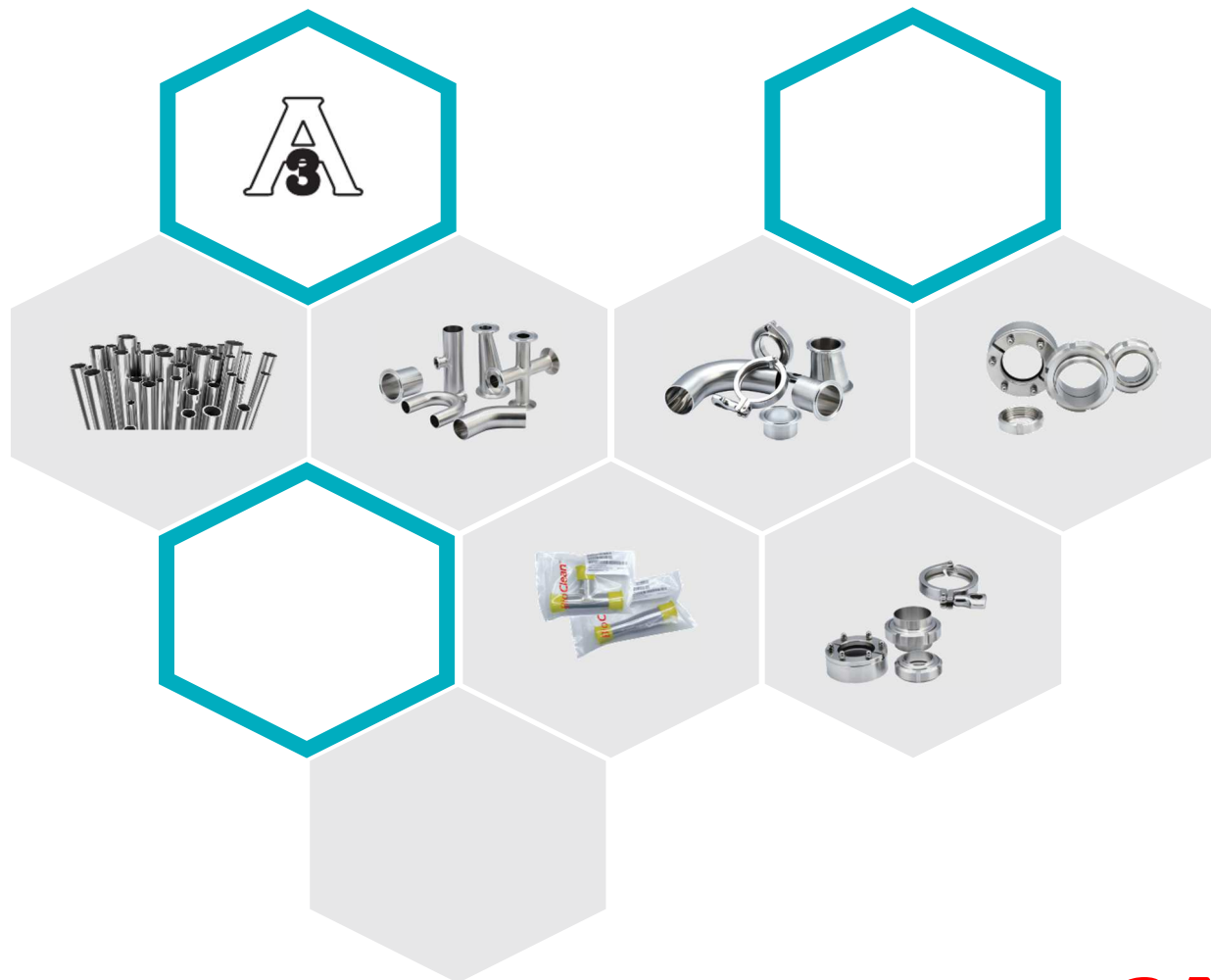




3A

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

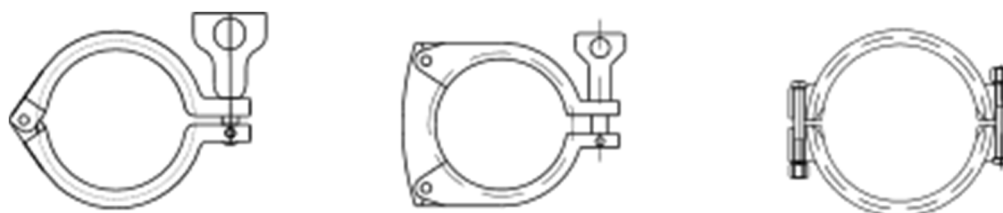
CODING / not all codec combinations are available /

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 Liner				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							
Position 3 > Design	X	Desing 0 - 9												
Position 4 > Standard	0	Not identification				3	ISO							
	1	DIN				4	3A							
	2	ASME BPE												
Position 5 and 6 > Dimension														
	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												
Position 7 > Material	1	AISI 304												
	2	AISI 316 L												
	3	ISO.4487												
Position 8 > Finisch	1	SF4				4	0,8							
	2	SF1				5	Extra							
	3	0,2												
Position 9 > Polishing	0	without												
	1	Mechanically												
	2	Electropolish												

Size range of finished sanitary tubes

ISO			3A			DIN 11850 Series 2			DIN 11850 Series 1			DIN			ASME BPE			BS			GB		
NOM. Size	OD	T	NOM. Size	OD	T	NOM. Size	OD	T	NOM. Size	OD	T	NOM. Size	OD	T	NOM. Size	OD	T	NOM. Size	OD	T	NOM. Size	OD	T
															1/4"	6.35	0.89						
						DN 10	13	1.5	DN 10	12	1.0	DN 10	12	1.5	3/8"	9.53	0.89						
			1/2"	12.7	1.65	DN 15	19	1.5	DN 15	18	1.0	DN 15	18	1.5	1/2"	12.7	1.65	1/2"	12.7	1.6	1/2"	12.7	1.5
			3/4"	19.1	1.65	DN 20	23	1.5	DN 20	22	1.0	DN 20	22	1.5	3/4"	19.1	1.65	3/4"	19.1	1.6	3/4"	19.1	1.5
25	25.0	1.2	1"	25.4	1.65	DN 25	29	1.5	DN 25	28	1.0	DN 25	28	1.5	1"	25.4	1.65	1"	25.4	1.6	1"	25.4	1.5
32	31.8	1.2				DN 32	35	1.5	DN 32	34	1.0	DN 32	34	1.5				1 1/4"	31.8	1.6	1 1/4"	31.8	1.5
38	38.0	1.2	1 1/2"	38.1	1.65										1 1/2"	38.1	1.65	1 1/2"	38.1	1.6	1 1/2"	38.1	1.5
						DN 40	41	1.5	DN 40	40	1.0	DN 40	40	1.5									
51	51.0	1.2	2"	50.8	1.65	DN 50	53	1.5	DN 50	52	1.0	DN 50	52	1.5	2"	50.8	1.65	2"	50.8	1.6	2"	50.8	1.5
63	63.5	1.6	2 1/2"	63.5	1.65										2 1/2"	63.5	1.65	2 1/2"	63.5	1.6	2 1/2"	63.5	1.5
						DN 65	70	2													2 1/2"	63.5	2
76	76.1	1.6	3"	76.2	1.65										3"	76.2	1.65	3"	76.2	1.6	3"	76.2	1.5
						DN 80	85	2													3"	76.2	2
																					3 1/2"	88.9	2
101	101.6	2	4"	101.6	2.11	DN 100	104	2							4"	101.6	2.11	4"	101.6	2	4"	101.6	2
104	104.0	2				DN 125	129	2													4 1/2"	114.3	2
																		5"	129	2			
129	129.0	2	6"	152.4	2.77	DN 150	154	2							6"	152.4	2.77	6"	154	2			
204	204.0	2	8"	203.2	2.77	DN 200	204	2										8"	204	2			
																		10"	254	2			

Hygienic Clamp: Rated Internal Working Pressure

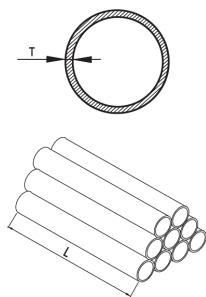


Nom.Size	13MHH Clamp				13MHH3 Clamp				13MHP Clamp			
	70°F / 21°C		250°F / 121°C		70°F / 21°C		250°F / 121°C		70°F / 21°C		250°F / 121°C	
	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar
1/2" & 3/4"	1500	103	1200	83					1500	103	1200	83
1" & 1 1/2"	500	34	250	17	600	41	300	21	1500	103	1200	83
2"	450	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

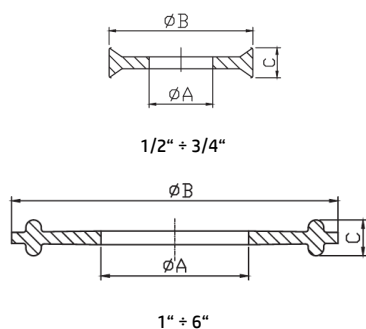
	EPDM	NBR	Viton	Silicone	Teflon
Temperature Range	-48 ÷ 135°C -55 ÷ 275°F	-40 ÷ 120°C -40 ÷ 248°F	-29 ÷ 204°C -20 ÷ 400°F	-62 ÷ 232°C -80 ÷ 450°F	-40 ÷ 232°C -40 ÷ 450°F
Acid Resistance	Good-Excellent	Good	Good	Good	Good-Excellent
Alkali Resistance	Good -Excellent	Good	Poor-Good	Poor-Fair	Good -Excellent
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	OD x T / mm /	L / mm /	Order No.
1/4"	6.35 x 0,89	6 100.0	A00040080002XX
3/8"	9.53 x 0,89	6 100.0	A00040100002XX
1/2"	12.70 x 1.65	6 100.0	A00040150002XX
3/4"	19.05 x 1.65	6 100.0	A00040200002XX
1"	25.40 x 1.65	6 100.0	A00040250002XX
1 1/2"	38.10 x 1.65	6 100.0	A00040400002XX
2"	50.80 x 1.65	6 100.0	A00040500002XX
2 1/2"	63.50 x 1.65	6 100.0	A00040650002XX
3"	76.20 x 1.65	6 100.0	A00040800002XX
4"	101.60 x 2.11	6 100.0	A00041000002XX
6"	152.40 x 2.77	6 100.0	A00041500002XX
8"	203.20 x 2.77	6 100.0	A00042000002XX

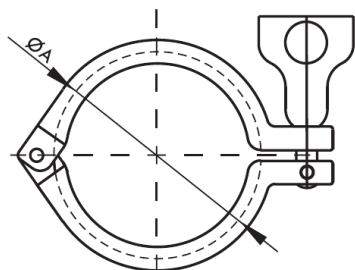
Gasket - Clamp



Size	A / mm /	B / mm /	C / mm /	Order No.
1/2"	9.6	21.7	4.5	C0704015000X00
3/4"	16.0	21.7	4.5	C0704020000X00
1"	22.4	50.5	5.5	C0704025000X00
1 1/2"	35.0	50.5	5.5	C0704040000X00
2"	47.8	64.0	5.5	C0704050000X00
2 1/2"	60.5	77.5	5.5	C0704065000X00
3"	73.1	91.0	5.5	C0704080000X00
4"	97.8	119.0	5.5	C0704100000X00
6"	147.2	161.9	5.5	C0704150000X00

