 1.60	105.00		64.00	
3131902271	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	105.00		64.00	
3131902341	1.4307 (304L)	76.1 mm	76.00/72.00 x 2.00	110.00		76.00	
3131902351	1.4404 (316L)	76.1 mm	76.00/72.00 x 2.00	110.00		76.00	
3xD Long, ID:RAW=0.8/OD:POL=1.0							
9612928268	1.4307 (304L)	25.4 mm	25.40/22.90 x 1.25	115.00		75.00	
9612928269	1.4307 (304L)	31.8 mm	31.80/29.30 x 1.25	136.00		93.00	
9612928270	1.4307 (304L)	38.1 mm	38.10/35.60 x 1.25	140.00		115.00	
9612928271	1.4307 (304L)	50.8 mm	50.80/48.30 x 1.25	225.00		150.00	
9612928272	1.4307 (304L)	63.5 mm	63.50/60.50 x 1.50	240.00		185.00	
9612928273	1.4404 (316L)	76.1 mm	76.00/72.80 x 1.60	250.00		215.00	

Item no.	Size	Dimension (mm)		
	mm	A	B	
Blank				
190084	25.0 mm	35.50	3.00	
190086	38.0 mm	55.00	4.00	
190087	51.0 mm	65.00	4.00	
190088	63.5 mm	80.00	4.00	
190089	76.1 mm	93.00	5.00	
3131703341	101.6 mm	127.00	6.00	

ALSIS Code: 5031, 5045

Item no.	Material	Size	Dimension (mm)				
			mm	OD/ID x t	A	B	
							Blank
9611340590	1.4307 (304L)	25-38 mm			50.40	6.40	
9611340591	1.4307 (304L)	51.0 mm			63.90	6.40	
9611340592	1.4307 (304L)	63.5 mm			77.40	6.40	
9611340593	1.4307 (304L)	76.1 mm			90.90	6.40	
9611340600	1.4404 (316L)	25-38 mm			183.00	11.00	
9611340601	1.4404 (316L)	51.0 mm			50.40	6.40	
9611340602	1.4404 (316L)	63.5 mm			63.90	6.40	
9611340603	1.4404 (316L)	76.1 mm			77.40	6.40	
9611340604	1.4404 (316L)	101.6 mm			90.90	6.40	
9612464001	1.4404 (316L)	168.3 mm			118.90	6.40	
							Ferrule
9612990107	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20		50.50	21.50	
9612990108	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20		50.50	21.50	
9612990109	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20		64.00	21.50	
9612990110	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60		77.50	21.50	
9612990111	1.4404 (316L)	76.1 mm	76.10/72.90 x 1.60		91.00	21.50	
9612990112	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00		119.00	21.50	
							Ferrule, Expanding
9611310660	1.4301 (304)	25.0 mm			50.50	20.00	
9611310670	1.4301 (304)	38.0 mm			50.50	20.00	
9611310680	1.4301 (304)	51.0 mm			64.00	25.00	
9611310700	1.4301 (304)	76.1 mm			91.00	30.00	

ALSIS Code: 5031, 5045

Item no.	Material	Size	Dimension (mm)				
			mm	OD/ID x t	A	B	
Ferrule, Reducing							
9611310500	1.4404 (316L)	38.0 mm	25.60/22.60 x 1.50	50.50	12.00		
9611310510	1.4404 (316L)	38.0 mm	32.60/29.60 x 1.50	50.50	12.00		
9611310530	1.4404 (316L)	51.0 mm	38.60/35.60 x 1.50	64.00	12.00		
9611310550	1.4404 (316L)	63.5 mm	51.60/48.60 x 1.50	77.50	12.00		
9611310570	1.4404 (316L)	76.1 mm	64.10/60.30 x 1.90	91.00	12.00		
Seal ring							
9611991359	EPDM (E)	38.0 mm		52.70	5.50		
9611991360	EPDM (E)	51.0 mm		66.20	5.50		
9611991361	EPDM (E)	63.5 mm		79.70	5.50		
9611991362	EPDM (E)	76.1 mm		93.20	5.50		
9611991363	EPDM (E)	101.6 mm		121.20	5.50		
9611991364	EPDM (E)	114.3 mm		132.20	5.50		
9611991365	EPDM (E)	139.7 mm		157.20	5.50		
9611991366	EPDM (E)	168.3 mm		185.20	5.50		
9611991367	EPDM (E)	219.1 mm		235.70	5.50		
9611991890	FPM	25.0 mm		52.70	5.50		
9611991891	FPM	38.0 mm		52.70	5.50		
9611991892	FPM	51.0 mm		66.20	5.50		
9611991893	FPM	63.5 mm		79.70	5.50		
9611991894	FPM	76.1 mm		93.20	5.50		
9611991895	FPM	101.6 mm		121.20	5.50		
9611991896	FPM	114.3 mm		132.20	5.50		
9611991897	FPM	139.7 mm		157.20	5.50		
9611991898	FPM	168.3 mm		185.20	5.50		
9611991899	FPM	219.1 mm		235.70	5.50		
9611990765	NBR	25.0 mm		52.70	5.50		
9611990766	NBR	38.0 mm		52.70	5.50		
9611990767	NBR	51.0 mm		62.20	5.50		
9611990768	NBR	63.5 mm		79.70	5.50		
9611990769	NBR	76.1 mm		93.20	5.50		
9611990770	NBR	101.6 mm		101.60	5.50		
9611991354	NBR	114.3 mm		132.20	5.50		
9611991355	NBR	139.7 mm		157.20	5.50		
9611991356	NBR	168.3 mm		185.20	5.50		
9611991357	NBR	219.1 mm		235.70	5.50		

Item no.	Material	Size	Dimension (mm)				
			mm	OD/ID x t	A	B	
Ferrule							
9611310191	1.4307 (304L)	25.0 mm	25.60/22.60 x 1.50	50.50	21.50		
9611310201	1.4307 (304L)	38.0 mm	38.60/35.60 x 1.50	50.50	21.50		
9611310211	1.4307 (304L)	51.0 mm	51.60/48.60 x 1.50	64.00	21.50		
9611310221	1.4307 (304L)	63.5 mm	64.10/60.30 x 1.90	77.50	21.50		
9611310231	1.4307 (304L)	76.1 mm	76.70/72.90 x 1.90	91.00	21.50		
9611310241	1.4307 (304L)	101.6 mm	102.50/97.60 x 2.45	119.00	21.50		
9611310311	1.4307 (304L)	114.3 mm	115.60/110.30 x 2.65	130.00	28.00		
9611310331	1.4307 (304L)	168.3 mm	170.00/163.10 x 3.45	183.00	28.00		
9611310190	1.4404 (316L)	25.0 mm	25.60/22.60 x 1.50	50.50	21.50		
9611310192	1.4404 (316L)	25.0 mm	25.60/22.60 x 1.50	50.50	21.50		
9611310200	1.4404 (316L)	38.0 mm	38.60/35.60 x 1.50	50.50	21.50		
9611310202	1.4404 (316L)	38.0 mm	38.60/35.60 x 1.50	50.50	21.50		
9611310210	1.4404 (316L)	51.0 mm	51.60/48.60 x 1.50	64.00	21.50		
9611310212	1.4404 (316L)	51.0 mm	51.60/48.60 x 1.50	64.00	21.50		
9611310220	1.4404 (316L)	63.5 mm	64.10/60.30 x 1.90	77.50	21.50		
9611310222	1.4404 (316L)	63.5 mm	64.10/60.30 x 1.90	77.50	21.50		
9611310230	1.4404 (316L)	76.1 mm	76.70/72.90 x 1.90	91.00	21.50		
9611310240	1.4404 (316L)	101.6 mm	102.50/97.60 x 2.45	119.00	21.50		
9611310242	1.4404 (316L)	101.6 mm	102.50/97.60 x 2.45	119.00	21.50		
9611310310	1.4404 (316L)	114.3 mm	115.60/110.30 x 2.65	130.00	28.00		
9611310320	1.4404 (316L)	139.7 mm	141.20/135.70 x 2.75	155.00	28.00		
9611310330	1.4404 (316L)	168.3 mm	170.00/163.10 x 3.45	183.00	28.00		

Item no.	Material	Size mm	Dimension (mm)			Seal ring	
			OD/ID x t	A	B		D
9611991403	PTFE (G)	25.0 mm		52.70	5.10	22.60	
9611991404	PTFE (G)	38.0 mm		52.70	5.10	35.60	
9611991405	PTFE (G)	51.0 mm		66.20	5.10	48.60	
9611991406	PTFE (G)	63.5 mm		79.70	5.10	60.30	
9611991407	PTFE (G)	76.1 mm		93.20	5.10	72.90	
9611991408	PTFE (G)	101.6 mm		121.20	5.10	97.60	

Item no.	Material	Size	Dimension (mm)				C	D
			mm	OD/ID x t	A	B		
Blank								
9611300254	1.4404 (316L)	38.0 mm		54.00	3.00			
9611300255	1.4404 (316L)	51.0 mm		68.00	3.00			
9611300256	1.4404 (316L)	63.5 mm		84.00	4.00			
9611300257	1.4404 (316L)	76.1 mm		96.00	4.00			
9611300259	1.4404 (316L)	101.6 mm		124.00	4.00			
9611300253	1.4404 (316L)	DN25		40.00	3.00			
End cap, Thread								
9611303520	1.4301 (304)	25.0 mm		57.00	20.00			
9611303530	1.4301 (304)	38.0 mm		71.00	20.00			
9611303540	1.4301 (304)	51.0 mm		86.00	22.00			
9611303550	1.4301 (304)	63.5 mm		103.00	24.00			
9611303560	1.4301 (304)	76.1 mm		115.00	25.00			

Item no.	Material	Size mm	Dimension (mm)					
			OD/ID x t	A	B	C		D
							Liner, Expanding	
9611300209	1.4301 (304)	25.0 mm		40.00	16.00		25.00	
9611300210	1.4301 (304)	38.0 mm		54.00	18.00		38.00	
9611300211	1.4301 (304)	51.0 mm		68.00	20.00		51.00	
9611300212	1.4301 (304)	63.5 mm		84.00	22.00		63.50	
9611300213	1.4301 (304)	76.1 mm		96.00	24.00		76.00	
							Liner, Weld ends	
9611330691	1.4404 (316L)	25.0 mm	25.40/22.50 x 1.45	40.00	11.00			
9611330692	1.4404 (316L)	38.0 mm	38.40/35.50 x 1.45	54.00	11.00			
9611330693	1.4404 (316L)	51.0 mm	51.40/48.50 x 1.45	68.00	11.00			
9611330694	1.4404 (316L)	63.5 mm	63.90/60.50 x 1.70	84.00	12.00			
9611330695	1.4404 (316L)	76.1 mm	76.40/72.00 x 2.20	96.00	12.00			
9611330697	1.4404 (316L)	101.6 mm	102.00/97.60 x 2.20	124.00	12.00			

Item no.	Material	Size	Dimension (mm)				
			OD/ID x t	A	B	C	
							Male, Expanding and Thread
9611300204	1.4301 (304)	38.0 mm		22.00	58.00 x 1/6	38.00	
9611300205	1.4301 (304)	51.0 mm		24.00	72.00 x 1/6	51.00	
9611300206	1.4301 (304)	63.5 mm		26.00	88.00 x 1/6	63.50	
9611300207	1.4301 (304)	76.1 mm		28.00	100.00 x 1/6	76.00	
9611300203	1.4301 (304)	DN25		20.00	44.00 x 1/6	25.00	
							Male, Weld and Thread
9611330685	1.4404 (316L)	38.0 mm	38.40/35.50 x 1.45	20.00	58.00 x 1/6		
9611330686	1.4404 (316L)	51.0 mm	51.40/48.50 x 1.45	20.00	72.00 x 1/6		
9611330687	1.4404 (316L)	63.5 mm	63.90/60.50 x 1.70	24.00	88.00 x 1/6		
9611330688	1.4404 (316L)	76.1 mm	76.40/72.00 x 2.20	24.00	100.00 x 1/6		
9611330690	1.4404 (316L)	101.6 mm	102.00/97.60 x 2.20	24.00	130.00 x 1/6		
9611330684	1.4404 (316L)	DN25	25.40/22.50 x 1.45	18.50	44.00 x 1/6		

Item no.	Material	Size mm	Dimension (mm)					
			OD/ID x t	A	B	C		D
Nut								
9611300197	1.4301 (304)	25.0 mm		57.00	20.00	44.00 x 1/6	35.00	
9611300198	1.4301 (304)	38.0 mm		71.00	20.00	58.00 x 1/6	48.50	
9611300199	1.4301 (304)	51.0 mm		86.00	22.00	72.00 x 1/6	62.50	
9611300200	1.4301 (304)	63.5 mm		103.00	24.00	88.00 x 1/6	76.50	
9611300201	1.4301 (304)	76.1 mm		115.00	25.00	100.00 x 1/6	88.50	
9611300263	1.4301 (304)	101.6 mm		150.00	28.00	130.00 x 1/6	117.00	
Seal ring, Seal								
9611992814	EPDM (E)	25.0 mm		37.00	4.50		25.00	
9611992816	EPDM (E)	38.0 mm		47.00	4.50		38.00	
9611992817	EPDM (E)	51.0 mm		59.00	4.50		51.00	
9611992818	EPDM (E)	63.5 mm		74.50	4.50		63.50	
9611992819	EPDM (E)	76.1 mm		88.00	4.50		76.10	
9611992820	EPDM (E)	101.6 mm		112.50	4.50		101.60	
9611992833	FPM	25.0 mm		37.00	4.50		25.00	
9611992835	FPM	38.0 mm		47.00	4.50		38.00	
9611992836	FPM	51.0 mm		59.00	4.50		51.00	
9611992837	FPM	63.5 mm		74.50	4.50		63.50	
9611992838	FPM	76.1 mm		88.00	4.50		76.10	
9611992839	FPM	101.6 mm		112.50	4.50		101.60	
9611990120	NBR	25.0 mm		37.00	4.50		25.00	
9611990121	NBR	38.0 mm		47.00	4.50		38.00	
9611990122	NBR	51.0 mm		59.00	4.50		51.00	
9611990123	NBR	63.5 mm		74.50	4.50		63.50	
9611990124	NBR	76.1 mm		88.00	4.50		76.10	
9611990558	NBR	101.6 mm		112.50	4.50		101.60	
9611991167	PTFE (G)	25.0 mm		37.00	4.50		25.00	
9611991168	PTFE (G)	38.0 mm		47.00	4.50		38.00	
9611991170	PTFE (G)	51.0 mm		59.00	4.50		51.00	
9611991171	PTFE (G)	63.5 mm		74.50	4.50		63.50	
9611991172	PTFE (G)	76.1 mm		88.00	4.50		76.10	
9611991173	PTFE (G)	101.6 mm		112.50	4.50		101.60	

ALSIS Code: 5031, 5042

Finish: Machined
 Seals: Nitrile
 Thread: Round type

Item no.	Material	Size	Dimension (mm)				C	D	
			mm	OD/ID x t	A	B			
Union, Weld ends									
9611330264	1.4404 (316L)	25.0 mm	25.40/22.50 x 1.45	57.00	30.00				
9611330265	1.4404 (316L)	38.0 mm	38.40/35.50 x 1.45	71.00	31.50				
9611330266	1.4404 (316L)	51.0 mm	51.04/48.50 x 1.45	86.00	31.50				
9611330267	1.4404 (316L)	63.5 mm	63.90/60.50 x 1.70	103.00	36.50				
9611330268	1.4404 (316L)	76.1 mm	76.40/72.00 x 2.20	115.00	36.50				
9611330269	1.4404 (316L)	101.6 mm	102.00/97.60 x 2.20	150.00	36.50				

Item no.	Material	Size	Dimension (mm)				
			mm	A	B	C	
Liner							
190627	1.4301 (304)	25.0 mm	35.50	17.00		25.20	
190628	1.4301 (304)	32.0 mm	43.50	17.00		32.20	
190629	1.4301 (304)	38.0 mm	55.00	20.00		38.20	
190630	1.4301 (304)	51.0 mm	65.00	20.00		51.20	
190631	1.4301 (304)	63.5 mm	80.00	25.00		63.80	
190632	1.4301 (304)	76.1 mm	93.00	30.00		76.30	
Male							
190641	1.4301 (304)	25.0 mm		20.00	40.00 x 1/6	25.20	
190642	1.4301 (304)	32.0 mm		20.00	48.00 x 1/6	32.20	
190643	1.4301 (304)	38.0 mm		23.00	60.00 x 1/6	38.20	
190644	1.4301 (304)	51.0 mm		25.00	70.00 x 1/6	51.20	
190645	1.4301 (304)	63.5 mm		30.00	85.00 x 1/6	63.80	
190646	1.4301 (304)	76.1 mm		35.00	98.00 x 1/6	76.30	

ALSIS Code: 5043

Finish: SB (ID=0.8/OD=1.0)
 Seals: Nitrile
 Thread: RdG acc. To DIN 405
 Design: EXP

Item no.	Material	Size	Dimension (mm)				Union
			mm	A	B	C	
190655	1.4301/NBR	25.0 mm	51.00	38.00		25.20	
190657	1.4301/NBR	38.0 mm	74.00	44.00		38.20	
190658	1.4301/NBR	51.0 mm	84.00	46.00		51.20	
190659	1.4301/NBR	63.5 mm	100.0	56.00		63.80	
190660	1.4301/NBR	76.1 mm	114.00	66.00		76.30	

Item no.	Material	Size	Pressure class	Dimension (mm)				
				mm	PN (bar)	OD/ID x t		A
Flange, Complete								
9612498711	1.4404/EPDM	38.0 mm	16	38.00/35.60 x 1.20	79.00	50.00	4.00 x M8	
9612498712	1.4404/EPDM	51.0 mm	16	51.00/48.60 x 1.20	99.00	50.00	4.00 x M8	
9612498713	1.4404/EPDM	63.5 mm	16	63.50/60.30 x 1.60	117.00	50.00	4.00 x M8	
9612498714	1.4404/EPDM	76.1 mm	16	76.10/72.90 x 1.60	132.00	50.00	4.00 x M8	
9612498715	1.4404/EPDM	101.6 mm	16	101.60/97.60 x 2.00	160.00	50.00	4.00 x M8	
9612498710	1.4404/EPDM	DN25	16	25.00/22.60 x 1.20	79.00	50.00	4.00 x M8	
Flange, with O-ring groove								
9612493011	1.4404 (316L)	38.0 mm		38.00/35.60 x 1.20	64.00	25.00	10.00	
9612493012	1.4404 (316L)	51.0 mm		51.00/48.60 x 1.20	84.00	25.00	10.00	
9612493013	1.4404 (316L)	63.5 mm		63.50/60.30 x 1.60	102.00	25.00	10.00	
9612493014	1.4404 (316L)	76.1 mm		76.10/72.90 x 1.60	117.00	25.00	10.00	
9612493015	1.4404 (316L)	101.6 mm		101.60/97.60 x 2.00	143.00	25.00	10.00	
9612493010	1.4404 (316L)	DN25		25.00/22.60 x 1.20	64.00	25.00	10.00	
Flange, without O-ring groove								
9612492911	1.4404 (316L)	38.0 mm		38.00/35.60 x 1.20	64.00	25.00	10.00	
9612492912	1.4404 (316L)	51.0 mm		51.00/48.60 x 1.20	84.00	25.00	10.00	
9612492913	1.4404 (316L)	63.5 mm		63.50/60.30 x 1.60	102.00	25.00	10.00	
9612492914	1.4404 (316L)	76.1 mm		76.10/72.90 x 1.60	117.00	25.00	10.00	
9612492915	1.4404 (316L)	101.6 mm		101.60/97.60 x 2.00	143.00	25.00	10.00	
9612492910	1.4404 (316L)	DN25		25.00/22.60 x 1.20	64.00	25.00	10.00	

Item no.	Material	Size mm	Pressure class PN (bar)	Dimension (mm)				
				OD/ID x t	A	B		C
Gasket flange								
9612402631	EPDM (E)	25.0 mm			33.30	4.10	23.90	
9612402632	EPDM (E)	38.0 mm			46.70	4.10	36.90	
9612402633	EPDM (E)	51.0 mm			59.70	4.10	49.90	
9612402634	EPDM (E)	63.5 mm			71.70	4.10	61.90	
9612402635	EPDM (E)	76.1 mm			83.20	4.10	73.40	
9612402636	EPDM (E)	101.6 mm			108.80	4.10	99.00	
9612402651	FPM	25.0 mm			33.30	4.10	23.90	
9612402652	FPM	38.0 mm			46.70	4.10	36.90	
9612402653	FPM	51.0 mm			59.70	4.10	49.90	
9612402654	FPM	63.5 mm			71.70	4.10	61.90	
9612402655	FPM	76.1 mm			83.20	4.10	73.40	
9612402656	FPM	101.6 mm			108.80	4.10	99.00	
9612402641	Silicone (Q)	25.0 mm			33.30	4.10	23.90	
9612402642	Silicone (Q)	38.0 mm			46.70	4.10	36.90	
9612402643	Silicone (Q)	51.0 mm			59.70	4.10	49.90	
9612402644	Silicone (Q)	63.5 mm			71.70	4.10	61.90	
9612402645	Silicone (Q)	76.1 mm			83.20	4.10	73.40	
9612402646	Silicone (Q)	101.6 mm			108.80	4.10	99.00	

Item no.	Material	Size	Dimension (mm)					
			mm	OD/ID x t	A	B		C
Liner								
9613409401	1.4307 (304L)	25.0 mm		22.50	25.00	15.60	35.50	
9613409402	1.4307 (304L)	38.0 mm		35.50	38.00	16.00	55.00	
9613409403	1.4307 (304L)	51.0 mm		48.50	51.00	17.00	65.00	
9613409404	1.4307 (304L)	63.5 mm		6.40	63.50	17.00	80.00	
9613409405	1.4307 (304L)	76.1 mm		72.70	76.10	19.00	93.00	
9613409406	1.4307 (304L)	104.0 mm		99.90	104.00	19.00	118.00	
9613409407	1.4404 (316L)	25.0 mm		22.50	25.00	15.60	35.50	
9613409408	1.4404 (316L)	38.0 mm		35.50	38.00	16.00	55.00	
9613409409	1.4404 (316L)	51.0 mm		48.50	51.00	17.00	65.00	
9613409410	1.4404 (316L)	63.5 mm		60.40	63.50	17.00	80.00	
9613409411	1.4404 (316L)	76.1 mm		72.70	76.10	19.00	93.00	
9613409412	1.4404 (316L)	104.0 mm		99.90	104.00	19.00	118.00	
Male								
9613409501	1.4307 (304L)	25.0 mm	25.00/22.50 x 1.25		19.00	40.00 x 1/6		
9613409502	1.4307 (304L)	38.0 mm	38.00/35.50 x 1.25		23.00	60.00 x 1/6		
9613409503	1.4307 (304L)	51.0 mm	51.00/48.50 x 1.25		23.00	70.00 x 1/6		
9613409504	1.4307 (304L)	63.5 mm	63.50/60.40x1.55		27.00	85.00 x 1/6		
9613409505	1.4307 (304L)	76.1 mm	76.10/72.70 x 1.70		27.00	98.00 x 1/6		
9613409506	1.4307 (304L)	104.0 mm	104.00/99.90 x 2.05		30.00	125.00 x 1/4		
9613409507	1.4404 (316L)	25.0 mm	25.00/22.50 x 1.25		19.00	40.00 x 1/6		
9613409508	1.4404 (316L)	38.0 mm	38.00/35.50 x 1.25		23.00	60.00 x 1/6		
9613409509	1.4404 (316L)	51.0 mm	51.00/48.50 x 1.25		23.00	70.00 x 1/6		
9613409510	1.4404 (316L)	63.5 mm	63.50/60.40 x 1.55		27.00	85.00 x 1/6		
9613409511	1.4404 (316L)	76.1 mm	76.10/72.70 x 1.70		27.00	98.00 x 1/6		
9613409512	1.4404 (316L)	104.0 mm	104.00/99.90 x 2.05		30.00	125.00 x 1/4		
Nut								
9613496401	1.4301 (304)	104.0 mm		138.00	31.00	125.00x1/4	113.00	

Item no.	Material	Size	Dimension (mm)					
			OD/ID x t	A	B	C		D
		mm						
Seal ring								
9611994546	EPDM (E)	104.0 mm		116.00	5.50		104.00	
9611994548	FPM	104.0 mm		116.00	5.50		104.00	
9611994547	NBR	104.0 mm		116.00	5.50		104.00	

ALSIS Code: 5018

Model: Hose Liner Bends
 Standard: ISO 2037
 Finish: SB (ID=0.8/OD=1.0)
 Material: 1.4404 (316L)

Item no.	Size	Dimension (mm)						
	mm	OD1/ID1 x t1	OD2	A	E	L	R	
Bend with hose and liner								
191603	25.0 mm	25.00/22.60 x 1.20	29.00	62.00	10.00	55.00		
191605	38.0 mm	38.00/35.60 x 1.20	42.00	79.00	10.00	70.00		
191606	51.0 mm	51.00/48.60 x 1.20	55.00	91.00	10.00	82.00		
191607	63.5 mm	63.50/60.30 x 1.60	67.00	114.00	10.00	105.00		
Hose Liner, Bend								
191596	25.0 mm	25.00/22.60 x 1.20	29.00		10.00	55.00	25.00	
191598	38.0 mm	38.00/35.60 x 1.20	42.00		10.00	70.00	38.00	
191599	51.0 mm	51.00/48.60 x 1.20	55.00		10.00	82.00	51.00	
191600	63.5 mm	63.5/60.30 x 1.60	67.00		10.00	105.00	63.50	
191601	76.1 mm	76.10/72.10 x 2.00	80.00		10.00	110.00	76.00	

Item no.	Material	Size	Dimension (mm)				
			mm	OD1/ID1 x t1	OD2	E	
							Hose clamp
191577	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20	29.00	10.00	50.00	
191579	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	42.00	10.00	80.00	
191580	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	55.00	10.00	110.00	
191581	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	67.00	10.00	125.00	
191582	1.4404 (316L)	76.1 mm	76.10/72.10 x 2.00	80.00	10.00	150.00	
							Hose liner
191570	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20	29.00	10.00	42.50	
191572	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	42.00	10.00	71.00	
191573	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	55.00	10.00	101.00	
191574	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	67.00	10.00	116.00	
191575	1.4404 (316L)	76.1 mm	76.10/72.10 x 2.00	80.00	10.00	140.00	
3131708021	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	105.60	10.00	163.00	

ALSIS Code: 5043

Model: End cap
 Standard: ISO 2037
 Finish: Machined
 Thread: Round type

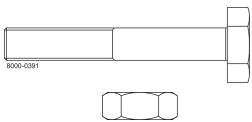
Item no.	Material	Size mm	Dimension (mm)			
			A	B	C	
Nut with chain						
9612145101	1.4307 (304L)	25.0 mm	51.00	20.00	40.00 x 1/6	
9612145102	1.4307 (304L)	38.0 mm	74.00	25.00	60.00 x 1/6	
9612145103	1.4307 (304L)	51.0 mm	84.00	26.00	70.00 x 1/6	
9612145104	1.4307 (304L)	63.5 mm	100.0	31.00	85.00 x 1/6	
9612145105	1.4307 (304L)	76.1 mm	114.00	32.00	98.00 x 1/6	
9612145106	1.4307 (304L)	101.6 mm	154.00	45.00	132.00 x 1/6	
9612145108	1.4404 (316L)	25.0 mm	51.00	20.00	40.00 x 1/6	
9612145109	1.4404 (316L)	38.0 mm	74.00	25.00	60.00 x 1/6	
9612145110	1.4404 (316L)	51.0 mm	84.00	26.00	70.00 x 1/6	
9612145111	1.4404 (316L)	63.5 mm	100.0	31.00	85.00 x 1/6	
9612145112	1.4404 (316L)	76.1 mm	114.00	32.00	98.00 x 1/6	
9612145113	1.4404 (316L)	101.6 mm	154.00	45.00	132.00x1/6	

Item no.	Material	Size mm	Dimension (mm)			
			A	B	C	
End cap						
9612143001	1.4307 (304L)	25.0 mm	51.00	20.00	40.00 x 1/6	
9612143002	1.4307 (304L)	38.0 mm	74.00	25.00	60.00 x 1/6	
9612143003	1.4307 (304L)	51.0 mm	84.00	26.00	70.00 x 1/6	
9612143004	1.4307 (304L)	63.5 mm	100.0	31.00	85.00 x 1/6	
9612143005	1.4307 (304L)	76.1 mm	114.00	32.00	98.00 x 1/6	
9612143006	1.4307 (304L)	101.6 mm	154.00	45.00	132.00 x 1/6	
9612143008	1.4404 (316L)	25.0 mm	51.00	20.00	40.00 x 1/6	
9612143009	1.4404 (316L)	38.0 mm	74.00	25.00	60.00 x 1/6	
9612143010	1.4404 (316L)	51.0 mm	84.00	26.00	70.00 x 1/6	
9612143011	1.4404 (316L)	63.5 mm	100.0	31.00	85.00 x 1/6	
9612143012	1.4404 (316L)	76.1 mm	114.00	32.00	98.00 x 1/6	
9612143013	1.4404 (316L)	101.6 mm	154.00	45.00	132.00 x 1/6	

ALSIS Code: 5043

Standard: ISO 2037
 Finish: SB (ID=0.8/OD=1.0)
 Seals: Nitrile
 Thread: RdG acc. To DIN 405

