

NOXTING



ISO

TUBES & FITTINGS



The environment, health and safety are critical topics in today's society and in order to protect and provide confidence to the life sciences, food and beverage consumers, a high level of professional knowledge and competence is required. With decades of experience in designing and manufacturing hygienic products, NOXTING has created and introduced the 'Ultra' sanitary product line with optimized and improved fluid processing as well as enhanced CIP cleaning capabilities specifically focussing on our clients product safety.

Our products are certified in accordance with all relevant and latest edition industry standards, such as ASME BPE, EN, BS, ANSI, DIN, 3A, ISO and many others. We use only the highest quality imported stainless steel with special emphasis on ferrite levels and corrosion resistance, in accordance with BS EN ISO 9001:2000

We use original sealing materials, such as EPDM, PTFE, TFM and various other polymers, supplied from top brand European manufacturers.

NOXTING is able to supply a wide and varied range of products in accordance with the following standards: DIN, ISO, BS and ASME BPE, plus we can provide products conforming to various other standards on demand and as required.



Generally, Clamp Liners, blanks and adapters are produced by CNC turning from stainless steel bar, in AISI 316L 1.4404 material. The material conforms typically to ASTM A182 and A276 and for specials requiring boiler grade material, these are produced from ASTM A479. Certification also references the NACE MR0175-03 standard in most cases. Generally low sulphur grades of stainless steel are used for good welding characteristics. Our standard range of clamp fittings covers sizes from 4 mm to 12" (300mm) and encompasses the following internationally recognised standards.

Standards

- ASME BPE-2002
- BS 4825 Part 3 / ISO 2037
- DIN 32676
- DIN 11864-3
- 3A Standard
- ISO 2852 and SMS 3017A
- SMS 3008
- ISO 1127 Schedule Pipe Size
- BS 6362 Schedule Pipe Size
- ASTM A312 Schedule Pipe

Materials

A wide range of non-standard material is also available for the Liners, adapters and blanks, in addition to the standard AISI 316L stainless steel. These include:

- AISI 316Ti Wn 1.4571
- AISI 316L (BN-2) Wn 1.4435 with low ferrite
- 6Mo materials & AL6-XN, 904L & 254 SMO
- Duplex alloys including SAF2507 UNS 32750
- Hastelloy C22 and C276
- Nickel Alloys such as Monel 400
- Titanium
- Nylon, ABS and Polypropylene Aluminium
- Aluminium

Surface Finish

The standard internal surface finish for clamp Liners is 0.8 - 1.0 μm Ra, with enhanced finishes of 0.38 μm Ra or better available on request. Electro-polishing is also available to order.

Certification

Material traceability is available with EN 10204 3.1 certificates on all clamp Liners and blanks, while a certificate of conformity is offered for the clamps and seals.

Compatibility

Where the environment is deemed aggressive to either the seal or the clamp union, please provide details of the media and operating conditions including pressure and temperature. Our technical department will assist you in the selection of the most appropriate material and clamp system. See our technical information document for selection data relating to stainless steel and sealing materials.

High purity raw materials

The product made of imported stainless steel with high purity ASTM 316L, BS EN ISO 9001:2000.

Element	C	Si	Mn	P	S	Cr	Ni	Mo
%	≤0.030	≤1.00	≤2.00	≤0.035	0.005 - 0.017	16.0 - 18.0	10.0-14.0	2.0-3.0

Product standard

UNS	Seamless pipe and Welding pipe	Forge Piece
S31603	ASTM A270 ASTM A270M	ASTM A743 EN 1.4409

Surface finishing

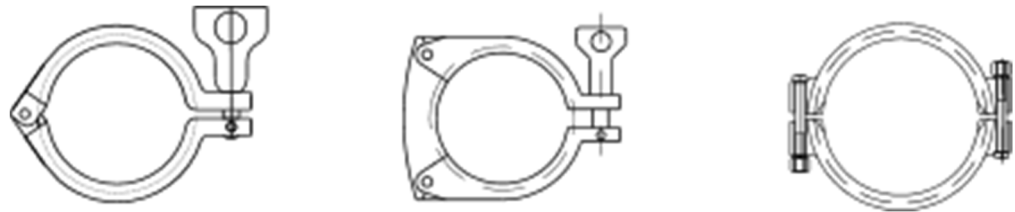
The original MP and EP surface treatment technology, inner surface roughness of BPE series from a 0.5 µm to Ra 0.375µm, outer surface roughness of BPE series always Ra 0.8 µm. The minimum value of electrolytic polishing can reach Ra 0.12.

Polishing Code	The inner surface (ID)			The outer surface (OD)			ASME BPE Surface processing code
	The maximum surface cleanliness Ra		Polishing method	The maximum surface cleanliness Ra		Polishing method	
	µ-in	µ-m		µ-in	µ-m		
HG	20	0.5	Mechanically Polished-MP	32	0.8	Mechanically Polished-MP	SF1
4G	15	0.375	Mechanically Polished-MP & Electro-polished-EP	32	0.8	Mechanically Polished-MP	SF4