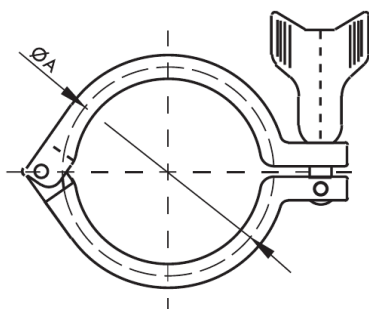
Order: X > E=EPDM, T=Teflon, P=PTFE, N=NBR, S=Silicone

Clamp 13 MHH-O



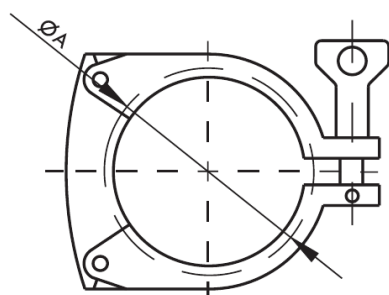
Size	A / mm /	Order No.
1/2"	28.6	A0800020000100
3/4"	28.6	A0800020000100
1"	53.9	A0800040000100
1 1/2"	53.9	A0800040000100
2"	67.4	A0800050000100
2 1/2"	80.9	A0800065000100
3"	94.4	A0800080000100
4"	122.4	A0800100000100
6"	170.4	A0800150000100
8"	221.2	A0800200000100
10"	272.0	A0800250000100

Clamp 13 MHH-T



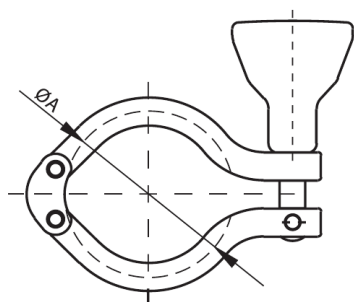
Size	A / mm /	Order No.
1/2"	28.6	A0900020000100
3/4"	28.6	A0900020000100
1"	53.9	A0900040000100
1 1/2"	53.9	A0900040000100
2"	67.4	A0900050000100
2 1/2"	80.9	A0900065000100
3"	94.4	A0900080000100
4"	122.4	A0900100000100
6"	170.4	A0900150000100
8"	221.2	A0900200000100
10"	272.0	A0900250000100

Clamp 13 MHH3



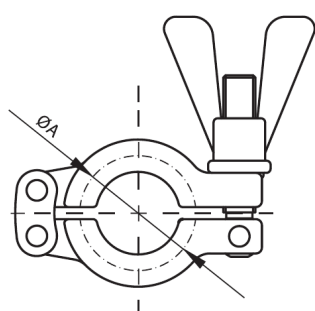
Size	A / mm /	Order No.
1"	53.9	A1000040000100
1 1/2"	53.9	A1000040000100
2"	67.4	A1000050000100
2 1/2"	80.9	A1000065000100
3"	94.4	A1000080000100
4"	122.4	A1000100000100

Clamp TC - T



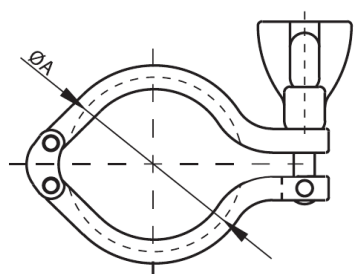
Size	A / mm /	Order No.
1"	53.9	A1100040000100
1 1/2"	53.9	A1100040000100
2"	67.4	A1100050000100
2 1/2"	80.9	A1100065000100
3"	94.4	A1100080000100
4"	122.4	A1100100000100

Clamp TC - V



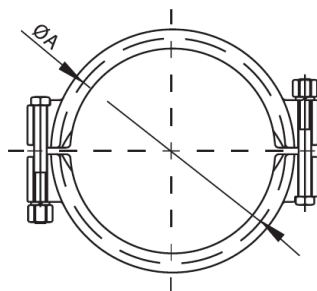
Size	A / mm /	Order No.
1/2"	28.0	A1110020000100
3/4"	28.0	A1110020000100
1"	53.9	A1110040000100
1 1/2"	53.9	A1110040000100
2"	67.4	A1110050000100
2 1/2"	80.9	A1110065000100
3"	94.4	A1110080000100
4"	122.0	A1110100000100

Clamp TC - X



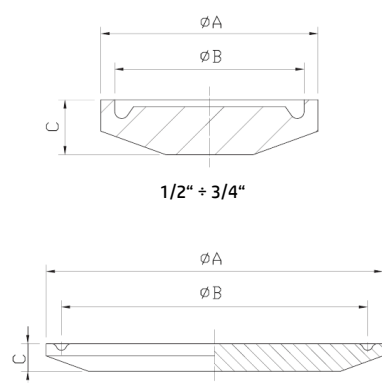
Size	A / mm /	Order No.
1"	53.9	A1120040000100
1 1/2"	53.9	A1120040000100
2"	67.4	A1120050000100
2 1/2"	80.9	A1120065000100
3"	94.4	A1120080000100
4"	122.4	A1120100000100

Clamp High Pressure 13MHP



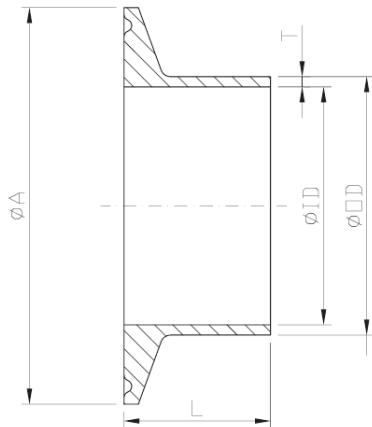
Size	A / mm /	Order No.
1/2"	28.6	A1200020000100
3/4"	28.6	A1200020000100
1"	52.0	A1200040000100
1 1/2"	52.0	A1200040000100
2"	65.5	A1200050000100
2 1/2"	79.0	A1200065000100
3"	92.5	A1200080000100
4"	158.8	A1200100000100
6"	170.4	A1200150000100

Clamp Blind / 16 AMP /



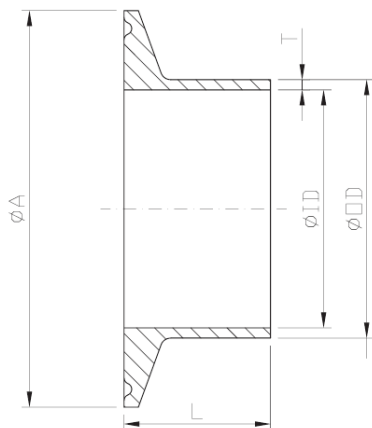
Size	A / mm /	B / mm /	C / mm /	Order No.
1/2" – 3/4"	25.0	21.80	4.7	A14040200002XX
1" – 1 1/2"	50.4	43.60	6.4	A14040400002XX
2"	63.9	56.30	6.4	A14040500002XX
2 1/2"	77.4	70.60	6.4	A14040650002XX
3"	90.9	83.30	6.4	A14040800002XX
4"	118.9	110.30	8.0	A14041000002XX
6"	166.9	156.87	11.1	A14041500002XX

Clamp Liner Mini / 14 WMP /



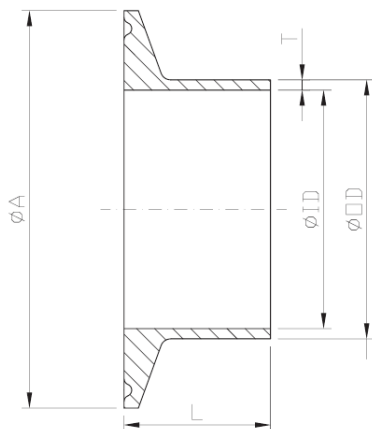
Size	OD x T / mm /	A / mm /	L / mm /	Order No.
1/4"	6.35 x 0,89	25.00	12.70	A13040080002XX
3/8"	9.53 x 0,89	25.00	12.70	A13040100002XX
1/2"	12.70 x 1.65	25.00	12.70	A13040150002XX
1/2" - 1x	12.70 x 1.65	50.40	12.70	A13040150012XX
3/4"	19.05 x 1.65	25.00	12.70	A13040200002XX
3/4" - 1x	19.05 x 1.65	50.40	12.70	A13040200012XX
1"	25.40 x 1.65	50.40	12.70	A13040250002XX
1 1/2"	38.10 x 1.65	50.40	12.70	A13040400002XX
2"	50.80 x 1.65	63.90	12.70	A13040500002XX
2 1/2"	63.50 x 1.65	77.50	12.70	A13040650002XX
3"	76.20 x 1.65	90.90	12.70	A13040800002XX
4"	101.60 x 2.11	118.90	15.90	A13041000002XX
6"	152.40 x 2.77	166.90	19.05	A13041500002XX
8"	203.20 x 2.77	217.67	22.20	A13042000002XX

Clamp Liner Short / 14 WMP /



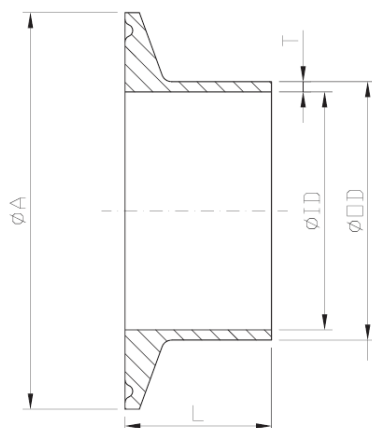
Size	OD x T / mm /	A / mm /	L / mm /	Order No.
1/2"	12.70 x 1.65	25.0	21.5	A13140150002XX
1/2"-1x	12.70 x 1.65	50.4	21.5	A13140150012XX
3/4"	19.05 x 1.65	25.0	21.5	A13140200002XX
3/4"-1x	19.05 x 1.65	50.4	21.5	A13140200012XX
1"	25.40 x 1.65	50.4	21.5	A13140250002XX
1 1/2"	38.10 x 1.65	50.4	21.5	A13140400002XX
2"	50.80 x 1.65	63.9	21.5	A13140500002XX
2 1/2"	63.50 x 1.65	77.5	21.5	A13140650002XX
3"	76.20 x 1.65	90.9	21.5	A13140800002XX
4"	101.60 x 2.11	118.9	21.5	A13141000002XX

