

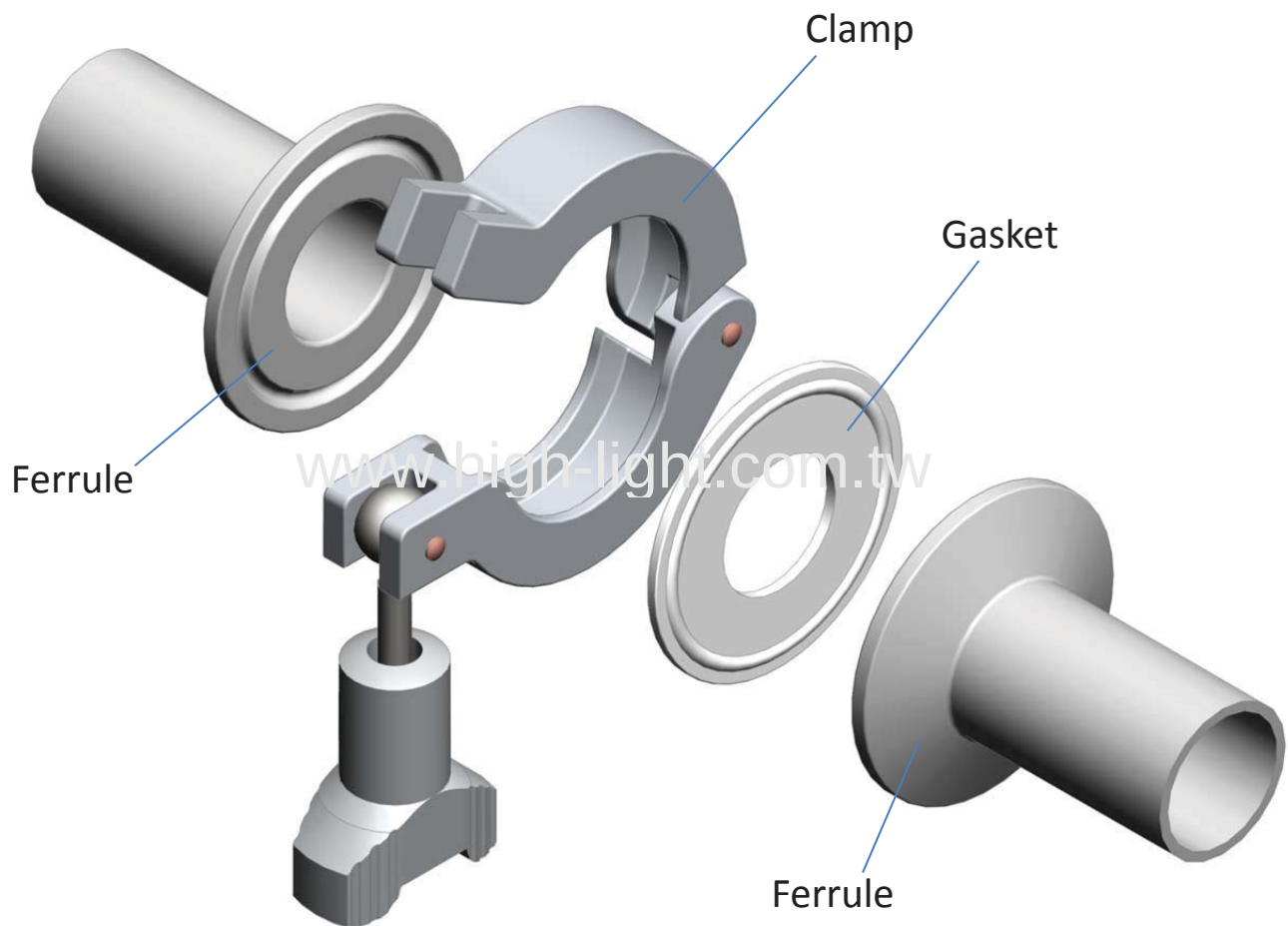
SANITARY FITTING

Clamp Fitting Series

<u>General Information</u>	<u>1-4</u>
<u>Blank</u>	<u>5-7</u>
<u>Ferrule</u>	<u>8-14</u>
<u>Gasket</u>	<u>15-16</u>
<u>Clamp</u>	<u>17-18</u>
<u>Adaptor</u>	<u>19-23</u>
<u>Fitting</u>	<u>24-26</u>
<u>Ball Valve</u>	<u>27</u>
<u>Butterfly Valve</u>	<u>28</u>