CODING / not all codec combinations are available /

Code	A	1	3	2	2	0	0	8	0	0	0	2	4	2																																																																																													
Position	1	2	2	3	4	5	5	5	6	6	6	7	8	9																																																																																													
Position 1 > Product	A	Components				B	Valve				C	Spare parts																																																																																															
Position 2 > Type	0 0	Pipe				1 0	Clamp 13MHH3				2 0	Flange																																																																																															
	0 1	Bend 90°				1 1	Clamp TC				2 1	Tank Flange NA																																																																																															
	0 2	Bend 45°				1 2	Clamp 13MHP				2 2	Cross																																																																																															
	0 3	Tee				1 3	Clamp Ferrule				2 3	O-ring																																																																																															
	0 4	Tee reducer				1 4	Blind Clamp				2 4	Union																																																																																															
	0 5	Cocentric reducer				1 5	U Bend																																																																																																				
	0 6	Excentric reducer				1 6	Liner																																																																																																				
	0 7	Seal clamp				1 7	Male																																																																																																				
	0 8	Clamp 13MHH-O				1 8	Nut																																																																																																				
	0 9	Clamp 13MHH-T				1 9	Nut Blind / Blind																																																																																																				
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Position 5 and 6 > Dimension	<table border="1"> <thead> <tr> <th colspan="3">DIN</th> <th colspan="3">ASME, 3A</th> <th colspan="3">ISO</th> </tr> </thead> <tbody> <tr> <td>0 0 8</td> <td>8</td> <td>0 0 8</td> <td>1/4"</td> <td></td> <td></td> </tr> <tr> <td>0 1 0</td> <td>10</td> <td>0 1 0</td> <td>3/8"</td> <td></td> <td></td> </tr> <tr> <td>0 1 5</td> <td>15</td> <td>0 1 5</td> <td>1/2"</td> <td></td> <td></td> </tr> <tr> <td>0 2 0</td> <td>20</td> <td>0 2 0</td> <td>3/4"</td> <td></td> <td></td> </tr> <tr> <td>0 2 5</td> <td>25</td> <td>0 2 5</td> <td>1"</td> <td>0 2 5</td> <td>25</td> </tr> <tr> <td>0 3 2</td> <td>32</td> <td>0 3 2</td> <td>1 1/4"</td> <td>0 3 2</td> <td>32</td> </tr> <tr> <td>0 4 0</td> <td>40</td> <td>0 4 0</td> <td>1 1/2"</td> <td>0 4 0</td> <td>40</td> </tr> <tr> <td>0 5 0</td> <td>50</td> <td>0 5 0</td> <td>2"</td> <td>0 5 0</td> <td>50</td> </tr> <tr> <td>0 6 5</td> <td>65</td> <td>0 6 5</td> <td>2 1/2"</td> <td>0 6 5</td> <td>65</td> </tr> <tr> <td>0 8 0</td> <td>80</td> <td>0 8 0</td> <td>3"</td> <td>0 8 0</td> <td>80</td> </tr> <tr> <td>1 0 0</td> <td>100</td> <td>1 0 0</td> <td>4"</td> <td>1 0 0</td> <td>100</td> </tr> <tr> <td>1 2 5</td> <td>125</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 5 0</td> <td>150</td> <td>1 5 0</td> <td>6"</td> <td></td> <td></td> </tr> <tr> <td>2 0 0</td> <td>200</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>														DIN			ASME, 3A			ISO			0 0 8	8	0 0 8	1/4"			0 1 0	10	0 1 0	3/8"			0 1 5	15	0 1 5	1/2"			0 2 0	20	0 2 0	3/4"			0 2 5	25	0 2 5	1"	0 2 5	25	0 3 2	32	0 3 2	1 1/4"	0 3 2	32	0 4 0	40	0 4 0	1 1/2"	0 4 0	40	0 5 0	50	0 5 0	2"	0 5 0	50	0 6 5	65	0 6 5	2 1/2"	0 6 5	65	0 8 0	80	0 8 0	3"	0 8 0	80	1 0 0	100	1 0 0	4"	1 0 0	100	1 2 5	125					1 5 0	150	1 5 0	6"			2 0 0	200				
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Position 7 > Material	1	AISI 304																																																																																																									
	2	AISI 316 L																																																																																																									
	3	ISO.4487																																																																																																									
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	2	SF1				5	Extra																																																																																																				
	3	0,2																																																																																																									
Position 9 > Polishing	0	without																																																																																																									
	1	Mechanically																																																																																																									
	2	Electropolish																																																																																																									

Hygienic Clamp: Rated Internal Working Pressure

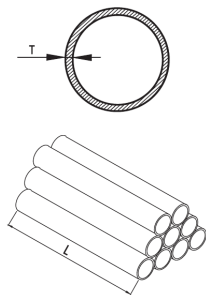


Nom.Size	13MHH Clamp				13MHH3 Clamp				13MHP Clamp			
	70°F / 21°C		250°F / 121°C		70°F / 21°C		250°F / 121°C		70°F / 21°C		250°F / 121°C	
	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar
1/2" & 3/4"	1500	103	1200	83					1500	103	1200	83
1" & 1 1/2"	500	34	250	17	600	41	300	21	1500	103	1200	83
2"	450	31	250	17	550	38	275	19	1000	69	800	55
2 1/2 "	400	28	200	14	450	31	225	16	1000	69	800	55
3"	350	24	150	10	350	24	160	11	1000	69	800	55
4"	200	14	125	9	250	17	150	10	1000	69	800	55
5 "	175	12	100	7								
6 "	150	10	75	5								
8 "	100	7	50	3								
10 "	40	3	30	2								

Material features of the union ring seal

	EPDM	NBR	Viton	Silicone	Teflon
Temperature Range	-48 ÷ 135°C -55 ÷ 275°F	-40 ÷ 120°C -40 ÷ 248°F	-29 ÷ 204°C -20 ÷ 400°F	-62 ÷ 232°C -80 ÷ 450°F	-40 ÷ 232°C -40 ÷ 450°F
Acid Resistance	Good-Excellent	Good	Good	Good	Good-Excellent
Alkali Resistance	Good -Excellent	Good	Poor-Good	Poor-Fair	Good -Excellent
Gasoline Resistance	Poor-Fair	Good-Excellent	Good -Excellent	Good	Good-Excellent
Diesel Resistance	Good	Good	Good-Excellent	Good	Good-Excellent
Abrasion Resistance	Good -Excellent	Good	Good	Good-Excellent	Good- Excellent
Compression Set	Fair	Good	Good-Excellent	Good-Excellent	Fair

Tube



Size	L / mm /	T / mm /	Order No.
25.0	6 100	1.2	A00030250002XX
38.0	6 100	1.2	A00030400002XX
51.0	6 100	1.2	A00030500002XX
63.5	6 100	1.6	A00030650002XX
76.1	6 100	1.6	A00030800002XX
101.6	6 100	2.0	A00031000002XX

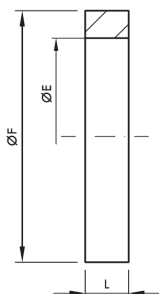
Gasket - Clamp



Size	F / mm /	E / mm /	Order No.
25	50.5	22.8	C0703025000X00
38	50.5	35.8	C0703040000X00
51	64.0	48.8	C0703050000X00
63	77.5	60.5	C0703065000X00
76	91.0	73.1	C0703080000X00
101	119.0	97.8	C0703100000X00

Order: X > E=EPDM, T=Teflon, P=PTFE, N=NBR, S=Silicone

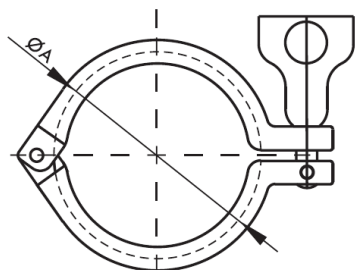
Seal Ring



Size	F / mm /	E / mm /	L / mm /	Order No.
25	32.0	25.0	5.5	C2303025000X00
38	48.0	38.0	5.5	C2303040000X00
51	61.0	51.0	5.5	C2303050000X00
63	73.5	63.5	5.5	C2303065000X00
76	86.0	76.0	5.5	C2303080000X00
101	114.0	101.6	5.5	C2303100000X00

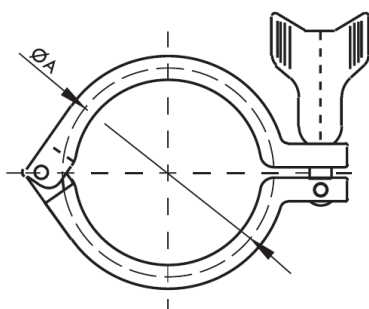
Order: X > E=EPDM, T=Teflon, P=PTFE, N=NBR, S=Silicone

Clamp 13 MHH-0



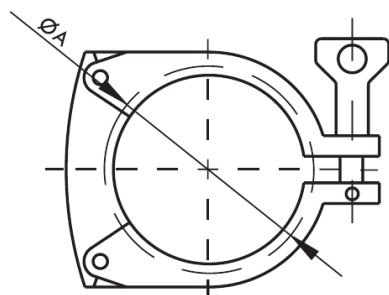
Size	A / mm /	Iso	Order No.
1"	53.9	25	A0800040000100
1 1/2"	53.9	38	A0800040000100
2"	67.4	51	A0800050000100
2 1/2"	80.9	63	A0800065000100
3"	94.4	76	A0800080000100
4"	122.4	101	A0800100000100