Item no.	Material	Size	Dimension (mm)				
			mm	A	B	C	
Nut							
190613	1.4301 (304)	25.0 mm	51.00	20.00	40.00 x 1/6	32.00	
190614	1.4301 (304)	32.0 mm	60.00	22.00	48.00 x 1/6	40.00	
190615	1.4301 (304)	38.0 mm	74.00	25.00	60.00 x 1/6	48.00	
190616	1.4301 (304)	51.0 mm	84.00	26.00	70.00 x 1/6	60.50	
190617	1.4301 (304)	63.5 mm	100.0	30.00	85.00 x 1/6	74.00	
190618	1.4301 (304)	76.1 mm	114.00	32.00	98.00 x 1/6	87.00	
3131708841	1.4301 (304)	101.6 mm	154.00	45.00	132.00 x 1/6	117.00	

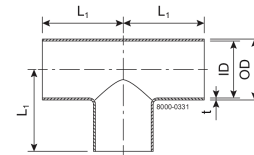
Item no.	Material	Flange size	Second size	Screws	Nuts	
						Bolt and nut set
9612499301	1.4301 (304)	25.0 mm	DN 25-65	4 x M8 x 30	4 x M8	
9612499302	1.4301 (304)	101.6 mm	DN 80-100	8 x M8 x 30	8 x M8	
9612499303	1.4301 (304)	125-150 mm	DN 125-150	8 x M10 x 40	8 x M10	

Item no.	Material	Size mm	Dimension (mm)			L
			OD1/ID1 x t1	OD2/ID2 x t2		
ID:RAW=0.8/OD:POL=1.0						
9612928250	1.4307 (304L)	38.1 mm	38.10/34.90 x 1.60	25.40/22.20x1.60	40.00	
9612928251	1.4307 (304L)	50.8 mm	50.80/47.60 x 1.60	25.40/22.20x1.60	80.00	
9612928252	1.4307 (304L)	50.8 mm	50.80/47.60 x 1.60	38.10/34.90x1.60	41.00	
9612928253	1.4307 (304L)	63.5 mm	63.50/60.30 x 1.60	38.10/34.90x1.60	80.00	
9612928254	1.4307 (304L)	63.5 mm	63.50/60.30 x 1.60	50.80/47.60x1.60	38.00	
9612928255	1.4307 (304L)	76.1 mm	76.10/73.00 x 1.60	50.80/47.60x1.60	76.00	
9612928256	1.4307 (304L)	76.1 mm	76.10/73.00 x 1.60	63.50/60.30x1.60	36.00	
9612928257	1.4307 (304L)	101.6 mm	101.60/97.60 x 2.00	76.20/73.00x1.60	77.00	
9612928258	1.4307 (304L)	101.6 mm	101.60/97.60 x 2.00	63.50/60.30x1.60	108.00	
9612928259	1.4404 (316L)	38.1 mm	38.10/34.90 x 1.60	25.40/22.20x1.60	40.00	
9612928260	1.4404 (316L)	50.8 mm	50.80/47.60 x 1.60	25.40/22.20x1.60	80.00	
9612928261	1.4404 (316L)	50.8 mm	50.80/47.60 x 1.60	38.10/34.90x1.60	41.00	
9612928262	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	38.10/34.90x1.60	80.00	
9612928263	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	50.80/47.60x1.60	38.00	
9612928264	1.4404 (316L)	76.1 mm	76.10/73.00 x 1.60	50.80/47.60x1.60	76.00	
9612928265	1.4404 (316L)	76.1 mm	76.10/73.00 x 1.60	63.50/60.30x1.60	36.00	
9612928266	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	76.20/73.00x1.60	77.00	
9612928267	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	63.50/60.30x1.60	108.00	
SB (ID=0.8/OD=1.0)						
3131708951	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	25.00/22.60x1.20	44.00	
3131708952	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	25.00/22.60x1.20	86.00	
3131708953	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	38.00/35.60x1.20	42.00	
3131708954	1.4404 (316L)	63.5 mm	63.50/61.10 x 1.20	38.00/35.60x1.20	82.00	
3131708955	1.4404 (316L)	63.5 mm	63.50/61.10 x 1.20	51.00/48.60x1.20	40.00	
3131708956	1.4404 (316L)	76.1 mm	76.10/72.90 x 1.60	51.00/47.80x1.60	79.00	
3131708957	1.4404 (316L)	76.1 mm	76.10/72.90 x 1.60	63.50/60.30x1.60	39.00	
3131708958	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	76.10/72.10x2.00	81.00	
Straight ends, ID:RAW=0.8/OD:POL=1.0						
9612928274	1.4404 (316L)	38.1 mm	38.10/34.90 x 1.60	25.40/22.20x1.60	97.00	
9612928275	1.4404 (316L)	50.8 mm	50.80/47.60 x 1.60	38.10/34.90x1.60	97.00	
9612928276	1.4404 (316L)	50.8 mm	50.80/47.60 x 1.60	25.40/22.20x1.60	115.00	
9612928277	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	50.80/47.60x1.60	97.00	
9612928278	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	38.10/34.90x1.60	120.00	
9612928279	1.4404 (316L)	76.1 mm	76.10/73.00 x 1.60	63.50/60.30x1.60	97.00	
9612928280	1.4404 (316L)	76.1 mm	76.10/73.00 x 1.60	50.80/47.60x1.60	115.00	
9612928281	1.4404 (316L)	76.1 mm	76.10/73.00 x 2.00	38.10/34.90x1.60	130.00	
9612928282	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	76.20/73.00x1.6	120.00	
9612928284	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	50.80/47.60x1.60	150.00	
9612928283	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	63.50/60.30x1.60	140.00	

Item no.	Material	Size	Dimension (mm)				
			mm	OD1/ID1 x t1	OD2/ID2 x t2		L
ID:RAW=0.8/OD:POL=1.0							
9612928285	1.4404 (316L)	38.1 mm	38.10/34.90 x 1.60	25.4/22.20x1.60	100.00		
9612928286	1.4404 (316L)	50.8 mm	50.80/47.60 x 1.60	38.10/34.90x1.60	100.00		
9612928287	1.4404 (316L)	50.8 mm	50.80/47.60 x 1.60	25.40/22.20x1.60	120.00		
9612928288	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	50.80/47.60x1.60	105.00		
9612928289	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	38.10/34.90x1.60	140.00		
9612928290	1.4404 (316L)	76.1 mm	76.10/73.00 x 1.60	63.50/60.30x1.60	105.00		
9612928291	1.4404 (316L)	76.1 mm	76.10/73.00 x 1.60	50.80/47.60x1.60	135.00		
9612928292	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	76.20/73.00x1.60	135.00		
9612928293	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	63.50/60.30x1.60	170.00		
9612929372	1.4404 (316L)	104.0 mm	104.00/100.00 x 2.00	76.20/73.00x1.60	135.00		
9612929373	1.4404 (316L)	104.0 mm	104.00/100.00 x 2.00	63.50/60.30x1.60	170.00		
SB (ID=0.8/OD=1.0)							
3131708961	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	25.00/22.60x1.20	44.00		
3131708962	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	25.00/22.60x1.20	86.00		
3131708963	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	38.00/35.60x1.20	42.00		
3131708964	1.4404 (316L)	63.5 mm	63.50/61.10 x 1.20	38.00/35.60x1.20	82.00		
3131708965	1.4404 (316L)	63.5 mm	63.50/61.10 x 1.20	51.00/48.60x1.20	40.00		
3131708966	1.4404 (316L)	76.1 mm	76.10/72.90 x 1.60	51.00/47.80x1.60	79.00		
3131708967	1.4404 (316L)	76.1 mm	76.10/72.90 x 1.60	63.50/60.30x1.60	39.00		
3131708968	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	76.10/72.10x2.00	81.00		

Item no.	Material	Size	Dimension (mm)			
			mm	A	B	
Seal ring						
3131703753	EPDM (E)	25.0 mm	32.00	5.50	24.80	
3131703762	EPDM (E)	32.0 mm	40.00	5.00	29.50	
3131703772	EPDM (E)	38.0 mm	48.00	5.50	37.80	
3131703785	EPDM (E)	51.0 mm	61.00	5.50	50.80	
3131703793	EPDM (E)	63.5 mm	73.50	5.50	63.20	
3131703803	EPDM (E)	76.1 mm	86.00	5.50	75.50	
3131708862	EPDM (E)	101.6 mm	114.00	5.50	101.00	
3131703752	FPM	25.0 mm	32.00	5.50	24.80	
9611991306	FPM	32.0 mm	40.00	5.00	29.50	
191661	FPM	38.0 mm	48.00	5.50	37.80	
3131703782	FPM	51.0 mm	61.00	5.50	50.80	
3131703792	FPM	63.5 mm	73.50	5.50	63.20	
3131703801	FPM	76.1 mm	86.00	5.50	75.50	
3131708863	FPM	101.6 mm	114.00	5.50	101.00	
190601	NBR	25.0 mm	32.00	5.50	24.80	
190602	NBR	32.0 mm	40.00	5.00	29.50	
190603	NBR	38.0 mm	48.00	5.50	37.80	
190604	NBR	51.0 mm	61.00	5.50	50.80	
190605	NBR	63.5 mm	73.50	5.50	63.20	
190606	NBR	76.1 mm	86.00	5.50	75.50	
3131708861	NBR	101.6 mm	114.00	5.50	101.00	
3131705511	PTFE (G)	25.0 mm	32.00	4.00	25.00	
190987	PTFE (G)	25.0 mm	32.00	4.00	22.50	
3131705512	PTFE (G)	32.0 mm	40.00	5.00	29.50	
3131705513	PTFE (G)	38.0 mm	48.00	4.00	38.00	
190989	PTFE (G)	38.0 mm	32.00	5.00	22.50	
3131705514	PTFE (G)	51.0 mm	61.00	4.00	51.00	
190990	PTFE (G)	51.0 mm	61.00	5.00	60.50	
190991	PTFE (G)	63.5 mm	73.50	5.00	60.50	
3131705515	PTFE (G)	63.5 mm	73.50	4.00	63.50	
3131705516	PTFE (G)	76.1 mm	86.00	4.00	76.10	
190992	PTFE (G)	76.1 mm	86.00	5.00	72.00	
3131705517	PTFE (G)	101.6 mm	114.00	4.00	101.60	
3131705171	PTFE (G)	101.6 mm	114.00	4.00	97.60	

Item no.	Material	Size	Dimension (mm)		
			mm	OD/ID x t	
Tee					
190725	1.4307 (304L)	25.0 mm	25.00/22.60 x 1.20		55.00
190727	1.4307 (304L)	38.0 mm	38.00/35.60 x 1.20		70.00
190728	1.4307 (304L)	51.0 mm	51.00/48.60 x 1.20		82.00
190729	1.4307 (304L)	63.5 mm	63.50/60.30 x 1.60		105.00
190730	1.4307 (304L)	76.1 mm	76.10/72.10 x 2.00		110.00
3131708511	1.4307 (304L)	101.6 mm	101.60/97.60 x 2.00		150.00
191652	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20		55.00
191654	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20		70.00
191655	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20		82.00
191656	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60		105.00
191657	1.4404 (316L)	76.1 mm	76.10/72.10 x 2.00		110.00
3131708512	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00		150.00



Item no.	Material	Size	Dimension (mm)				Tee
			mm	OD1/ID1 x t1	OD2/ID2 x t2	L1	
3131708061	1.4404 (316L)	51.0 mm	51.00/48.60x1.20	38.00/35.60x1.20	82.00	70.00	
3131708071	1.4404 (316L)	63.5 mm	63.50/60.30x1.60	38.00/35.60x1.20	105.00	70.00	
3131708081	1.4404 (316L)	63.5 mm	63.50/60.30x1.60	51.00/48.60x1.20	105.00	82.00	
3131708091	1.4404 (316L)	76.1 mm	76.10/72.10x2.00	38.10/34.90x1.60	110.00	80.00	
3131708101	1.4404 (316L)	76.1 mm	76.10/72.10x2.00	50.80/47.60x1.60	110.00	82.00	

Item no.	Material	Size (mm)		Dimension (mm)				Tee
				OD1/ID1 x t1	OD2/ID2 x t2	L1	L2	
3180190391	1.4404 (316L)	38.0 mm	25.0 mm	38.00/35.60x1.20	25.00/22.60x1.20	70.00	40.70	
3180190392	1.4404 (316L)	51.0 mm	25.0 mm	51.00/48.60x1.20	25.00/22.60x1.20	82.00	54.10	
3180190393	1.4404 (316L)	51.0 mm	38.0 mm	51.00/48.60x1.20	38.00/35.60x1.20	82.00	54.10	
3180190394	1.4404 (316L)	63.5 mm	25.0 mm	63.50/60.30x1.60	25.00/22.60x1.20	105.00	66.50	
3180190395	1.4404 (316L)	63.5 mm	38.0 mm	63.50/60.30x1.60	38.00/35.60x1.20	105.00	67.60	
3180190396	1.4404 (316L)	63.5 mm	51.0 mm	63.50/60.30x1.61	51.00/48.60x1.20	105.00	66.50	
3180190397	1.4404 (316L)	76.1 mm	25.0 mm	76.10/72.10x2.00	25.00/21.80x1.60	110.00	79.30	
3180190398	1.4404 (316L)	76.1 mm	38.0 mm	76.10/72.10x2.01	38.00/34.80x1.60	110.00	80.60	
3180190399	1.4404 (316L)	76.1 mm	51.0 mm	76.10/72.10x2.02	51.00/47.80x1.60	110.00	80.60	
3180190401	1.4404 (316L)	76.1 mm	63.5 mm	76.10/72.10x2.03	63.50/60.30x1.60	110.00	80.00	
3180190402	1.4404 (316L)	101.6 mm	25.0 mm	101.60/97.60x2.00	25.00/21.80x1.60	150.00	105.00	
3180190403	1.4404 (316L)	101.6 mm	38.0 mm	101.60/97.60x2.01	38.00/34.80x1.60	150.00	106.60	
3180190404	1.4404 (316L)	101.6 mm	51.0 mm	101.60/97.60x2.02	51.00/47.80x1.60	150.00	106.60	
3180190405	1.4404 (316L)	101.6 mm	63.5 mm	101.60/97.60x2.03	63.50/60.30x1.60	150.00	106.60	
3180190406	1.4404 (316L)	101.6 mm	76.1 mm	101.60/97.60x2.04	76.10/72.90x1.60	150.00	106.60	

Item no.	Material	Size	Dimension (mm)			Tee
			mm	OD/ID x t	L1	
9611302052	1.4307 (304L)	25.0 mm	25.00/22.60 x 1.20	55.00	27.00	
9611302053	1.4307 (304L)	38.0 mm	38.00/35.60 x 1.20	70.00	40.50	
9611302054	1.4307 (304L)	51.0 mm	51.00/48.60 x 1.20	82.00	54.50	
9611302055	1.4307 (304L)	63.5 mm	63.50/60.30 x 1.60	105.00	67.00	
9611302056	1.4307 (304L)	76.1 mm	76.10/72.10 x 2.00	110.00	81.00	
9611302057	1.4307 (304L)	101.6 mm	101.60/97.60 x 2.00	150.00	107.00	
9611302155	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20	55.00	27.00	
9611302156	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	70.00	40.50	
9611302157	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	82.00	54.50	
9611302158	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	105.00	67.00	
9611302159	1.4404 (316L)	76.1 mm	76.10/72.10 x 2.00	110.00	81.00	
9611302160	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	150.00	107.00	

ALSIS Code: 5043

Model: Liner
 Standard: ISO 2037
 Seals: Nitrile
 Thread: RdG acc. To DIN 405
 Connection Type: Expanding

Item no.	Material	Size	Dimension (mm)			
			mm	A	B	
Expanding reducing						
191669	1.4404 (316L)	38.0 mm	55.00	17.00	25.20	
191670	1.4404 (316L)	51.0 mm	65.00	17.00	25.20	
191675	1.4404 (316L)	51.0 mm	65.00	20.00	38.20	
191676	1.4404 (316L)	63.5 mm	80.00	20.00	38.20	
191678	1.4404 (316L)	63.5 mm	80.00	20.00	51.20	
191677	1.4404 (316L)	76.1 mm	93.00	20.00	38.20	
191679	1.4404 (316L)	76.1 mm	93.00	20.00	51.20	
191680	1.4404 (316L)	76.1 mm	93.00	25.00	63.80	

ALSIS Code: 5043

Design: Reducing
 Standard: SMS
 Finish: SB (ID=0.8/OD=1.0)
 Seals: Nitrile
 Thread: RdG acc. To DIN 405
 Connection Type: Weld and Thread

Item no.	Material	Size	Dimension (mm)			
			mm	OD/ID x t	A	
Liner						
3131707652	1.4404 (316L)	38.0 mm	25.00/22.60 x 1.20	55.00	9.00	
3131706611	1.4404 (316L)	51.0 mm	38.00/35.60 x 1.20	65.00	9.00	
3131707642	1.4404 (316L)	51.0 mm	25.00/22.60 x 1.20	65.00	9.00	
3131706631	1.4404 (316L)	63.5 mm	51.00/48.60 x 1.20	80.00	9.00	
3131707941	1.4404 (316L)	63.5 mm	38.00/35.60 x 1.20	80.00	9.00	
3131707931	1.4404 (316L)	76.1 mm	51.00/48.60 x 1.20	93.00	10.00	
3131708881	1.4404 (316L)	76.1 mm	63.50/60.30 x 1.60	93.00	10.00	
3131708891	1.4404 (316L)	101.6 mm	63.50/60.30 x 1.60	127.00	15.00	
3131708901	1.4404 (316L)	101.6 mm	76.10/72.90 x 1.60	127.00	15.00	
Male						
3131707372	1.4404 (316L)	38.0 mm	25.00/22.60 x 1.20	35.60	20.00	
3131706571	1.4404 (316L)	51.0 mm	38.00/35.60 x 1.20	48.60	20.00	
3131708911	1.4404 (316L)	51.0 mm	25.00/22.60 x 1.20	48.60	20.00	
3131706591	1.4404 (316L)	63.5 mm	51.00/48.60 x 1.20	60.30	24.00	
3131708921	1.4404 (316L)	63.5 mm	38.00/35.60 x 1.20	60.30	24.00	
3131705121	1.4404 (316L)	76.1 mm	63.50/60.30 x 1.60	72.90	24.00	
3131708221	1.4404 (316L)	76.1 mm	51.00/48.60 x 1.20	72.90	24.00	

ALSIS Code: 5031, 5041

Standard: IDF
 Finish: Machined
 Seals: Nitrile
 Thread: Trapezoidal type

Item no.	Material	Size	Dimension (mm)					
			mm	OD/ID x t	A	B		C
Blank								
9611308290	1.4404 (316L)	25.0 mm		33.80	10.50		29.00	
9611308291	1.4404 (316L)	38.0 mm		47.00	10.50		42.50	
9611308292	1.4404 (316L)	51.0 mm		60.50	10.50		56.00	
9611308293	1.4404 (316L)	63.5 mm		74.00	10.50		69.70	
9611308294	1.4404 (316L)	76.1 mm		87.50	10.50		82.30	
9611308295	1.4404 (316L)	101.6 mm		114.10	10.50		108.40	
Liner								
3131900681	1.4404 (316L)	25.0 mm	25.60/22.50x1.55	33.80	12.00			
3131900691	1.4404 (316L)	38.0 mm	38.60/35.50 x 1.55	47.00	12.00			
3131900273	1.4404 (316L)	51.0 mm	51.60/48.50 x 1.55	60.50	12.00			
3131900711	1.4404 (316L)	63.5 mm	64.10/60.50 x 1.80	74.00	12.00			
3131900721	1.4404 (316L)	76.1 mm	76.60/72.00x2.30	87.50	12.00			
9611300898	1.4404 (316L)	101.6 mm	102.50/97.60x2.45	114.10	21.50			
Male								
3131900621	1.4404 (316L)	25.0 mm	25.60/22.50 x 1.55		21.50	37.10 x 1/8		
3131900631	1.4404 (316L)	38.0 mm	38.60/35.50x1.55		21.50	50.60 x 1/8		
3131900153	1.4404 (316L)	51.0 mm	51.60/48.50x1.55		21.50	64.10 x 1/8		
3131900163	1.4404 (316L)	63.5 mm	64.10/60.50x1.80		21.50	77.60 x 1/8		
3131900173	1.4404 (316L)	76.1 mm	76.60/72.00x2.30		21.50	91.10 x 1/8		
9611300899	1.4404 (316L)	101.6 mm	102.50/97.60x2.45		21.50	118.40 x 1/8		

Item no.	Material	Size mm	Dimension (mm)				D	
			OD/ID x t	A	B	C		
Nut								
3131900011	1.4301 (304)	25.0 mm		48.00	30.00	38.30 x 1/8	30.50	
3131900021	1.4301 (304)	38.0 mm		64.00	30.00	51.80 x 1/8	43.50	
3131900031	1.4301 (304)	51.0 mm		77.00	30.00	65.30 x 1/8	57.00	
3131900041	1.4301 (304)	63.5 mm		91.00	30.00	78.80 x 1/8	70.70	
3131900051	1.4301 (304)	76.1 mm		106.00	30.00	92.30 x 1/8	83.30	
3131900061	1.4301 (304)	89.0 mm		122.00	30.00	105.80 x 1/8	97.00	
9611300149	1.4301 (304)	101.6 mm		135.00	30.00	119.40 x 1/8	110.00	
Seal ring, B=6.0								
9611991424	PTFE (G)	25.0 mm		32.50	6.00		22.80	
9611991426	PTFE (G)	38.0 mm		46.00	6.00		35.90	
9611991427	PTFE (G)	51.0 mm		59.90	6.00		48.90	
9611991428	PTFE (G)	63.5 mm		73.00	6.00		60.90	
9611991429	PTFE (G)	76.1 mm		86.50	6.00		73.30	
9611991431	PTFE (G)	101.6 mm		113.00	6.00		98.00	

Item no.	Material	Size mm	Dimension (mm)					
			OD/ID x t	A	B	C		D
Seal ring, B=6.0 to 6.2								
9611991390	EPDM (E)	25.0 mm		32.50	6.00		23.60	
9611991392	EPDM (E)	38.0 mm		46.00	6.00		36.60	
9611991393	EPDM (E)	51.0 mm		59.50	6.00		49.60	
9611991394	EPDM (E)	63.5 mm		73.20	6.00		61.30	
9611991395	EPDM (E)	76.1 mm		86.50	6.00		73.90	
9611991397	EPDM (E)	101.6 mm		112.50	6.00		98.60	
9611990953	NBR	25.0 mm		32.50	6.00		23.60	
9611990954	NBR	38.0 mm		46.00	6.00		36.60	
9611990955	NBR	51.0 mm		59.50	6.00		49.60	
9611990956	NBR	63.5 mm		73.20	6.00		61.30	
9611990959	NBR	101.6 mm		112.50	6.00		98.60	
9611993254	PTFE (G)	101.6 mm		119.70	6.20		97.70	
Seal ring, B=7.0 to 9.5								
3131900314	EPDM (E)	25.0 mm		32.50	7.00		25.50	
3131900324	EPDM (E)	38.0 mm		46.00	7.00		38.00	
3131900334	EPDM (E)	51.0 mm		59.50	7.00		51.00	
3131900344	EPDM (E)	63.5 mm		73.00	7.00		63.00	
3131900354	EPDM (E)	76.1 mm		86.50	7.00		75.50	
9611993692	EPDM (E)	101.6 mm		110.00	9.50		119.00	
3131900313	FPM	25.0 mm		32.50	7.00		25.50	
3131900323	FPM	38.0 mm		46.00	7.00		38.00	
3131900333	FPM	51.0 mm		59.50	7.00		51.00	
3131900343	FPM	63.5 mm		73.00	7.00		63.00	
3131900353	FPM	76.1 mm		86.50	7.00		75.50	
3131900311	NBR	25.0 mm		32.50	7.00		25.50	
3131900321	NBR	38.0 mm		46.00	7.00		38.00	
3131900331	NBR	51.0 mm		59.50	7.00		51.00	
3131900341	NBR	63.5 mm		73.00	7.00		63.00	
3131900351	NBR	76.1 mm		86.50	7.00		75.50	
9611991477	NBR	101.6 mm		110.00	9.50		119.00	
Union								
9611330955	1.4404 (316L)	25.0 mm	25.60/22.50 x 1.55	48.00	35.50			
9611330956	1.4404 (316L)	38.0 mm	38.60/35.50 x 1.55	64.00	35.50			
9611330957	1.4404 (316L)	51.0 mm	51.60/48.50 x 1.55	77.00	35.50			
9611330958	1.4404 (316L)	63.5 mm	64.10/60.50 x 1.80	91.00	35.50			
9611330959	1.4404 (316L)	76.1 mm	76.60/72.00 x 2.30	106.00	35.50			
9611330960	1.4404 (316L)	101.6 mm	102.50/97.60 x 2.45	135.00	45.00			

Item no.	Material	Size mm	Dimension (mm)		
			A	B	
Seal ring					
9611992821	EPDM (E)	25.0 mm	33.30	6.60	
9611992822	EPDM (E)	38.0 mm	46.00	6.60	
9611992823	EPDM (E)	51.0 mm	58.70	6.60	
9611992824	EPDM (E)	63.5 mm	71.40	6.60	
9611992825	EPDM (E)	76.1 mm	84.10	6.60	
9611992826	EPDM (E)	101.6 mm	109.50	6.60	
9611992827	FPM	25.0 mm	33.30	6.60	
9611992828	FPM	38.0 mm	46.00	6.60	
9611992829	FPM	51.0 mm	58.70	6.60	
9611992830	FPM	63.5 mm	71.40	6.60	
9611992831	FPM	76.1 mm	84.10	6.60	
9611992832	FPM	101.6 mm	109.50	6.60	
9611990145	NBR	25.0 mm	33.30	6.60	
9611990146	NBR	38.0 mm	46.00	6.60	
9611990147	NBR	51.0 mm	58.70	6.60	
9611990148	NBR	63.5 mm	71.40	6.60	
9611990149	NBR	76.1 mm	84.10	6.60	
9611990550	NBR	101.6 mm	109.50	6.60	

ALSIS Code: 5043

Standard: SMS
 Finish: SB (ID=0.8/OD=1.0)
 Seals: Nitrile
 Thread: RdG acc. To DIN 405

Item no.	Material	Size	Dimension (mm)				
			mm	OD/ID x t	A		B
Liner							
190704	1.4307 (304L)	25.0 mm	25.00/22.60 x 1.20	35.50	7.50		
190705	1.4307 (304L)	32.0 mm	33.70/31.30 x 1.20	43.50	7.50		
190706	1.4307 (304L)	38.0 mm	38.00/35.60 x 1.20	55.00	9.00		
190707	1.4307 (304L)	51.0 mm	51.00/48.60 x 1.20	65.00	9.00		
190708	1.4307 (304L)	63.5 mm	63.50/60.30 x 1.60	80.00	9.00		
190709	1.4307 (304L)	76.1 mm	76.10/72.90 x 1.60	93.00	10.00		
3131708851	1.4307 (304L)	101.6 mm	101.60/97.60 x 2.00	127.00	12.00		
190994	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20	35.50	7.50		
190995	1.4404 (316L)	32.0 mm	33.70/31.30 x 1.20	43.50	7.50		
190996	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	55.00	9.00		
190997	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	65.00	9.00		
190998	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	80.00	9.00		
190999	1.4404 (316L)	76.1 mm	76.10/72.90 x 1.60	93.00	10.00		
3131708852	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	127.00	12.00		
Liner, Long							
9611309611	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20	35.50	17.00		
9611309613	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	55.00	20.00		
9611309614	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	65.00	20.00		
9611309615	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	80.00	25.00		
9611309616	1.4404 (316L)	76.1 mm	76.10/72.90 x 1.60	93.00	30.00		
9611309617	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	127.00	35.00		
Male							
190711	1.4307 (304L)	25.0 mm	25.00/22.60 x 1.20	40.00 x 1/6	15.00		
190712	1.4307 (304L)	32.0 mm	33.70/31.30 x 1.20	48.00 x 1/6	17.00		
190713	1.4307 (304L)	38.0 mm	38.00/35.60 x 1.20	60.00 x 1/6	20.00		
190714	1.4307 (304L)	51.0 mm	51.00/48.60 x 1.20	70.0 x 1/6	20.00		
190715	1.4307 (304L)	63.5 mm	63.50/60.30 x 1.60	85.00 x 1/6	24.00		
190716	1.4307 (304L)	76.1 mm	76.10/72.90 x 1.60	98.00 x 1/6	24.00		
3131708171	1.4307 (304L)	101.6 mm	101.60/97.60 x 2.00	132.00 x 1/6	35.00		
191001	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20	40.00 x 1/6	15.00		
191002	1.4404 (316L)	32.0 mm	33.70/31.30 x 1.20	48.00 x 1/6	17.00		
191003	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	60.00 x 1/6	20.00		
191004	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	70.0 x 1/6	20.00		
191005	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	85.00 x 1/6	24.00		
191006	1.4404 (316L)	76.1 mm	76.10/72.90 x 1.60	98.00 x 1/6	24.00		
3131708173	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	132.00 x 1/6	35.00		

ALSIS Code: 5043

Standard: SMS
 Finish: SB (ID=0.8/OD=1.0)
 Seals: Nitrile
 Thread: RdG acc. To DIN 405