General Information



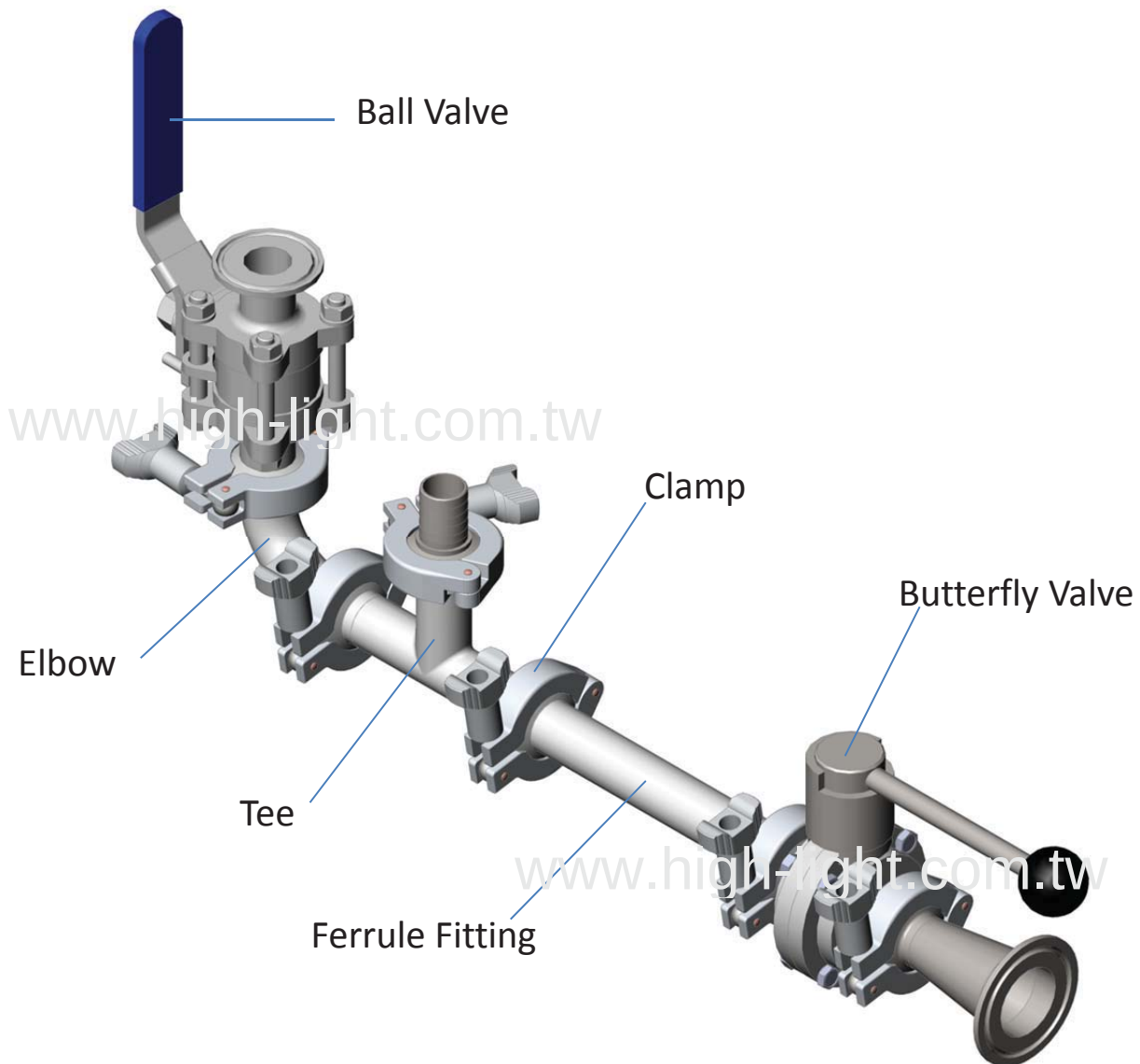
Features :

- Material : 316L stainless steel (304L also available) for clamp and ferrule, PTFE or Silicon for gasket.
- Tolerance : for ASME BEP tube and fitting's according to ASME BEP standard.
- Surface roughness : $Ra0.5\mu m \sim 0.76\mu m$ for mechanical polishing
 $Ra0.38\mu m \sim 0.63\mu m$ for mechanical polishing and elector- polishing
- Surface roughness: (for Sanitary pipe)
- Polishing can either as follow :
 1. ID/OD polishing
 2. Only ID polishing
 3. Only OD polishing
 4. Without polishing
- Roughness : #180~#400 ° ($Ra \leq 0.8\mu m$) according to customer's request.