Clamp 13 MHH-T



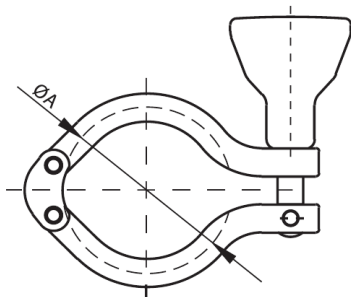
Size	A / mm /	Iso	Order No.
1"	53.9	25	A0900040000100
1 1/2"	53.9	38	A0900040000100
2"	67.4	51	A0900050000100
2 1/2"	80.9	63	A0900065000100
3"	94.4	76	A0900080000100
4"	122.4	101	A0900100000100

Clamp 13 MHH3



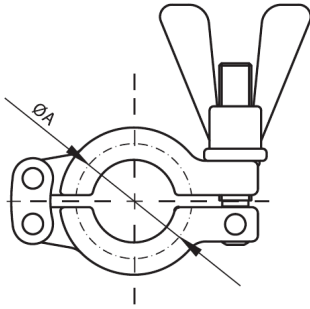
Size	A / mm /	Iso	Order No.
1"	53.9	25	A1000040000100
1 1/2"	53.9	38	A1000040000100
2"	67.4	51	A1000050000100
2 1/2"	80.9	63	A1000065000100
3"	94.4	76	A1000080000100
4"	122.4	101	A1000100000100

Clamp TC - T



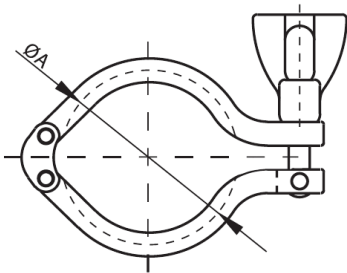
Size	A / mm /	Iso	Order No.
1"	53.9	25	A1100040000100
1 1/2"	53.9	38	A1100040000100
2"	67.4	51	A1100050000100
2 1/2"	80.9	63	A1100065000100
3"	94.4	76	A1100080000100
4"	122.4	101	A1100100000100

Clamp TC - V



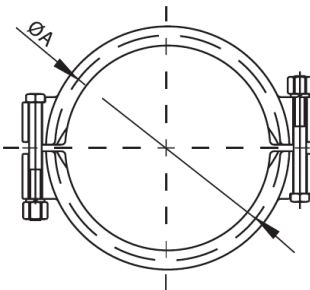
Size	A / mm /	Iso	Order No.
1"	53.9	25	A1110040000100
1 1/2"	53.9	38	A1110040000100
2"	67.4	51	A1110050000100
2 1/2"	80.9	63	A1110065000100
3"	94.4	76	A1110080000100
4"	122.4	101	A1110100000100

Clamp TC - X



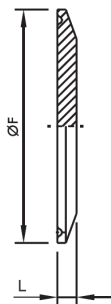
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1"	53.9	25	A1120040000100
1 1/2"	53.9	38	A1120040000100
2"	67.4	51	A1120050000100
2 1/2"	80.9	63	A1120065000100
3"	94.4	76	A1120080000100
4"	122.4	101	A1120100000100

Clamp 13MHP - High Pressure



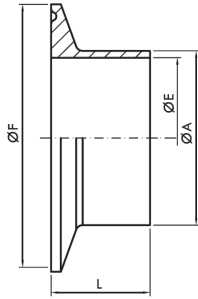
Size	A / mm /	Iso	Order No.
1"	52.0	25	A1200025000100
1 1/2"	52.0	38	A1200040000100
2"	65.5	51	A1200050000100
2 1/2"	79.0	63	A1200065000100
3"	92.5	76	A1200080000100
4"	158.8	101	A1200100000100

Clamp Blind



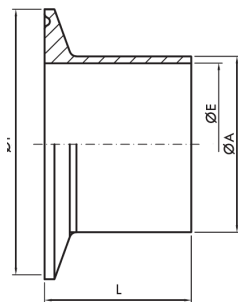
Size	A / mm /	B / mm /	Order No.
25	50.4	6.4	A1400040000100
38	50.4	6.4	A1400040000100
51	63.9	6.4	A1400050000100
63	77.5	6.4	A1400065000100
76	90.9	6.4	A1400080000100
101	119.0	7.9	A1400100000100

Clamp Liner Mini



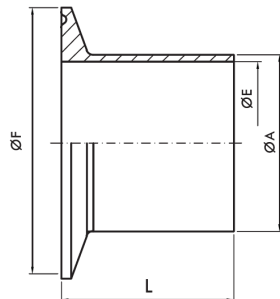
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25	22.6	50.5	12.7	A132302500002xx
38	35.6	50.5	12.7	A132304000002xx
51	48.6	64.0	12.7	A132305000002xx
63	60.2	77.5	12.7	A132306500002xx
76	72.9	90.9	12.7	A132308000002xx
101	97.4	118.9	15.8	A132310000002xx

Clamp Liner Short



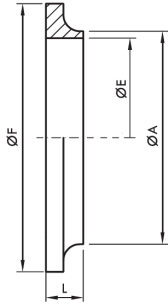
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25	22.6	50.5	21.5	A131302500002xx
38	35.6	50.5	21.5	A131304000002xx
51	48.6	64.0	21.5	A131305000002xx
63	60.2	77.5	21.5	A131306500002xx
76	72.9	90.9	21.5	A131308000002xx
101	97.4	118.9	21.5	A131310000002xx

Clamp Liner



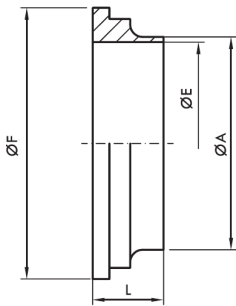
Size	A / mm /	B / mm /	C / mm /	Order No.
25	22.6	50.5	44.5	A130302500002xx
38	35.6	50.5	44.5	A130304000002xx
51	48.6	64.0	57.2	A130305000002xx
63	60.2	77.5	57.2	A130306500002xx
76	72.9	90.9	57.2	A130308000002xx
101	97.4	118.9	57.2	A130310000002xx

Liner Short



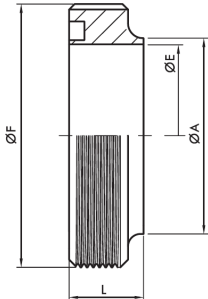
Size	E / mm /	F / mm /	L / mm /	Order No.
25	22.6	35.5	7.5	A161302500002xx
38	29.6	43.5	8.0	A161304000002xx
51	35.6	55.0	9.0	A161305000002xx
63	48.6	65.0	9.0	A161306500002xx
76	60.3	80.0	9.0	A161308000002xx
101	72.9	93.0	10.0	A161310000002xx

Liner



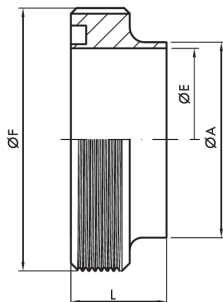
Size	E / mm /	F / mm /	L / mm /	Order No.
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38	29.6	43.5	16.0	A160304000002xx
51	35.6	55.0	17.0	A160305000002xx
63	48.6	65.0	17.0	A160306500002xx
76	60.3	80.0	19.0	A160308000002xx
101	72.9	93.0	19.0	A160310000002xx