Item no.	Material	Size	Dimension (mm)			Union
			mm	OD/ID x t	A	
9611300389	1.4307 (304L)	32.0 mm	33.70/31.30 x 1.20	60.00	25.50	<p>The technical drawing shows a cross-section of a threaded union fitting. Dimension A is the total height of the fitting. Dimension B is the diameter of the main body. Dimension t is the thickness of the flange. ID and OD are the inner and outer diameters of the flange, respectively.</p>
9611300382	1.4307/NBR	25.0 mm	25.00/22.60 x 1.20	51.00	23.50	
9611300383	1.4307/NBR	38.0 mm	38.00/35.60 x 1.20	74.00	30.00	
9611300384	1.4307/NBR	51.0 mm	51.00/48.60 x 1.20	84.00	30.00	
9611300385	1.4307/NBR	63.5 mm	63.50/60.30 x 1.60	100.0	33.00	
9611300386	1.4307/NBR	76.1 mm	76.10/72.90 x 1.60	114.00	35.00	
9611300387	1.4307/NBR	101.6 mm	101.60/97.60 x 2.00	154.00	48.00	
9611330389	1.4404 (316L)	32.0 mm	33.70/31.30 x 1.20	60.00	25.50	
9611330382	1.4404/NBR	25.0 mm	25.00/22.60 x 1.20	51.00	23.50	
9611330383	1.4404/NBR	38.0 mm	38.00/35.60 x 1.20	74.00	30.00	
9611330384	1.4404/NBR	51.0 mm	51.00/48.60 x 1.20	84.00	30.00	
9611330385	1.4404/NBR	63.5 mm	63.50/60.30 x 1.60	100.0	33.00	
9611330386	1.4404/NBR	76.1 mm	76.10/72.90 x 1.60	114.00	35.00	
9611330387	1.4404/NBR	101.6 mm	101.60/97.60 x 2.00	154.00	48.00	

Tri-Clover 3A Adapters

Hygienic fittings

ALSIS Code: 5046

Model: Adapter
 Standard: Hygienic
 Finish: #7 (ID=32/OD=32µin)

Item no.	Material	Size		Dimension (Inch)			
		Inch	Inch	A	B	C	
14MPHT							
211526	316L	1"		4.50	0.88	25.40	
211527	316L	1.5"		4.50	1.38	38.10	
211793	316L	2"		4.50	1.88	50.80	
212039	316L	2.5"		4.50	2.38	63.50	
213493	316L	4"		4.63	3.83	101.60	
21MP							
211299	304	1"	1"	0.69	2.25		
211371	304	1"	0.75"	0.98	2.19		
211363	304	1.5"	1.25"	0.70	2.44		
211301	304	2"	2"	0.75	2.66		
211369	304	2"	2"	1.14	3.13		
213598	316L	1"	1"	0.69	2.25		
213650	316L	1"	0.75"	0.98	2.19		
213740	316L	1"	1"	0.72	2.31		
212034	316L	1.5"	0.75"	0.55	2.19		
213741	316L	1.5"	1.25"	0.70	2.44		
22MP							
211331	304	1"	1"	1.63			
211378	304	1"	0.75"	1.63			
211336	304	1"	1"	1.63			
211335	304	1.5"	1.5"	2.25			
211362	304	1.5"	1.5"	2.34			
211334	304	1.5"	1.25"	2.25			
211434	304	1.5"	0.75"	1.63			
211337	304	2"	2"	1.69			
211539	304	2"	2"	1.41			
211332	304	2.5"	2.5"	2.09			
211340	304	3"	3"	2.19			
211339	304	4"	4"	2.66			
211736	316L	1"	1"	1.63			
213625	316L	1"	1"	1.63			
210984	316L	1"	0.75"	1.63			
213733	316L	1.5"	1.5"	2.25			
213821	316L	1.5"	0.75"	1.63			
213913	316L	1.5"	1.25"	2.25			
213914	316L	1.5"	1.5"	1.69			
211156	316L	1.5"	2"	2.25			
213623	316L	2"	2"	1.69			
210249	316L	2"	2"	1.41			
210318	316L	2.5"	2.5"	2.09			
213649	316L	3"	3"	2.19			
210737	316L	4"	4"	2.66			

Item no.	Material	Size		Dimension		
		Inch	mm	A (Inch)	A (mm)	
2WK						
060728	316L	1"	25.40	0.63	15.90	
060730	316L	2"	38.10	1.25	31.80	
060731	316L	2.5"	50.80	1.56	39.70	
060283	316L	3"	76.20	1.88	47.60	
060732	316L	4"	63.50	2.50	63.50	
9634050000	316L	6"	152.41	3.75	95.30	
B2KMP						
9634003115	304	1"	25.40	1.13	28.60	
9634003116	304	1.5"	38.10	1.44	36.50	
9634003117	304	2"	50.80	1.75	44.50	
9634003118	304	2.5"	63.50	2.06	52.40	
9634003119	304	3"	76.20	2.38	60.30	
9634003120	304	4"	101.60	3.13	79.40	
9634003136	316L	1"	25.40	1.13	28.60	
9634003137	316L	1.5"	38.10	1.44	36.50	
9634003138	316L	2"	50.80	1.75	44.50	
9634003139	316L	2.5"	63.50	2.06	52.40	
9634003140	316L	3"	76.20	2.38	60.30	
9634003141	316L	4"	101.60	3.13	79.40	
9634003142	316L	6"	152.40	5.25	133.40	
B2KS						
9634000508	304	1"	25.40	2.25	57.20	
9634000509	304	1.5"	38.10	2.50	63.50	
9634000510	304	2"	50.80	3.00	76.20	
9634000511	304	2.5"	63.50	3.38	85.70	
9634000512	304	3"	76.20	3.63	92.10	
9634000513	304	4"	101.60	4.50	114.30	
9636000258	304	6"	152.40	6.25	158.80	
9634000522	316L	1"	25.40	2.25	57.20	
9634000523	316L	1.5"	38.10	2.50	63.50	
9634000524	316L	2"	50.80	3.00	76.20	
9634000525	316L	2.5"	63.50	3.38	85.70	
9634000526	316L	3"	76.20	3.63	92.10	
9634000527	316L	4"	101.60	4.50	114.30	
9634048643	316L	6"	152.40	6.25	158.80	

Tri-Clover 3A Bends 90

Hygienic fittings

ALSIS Code: 5009, 5010, 5018

Model: Bends 90
Standard: 3A
Finish: #7 (ID=32/OD=32µin)

Item no.	Material	Size		Dimension				
		Inch	mm	A (Inch)	A (mm)	B (Inch)	B (mm)	
2CMP-31MP								
210007	304	2"	50.80	2.75	69.90			
210008	304	2.5"	63.50	3.50	88.90			
210033	304	3"	76.20	3.50	88.90			
210058	304	3"	76.20	4.25	108.00			
2WCL								
060084	304L	1.5"	38.10	2.25	57.20			
060033	304L	2"	50.80	3.00	76.20			
060185	304L	2.5"	63.50	3.75	95.30			
060275	304L	4"	101.60	6.00	152.40			
060293	304L	6"	152.40	9.00	228.60			
060589	316L	1"	25.40	1.50	38.10			
060590	316L	1.5"	38.10	2.25	57.20			
060421	316L	2"	50.80	3.00	76.20			
060025	316L	2.5"	63.50	3.75	95.30			
060281	316L	3"	76.20	4.50	114.30			
060591	316L	4"	101.60	6.00	152.40			
060268	316L	6"	152.40	9.00	228.60			
B2CMP								
9634002915	304	1"	25.40	2.00	50.80			
9634002916	304	1.5"	38.10	2.75	69.90			
9634002917	304	2"	50.80	3.50	88.90			
9634002918	304	2.5"	63.50	4.25	108.00			
9634002919	304	3"	76.20	5.00	127.00			
9634002920	304	4"	101.60	6.63	168.30			
9634002936	316L	1"	25.40	2.00	50.80			
9634002937	316L	1.5"	38.10	2.75	69.90			
9634002938	316L	2"	50.80	3.50	88.90			
9634002939	316L	2.5"	63.50	4.25	108.00			
9634002940	316L	3"	76.20	5.00	127.00			
9634002941	316L	4"	101.60	6.63	168.30			
9634050009	316L	6"	152.40	10.50	266.70			
B2S								
9634000308	304	1"	25.40	3.00	76.20			
9634000309	304	1.5"	38.10	3.75	95.30			
9634000310	304	2"	50.80	4.75	120.70			
9634000311	304	2.5"	63.50	5.50	139.70			
9634000312	304	3"	76.20	6.25	158.80			
9634000313	304	4"	101.60	8.00	203.20			
9634000322	316L	1"	25.40	3.00	76.20			
9634000323	316L	1.5"	38.10	3.75	95.30			
9634000324	316L	2"	50.80	4.75	120.70			
9634000325	316L	2.5"	63.50	5.50	139.70			

Item no.	Material	Size		Dimension					
		Inch	mm	A (Inch)	A (mm)	B (Inch)	B (mm)		
								B2S	
9634000326	316L	3"	76.20	6.25	158.80				
9634000327	316L	4"	101.60	8.00	203.20				
9634048644	316L	6"	152.40	11.50	292.10				
								L2CM	
240226	304	1"	25.40	2.06	52.40	2.56	65.10		
241229	304	1.5"	38.10	2.94	74.60	3.44	87.30		
242227	304	2"	50.80	4.06	103.20	4.56	115.90		
243229	304	2.5"	63.50	5.19	131.80	5.69	144.50		
244229	304	3"	76.20	6.31	160.30	6.81	173.00		
245210	304	4"	101.60	8.31	211.10	8.94	227.00		
246076	316L	1"	25.40	2.06	52.40	2.56	65.10		
246038	316L	1.5"	38.10	2.94	74.60	3.44	87.30		
245920	316L	2"	50.80	4.06	103.20	4.56	115.90		
246100	316L	2.5"	63.50	5.19	131.80	5.69	144.50		
246096	316L	3"	76.20	6.31	160.30	6.81	173.00		
242068	316L	4"	101.60	8.31	211.10	8.94	227.00		
									L2S
240403	304	1"	24.40	2.06	52.40				
241403	304	1.5"	38.10	2.94	74.60				
242403	304	2"	25.40	4.06	103.20				
243403	304	2.5"	63.50	5.19	131.80				
244403	304	3"	76.20	6.31	160.30				
245904	316L	1"	25.40	2.06	52.40				
240015	316L	1.5"	38.10	2.94	74.60				
240034	316L	2"	50.80	4.06	103.20				
245966	316L	2.5"	63.50	5.19	131.80				
240012	316L	3"	76.20	6.31	160.30				

Tri-Clover 3A Clamp Ferrules

Hygienic fittings

ALSIS Code: 5046

Model: Ferrule
Standard: 3A
Finish: #7 (ID=32/OD=32µin)

Item no.	Material	Size	Dimension (Inch)				
			Inch	A	B		C
14MPW							
210519	304	1"	1.63	0.88	1.16		
210465	304	1.5"	1.63	1.38	1.67		
210466	304	2"	1.75	1.88	2.19		
210467	304	2.5"	1.75	2.38	2.70		
210468	304	3"	1.81	2.88	3.22		
210469	304	4"	2.13	3.83	4.25		
210525	316L	1"	1.63	0.88	1.16		
210526	316L	1.5"	1.63	1.38	1.67		
210527	316L	2"	1.75	1.88	2.19		
210528	316L	2.5"	1.75	2.38	2.70		
210529	316L	3"	1.81	2.88	3.22		
210530	316L	4"	2.13	3.83	4.25		
14RMP							
210447	304	1"	0.75	1.00			
210449	304	1.5"	1.13	1.50			
210450	304	2"	1.31	2.00			
210451	304	2.5"	1.38	2.50			
210452	304	3"	1.44	3.00			
210454	304	4"	1.50	4.00			
213447	316L	1"	0.75	1.00			
213449	316L	1.5"	1.13	1.50			
213450	316L	2"	1.31	2.00			
213451	316L	2.5"	1.38	2.50			
213452	316L	3"	1.44	3.00			
14WLMO							
261218	304	6"	6.00	6.58			
260235	316L	6"	6.00	6.58			

Item no.	Material	Size	Dimension (Inch)				
			Inch	A	B		C
14WLMP							
210908	304	1"	3.00	1.98			
210491	304	1.5"	3.00	1.98			
212101	304	2"	3.00	2.52			
212108	304	2.5"	3.00	3.05			
211209	304	3"	4.00	3.58			
210492	304	4"	4.00	4.69			
210348	316L	1"	3.00	1.98			
210374	316L	1.5"	3.00	1.98			
210375	316L	2"	3.00	2.52			
210376	316L	2.5"	3.00	3.05			
210377	316L	3"	4.00	3.58			
210378	316L	4"	4.00	4.69			
14WMP5							
610854	304	1"	0.50	1.98			
610855	304	1.5"	0.50	1.98			
610856	304	2"	0.50	2.52			
610857	304	2.5"	0.50	3.05			
610858	304	3"	0.50	3.58			
610859	304	4"	0.63	4.69			
88123417	304	6"	1.50	6.57			
610205	316L	0.5"	0.50	0.98			
610238	316L	0.75"	0.50	0.98			
610365	316L	1"	0.50	1.98			
610367	316L	1.5"	0.50	1.98			
610368	316L	2"	0.50	2.52			
610369	316L	2.5"	0.50	3.05			
610370	316L	3"	0.50	3.58			
610373	316L	4"	0.63	4.69			
L14AM							
240606	304	1"	1.13	1.98			
241605	304	1.5"	1.13	1.98			
242605	304	2"	1.13	2.52			
243605	304	2.5"	1.13	3.05			
244606	304	3"	1.13	3.58			
245596	304	4"	1.13	4.69			
664634	304	8"	1.50	8.57			
664642	304	12"	1.75	12.57			
660016	304L	6"	1.50	6.58			
240644	316L	1"	1.13	1.98			
240028	316L	1.5"	1.13	1.98			
240027	316L	2"	1.13	2.52			
246226	316L	2.5"	1.13	3.05			
246124	316L	3"	1.13	3.58			
246200	316L	4"	1.13	4.69			
9634049938	316L	6"	1.50	6.58			
660001	316L	6"	1.50	6.57			
660025	316L	8"	1.50	8.57			

Tri-Clover 3A Clamp Ferrules

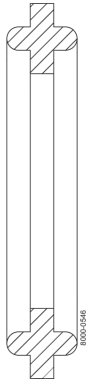
Hygienic fittings

ALSIS Code: 5046

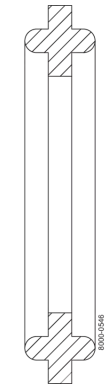
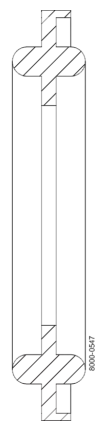
Model: Ferrule
 Standard: 3A
 Finish: #7 (ID=32/OD=32µin)

Item no.	Material	Size	Dimension (Inch)			
			Inch	A	B	
L14AM						
660026	316L	10"	1.50	10.57		
660027	316L	12"	1.75	12.57		


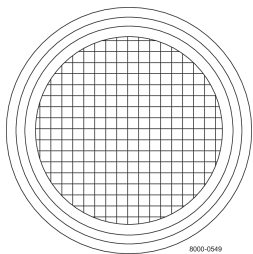
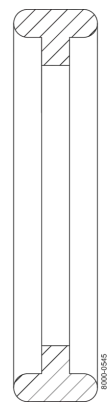
ALSIS Code: 5065

Item no.	Material	Size	
		Inch	
40MP			
298451	Buna (U)	1"	
298452	Buna (U)	1.5"	
298453	Buna (U)	2"	
298454	Buna (U)	2.5"	
298455	Buna (U)	3"	
298456	Buna (U)	4"	
290112	Buna (U)	6"	
290141	EPDM (E)	1"	
290044	EPDM (E)	1.5"	
290043	EPDM (E)	2"	
290048	EPDM (E)	2.5"	
290036	EPDM (E)	3"	
290018	EPDM (E)	4"	
290234	EPDM (E)	6"	
298224	PTFE (G)	1"	
298227	PTFE (G)	1.5"	
298228	PTFE (G)	2"	
298223	PTFE (G)	2.5"	
298225	PTFE (G)	3"	
298226	PTFE (G)	4"	
298235	PTFE (G)	6"	
290009	SFY	1"	
290022	SFY	1.5"	
290030	SFY	2"	
290040	SFY	2.5"	
290049	SFY	3"	
290053	SFY	4"	
290220	SFY	6"	
290071	SFYW	1"	
290070	SFYW	1.5"	
290062	SFYW	2"	
290057	SFYW	2.5"	
290055	SFYW	3"	
290086	SFYW	4"	
298501	White Buna (UW)	1"	
298495	White Buna (UW)	1.5"	
298496	White Buna (UW)	2"	
298499	White Buna (UW)	2.5"	
298497	White Buna (UW)	3"	
298498	White Buna (UW)	4"	
290195	White Buna (UW)	6"	
9636000813	White EPDM (EW)	1"	
9636000814	White EPDM (EW)	1.5"	
9636000815	White EPDM (EW)	2"	
9636000816	White EPDM (EW)	2.5"	
9636000817	White EPDM (EW)	3"	
9636000818	White EPDM (EW)	4"	

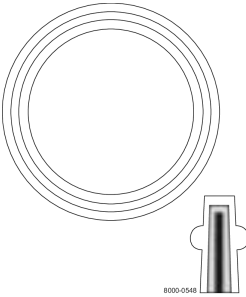
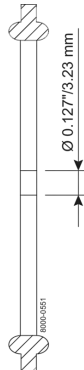
ALSIS Code: 5065

Item no.	Material	Size	
		Inch	
40MP			
9636000819	White EPDM (EW)	6"	
298512	White silicone	1"	
298507	White silicone	1.5"	
9636000691	White silicone	1.5"	
9636000690	White silicone	1.5"	
298508	White silicone	2"	
9636000692	White silicone	2"	
298509	White silicone	2.5"	
9636000693	White silicone	2.5"	
298510	White silicone	3"	
9636000694	White silicone	3"	
298511	White silicone	4"	
9636000695	White silicone	4"	
40MPF			
298346	Buna (U)	1"	
298347	Buna (U)	1.5"	
298376	Buna (U)	2"	
298348	Buna (U)	2.5"	
298375	Buna (U)	3"	
298349	Buna (U)	4"	
298220	Buna (U)	6"	
290031	EPDM (E)	1"	
290038	EPDM (E)	1.5"	
290017	EPDM (E)	2"	
290035	EPDM (E)	2.5"	
290138	EPDM (E)	3"	
290025	EPDM (E)	4"	
290131	EPDM (E)	6"	
290097	SFY	1"	
290115	SFY	1.5"	
290117	SFY	2"	
290118	SFY	2.5"	
290119	SFY	3"	
290172	SFY	4"	
290182	SFY	6"	
9635000100	Silicone no dot	1"	
9635000101	Silicone no dot	1.5"	
9635000102	Silicone no dot	2"	
9635000103	Silicone no dot	3"	
9635000104	Silicone no dot	4"	
298308	White Buna (UW)	1"	
298431	White Buna (UW)	1.5"	
298417	White Buna (UW)	2"	
290069	White Buna (UW)	2.5"	
298432	White Buna (UW)	3"	
298433	White Buna (UW)	4"	

ALSIS Code: 5065

Item no.	Material	Size	
		Inch	
40MPF			
290236	White Buna (UW)	6"	
298411	White silicone	1"	
298412	White silicone	1.5"	
298413	White silicone	2"	
298414	White silicone	2.5"	
298415	White silicone	3"	
298416	White silicone	4"	
298605	White silicone	6"	
40MPS			
298488	Buna (U)	1.5"	
298434	Buna (U)	2"	
298436	Buna (U)	2.5"	
290034	Buna (U)	3"	
298438	Buna (U)	4"	
42MP			
290272	Buna (U)	0.5"	
290264	Buna (U)	0.75"	
290285	Buna (U)	2"	
290273	EPDM (E)	0.5"	
9615356701	EPDM (E)	0.5"	
290265	EPDM (E)	0.75"	
290105	EPDM (E)	2"	
290270	PTFE (G)	0.5"	
290271	PTFE (G)	0.75"	
9614006404	PTFE (G)	1"	
290274	SFY	0.5"	
290266	SFY	0.75"	
9614006403	SFY	1"	
3104694	SFY	2"	
290090	Silicone (Q)	0.5"	
290099	Silicone (Q)	0.75"	

ALSIS Code: 5065

Item no.	Material	Size	
		Inch	
A40MP envelope			
290072	GR	1"	
290073	GR	1.5"	
290074	GR	2"	
290075	GR	2.5"	
290076	GR	3"	
290077	GR	4"	
290085	GR	6"	
A80MP			
290248	316/EPDM	1.5"	
290255	316/EPDM	2"	
290314	316/EPDM	2.5"	
290275	316/EPDM	3"	
290207	316/SFY	1.5"	
290001	316/SFY	2"	
290002	316/SFY	2.5"	
290180	316/SFY	3"	
290216	316/U	1.5"	
290221	316/U	2"	
290222	316/U	2.5"	
290223	316/U	3"	

ALSIS Code: 5049

Item no.	Material	Size		Dimension		
		Inch	mm	A (Inch)	A (mm)	
13MHHS						
211283	304	1.5"	38.10	2.13	54.00	
211284	304	2"	50.80	2.66	67.50	
211286	304	2.5"	63.50	3.19	81.00	
211287	304	3"	76.20	3.72	94.50	
211289	304	4"	101.60	4.83	122.60	
S13MHM						
8010000375	304	1-1.5"	25.40-38.10			
8010000377	304	2"	50.80			
8010000378	304	2.5"	63.50			
8010000379	304	3"	76.20			
8010000380	304	4"	101.60			
8010000381	304	6"	152.40			

Tri-Clover 3A Crosses

Hygienic fittings

ALSIS Code: 5029, 5030

Model: Cross
Standard: 3A
Finish: #7 (ID=32/OD=32µin)

Item no.	Material	Size	Dimension A			
			Inch	mm		
B9MP						
9634003515	304	1"	2.63	66.70		
9634003516	304	1.5"	2.88	73.00		
9634003517	304	2"	3.38	85.70		
9634003519	304	3"	3.88	98.40		
9634003520	304	4"	4.75	120.70		
9634003536	316L	1"	2.63	66.70		
9634003537	316L	1.5"	2.88	73.00		
9634003538	316L	2"	3.38	85.70		
9634003539	316L	2.5"	3.63	92.10		
9634003540	316L	3"	3.88	98.40		
B9WWWW						
9634000908	304	1"	2.13	54.00		
9634000909	304	1.5"	2.38	60.30		
9634000910	304	2"	2.88	73.00		
9634000911	304	2.5"	3.13	79.40		
9634000912	304	3"	3.38	85.70		
9634000913	304	4"	4.13	104.80		
9634000922	316L	1"	2.13	54.00		
9634000923	316L	1.5"	2.38	60.30		
9634000924	316L	2"	2.88	73.00		
9634000925	316L	2.5"	3.13	79.40		
9634000926	316L	3"	3.38	85.70		
9634000927	316L	4"	4.13	104.80		

ALSIS Code: 5046

Model: End cap
 Standard: 3A
 Finish: #7 (ID=32/OD=32µin)

Item no.	Material	Size	Dimension A		Dimension B		
			Inch	mm	Inch	mm	
							16AMP
210501	304	1.5"	0.25	6.40	1.98	50.40	
210502	304	2"	0.25	6.40	2.52	63.90	
210503	304	2.5"	0.25	6.40	3.05	77.40	
210504	304	3"	0.25	6.40	3.58	90.00	
210506	304L	4"	0.25	6.40	4.69	119.10	
261220	304L	6"	0.44	6.58	6.58	167.10	
210518	316L	0.75"	0.19	4.80	0.98	24.90	
210854	316L	1.5"	0.25	6.40	1.98	50.40	
210855	316L	2"	0.25	6.40	2.52	63.90	
210856	316L	2.5"	0.25	6.40	3.05	77.40	
210857	316L	3"	0.25	6.40	3.58	90.00	
210858	316L	4"	0.25	6.40	4.69	119.10	
260237	316L	6"	0.44	6.58	6.58	167.10	

Tri-Clover 3A Hose Adapters

Hygienic fittings

ALSIS Code: 5046

Model: Adapter
 Standard: Hygienic
 Finish: #7 (ID=32/OD=32µin)

Item no.	Material	Size		Dimension A		
		Inch	Inch	Inch	mm	
14MPHR						
211469	304	1"	1"	1.69	42.90	
211393	304	1.5"	1.5"	1.69	42.90	
211387	304	2"	2"	2.31	58.70	
211480	304	2.5"	2.5"	2.00	50.80	
211481	304	3"	3"	3.11	79.00	
211482	304	4"	4"	3.41	86.50	
213384	316L	1"	1"	42.90	42.90	
213382	316L	1.5"	1.5"	42.90	42.90	
213383	316L	2"	2"	58.70	58.70	
210722	316L	2.5"	2.5"	50.80	50.80	
211534	316L	3"	3"	79.00	79.00	
211535	316L	4"	4"	86.5	86.50	

Item no.	Material	Size	Size	Dimension A		
		DN/OD	Inch	Inch	mm	
B32-14MP						
963460007	304	1.5"	1"	3.00	76.20	
963460010	304	2"	1.5"	3.00	76.20	
963460009	304	2.5"	2"	3.00	76.20	
963460013	304	3"	2"	5.00	127.00	
963460012	304	3"	2.5"	3.00	76.20	
963460016	304	4"	3"	5.13	130.20	
9634039816	316L	1.5"	1"	3.00	76.20	
9634039817	316L	2"	1"	5.00	127.00	
9634039818	316L	2"	1.5"	3.00	76.20	
9634039821	316L	2.5"	2"	3.00	76.20	
9634039820	316L	2.5"	1.5"	5.00	127.00	
9634039824	316L	3"	2"	5.00	127.00	
9634039825	316L	3"	2.5"	3.00	76.20	
9634039830	316L	4"	3"	5.13	130.20	
9634039828	316L	4"	2"	231.90	9.13	
9634050021	316L	6"	4"	7.63	193.70	
L32						
240976	316L	1.5"	1"	2.00	50.80	
240977	316L	2"	1"	4.00	101.60	
240978	316L	2"	1.5"	2.00	50.80	
240979	316L	2.5"	1.5"	4.00	101.60	
240980	316L	2.5"	2"	2.00	50.80	
240982	316L	3"	2"	4.00	101.60	
240983	316L	3"	2.5"	2.00	50.80	
240984	316L	4"	2"	8.00	203.20	
240986	316L	4"	3"	4.00	101.60	
240985	316L	4"	2.5"	6.00	152.40	
9634049354	316L	6"	4"	5.50	139.70	
9634050002	316L	6"	3"	5.50	139.70	

Tri-Clover 3A Hygienic Reducers Concentric

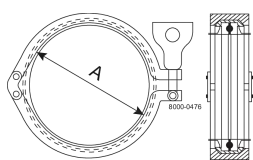
Hygienic fittings

ALSIS Code: 5069, 5070

Model: Concentric Reducers
Standard: 3A
Finish: #7 (ID=32/OD=32µin)

Item no.	Material	Size			Dimension A		
		Inch	Inch	mm	Inch	mm	
B31-14MP							
9634054258	304	1.5"	1"	38.10 x 25.40	3.00	76.20	
9634054260	304	2"	1.5"	50.80 x 38.10	3.00	76.00	
9634054259	304	2"	1"	50.80 x 25.40	5.00	127.00	
9634054262	304	2.5"	2"	63.50 x 50.80	76.20	3.00	
9634069011	304	2.5"	1.5"	63.50 x 38.10	5.00	127.00	
9634600002	304	3"	2.5"	76.20 x 63.50	3.00	76.00	
9634600003	304	3"	2"	76.20 x 50.80	5.00	127.00	
9634600006	304	4"	3"	101.60 x 76.20	5.13	130.20	
9634039716	316L	1.5"	1"	38.10 x 25.40	3.00	76.20	
9634039718	316L	2"	1.5"	50.80 x 38.10	3.00	76.20	
9634039717	316L	2"	1"	50.80 x 25.40	5.00	127.00	
9634039721	316L	2.5"	2"	63.50 x 50.80	3.00	76.20	
9634039720	316L	2.5"	1.5"	63.50 x 38.10	5.00	127.00	
9634039724	316L	3"	2"	76.20 x 50.80	5.00	127.00	
9634039725	316L	3"	2.5"	76.20 x 63.50	3.00	76.20	
9634039730	316L	4"	3"	101.60 x 76.20	5.13	130.20	
9634039728	316L	4"	2"	101.60 x 50.80	231.90	9.13	
9634050022	316L	6"	3"	152.40 x 76.21	7.63	193.70	
9634050025	316L	6"	4"	152.40 x 101.60	7.63	193.70	
L31							
244795	304	3"	2.5"	76.20 x 63.50	50.80	2.00	
246214	316L	1.5"	1"	38.10 x 25.40	2.00	50.80	
9634047934	316L	2"	1"	50.80 x 25.40	4.00	101.60	
240030	316L	2"	1.5"	50.80 x 38.10	2.00	50.80	
240962	316L	2.5"	1.5"	63.50 x 38.10	4.00	101.60	
246005	316L	2.5"	2"	63.50 x 50.80	2.00	50.80	
240029	316L	3"	2"	76.20 x 50.80	4.00	101.60	
246036	316L	3"	2.5"	76.20 x 63.50	2.00	50.80	
246129	316L	3"	1.5"	76.20 x 38.10	6.00	152.40	
240963	316L	4"	2"	101.60 x 50.80	8.00	203.20	
240964	316L	4"	2.5"	101.60 x 63.50	6.00	152.40	
246067	316L	4"	3"	101.60 x 76.20	4.00	101.60	
9634049356	316L	6"	4"	152.40 x 101.60	5.50	139.70	
9634049355	316L	6"	3"	152.40 x 76.20	5.50	139.70	