CLAMP FITTINGS

Application for Clamp Fitting Components



Hygienic Stainless Steel Fittings are commonly used in food, beverage, brewery, dairy, biotech and pharmaceutical industries. They are ideal for pipe engineering which has to be dismantled for cleaning and sterilizing. Complies with standards of 3A , ISO, ASME, BEP, DIN, etc.



CLAMP FITTINGS

Table of Sanitary Pipe Depending on Dimension Standard

3A (3A Sanitary Standards)			ISO		DIN (DIN11850)			IDF			JIS G3447(1994)			JIS G3459		
size	O.D.	t	O.D.	t	size	O.D.	t	size	O.D.	t	size	O.D.	t	size	O.D.	t
-	-	-	-	-	-	-	-	-	-	-	-	-	-	8A	13.8	1.65
-	-	-	12	1	DN10	12	1	-	-	-	-	-	-	10A	17.3	1.65
-	-	-	17.2	1	15	18	1	-	-	-	-	-	-	15A	21.7	2.1
-	-	-	21.3	1	20	22	1	-	-	-	-	-	-	20A	27.2	2.1
1	25.4	1.25 1.65	25	1.2	25	28	1.5	1	25.4	1.2	1S	25.4	1.2	25A	34	2.8
-	-	-	33.7	1.2	32	34	1.5	1 1/4	31.8	1.2	1.25S	31.8	1.2	32A	42.7	2.8
1 1/2	38.1	1.25 1.65	38	1.2	-	-	-	1 1/2	38.1	1.2	1.5S	38.1	1.2	40A	48.6	2.8
-	-	-	40	1.2	40	40	1.5	-	-	-	-	-	-	-	-	-
2	50.8	1.65	51	1.2	50	52	1.5	2	50.8	1.5	2S	50.8	1.5	50A	60.5	2.8
2 1/2	63.5	1.65	63.5	1.6	-	-	-	2 1/2	63.5	2	2.5S	63.5	2	65A	76.3	3
-	-	-	70	1.6	65	70	2	-	-	-	-	-	-	-	-	-
3	76.2	1.65	76.1	1.6	-	-	-	3	76.2	2	3S	76.3	2	80A	89.1	3
-	-	-	88.9	2	80	85	2	3 1/2	89.1	2	3.5S	89.1	2	90A	101.6	3
4	101.6	1.65	101.6	2	100	104	2	4	101.6	2	4.0S	101.6	2	100A	114.3	3
-	-	-	114.3	2	125	129	2	-	-	-	4.5S	114.3	3	-	-	-
-	-	-	139.7	2	-	-	-	-	-	-	-	-	-	125A	139.8	3.4
-	-	-	168.3	2	150	154	2	-	-	-	5.5S	139.8	3	-	-	-
-	-	-	219.1	2.6	-	-	-	-	-	-	-	-	-	150A	165.2	3.4
-	-	-	273	2.6	-	-	-	-	-	-	6.5S	165.2	3	-	-	-
-	-	-	323.9	2.6	-	-	-	-	-	-	-	-	-	200A	216.3	3.4
-	-	-	355.6	2.6	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	406.4	3.2	-	-	-	-	-	-	-	-	-	-	-	-