Treaded Male Short



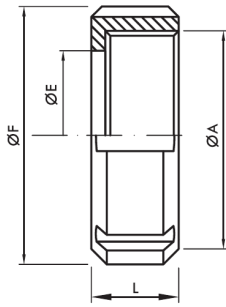
Size	E / mm /	F / mm /	L / mm /	Order No.
25	22.5	RD 40 x 1/6	15.0	A171302500002xx
38	29.5	RD 48 x 1/6	18.0	A171304000002xx
51	35.5	RD 70 x 1/6	20.0	A171305000002xx
63	48.5	RD 85 x 1/6	24.0	A171306500002xx
76	60.5	RD 98 x 1/6	24.0	A171308000002xx
101	72.9	RD 132 x 1/6	35.0	A171310000002xx

Treaded Male



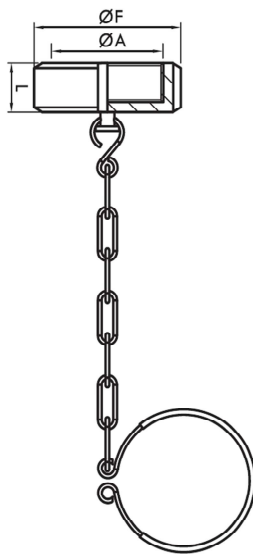
Size	E / mm /	F / mm /	L / mm /	Order No.
25	22.5	RD 40 x 1/6	19.0	A170302500002xx
38	29.5	RD 48 x 1/6	23.0	A170304000002xx
51	35.5	RD 70 x 1/6	23.0	A170305000002xx
63	48.5	RD 85 x 1/6	27.0	A170306500002xx
76	60.5	RD 98 x 1/6	27.0	A170308000002xx
101	72.9	RD 132 x 1/6	35.0	A170310000002xx

Nut



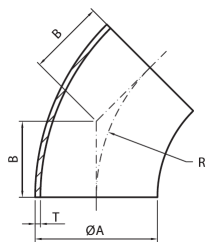
Size	A	E / mm /	L / mm /	Order No.
25	RD 40 x 1/6	32.0	19.0	A180302500002xx
38	RD 48 x 1/6	48.0	23.0	A180304000002xx
51	RD 70 x 1/6	60.5	24.0	A180305000002xx
63	RD 85 x 1/6	74.0	28.0	A180306500002xx
76	RD 98 x 1/6	87.0	30.0	A180308000002xx
101	RD 132 x 1/6	113.0	31.0	A180310000002xx

Nut with chain



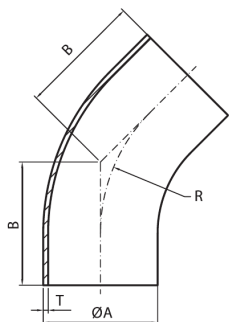
Size	A	F / mm /	L / mm /	Order No.
25	RD 40 x 1/6	51.0	18.0	A181302500002xx
38	RD 48 x 1/6	74.0	20.0	A181304000002xx
51	RD 70 x 1/6	84.5	20.0	A181305000002xx
63	RD 85 x 1/6	100.0	23.0	A181306500002xx
76	RD 98 x 1/6	114.0	23.0	A181308000002xx
101	RD 132 x 1/6	154.0	31.0	A181310000002xx

Bend 45° Short - Welded



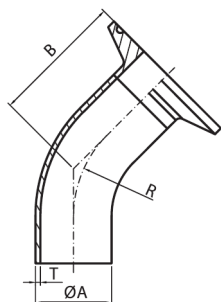
Size	AxT / mm /	B / mm /	R / mm /	Order No.
25	25.0 x 1.2	15.33	37.0	A020302500002xx
38	38.0 x 1.2	21.54	38.0	A020304000002xx
51	51.0 x 1.2	31.10	51.0	A020305000002xx
63	63.5 x 1.2	37.28	90.0	A020306500002xx
76	76.1 x 1.2	39.35	95.0	A020308000002xx
101	101.0 x 2.0	62.13	110.0	A020310000002xx

Bend 45° Long - Welded



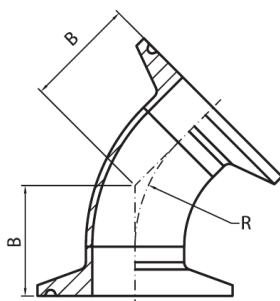
Size	AxT / mm /	B / mm /	R / mm /	Order No.
25	25.0 x 1.2	55.0	32.0	A021302500002xx
38	38.0 x 1.2	70.0	45.0	A021304000002xx
51	51.0 x 1.2	82.0	58.0	A021305000002xx
63	63.5 x 1.2	105.0	70.0	A021306500002xx
76	76.1 x 1.2	110.0	76.0	A021308000002xx
101	101.0 x 2.0	150.0	110.0	A021310000002xx

Bend 45° - Welded/Clamp



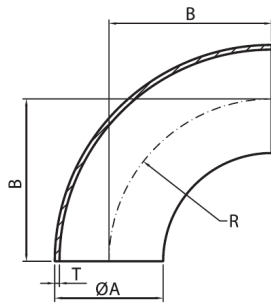
Size	AxT / mm /	B / mm /	R / mm /	Order No.
25	25.0 x 1.2	39.7	37.0	A022302500002xx
38	38.0 x 1.2	45.7	38.0	A022304000002xx
51	51.0 x 1.2	49.7	51.0	A022305000002xx
63	63.5 x 1.2	50.7	90.0	A022306500002xx
76	76.1 x 1.2	52.7	95.0	A022308000002xx
101	101.0 x 2.0	55.8	110.0	A022310000002xx

Bend 45° - Clamp



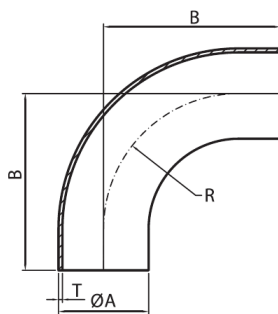
Size	B / mm /	R / mm /	Order No.
25	35.8	37.0	A023302500002xx
38	43.0	38.0	A023304000002xx
51	52.6	51.0	A023305000002xx
63	58.8	90.0	A023306500002xx
76	60.9	95.0	A023308000002xx
101	83.6	110.0	A023310000002xx

Bend 90° Short - Welded



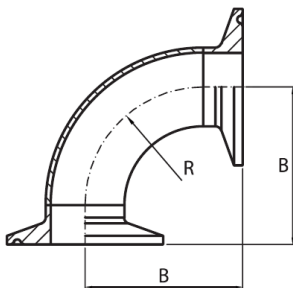
Size	AxT / mm /	B / mm /	R / mm /	Order No.
25	25.0 x 1.2	37.0	37.0	A010302500002xx
38	38.0 x 1.2	52.0	52.0	A010304000002xx
51	51.0 x 1.2	75.0	75.0	A010305000002xx
63	63.5 x 1.2	90.0	90.0	A010306500002xx
76	76.1 x 1.2	95.0	95.0	A010308000002xx
101	101.0 x 2.0	150.0	150.0	A010310000002xx