Clamp Liner /14 WMP /



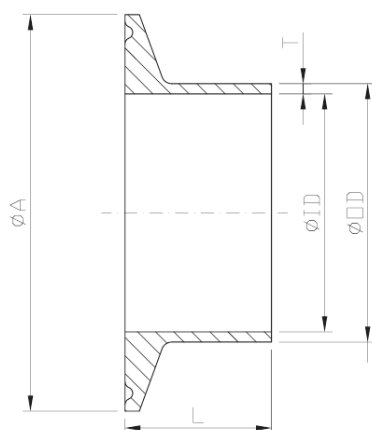
Size	OD x T / mm /	A / mm /	L / mm /	Order No.
1/4"	6.35 x 0,89	25.00	28.6	A13240080002XX
3/8"	9.53 x 0,89	25.00	28.6	A13240100002XX
1/2"	12.70 x 1.65	25.00	28.6	A13240150002XX
1/2" - 1x	12.70 x 1.65	50.40	28.6	A13240150012XX
3/4"	19.05 x 1.65	25.00	28.6	A13240200002XX
3/4" - 1x	19.05 x 1.65	50.40	28.6	A13240200012XX
1"	25.40 x 1.65	50.40	28.6	A13240250002XX
1 1/2"	38.10 x 1.65	50.40	28.6	A13240400002XX
2"	50.80 x 1.65	63.90	28.6	A13240500002XX
2 1/2"	63.50 x 1.65	77.50	28.6	A13240650002XX
3"	76.20 x 1.65	90.90	28.6	A13240800002XX
4"	101.60 x 2.11	118.90	28.6	A13241000002XX
6"	152.40 x 2.77	166.90	38.1	A13241500002XX

Clamp Liner /14 AMP-AWF /



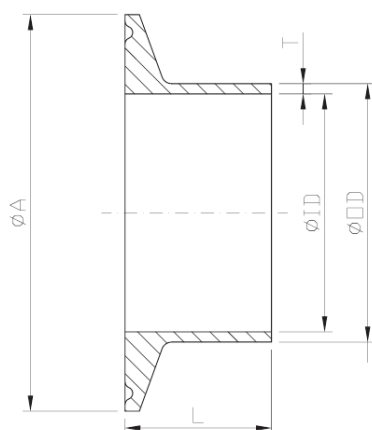
Size	OD x T / mm /	A / mm /	L / mm /	Order No.
1/4"	6.35 x 0,89	25.00	44.45	A13340080002XX
3/8"	9.53 x 0,89	25.00	44.45	A13340100002XX
1/2"	12.70 x 1.65	25.00	44.45	A13340150002XX
1/2"-1x	12.70 x 1.65	50.40	44.45	A13340150012XX
3/4"	19.05 x 1.65	25.00	44.45	A13340200002XX
3/4"-1x	19.05 x 1.65	50.40	44.45	A13340200012XX
1"	25.40 x 1.65	50.40	44.45	A13340250002XX
1 1/2"	38.10 x 1.65	50.40	44.45	A13340400002XX
2"	50.80 x 1.65	63.90	57.20	A13340500002XX
2 1/2"	63.50 x 1.65	77.50	57.20	A13340650002XX
3"	76.20 x 1.65	90.90	57.20	A13340800002XX
4"	101.60 x 2.11	118.90	57.20	A13341000002XX
6"	152.40 x 2.77	166.90	76.20	A13341500002XX

Clamp Liner /14 AWP-AWF /



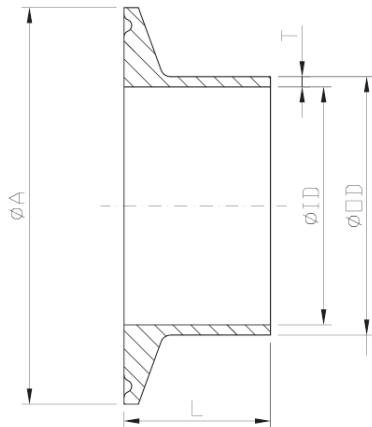
Size	OD x T / mm /	A / mm /	L / mm /	Order No.
1/4"	6.35 x 0,89	25.00	44.45	A13440080002XX
3/8"	9.53 x 0,89	25.00	44.45	A13440100002XX
1/2"	12.70 x 1.65	25.00	44.45	A13440150002XX
1/2"-1x	12.70 x 1.65	50.40	44.45	A13440150012XX
3/4"	19.05 x 1.65	25.00	44.45	A13440200002XX
3/4"-1x	19.05 x 1.65	50.40	44.45	A13440200012XX
1"	25.40 x 1.65	50.40	44.45	A13440250002XX
1 1/2"	38.10 x 1.65	50.40	44.45	A13440400002XX
2"	50.80 x 1.65	63.90	57.20	A13440500002XX
2 1/2"	63.50 x 1.65	77.50	57.20	A13440650002XX
3"	76.20 x 1.65	90.90	57.20	A13440800002XX
4"	101.60 x 2.11	118.90	57.20	A13441000002XX
6"	152.40 x 2.77	166.90	76.20	A13441500002XX

Clamp Liner / 14 MPW /



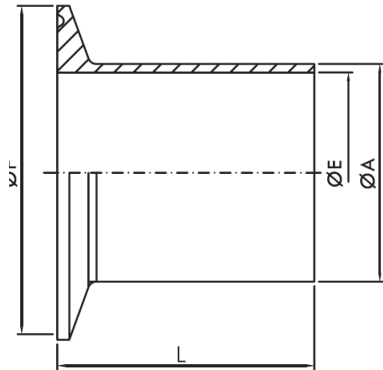
Size	OD x T / mm /	A / mm /	L / mm /	Order No.
1"	29.46 x 3.680	50.4	41.3	A13540250002XX
1" - 1x	29.46 x 3.680	50.4	76.2	A13540250012XX
1 1/2"	42.57 x 3.885	50.4	41.3	A13540400002XX
1 1/2" - 1x	42.57 x 3.885	50.4	76.2	A13540400012XX
2"	55.67 x 4.085	63.9	44.5	A13540500002XX
2" - 1x	55.67 x 4.085	63.9	76.2	A13540500012XX
2 1/2"	68.78 x 4.290	77.5	44.5	A13540650002XX
2 1/2" - 1x	68.78 x 4.290	77.5	76.2	A13540650012XX
3"	81.88 x 4.490	90.9	46.0	A13540800002XX
3" - 1x	81.88 x 4.490	90.9	76.2	A13540800012XX
4"	108.10 x 5.350	118.9	54.0	A13541000002XX
4" - 1x	108.10 x 5.350	118.9	76.2	A13541000012XX

Clamp Liner / 14 WLMP /



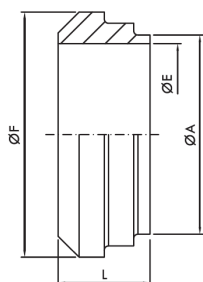
Size	A/E / mm /	F / mm /	L / mm /	Order No.
1/2"	21.7 / 9.4	25.0	76.2	A13640080002XX
3/4"	19.1 / 15.8	25.0	76.2	A13640100002XX
1"	25.4 / 22.1	50.4	76.2	A13640150002XX
1"-1x	25.4 / 22.1	50.4	101.6	A13640250012XX
1"-2x	25.4 / 22.1	50.4	75.0	A13640250022XX
1"-3x	25.4 / 22.1	50.4	130.0	A13640250032XX
1 1/2"	38.1 / 34.8	50.4	76.2	A13640250002XX
1 1/2"-1x	38.1 / 34.8	50.4	100.0	A13640400012XX
2"	50.8 / 47.5	63.9	76.2	A13640500002XX
2"-1x	50.8 / 47.5	63.9	130.0	A13640500012XX
2 1/2"	63.5 / 60.2	77.9	76.2	A13640650002XX
3"	76.2 / 72.9	90.9	101.6	A13640800002XX
4"	101.6 / 97.4	118.9	101.6	A13641000002XX
4"-1x	101.6 / 97.4	118.9	75.0	A13641000012XX
6"	152.4 / 146.8	166.9	152.4	A13641500002XX
6"-1x	152.4 / 146.8	166.9	75.0	A13641500012XX
8"	203.2 / 197.6	217.7	152.4	A13642000002XX

Clamp Liner / TS/14 AHT /



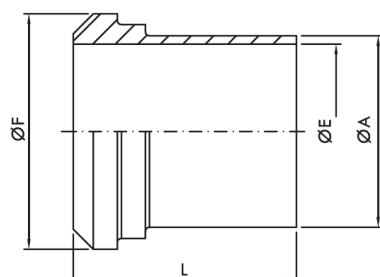
Size	E / mm /	F / mm /	L / mm /	Order No.
1"	22.1	50.4	114.3	A13740250002XX
1 1/2"	34.9	50.4	114.3	A13740400002XX
2"	47.5	63.9	114.3	A13740500002XX
2 1/2"	60.2	77.5	114.3	A13740650002XX
3"	72.9	90.9	114.3	A13740800002XX
4"	97.4	118.9	117.4	A13741000002XX

Liner Short / 14 PR joint /



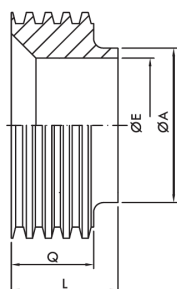
Size	A/E / mm /	F / mm /	L mm /	Order No.
1"	25.4 / 22.1	33.4	17.5	A16040250002XX
1 1/2"	38.1 / 34.8	32.6	17.5	A16040400002XX
2"	50.8 / 47.5	34.3	17.3	A16040500002XX
2 1/2"	63.5 / 60.2	40.0	21.4	A16040650002XX
3"	76.2 / 72.9	44.4	23.8	A16040800002XX
4"	101.6 / 97.4	55.9	31.0	A16041000002XX

Liner / 14A joint /



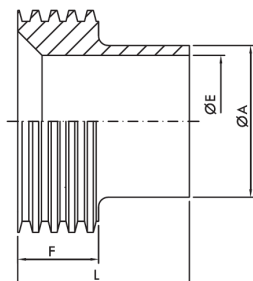
Size	A/E / mm /	F / mm /	L mm /	Order No.
1"	25.4 / 22.1	33.4	34.9	A16140250002XX
1 1/2"	38.1 / 34.8	46.9	38.1	A16140400002XX
2"	50.8 / 47.5	60.5	38.1	A16140500002XX
2 1/2"	63.5 / 60.2	74.0	44.5	A16140650002XX
3"	76.2 / 72.9	87.5	44.5	A16140800002XX
4"	101.6 / 97.4	114.5	44.5	A16141000002XX

Treaded Male Short / 15 TR thread-weld joint /



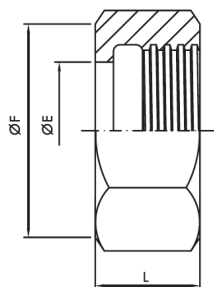
Size	A/E / mm /	F / mm /	L mm /	Order No.
1"	25.4 / 22.1	17.5	13.5	A17040250002XX
1 1/2"	38.1 / 34.8	17.5	13.5	A17040400002XX
2"	50.8 / 47.5	17.3	14.3	A17040500002XX
2 1/2"	63.5 / 60.2	21.4	17.5	A17040650002XX
3"	76.2 / 72.9	23.8	18.3	A17040800002XX
4"	101.6 / 97.4	31.0	21.4	A17041000002XX