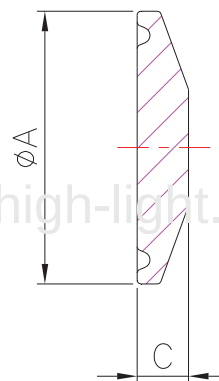


Information about Sanitary Pipe

SIZE	O.D.	t	Area of Inner Dia. mm ²	Cross-sectional Area of Pipe mm ²	Weight of Pipe Kg/m	Capacity of Liquid in Pipe l/m	Flow at Flow Rate 1m/sec m ³ /h
8A	13.8	1.65	87	63	0.499	0.11	0.396
10A	17.3	1.65	154	81.1	0.463	0.154	0.554
15A	21.7	2.1	241	129	1.03	0.241	0.868
1S	25.4	1.2	415	91.2	0.723	0.415	1.49
1.25S	31.8	1.2	679	115	0.915	0.679	2.44
1.5S	38.1	1.2	1001	139	1.10	1	3.6
2S	50.8	1.5	1795	232	1.84	1.8	6.46
2.5S	63.5	2	2781	386	3.06	2.78	10
3S	76.3	2	4106	467	3.70	4.11	14.8
3.5S	89.1	2	5688	547	4.34	5.69	20.5
4S	101.6	2	7482	626	4.96	7.48	26.9
4.5S	114.3	3	9212	1049	8.32	9.21	33.2
5.5S	139.8	3	14061	1289	10.2	14.1	50.6
6.5S	165.2	3	19906	1529	12.1	19.9	71.7
200A	216.3	4	34078	2668	21.2	34.1	122.7



CLAMP FITTINGS

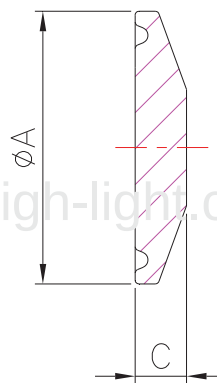


Inch Ferrule 3A-16AMP

Model No.	size	Material	A	C	P/N:
10/16-3A16AMP	1/2"~3/4"	316LS.S.	25	6	159102006
25-3A16AMP	1"	316LS.S.	50.5	6.3	159103006
40-3A16AMP	1.5"	316LS.S.	50.5	6.3	159105006
50-3A16AMP	2.0"	316LS.S.	64	6.3	159106006
63-3A16AMP	2.5"	316LS.S.	77.5	6.3	159107006
80-3A16AMP	3.0"	316LS.S.	91	6.3	159108006
100-3A16AMP	4.0"	316LS.S.	119	7.9	159109006
160-3A16AMP	6.0"	316LS.S.	166.8	11.1	159112006
200-3A16AMP	8.0"	316LS.S.	217.7	11.1	159113006
250-3A16AMP	10."	316LS.S.	268.5	11.1	159114006
320-3A16AMP	12."	316LS.S.	319.3	11.1	159116006



CLAMP FITTINGS

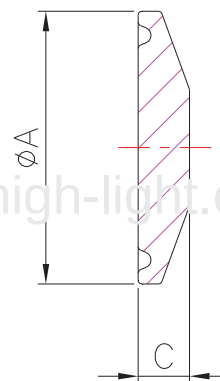


ISO Ferrule 16AMP

Model No.	size	Material	A	C	P/N:
6- ISO16AMP	DN8(1/4")	316LS.S.	34	6.3	159226006
9- ISO16AMP	DN10(3/8")	316LS.S.	34	6.3	159200006
10-ISO16AMP	DN15(1/2")	316LS.S.	34	6.3	159201006
16-ISO16AMP	DN20(3/4")	316LS.S.	50.5	6.3	159103006
25-ISO16AMP	DN25(1")	316LS.S.	50.5	6.3	159103006
32-ISO16AMP	DN32(1.25")	316LS.S.	50.5	6.3	159103006
40-ISO16AMP	DN40(1.5")	316LS.S.	64	6.3	159106006
50-ISO16AMP	DN50(2.0")	316LS.S.	77.5	6.3	159107006
63-ISO16AMP	DN65(2.5")	316LS.S.	91	6.3	159108006
80-ISO16AMP	DN80(3.0")	316LS.S.	106	6.3	159208006
100-ISO16AMP	DN100(4.0")	316LS.S.	130	7.9	159209006
125-ISO16AMP	DN125(5")	316LS.S.	155	7.9	159210006
160-ISO16AMP	DN150(6.0")	316LS.S.	183	11.1	159212006
200-ISO16AMP	DN200(8.0")	316LS.S.	233.5	11.1	159213006