Bend 90° Long - Welded



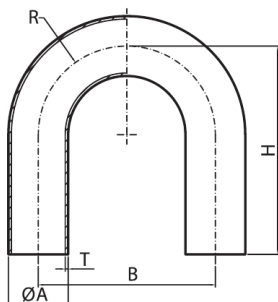
Size	AxT / mm /	B / mm /	R / mm /	Order No.
25	25.0 x 1.2	55.0	32.0	A011302500002xx
38	38.0 x 1.2	70.0	45.0	A011304000002xx
51	51.0 x 1.2	82.0	58.0	A011305000002xx
63	63.5 x 1.2	105.0	70.0	A011306500002xx
76	76.1 x 1.2	110.0	76.0	A011308000002xx
101	101.0 x 2.0	150.0	110.0	A011310000002xx

Bend 90° - Clamp



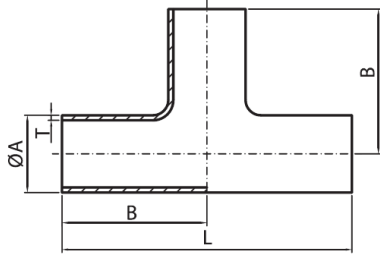
Size	B / mm /	R / mm /	Order No.
25	49.7	37.0	A013302500002xx
38	64.7	52.0	A013304000002xx
51	87.8	75.0	A013305000002xx
63	102.7	90.0	A013306500002xx
76	107.7	95.0	A013308000002xx
101	165.8	150.0	A013310000002xx

Bend 180° - welded



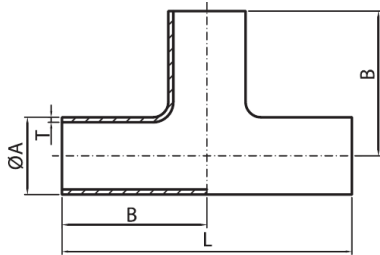
Size	B / mm /	R / mm /	H / mm /	Order No.
25	74.0	37.0	96.5	A150302500002xx
38	104.0	52.0	118.0	A150304000002xx
51	150.0	75.0	147.5	A150305000002xx
63	180.0	90.0	168.8	A150306500002xx
76	190.0	95.0	180.0	A150308000002xx

Tee Short - Welded



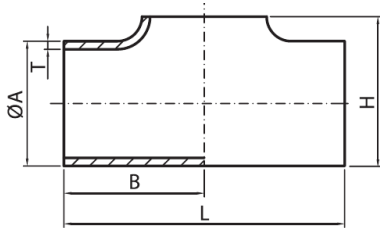
Size	AxT / mm /	B / mm /	L / mm /	Order No.
25	25.0 x 1.2	28.6	57.2	A030302500002xx
38	38.0 x 1.2	42.1	84.2	A030304000002xx
51	51.0 x 1.2	52.4	104.8	A030305000002xx
63	63.5 x 1.2	59.4	119.2	A030306500002xx
76	76.1 x 1.2	65.9	131.8	A030308000002xx
101	101.0 x 2.0	87.4	174.8	A030310000002xx

Tee Long - Welded



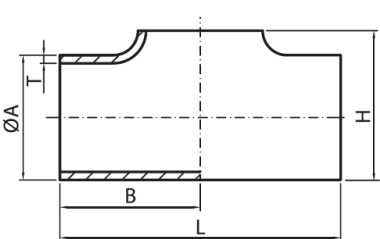
Size	AxT / mm /	B / mm /	L / mm /	Order No.
25	25.0 x 1.2	55.0	110.0	A031302500002xx
38	38.0 x 1.2	70.0	140.0	A031304000002xx
51	51.0 x 1.2	82.0	164.0	A031305000002xx
63	63.5 x 1.2	105.0	210.0	A031306500002xx
76	76.1 x 1.2	110.0	220.0	A031308000002xx
101	101.0 x 2.0	150.0	300.0	A031310000002xx

Tee Short Outlet - Welded



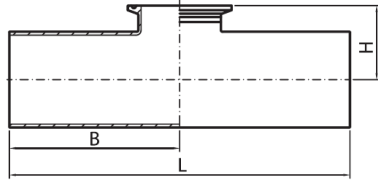
Size	B / mm /	H / mm /	L / mm /	Order No.
25	28.6	26.5	57.2	A032302500002xx
38	42.1	40.0	84.2	A032304000002xx
51	52.4	54.0	104.8	A032305000002xx
63	59.4	67.1	119.2	A032306500002xx
76	65.9	79.5	131.8	A032308000002xx
101	87.4	105.5	174.8	A032310000002xx

Tee Long Outlet - Welded



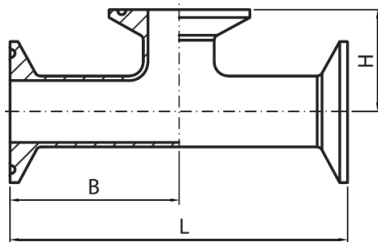
Size	B / mm /	H / mm /	L / mm /	Order No.
25	55.0	26.5	110.0	A033302500002xx
38	70.0	40.0	140.0	A033304000002xx
51	82.0	54.0	164.0	A033305000002xx
63	105.0	67.1	210.0	A033306500002xx
76	110.0	79.5	220.0	A033308000002xx
101	150.0	105.5	300.0	A033310000002xx

Tee – Welded/Clamp



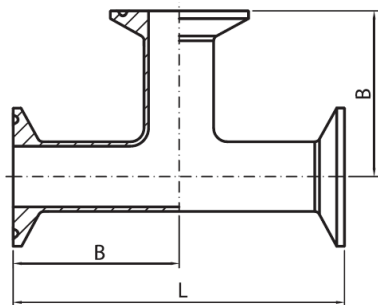
Size	B / mm /	H / mm /	L / mm /	Order No.
25	55.0	26.5	110.0	A034302500002xx
38	70.0	40.0	140.0	A034304000002xx
51	82.0	54.0	164.0	A034305000002xx
63	105.0	67.1	210.0	A034306500002xx
76	110.0	79.5	220.0	A034308000002xx
101	150.0	105.5	300.0	A034310000002xx

Tee Short - Clamp



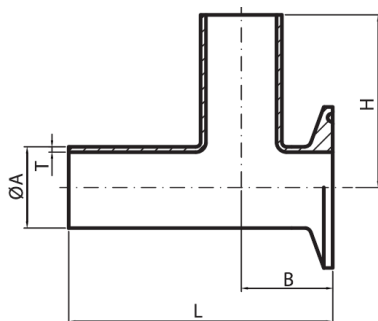
Size	B / mm /	H / mm /	L / mm /	Order No.
25	67.7	26.7	135.4	A035302500002xx
38	82.7	33.7	165.4	A035304000002xx
51	94.7	41.2	189.4	A035305000002xx
63	117.7	48.1	235.4	A035306500002xx
76	122.7	54.1	245.4	A035308000002xx
101	165.8	70.5	331.6	A035310000002xx