Treaded Male / 15A joint /



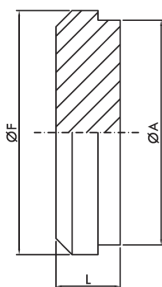
Size	A/E / mm /	F / mm /	L mm /	Order No.
1"	25.4 / 22.1	14.3	34.9	A17140250002XX
1 1/2"	38.1 / 34.8	14.3	38.1	A17140400002XX
2"	50.8 / 47.5	15.1	38.1	A17140500002XX
2 1/2"	63.5 / 60.2	18.3	44.5	A17140650002XX
3"	76.2 / 72.9	19.1	44.5	A17140800002XX
4"	101.6 / 97.4	22.2	44.5	A17141000002XX

Nut / 13 hex /



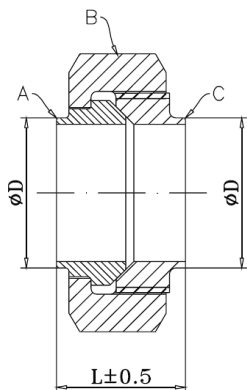
Size	E / mm /	F / mm /	L mm /	Order No.
1"	30.3	46.0	23.0	A18040250002XX
1 1/2"	43.4	61.1	24.6	A18040400002XX
2"	56.5	76.2	27.0	A18040500002XX
2 1/2"	69.6	91.3	30.2	A18040650002XX
3"	82.7	106.5	32.5	A18040800002XX
4"	103.5	112.3	35.0	A18041000002XX

Blind end / 16A cap /

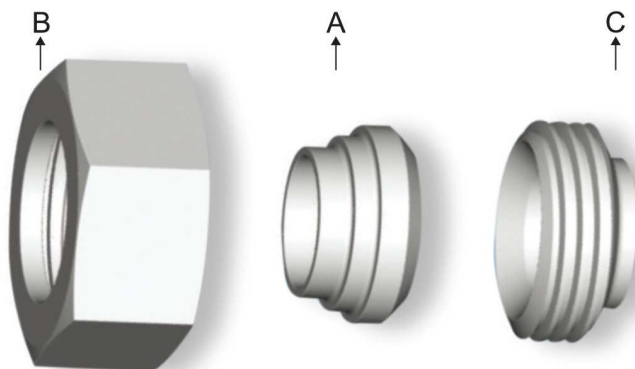


Size	A / mm /	F / mm /	L mm /	Order No.
1"	33.4	29.5	12.0	A19040250002XX
1 1/2"	46.9	42.6	14.4	A19040400002XX
2"	60.5	55.7	15.9	A19040500002XX
2 1/2"	74.0	68.8	16.7	A19040650002XX
3"	87.5	81.9	18.3	A19040800002XX
4"	114.5	180.1	20.6	A19041000002XX

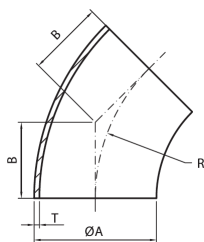
Thread Connection / 3A /



Size	D / mm /	L / mm /	Order No.
1"	25.4	33.4	A24040250002XX
1 1/2"	38.1	32.6	A24040400002XX
2"	50.8	34.3	A24040500002XX
2 1/2"	63.5	40.0	A24040650002XX
3"	76.2	44.4	A24040800002XX
4"	101.6	55.9	A24041000002XX

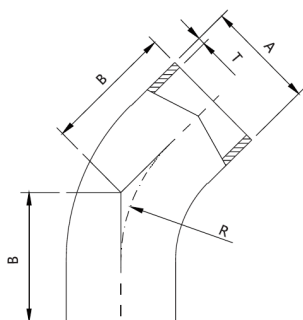


Bend 45° Short - Welded



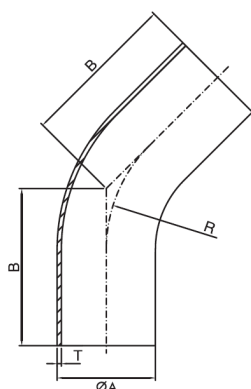
Size	A xT / mm /	B / mm /	R / mm /	Order No.
1/2"	12.7 x 1.65	8.0	19.1	A02040150002XX
3/4"	19.1 x 1.65	11.9	28.6	A02040200002XX
1"	25.4 x 1.65	15.8	38.1	A02040250002XX
1 1/2"	38.1 x 1.65	23.7	57.2	A02040400002XX
2"	50.8 x 1.65	31.6	76.2	A02040500002XX
2 1/2"	63.5 x 1.65	39.7	95.3	A02040650002XX
3"	76.2 x 1.65	47.4	114.3	A02040800002XX
4"	101.6 x 2.11	63.1	152.4	A02041000002XX

Bend 45° Long - Welded



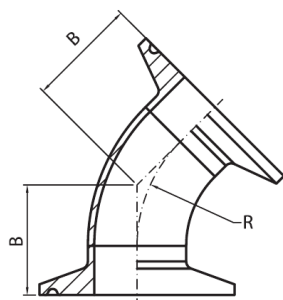
Size	A xT / mm /	B / mm /	R / mm /	Order No.
3/4"	19.1 x 1.65	19.40	28.6	A02140200002XX
1"	25.4 x 1.65	30.18	38.1	A02140250002XX
1 1/2"	38.1 x 1.65	41.28	57.2	A02140400002XX
2"	50.8 x 1.65	58.78	76.2	A02140500002XX
2 1/2"	63.5 x 1.65	76.20	95.3	A02140650002XX
3"	76.2 x 1.65	93.70	114.3	A02140800002XX
4"	101.6 x 2.11	122.20	152.4	A02141000002XX
6"	152.4 x 2.77	158.80	228.6	A02141500002XX

Bend 45° Lengthen - Welded



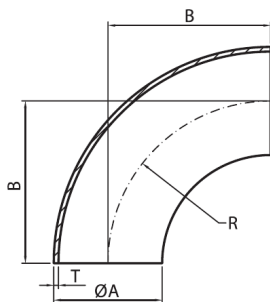
Size	A xT / mm /	B / mm /	R / mm /	Order No.
1/2"	12.7 x 1.65	57.2	28.6	A02240150002XX
3/4"	19.1 x 1.65	57.2	28.6	A02240200002XX
1"	25.4 x 1.65	57.2	38.1	A02240250002XX
1 1/2"	38.1 x 1.65	63.5	57.2	A02240400002XX
2"	50.8 x 1.65	76.2	76.2	A02240500002XX
2 1/2"	63.5 x 1.65	85.7	95.3	A02240650002XX
3"	76.2 x 1.65	92.1	114.3	A02240800002XX
4"	101.6 x 2.11	114.3	152.4	A02241000002XX
6"	152.4 x 2.77	158.8	228.6	A02241500002XX

Bend 45° - Clamp



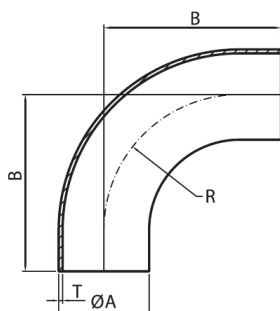
Size	A xT / mm /	B / mm /	R / mm /	Order No.
1/2"	12.7 x 1.65	25.4	28.6	A02340150002XX
3/4"	19.1 x 1.65	25.4	28.6	A02340200002XX
1"	25.4 x 1.65	28.6	38.1	A02340250002XX
1 1/2"	38.1 x 1.65	36.5	57.2	A02340400002XX
2"	50.8 x 1.65	44.5	76.2	A02340500002XX
2 1/2"	63.5 x 1.65	52.4	95.3	A02340650002XX
3"	76.2 x 1.65	60.3	114.3	A02340800002XX
4"	101.6 x 2.11	79.4	152.4	A02341000002XX

Bend 90° Short - Welded



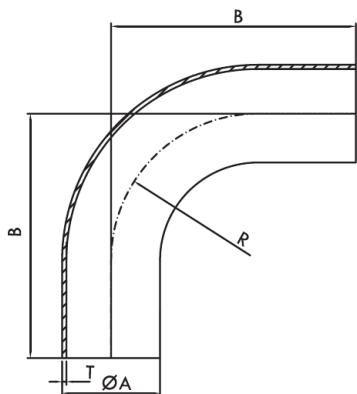
Size	A x T / mm /	B / mm /	R / mm /	Order No.
1/2"	12.7 x 1.65	19.1	19.1	A01040150002XX
3/4"	19.1 x 1.65	28.6	28.6	A01040200002XX
1"	25.4 x 1.65	38.1	38.1	A01040250002XX
1 1/2"	38.1 x 1.65	57.2	57.2	A01040400002XX
2"	50.8 x 1.65	76.2	76.2	A01040500002XX
2 1/2"	63.5 x 1.65	95.3	95.3	A01040650002XX
3"	76.2 x 1.65	114.3	114.3	A01040800002XX
4"	101.6 x 2.11	152.4	152.4	A01041000002XX

Bend 90° Long - Welded



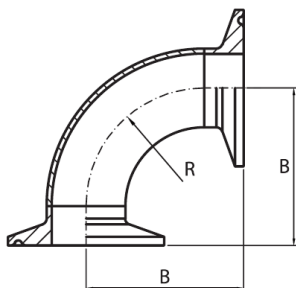
Size	A x T / mm /	B / mm /	R / mm /	Order No.
1"	25.4 x 1.65	52.4	38.1	A01140250002XX
1 1/2"	38.1 x 1.65	74.6	57.2	A01140400002XX
2"	50.8 x 1.65	103.2	76.2	A01140500002XX
2 1/2"	63.5 x 1.65	131.8	95.3	A01140650002XX
3"	76.2 x 1.65	160.3	114.3	A01140800002XX
4"	101.6 x 2.11	211.1	152.4	A01141000002XX

Bend 90° Lengthen - Welded



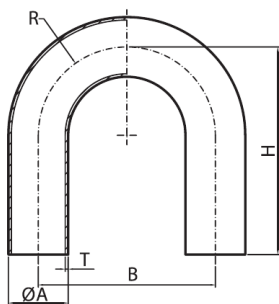
Size	A x T / mm /	B / mm /	R / mm /	Order No.
3/8"	9.53 x 0.89	66.7	28.6	A01240100002XX
1/2"	12.7 x 1.65	76.2	28.6	A01240150002XX
3/4"	19.1 x 1.65	76.2	28.6	A01240200002XX
1"	25.4 x 1.65	76.2	38.1	A01240250002XX
1 1/2"	38.1 x 1.65	95.3	57.2	A01240400002XX
2"	50.8 x 1.65	120.7	76.2	A01240500002XX
2 1/2"	63.5 x 1.65	139.7	95.3	A01240650002XX
3"	76.2 x 1.65	158.8	114.3	A01240800002XX
4"	101.6 x 2.11	203.2	152.4	A01241000002XX
6"	152.4 x 2.77	292.1	228.6	A01241500002XX