Item no.	Material	Size		Dimension A		Dimension B		
		Inch	Inch	Inch	mm	Inch	mm	
B7RMP								
9634003834	304	2"	1"	3.38	85.70	3.13	79.40	
9634003882	316L	2"	1"	3.38	85.70	3.13	79.40	
9634003883	316L	2"	1.5"	3.38	85.70	3.13	79.40	
B7RWWW								
9634001217	304	1.5"	1"	2.38	60.30	2.38	60.30	
9634001219	304	2"	1.5"	2.88	73.00	2.63	66.70	
9634001218	304	2"	1"	2.88	73.00	2.63	66.70	
9634001220	304	2.5"	1"	3.13	79.40	2.88	73.00	
9634001221	304	2.5"	1.5"	3.13	79.40	2.88	73.00	
9634001222	304	2.5"	2"	3.13	79.40	2.88	73.00	
9634001224	304	3"	1.5"	3.38	85.70	3.13	79.40	
9634001223	304	3"	1"	3.38	85.70	2.88	79.40	
9634001225	304	3"	2"	3.38	85.70	3.13	79.40	
9634001226	304	3"	2.5"	3.38	85.70	3.13	79.40	
9634001227	304	4"	1"	4.13	104.80	3.13	92.10	
9634001228	304	4"	1.5"	4.13	104.80	3.63	92.10	
9634001229	304	4"	2"	4.13	104.80	3.88	98.40	
9634001230	304	4"	2.5"	4.13	104.80	3.88	98.40	
9634001231	304	4"	3"	4.13	104.80	3.88	98.40	
9636000646	304	6"	4"	5.63	142.90	5.13	130.20	
9634001249	316L	1.5"	1"	2.38	60.30	2.38	60.30	
9634001250	316L	2"	1"	2.88	73.00	2.63	66.70	
9634001251	316L	2"	1.5"	2.88	73.00	2.63	66.70	
9634001253	316L	2.5"	1.5"	3.13	79.40	2.88	73.00	
9634001254	316L	2.5"	2"	3.13	79.40	2.88	73.00	
9634001252	316L	2.5"	1"	3.13	79.40	2.88	73.00	
9634001257	316L	3"	2"	3.38	85.70	3.13	79.40	
9634001255	316L	3"	1"	3.38	85.70	2.88	79.40	
9634001256	316L	3"	1.5"	3.38	85.70	3.13	79.40	
9634001258	316L	3"	2.5"	3.38	85.70	3.13	79.40	
9634001261	316L	4"	2"	4.13	104.80	3.88	98.40	
9634001263	316L	4"	3"	4.13	104.80	3.88	98.40	
9634001260	316L	4"	1.5"	4.13	104.80	3.63	92.10	
9634001262	316L	4"	2.5"	4.13	104.80	3.88	98.40	
9634001259	316L	4"	1"	4.13	104.80	3.13	92.10	
9634001264	316L	6"	4"	5.63	142.90	5.13	130.20	
9634048305	316L	6"	2"	5.63	142.90	5.13	130.20	
9634048307	316L	6"	3"	5.63	142.90	5.13	130.20	
9634048303	316L	6"	1"	5.63	142.90	5.13	130.20	
9634048304	316L	6"	1.5"	5.63	142.90	5.13	130.20	
9634048306	316L	6"	2.5"	5.63	142.90	5.13	130.20	

Item no.	Material	Size		Dimension A		
		Inch	mm	Inch	mm	
						A12MPS
210135	304	1.5"	38.10	1.98	50.40	
210136	304	2"	50.80	2.52	63.90	
210137	304	2.5"	63.50	3.05	77.40	
210138	304	3"	76.20	3.58	90.90	
210140	304	4"	101.60	4.69	119.10	

Item no.	Material	Size		Dimension A			
		Inch	mm	Inch	mm		
B7MP							
9634003315	304	1"	25.40	2.63	66.70		
9634003316	304	1.5"	38.10	2.88	73.00		
9634003317	304	2"	50.80	3.38	85.70		
9634003318	304	2.5"	63.50	3.63	92.10		
9634003319	304	3"	76.20	3.88	98.40		
9634003320	304	4"	101.60	7.13	181.00		
9634003336	316L	1"	25.40	2.63	66.70		
9634003337	316L	1.5"	38.10	2.88	73.00		
9634003338	316L	2"	50.80	3.38	85.70		
9634003339	316L	2.5"	63.50	3.63	92.10		
9634003340	316L	3"	76.20	3.88	98.40		
9634003341	316L	4"	101.60	7.13	181.00		
9634003342	316L	6"	152.40	7.13	181.00		
B7WWW							
9634000708	304	1"	25.40	2.13	54.00		
9634000709	304	1.5"	38.10	2.38	60.30		
9634000710	304	2"	50.80	2.88	73.00		
9634000711	304	2.5"	63.50	3.13	79.40		
9634000712	304	3"	76.20	3.38	85.70		
9634000713	304	4"	101.60	4.13	104.80		
9634000722	316L	1"	25.40	2.13	54.00		
9634000723	316L	1.5"	38.10	2.38	60.30		
9634000724	316L	2"	50.80	2.88	73.00		
9634000725	316L	2.5"	63.50	3.13	79.40		
9634000726	316L	3"	76.20	3.38	85.70		
9634000727	316L	4"	101.60	4.13	104.80		
9634000728	316L	6"	152.40	5.63	142.90		
L7WWW							
9613466607	304L	1"	25.40	1.13	28.60		
9613466608	304L	1.5"	38.10	1.66	42.10		
9613466609	304L	2"	50.80	2.06	52.40		
9613466610	304L	2.5"	63.50	2.34	59.50		
9613466611	304L	3"	76.20	2.59	65.90		
9613466612	304L	4"	101.60	3.44	87.30		
9613466619	316L	1"	25.40	1.13	28.60		
9613466620	316L	1.5"	38.10	1.66	42.10		
9613466621	316L	2"	50.80	2.06	52.40		
9613466622	316L	2.5"	63.50	2.34	59.50		
9613466623	316L	3"	76.20	2.59	65.90		
9613466624	316L	4"	101.60	3.44	87.30		

Tri-Clover 3A Thermometer Caps

Hygienic fittings

ALSIS Code: 5046

Model: Thermometer Cap
 Standard: Hygienic
 Finish: #7 (ID=32/OD=32µin)

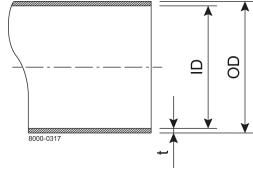
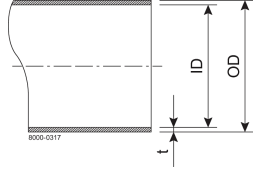
Item no.	Material	Size		Dimension A	Dimension B	
		Inch	Inch	Inch	Inch	
23BMP NPT						
210623	304	1"	0.5"	1.98	0.63	
210596	304	1.5"	0.75"	1.98	0.63	
210622	304	1.5"	0.375"	1.98	0.63	
210624	304	1.5"	1"	1.98	0.63	
211438	304	1.5"	0.25"	1.98	0.63	
210626	304	2"	0.75"	2.52	0.63	
211443	304	2"	0.5"	2.52	0.63	
211348	304	2"	1"	2.52	0.63	
211448	304	2.5"	0.75"	3.05	0.63	
211555	304	3"	0.75"	3.58	0.63	
211439	304	4"	0.75"	4.69	0.63	
214206	316L	1"	0.5"	1.98	0.63	
211677	316L	1.5"	0.75"	1.98	0.63	
210071	316L	1.5"	0.25"	1.98	0.63	
210339	316L	1.5"	0.375"	1.98	0.63	
211916	316L	1.5"	1"	1.98	0.63	
213599	316L	2"	0.75"	2.52	0.63	
211739	316L	2"	0.5"	2.52	0.63	
610723	316L	2.5"	0.75"	3.05	0.63	
610724	316L	3"	0.75"	3.58	0.63	
610726	316L	4"	0.75"	4.69	0.63	
23BMP SOLID						
615959	304	1.5"		1.98	0.63	
615958	304	2"		2.52	0.63	
615960	304	2.5"		3.05	0.63	
615961	304	3"		3.58	0.63	
615966	316L	1.5"		1.98	0.63	
615967	316L	2"		2.52	0.63	
615969	316L	3"		3.58	0.63	
615971	316L	4"		4.69	0.63	

Hygienic tubes

Ordering leaflet	
DIN EN 10357-A Tubes	188
ISO EN 10357-D Tubes	190

Item no.	Material	Size	Dimension (mm)		
			OD/ID x t		
BC (ID/OD=0.8)					
9611819798	1.4301 (304)	DN15	19.00/16.00 x 1.50		
9611819800	1.4301 (304)	DN20	23.00/20.00 x 1.50		
9611819802	1.4301 (304)	DN25	29.00/26.00 x 1.50		
9611819804	1.4301 (304)	DN32	35.00/32.00 x 1.50		
9611819806	1.4301 (304)	DN40	41.00/38.00 x 1.50		
9611819808	1.4301 (304)	DN50	53.00/50.00 x 1.50		
9611819171	1.4301 (304)	DN65	70.00/66.00 x 2.00		
9611819176	1.4301 (304)	DN80	85.00/81.00 x 2.00		
9611819186	1.4301 (304)	DN100	104.00/100.00 x 2.00		
9611819647	1.4404 (316L)	DN15	19.00/16.00 x 1.50		
9611819648	1.4404 (316L)	DN20	23.00/20.00 x 1.50		
9611819649	1.4404 (316L)	DN25	29.00/26.00 x 1.50		
9611819650	1.4404 (316L)	DN32	35.00/32.00 x 1.50		
9611819651	1.4404 (316L)	DN40	41.00/38.00 x 1.50		
9611819652	1.4404 (316L)	DN50	53.00/50.00 x 1.50		
9611819363	1.4404 (316L)	DN65	70.00/66.00 x 2.00		
9611819656	1.4404 (316L)	DN80	85.00/81.00 x 2.00		
9611819657	1.4404 (316L)	DN100	104.00/100.00 x 2.00		
BD (ID/OD=0.8)					
9611819440	1.4307 (304L)	DN20	19.00/16.00 x 1.50		
9611819442	1.4307 (304L)	DN20	23.00/20.00 x 1.50		
9611819133	1.4307 (304L)	DN25	29.00/26.00 x 1.50		
9611819443	1.4307 (304L)	DN32	35.00/32.00 x 1.50		
9611819444	1.4307 (304L)	DN40	41.00/38.00 x 1.50		
9611819445	1.4307 (304L)	DN50	53.00/50.00 x 1.50		
9611819170	1.4307 (304L)	DN65	70.00/66.00 x 2.00		
9611819175	1.4307 (304L)	DN80	85.00/81.00 x 2.00		
9611819184	1.4307 (304L)	DN100	104.00/100.00 x 2.00		
9611819592	1.4404 (316L)	DN15	19.00/16.00 x 1.50		
9611819594	1.4404 (316L)	DN20	23.00/20.00 x 1.50		
9611819596	1.4404 (316L)	DN25	29.00/26.00 x 1.50		
9611819598	1.4404 (316L)	DN32	35.00/32.00 x 1.50		
9611819544	1.4404 (316L)	DN40	41.00/38.00 x 1.50		
9611819554	1.4404 (316L)	DN50	53.00/50.00 x 1.50		
9611819365	1.4404 (316L)	DN65	70.00/66.00 x 2.00		
9611819375	1.4404 (316L)	DN80	85.00/81.00 x 2.00		
9611819388	1.4404 (316L)	DN100	104.00/100.00 x 2.00		
CC (ID=0.8/OD=Pickled)					
9611819519	1.4301 (304)	DN25	29.00/26.00 x 1.50		
9611819520	1.4301 (304)	DN32	35.00/32.00 x 1.50		
9611819521	1.4301 (304)	DN40	41.00/38.00 x 1.50		
9611819522	1.4301 (304)	DN50	53.00/50.00 x 1.50		
9611819689	1.4301 (304)	DN65	70.00/66.00 x 2.00		
9611819690	1.4301 (304)	DN80	85.00/81.00 x 2.00		
9611819691	1.4301 (304)	DN100	104.00/100.00 x 2.00		
9611819692	1.4301 (304)	DN125	129.00/125.00 x 2.00		
9611819693	1.4301 (304)	DN150	154.00/150.00 x 2.00		

PPL prices per meter are updated monthly.
Please contact your Alfa Laval person for further information.

Item no.	Material	Size	Dimension (mm)		
			OD/ID x t		
CC (ID=0.8/OD=Pickled)					
9611819683	1.4307 (304L)	DN15	19.00/16.00 x 1.50		
9611819528	1.4404 (316L)	DN15	19.00/16.00 x 1.50		
9611819529	1.4404 (316L)	DN20	23.00/20.00 x 1.50		
9611819627	1.4404 (316L)	DN25	29.00/26.00 x 1.50		
9611819628	1.4404 (316L)	DN32	35.00/32.00 x 1.50		
9611819629	1.4404 (316L)	DN40	41.00/38.00 x 1.50		
9611819630	1.4404 (316L)	DN50	53.00/50.00 x 1.50		
9611819631	1.4404 (316L)	DN65	70.00/66.00 x 2.00		
9611819632	1.4404 (316L)	DN80	85.00/81.00 x 2.00		
9611819633	1.4404 (316L)	DN100	104.00/100.00 x 2.00		
9611819634	1.4404 (316L)	DN125	129.00/125.00 x 2.00		
9611819534	1.4404 (316L)	DN150	154.00/150.00 x 2.00		
CD (ID=0.8/OD=1.0)					
9611819674	1.4301 (304)	DN25	29.00/26.00 x 1.50		
9611819675	1.4301 (304)	DN32	35.00/32.00 x 1.50		
9611819676	1.4301 (304)	DN40	41.00/38.00 x 1.50		
9611819677	1.4301 (304)	DN50	53.00/50.00 x 1.50		
9611819425	1.4301 (304)	DN65	70.00/66.00 x 2.00		
9611819426	1.4301 (304)	DN80	85.00/81.00 x 2.00		
9611819427	1.4301 (304)	DN100	104.00/100.00 x 2.00		
9611819428	1.4301 (304)	DN125	129.00/125.00 x 2.00		
9611819429	1.4301 (304)	DN150	154.00/150.00 x 2.00		
9611819660	1.4307 (304L)	DN15	19.00/16.00 x 1.50		
9611819661	1.4307 (304L)	DN20	23.00/20.00 x 1.50		
9611819413	1.4404 (316L)	DN15	19.00/16.00 x 1.50		
9611819414	1.4404 (316L)	DN20	23.00/20.00 x 1.50		
9611819435	1.4404 (316L)	DN25	29.00/26.00 x 1.50		
9611819436	1.4404 (316L)	DN32	35.00/32.00 x 1.50		
9611819437	1.4404 (316L)	DN40	41.00/38.00 x 1.50		
9611819438	1.4404 (316L)	DN50	53.00/50.00 x 1.50		
9611819450	1.4404 (316L)	DN65	70.00/66.00 x 2.00		
9611819451	1.4404 (316L)	DN80	85.00/81.00 x 2.00		
9611819935	1.4404 (316L)	DN100	104.00/100.00 x 2.00		
9611819936	1.4404 (316L)	DN125	129.00/125.00 x 2.00		
9611819449	1.4404 (316L)	DN150	154.00/150.00 x 2.00		

PPL prices per meter are updated monthly.
Please contact your Alfa Laval person for further information.

ALSIS Code: 5102
 Standard: ISO 2037 EN 10357-D

Tubes of manufacturing lengths of approx 6 meters

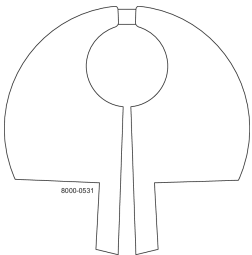
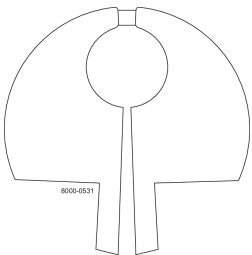

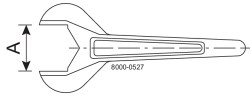
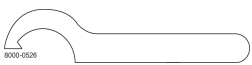


Item no.	Material	Size	Dimension (mm)	
		mm	OD/ID x t	
BC (ID=0.8/OD=Pickled or Bright annealed)				
9611819863	1.4301 (304)	38.0 mm	38.00/35.60 x 1.20	
9611819864	1.4301 (304)	51.0 mm	51.00/48.60 x 1.20	
9611819865	1.4301 (304)	63.5 mm	63.50/60.30 x 1.60	
9611819866	1.4301 (304)	76.1 mm	76.10/72.90 x 1.60	
9611819867	1.4301 (304)	101.6 mm	101.60/97.60 x 2.00	
9611819008	1.4307 (304L)	25.0 mm	25.00/22.60 x 1.20	
9611819868	1.4404 (316L)	25.0 mm	25.00/22.60 x 1.20	
9611819870	1.4404 (316L)	38.0 mm	38.00/35.60 x 1.20	
9611819871	1.4404 (316L)	51.0 mm	51.00/48.60 x 1.20	
9611819872	1.4404 (316L)	63.5 mm	63.50/60.30 x 1.60	
9611819873	1.4404 (316L)	76.1 mm	76.10/72.90 x 1.60	
9611819874	1.4404 (316L)	101.6 mm	101.60/97.60 x 2.00	

PPL prices per meter are updated monthly.
 H3 execution = Inside surface texture (Ra μm) including welded area ≤ 0.8 (EHEDG certified).
 Please contact your Alfa Laval person for further information.

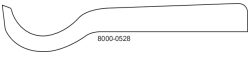

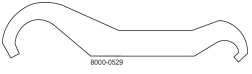
Installation accessories

Ordering leaflet	
Tools for Tubing Tools	192
Tube Holders DIN EN 10357-A DIN	194
Tube Holders ISO EN 10357-D ISO	195
Tube Holders Tri-Clover A24-E24	197
Tube Support Systems End Caps	198
Tube Support Systems Parts	199

ALSIS Code: 5086

Item no.	Material	Model	Size	Dimension (mm)		
				A	For nut diam.	
Cutting device DIN						
9611981080	1.4404 (316L)	Cutting device	DN15			
9611981081	1.4404 (316L)	Cutting device	DN20			
9611981082	1.4404 (316L)	Cutting device	DN25			
9611981083	1.4404 (316L)	Cutting device	DN32			
9611981084	1.4301 (304)	Cutting device	DN40			
9611981085	1.4404 (316L)	Cutting device	DN50			
9611981086	1.4301 (304)	Cutting device	DN65			
9611981087	1.4404 (316L)	Cutting device	DN80			
9611981089	1.4404 (316L)	Cutting device	DN100			
Cutting device ISO						
9611981070	1.4404 (316L)	Cutting device	25.0 mm			
9611981071	1.4301 (304)	Cutting device	38.0 mm			
9611981072	1.4404 (316L)	Cutting device	51.0 mm			
9611981073	1.4301 (304)	Cutting device	63.5 mm			
9611981074	1.4404 (316L)	Cutting device	76.1 mm			
9611981075	1.4301 (304)	Cutting device	101.6 mm			
For DIN nut						
9611980124	1.4301 (304)	Spanner	DN80		120.00-125.00	
Hexagon						
9611980111	1.4301 (304)	Spanner	25.0 mm	47.00		
9611980112	1.4301 (304)	Spanner	38.0 mm	62.00		
9611980113	1.4301 (304)	Spanner	51.0 mm	77.00		
9611980115	1.4301 (304)	Spanner	76.1 mm	108.00		
Round IDF						
9611980117	1.4301 (304)	Spanner	25.0 mm		45.00-50.00	
9611980118	1.4301 (304)	Spanner	38.0 mm		58.00-62.00	
9611980119	1.4301 (304)	Spanner	51.0 mm		68.00-75.00	
9611980120	1.4301 (304)	Spanner	63.5 mm		80.00-90.00	
9611980121	1.4301 (304)	Spanner	76.1 mm		110.00-115.00	
9611980126	1.4301 (304)	Spanner	101.6 mm		135.00-145.00	
Round ISO						
9611980125	1.4301 (304)	Spanner	101.6 mm		155.00-165.00	
9611980127	1.4301 (304)	Spanner	101.6 mm			
Round SMS						
9611980123	1.4301 (304)	Spanner	63.5 mm		95.00-100.00	

ALSIS Code: 5086

Item no.	Material	Model	Size	Dimension (mm)		
				A	For nut diam.	
Round universal						
3131709351	1.4301 (304)	Spanner	25-76.2 mm			
Type C for DIN nut						
9611901027	1.4301 (304)	Spanner	DN10		35.00-60.00	
9611901028	1.4301 (304)	Spanner	DN25		60.00-90.00	
9611901029	1.4301 (304)	Spanner	DN50		90.00-155.00	
9611901030	1.4301 (304)	Spanner	DN125		155.00-230.00	
Universal ISO/DIN						
69696	1.4301 (304)	Spanner	25-76 mm			

Tube Holders DIN EN 10357-A DIN

Installation accessories

ALSIS Code: 5082
Standard: DIN EN 10357-A

Material: 1.4301 (304)
Finish: SB (ID=0.8/OD=1.0)

Item no.	Size	Dimension (mm)					Bolt	
		A	B	C	D	E		
No shaft								
9611981152	DN10	51.00	16.00	12.00	36.00	2		
9611981162	DN15	57.00	22.00	18.00	42.00	2		
9611981172	DN20	61.00	28.00	22.00	46.00	2		
9611981182	DN25	67.00	34.00	28.00	52.00	3		
9611981202	DN40	79.00	46.00	40.00	64.00	3		
9611981212	DN50	91.00	58.00	52.00	76.00	3		
9611981222	DN65	109.00	76.00	70.00	94.00	3		
9611981232	DN80	124.00	91.00	85.00	109.00	3		
9611981242	DN100	143.00	110.00	104.00	128.00	3		
9611981252	DN125	168.00	135.00	129.00	153.00	3		
9611981262	DN150	193.00	160.00	154.00	178.00	3		
Short shaft tight								
9612411001	DN10	62.00	13.00	57.00		8.00		
9612411002	DN15	68.00	19.00	60.00		8.00		
9612411003	DN20	72.00	23.00	90.00		21.30		
9612411004	DN25	80.00	29.00	90.00		21.30		
9612411005	DN32	88.00	35.00	90.00		21.30		
9612411006	DN40	94.00	41.00	90.00		21.30		
9612411007	DN50	107.00	53.00	90.00		21.30		
9612411008	DN65	123.00	70.00	90.00		21.30		
9612411009	DN80	137.00	85.00	90.00		21.30		
9612411010	DN100	157.00	104.00	90.00		21.30		
9612411011	DN125	182.00	129.00	115.00		21.30		
9612411012	DN150	207.00	154.00	125.00		21.30		
With shaft								
9611980700	DN10		62.50	12.00	8.00			
9611980710	DN15		65.50	18.00	8.00			
9611980720	DN20		71.50	28.00	10.00			
9611980740	DN40		77.50	40.00	10.00			
9611980750	DN50		83.50	52.00	12.00			
9611980760	DN65		92.00	70.00	12.00			
9611980780	DN80		100.00	85.00	12.00			
9611980790	DN100		109.50	104.00	12.00			
9611980800	DN125		140.50	129.00	16.00			
9611980810	DN150		179.50	154.00	16.00			
9611981132	DN20		68.50	22.00	8.00			

Item no.	Size	Dimension (mm)				
		mm	A	B	C	
Long shaft tight						
9612411113	25.0 mm	78.00	25.40	150.00	21.30	
9612411114	38.0 mm	91.00	38.10	150.00	21.30	
9612411115	51.0 mm	104.00	51.00	150.00	21.30	
9612411116	63.5 mm	116.00	63.30	150.00	21.30	
9612411117	76.1 mm	129.00	76.20	150.00	21.30	
9612411118	101.6 mm	155.00	101.60	150.00	21.30	
No shaft						
9612483202	38.0 mm	62.00	21.40			
9612483204	63.5 mm	87.60	34.20			
9612483205	76.1 mm	100.00	40.50			
Short shaft tight						
9612411101	25.0 mm	78.00	24.00	90.00	21.30	
9612411104	63.5 mm	116.00	63.50	90.00	21.30	
9612411105	76.1 mm	1290.00	76.20	90.00	21.30	
9612411106	101.6 mm	155.00	101.60	90.00	21.30	
Square mount						
9611850530	25.0 mm	40.50	25.00	12.70		
9611850531	38.0 mm	40.50	35.00	19.30		
9611850532	51.0 mm	40.50	35.00	25.60		
9611850533	63.5 mm	40.50	35.00	32.00		
9611850534	76.1 mm	40.50	35.00	38.40		
9611850535	101.6 mm	40.50	35.00	51.20		

ALSIS Code: 5082
Standard: ISO 2037

Material: 1.4301 (304)

Item no.	Size	Dimension (mm)				
	mm	A	B	C	E	
Tight short shaft						
9612411102	38.0 mm	91.00	38.10	90.00	21.30	
9612411103	51.0 mm	104.00	51.00	90.00	21.30	
Weld attachment						
9611850250	25.0 mm	49.00	34.90			
9611850251	38.0 mm	62.00	41.40			
9611850252	51.0 mm	75.00	47.90			
9611850253	63.5 mm	87.60	54.20			
9611850254	76.1 mm	100.00	60.50			
9611850255	101.6 mm	125.60	73.40			
Without welding attachment						
9612483201	25.0 mm	49.00	14.90			
9612483203	51.0 mm	75.00	27.90			
9612483206	101.6 mm	125.60	53.40			

AL SIS Code: 5082
 Standard: Hygienic

Model: Tube Holders
 Design: D24FCF

Item no.	Material	Size	
Bolted			
9636000781	304/PVC	8"	
9636000783	304/PVC	12"	
9636000780	304/PVC	5"	
9636000782	304/PVC	10"	
Weld ends			
88122672	304/PVC	1.5"	
88122673	304/PVC	2"	
88122674	304/PVC	2.5"	
88122675	304/PVC	3"	
88122676	304/PVC	4"	
88123701	304/PVC	1"	
88132931	304/PVC	6"	
88139737	304/PVC	0.5"	
88139738	304/PVC	0.75"	

ALSIS Code: 5086
Standard: ISO 2037

Item no.	Material	Size	Dimension (mm)			
			A	B	C	
DIN						
9611901011	1.4301 (304)	DN25	28.00	25.00	11.00	
9611901013	1.4301 (304)	DN40	40.00	37.00	14.00	
9611901014	1.4301 (304)	DN50	52.00	49.00	17.00	
9611901015	1.4301 (304)	DN65	70.00	66.00	22.00	
9611901016	1.4301 (304)	DN80	85.00	81.00	24.00	
9611901017	1.4301 (304)	DN100	104.00	100.00	28.00	
9611901018	1.4301 (304)	DN125	129.00	125.00	33.00	
9611901019	1.4301 (304)	DN150	154.00	150.00	38.00	
9611901020	1.4301 (304)	DN200	204.00	200.00	47.00	
9611901021	1.4301 (304)	DN250	254.00	250.00	50.00	
ISO						
9612446401	1.4404 (316L)	25.0 mm	25.00	21.80	9.00	
9612446402	1.4404 (316L)	38.0 mm	38.00	34.80	10.00	
9612446403	1.4404 (316L)	51.0 mm	51.00	47.80	12.00	
9612446404	1.4404 (316L)	63.5 mm	63.50	60.30	14.00	
9612446405	1.4404 (316L)	76.1 mm	76.00	72.00	17.00	
9612446406	1.4404 (316L)	101.6 mm	101.60	97.60	26.00	

ALSIS Code: 5084

Item no.	Material	Size	Dimension (mm)					
			mm	A	B	C	D	
								Floor plate
9611850660	304	150.0 mm	150.00	40.00				
								Wall plate
9611880370	1.4301 (304)	60.0 mm	60.00	120.00	80.00	6.00	13.50	

This page is intentionally left blank

Other fittings

Ordering leaflet	
Other Connections H-Line	202

Other Connections H-Line

Other fittings

ALSIS Code: 5053, 5065

Standard: H-line
Finish: #7 (ID=32/OD=32µin)

Item no.	Material	Connection type	Model	Size		
				Inch		
					H40	
88133583	Buna (U)	Seal	Gasket	2"		
88136333	Buna (U)	Seal	Gasket	4"		
88138865	Buna (U)	Seal	Gasket	3"		
88143695	Buna (U)	Seal	Gasket	2.5"		
801000069	FPM	Seal	Gasket	4"		
801000068	FPM	Seal	Gasket	3"		
801000064	FPM	Seal	Gasket	1"		
801000066	FPM	Seal	Gasket	2"		
801000065	FPM	Seal	Gasket	1.5"		
9635117116	Silicone (Q)	Seal	Gasket	4"		
88117112	Silicone (Q)	Seal	Gasket	1.5"		
88117113	Silicone (Q)	Seal	Gasket	2"		
88117114	Silicone (Q)	Seal	Gasket	2.5"		
88117115	Silicone (Q)	Seal	Gasket	3"		
						H-14W
9611342140	304	TriClamp and Weld	Ferrule short male	1.5"		
9611342141	304	TriClamp and Weld	Ferrule short male	2"		
9611342142	304	TriClamp and Weld	Ferrule short male	2.5"		
9611342144	304	TriClamp and Weld	Ferrule short male	4"		
9611342150	316L	TriClamp and Weld	Ferrule short male	1.5"		
9611342151	316L	TriClamp and Weld	Ferrule short male	2"		
9611342152	316L	TriClamp and Weld	Ferrule short male	2.5"		
9611342153	316L	TriClamp and Weld	Ferrule short male	3"		
9611342154	316L	TriClamp and Weld	Ferrule short male	4"		
88243040	316L	TriClamp and Weld	Ferrule short male	1"		