Tee - Clamp



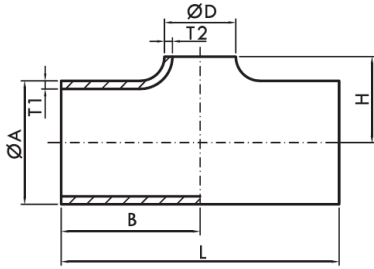
Size	B / mm /	L / mm /	Order No.
25	67.7	135.4	A036302500002xx
38	82.7	165.4	A036304000002xx
51	94.7	189.4	A036305000002xx
63	117.7	235.4	A036306500002xx
76	122.7	245.4	A036308000002xx
101	165.8	331.6	A036310000002xx

Tee Instrument - Welded/Clamp



Size	B / mm /	H / mm /	L / mm /	Order No.
25	28.6	54.0	82.6	A037302500002xx
38	34.9	60.3	95.2	A037304000002xx
51	41.3	73.0	114.3	A037305000002xx
63	47.6	79.4	127.0	A037306500002xx
76	54.0	85.7	139.7	A037308000002xx
101	69.9	104.8	174.7	A037310000002xx

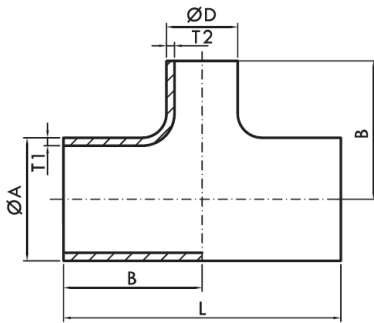
Tee Reducing Short - Welded



Size	AxT1 / mm /	DxT2 / mm /	H / mm /	Order No.
38 x 25	70.0	165.4	21.00	A04130400252xx
51 x 25	82.0	189.4	28.50	A04130500252xx
51 x 38	82.0	189.4	28.50	A04130500402xx
63 x 25	105.0	235.4	34.50	A04130650252xx
63 x 38	105.0	235.4	34.85	A04130650402xx
63 x 51	105.0	235.4	40.50	A04130650502xx
76 x 25	110.0	245.4	41.00	A04130800252xx
76 x 38	110.0	245.4	41.00	A04130800402xx
76 x 51	110.0	245.4	41.00	A04130800502xx
76 x 63	110.0	245.4	54.70	A04130800652xx
101 x 25	110.0	331.6	54.70	A04131000252xx
101 x 38	150.0	331.6	54.70	A04131000402xx
101 x 51	150.0	331.6	54.70	A04131000502xx
101 x 63	150.0	331.6	54.70	A04131000652xx
101 x 76	150.0	331.6	54.70	A04131000802xx

L / mm /: same size as Automatic Reducer Tee - Longh

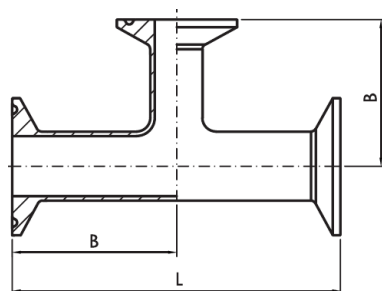
Tee Reducing Long - Welded



Size	AxT1 / mm /	DxT2 / mm /	L / mm /	Order No.
38 x 25	38.0 x 1.2	25.0 x 1.2	164.0	A04030400252xx
51 x 25	51.0 x 1.2	25.0 x 1.2	164.0	A04030500252xx
51 x 38	51.0 x 1.2	38.0 x 1.2	210.0	A04030500402xx
63 x 25	63.5 x 1.6	25.0 x 1.2	210.0	A04030650252xx
63 x 38	63.5 x 1.6	38.0 x 1.2	210.0	A04030650402xx
63 x 51	63.5 x 1.6	51.0 x 1.2	220.0	A04030650502xx
76 x 25	76.1 x 1.6	25.0 x 1.2	220.0	A04030800252xx
76 x 38	76.1 x 1.6	38.0 x 1.2	220.0	A04030800402xx
76 x 51	76.1 x 1.6	51.0 x 1.2	220.0	A04030800502xx
76 x 63	76.1 x 1.6	63.5 x 1.6	300.0	A04030800652xx
101 x 25	101.6 x 2.0	25.0 x 1.2	300.0	A04031000252xx
101 x 38	101.6 x 2.0	38.0 x 1.2	300.0	A04031000402xx
101 x 51	101.6 x 2.0	51.0 x 1.2	300.0	A04031000502xx
101 x 63	101.6 x 2.0	63.5 x 1.6	300.0	A04031000652xx
101 x 76	101.6 x 2.0	76.1 x 1.6	300.0	A04031000802xx

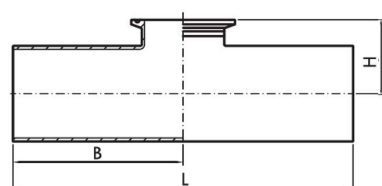
B / mm /: half dimnesion L / mm /

Tee Reducing - Clamp



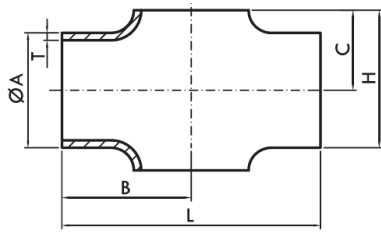
Size	B / mm /	L / mm /	Order No.
38 x 25	82.7	165.4	A04230400252xx
51 x 25	94.7	189.4	A04230500252xx
51 x 38	94.7	189.4	A04230500402xx
63 x 25	117.7	235.4	A04230650252xx
63 x 38	117.7	235.4	A04230650402xx
63 x 51	117.7	235.4	A04230650502xx
76 x 25	122.7	245.4	A04230800252xx
76 x 38	122.7	245.4	A04230800402xx
76 x 51	122.7	245.4	A04230800502xx
76 x 63	122.7	245.4	A04230800652xx
101 x 25	162.7	331.6	A04231000252xx
101 x 38	162.7	331.6	A04231000402xx
101 x 51	162.7	331.6	A04231000502xx
101 x 63	162.7	331.6	A04231000652xx
101 x 76	162.7	331.6	A04231000802xx

Tee Reducing – Welded/Clamp



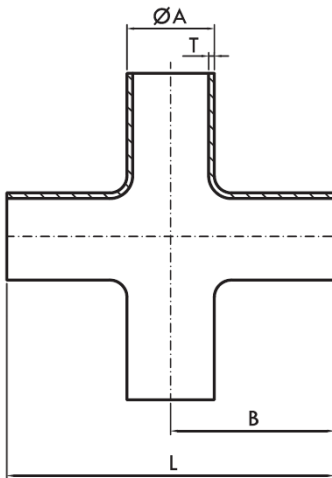
Size	E / mm /	H / mm /	L / mm /	Order No.
38 x 25	70.0	33.7	164.0	A04330400252xx
51 x 25	82.0	41.2	164.0	A04330500252xx
51 x 38	82.0	41.2	210.0	A04330500402xx
63 x 25	105.0	47.3	210.0	A04330650252xx
63 x 38	105.0	47.3	210.0	A04330650402xx
63 x 51	105.0	47.3	220.0	A04330650502xx
76 x 25	110.0	53.7	220.0	A04330800252xx
76 x 38	110.0	53.7	220.0	A04330800402xx
76 x 51	110.0	53.7	220.0	A04330800502xx
76 x 63	110.0	53.7	300.0	A04330800652xx
101 x 25	110.0	67.7	300.0	A04331000252xx
101 x 38	150.0	67.7	300.0	A04331000402xx
101 x 51	150.0	67.7	300.0	A04331000502xx
101 x 63	150.0	67.7	300.0	A04331000652xx
101 x 76	150.0	67.7	300.0	A04331000802xx