Bend 90° - Clamp



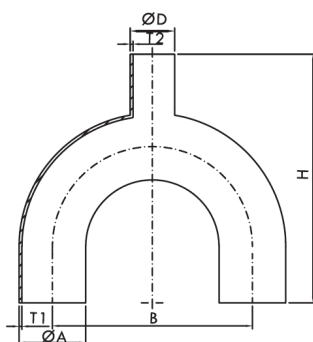
Size	A x T / mm /	B / mm /	R / mm /	Order No.
1/2"	12.7 x 1.65	41.3	28.6	A01340150002XX
3/4"	19.1 x 1.65	41.3	28.6	A01340200002XX
1"	25.4 x 1.65	50.8	38.1	A01340250002XX
1 1/2"	38.1 x 1.65	69.8	57.2	A01340400002XX
2"	50.8 x 1.65	88.9	76.2	A01340500002XX
2 1/2"	63.5 x 1.65	108.0	95.3	A01340650002XX
3"	76.2 x 1.65	127.0	114.3	A01340800002XX
4"	101.6 x 2.11	168.3	152.4	A01341000002XX
6"	152.4 x 2.77	247.7	228.6	A01341500002XX

Bend 180° - Welded



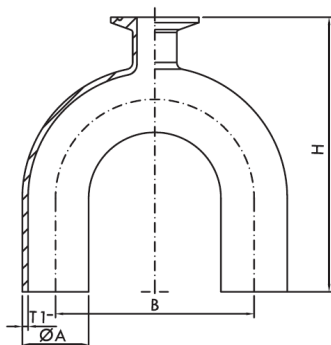
Size	A x T / mm /	B / mm /	R / mm /	Order No.
1/2"	12.7 x 1.65	38.2	19.1	A15040150002XX
3/4"	19.1 x 1.65	57.2	28.6	A15040200002XX
1"	25.4 x 1.65	76.2	38.1	A15040250002XX
1 1/2"	38.1 x 1.65	114.3	57.2	A15040400002XX
2"	50.8 x 1.65	152.4	76.2	A15040500002XX
2 1/2"	63.5 x 1.65	190.5	95.3	A15040650002XX
3"	72.6 x 1.65	228.6	114.3	A15040800002XX
4"	101.6 x 2.11	304.8	152.4	A15041000002XX

Bend 180° Outlet- Welded



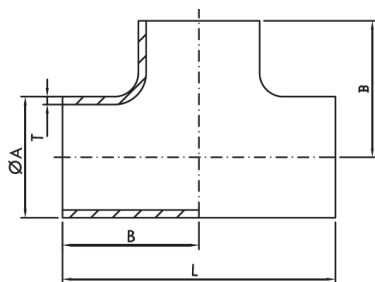
Size	A / D / mm /	B / mm /	H / mm /	Order No.
1" / 1/2"	25.4 / 12.7	114.3	108.5	A15140250152XX
1" / 1"	25.4 / 25.4	114.3	108.5	A15140250252XX
1 1/2" / 1/2"	38.1 / 12.7	152.4	173.7	A15140400152XX
1 1/2" / 1"	38.1 / 25.4	152.4	173.7	A15140400252XX
1 1/2" / 1 1/2"	38.1 / 38.1	152.4	174.1	A15140400402XX
2" / 1/2"	50.8 / 12.7	152.4	206.2	A15140500152XX
2" / 1"	50.8 / 25.4	152.4	206.2	A15140500252XX
2" / 1 1/2"	50.8 / 38.1	152.4	206.2	A15140500402XX
2" / 2"	50.8 / 50.8	152.4	206.5	A15140500502XX

Bend 180° Outlet - Welded/Clamp



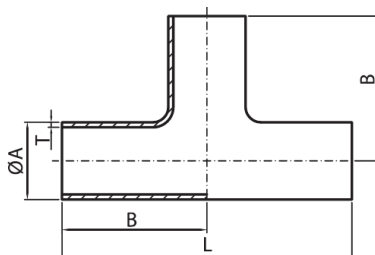
Size	A / D / mm /	B / mm /	H / mm /	Order No.
1" / 1/2"	25.4 / 12.7	114.3	102.1	A15240250152XX
1" / 1"	25.4 / 25.4	114.3	102.1	A15240250252XX
1 1/2" / 1/2"	38.1 / 12.7	152.4	148.3	A15240400152XX
1 1/2" / 1"	38.1 / 25.4	152.4	148.5	A15240400252XX
1 1/2" / 1 1/2"	38.1 / 38.1	152.4	148.5	A15240400402XX
2" / 1/2"	50.8 / 12.7	152.4	168.1	A15240500152XX
2" / 1"	50.8 / 25.4	152.4	168.1	A15240500252XX
2" / 1 1/2"	50.8 / 38.1	152.4	168.4	A15240500402XX
2" / 2"	50.8 / 50.8	152.4	168.4	A15240500502XX

Tee Short - Welded



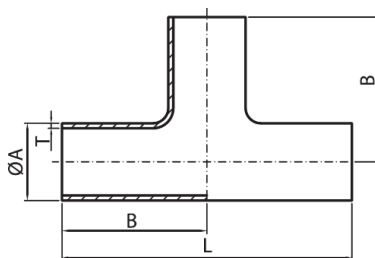
Size	A x T / mm /	B / mm /	L / mm /	Order No.
3/4 "	19.1 x 1.65	25.40	50.8	A03040200002XX
1 "	25.4 x 1.65	28.60	57.2	A03040250002XX
1 1/2 "	38.1 x 1.65	42.10	84.1	A03040400002XX
2 "	50.8 x 1.65	52.40	104.7	A03040500002XX
2 1/2 "	63.5 x 1.65	59.60	119.1	A03040650002XX
3 "	76.2 x 1.65	65.90	131.8	A03040800002XX
4 "	101.6 x 2.11	87.35	174.1	A03041000002XX

Tee Long - Welded



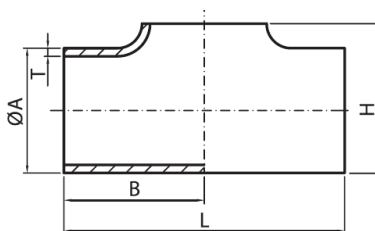
Size	A x T / mm /	B / mm /	L / mm /	Order No.
1/2 "	12.7 x 1.65	19.1	38.1	A03140150002XX
3/4 "	19.1 x 1.65	47.6	95.2	A03140200002XX
1 "	25.4 x 1.65	47.6	95.2	A03140250002XX
1 1/2 "	38.1 x 1.65	57.2	114.4	A03140400002XX
2 "	50.8 x 1.65	76.2	152.4	A03140500002XX
2 1/2 "	63.5 x 1.65	76.2	152.4	A03140650002XX
3 "	76.2 x 1.65	82.6	165.2	A03140800002XX
4 "	101.6 x 2.11	98.4	196.8	A03141000002XX
6 "	152.4 x 2.11	127.0	254.0	A03141500002XX

Tee Lengthen - Welded



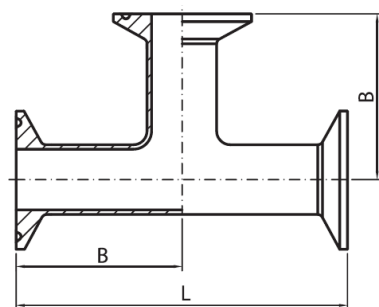
Size	A x T / mm /	B / mm /	L / mm /	Order No.
1/4 "	6.35 x 0.89	44.5	89.0	A03240080002XX
3/8 "	12.7 x 1.65	44.5	89.0	A03240100002XX
1/2 "	19.1 x 1.65	47.6	95.2	A03240150002XX
3/4 "	25.4 x 1.65	50.8	101.6	A03240200002XX
1 "	38.1 x 1.65	54.0	108.0	A03240250002XX
1 1/2 "	50.8 x 1.65	60.3	120.6	A03240400002XX
2 "	63.5 x 1.65	73.0	146.0	A03240500002XX
2 1/2 "	76.2 x 1.65	79.4	158.8	A03240650002XX
3 "	101.6 x 2.11	85.7	171.4	A03240800002XX
4 "	152.4 x 2.11	104.8	209.6	A03241000002XX

Tee Short Outlet - Welded



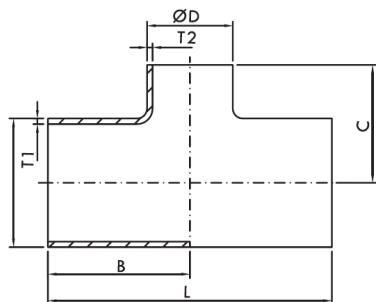
Size	A x T / mm /	H / mm /	L / mm /	Order No.
3/4 "	25.4 x 1.65	19.8	50.8	A03340200002XX
1 "	38.1 x 1.65	27.0	57.2	A03340250002XX
1 1/2 "	50.8 x 1.65	40.5	84.1	A03340400002XX
2 "	63.5 x 1.65	54.0	104.7	A03340500002XX
2 1/2 "	76.2 x 1.65	67.0	119.1	A03340650002XX
3 "	101.6 x 2.11	79.5	131.8	A03340800002XX
4 "	152.4 x 2.11	105.5	174.7	A03341000002XX

Tee - Clamp



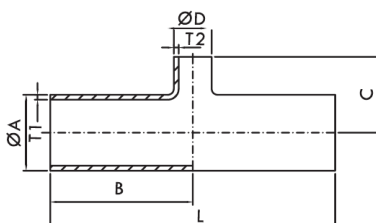
Size	B / mm /	L / mm /	Order No.
1/2 "	31.6	63.2	A03440150002XX
3/4 "	60.3	120.7	A03440200002XX
1 "	60.3	120.7	A03440250002XX
1 1/2 "	69.9	139.7	A03440400002XX
2 "	88.9	177.8	A03440500002XX
2 1/2 "	88.9	177.8	A03440650002XX
3 "	95.3	190.5	A03440800002XX
4 "	114.3	228.6	A03441000002XX

Tee Reducing Short - Welded



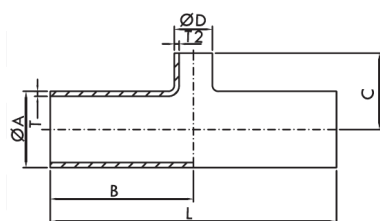
Size	B / mm /	C / mm /	L / mm /	Order No.
1" x 1/2"	28.6	29.2	57.2	A04040250152XX
1" x 3/4"	28.6	29.2	57.2	A04040250202XX
1 1/2" x 1/2"	42.1	36.6	84.1	A04040400152XX
1 1/2" x 3/4"	42.1	36.6	84.1	A04040400202XX
1 1/2" x 1"	42.1	34.9	84.1	A04040400252XX
2" x 3/4"	52.4	44.1	104.8	A04040500202XX
2" x 1"	52.4	41.3	104.8	A04040500252XX
2" x 1 1/2"	52.4	48.4	104.8	A04040500402XX
2 1/2" x 1"	59.6	47.6	119.1	A04040650252XX
2 1/2" x 1 1/2"	59.6	54.8	119.1	A04040650402XX
2 1/2" x 2"	59.6	58.7	119.1	A04040650502XX
3" x 1/4"	65.9	61.1	131.8	A04040800082XX
3" x 1/2"	65.9	61.1	131.8	A04040800152XX
3" x 3/4"	65.9	61.1	131.8	A04040800202XX
3" x 1"	65.9	61.1	131.8	A04040800252XX
3" x 1 1/2"	65.9	61.1	131.8	A04040800402XX
3" x 2"	65.9	65.1	131.8	A04040800502XX
3" x 2 1/2"	87.3	65.9	131.8	A04040800652XX
4" x 1"	87.3	66.8	174.6	A04041000252XX
4" x 1 1/2"	87.3	73.8	174.6	A04041000402XX
4" x 2"	87.3	77.8	174.6	A04041000502XX
4" x 2 1/2"	87.3	78.6	174.6	A04041000652XX
4" x 3"	87.3	78.6	174.6	A04041000802XX