CLAMP FITTINGS

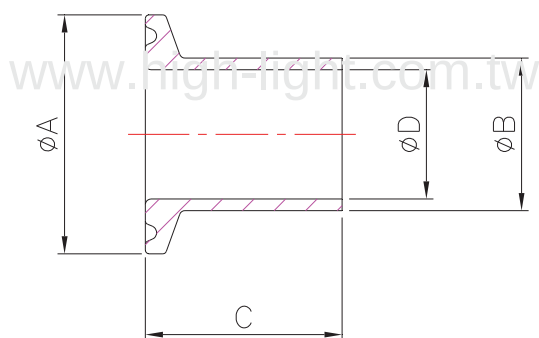


DIN Ferrule 16AMP

Model No.	size	Material	A	C	P/N:
9- DIN16AMP	DN10(3/8")	316LS.S.	34	6.3	159300006
10- DIN16AMP	DN15(1/2")	316LS.S.	34	6.3	159301006
16- DIN16AMP	DN20(3/4")	316LS.S.	34	6.3	159302006
25- DIN16AMP	DN25(1")	316LS.S.	50.5	6.3	159103006
32- DIN16AMP	DN32(1.25")	316LS.S.	50.5	6.3	159103006
40- DIN16AMP	DN40(1.5")	316LS.S.	50.5	6.3	159103006
50- DIN16AMP	DN50(2.0")	316LS.S.	64	6.3	159106006
63- DIN16AMP	DN65(2.5")	316LS.S.	77.5	6.3	159107006
80- DIN16AMP	DN80(3.0")	316LS.S.	91	6.3	159108006
100- DIN16AMP	DN100(4.0")	316LS.S.	119	7.9	159109006
125- DIN16AMP	DN125(5")	316LS.S.	155	7.9	159210006
160- DIN16AMP	DN150(6.0")	316LS.S.	183	11.1	159212006
200- DIN16AMP	DN200(8.0")	316LS.S.	233.5	11.1	159213006



CLAMP FITTINGS

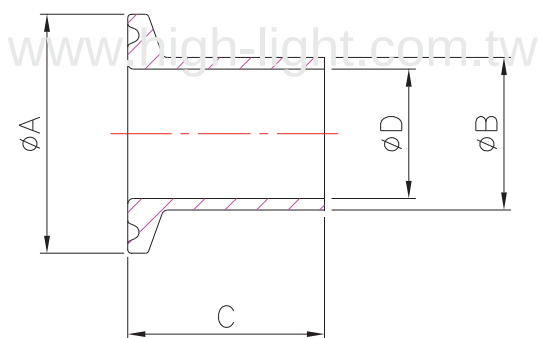


Inch Ferrule 3A-14WMP

Model No.	size	Material	A	B	C	D	P/N:
6-3A14WMP	1/4"	316LS.S.	25	6.35	12.7	3.9	159426046
10-3A14WMP	1/2"	316LS.S.	25	12.7	12.7	9.4	159401076
16-3A14WMP	3/4"	316LS.S.	25	19.05	12.7	15.7	159402096
25-3A14WMP	1"	316LS.S.	50.5	25.4	12.7	22.1	159403116
32-3A14WMP	1.25"	316LS.S.	50.5	31.75	12.7	28.45	159423126
40-3A14WMP	1.5"	316LS.S.	50.5	38.1	12.7	34.8	159405136
50-3A14WMP	2.0"	316LS.S.	64	50.8	12.7	47.5	159406146
63-3A14WMP	2.5"	316LS.S.	77.5	63.5	12.7	60.2	159407156
80-3A14WMP	3.0"	316LS.S.	91	76.2	12.7	72.9	159408166
100-3A14WMP	4.0"	316LS.S.	119	101.6	15.8	97.4	159409186