Item no.	Material	Connection type	Model	Size	
				Inch	
H-15W					
9611342040	304	TriClamp and Weld	Ferrule short female	1.5"	
9611342041	304	TriClamp and Weld	Ferrule short female	2"	
9611342043	304	TriClamp and Weld	Ferrule short female	3"	
9611342044	304	TriClamp and Weld	Ferrule short female	4"	
9611342050	316L	TriClamp and Weld	Ferrule short female	1.5"	
9611342051	316L	TriClamp and Weld	Ferrule short female	2"	
9611342052	316L	TriClamp and Weld	Ferrule short female	2.5"	
9611342053	316L	TriClamp and Weld	Ferrule short female	3"	
9611342054	316L	TriClamp and Weld	Ferrule short female	4"	
88243031	316L	TriClamp and Weld	Ferrule short female	1"	
H-16A-14 male					
9611341983	304	Weld ends	End cap	3"	
9611341994	316L	Weld ends	End cap	4"	
9611341990	316L	Weld ends	End cap	1.5"	
9611341991	316L	Weld ends	End cap	2"	
9611341992	316L	Weld ends	End cap	2.5"	
9611341993	316L	Weld ends	End cap	3"	

This page is intentionally left blank

UltraPure fittings

Ordering leaflet

Tri-Clover BPE Adapters	206
Tri-Clover BPE Bends 45	208
Tri-Clover BPE Bends 88	210
Tri-Clover BPE Bends 90	211
Tri-Clover BPE Bends 92	213
Tri-Clover BPE Clamp Rings	214
Tri-Clover BPE Crosses	216
Tri-Clover BPE End Caps	217
Tri-Clover BPE Ferrules	218
Tri-Clover BPE Hose Adapters	220
Tri-Clover BPE Instrument Tees	221
Tri-Clover BPE Reducers Concentric	222
Tri-Clover BPE Reducers Eccentric	226
Tri-Clover BPE Reducing Tees	230
Tri-Clover BPE Reducing Tees Short	234
Tri-Clover BPE Tees Equal	237
Tri-Clover BPE Tees Short	239
Tri-Clover BPE Tees Short One Side	240
Tri-Clover BPE Use-Point	241

Item no.	Finish	Size		Dimension (Inch)			
		Inch	Inch	A	B		
21MP							
210537	SF1(PL) (ID=20/OD=32µin)	0.5"	0.5"	2.00	0.78		
210545	SF1(PL) (ID=20/OD=32µin)	0.5"	0.25"	2.00	0.59		
210551	SF1(PL) (ID=20/OD=32µin)	0.5"	0.75"	2.00	0.79		
210577	SF1(PL) (ID=20/OD=32µin)	0.5"	0.125"	2.00	0.40		
210582	SF1(PL) (ID=20/OD=32µin)	0.5"	0.375"	2.00	0.60		
210538	SF1(PL) (ID=20/OD=32µin)	0.75"	0.5"	2.00	0.78		
210542	SF1(PL) (ID=20/OD=32µin)	0.75"	0.75"	2.00	0.79		
210592	SF1(PL) (ID=20/OD=32µin)	0.75"	0.25"	2.00	0.59		
210548	SF1(PL) (ID=20/OD=32µin)	0.75"	0.375"	2.00	0.60		
211124	SF1(PL) (ID=20/OD=32µin)	1"	0.5"	2.19	0.62		
219125	SF1(PL) (ID=20/OD=32µin)	1"	1"	2.25	0.69		
219126	SF1(PL) (ID=20/OD=32µin)	1.5"	1.5"	2.44	0.72		
219131	SF1(PL) (ID=20/OD=32µin)	2"	2"	2.66	0.75		
211549	SF1(PL) (ID=20/OD=32µin)	2.5"	2.5"	3.28	1.38		
210591	SF1(PL) (ID=20/OD=32µin)	3"	3"	3.50	1.20		
211550	SF1(PL) (ID=20/OD=32µin)	4"	4"	3.81	1.30		
210581	SF4(PM) (ID=15EP/OD=32µin)	0.5"	0.25"	2.00	0.59		
210586	SF4(PM) (ID=15EP/OD=32µin)	0.5"	0.5"	2.00	0.78		
210584	SF4(PM) (ID=15EP/OD=32µin)	0.5"	0.375"	2.00	0.60		
210588	SF4(PM) (ID=15EP/OD=32µin)	0.5"	0.75"	2.00	0.79		
210579	SF4(PM) (ID=15EP/OD=32µin)	0.5"	0.125"	2.00	0.40		
210593	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.5"	2.00	0.78		
210601	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.75"	2.00	0.79		
210738	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.375"	2.00	0.60		
210993	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.25"	2.00	0.59		
211551	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.125"	2.00	0.40		
210840	SF4(PM) (ID=15EP/OD=32µin)	1"	1"	2.25	0.69		
210841	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1.5"	2.44	0.72		
211552	SF4(PM) (ID=15EP/OD=32µin)	2"	2"	2.66	0.75		
211553	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2.5"	3.28	1.38		
211554	SF4(PM) (ID=15EP/OD=32µin)	3"	3"	3.50	1.20		
22MP							
210550	SF1(PL) (ID=20/OD=32µin)	0.5"	0.5"	1.50			
210367	SF1(PL) (ID=20/OD=32µin)	0.5"	0.25"	1.50			
210420	SF1(PL) (ID=20/OD=32µin)	0.5"	0.375"	1.50			
210686	SF1(PL) (ID=20/OD=32µin)	0.5"	0.125"	1.25			
210543	SF1(PL) (ID=20/OD=32µin)	0.5"	0.75"	1.62			
210536	SF1(PL) (ID=20/OD=32µin)	0.75"	0.75"	1.62			
210557	SF1(PL) (ID=20/OD=32µin)	0.75"	0.25"	1.50			
210563	SF1(PL) (ID=20/OD=32µin)	0.75"	0.5"	1.50			
210554	SF1(PL) (ID=20/OD=32µin)	0.75"	0.125"	1.25			
210560	SF1(PL) (ID=20/OD=32µin)	0.75"	0.375"	1.50			
219129	SF1(PL) (ID=20/OD=32µin)	1"	1"	1.63			
9636000589	SF1(PL) (ID=20/OD=32µin)	1"	0.5"	1.63			
210460	SF1(PL) (ID=20/OD=32µin)	1.5"	1.5"	2.25			
210459	SF1(PL) (ID=20/OD=32µin)	2"	2"	2.34			
314384	SF1(PL) (ID=20/OD=32µin)	2"	1"	1.69			

Item no.	Finish	Size		Dimension (Inch)		
		Inch	Inch	A	B	
22MP						
211558	SF1(PL) (ID=20/OD=32µin)	2.5"	2.5"	2.09		
210915	SF1(PL) (ID=20/OD=32µin)	3"	3"	2.19		
211560	SF1(PL) (ID=20/OD=32µin)	4"	4"	2.66		
211562	SF4(PM) (ID=15EP/OD=32µin)	0.5"	0.375"	1.50		
210055	SF4(PM) (ID=15EP/OD=32µin)	0.5"	0.5"	1.50		
210878	SF4(PM) (ID=15EP/OD=32µin)	0.5"	0.25"	1.50		
211145	SF4(PM) (ID=15EP/OD=32µin)	0.5"	0.75"	1.62		
211559	SF4(PM) (ID=15EP/OD=32µin)	0.5"	0.125"	1.25		
210567	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.75"	1.62		
211144	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.5"	1.50		
211566	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.25"	1.50		
211564	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.125"	1.25		
211570	SF4(PM) (ID=15EP/OD=32µin)	1"	1"	1.63		
210897	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1.5"	2.25		
210769	SF4(PM) (ID=15EP/OD=32µin)	2"	2"	2.34		
211571	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2.5"	2.09		
211572	SF4(PM) (ID=15EP/OD=32µin)	3"	3"	2.19		

Tri-Clover BPE Bends 45

UltraPure fittings

ALSIS Code: 5016, 5017

Model: Bends 45
Standard: ASME BPE
Material: 316L

Item no.	Finish	Size		Dimension A		Dimension B		
		Inch	mm	Inch	mm	Inch	mm	
B2KMP								
9634003019	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	1.00	25.40			
9634003020	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00	1.00	25.40			
9634003021	SF1(PL) (ID=20/OD=32µin)	1"	39.50	1.13	28.60			
9634003022	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	1.44	36.50			
9634003023	SF1(PL) (ID=20/OD=32µin)	2"	50.80	1.75	44.50			
9634003024	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	2.06	52.40			
9634003025	SF1(PL) (ID=20/OD=32µin)	3"	76.20	2.38	60.30			
9634003026	SF1(PL) (ID=20/OD=32µin)	4"	101.60	3.13	79.40			
9634003028	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	1.00	25.40			
9634003029	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	1.00	25.40			
9634003030	SF4(PM) (ID=15EP/OD=32µin)	1"	39.50	1.13	28.60			
9634003031	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	1.44	36.50			
9634003032	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	1.75	44.50			
9634003033	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	2.06	52.40			
9634003034	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	2.38	60.30			
9634003035	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	3.13	79.40			
B2KMW								
9634002119	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	2.25	57.20	1.00	25.40	
9634002120	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00	2.25	57.20	1.00	25.40	
9634002121	SF1(PL) (ID=20/OD=32µin)	1"	39.50	2.25	57.20	1.10	28.60	
9634002122	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	2.50	63.50	1.40	36.50	
9634002123	SF1(PL) (ID=20/OD=32µin)	2"	50.80	3.00	76.20	1.80	44.50	
9634002124	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	3.38	85.70	2.10	52.40	
9634002125	SF1(PL) (ID=20/OD=32µin)	3"	76.20	3.63	92.10	2.30	60.30	
9634002126	SF1(PL) (ID=20/OD=32µin)	4"	101.60	4.50	114.30	3.10	79.40	
9634002128	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	2.25	57.20	1.00	25.40	
9634002129	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	2.25	57.20	1.00	25.40	
9634002130	SF4(PM) (ID=15EP/OD=32µin)	1"	39.50	2.25	57.20	1.10	28.60	
9634002131	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	2.50	63.50	1.40	36.50	
9634002132	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	3.00	76.20	1.80	44.50	
9634002133	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	3.38	85.70	2.10	52.40	
9634002134	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	3.63	92.10	2.30	60.30	
9634002135	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	4.50	114.30	3.10	79.40	
B2KS								
9634000419	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	2.25	57.20			
9634000420	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00	2.25	57.20			
9634000421	SF1(PL) (ID=20/OD=32µin)	1"	39.50	2.25	57.20			
9634000422	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	2.50	63.50			
9634000423	SF1(PL) (ID=20/OD=32µin)	2"	50.80	3.00	76.20			
9634000424	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	3.38	85.70			
9634000425	SF1(PL) (ID=20/OD=32µin)	3"	76.20	3.63	92.10			
9634000426	SF1(PL) (ID=20/OD=32µin)	4"	101.60	4.50	114.30			
9634000427	SF1(PL) (ID=20/OD=32µin)	6"	152.40	6.25	158.80			
9634000428	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	2.25	57.20			
9634000429	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	2.25	57.20			
9634000430	SF4(PM) (ID=15EP/OD=32µin)	1"	39.50	2.25	57.20			
9634000431	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	2.50	63.50			

Item no.	Finish	Size		Dimension A		Dimension B		
		Inch	mm	Inch	mm	Inch	mm	
B2KS								
9634000432	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	3.00	76.20			
9634000433	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	3.38	85.70			
9634000434	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	3.63	92.10			
9634000435	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	4.50	114.30			
9634000436	SF4(PM) (ID=15EP/OD=32µin)	6"	152.40	6.25	158.80			

Item no.	Finish	Size		Dimension A		Dimension B			
		Inch	mm	Inch	mm	Inch	mm		
B288CMP									
9634080392	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	1.657	42.10	1.602	40.70		
9634080394	SF1(PL) (ID=20/OD=32µin)	0.75"	19.05	1.654	42.00	1.598	40.60		
9634080396	SF1(PL) (ID=20/OD=32µin)	1"	25.40	2.035	51.70	1.965	49.90		
9634080398	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	2.791	70.90	2.697	68.50		
9634080400	SF1(PL) (ID=20/OD=32µin)	2"	50.80	3.551	90.20	3.429	87.10		
9634080404	SF1(PL) (ID=20/OD=32µin)	3"	76.20	5.067	128.70	4.894	124.30		
9634080395	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.05	1.654	42.00	1.598	40.60		
9634080397	SF4(PM) (ID=15EP/OD=32µin)	1"	25.40	2.035	51.70	1.965	49.90		
9634080399	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	2.791	70.90	2.697	68.50		
9634080401	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	3.551	90.20	3.429	87.10		
9634080405	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	5.067	128.70	4.894	124.30		
B288S									
9634080424	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	3.079	78.20	2.976	75.60		
9634080426	SF1(PL) (ID=20/OD=32µin)	0.75"	19.05	3.079	78.20	2.976	75.50		
9634080428	SF1(PL) (ID=20/OD=32µin)	1"	25.40	3.079	78.00	2.976	75.30		
9634080430	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	3.827	97.20	3.697	93.90		
9634080432	SF1(PL) (ID=20/OD=32µin)	2"	50.80	4.846	123.10	4.681	118.90		
9634080434	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	5.602	142.30	5.409	137.40		
9634080436	SF1(PL) (ID=20/OD=32µin)	3"	76.20	6.362	161.60	6.146	156.10		
9634080438	SF1(PL) (ID=20/OD=32µin)	4"	101.60	8.138	206.70	7.858	199.60		
9634080425	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	3.079	78.20	2.976	75.60		
9634080427	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.05	3.079	78.20	2.976	75.50		
9634080429	SF4(PM) (ID=15EP/OD=32µin)	1"	25.40	3.079	78.00	2.976	75.30		
9634080431	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	3.827	97.20	3.697	93.90		
9634080433	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	4.846	123.10	4.681	118.90		
9634080435	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	5.602	142.30	5.409	137.40		
9634080437	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	6.362	161.60	6.146	156.10		
9634080439	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	8.138	206.70	7.858	199.60		

Item no.	Finish	Size		Dimension A		Dimension B		
		Inch	mm	Inch	mm	Inch	mm	
B2CMP								
9634002819	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	1.63	41.30			
9634002820	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00	1.63	41.30			
9634002821	SF1(PL) (ID=20/OD=32µin)	1"	39.50	2.00	50.80			
9634002822	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	2.75	69.90			
9634002823	SF1(PL) (ID=20/OD=32µin)	2"	50.80	3.50	88.90			
9634002824	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	4.25	108.00			
9634002825	SF1(PL) (ID=20/OD=32µin)	3"	76.20	5.00	127.00			
9634002826	SF1(PL) (ID=20/OD=32µin)	4"	101.60	6.63	168.30			
9634002827	SF1(PL) (ID=20/OD=32µin)	6"	152.40	10.50	266.70			
9634002828	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	1.63	41.30			
9634002829	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	1.63	41.30			
9634002830	SF4(PM) (ID=15EP/OD=32µin)	1"	39.50	2.00	50.80			
9634002831	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	2.75	69.90			
9634002832	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	3.50	88.90			
9634002833	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	4.25	108.00			
9634002834	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	5.00	127.00			
9634002835	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	6.63	168.30			
9634002836	SF4(PM) (ID=15EP/OD=32µin)	6"	152.40	10.50	266.70			
B2CMW								
9634001919	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	3.00	76.20	1.63	41.30	
9634001920	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00	3.00	76.20	1.63	41.30	
9634001921	SF1(PL) (ID=20/OD=32µin)	1"	39.50	3.00	76.20	2.00	50.80	
9634001922	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	3.75	95.30	2.75	69.90	
9634001923	SF1(PL) (ID=20/OD=32µin)	2"	50.80	4.75	120.70	3.50	88.90	
9634001924	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	5.50	139.70	4.25	108.00	
9634001925	SF1(PL) (ID=20/OD=32µin)	3"	76.20	6.25	158.80	5.00	127.00	
9634001926	SF1(PL) (ID=20/OD=32µin)	4"	101.60	8.00	203.20	6.63	168.20	
9635000184	SF1(PL) (ID=20/OD=32µin)	6"	152.40	11.50	292.10	10.50	266.70	
9634001928	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	3.00	76.20	1.63	41.30	
9634001929	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	3.00	76.20	1.63	41.30	
9634001930	SF4(PM) (ID=15EP/OD=32µin)	1"	39.50	3.00	76.20	2.00	50.80	
9634001931	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	3.75	95.30	2.75	69.90	
9634001932	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	4.75	120.70	3.50	88.90	
9634001933	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	5.50	139.70	4.25	108.00	
9634001934	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	6.25	158.80	5.00	127.00	
9634001935	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	8.00	203.20	6.63	168.20	
9635000183	SF4(PM) (ID=15EP/OD=32µin)	6"	152.40	11.50	292.10	10.50	266.70	

Item no.	Finish	Size		Dimension A		Dimension B		
		Inch	mm	Inch	mm	Inch	mm	
B2S								
9634000219	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	3.00	76.20			
9634000220	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00	3.00	76.20			
9634000221	SF1(PL) (ID=20/OD=32µin)	1"	39.50	3.00	76.20			
9634000222	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	3.75	95.30			
9634000223	SF1(PL) (ID=20/OD=32µin)	2"	50.80	4.75	120.70			
9634000224	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	5.50	139.70			
9634000225	SF1(PL) (ID=20/OD=32µin)	3"	76.20	6.25	158.80			
9634000226	SF1(PL) (ID=20/OD=32µin)	4"	101.60	8.00	203.20			
9634000227	SF1(PL) (ID=20/OD=32µin)	6"	152.40	11.50	292.10			
9634000228	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	3.00	76.20			
9634000229	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	3.00	76.20			
9634000230	SF4(PM) (ID=15EP/OD=32µin)	1"	39.50	3.00	76.20			
9634000231	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	3.75	95.30			
9634000232	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	4.75	120.70			
9634000233	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	5.50	139.70			
9634000234	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	6.25	158.80			
9634000235	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	8.00	203.20			
9634000236	SF4(PM) (ID=15EP/OD=32µin)	6"	152.40	11.50	292.10			

Item no.	Finish	Size		Dimension A		Dimension B		
		Inch	mm	Inch	mm	Inch	mm	
B292CMP								
9634080411	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.05	1.583	40.20	1.638	41.60	
9634080412	SF1(PL) (ID=20/OD=32µin)	1"	25.40	1.949	49.50	2.016	51.20	
9634080414	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	2.681	68.10	2.776	70.50	
9634080415	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	2.681	68.10	2.776	70.50	
9634080416	SF1(PL) (ID=20/OD=32µin)	2"	50.80	3.413	86.70	3.531	89.70	
9634080417	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	3.413	86.70	3.531	89.70	
9634080418	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	4.146	105.30	4.291	109.00	
9634080420	SF1(PL) (ID=20/OD=32µin)	3"	76.20	4.878	123.90	5.051	128.30	
9634080421	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	4.878	123.90	5.051	128.30	
B292S								
9634080440	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	2.913	74.00	3.016	76.60	
9634080441	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	2.913	74.00	3.016	76.60	
9634080442	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00	2.913	73.00	3.016	76.50	
9634080443	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	2.913	73.00	3.016	76.50	
9634080444	SF1(PL) (ID=20/OD=32µin)	1"	25.40	2.913	74.00	3.016	76.60	
9634080445	SF4(PM) (ID=15EP/OD=32µin)	1"	25.40	2.913	74.00	3.016	76.60	
9634080446	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	3.646	92.60	3.776	95.90	
9634080447	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	3.646	92.60	3.776	95.90	
9634080448	SF1(PL) (ID=20/OD=32µin)	2"	50.80	4.618	117.30	4.783	121.50	
9634080449	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	4.618	117.30	4.783	121.50	
9634080450	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	5.350	135.90	5.543	140.80	
9634080451	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	5.350	135.90	5.543	140.80	
9634080452	SF1(PL) (ID=20/OD=32µin)	3"	76.20	6.083	154.50	6.299	160.00	
9634080453	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	6.083	154.50	6.299	160.00	
9634080454	SF1(PL) (ID=20/OD=32µin)	4"	101.60	7.791	197.90	8.067	204.90	
9634080455	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	7.791	197.90	8.067	204.90	

ALSIS Code: 5049

Item no.	Material	Size	Dimension (Inch)		
			A	B	
13MHM					
9613408801	304	0.5-0.75"	1.13		
212195	304	1-1.5"	2.13		
212196	304	2"	2.66		
212197	304	2.5"	3.19		
212198	304	3"	3.72		
212199	304	4"	4.83		
212211	304	5"	5.79		
210129	304	6"	6.69		
210290	304	8"	8.74		
13MHHS					
211290	304	0.5"	1.13		
13MHP					
211278	304	1.5"	2.05		
211279	304	2"	2.58		
211280	304	2.5"	3.11		
211281	304	3"	3.64		
211617	304	4"	4.74		
260234	304	6"	6.03		
9634085294	304	10"			
A13MHM					
211053	304	1-1.5"	2.13		
211054	304	2"	2.64		
211055	304	2.5"	3.19		
211056	304	3"	3.72		
211057	304	4"	4.83		
211058	304	6"	6.69		
A13MHP					
9615476401	304	0.5"	1.04		
9615265201	304	0.5-0.75"	1.04		
9615265301	304	1.5"	2.05		
9615265401	304	2"	2.58		
9615265501	304	2.5"	3.11		
9615265601	304	3"	3.64		
9615265701	304	4"	4.73		
9634048982	304	6"	6.63		

ALSIS Code: 5049

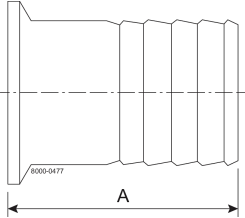
Item no.	Material	Size	Dimension (Inch)		
			A	B	
CR ALLEN					
9611311051	304	25-38 mm	2.30	3.36	
9611311052	304	51.0 mm	2.83	3.90	
9611311053	304	63.5 mm	4.43	3.21	
9611311054	304	76.1 mm	3.90	4.96	
9611311055	304	101.6 mm	5.00	6.06	
9611311056	304	114.3 mm	6.50	5.28	
9611311057	304	139.7 mm	7.80	6.30	
9611311058	304	168.3 mm	8.90	7.36	
9611311059	304	219.1 mm	11.04	9.35	

Item no.	Finish	Size		Dimension A			
		Inch	mm	Inch	mm		
B9MP							
8010002824	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	2.25	57.20		
8010002822	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00	2.38	60.30		
9634003421	SF1(PL) (ID=20/OD=32µin)	1"	39.50	2.63	66.70		
9634003422	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	2.88	73.00		
9634003423	SF1(PL) (ID=20/OD=32µin)	2"	50.80	3.38	85.70		
9634003424	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	3.63	92.10		
9634003425	SF1(PL) (ID=20/OD=32µin)	3"	76.20	3.88	98.40		
9634003426	SF1(PL) (ID=20/OD=32µin)	4"	101.60	4.75	120.70		
8010002825	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	2.25	57.20		
8010002823	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	2.38	60.30		
9634003430	SF4(PM) (ID=15EP/OD=32µin)	1"	39.50	2.63	66.70		
9634003431	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	2.88	73.00		
9634003432	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	3.38	85.70		
9634003435	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	4.75	120.70		
B9WWWW							
9634000819	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	1.88	47.60		
9634000820	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00	2.00	50.80		
9634000821	SF1(PL) (ID=20/OD=32µin)	1"	39.50	2.13	54.00		
9634000822	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	2.38	60.30		
9634000823	SF1(PL) (ID=20/OD=32µin)	2"	50.80	2.88	73.00		
9634000824	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	3.13	79.40		
9634000825	SF1(PL) (ID=20/OD=32µin)	3"	76.20	3.38	85.70		
9634000826	SF1(PL) (ID=20/OD=32µin)	4"	101.60	4.13	104.80		
9634000828	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	1.88	47.60		
9634000829	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	2.00	50.80		
9634000830	SF4(PM) (ID=15EP/OD=32µin)	1"	39.50	2.13	54.00		
9634000831	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	2.38	60.30		
9634000832	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	2.88	73.00		
9634000833	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	3.13	79.40		
9634000834	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	3.38	85.70		
9634000835	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	4.13	104.80		

Item no.	Finish	Size		Dimension A		Dimension B			
		Inch	mm	Inch	mm	Inch	mm		
16AMP									
219123	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	0.19	4.80	0.98	24.90		
210273	SF1(PL) (ID=20/OD=32µin)	1"	38.10	0.25	6.40	1.98	50.40		
9614003601	SF1(PL) (ID=20/OD=32µin)	1"	25.40	0.25	6.35	1.34	34.00		
210831	SF1(PL) (ID=20/OD=32µin)	2"	50.80	0.25	6.40	2.52	63.90		
219124	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	0.25	6.40	3.05	77.40		
210770	SF1(PL) (ID=20/OD=32µin)	3"	76.20	0.25	6.40	3.58	90.90		
210783	SF1(PL) (ID=20/OD=32µin)	4"	101.60	0.25	6.40	4.69	119.10		
260214	SF1(PL) (ID=20/OD=32µin)	6"	152.40	0.44	11.10	6.58	167.10		
210009	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	0.19	4.80	0.98	24.90		
210162	SF4(PM) (ID=15EP/OD=32µin)	1"	38.10	0.25	6.40	1.98	50.40		
9614003602	SF4(PM) (ID=15EP/OD=32µin)	1"	25.40	0.25	6.35	1.34	34.00		
210891	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	0.25	6.40	2.52	63.90		
210349	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	0.25	6.40	3.05	77.40		
210894	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	0.25	6.40	3.58	90.90		
210121	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	0.25	6.40	4.69	119.10		
260213	SF4(PM) (ID=15EP/OD=32µin)	6"	152.40	0.44	11.10	6.58	167.10		
B16W									
241546	SF1(PL) (ID=20/OD=32µin)	1"	25.40	1.88	47.60				
241678	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	2.06	52.40				
241681	SF1(PL) (ID=20/OD=32µin)	2"	50.80	2.75	69.90				
242104	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	3.00	76.20				
241683	SF1(PL) (ID=20/OD=32µin)	3"	76.20	3.25	82.60				
241221	SF1(PL) (ID=20/OD=32µin)	4"	101.60	4.00	101.60				
9635000195	SF1(PL) (ID=20/OD=32µin)	6"	152.40	4.25	108.00				
247020	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	1.81	46.00				
247024	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	1.81	46.00				
242099	SF4(PM) (ID=15EP/OD=32µin)	1"	25.40	1.88	47.60				
242100	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	2.06	52.40				
242101	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	2.75	69.90				
242102	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	3.00	76.20				
242105	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	3.25	82.60				
242103	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	4.00	101.60				

Item no.	Finish	Size	Dimension A		Dimension B			
			Inch	mm	Inch	mm		
14WMPS								
610264	SF1(PL) (ID=20/OD=32µin)	0.5"	0.50	12.70	0.98	24.90		
610269	SF1(PL) (ID=20/OD=32µin)	0.75"	0.50	12.70	0.98	24.90		
610274	SF1(PL) (ID=20/OD=32µin)	1"	0.50	12.70	1.98	50.40		
610276	SF1(PL) (ID=20/OD=32µin)	1.5"	0.50	12.70	1.98	50.40		
610790	SF1(PL) (ID=20/OD=32µin)	2"	0.50	12.70	2.52	63.90		
610278	SF1(PL) (ID=20/OD=32µin)	2.5"	0.50	12.70	3.05	77.40		
610280	SF1(PL) (ID=20/OD=32µin)	3"	0.50	12.70	3.58	90.90		
610282	SF1(PL) (ID=20/OD=32µin)	4"	0.63	15.90	4.69	119.10		
660028	SF1(PL) (ID=20/OD=32µin)	6"	1.50	38.10	6.58	167.10		
610265	SF4(PM) (ID=15EP/OD=32µin)	0.5"	0.50	12.70	0.98	24.90		
610270	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.50	12.70	0.98	24.90		
610275	SF4(PM) (ID=15EP/OD=32µin)	1"	0.50	12.70	1.98	50.40		
610812	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.50	12.70	1.98	50.40		
610277	SF4(PM) (ID=15EP/OD=32µin)	2"	0.50	12.70	2.52	63.90		
610279	SF4(PM) (ID=15EP/OD=32µin)	2.5"	0.50	12.70	3.05	77.40		
610281	SF4(PM) (ID=15EP/OD=32µin)	3"	0.50	12.70	3.58	90.90		
610283	SF4(PM) (ID=15EP/OD=32µin)	4"	0.63	15.90	4.69	119.10		
9615393812	SF4(PM) (ID=15EP/OD=32µin)	6"	1.50	19.05	6.58	166.68		
BS14AM								
9634004801	SF1(PL) (ID=20/OD=32µin)	0.5"	1.75	44.50	0.98	25.00		
9634004802	SF1(PL) (ID=20/OD=32µin)	0.75"	1.75	44.50	0.98	25.00		
9634004803	SF1(PL) (ID=20/OD=32µin)	1"	1.75	44.50	1.98	50.40		
9634004804	SF1(PL) (ID=20/OD=32µin)	1.5"	1.75	44.50	1.98	50.40		
9634004805	SF1(PL) (ID=20/OD=32µin)	2"	2.25	57.20	2.52	63.90		
9634004806	SF1(PL) (ID=20/OD=32µin)	2.5"	2.25	57.20	3.05	77.40		
9634004807	SF1(PL) (ID=20/OD=32µin)	3"	2.25	57.20	3.58	90.90		
9634004808	SF1(PL) (ID=20/OD=32µin)	4"	2.25	57.20	4.68	118.90		
9634004809	SF1(PL) (ID=20/OD=32µin)	6"	3.00	76.20	6.57	166.90		
9634004810	SF4(PM) (ID=15EP/OD=32µin)	0.5"	1.75	44.50	0.98	25.00		
9634004811	SF4(PM) (ID=15EP/OD=32µin)	0.75"	1.75	44.50	0.98	25.00		
9634004812	SF4(PM) (ID=15EP/OD=32µin)	1"	1.75	44.50	1.98	50.40		
9634004813	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1.75	44.50	1.98	50.40		
9634004814	SF4(PM) (ID=15EP/OD=32µin)	2"	2.25	57.20	2.52	63.90		
9634004815	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2.25	57.20	3.05	77.40		
9634004816	SF4(PM) (ID=15EP/OD=32µin)	3"	2.25	57.20	3.58	90.90		
9634004817	SF4(PM) (ID=15EP/OD=32µin)	4"	2.25	57.20	4.68	118.90		
9634004818	SF4(PM) (ID=15EP/OD=32µin)	6"	3.00	76.20	6.57	166.90		