Tee Reducing Long - Welded



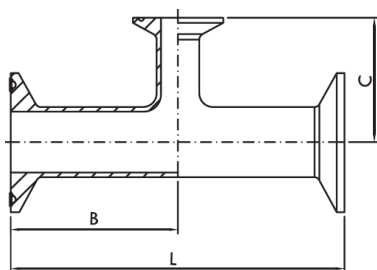
Size	B / mm /	C / mm /	L / mm /	Order No.
1" x 1/2"	47.8	25.4	95.5	A04140250152XX
1" x 3/4"	47.8	28.2	95.5	A04140250202XX
1 1/2" x 1/2"	57.2	31.8	114.3	A04140400152XX
1 1/2" x 3/4"	57.2	35.1	114.3	A04140400202XX
1 1/2" x 1"	57.2	54.1	114.3	A04140400252XX
2" x 1/2"	76.2	38.1	152.4	A04140500202XX
2" x 3/4"	76.2	41.4	152.4	A04140500252XX
2" x 1"	76.2	60.3	152.4	A04140500402XX
2" x 1 1/2"	76.2	63.5	152.4	A04140650252XX
2 1/2" x 1 1/2"	76.2	69.9	152.4	A04140650402XX
2 1/2" x 2"	76.2	82.6	152.4	A04140650502XX
3" x 1 1/2"	82.6	76.2	165.1	A04140800402XX
3" x 2"	82.6	88.9	165.1	A04140800502XX
3" x 2 1/2"	82.6	82.6	165.1	A04140800652XX
4" x 1 1/2"	98.6	88.9	197.1	A04141000402XX
4" x 2"	98.6	101.6	197.1	A04141000502XX
4" x 2 1/2"	98.6	95.3	197.1	A04141000652XX
4" x 3"	98.6	95.3	197.1	A04141000802XX
6" x 4"	127.1	123.7	254.0	A04141501002XX

Tee Reducing Lengthen - Welded



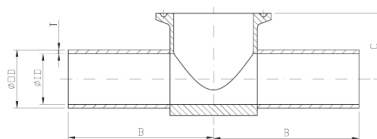
Size	B / mm /	C / mm /	L / mm /	Order No.
1/2" x 3/8"	47.6	47.6	95.2	A04240150102XX
3/4" x 1/4"	50.8	50.8	101.6	A04240200082XX
3/4" x 3/8"	50.8	50.8	101.6	A04240200102XX
3/4" x 1/2"	50.8	50.8	101.6	A04240200152XX
1" x 1/4"	54.0	54.0	108.0	A04240250082XX
1" x 3/8"	54.0	54.0	108.0	A04240250102XX
1" x 1/2"	54.0	54.0	108.0	A04240250152XX
1" x 3/4"	54.0	54.0	108.0	A04240250202XX
1 1/2" x 1/4"	60.3	60.3	120.6	A04240400082XX
1 1/2" x 3/8"	60.3	60.3	120.6	A04240400102XX
1 1/2" x 1/2"	60.3	60.3	120.6	A04240400152XX
1 1/2" x 3/4"	60.3	60.3	120.6	A04240400202XX
1 1/2" x 1"	60.3	60.3	120.6	A04240400252XX
2" x 1/4"	73.0	66.7	146.0	A04240500082XX
2" x 3/8"	73.0	66.7	146.0	A04240500102XX
2" x 1/2"	73.0	66.7	146.0	A04240500152XX
2" x 3/4"	73.0	66.7	146.0	A04240500202XX
2" x 1"	73.0	66.7	146.0	A04240500252XX
2" x 1 1/2"	73.0	66.7	146.0	A04240500402XX
2 1/2" x 3/8"	79.4	73.0	158.8	A04240650102XX
2 1/2" x 1/2"	79.4	73.0	158.8	A04240650152XX
2 1/2" x 3/4"	79.4	73.0	158.8	A04240650202XX
2 1/2" x 1"	79.4	73.0	158.8	A04240650252XX
2 1/2" x 1 1/2"	79.4	73.0	158.8	A04240650402XX
2 1/2" x 2"	79.4	73.0	158.8	A04240650502XX
3" x 1/2"	85.7	79.4	171.4	A04240800152XX
3" x 3/4"	85.7	79.4	171.4	A04240800202XX
3" x 1"	85.7	79.4	171.4	A04240800252XX
3" x 1 1/2"	85.7	79.4	171.4	A04240800402XX
3" x 2"	85.7	79.4	171.4	A04240800502XX
3" x 2 1/2"	85.7	79.4	171.4	A04240800652XX
4" x 1/2"	104.8	92.1	209.6	A04241000152XX
4" x 3/4"	104.8	92.1	209.6	A04241000202XX
4" x 1"	104.8	92.1	209.6	A04241000252XX
4" x 1 1/2"	104.8	92.1	209.6	A04241000402XX
4" x 2"	104.8	98.4	209.6	A04241000502XX
4" x 2 1/2"	104.8	98.4	209.6	A04241000652XX
4" x 3"	104.8	98.4	209.6	A04241000802XX
6" x 3/4"	142.9	123.8	285.8	A04241500202XX
6" x 1"	142.9	123.8	285.8	A04241500252XX
6" x 1 1/2"	142.9	123.8	285.8	A04241500402XX
6" x 2"	142.9	123.8	285.8	A04241500502XX
6" x 2 1/2"	142.9	123.8	285.8	A04241500652XX
6" x 3"	142.9	123.8	285.8	A04241500802XX
6" x 4"	142.9	130.2	285.8	A04241501002XX

Tee Reducing - Clamp



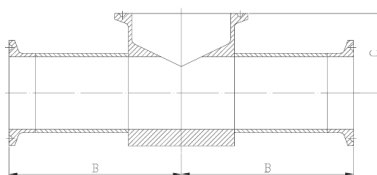
Size	B / mm /	C / mm /	L / mm /	Order No.
1 1/2" x 1"	54.75	46.0	109.5	A04240400252XX
2" x 1"	65.10	54.0	130.2	A04240500252XX
2" x 1 1/2"	65.10	61.0	130.2	A04240500402XX
2 1/2" x 1 1/2"	72.25	71.4	144.5	A04240650402XX
2 1/2" x 2"	72.25	71.4	144.5	A04240650502XX
3" x 1"	78.60	77.8	157.2	A04240800252XX
3" x 1 1/2"	78.60	77.8	157.2	A04240800402XX
3" x 2"	78.60	77.8	157.2	A04240800502XX
3" x 2 1/2"	78.60	77.8	157.2	A04240800652XX
4" x 1 1/2"	103.20	123.8	206.4	A04241000152XX
4" x 3/4"	103.20	123.8	206.4	A04241000202XX
4" x 1"	103.20	123.8	206.4	A04241000252XX
4" x 1 1/2"	103.20	123.8	206.4	A04241000402XX
4" x 2"	103.20	123.8	206.4	A04241000502XX
4" x 2 1/2"	103.20	123.8	206.4	A04241000652XX
4" x 3"	103.20	123.8	206.4	A04241000802XX

Tee Instrument - Welded/Clamp



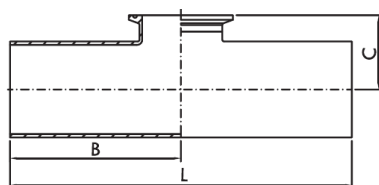
Size	ODxT / mm /	B / mm /	C / mm /	Order No.
1/2" x 1 1/2"	12.70 x 1.65	63.5	22.20	A04340150402XX
3/4" x 1 1/2"	19.05 x 1.65	63.5	25.40	A04340200402XX
1" x 1 1/2"	25.40 x 1.65	63.5	28.60	A04340250402XX
1/2" x 2"	12.70 x 1.65	69.9	25.40	A04340150502XX
3/4" x 2"	16.05 x 1.65	69.9	28.60	A04340400502XX
1" x 2"	25.40 x 1.65	69.9	31.75	A04340250502XX
1 1/2" x 2"	38.10 x 1.65	69.9	38.10	A04340400502XX

Tee Instrument - Clamp



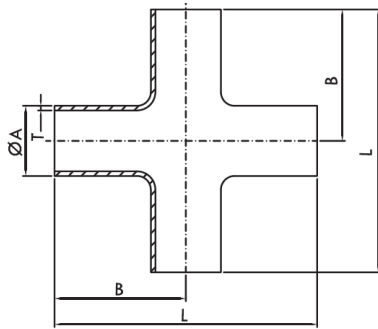
Size	ODxT / mm /	B / mm /	C / mm /	Order No.
1/2" x 1 1/2"	12.70 x 1.65	76.2	22.20	A04440150402XX
3/4" x 1 1/2"	19.05 x 1.65	76.2	25.40	A04440200402XX
1" x 1 1/2"	25.40 x 1.65	76.2	28.60	A04440250402XX
1/2" x 2"	12.70 x 1.65	82.6	25.40	A04440150502XX
3/4" x 2"	16.05 x 1.65	82.6	28.60	A04440400502XX
1" x 2"	25.40 x 1.65	82.6	31.75	A04440250502XX
1 1/2" x 2"	38.10 x 1.65	82.6	38.10	A04440400502XX