Cross Short Outlet - Welded



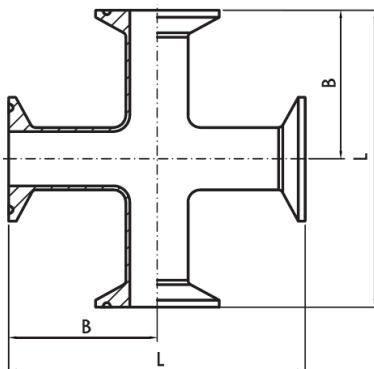
Size	AxT / mm /	B / mm /	L / mm /	Order No.
25	25.0 x 1.2	55.0	110.0	A221302500002xx
38	38.0 x 1.2	70.0	140.0	A221304000002xx
51	51.0 x 1.2	82.0	164.0	A221305000002xx
63	63.5 x 1.2	105.0	210.0	A221306500002xx
76	76.1 x 1.2	110.0	220.0	A221308000002xx
101	101.0 x 2.0	150.0	300.0	A221310000002xx

Cross - Welded



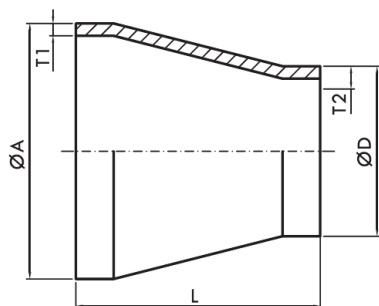
Size	AxT / mm /	C / mm /	H / mm /	Order No.
25	25.0 x 1.2	55.0	110.0	A220302500002xx
38	38.0 x 1.2	70.0	140.0	A220304000002xx
51	51.0 x 1.2	82.0	164.0	A220305000002xx
63	63.5 x 1.2	105.0	210.0	A220306500002xx
76	76.1 x 1.2	110.0	220.0	A220308000002xx
101	101.0 x 2.0	150.0	300.0	A220310000002xx

Cross - Clamp



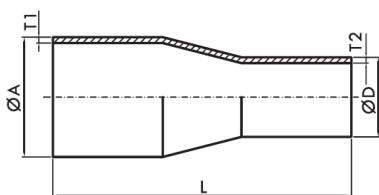
Size	E / mm /	B / mm /	L / mm /	Order No.
25	25.0 x 1.2	67.7	135.4	A222302500002xx
38	38.0 x 1.2	82.7	165.4	A222304000002xx
51	51.0 x 1.2	94.7	189.4	A222305000002xx
63	63.5 x 1.2	117.7	235.4	A222306500002xx
76	76.1 x 1.2	122.7	245.4	A222308000002xx
101	101.0 x 2.0	165.8	331.6	A222310000002xx

Concentric Reducer Short - Welded



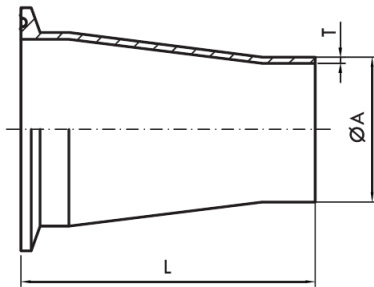
Size	E / mm /	F / mm /	L / mm /	Order No.
38 x 25	38.0 x 1.2	25.0 x 1.2	39.0	A05130400252xx
51 x 25	51.0 x 1.2	25.0 x 1.2	57.0	A05130500252xx
51 x 38	51.0 x 1.2	38.0 x 1.2	39.0	A05130500402xx
63 x 25	63.5 x 1.6	25.0 x 1.2	74.0	A05130650252xx
63 x 38	63.5 x 1.6	38.0 x 1.2	57.0	A05130650402xx
63 x 51	63.5 x 1.6	51.0 x 1.2	39.0	A05130650502xx
76 x 25	76.1 x 1.6	25.0 x 1.2	92.0	A05130800252xx
76 x 38	76.1 x 1.6	38.0 x 1.2	74.0	A05130800402xx
76 x 51	76.1 x 1.6	51.0 x 1.2	57.0	A05130800502xx
76 x 63	76.1 x 1.6	63.5 x 1.6	39.0	A05130800652xx
101 x 25	101.6 x 2.0	25.0 x 1.2	132.5	A05131000252xx
101 x 38	101.6 x 2.0	38.0 x 1.2	113.8	A05131000402xx
101 x 51	101.6 x 2.0	51.0 x 1.2	95.0	A05131000502xx
101 x 63	101.6 x 2.0	63.5 x 1.6	78.0	A05131000652xx
101 x 76	101.6 x 2.0	76.1 x 1.6	60.0	A05131000802xx

Concentric Reducer Long - Welded



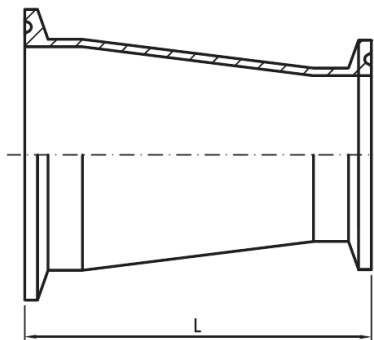
Size	E / mm /	F / mm /	L / mm /	Order No.
38 x 25	38.0 x 1.2	25.0 x 1.2	99.0	A05030400252xx
51 x 25	51.0 x 1.2	25.0 x 1.2	117.0	A05030500252xx
51 x 38	51.0 x 1.2	38.0 x 1.2	99.0	A05030500402xx
63 x 25	63.5 x 1.6	25.0 x 1.2	134.0	A05030650252xx
63 x 38	63.5 x 1.6	38.0 x 1.2	117.0	A05030650402xx
63 x 51	63.5 x 1.6	51.0 x 1.2	99.0	A05030650502xx
76 x 25	76.1 x 1.6	25.0 x 1.2	152.0	A05030800252xx
76 x 38	76.1 x 1.6	38.0 x 1.2	134.0	A05030800402xx
76 x 51	76.1 x 1.6	51.0 x 1.2	117.0	A05030800502xx
76 x 63	76.1 x 1.6	63.5 x 1.6	99.0	A05030800652xx
101 x 25	101.6 x 2.0	25.0 x 1.2	192.5	A05031000252xx
101 x 38	101.6 x 2.0	38.0 x 1.2	173.8	A05031000402xx
101 x 51	101.6 x 2.0	51.0 x 1.2	155.0	A05031000502xx
101 x 63	101.6 x 2.0	63.5 x 1.6	138.0	A05031000652xx
101 x 76	101.6 x 2.0	76.1 x 1.6	120.0	A05031000802xx