Item no.	Finish	Size	Dimension A		Dimension B		
			Inch	mm	Inch	mm	
L14AM							
9615323102	SF1(PL) (ID=20/OD=32µin)	0.5"	1.13	28.70	0.98	25.00	
9615323101	SF1(PL) (ID=20/OD=32µin)	0.75"	1.13	28.70	0.98	25.00	
9615266801	SF1(PL) (ID=20/OD=32µin)	1"	1.13	28.70	1.98	50.40	
9614000602	SF1(PL) (ID=20/OD=32µin)	1"	1.13	28.70	1.34	34.00	
9615266802	SF1(PL) (ID=20/OD=32µin)	1.5"	1.13	28.70	1.98	50.40	
9615266803	SF1(PL) (ID=20/OD=32µin)	2"	1.13	28.70	2.52	63.90	
9615266804	SF1(PL) (ID=20/OD=32µin)	2.5"	1.13	28.70	3.05	77.40	
9615266805	SF1(PL) (ID=20/OD=32µin)	3"	1.13	28.70	3.58	90.90	
9615266806	SF1(PL) (ID=20/OD=32µin)	4"	1.13	28.70	4.68	118.90	
9615266807	SF1(PL) (ID=20/OD=32µin)	6"	1.13	28.70	6.57	166.90	
9615323104	SF4(PM) (ID=15EP/OD=32µin)	0.5"	1.13	28.70	0.98	25.00	
9615323103	SF4(PM) (ID=15EP/OD=32µin)	0.75"	1.13	28.70	0.98	25.00	
9615266808	SF4(PM) (ID=15EP/OD=32µin)	1"	1.13	28.70	1.98	50.40	
9615266809	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1.13	28.70	1.98	50.40	
9615266810	SF4(PM) (ID=15EP/OD=32µin)	2"	1.13	28.70	2.52	63.90	
9615266811	SF4(PM) (ID=15EP/OD=32µin)	2.5"	1.13	28.70	3.05	77.40	
9615266812	SF4(PM) (ID=15EP/OD=32µin)	3"	1.13	28.70	3.58	90.90	
9615266813	SF4(PM) (ID=15EP/OD=32µin)	4"	1.13	28.70	4.68	118.90	
9615266814	SF4(PM) (ID=15EP/OD=32µin)	6"	1.50	38.10	6.57	166.90	

Item no.	Finish	Size		Dimension A		
		Inch	mm	Inch	mm	
14MPHR						
210493	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70 x 6.40	1.50	38.10	
210494	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	1.50	38.10	
210495	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70 x 12.70	1.50	38.10	
210490	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	1.50	38.10	
210496	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	1.50	38.10	
210539	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00 x 19.00	1.50	38.10	
210541	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00 x 12.70	1.50	38.10	
210603	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00 x 6.40	1.50	38.10	
210604	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00 x 9.50	1.50	38.10	
210924	SF1(PL) (ID=20/OD=32µin)	1"	25.40 x 25.40	1.69	42.90	
210005	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	1.69	42.90	
210369	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10 x 38.10	1.69	42.90	
210746	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	1.69	42.90	
210890	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	1.69	42.90	
210373	SF1(PL) (ID=20/OD=32µin)	2"	63.50 x 63.50	2.31	58.70	
210386	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50 x 63.50	2.00	50.80	
210390	SF1(PL) (ID=20/OD=32µin)	3"	76.20	3.11	79.00	
211618	SF1(PL) (ID=20/OD=32µin)	4"	101.60 x 101.60	3.41	86.50	
210321	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70 x 12.70	1.50	38.10	
210667	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	1.50	38.10	
210954	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70 x 6.40	1.50	38.10	
210019	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00 x 19.00	1.50	38.10	
211135	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	1.50	38.10	
210355	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	1.50	38.10	
210365	SF4(PM) (ID=15EP/OD=32µin)	1"	25.40 x 25.40	1.69	42.90	
211174	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	1.69	42.90	
210370	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10 x 38.10	1.69	42.90	
9634600033	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	1.69	42.90	
210382	SF4(PM) (ID=15EP/OD=32µin)	2"	63.50 x 63.50	2.31	58.70	
210387	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50 x 63.50	2.00	50.80	
210391	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	3.11	79.00	

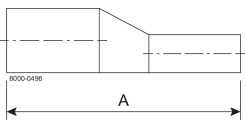
Item no.	Finish	Size		Dimension Inch		
		Inch	Inch	A	B	
B7IMPS						
211171	SF1(PL) (ID=20/OD=32µin)	0.5"	1.5"	3.00	0.88	
211543	SF1(PL) (ID=20/OD=32µin)	0.5"	2"	3.25	1.00	
211170	SF1(PL) (ID=20/OD=32µin)	0.75"	1.5"	3.00	1.00	
211545	SF1(PL) (ID=20/OD=32µin)	0.75"	2"	3.25	1.13	
211173	SF1(PL) (ID=20/OD=32µin)	1"	1.5"	3.00	1.13	
211547	SF1(PL) (ID=20/OD=32µin)	1"	2"	3.25	1.25	
211172	SF1(PL) (ID=20/OD=32µin)	1.5"	2"	3.25	1.50	
211169	SF4(PM) (ID=15EP/OD=32µin)	0.5"	1.5"	3.00	0.88	
211544	SF4(PM) (ID=15EP/OD=32µin)	0.5"	2"	3.25	1.00	
211377	SF4(PM) (ID=15EP/OD=32µin)	0.75"	1.5"	3.00	1.00	
211546	SF4(PM) (ID=15EP/OD=32µin)	0.75"	2"	3.25	1.13	
211158	SF4(PM) (ID=15EP/OD=32µin)	1"	1.5"	3.00	1.13	
211616	SF4(PM) (ID=15EP/OD=32µin)	1"	2"	3.25	1.25	
211187	SF4(PM) (ID=15EP/OD=32µin)	1.5"	2"	3.25	1.50	

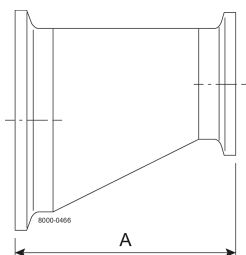
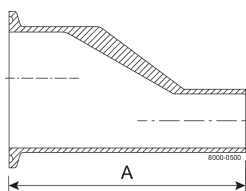
Item no.	Finish	Size			Dimension A		
		Inch	Inch	mm	Inch	mm	
							B31
9634001701	SF1(PL) (ID=20/OD=32µin)	0.75"	0.5"	19.00 x 12.70	4.00	101.60	
9634001702	SF1(PL) (ID=20/OD=32µin)	1"	0.5"	25.40 x 12.70	4.50	114.30	
9634001703	SF1(PL) (ID=20/OD=32µin)	1"	0.75"	25.40 x 19.00	4.00	101.60	
9634001704	SF1(PL) (ID=20/OD=32µin)	1.5"	0.5"	38.10 x 12.70	5.50	139.70	
9634001705	SF1(PL) (ID=20/OD=32µin)	1.5"	0.75"	38.10 x 19.00	5.00	127.00	
9634001706	SF1(PL) (ID=20/OD=32µin)	1.5"	1"	38.10 x 25.40	5.00	127.00	
9634001708	SF1(PL) (ID=20/OD=32µin)	2"	0.75"	50.80 x 19.00	7.25	184.20	
9634001709	SF1(PL) (ID=20/OD=32µin)	2"	1"	50.80 x 25.40	7.25	184.20	
9634001710	SF1(PL) (ID=20/OD=32µin)	2"	1.5"	50.80 x 38.10	5.25	133.40	
9634001715	SF1(PL) (ID=20/OD=32µin)	2.5"	2"	63.50 x 50.80	5.50	139.70	
9634001714	SF1(PL) (ID=20/OD=32µin)	2.5"	1.5"	63.50 x 38.10	7.50	184.20	
9634001717	SF1(PL) (ID=20/OD=32µin)	3"	1.5"	76.20 x 50.80	9.25	235.00	
9634001718	SF1(PL) (ID=20/OD=32µin)	3"	2"	76.20 x 50.80	7.50	190.50	
9634001719	SF1(PL) (ID=20/OD=32µin)	3"	2.5"	76.20 x 63.50	5.50	139.70	
9634001722	SF1(PL) (ID=20/OD=32µin)	4"	2"	101.60 x 50.80	11.75	298.40	
9634001724	SF1(PL) (ID=20/OD=32µin)	4"	3"	101.60 x 76.20	7.75	196.90	
9634001723	SF1(PL) (ID=20/OD=32µin)	4"	2.5"	101.60 x 63.50	9.75	247.70	
9634001725	SF1(PL) (ID=20/OD=32µin)	6"	4"	152.40 x 101.60	10.00	254.00	
9634050058	SF1(PL) (ID=20/OD=32µin)	6"	3"	152.40 x 76.20	10.00	254.00	
9634001726	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.5"	19.00 x 12.70	4.00	101.60	
9634001727	SF4(PM) (ID=15EP/OD=32µin)	1"	0.5"	25.40 x 12.70	4.50	114.30	
9634001728	SF4(PM) (ID=15EP/OD=32µin)	1"	0.75"	25.40 x 19.00	4.00	101.60	
9634001730	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.75"	38.10 x 19.00	5.00	127.00	
9634001731	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1"	38.10 x 25.40	5.00	127.00	
9634001729	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.5"	38.10 x 12.70	5.50	139.70	
9634001734	SF4(PM) (ID=15EP/OD=32µin)	2"	1"	50.80 x 25.40	7.25	184.20	
9634001735	SF4(PM) (ID=15EP/OD=32µin)	2"	1.5"	50.80 x 38.10	5.25	133.40	
9634001733	SF4(PM) (ID=15EP/OD=32µin)	2"	0.75"	50.80 x 19.00	7.25	184.20	
9634001740	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2"	63.50 x 50.80	5.50	139.70	
9634001739	SF4(PM) (ID=15EP/OD=32µin)	2.5"	1.5"	63.50 x 38.10	7.50	184.20	
9634001743	SF4(PM) (ID=15EP/OD=32µin)	3"	2"	76.20 x 50.80	7.50	190.50	
9634001742	SF4(PM) (ID=15EP/OD=32µin)	3"	1.5"	76.20 x 50.80	9.25	235.00	
9634001744	SF4(PM) (ID=15EP/OD=32µin)	3"	2.5"	76.20 x 63.50	5.50	139.70	
9634001747	SF4(PM) (ID=15EP/OD=32µin)	4"	2"	101.60 x 50.80	11.75	298.40	
9634001748	SF4(PM) (ID=15EP/OD=32µin)	4"	2.5"	101.60 x 63.50	9.75	247.70	
9634001749	SF4(PM) (ID=15EP/OD=32µin)	4"	3"	101.60 x 76.20	7.75	196.90	
9634050059	SF4(PM) (ID=15EP/OD=32µin)	6"	3"	152.40 x 76.20	10.00	254.00	
9634001750	SF4(PM) (ID=15EP/OD=32µin)	6"	4"	152.40 x 101.60	10.00	254.00	

Item no.	Finish	Size			Dimension A		
		Inch	Inch	mm	Inch	mm	
B31-14MP							
9634004301	SF1(PL) (ID=20/OD=32µin)	0.75"	0.5"	19.00 x 12.70	2.00	50.80	
9634004302	SF1(PL) (ID=20/OD=32µin)	1"	0.5"	25.40 x 12.70	2.50	63.50	
9634004303	SF1(PL) (ID=20/OD=32µin)	1"	0.75"	25.40 x 19.00	2.00	50.80	
9634004304	SF1(PL) (ID=20/OD=32µin)	1.5"	0.5"	38.10 x 12.70	3.50	88.90	
9634004305	SF1(PL) (ID=20/OD=32µin)	1.5"	0.75"	38.10 x 19.00	3.00	76.20	
9634004306	SF1(PL) (ID=20/OD=32µin)	1.5"	1"	38.10 x 25.40	3.00	76.20	
9634004309	SF1(PL) (ID=20/OD=32µin)	2"	1"	50.80 x 25.40	5.00	127.00	
9634004310	SF1(PL) (ID=20/OD=32µin)	2"	1.5"	50.80 x 38.10	3.00	76.20	
9634004308	SF1(PL) (ID=20/OD=32µin)	2"	0.75"	50.80 x 19.00	5.00	127.00	
9634004314	SF1(PL) (ID=20/OD=32µin)	2.5"	1.5"	63.50 x 38.10	5.00	127.00	
9634004315	SF1(PL) (ID=20/OD=32µin)	2.5"	2"	63.50 x 50.80	3.00	76.20	
9634004317	SF1(PL) (ID=20/OD=32µin)	3"	1.5"	76.20 x 50.80	7.00	177.80	
9634004318	SF1(PL) (ID=20/OD=32µin)	3"	2"	76.20 x 50.80	5.00	127.00	
9634004319	SF1(PL) (ID=20/OD=32µin)	3"	2.5"	76.20 x 63.50	3.00	76.20	
9634004322	SF1(PL) (ID=20/OD=32µin)	4"	2"	101.60 x 50.80	9.13	231.80	
9634004323	SF1(PL) (ID=20/OD=32µin)	4"	2.5"	101.60 x 63.50	9.13	231.80	
9634004324	SF1(PL) (ID=20/OD=32µin)	4"	3"	101.60 x 76.20	5.13	130.20	
9634004325	SF1(PL) (ID=20/OD=32µin)	6"	4"	152.40 x 101.60	7.63	193.70	
9634004326	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.5"	19.00 x 12.70	2.00	50.80	
9634004327	SF4(PM) (ID=15EP/OD=32µin)	1"	0.5"	25.40 x 12.70	2.50	63.50	
9634004328	SF4(PM) (ID=15EP/OD=32µin)	1"	0.75"	25.40 x 19.00	2.00	50.80	
9634004329	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.5"	38.10 x 12.70	3.50	88.90	
9634004331	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1"	38.10 x 25.40	3.00	76.20	
9634004330	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.75"	38.10 x 19.00	3.00	76.20	
9634004334	SF4(PM) (ID=15EP/OD=32µin)	2"	1"	50.80 x 25.40	5.00	127.00	
9634004335	SF4(PM) (ID=15EP/OD=32µin)	2"	1.5"	50.80 x 38.10	3.00	76.20	
9634004333	SF4(PM) (ID=15EP/OD=32µin)	2"	0.75"	50.80 x 19.00	5.00	127.00	
9634004339	SF4(PM) (ID=15EP/OD=32µin)	2.5"	1.5"	63.50 x 38.10	5.00	127.00	
9634004340	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2"	63.50 x 50.80	3.00	76.20	
9634004343	SF4(PM) (ID=15EP/OD=32µin)	3"	2"	76.20 x 50.80	5.00	127.00	
9634004344	SF4(PM) (ID=15EP/OD=32µin)	3"	2.5"	76.20 x 63.50	3.00	76.20	
9634004342	SF4(PM) (ID=15EP/OD=32µin)	3"	1.5"	76.20 x 50.80	7.00	177.80	
9634004348	SF4(PM) (ID=15EP/OD=32µin)	4"	2.5"	101.60 x 63.50	9.13	231.80	
9634004347	SF4(PM) (ID=15EP/OD=32µin)	4"	2"	101.60 x 50.80	9.13	231.80	
9634004349	SF4(PM) (ID=15EP/OD=32µin)	4"	3"	101.60 x 76.20	5.13	130.20	
9634004350	SF4(PM) (ID=15EP/OD=32µin)	6"	4"	152.40 x 101.60	7.63	193.70	
B31MS							
9614206301	SF1(PL) (ID=20/OD=32µin)	1"	0.5"	25.40 x 12.70	3.00	76.20	
9614206303	SF1(PL) (ID=20/OD=32µin)	1.5"	0.75"	38.10 x 19.00	3.50	88.90	
9614206305	SF1(PL) (ID=20/OD=32µin)	2"	1"	50.80 x 25.40	3.874	98.40	
9614206308	SF1(PL) (ID=20/OD=32µin)	2.5"	2"	63.50 x 50.80	3.00	76.20	

Item no.	Finish	Size			Dimension A		
		Inch	Inch	mm	Inch	mm	
B31S							
9614206103	SF1(PL) (ID=20/OD=32µin)	0.5"	0.375"	12.70 x 6.55	1.875	46.50	
9614206102	SF1(PL) (ID=20/OD=32µin)	0.5"	0.25"	12.70 x 6.35	1.875	46.50	
9614206105	SF1(PL) (ID=20/OD=32µin)	0.75"	0.5"	19.00 x 12.70	2.125	54.00	
9614206104	SF1(PL) (ID=20/OD=32µin)	0.75"	0.375"	19.00 x 9.55	2.00	50.80	
9614206101	SF1(PL) (ID=20/OD=32µin)	0.375"	0.25"	6.55 x 6.35	1.626	41.30	
9614206106	SF1(PL) (ID=20/OD=32µin)	1"	0.5"	25.40 x 12.70	2.50	63.50	
9614206107	SF1(PL) (ID=20/OD=32µin)	1"	0.75"	25.40 x 19.00	2.125	54.00	
9614206108	SF1(PL) (ID=20/OD=32µin)	1.5"	0.75"	38.10 x 19.00	3.00	76.20	
9614206109	SF1(PL) (ID=20/OD=32µin)	1.5"	1"	38.10 x 25.40	2.50	63.50	
9614206111	SF1(PL) (ID=20/OD=32µin)	2"	1.5"	50.80 x 38.10	2.50	63.50	
9614206110	SF1(PL) (ID=20/OD=32µin)	2"	1"	50.80 x 25.40	3.375	85.80	
9614206112	SF1(PL) (ID=20/OD=32µin)	2.5"	1.5"	63.50 x 38.10	3.375	85.80	
9614206113	SF1(PL) (ID=20/OD=32µin)	2.5"	2"	63.50 x 50.80	2.50	63.50	
9614206114	SF1(PL) (ID=20/OD=32µin)	3"	1.5"	76.20 x 38.10	4.250	108.00	
9614206115	SF1(PL) (ID=20/OD=32µin)	3"	2"	76.20 x 50.80	3.375	85.80	
9614206116	SF1(PL) (ID=20/OD=32µin)	3"	2.5"	76.20 x 63.50	2.625	66.70	
9614206119	SF1(PL) (ID=20/OD=32µin)	4"	3"	101.60 x 76.20	3.875	98.40	
9614206118	SF1(PL) (ID=20/OD=32µin)	4"	2.5"	101.60 x 63.50	4.252	108.00	
9614206117	SF1(PL) (ID=20/OD=32µin)	4"	2"	101.60 x 50.80	5.125	130.20	
9614206120	SF1(PL) (ID=20/OD=32µin)	6"	3"	152.40 x 76.20	7.250	184.20	
9614206121	SF1(PL) (ID=20/OD=32µin)	6"	4"	152.40 x 101.60	5.625	142.90	
9614206123	SF4(PM) (ID=15EP/OD=32µin)	0.5"	0.25"	12.70 x 6.35	1.875	46.50	
9614206124	SF4(PM) (ID=15EP/OD=32µin)	0.5"	0.375"	12.70 x 6.55	1.875	46.50	
9614206126	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.5"	19.00 x 12.70	2.125	54.00	
9614206125	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.375"	19.00 x 9.55	2.00	50.80	
9614206122	SF4(PM) (ID=15EP/OD=32µin)	0.375"	0.25"	6.55 x 6.35	1.626	41.30	
9614206127	SF4(PM) (ID=15EP/OD=32µin)	1"	0.5"	25.40 x 12.70	2.50	63.50	
9614206128	SF4(PM) (ID=15EP/OD=32µin)	1"	0.75"	25.40 x 19.00	2.125	54.00	
9614206130	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1"	38.10 x 25.40	2.50	63.50	
9614206129	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.75"	38.10 x 19.00	3.00	76.20	
9614206131	SF4(PM) (ID=15EP/OD=32µin)	2"	1"	50.80 x 25.40	3.375	85.80	
9614206132	SF4(PM) (ID=15EP/OD=32µin)	2"	1.5"	50.80 x 38.10	2.50	63.50	
9614206133	SF4(PM) (ID=15EP/OD=32µin)	2.5"	1.5"	63.50 x 38.10	3.375	85.80	
9614206134	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2"	63.50 x 50.80	2.50	63.50	
9614206136	SF4(PM) (ID=15EP/OD=32µin)	3"	2"	76.20 x 50.80	3.375	85.80	
9614206137	SF4(PM) (ID=15EP/OD=32µin)	3"	2.5"	76.20 x 63.50	2.625	66.70	
9614206135	SF4(PM) (ID=15EP/OD=32µin)	3"	1.5"	76.20 x 38.10	4.250	108.00	
9614206138	SF4(PM) (ID=15EP/OD=32µin)	4"	2"	101.60 x 50.80	5.125	130.20	
9614206140	SF4(PM) (ID=15EP/OD=32µin)	4"	3"	101.60 x 76.20	3.875	98.40	
9614206139	SF4(PM) (ID=15EP/OD=32µin)	4"	2.5"	101.60 x 63.50	7.087	180.00	
9614206141	SF4(PM) (ID=15EP/OD=32µin)	6"	3"	152.40 x 76.20	7.250	184.20	
9614206142	SF4(PM) (ID=15EP/OD=32µin)	6"	4"	152.40 x 101.60	5.625	142.90	

Item no.	Finish	Size			Dimension A		
		Inch	Inch	mm	Inch	mm	
B31S-14MP							
9614207401	SF1(PL) (ID=20/OD=32µin)	1"	0.5"	25.40 x 12.70	3.50	88.90	
9614207403	SF1(PL) (ID=20/OD=32µin)	1.5"	0.75"	38.10 x 19.00	4.00	101.60	
9614207501	SF1(PL) (ID=20/OD=32µin)	1.5"	1"	38.10 x 25.40	3.50	88.90	
9614207504	SF1(PL) (ID=20/OD=32µin)	2.5"	1.5"	63.50 x 38.10	4.374	111.10	
9614207312	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.5"	19.00 x 12.70	3.126	79.40	
9614207406	SF4(PM) (ID=15EP/OD=32µin)	1"	0.5"	25.40 x 12.70	3.50	88.90	
9614207407	SF4(PM) (ID=15EP/OD=32µin)	1"	0.75"	25.40 x 19.00	3.126	79.40	
9614207408	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.75"	38.10 x 19.00	4.00	101.60	
9614207514	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1"	152.40 x 101.60	3.50	88.90	
9614207516	SF4(PM) (ID=15EP/OD=32µin)	2"	1.5"	50.80 x 38.10	3.50	88.90	
9614207515	SF4(PM) (ID=15EP/OD=32µin)	2"	1"	50.80 x 25.40	4.374	111.10	
9614207517	SF4(PM) (ID=15EP/OD=32µin)	2.5"	1.5"	63.50 x 38.10	4.374	111.10	
9614207518	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2"	63.50 x 50.80	3.50	88.90	
9614207519	SF4(PM) (ID=15EP/OD=32µin)	3"	1.5"	76.20 x 38.10	5.250	133.35	
9614207520	SF4(PM) (ID=15EP/OD=32µin)	3"	2"	76.20 x 50.80	4.374	111.10	
9614207521	SF4(PM) (ID=15EP/OD=32µin)	3"	2.5"	76.20 x 63.50	3.626	92.10	
9614207522	SF4(PM) (ID=15EP/OD=32µin)	4"	2"	101.60 x 50.80	6.250	158.75	
9614207523	SF4(PM) (ID=15EP/OD=32µin)	4"	2.5"	101.60 x 63.50	5.374	136.50	
9614207524	SF4(PM) (ID=15EP/OD=32µin)	4"	3"	101.60 x 76.20	5.00	127.00	
9614207525	SF4(PM) (ID=15EP/OD=32µin)	6"	3"	152.40 x 76.20	8.50	215.90	
9614207526	SF4(PM) (ID=15EP/OD=32µin)	6"	4"	152.40 x 101.60	7.00	177.80	

Item no.	Finish	Size			Dimension A		
		Inch	Inch	mm	Inch	mm	
							B32
9634039401	SF1(PL) (ID=20/OD=32µin)	0.75"	0.5"	19.00 x 12.70	4.00	101.60	
9634039402	SF1(PL) (ID=20/OD=32µin)	1"	0.5"	25.40 x 12.70	4.50	114.30	
9634039403	SF1(PL) (ID=20/OD=32µin)	1"	0.75"	25.40 x 19.00	4.00	101.60	
9634039404	SF1(PL) (ID=20/OD=32µin)	1.5"	0.5"	38.10 x 12.70	5.50	139.70	
9634039405	SF1(PL) (ID=20/OD=32µin)	1.5"	0.75"	38.10 x 19.00	5.00	127.00	
9634039406	SF1(PL) (ID=20/OD=32µin)	1.5"	1"	38.10 x 25.40	5.00	127.00	
9634039409	SF1(PL) (ID=20/OD=32µin)	2"	1"	50.80 x 25.40	7.25	184.20	
9634039410	SF1(PL) (ID=20/OD=32µin)	2"	1.5"	50.80 x 38.10	5.25	133.40	
9634039408	SF1(PL) (ID=20/OD=32µin)	2"	0.75"	50.80 x 19.00	7.25	184.00	
9634039414	SF1(PL) (ID=20/OD=32µin)	2.5"	1.5"	63.50 x 38.10	7.25	184.20	
9634039415	SF1(PL) (ID=20/OD=32µin)	2.5"	2"	63.50 x 50.80	5.50	139.70	
9634039417	SF1(PL) (ID=20/OD=32µin)	3"	1.5"	76.20 x 38.10	9.25	235.00	
9634039418	SF1(PL) (ID=20/OD=32µin)	3"	2"	76.20 x 50.80	7.50	190.50	
9634039419	SF1(PL) (ID=20/OD=32µin)	3"	2.5"	76.20 x 63.50	5.50	139.70	
9634039416	SF1(PL) (ID=20/OD=32µin)	3"	1"	76.20 x 25.40	11.25	286.00	
9634039422	SF1(PL) (ID=20/OD=32µin)	4"	2"	101.60 x 50.80	11.75	298.40	
9634039424	SF1(PL) (ID=20/OD=32µin)	4"	3"	101.60 x 76.20	7.75	196.90	
9634039423	SF1(PL) (ID=20/OD=32µin)	4"	2.5"	101.60 x 63.50	9.75	247.70	
9634039425	SF1(PL) (ID=20/OD=32µin)	6"	4"	152.40 x 101.60	10.00	254.00	
9634039426	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.5"	19.00 x 12.70	4.00	101.60	
9634039427	SF4(PM) (ID=15EP/OD=32µin)	1"	0.5"	25.40 x 12.70	4.50	114.30	
9634039428	SF4(PM) (ID=15EP/OD=32µin)	1"	0.75"	25.40 x 19.00	4.00	101.60	
9634039430	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.75"	38.10 x 19.00	5.00	127.00	
9634039431	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1"	38.10 x 25.40	5.00	127.00	
9634039429	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.5"	38.10 x 12.70	5.50	139.70	
9634039434	SF4(PM) (ID=15EP/OD=32µin)	2"	1"	50.80 x 25.40	7.25	184.20	
9634039435	SF4(PM) (ID=15EP/OD=32µin)	2"	1.5"	50.80 x 38.10	5.25	133.40	
9634039439	SF4(PM) (ID=15EP/OD=32µin)	2.5"	1.5"	63.50 x 38.10	7.25	184.20	
9634039440	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2"	63.50 x 50.80	5.50	139.70	
9634039443	SF4(PM) (ID=15EP/OD=32µin)	3"	2"	76.20 x 50.80	7.50	190.50	
9634039444	SF4(PM) (ID=15EP/OD=32µin)	3"	2.5"	76.20 x 63.50	5.50	139.70	
9634039442	SF4(PM) (ID=15EP/OD=32µin)	3"	1.5"	76.20 x 38.10	9.25	235.00	
9634039447	SF4(PM) (ID=15EP/OD=32µin)	4"	2"	101.60 x 50.80	11.75	298.40	
9634039448	SF4(PM) (ID=15EP/OD=32µin)	4"	2.5"	101.60 x 63.50	9.75	247.70	
9634039449	SF4(PM) (ID=15EP/OD=32µin)	4"	3"	101.60 x 76.20	7.75	196.90	
9634039450	SF4(PM) (ID=15EP/OD=32µin)	6"	4"	152.40 x 101.60	10.00	254.00	
9634039452	SF4(PM) (ID=15EP/OD=32µin)	6"	3"	152.40 x 76.20	10.00	254.00	