Tee Reducing – Weld/Clamp



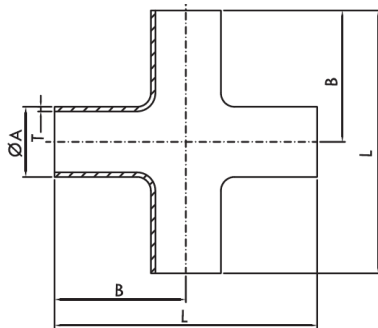
Size	B / mm /	C / mm /	L / mm /	Order No.
3/4" x 1/2"	50.8	25.4	101.6	A04540200152XX
1" x 1/2"	54.0	28.6	108.0	A04540250102XX
1" x 3/4"	54.0	28.6	108.0	A04540250152XX
1 1/2" x 1/2"	60.3	34.9	120.6	A04540400152XX
1 1/2" x 3/4"	60.3	34.9	120.6	A04540400202XX
1 1/2" x 1"	60.3	34.9	120.6	A04540400252XX
2" x 1/2"	73.0	41.3	146.0	A04540500152XX
2" x 3/4"	73.0	41.3	146.0	A04540500202XX
2" x 1"	73.0	41.3	146.0	A04540500252XX
2" x 1 1/2"	73.0	41.3	146.0	A04540500402XX
2 1/2" x 1/2"	79.4	47.6	158.8	A04540650152XX
2 1/2" x 3/4"	79.4	47.6	158.8	A04540650202XX
2 1/2" x 1"	79.4	47.6	158.8	A04540650252XX
2 1/2" x 1 1/2"	79.4	47.6	158.8	A04540650402XX
2 1/2" x 2"	79.4	47.6	158.8	A04540650502XX
3" x 1/2"	85.7	54.0	171.4	A04540800152XX
3" x 3/4"	85.7	54.0	171.4	A04540800202XX
3" x 1"	85.7	54.0	171.4	A04540800252XX
3" x 1 1/2"	85.7	54.0	171.4	A04540800402XX
3" x 2"	85.7	54.0	171.4	A04540800502XX
3" x 2 1/2"	85.7	54.0	171.4	A04540800652XX
4" x 1/2"	104.8	66.7	209.6	A04541000152XX
4" x 3/4"	104.8	66.7	209.6	A04541000202XX
4" x 1"	104.8	66.7	209.6	A04541000252XX
4" x 1 1/2"	104.8	66.7	209.6	A04541000402XX
4" x 2"	104.8	66.7	209.6	A04541000502XX
4" x 2 1/2"	104.8	66.7	209.6	A04541000652XX
4" x 3"	104.8	66.7	209.6	A04541000802XX
6" x 1/2"	142.9	92.1	285.8	A04541500202XX
6" x 1"	142.9	92.1	285.8	A04541500252XX
6" x 1 1/2"	142.9	92.1	285.8	A04541500402XX
6" x 2"	142.9	92.1	285.8	A04541500502XX
6" x 2 1/2"	142.9	92.1	285.8	A04541500652XX
6" x 3"	142.9	92.1	285.8	A04541500802XX
6" x 4"	142.9	92.1	285.8	A04541501002XX

Cross Long - Welded



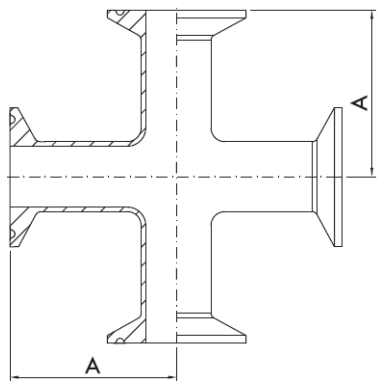
Size	A x T / mm /	B / mm /	L / mm /	Order No.
1/2 "	12.7 x 1.65	19.1	38.1	A22040150002XX
3/4 "	19.1 x 1.65	47.6	95.2	A22040200002XX
1 "	25.4 x 1.65	47.6	95.2	A22040250002XX
1 1/2 "	38.1 x 1.65	57.2	114.4	A22040400002XX
2 "	50.8 x 1.65	76.2	152.4	A22040500002XX
2 1/2 "	63.5 x 1.65	76.2	152.4	A22040650002XX
3 "	76.2 x 1.65	82.6	165.2	A22040800002XX
4 "	101.6 x 2.11	98.4	196.8	A22041000002XX
6 "	152.4 x 2.11	127.0	254.0	A22041500002XX

Cross Lengthen - Welded



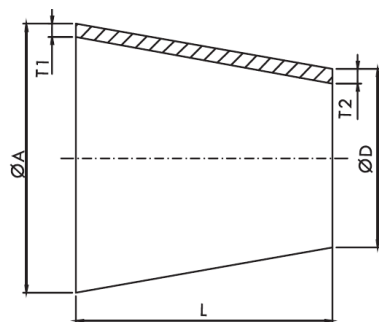
Size	A x T / mm /	B / mm /	L / mm /	Order No.
1/2 "	19.1 x 1.65	47.6	95.2	A22140150002XX
3/4 "	25.4 x 1.65	50.8	101.6	A22140200002XX
1 "	38.1 x 1.65	54.0	108.0	A22140250002XX
1 1/2 "	50.8 x 1.65	60.3	120.6	A22140400002XX
2 "	63.5 x 1.65	73.0	146.0	A22140500002XX
2 1/2 "	76.2 x 1.65	79.4	158.8	A22140650002XX
3 "	101.6 x 2.11	85.7	171.4	A22140800002XX
4 "	152.4 x 2.11	104.8	209.6	A22141000002XX

Cross - Clamp



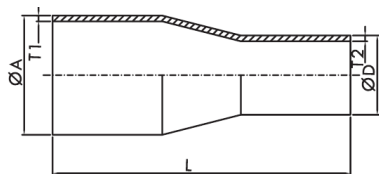
Size	A x T / mm /	B / mm /	L / mm /	Order No.
1/2 "	19.1 x 1.65	31.6	63.2	A22240150002XX
3/4 "	25.4 x 1.65	60.3	120.7	A22240200002XX
1 "	38.1 x 1.65	60.3	120.7	A22240250002XX
1 1/2 "	50.8 x 1.65	69.9	139.7	A22240400002XX
2 "	63.5 x 1.65	88.9	177.8	A22240500002XX
2 1/2 "	76.2 x 1.65	88.9	177.8	A22240650002XX
3 "	101.6 x 2.11	95.3	190.5	A22240800002XX
4 "	152.4 x 2.11	114.3	228.6	A22241000002XX

Concentric Reducer Short - Welded



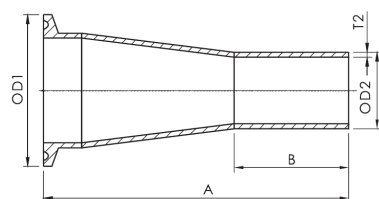
A	B	L / mm /	Order No.
1/2 "	1/4 "	25.4	A05040150082XX
1/2 "	3/8 "	25.4	A05040150102XX
3/4 "	3/8 "	25.4	A05040200082XX
3/4 "	1/2 "	25.4	A05040200152XX
1 "	3/8 "	38.1	A05040250102XX
1 "	1/2 "	38.1	A05040250152XX
1 "	3/4 "	25.4	A05040250202XX
1 1/2 "	3/8 "	76.2	A05040400102XX
1 1/2 "	1/2 "	63.5	A05040400152XX
1 1/2 "	3/4 "	50.8	A05040400202XX
1 1/2 "	1 "	50.8	A05040400252XX
2 "	1/2 "	114.3	A05040500152XX
2 "	3/4 "	114.3	A05040500202XX
2 "	1 "	101.6	A05040500252XX
2 "	1 1/2 "	50.8	A05040500402XX
2 1/2 "	1/2 "	165.1	A05040650152XX
2 1/2 "	3/4 "	152.4	A05040650202XX
2 1/2 "	1 "	152.4	A05040650252XX
2 1/2 "	1 1/2 "	101.6	A05040650402XX
2 1/2 "	2 "	50.8	A05040650502XX
3 "	1/2 "	215.9	A05040800152XX
3 "	3/4 "	203.2	A05040800202XX
3 "	1 "	203.2	A05040800252XX
3 "	1 1/2 "	152.4	A05040800402XX
3 "	2 "	101.6	A05040800502XX
3 "	2 1/2 "	50.8	A05040800652XX
4 "	1/2 "	355.6	A05041000152XX
4 "	3/4 "	330.2	A05041000202XX
4 "	1 "	304.8	A05041000252XX
4 "	1 1/2 "	254.0	A05041000402XX
4 "	2 "	203.2	A05041000502XX
4 "	2 1/2 "	152.4	A05041000652XX
4 "	3 "	101.6	A05041000802XX
6 "	3 "	139.7	A05041500802XX
6 "	4 "	139.7	A05041501002XX

Eccentric Reducer Long - Welded



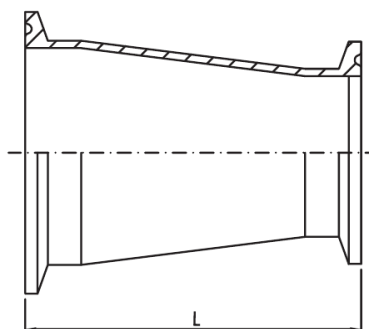
A	B	L / mm /	Order No.
1/2 "	3/8 "	101.6	A05140150102XX
3/4 "	1/2 "	101.6	A05140200152XX
1 "	3/8 "	114.3	A05140250102XX
1 "	1/2 "	114.3	A05140250152XX
1 "	3/4 "	101.6	A05140250202XX
1 1/2 "	1/2 "	139.7	A05140400152XX
1 1/2 "	3/4 "	127.0	A05140400202XX
1 1/2 "	1 "	127.0	A05140400252XX
2 "	1/2 "	196.9	A05140500152XX
2 "	3/4 "	184.2	A05140500202XX
2 "	1 "	184.2	A05140500252XX
2 "	1 1/2 "	133.4	A05140500402XX
2 1/2 "	1/2 "	247.7	A05140650152XX
2 1/2 "	3/4 "	235.0	A05140650202XX
2 1/2 "	1 "	235.0	A05140650252XX
2 1/2 "	1 1/2 "	184.2	A05140650402XX
2 1/2 "	2 "	139.7	A05140650502XX
3 "	1/2 "	298.5	A05140800152XX
3 "	3/4 "	285.8	A05140800202XX
3 "	1 "	285.8	A05140800252XX
3 "	1 1/2 "	235.0	A05140800402XX
3 "	2 "	190.5	A05140800502XX
3 "	2 1/2 "	139.7	A05140800652XX
4 "	1/2 "	406.4	A05141000152XX
4 "	3/4 "	393.7	A05141000202XX
4 "	1 "	342.9	A05141000252XX
4 "	1 1/2 "	342.9	A05141000402XX
4 "	2 "	298.5	A05141000502XX
4 "	2 1/2 "	247.7	A05141000652XX
4 "	3 "	196.9	A05141000802XX
6 "	3 "	247.7	A05141500802XX
6 "	4 "	254.0	A05141501002XX

Concentric Reducer - Weld/Clamp



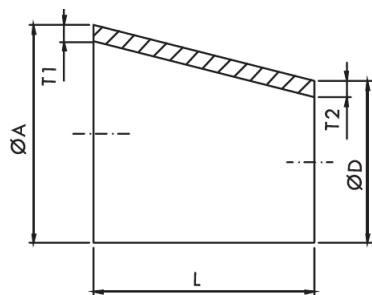
OD1	OD2	A / mm /	B / mm /	Order No.
3/4 "	1/2 "	76.2	38.1	A05240200152XX
1 "	1/2 "	88.9	38.1	A05240250152XX
1 "	3/4 "	76.2	38.1	A05240250202XX
1 1/2 "	1/2 "	114.3	38.1	A05240400152XX
1 1/2 "	3/4 "	101.6	38.1	A05240400202XX
1 1/2 "	1 "	101.6	38.1	A05240400252XX
2 "	1/2 "	165.1	38.1	A05240500152XX
2 "	3/4 "	152.4	38.1	A05240500202XX
2 "	1 "	152.4	38.1	A05240500252XX
2 "	1 1/2 "	101.6	38.1	A05240500402XX
2 1/2 "	1 "	203.2	38.1	A05240650252XX
2 1/2 "	1 1/2 "	152.4	38.1	A05240650402XX
2 1/2 "	2 "	108.0	44.5	A05240650502XX
3 "	1 "	254.0	38.1	A05240800252XX
3 "	1 1/2 "	203.2	38.1	A05240800402XX
3 "	2 "	158.8	44.5	A05240800502XX
3 "	2 1/2 "	108.0	44.5	A05240800652XX
4 "	1 "	358.8	38.2	A05241000252XX
4 "	1 1/2 "	308.0	38.2	A05241000402XX
4 "	2 "	263.5	44.5	A05241000502XX
4 "	2 1/2 "	212.7	44.5	A05241000652XX