Concentric Reducer - Weld/Clamp



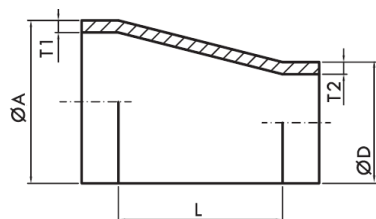
Size	AxT /mm/	L / mm /	Order No.
38 x 25	25.0 x 1.2	81.7	A05230400252xx
51 x 25	25.0 x 1.2	99.7	A05230500252xx
51 x 38	38.0 x 1.2	99.7	A05230500402xx
63 x 25	25.0 x 1.2	81.7	A05230650252xx
63 x 38	38.0 x 1.2	116.7	A05230650402xx
63 x 51	51.0 x 1.2	99.7	A05230650502xx
76 x 25	25.0 x 1.2	81.7	A05230800252xx
76 x 38	38.0 x 1.2	134.7	A05230800402xx
76 x 51	51.0 x 1.2	116.7	A05230800502xx
76 x 63	63.5 x 1.6	99.7	A05230800652xx
101 x 25	25.0 x 1.2	81.7	A05231000252xx
101 x 38	38.0 x 1.2	178.3	A05231004002xx
101 x 51	51.0 x 1.2	140.8	A05231000502xx
101 x 63	63.5 x 1.6	123.8	A05231000652xx
101 x 76	76.1 x 1.6	105.8	A05231000802xx

Concentric Reducer - Clamp



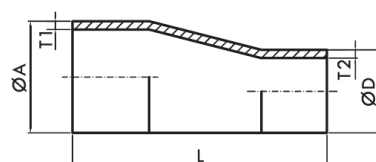
Size	L / mm /	Order No.
38 x 25	64.4	A05330400252xx
51 x 25	82.4	A05330500252xx
51 x 38	64.4	A05330500402xx
63 x 25	99.4	A05330650252xx
63 x 38	82.4	A05330650402xx
63 x 51	64.4	A05330650502xx
76 x 25	117.4	A05330800252xx
76 x 38	99.4	A05330800402xx
76 x 51	82.4	A05330800502xx
76 x 63	64.4	A05330800652xx
101 x 51	123.5	A05331000502xx
101 x 63	106.5	A05331000652xx
101 x 76	88.5	A05331000802xx

Eccentric Reducer Short - Welded



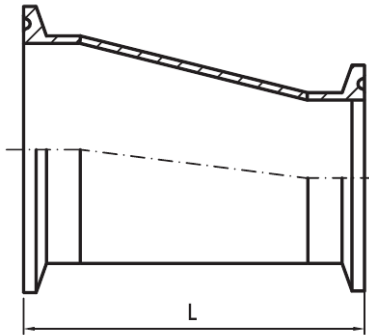
Size	E / mm /	F / mm /	L / mm /	Order No.
38 x 25	38.0 x 1.2	25.0 x 1.2	46.0	A06130400252xx
51 x 25	51.0 x 1.2	25.0 x 1.2	68.0	A06130500252xx
51 x 38	51.0 x 1.2	38.0 x 1.2	47.0	A06130500402xx
63 x 25	63.5 x 1.6	25.0 x 1.2	90.5	A06130650252xx
63 x 38	63.5 x 1.6	38.0 x 1.2	70.0	A06130650402xx
63 x 51	63.5 x 1.6	51.0 x 1.2	44.0	A06130650502xx
76 x 25	76.1 x 1.6	25.0 x 1.2	113.0	A06130800252xx
76 x 38	76.1 x 1.6	38.0 x 1.2	89.0	A06130800402xx
76 x 51	76.1 x 1.6	51.0 x 1.2	68.0	A06130800502xx
76 x 63	76.1 x 1.6	63.5 x 1.6	47.0	A06130800652xx
101 x 51	101.6 x 2.0	51.0 x 1.2	107.0	A06131000502xx
101 x 63	101.6 x 2.0	63.5 x 1.6	94.0	A06131000652xx
101 x 76	101.6 x 2.0	76.1 x 1.6	74.0	A06131000802xx

Eccentric Reducer Long - Welded



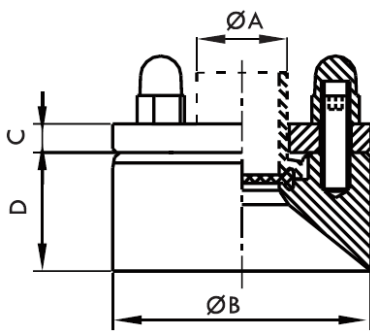
Size	E / mm /	F / mm /	L / mm /	Order No.
38 x 25	38.0 x 1.2	25.0 x 1.2	106.0	A06030400252xx
51 x 25	51.0 x 1.2	25.0 x 1.2	128.0	A06030500252xx
51 x 38	51.0 x 1.2	38.0 x 1.2	107.0	A06030500402xx
63 x 25	63.5 x 1.6	25.0 x 1.2	150.5	A06030650252xx
63 x 38	63.5 x 1.6	38.0 x 1.2	130.0	A06030650402xx
63 x 51	63.5 x 1.6	51.0 x 1.2	104.0	A06030650502xx
76 x 25	76.1 x 1.6	25.0 x 1.2	173.0	A06030800252xx
76 x 38	76.1 x 1.6	38.0 x 1.2	149.0	A06030800402xx
76 x 51	76.1 x 1.6	51.0 x 1.2	128.0	A06030800502xx
76 x 63	76.1 x 1.6	63.5 x 1.6	107.0	A06030800652xx
101 x 51	101.6 x 2.0	51.0 x 1.2	177.0	A06031000502xx
101 x 63	101.6 x 2.0	63.5 x 1.6	154.0	A06031000652xx
101 x 76	101.6 x 2.0	76.1 x 1.6	134.0	A06031000802xx

Eccentric Reducer - Clamp



Size	E / mm /	F / mm /	L / mm /	Order No.
38 x 25	38.0 x 1.2	25.0 x 1.2	71.4	A06230400252xx
51 x 25	51.0 x 1.2	25.0 x 1.2	93.4	A06230500252xx
51 x 38	51.0 x 1.2	38.0 x 1.2	72.4	A06230500402xx
63 x 25	63.5 x 1.6	25.0 x 1.2	115.9	A06230650252xx
63 x 38	63.5 x 1.6	38.0 x 1.2	95.4	A06230650402xx
63 x 51	63.5 x 1.6	51.0 x 1.2	96.4	A06230650502xx
76 x 25	76.1 x 1.6	25.0 x 1.2	138.4	A06230800252xx
76 x 38	76.1 x 1.6	38.0 x 1.2	114.4	A06230800402xx
76 x 51	76.1 x 1.6	51.0 x 1.2	93.4	A06230800502xx
76 x 63	76.1 x 1.6	63.5 x 1.6	72.4	A06230800652xx
101 x 51	101.6 x 2.0	51.0 x 1.2	145.5	A06231000502xx
101 x 63	101.6 x 2.0	63.5 x 1.6	122.5	A06231000652xx
101 x 76	101.6 x 2.0	76.1 x 1.6	102.5	A06231000802xx

Tank Clamp Flange - Welded



Size	B / mm /	C / mm /	D / mm /	Order No.
3/4 "	54.5	6.0	25.0	A21000150002xx
1 "	84.5	6.0	25.0	A21000250002xx
1 1/2 "	84.5	6.0	25.0	A21000400002xx
2 "	99.5	6.0	25.0	A21000500002xx
2 1/2 "	112.0	10.0	38.0	A21000650002xx
3 "	131.0	10.0	38.0	A21000800002xx



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