Item no.	Finish	Size			Dimension A		
		Inch	Inch	mm	Inch	mm	
B32-14MP							
9634039201	SF1(PL) (ID=20/OD=32µin)	0.75"	0.5"	19.00 x 12.70	2.00	50.80	
9634039202	SF1(PL) (ID=20/OD=32µin)	1"	0.5"	25.40 x 12.70	2.50	63.50	
9634039203	SF1(PL) (ID=20/OD=32µin)	1"	0.75"	25.40 x 19.00	2.00	50.80	
9634039205	SF1(PL) (ID=20/OD=32µin)	1.5"	0.75"	38.10 x 19.00	3.00	76.20	
9634039206	SF1(PL) (ID=20/OD=32µin)	1.5"	1"	38.10 x 25.40	3.00	76.20	
9634039204	SF1(PL) (ID=20/OD=32µin)	1.5"	0.5"	38.10 x 12.70	3.50	88.90	
9634039210	SF1(PL) (ID=20/OD=32µin)	2"	1.5"	50.80 x 38.10	3.00	76.20	
9634039209	SF1(PL) (ID=20/OD=32µin)	2"	1"	50.80 x 25.40	5.00	127.00	
9634039214	SF1(PL) (ID=20/OD=32µin)	2.5"	1.5"	63.50 x 38.10	5.00	127.00	
9634039215	SF1(PL) (ID=20/OD=32µin)	2.5"	2"	63.50 x 50.80	3.00	76.20	
9634039218	SF1(PL) (ID=20/OD=32µin)	3"	2"	76.20 x 50.80	5.00	127.00	
9634039217	SF1(PL) (ID=20/OD=32µin)	3"	1.5"	76.20 x 38.10	7.00	177.80	
9634039219	SF1(PL) (ID=20/OD=32µin)	3"	2.5"	76.20 x 63.50	3.00	76.20	
9634039224	SF1(PL) (ID=20/OD=32µin)	4"	3"	101.60 x 76.20	5.13	130.20	
9634039222	SF1(PL) (ID=20/OD=32µin)	4"	2"	101.60 x 50.80	9.13	231.80	
9634039223	SF1(PL) (ID=20/OD=32µin)	4"	2.5"	101.60 x 63.50	7.13	181.00	
9634039251	SF1(PL) (ID=20/OD=32µin)	6"	3"	152.40 x 76.20	7625	194.00	
9634039226	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.5"	19.00 x 12.70	2.00	50.80	
9634039228	SF4(PM) (ID=15EP/OD=32µin)	1"	0.75"	25.40 x 19.00	2.00	50.80	
9634039227	SF4(PM) (ID=15EP/OD=32µin)	1"	0.5"	25.40 x 12.70	2.50	63.50	
9634039230	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.75"	38.10 x 19.00	3.00	76.20	
9634039231	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1"	38.10 x 25.40	3.00	76.20	
9634039229	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.5"	38.10 x 12.70	3.50	88.90	
9634039235	SF4(PM) (ID=15EP/OD=32µin)	2"	1.5"	50.80 x 38.10	3.00	76.20	
9634039234	SF4(PM) (ID=15EP/OD=32µin)	2"	1"	50.80 x 25.40	5.00	127.00	
9634039240	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2"	63.50 x 50.80	3.00	76.20	
9634039239	SF4(PM) (ID=15EP/OD=32µin)	2.5"	1.5"	63.50 x 38.10	5.00	127.00	
9634039243	SF4(PM) (ID=15EP/OD=32µin)	3"	2"	76.20 x 50.80	5.00	127.00	
9634039242	SF4(PM) (ID=15EP/OD=32µin)	3"	1.5"	76.20 x 38.10	7.00	177.80	
9634039244	SF4(PM) (ID=15EP/OD=32µin)	3"	2.5"	76.20 x 63.50	3.00	76.20	
9634039247	SF4(PM) (ID=15EP/OD=32µin)	4"	2"	101.60 x 50.80	9.13	231.80	
9634039248	SF4(PM) (ID=15EP/OD=32µin)	4"	2.5"	101.60 x 63.50	7.13	181.00	
9634039249	SF4(PM) (ID=15EP/OD=32µin)	4"	3"	101.60 x 76.20	5.13	130.20	
9634039252	SF4(PM) (ID=15EP/OD=32µin)	6"	3"	152.40 x 76.20	7625	194.00	
B32MS							
9614207705	SF1(PL) (ID=20/OD=32µin)	0.75"	0.5"	19.00 x 12.70	2.626	66.70	
9614207802	SF1(PL) (ID=20/OD=32µin)	1"	0.75"	25.40 x 19.00	2.626	66.70	
9614207801	SF1(PL) (ID=20/OD=32µin)	1"	0.5"	25.40 x 12.70	3.00	76.20	
9614207803	SF1(PL) (ID=20/OD=32µin)	1.5"	0.75"	38.10 x 19.00	3.50	88.90	
9614207804	SF1(PL) (ID=20/OD=32µin)	1.5"	1"	38.10 x 25.40	3.00	76.20	
9614207805	SF1(PL) (ID=20/OD=32µin)	2"	1"	50.80 x 25.40	3.874	98.40	
9614207806	SF1(PL) (ID=20/OD=32µin)	2"	1.5"	50.80 x 38.10	3.00	76.20	
9614207807	SF1(PL) (ID=20/OD=32µin)	2.5"	1.5"	63.50 x 38.10	3.874	98.40	
9614207808	SF1(PL) (ID=20/OD=32µin)	2.5"	2"	63.50 x 50.80	3.00	76.20	
9614207810	SF1(PL) (ID=20/OD=32µin)	3"	2"	76.20 x 50.80	3.878	98.50	
9614207811	SF1(PL) (ID=20/OD=32µin)	3"	2.5"	76.20 x 63.50	3.126	79.40	
9614207809	SF1(PL) (ID=20/OD=32µin)	3"	1.5"	76.20 x 38.10	4.752	120.70	

Item no.	Finish	Size			Dimension A		
		Inch	Inch	mm	Inch	mm	
B32MS							
9614207814	SF1(PL) (ID=20/OD=32µin)	4"	3"	101.60 x 76.20	4.50	114.30	
9614207812	SF1(PL) (ID=20/OD=32µin)	4"	2"	101.60 x 50.80	5.752	146.10	
9614207813	SF1(PL) (ID=20/OD=32µin)	4"	2.5"	101.60 x 63.50	4.878	123.90	
9614207815	SF1(PL) (ID=20/OD=32µin)	6"	3"	152.40 x 76.20	8.00	203.20	
9614207816	SF1(PL) (ID=20/OD=32µin)	6"	4"	152.40 x 101.60	6.374	161.90	
9614207712	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.5"	19.00 x 12.70	2.626	66.70	
9614207818	SF4(PM) (ID=15EP/OD=32µin)	1"	0.75"	25.40 x 19.00	2.626	66.70	
9614207817	SF4(PM) (ID=15EP/OD=32µin)	1"	0.5"	25.40 x 12.70	3.00	76.20	
9614207820	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1"	38.10 x 25.40	3.00	76.20	
9614207819	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.75"	38.10 x 19.00	3.50	88.90	
9614207821	SF4(PM) (ID=15EP/OD=32µin)	2"	1"	50.80 x 25.40	3.874	98.40	
9614207822	SF4(PM) (ID=15EP/OD=32µin)	2"	1.5"	50.80 x 38.10	3.00	76.20	
9614207823	SF4(PM) (ID=15EP/OD=32µin)	2.5"	1.5"	63.50 x 38.10	3.874	98.40	
9614207824	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2"	63.50 x 50.80	3.00	76.20	
9614207825	SF4(PM) (ID=15EP/OD=32µin)	3"	1.5"	76.20 x 38.10	4.752	120.70	
9614207826	SF4(PM) (ID=15EP/OD=32µin)	3"	2"	76.20 x 50.80	3.878	98.50	
9614207827	SF4(PM) (ID=15EP/OD=32µin)	3"	2.5"	76.20 x 63.50	3.126	79.40	
9614207828	SF4(PM) (ID=15EP/OD=32µin)	4"	2"	101.60 x 50.80	5.752	146.10	
9614207829	SF4(PM) (ID=15EP/OD=32µin)	4"	2.5"	101.60 x 63.50	4.878	123.90	
9614207830	SF4(PM) (ID=15EP/OD=32µin)	4"	3"	101.60 x 76.20	4.50	114.30	
9614207832	SF4(PM) (ID=15EP/OD=32µin)	6"	4"	152.40 x 101.60	6.374	161.90	
9614207831	SF4(PM) (ID=15EP/OD=32µin)	6"	3"	152.40 x 76.20	8.00	203.20	
B32S							
9614207603	SF1(PL) (ID=20/OD=32µin)	0.5"	0.375"	12.70 x 6.55	1.831	46.50	
9614207602	SF1(PL) (ID=20/OD=32µin)	0.5"	0.25"	12.70 x 6.35	1.831	46.50	
9614207605	SF1(PL) (ID=20/OD=32µin)	0.75"	0.5"	19.00 x 12.70	2.126	54.00	
9614207604	SF1(PL) (ID=20/OD=32µin)	0.75"	0.375"	19.00 x 6.55	2.00	50.80	
9614207601	SF1(PL) (ID=20/OD=32µin)	0.375"	0.25"	6.55 x 6.35	1.626	41.30	
9614207606	SF1(PL) (ID=20/OD=32µin)	1"	0.5"	25.40 x 12.70	2.50	63.50	
9614207607	SF1(PL) (ID=20/OD=32µin)	1"	0.75"	25.40 x 19.00	2.126	54.00	
9614207608	SF1(PL) (ID=20/OD=32µin)	1.5"	0.75"	38.10 x 19.00	3.00	76.20	
9614207609	SF1(PL) (ID=20/OD=32µin)	1.5"	1"	38.10 x 25.40	2.50	63.50	
9614207610	SF1(PL) (ID=20/OD=32µin)	2"	1"	50.80 x 25.40	3.378	85.80	
9614207611	SF1(PL) (ID=20/OD=32µin)	2"	1.5"	50.80 x 38.10	2.50	63.50	
9614207613	SF1(PL) (ID=20/OD=32µin)	2.5"	2"	63.50 x 50.80	2.50	63.50	
9614207612	SF1(PL) (ID=20/OD=32µin)	2.5"	1.5"	63.50 x 38.10	3.378	85.80	
9614207615	SF1(PL) (ID=20/OD=32µin)	3"	2"	76.20 x 50.80	3.378	85.80	
9614207614	SF1(PL) (ID=20/OD=32µin)	3"	1.5"	76.20 x 38.10	4.252	108.00	
9614207616	SF1(PL) (ID=20/OD=32µin)	3"	2.5"	76.20 x 63.50	2.626	66.70	
9614207619	SF1(PL) (ID=20/OD=32µin)	4"	3"	101.60 x 76.20	3.874	98.40	
9614207618	SF1(PL) (ID=20/OD=32µin)	4"	2.5"	101.60 x 63.50	7.087	180.00	
9614207617	SF1(PL) (ID=20/OD=32µin)	4"	2"	101.60 x 50.80	5.126	130.20	
9614207620	SF1(PL) (ID=20/OD=32µin)	6"	3"	152.40 x 76.20	7.252	184.20	
9614207623	SF4(PM) (ID=15EP/OD=32µin)	0.5"	0.25"	12.70 x 6.35	1.831	46.50	
9614207624	SF4(PM) (ID=15EP/OD=32µin)	0.5"	0.375"	12.70 x 6.55	1.831	46.50	
9614207626	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.5"	19.00 x 12.70	2.126	54.00	
9614207625	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.375"	19.00 x 6.55	2.00	50.80	

Item no.	Finish	Size			Dimension A		
		Inch	Inch	mm	Inch	mm	
B32S							
9614207622	SF4(PM) (ID=15EP/OD=32µin)	0.375"	0.25"	6.55 x 6.35	1.626	41.30	
9614207627	SF4(PM) (ID=15EP/OD=32µin)	1"	0.5"	25.40 x 12.70	2.50	63.50	
9614207628	SF4(PM) (ID=15EP/OD=32µin)	1"	0.75"	25.40 x 19.00	2.126	54.00	
9614207630	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1"	38.10 x 25.40	2.50	63.50	
9614207629	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.75"	38.10 x 19.00	3.00	76.20	
9614207631	SF4(PM) (ID=15EP/OD=32µin)	2"	1"	50.80 x 25.40	3.378	85.80	
9614207632	SF4(PM) (ID=15EP/OD=32µin)	2"	1.5"	50.80 x 38.10	2.50	63.50	
9614207634	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2"	63.50 x 50.80	2.50	63.50	
9614207633	SF4(PM) (ID=15EP/OD=32µin)	2.5"	1.5"	63.50 x 38.10	3.378	85.80	
9614207637	SF4(PM) (ID=15EP/OD=32µin)	3"	2.5"	76.20 x 63.50	2.626	66.70	
9614207636	SF4(PM) (ID=15EP/OD=32µin)	3"	2"	76.20 x 50.80	3.378	85.80	
9614207635	SF4(PM) (ID=15EP/OD=32µin)	3"	1.5"	76.20 x 38.10	4.252	108.00	
9614207638	SF4(PM) (ID=15EP/OD=32µin)	4"	2"	101.60 x 50.80	5.126	130.20	
9614207639	SF4(PM) (ID=15EP/OD=32µin)	4"	2.5"	101.60 x 63.50	7.087	180.00	
9614207640	SF4(PM) (ID=15EP/OD=32µin)	4"	3"	101.60 x 76.20	3.874	98.40	
9614207641	SF4(PM) (ID=15EP/OD=32µin)	6"	3"	152.40 x 76.20	7.252	184.20	
B32S-14MP							
9614208102	SF1(PL) (ID=20/OD=32µin)	2"	1"	50.80 x 25.40	4.374	111.10	
9614208105	SF1(PL) (ID=20/OD=32µin)	2.5"	2"	63.50 x 50.80	3.50	88.90	
9614208116	SF4(PM) (ID=15EP/OD=32µin)	2"	1.5"	50.80 x 38.10	3.50	88.90	

Tri-Clover BPE Reducing Tees

UltraPure fittings

ALSIS Code: 5036, 5037

Model: Reducing Tees
Standard: ASME BPE
Material: 316L

Item no.	Finish	Size		Dimension (Inch)			
		Inch	Inch	A	B		
B7IWWMS							
241737	SF1(PL) (ID=20/OD=32µin)	0.5"	1.5"	2.50	0.88		
241738	SF1(PL) (ID=20/OD=32µin)	0.5"	2"	2.75	1.00		
241739	SF1(PL) (ID=20/OD=32µin)	0.75"	1.5"	2.50	1.00		
241740	SF1(PL) (ID=20/OD=32µin)	0.75"	2"	2.75	1.13		
241741	SF1(PL) (ID=20/OD=32µin)	1"	1.5"	2.50	1.13		
241742	SF1(PL) (ID=20/OD=32µin)	1"	2"	2.75	1.25		
241743	SF1(PL) (ID=20/OD=32µin)	1.5"	2"	2.75	1.50		
241751	SF4(PM) (ID=15EP/OD=32µin)	0.5"	1.5"	2.50	0.88		
242082	SF4(PM) (ID=15EP/OD=32µin)	0.5"	2"	2.75	1.00		
241870	SF4(PM) (ID=15EP/OD=32µin)	0.75"	1.5"	2.50	1.00		
242083	SF4(PM) (ID=15EP/OD=32µin)	0.75"	2"	2.75	1.13		
241753	SF4(PM) (ID=15EP/OD=32µin)	1"	1.5"	2.50	1.13		
241898	SF4(PM) (ID=15EP/OD=32µin)	1"	2"	2.75	1.25		
241869	SF4(PM) (ID=15EP/OD=32µin)	1.5"	2"	2.75	1.50		
B7RMP							
9634003643	SF1(PL) (ID=20/OD=32µin)	0.75"	0.5"	2.50	2.50		
9634003644	SF1(PL) (ID=20/OD=32µin)	1"	0.5"	2.63	2.63		
9634003645	SF1(PL) (ID=20/OD=32µin)	1"	0.75"	2.63	2.63		
9634003646	SF1(PL) (ID=20/OD=32µin)	1.5"	0.5"	2.88	2.88		
9634003647	SF1(PL) (ID=20/OD=32µin)	1.5"	0.75"	2.88	2.88		
9634003648	SF1(PL) (ID=20/OD=32µin)	1.5"	1"	2.88	2.88		
9634003649	SF1(PL) (ID=20/OD=32µin)	2"	0.5"	3.38	3.13		
9634003650	SF1(PL) (ID=20/OD=32µin)	2"	0.75"	3.38	3.13		
9634003651	SF1(PL) (ID=20/OD=32µin)	2"	1"	3.38	3.13		
9634003652	SF1(PL) (ID=20/OD=32µin)	2"	1.5"	3.38	3.13		
9634003656	SF1(PL) (ID=20/OD=32µin)	2.5"	1.5"	3.63	3.38		
9634003653	SF1(PL) (ID=20/OD=32µin)	2.5"	0.5"	3.63	3.38		
9634003654	SF1(PL) (ID=20/OD=32µin)	2.5"	0.75"	3.63	3.38		
9634003655	SF1(PL) (ID=20/OD=32µin)	2.5"	1"	3.63	3.38		
9634003657	SF1(PL) (ID=20/OD=32µin)	2.5"	2"	3.63	3.38		
9634003658	SF1(PL) (ID=20/OD=32µin)	3"	0.5"	3.88	3.63		
9634003659	SF1(PL) (ID=20/OD=32µin)	3"	3"	3.88	3.63		
9634003660	SF1(PL) (ID=20/OD=32µin)	3"	1"	3.88	3.63		
9634003661	SF1(PL) (ID=20/OD=32µin)	3"	1.5"	3.88	3.63		
8010002831	SF1(PL) (ID=20/OD=32µin)	3"	2"	3.88	3.88		
8010002832	SF1(PL) (ID=20/OD=32µin)	3"	2.5"	3.88	3.88		
9634003717	SF1(PL) (ID=20/OD=32µin)	4"	0.5"	4.75	4.13		
9634003719	SF1(PL) (ID=20/OD=32µin)	4"	1"	4.75	4.13		
9634003720	SF1(PL) (ID=20/OD=32µin)	4"	1.5"	4.75	4.13		
9634003721	SF1(PL) (ID=20/OD=32µin)	4"	2"	4.75	4.38		
9634003722	SF1(PL) (ID=20/OD=32µin)	4"	2.5"	4.75	4.38		
9634003723	SF1(PL) (ID=20/OD=32µin)	4"	3"	4.75	4.38		
9634003665	SF4(PM) (ID=15EP/OD=32µin)	1"	0.5"	2.63	2.63		
9634003667	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.5"	2.88	2.88		
9634003669	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1"	2.88	2.88		
9634003670	SF4(PM) (ID=15EP/OD=32µin)	2"	0.5"	3.38	3.13		
9634003672	SF4(PM) (ID=15EP/OD=32µin)	2"	1"	3.38	3.13		

Item no.	Finish	Size		Dimension (Inch)		
		Inch	Inch	A	B	
B7RMP						
9634003673	SF4(PM) (ID=15EP/OD=32µin)	2"	1.5"	3.38	3.13	
B7RWWM						
9634039943	SF1(PL) (ID=20/OD=32µin)	0.75"	0.5"	2.00	2.50	
9634039944	SF1(PL) (ID=20/OD=32µin)	1"	0.5"	2.13	2.63	
9634039945	SF1(PL) (ID=20/OD=32µin)	1"	0.75"	2.13	2.63	
9634039946	SF1(PL) (ID=20/OD=32µin)	1.5"	0.5"	2.38	2.88	
9634039947	SF1(PL) (ID=20/OD=32µin)	1.5"	0.75"	2.38	2.88	
9634039948	SF1(PL) (ID=20/OD=32µin)	1.5"	1"	2.38	2.88	
9634039952	SF1(PL) (ID=20/OD=32µin)	2"	1.5"	2.88	3.13	
9634039949	SF1(PL) (ID=20/OD=32µin)	2"	0.5"	2.88	3.13	
9634039950	SF1(PL) (ID=20/OD=32µin)	2"	0.75"	2.88	3.13	
9634039951	SF1(PL) (ID=20/OD=32µin)	2"	1"	2.88	3.13	
9634039956	SF1(PL) (ID=20/OD=32µin)	2.5"	1.5"	3.13	3.38	
9634039957	SF1(PL) (ID=20/OD=32µin)	2.5"	2"	3.13	3.38	
9634039955	SF1(PL) (ID=20/OD=32µin)	2.5"	1"	3.13	3.38	
9634039962	SF1(PL) (ID=20/OD=32µin)	3"	2"	3.38	3.63	
9634039963	SF1(PL) (ID=20/OD=32µin)	3"	2.5"	3.38	3.63	
9634039960	SF1(PL) (ID=20/OD=32µin)	3"	1"	3.38	3.63	
9634039961	SF1(PL) (ID=20/OD=32µin)	3"	1.5"	3.38	3.63	
9634040021	SF1(PL) (ID=20/OD=32µin)	4"	2"	4.13	4.38	
9634040019	SF1(PL) (ID=20/OD=32µin)	4"	1"	4.13	4.13	
9634040020	SF1(PL) (ID=20/OD=32µin)	4"	1.5"	4.13	4.13	
9634040022	SF1(PL) (ID=20/OD=32µin)	4"	2.5"	4.13	4.38	
9634040023	SF1(PL) (ID=20/OD=32µin)	4"	3"	4.13	4.38	
9634039964	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.5"	2.00	2.50	
9634039965	SF4(PM) (ID=15EP/OD=32µin)	1"	0.5"	2.13	2.63	
9634039966	SF4(PM) (ID=15EP/OD=32µin)	1"	0.75"	2.13	2.63	
9634039967	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.5"	2.38	2.88	
9634039968	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.75"	2.38	2.88	
9634039969	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1"	2.38	2.88	
9634039970	SF4(PM) (ID=15EP/OD=32µin)	2"	0.5"	2.88	3.13	
9634039971	SF4(PM) (ID=15EP/OD=32µin)	2"	0.75"	2.88	3.13	
9634039972	SF4(PM) (ID=15EP/OD=32µin)	2"	1"	2.88	3.13	
9634039973	SF4(PM) (ID=15EP/OD=32µin)	2"	1.5"	2.88	3.13	
9634039976	SF4(PM) (ID=15EP/OD=32µin)	2.5"	1"	3.13	3.38	
9634039977	SF4(PM) (ID=15EP/OD=32µin)	2.5"	1.5"	3.13	3.38	
9634039978	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2"	3.13	3.38	
9634039981	SF4(PM) (ID=15EP/OD=32µin)	3"	1"	3.38	3.63	
9634039982	SF4(PM) (ID=15EP/OD=32µin)	3"	1.5"	3.38	3.63	
9634039983	SF4(PM) (ID=15EP/OD=32µin)	3"	2"	3.38	3.63	
9634039984	SF4(PM) (ID=15EP/OD=32µin)	3"	2.5"	4.13	4.13	

Tri-Clover BPE Reducing Tees

UltraPure fittings

ALSIS Code: 5036, 5037

Model: Reducing Tees
Standard: ASME BPE
Material: 316L

Item no.	Finish	Size		Dimension (Inch)		
		Inch	Inch	A	B	
B7RWWW						
9634040031	SF4(PM) (ID=15EP/OD=32µin)	4"	3"	4.13	4.38	
9634040029	SF4(PM) (ID=15EP/OD=32µin)	4"	2"	4.13	4.38	
B7RWWW						
9634001043	SF1(PL) (ID=20/OD=32µin)	0.75"	0.5"	2.00	2.00	
9634001044	SF1(PL) (ID=20/OD=32µin)	1"	0.5"	2.13	2.13	
9634001045	SF1(PL) (ID=20/OD=32µin)	1"	0.75"	2.13	2.13	
9634001047	SF1(PL) (ID=20/OD=32µin)	1.5"	0.75"	2.38	2.38	
9634001048	SF1(PL) (ID=20/OD=32µin)	1.5"	1"	2.38	2.38	
9634001046	SF1(PL) (ID=20/OD=32µin)	1.5"	0.5"	2.38	2.38	
9634001049	SF1(PL) (ID=20/OD=32µin)	2"	0.5"	2.88	2.63	
9634001050	SF1(PL) (ID=20/OD=32µin)	2"	0.75"	2.88	2.63	
9634001051	SF1(PL) (ID=20/OD=32µin)	2"	1"	2.88	2.63	
9634001052	SF1(PL) (ID=20/OD=32µin)	2"	1.5"	2.88	2.63	
9634001054	SF1(PL) (ID=20/OD=32µin)	2.5"	0.75"	3.13	2.88	
9634001057	SF1(PL) (ID=20/OD=32µin)	2.5"	2"	3.13	2.88	
9634001055	SF1(PL) (ID=20/OD=32µin)	2.5"	1"	3.13	2.88	
9634001053	SF1(PL) (ID=20/OD=32µin)	2.5"	0.5"	3.13	2.88	
9634001056	SF1(PL) (ID=20/OD=32µin)	2.5"	1.5"	3.13	2.88	
9634001059	SF1(PL) (ID=20/OD=32µin)	3"	0.75"	3.38	3.13	
9634001060	SF1(PL) (ID=20/OD=32µin)	3"	1"	3.38	3.13	
9634001061	SF1(PL) (ID=20/OD=32µin)	3"	1.5"	3.38	3.13	
9634001062	SF1(PL) (ID=20/OD=32µin)	3"	2"	3.38	3.13	
9634001063	SF1(PL) (ID=20/OD=32µin)	3"	2.5"	3.38	3.13	
9634001058	SF1(PL) (ID=20/OD=32µin)	3"	0.5"	3.38	3.13	
9634001121	SF1(PL) (ID=20/OD=32µin)	4"	2"	4.13	3.88	
9634001118	SF1(PL) (ID=20/OD=32µin)	4"	0.75"	4.13	3.63	
9634001117	SF1(PL) (ID=20/OD=32µin)	4"	0.5"	4.13	3.63	
9634001119	SF1(PL) (ID=20/OD=32µin)	4"	1"	4.13	3.63	
9634001120	SF1(PL) (ID=20/OD=32µin)	4"	1.5"	4.13	3.63	
9634001122	SF1(PL) (ID=20/OD=32µin)	4"	2.5"	4.13	3.88	
9634001123	SF1(PL) (ID=20/OD=32µin)	4"	3"	4.13	3.88	
9634048312	SF1(PL) (ID=20/OD=32µin)	6"	2"	5.63	5.13	
9634001124	SF1(PL) (ID=20/OD=32µin)	6"	4"	5.63	5.13	
9613600781	SF1(PL) (ID=20/OD=32µin)	6"	0.5"	5.63	5.13	
9613600784	SF1(PL) (ID=20/OD=32µin)	6"	1.5"	5.63	5.13	
9635000170	SF1(PL) (ID=20/OD=32µin)	6"	2.5"	5.63	5.13	
9613600783	SF1(PL) (ID=20/OD=32µin)	6"	1"	5.63	5.13	
9634001064	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.5"	2.00	2.00	
9634001065	SF4(PM) (ID=15EP/OD=32µin)	1"	0.5"	2.13	2.13	
9634001066	SF4(PM) (ID=15EP/OD=32µin)	1"	0.75"	2.13	2.13	
9634001067	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.5"	2.38	2.38	
9634001068	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.75"	2.38	2.38	

Item no.	Finish	Size		Dimension (Inch)		
		Inch	Inch	A	B	
B7RWWW						
9634001069	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1"	2.38	2.38	
9634001070	SF4(PM) (ID=15EP/OD=32µin)	2"	0.5"	2.88	2.63	
9634001071	SF4(PM) (ID=15EP/OD=32µin)	2"	0.75"	2.88	2.63	
9634001072	SF4(PM) (ID=15EP/OD=32µin)	2"	1"	2.88	2.63	
9634001073	SF4(PM) (ID=15EP/OD=32µin)	2"	1.5"	2.88	2.63	
9634001075	SF4(PM) (ID=15EP/OD=32µin)	2.5"	0.75"	3.13	2.88	
9634001074	SF4(PM) (ID=15EP/OD=32µin)	2.5"	0.5"	3.13	2.88	
9634001076	SF4(PM) (ID=15EP/OD=32µin)	2.5"	1"	3.13	2.88	
9634001077	SF4(PM) (ID=15EP/OD=32µin)	2.5"	1.5"	3.13	2.88	
9634001078	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2"	3.13	2.88	
9634001079	SF4(PM) (ID=15EP/OD=32µin)	3"	0.5"	3.38	3.13	
9634001084	SF4(PM) (ID=15EP/OD=32µin)	3"	2.5"	3.38	3.13	
9634001080	SF4(PM) (ID=15EP/OD=32µin)	3"	0.75"	3.38	3.13	
9634001081	SF4(PM) (ID=15EP/OD=32µin)	3"	1"	3.38	3.13	
9634001082	SF4(PM) (ID=15EP/OD=32µin)	3"	1.5"	3.38	3.13	
9634001083	SF4(PM) (ID=15EP/OD=32µin)	3"	2"	3.38	3.13	
9634001126	SF4(PM) (ID=15EP/OD=32µin)	4"	0.75"	4.13	3.63	
9634001130	SF4(PM) (ID=15EP/OD=32µin)	4"	2.5"	4.13	3.88	
9634001125	SF4(PM) (ID=15EP/OD=32µin)	4"	0.5"	4.13	3.63	
9634001127	SF4(PM) (ID=15EP/OD=32µin)	4"	1"	4.13	3.63	
9634001128	SF4(PM) (ID=15EP/OD=32µin)	4"	1.5"	4.13	3.63	
9634001129	SF4(PM) (ID=15EP/OD=32µin)	4"	2"	4.13	3.88	
9634001131	SF4(PM) (ID=15EP/OD=32µin)	4"	3"	4.13	3.88	
9634048321	SF4(PM) (ID=15EP/OD=32µin)	6"	3"	5.63	5.13	
9634048315	SF4(PM) (ID=15EP/OD=32µin)	6"	0.5"	5.63	5.13	
9634048316	SF4(PM) (ID=15EP/OD=32µin)	6"	0.75"	5.63	5.13	
9634001132	SF4(PM) (ID=15EP/OD=32µin)	6"	4"	5.63	5.13	