Concentric Reducer - Clamp



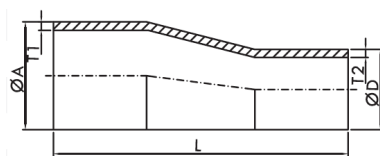
OD1	OD2	L / mm /	Order No.
3/4 "	1/2 "	50.8	A05340200152XX
1 "	1/2 "	63.5	A05340250152XX
1 "	3/4 "	50.8	A05340250202XX
1 1/2 "	1/2 "	88.9	A05340400152XX
1 1/2 "	3/4 "	76.2	A05340400202XX
1 1/2 "	1 "	76.2	A05340400252XX
2 "	1/2 "	139.7	A05340500152XX
2 "	3/4 "	127.0	A05340500202XX
2 "	1 "	127.0	A05340500252XX
2 "	1 1/2 "	76.2	A05340500402XX
2 1/2 "	1 "	177.8	A05340650252XX
2 1/2 "	1 1/2 "	127.0	A05340650402XX
2 1/2 "	2 "	76.2	A05340650502XX
3 "	3/4 "	228.6	A05340800252XX
3 "	1 1/2 "	117.8	A05340800402XX
3 "	2 "	127.0	A05340800502XX
3 "	2 1/2 "	76.2	A05340800652XX
4 "	1 "	333.4	A05341000252XX
4 "	1 1/2 "	282.6	A05341000402XX
4 "	2 "	231.8	A05341000502XX
4 "	2 1/2 "	181.0	A05341000652XX

Eccentric Reducer Short - Welded



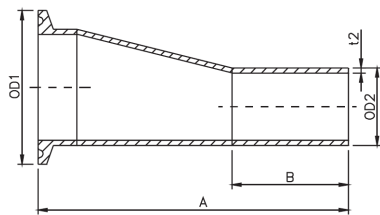
A	B	L / mm /	Order No.
1/2 "	1/4 "	25.4	A06040150082XX
1/2 "	3/8 "	25.4	A06040150102XX
3/4 "	3/8 "	25.4	A06040200082XX
3/4 "	1/2 "	25.4	A06040200152XX
1 "	3/8 "	38.1	A06040250102XX
1 "	1/2 "	38.1	A06040250152XX
1 "	3/4 "	25.4	A06040250202XX
1 1/2 "	3/8 "	76.2	A06040400102XX
1 1/2 "	1/2 "	63.5	A06040400152XX
1 1/2 "	3/4 "	50.8	A06040400202XX
1 1/2 "	1 "	50.8	A06040400252XX
2 "	1/2 "	114.3	A06040500152XX
2 "	3/4 "	114.3	A06040500202XX
2 "	1 "	101.6	A06040500252XX
2 "	1 1/2 "	50.8	A06040500402XX
2 1/2 "	1/2 "	165.1	A06040650152XX
2 1/2 "	3/4 "	152.4	A06040650202XX
2 1/2 "	1 "	152.4	A06040650252XX
2 1/2 "	1 1/2 "	101.6	A06040650402XX
2 1/2 "	2 "	50.8	A06040650502XX
3 "	1/2 "	215.9	A06040800152XX
3 "	3/4 "	203.2	A06040800202XX
3 "	1 "	203.2	A06040800252XX
3 "	1 1/2 "	152.4	A06040800402XX
3 "	2 "	101.6	A06040800502XX
3 "	2 1/2 "	50.8	A06040800652XX
4 "	1/2 "	355.6	A06041000152XX
4 "	3/4 "	330.2	A06041000202XX
4 "	1 "	304.8	A06041000252XX
4 "	1 1/2 "	254.0	A06041000402XX
4 "	2 "	203.2	A06041000502XX
4 "	2 1/2 "	152.4	A06041000652XX
4 "	3 "	101.6	A06041000802XX
6 "	3 "	139.7	A06041500802XX
6 "	4 "	139.7	A06041501002XX

Eccentric Reducer Long - Welded



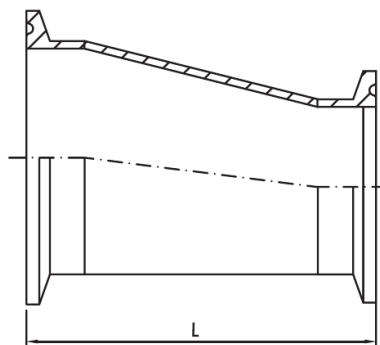
A	B	L / mm /	Order No.
1/2 "	3/8 "	101.6	A06140150102XX
3/4 "	1/2 "	101.6	A06140200152XX
1 "	3/8 "	114.3	A06140250102XX
1 "	1/2 "	114.3	A06140250152XX
1 "	3/4 "	101.6	A06140250202XX
1 1/2 "	1/2 "	139.7	A06140400152XX
1 1/2 "	3/4 "	127.0	A06140400202XX
1 1/2 "	1 "	127.0	A06140400252XX
2 "	1/2 "	196.9	A06140500152XX
2 "	3/4 "	184.2	A06140500202XX
2 "	1 "	184.2	A06140500252XX
2 "	1 1/2 "	133.4	A06140500402XX
2 1/2 "	1/2 "	247.7	A06140650152XX
2 1/2 "	3/4 "	235.0	A06140650202XX
2 1/2 "	1 "	235.0	A06140650252XX
2 1/2 "	1 1/2 "	184.2	A06140650402XX
2 1/2 "	2 "	139.7	A06140650502XX
3 "	1/2 "	298.5	A06140800152XX
3 "	3/4 "	285.8	A06140800202XX
3 "	1 "	285.8	A06140800252XX
3 "	1 1/2 "	235.0	A06140800402XX
3 "	2 "	190.5	A06140800502XX
3 "	2 1/2 "	139.7	A06140800652XX
4 "	1/2 "	406.4	A06141000152XX
4 "	3/4 "	393.7	A06141000202XX
4 "	1 "	342.9	A06141000252XX
4 "	1 1/2 "	342.9	A06141000402XX
4 "	2 "	298.5	A06141000502XX
4 "	2 1/2 "	247.7	A06141000652XX
4 "	3 "	196.9	A06141000802XX
6 "	3 "	247.7	A06141500802XX
6 "	4 "	254.0	A06141501002XX

Eccentric Reducer - Weld/Clamp



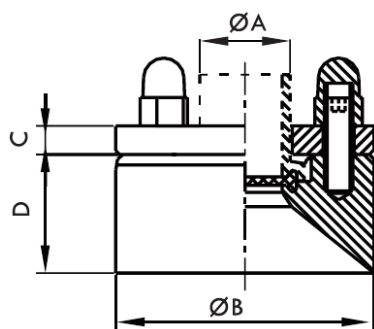
OD1	OD2	A / mm /	B / mm /	Order No.
3/4 "	1/2 "	76.2	38.1	A06240200152XX
1 "	1/2 "	88.9	38.1	A06240250152XX
1 "	3/4 "	76.2	38.1	A06240250202XX
1 1/2 "	1/2 "	114.3	38.1	A06240400152XX
1 1/2 "	3/4 "	101.6	38.1	A06240400202XX
1 1/2 "	1 "	101.6	38.1	A06240400252XX
2 "	1/2 "	165.1	38.1	A06240500152XX
2 "	3/4 "	152.4	38.1	A06240500202XX
2 "	1 "	152.4	38.1	A06240500252XX
2 "	1 1/2 "	101.6	38.1	A06240500402XX
2 1/2 "	1 "	203.2	38.1	A06240650252XX
2 1/2 "	1 1/2 "	152.4	38.1	A06240650402XX
2 1/2 "	2 "	108.0	44.5	A06240650502XX
3 "	1 "	254.0	38.1	A06240800252XX
3 "	1 1/2 "	203.2	38.1	A06240800402XX
3 "	2 "	158.8	44.5	A06240800502XX
3 "	2 1/2 "	108.0	44.5	A06240800652XX
4 "	1 "	358.8	38.2	A06241000252XX
4 "	1 1/2 "	308.0	38.2	A06241000402XX
4 "	2 "	263.5	44.5	A06241000502XX
4 "	2 1/2 "	212.7	44.5	A06241000652XX

Eccentric Reducer - Clamp



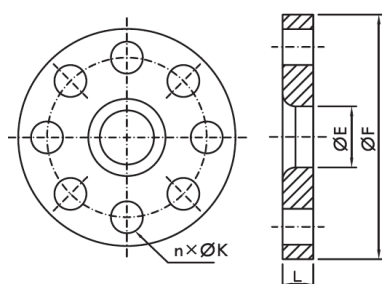
OD1	OD2	L / mm /	Order No.
3/4 "	1/2 "	50.8	A06340200152XX
1 "	1/2 "	63.5	A06340250152XX
1 "	3/4 "	50.8	A06340250202XX
1 1/2 "	1/2 "	88.9	A06340400152XX
1 1/2 "	3/4 "	76.2	A06340400202XX
1 1/2 "	1 "	76.2	A06340400252XX
2 "	1/2 "	139.7	A06340500152XX
2 "	3/4 "	127.0	A06340500202XX
2 "	1 "	127.0	A06340500252XX
2 "	1 1/2 "	76.2	A06340500402XX
2 1/2 "	1 "	177.8	A06340650252XX
2 1/2 "	1 1/2 "	127.0	A06340650402XX
2 1/2 "	2 "	76.2	A06340650502XX
3 "	3/4 "	228.6	A06340800252XX
3 "	1 1/2 "	117.8	A06340800402XX
3 "	2 "	127.0	A06340800502XX
3 "	2 1/2 "	76.2	A06340800652XX
4 "	1 "	333.4	A06341000252XX
4 "	1 1/2 "	282.6	A06341000402XX
4 "	2 "	231.8	A06341000502XX
4 "	2 1/2 "	181.0	A06341000652XX

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

Flange / 38SL Back-up Flange /



Size	A/F / mm /	L / mm /	n x K / mm /	Order No.
1/2"	14.3 / 88.9	9.5	4 x 15.9	A21040100002XX
3/4"	20.7 / 98.4	9.5	4 x 15.9	A21040200002XX
1"	27.0 / 108.0	9.5	4 x 15.9	A21040250002XX
1 1/2"	39.7 / 127.0	9.5	4 x 15.9	A21040400002XX
2"	52.4 / 152.4	11.1	4 x 19.1	A21040500002XX
2 1/2"	65.1 / 177.8	11.1	4 x 19.1	A21040650002XX
3"	77.8 / 190.5	12.7	4 x 19.1	A21040800002XX
4"	103.2 / 228.6	12.7	8 x 19.1	A21041000002XX
6"	154.0 / 279.4	14.3	8 x 22.2	A21041500002XX



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