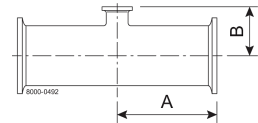
Tri-Clover BPE Reducing Tees Short

UltraPure fittings

ALSIS Code: 5036, 5037

Model: Reducing Tees Short
 Standard: ASME BPE
 Material: 316L

Item no.	Finish	Size		Dimension A		Dimension B		
		Inch	Inch	Inch	mm	Inch	mm	
B7RMPS								
9634003943	SF1(PL) (ID=20/OD=32µin)	0.75"	0.75"	2.50	63.50	1.00	25.40	
9634003944	SF1(PL) (ID=20/OD=32µin)	1"	1"	2.63	66.70	1.13	28.60	
9634003945	SF1(PL) (ID=20/OD=32µin)	1"	1"	2.63	66.70	1.13	28.60	
9634003946	SF1(PL) (ID=20/OD=32µin)	1.5"	1.5"	2.88	73.00	1.38	34.90	
9634003948	SF1(PL) (ID=20/OD=32µin)	1.5"	1.5"	2.88	73.00	1.38	34.90	
9634003947	SF1(PL) (ID=20/OD=32µin)	1.5"	1.5"	2.88	73.00	1.38	34.90	
9634003951	SF1(PL) (ID=20/OD=32µin)	2"	2"	3.38	85.70	1.63	41.30	
9634003952	SF1(PL) (ID=20/OD=32µin)	2"	2"	3.38	85.70	1.63	41.30	
9634003949	SF1(PL) (ID=20/OD=32µin)	2"	2"	3.38	85.70	1.63	41.30	
9634003950	SF1(PL) (ID=20/OD=32µin)	2"	2"	3.38	85.70	1.63	41.30	
9634003956	SF1(PL) (ID=20/OD=32µin)	2.5"	2.5"	3.63	92.10	1.88	47.60	
9634003953	SF1(PL) (ID=20/OD=32µin)	2.5"	2.5"	3.63	92.10	1.88	47.60	
9634003954	SF1(PL) (ID=20/OD=32µin)	2.5"	2.5"	3.63	92.10	1.88	47.60	
9634003955	SF1(PL) (ID=20/OD=32µin)	2.5"	2.5"	3.63	92.10	1.88	47.60	
9634003957	SF1(PL) (ID=20/OD=32µin)	2.5"	2.5"	3.63	92.10	1.88	47.60	
9634003958	SF1(PL) (ID=20/OD=32µin)	3"	3"	3.88	98.40	2.13	54.00	
9634003959	SF1(PL) (ID=20/OD=32µin)	3"	3"	3.88	98.40	2.13	54.00	
9634003960	SF1(PL) (ID=20/OD=32µin)	3"	3"	3.88	98.40	2.13	54.00	
9634003961	SF1(PL) (ID=20/OD=32µin)	3"	3"	3.88	98.40	2.13	54.00	
9634003962	SF1(PL) (ID=20/OD=32µin)	3"	3"	3.88	98.40	2.13	54.00	
9634003963	SF1(PL) (ID=20/OD=32µin)	3"	3"	3.88	98.40	2.13	54.00	
9634004021	SF1(PL) (ID=20/OD=32µin)	4"	4"	4.75	120.70	120.70	66.70	
9634004022	SF1(PL) (ID=20/OD=32µin)	4"	4"	4.75	120.70	120.70	66.70	
9634004023	SF1(PL) (ID=20/OD=32µin)	4"	4"	4.75	120.70	120.70	66.70	
9634004017	SF1(PL) (ID=20/OD=32µin)	4"	4"	4.75	120.70	120.70	66.70	
9634004018	SF1(PL) (ID=20/OD=32µin)	4"	4"	4.75	120.70	120.70	66.70	
9634004019	SF1(PL) (ID=20/OD=32µin)	4"	4"	4.75	120.70	120.70	66.70	
9634004020	SF1(PL) (ID=20/OD=32µin)	4"	4"	4.75	120.70	120.70	66.70	
9634050035	SF1(PL) (ID=20/OD=32µin)	6"	6"	7.13	181.00	181.00	95.30	
9634050038	SF1(PL) (ID=20/OD=32µin)	6"	6"	7.13	181.00	181.00	95.30	
9634050053	SF1(PL) (ID=20/OD=32µin)	6"	6"	7.13	181.00	181.00	95.30	
9634004024	SF1(PL) (ID=20/OD=32µin)	6"	6"	7.13	181.00	181.00	95.30	
9634003965	SF4(PM) (ID=15EP/OD=32µin)	1"	1"	2.63	66.70	1.13	28.60	
9634003966	SF4(PM) (ID=15EP/OD=32µin)	1"	1"	2.63	66.70	1.13	28.60	
9634003967	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1.5"	2.88	73.00	1.38	34.90	
9634003968	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1.5"	2.88	73.00	1.38	34.90	
9634003969	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1.5"	2.88	73.00	1.38	34.90	
9634003970	SF4(PM) (ID=15EP/OD=32µin)	2"	2"	3.38	85.70	1.63	41.30	
9634003971	SF4(PM) (ID=15EP/OD=32µin)	2"	2"	3.38	85.70	1.63	41.30	
9634003972	SF4(PM) (ID=15EP/OD=32µin)	2"	2"	3.38	85.70	1.63	41.30	
9634003973	SF4(PM) (ID=15EP/OD=32µin)	2"	2"	3.38	85.70	1.63	41.30	
9634003974	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2.5"	3.63	92.10	1.88	47.60	
9634003977	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2.5"	3.63	92.10	1.88	47.60	
9634003979	SF4(PM) (ID=15EP/OD=32µin)	3"	3"	3.88	98.40	2.13	54.00	
9634003982	SF4(PM) (ID=15EP/OD=32µin)	3"	3"	3.88	98.40	2.13	54.00	



Item no.	Finish	Size		Dimension A		Dimension B		
		Inch	Inch	Inch	mm	Inch	mm	
B7RWWS								
9634002343	SF1(PL) (ID=20/OD=32µin)	0.75"	0.75"	2.00	50.80	1.00	25.40	
9634002344	SF1(PL) (ID=20/OD=32µin)	1"	1"	2.13	54.00	1.13	28.60	
9634002345	SF1(PL) (ID=20/OD=32µin)	1"	1"	2.13	54.00	1.13	28.60	
9634002346	SF1(PL) (ID=20/OD=32µin)	1.5"	1.5"	2.38	60.30	1.38	34.90	
9634002347	SF1(PL) (ID=20/OD=32µin)	1.5"	1.5"	2.38	60.30	1.38	34.90	
9634002348	SF1(PL) (ID=20/OD=32µin)	1.5"	1.5"	2.38	60.30	1.38	34.90	
9634002349	SF1(PL) (ID=20/OD=32µin)	2"	2"	2.88	73.00	1.63	41.30	
9634002350	SF1(PL) (ID=20/OD=32µin)	2"	2"	2.88	73.00	1.63	41.30	
9634002351	SF1(PL) (ID=20/OD=32µin)	2"	2"	2.88	73.00	1.63	41.30	
9634002352	SF1(PL) (ID=20/OD=32µin)	2"	2"	2.88	73.00	1.63	41.30	
9634002356	SF1(PL) (ID=20/OD=32µin)	2.5"	2.5"	3.13	79.40	1.88	47.60	
9634002357	SF1(PL) (ID=20/OD=32µin)	2.5"	2.5"	3.13	79.40	1.88	47.60	
9634002355	SF1(PL) (ID=20/OD=32µin)	2.5"	2.5"	3.13	79.40	1.88	47.60	
9634002353	SF1(PL) (ID=20/OD=32µin)	2.5"	2.5"	3.13	79.40	1.88	47.60	
9634002354	SF1(PL) (ID=20/OD=32µin)	2.5"	2.5"	3.13	79.40	1.88	47.60	
9634002359	SF1(PL) (ID=20/OD=32µin)	3"	3"	3.38	85.70	2.13	54.00	
9634002360	SF1(PL) (ID=20/OD=32µin)	3"	3"	3.38	85.70	2.13	54.00	
9634002361	SF1(PL) (ID=20/OD=32µin)	3"	3"	3.38	85.70	2.13	54.00	
9634002362	SF1(PL) (ID=20/OD=32µin)	3"	3"	3.38	85.70	2.13	54.00	
9634002363	SF1(PL) (ID=20/OD=32µin)	3"	3"	3.38	85.70	2.13	54.00	
9634002358	SF1(PL) (ID=20/OD=32µin)	3"	3"	3.38	85.70	2.13	54.00	
9634002419	SF1(PL) (ID=20/OD=32µin)	4"	4"	4.13	104.80	2.63	66.70	
9634002420	SF1(PL) (ID=20/OD=32µin)	4"	4"	4.13	104.80	2.63	66.70	
9634002421	SF1(PL) (ID=20/OD=32µin)	4"	4"	4.13	104.80	2.63	66.70	
9634002417	SF1(PL) (ID=20/OD=32µin)	4"	4"	4.13	104.80	2.63	66.70	
9634002418	SF1(PL) (ID=20/OD=32µin)	4"	4"	4.13	104.80	2.63	66.70	
9634002422	SF1(PL) (ID=20/OD=32µin)	4"	4"	4.13	104.80	2.63	66.70	
9634002423	SF1(PL) (ID=20/OD=32µin)	4"	4"	4.13	104.80	2.63	66.70	
9634002364	SF4(PM) (ID=15EP/OD=32µin)	0.75"	0.75"	2.00	50.80	1.00	25.40	
9634002365	SF4(PM) (ID=15EP/OD=32µin)	1"	1"	2.13	54.00	1.13	28.60	
9634002366	SF4(PM) (ID=15EP/OD=32µin)	1"	1"	2.13	54.00	1.13	28.60	
9634002367	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1.5"	2.38	60.30	1.38	34.90	
9634002369	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1.5"	2.38	60.30	1.38	34.90	
9634002368	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1.5"	2.38	60.30	1.38	34.90	
9634002370	SF4(PM) (ID=15EP/OD=32µin)	2"	2"	2.88	73.00	1.63	41.30	
9634002372	SF4(PM) (ID=15EP/OD=32µin)	2"	2"	2.88	73.00	1.63	41.30	
9634002373	SF4(PM) (ID=15EP/OD=32µin)	2"	2"	2.88	73.00	1.63	41.30	
9634002371	SF4(PM) (ID=15EP/OD=32µin)	2"	2"	2.88	73.00	1.63	41.30	
9634002375	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2.5"	3.13	79.40	1.88	47.60	
9634002374	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2.5"	3.13	79.40	1.88	47.60	
9634002377	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2.5"	3.13	79.40	1.88	47.60	
9634002378	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2.5"	3.13	79.40	1.88	47.60	
9634002376	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2.5"	3.13	79.40	1.88	47.60	
9634002380	SF4(PM) (ID=15EP/OD=32µin)	3"	3"	3.38	85.70	2.13	54.00	
9634002381	SF4(PM) (ID=15EP/OD=32µin)	3"	3"	3.38	85.70	2.13	54.00	
9634002382	SF4(PM) (ID=15EP/OD=32µin)	3"	3"	3.38	85.70	2.13	54.00	
9634002379	SF4(PM) (ID=15EP/OD=32µin)	3"	3"	3.38	85.70	2.13	54.00	

Tri-Clover BPE Reducing Tees Short

UltraPure fittings

ALSIS Code: 5036, 5037

Model: Reducing Tees Short
 Standard: ASME BPE
 Material: 316L

Item no.	Finish	Size		Dimension A		Dimension B		
		Inch	Inch	Inch	mm	Inch	mm	
B7RWWMS								
9634002383	SF4(PM) (ID=15EP/OD=32µin)	3"	3"	3.38	85.70	2.13	54.00	
9634002384	SF4(PM) (ID=15EP/OD=32µin)	3"	3"	3.38	85.70	2.13	54.00	
9634002425	SF4(PM) (ID=15EP/OD=32µin)	4"	4"	4.13	104.80	2.63	66.70	
9634002426	SF4(PM) (ID=15EP/OD=32µin)	4"	4"	4.13	104.80	2.63	66.70	
9634002427	SF4(PM) (ID=15EP/OD=32µin)	4"	4"	4.13	104.80	2.63	66.70	
9634002428	SF4(PM) (ID=15EP/OD=32µin)	4"	4"	4.13	104.80	2.63	66.70	
9634002429	SF4(PM) (ID=15EP/OD=32µin)	4"	4"	4.13	104.80	2.63	66.70	
9634002430	SF4(PM) (ID=15EP/OD=32µin)	4"	4"	4.13	104.80	2.63	66.70	
9634002431	SF4(PM) (ID=15EP/OD=32µin)	4"	4"	4.13	104.80	2.63	66.70	

Item no.	Finish	Size		Dimension A		Dimension B		
		Inch	mm	Inch	mm	Inch	mm	
B7MP								
8010002853	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	2.38	60.33			
8010002856	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00	2.50	63.50			
9634003221	SF1(PL) (ID=20/OD=32µin)	1"	25.40	2.63	66.70			
9634003222	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	2.88	73.00			
9634003223	SF1(PL) (ID=20/OD=32µin)	2"	50.80	3.38	85.70			
9634003224	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	3.63	92.10			
9634003225	SF1(PL) (ID=20/OD=32µin)	3"	76.20	3.88	98.40			
9634003226	SF1(PL) (ID=20/OD=32µin)	4"	101.60	4.75	120.70			
9634003227	SF1(PL) (ID=20/OD=32µin)	6"	152.40	7.13	181.00			
8010002855	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	2.38	60.33			
8010002857	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	2.50	63.50			
9634003230	SF4(PM) (ID=15EP/OD=32µin)	1"	25.40	2.63	66.70			
9634003231	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	2.88	73.00			
9634003232	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	3.38	85.70			
9634003233	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	3.63	92.10			
9634003234	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	3.88	98.40			
9634003235	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	4.75	120.70			
B7MPS								
8010002826	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	2.38	60.33	1.00	25.40	
8010002828	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00	2.50	63.50	1.13	28.58	
9634043019	SF1(PL) (ID=20/OD=32µin)	1"	25.40	2.63	66.70	1.13	26.90	
9634043020	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	2.88	73.00	1.38	34.90	
9634043021	SF1(PL) (ID=20/OD=32µin)	2"	50.80	3.38	85.70	1.63	41.30	
9634043022	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	3.63	92.10	1.88	47.60	
9634043023	SF1(PL) (ID=20/OD=32µin)	3"	76.20	3.88	98.40	2.13	54.00	
9634043024	SF1(PL) (ID=20/OD=32µin)	4"	101.60	4.75	120.70	2.75	69.80	
8010002827	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	2.38	60.33	1.00	25.40	
8010002829	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	2.50	63.50	1.13	28.58	
9634043027	SF4(PM) (ID=15EP/OD=32µin)	1"	25.40	2.63	66.70	1.13	26.90	
9634043028	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	2.88	73.00	1.38	34.90	
9634043029	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	3.38	85.70	1.63	41.30	
9634043030	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	3.63	92.10	1.88	47.60	
9634043031	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	3.88	98.40	2.13	54.00	
9634043032	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	4.75	120.70	2.75	69.80	
9634050012	SF4(PM) (ID=15EP/OD=32µin)	6"	152.40	7.13	181.00	4.63	117.50	
B7WWW								
9634000619	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	1.88	47.60			
9634000620	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00	2.00	50.80			
9634000621	SF1(PL) (ID=20/OD=32µin)	1"	25.40	2.13	54.00			
9634000622	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	2.38	60.30			
9634000623	SF1(PL) (ID=20/OD=32µin)	2"	50.80	2.88	73.00			
9634000624	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	3.13	79.40			
9634000625	SF1(PL) (ID=20/OD=32µin)	3"	76.20	3.38	85.70			
9634000626	SF1(PL) (ID=20/OD=32µin)	4"	101.60	4.13	104.80			
9634000627	SF1(PL) (ID=20/OD=32µin)	6"	152.40	5.63	142.90			
9634000628	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	1.88	47.60			
9634000629	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	2.00	50.80			

ALSIS Code: 5036, 5037

Model: Tee
 Standard: ASME BPE
 Material: 316L

Item no.	Finish	Size		Dimension A		Dimension B		
		Inch	mm	Inch	mm	Inch	mm	
B7WWW								
9634000630	SF4(PM) (ID=15EP/OD=32µin)	1"	25.40	2.13	54.00			
9634000631	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	2.38	60.30			
9634000632	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	2.88	73.00			
9634000633	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	3.13	79.40			
9634000634	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	3.38	85.70			
9634000635	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	4.13	104.80			
9634000636	SF4(PM) (ID=15EP/OD=32µin)	6"	152.40	5.63	142.90			

Item no.	Finish	Size		Dimension A		Dimension B		
		Inch	mm	Inch	mm	Inch	mm	
B7WWMS								
9634002619	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	1.88	47.60	1.00	25.40	
9634002620	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00	2.00	50.80	1.13	28.60	
9634002621	SF1(PL) (ID=20/OD=32µin)	1"	25.40	2.13	54.00	1.13	28.60	
9634002622	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	2.38	60.30	1.38	34.90	
9634002623	SF1(PL) (ID=20/OD=32µin)	2"	50.80	2.88	73.00	1.63	41.30	
9634002624	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	3.13	79.40	1.88	47.60	
9634002625	SF1(PL) (ID=20/OD=32µin)	3"	76.20	3.38	85.70	2.13	54.00	
9634002626	SF1(PL) (ID=20/OD=32µin)	4"	101.60	4.13	104.80	2.75	69.90	
9634002627	SF1(PL) (ID=20/OD=32µin)	6"	152.40	5.63	142.90	3.75	95.30	
9634002628	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	1.88	47.60	1.00	25.40	
9634002629	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	2.00	50.80	1.13	28.60	
9634002630	SF4(PM) (ID=15EP/OD=32µin)	1"	25.40	2.13	54.00	1.13	28.60	
9634002631	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	2.38	60.30	1.38	34.90	
9634002632	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	2.88	73.00	1.63	41.30	
9634002633	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	3.13	79.40	1.88	47.60	
9634002634	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	3.38	85.70	2.13	54.00	
9634002635	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	4.13	104.80	2.75	69.90	
9634002636	SF4(PM) (ID=15EP/OD=32µin)	6"	152.40	5.63	142.90	3.75	95.30	

ALSIS Code: 5036

Model: Tee
 Standard: ASME BPE
 Material: 316L

Item no.	Finish	Size		Dimension A		Dimension B		
		Inch	mm	Inch	mm	Inch	mm	
B7WMSW								
9634037719	SF1(PL) (ID=20/OD=32µin)	0.5"	12.70	0.88	22.40	1.88	47.60	
9634037720	SF1(PL) (ID=20/OD=32µin)	0.75"	19.00	1.00	25.40	2.00	50.80	
9634037721	SF1(PL) (ID=20/OD=32µin)	1"	25.40	1.13	28.50	2.13	54.00	
9634037722	SF1(PL) (ID=20/OD=32µin)	1.5"	38.10	1.38	35.10	2.38	60.30	
9634037723	SF1(PL) (ID=20/OD=32µin)	2"	50.80	1.63	41.20	2.88	73.00	
9634037724	SF1(PL) (ID=20/OD=32µin)	2.5"	63.50	1.88	47.80	3.13	79.40	
9634037725	SF1(PL) (ID=20/OD=32µin)	3"	76.20	2.13	53.90	3.38	85.70	
9634037726	SF1(PL) (ID=20/OD=32µin)	4"	101.60	2.75	69.90	4.13	104.80	
9634037728	SF4(PM) (ID=15EP/OD=32µin)	0.5"	12.70	0.88	22.40	1.88	47.60	
9634037729	SF4(PM) (ID=15EP/OD=32µin)	0.75"	19.00	1.00	25.40	2.00	50.80	
9634037730	SF4(PM) (ID=15EP/OD=32µin)	1"	25.40	1.13	28.50	2.13	54.00	
9634037731	SF4(PM) (ID=15EP/OD=32µin)	1.5"	38.10	1.38	35.10	2.38	60.30	
9634037732	SF4(PM) (ID=15EP/OD=32µin)	2"	50.80	1.63	41.20	2.88	73.00	
9634037733	SF4(PM) (ID=15EP/OD=32µin)	2.5"	63.50	1.88	47.80	3.13	79.40	
9634037734	SF4(PM) (ID=15EP/OD=32µin)	3"	76.20	2.13	53.90	3.38	85.70	
9634037735	SF4(PM) (ID=15EP/OD=32µin)	4"	101.60	2.75	69.90	4.13	104.80	

Item no.	Finish	Size		Dimension (Inch)			
		Inch	Inch	A	B	C	
B2UMPBOA							
9634037402	SF1(PL) (ID=20/OD=32µin)	1"	0.75"	3.00	3.00	4.13	
9634037401	SF1(PL) (ID=20/OD=32µin)	1"	0.5"	3.00	3.00	4.13	
9634037405	SF1(PL) (ID=20/OD=32µin)	1.5"	1"	4.50	4.50	5.88	
9634037404	SF1(PL) (ID=20/OD=32µin)	1.5"	0.75"	4.50	4.50	5.88	
9634037403	SF1(PL) (ID=20/OD=32µin)	1.5"	0.5"	4.50	4.50	5.88	
9634037408	SF1(PL) (ID=20/OD=32µin)	2"	1"	5.00	6.00	6.63	
9634037406	SF1(PL) (ID=20/OD=32µin)	2"	0.5"	5.00	6.00	6.63	
9634037407	SF1(PL) (ID=20/OD=32µin)	2"	0.75"	5.00	6.00	6.63	
9634037409	SF1(PL) (ID=20/OD=32µin)	2"	1.5"	5.00	6.00	6.63	
9634037412	SF1(PL) (ID=20/OD=32µin)	2.5"	1"	5.75	7.50	7.63	
9634037413	SF1(PL) (ID=20/OD=32µin)	2.5"	1.5"	5.75	7.50	7.63	
9634037411	SF1(PL) (ID=20/OD=32µin)	2.5"	0.75"	5.75	7.50	7.63	
9634037414	SF1(PL) (ID=20/OD=32µin)	2.5"	2"	5.75	7.50	7.63	
9634037410	SF1(PL) (ID=20/OD=32µin)	2.5"	0.5"	5.75	7.50	7.63	
9634037415	SF1(PL) (ID=20/OD=32µin)	3"	0.5"	6.50	9.00	8.63	
9634037416	SF1(PL) (ID=20/OD=32µin)	3"	3"	6.50	9.00	8.63	
9634037418	SF1(PL) (ID=20/OD=32µin)	3"	1.5"	6.50	9.00	8.63	
9634037419	SF1(PL) (ID=20/OD=32µin)	3"	2"	6.50	9.00	8.63	
9634037420	SF1(PL) (ID=20/OD=32µin)	3"	2.5"	6.50	9.00	8.63	
9634037417	SF1(PL) (ID=20/OD=32µin)	3"	1"	6.50	9.00	8.63	
9634037423	SF1(PL) (ID=20/OD=32µin)	4"	1"	8.50	12.00	11.13	
9634037425	SF1(PL) (ID=20/OD=32µin)	4"	2"	8.50	12.00	11.13	
9634037424	SF1(PL) (ID=20/OD=32µin)	4"	1.5"	8.50	12.00	11.13	
9634037429	SF4(PM) (ID=15EP/OD=32µin)	1"	0.75"	3.00	3.00	4.13	
9634037428	SF4(PM) (ID=15EP/OD=32µin)	1"	0.5"	3.00	3.00	4.13	
9634037432	SF4(PM) (ID=15EP/OD=32µin)	1.5"	1"	4.50	4.50	5.88	
9634037430	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.5"	4.50	4.50	5.88	
9634037431	SF4(PM) (ID=15EP/OD=32µin)	1.5"	0.75"	4.50	4.50	5.88	
9634037435	SF4(PM) (ID=15EP/OD=32µin)	2"	1"	5.00	6.00	6.63	
9634037436	SF4(PM) (ID=15EP/OD=32µin)	2"	1.5"	5.00	6.00	6.63	
9634037433	SF4(PM) (ID=15EP/OD=32µin)	2"	0.5"	5.00	6.00	6.63	
9634037434	SF4(PM) (ID=15EP/OD=32µin)	2"	0.75"	5.00	6.00	6.63	
9634037440	SF4(PM) (ID=15EP/OD=32µin)	2.5"	1.5"	5.75	7.50	7.63	
9634037439	SF4(PM) (ID=15EP/OD=32µin)	2.5"	1"	5.75	7.50	7.63	
9634037441	SF4(PM) (ID=15EP/OD=32µin)	2.5"	2"	5.75	7.50	7.63	
9634037437	SF4(PM) (ID=15EP/OD=32µin)	2.5"	0.5"	5.75	7.50	7.63	
9634037438	SF4(PM) (ID=15EP/OD=32µin)	2.5"	0.75"	5.75	7.50	7.63	
9634037443	SF4(PM) (ID=15EP/OD=32µin)	3"	3"	6.50	9.00	8.63	
9634037444	SF4(PM) (ID=15EP/OD=32µin)	3"	1"	6.50	9.00	8.63	
9634037445	SF4(PM) (ID=15EP/OD=32µin)	3"	1.5"	6.50	9.00	8.63	
9634037446	SF4(PM) (ID=15EP/OD=32µin)	3"	2"	6.50	9.00	8.63	
9634037442	SF4(PM) (ID=15EP/OD=32µin)	3"	0.5"	6.50	9.00	8.63	

This page is intentionally left blank

UltraPure tubes

Ordering leaflet	
Tri-Clover BPE Tubes	244

Item no.	Size		Dimension OD/ID x t		
	Inch	mm	Inch	mm	
SF1(PL) (ID=20/OD=32µin)					
9613407101	0.5	12.7 mm	0.500/0.370 x 0.065	12.70/9.40x1.65	
9613407102	0.75	19.0 mm	0.750/0.620 x 0.065	19.00/15.75x1.65	
9613407103	1	25.4 mm	1.000/0.870 x 0.065	25.40/22.10x1.65	
9613407104	1.5	38.1 mm	1.500/1.370 x 0.065	38.10/34.80x1.65	
9613407105	2	50.8 mm	2.000/1.870 x 0.065	50.80/47.50x1.65	
9613407106	2.5	63.5 mm	2.500/2.370 x 0.065	63.50/60.2x1.65	
9613407107	3	76.2 mm	3.000/2.870 x 0.065	76.20/72.90x1.65	
9613407108	4	101.6 mm	4.000/3.834 x 0.083	101.60/97.38x2.11	
SF4(PM) (ID=15EP/OD=32µin)					
9613407111	0.5	12.7 mm	0.500/0.370 x 0.065	12.70/9.40x1.65	
9613407112	0.75	19.0 mm	0.750/0.620 x 0.065	19.00/15.75x1.65	
9613407113	1	25.4 mm	1.000/0.870 x 0.065	25.40/22.10x1.65	
9613407114	1.5	38.1 mm	1.500/1.370 x 0.065	38.10/34.80x1.65	
9613407115	2	50.8 mm	2.000/1.870 x 0.065	50.80/47.50x1.65	
9613407116	2.5	63.5 mm	2.500/2.370 x 0.065	63.50/60.2x1.65	
9613407117	3	76.2 mm	3.000/2.870 x 0.065	76.20/72.90x1.65	
9613407118	4	101.6 mm	4.000/3.834 x 0.083	101.60/97.38x2.11	

PPL prices per meter are updated monthly.
Please contact your Alfa Laval person for further information.

This page is intentionally left blank



This is Alfa Laval

Alfa Laval is active in the areas of Energy, Marine, and Food & Water, offering its expertise, products, and service to a wide range of industries in some 100 countries. The company is committed to optimizing processes, creating responsible growth, and driving progress – always going the extra mile to support customers in achieving their business goals and sustainability targets.

Alfa Laval's innovative technologies are dedicated to purifying, refining, and reusing materials, promoting more responsible use of natural resources. They contribute to improved energy efficiency and heat recovery, better water treatment, and reduced emissions. Thereby, Alfa Laval is not only accelerating success for its customers, but also for people and the planet. Making the world better, every day. It's all about Advancing better™.

How to contact Alfa Laval

Contact details for all countries are continually updated on our web site. Please visit www.alfalaval.com to access the information.

Distributed by:

NELSON JAMESON
INC.

800-826-8302 nelsonjameson.com