CLAMP FITTINGS

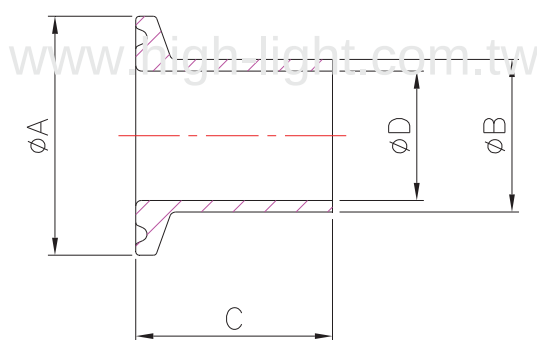


Inch Ferrule 3A-14MMP

Model No.	size	Material	A	B	C	D	P/N:
6-3A14MMP	1/4"	316LS.S.	25	6.35	21.5	3.9	159526046
10-3A14MMP	1/2"	316LS.S.	25	12.7	21.5	9.4	159501076
16-3A14MMP	3/4"	316LS.S.	25	19.05	21.5	15.7	159502096
25-3A14MMP	1"	316LS.S.	50.5	25.4	21.5	22.1	159503116
32-3A14MMP	1.25"	316LS.S.	50.5	31.75	21.5	28.45	159523126
40-3A14MMP	1.5"	316LS.S.	50.5	38.1	21.5	34.8	159505136
50-3A14MMP	2.0"	316LS.S.	64	50.8	21.5	47.5	159506146
63-3A14MMP	2.5"	316LS.S.	77.5	63.5	21.5	60.2	159507156
80-3A14MMP	3.0"	316LS.S.	91	76.2	21.5	72.9	159508166
100-3A14MMP	4.0"	316LS.S.	119	101.6	21.5	97.4	159509186
160-3A14MMP	6.0"	316LS.S.	166.87	152.5	21.5	146.86	159512206
200-3A14MMP	8.0"	316LS.S.	217.67	203.3	21.5	197.66	159513216
250-3A14MMP	10"	316LS.S.	268.47	254	21.5	247.2	159514226
320-3A14MMP	12"	316LS.S.	319.27	304.8	21.5	298	159516236



CLAMP FITTINGS

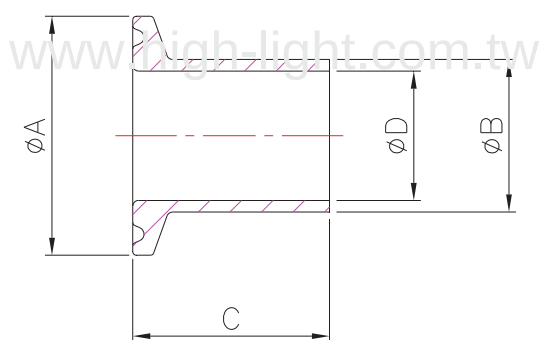


Inch Ferrule 3A-14AMP

Model No.	size	Material	A	B	C	D	P/N:
6-3A14AMP	1/4"	316LS.S.	25	6.35	28.6	3.9	159626046
10-3A14AMP	1/2"	316LS.S.	25	12.7	28.6	9.4	159601076
16-3A14AMP	3/4"	316LS.S.	25	19.05	28.6	15.7	159602096
25-3A14AMP	1"	316LS.S.	50.5	25.4	28.6	22.1	159603116
32-3A14AMP	1.25"	316LS.S.	50.5	31.75	28.6	28.45	159623126
40-3A14AMP	1.5"	316LS.S.	50.5	38.1	28.6	34.8	159605136
50-3A14AMP	2.0"	316LS.S.	64	50.8	28.6	47.5	159606146
63-3A14AMP	2.5"	316LS.S.	77.5	63.5	28.6	60.2	159607156
80-3A14AMP	3.0"	316LS.S.	91	76.2	28.6	72.9	159608166
100-3A14AMP	4.0"	316LS.S.	119	101.6	28.6	97.4	159609186
160-3A14AMP	6.0"	316LS.S.	166.87	152.5	28.6	146.86	159612206
160L-3A14AMP	6.0"	316LS.S.	166.87	152.5	38.1	146.86	159712206
200-3A14AMP	8.0"	316LS.S.	217.67	203.3	28.6	197.66	159613216
200L-3A14AMP	8.0"	316LS.S.	217.67	203.3	38.1	197.66	159713216
250-3A14AMP	10"	316LS.S.	268.47	254	28.6	247.2	159614226
250L-3A14AMP	10"	316LS.S.	268.47	254	38.1	247.2	159714226
320-3A14AMP	12"	316LS.S.	319.27	304.8	28.6	298	159616236
320L-3A14AMP	12"	316LS.S.	319.27	304.8	38.1	298	159716236



CLAMP FITTINGS

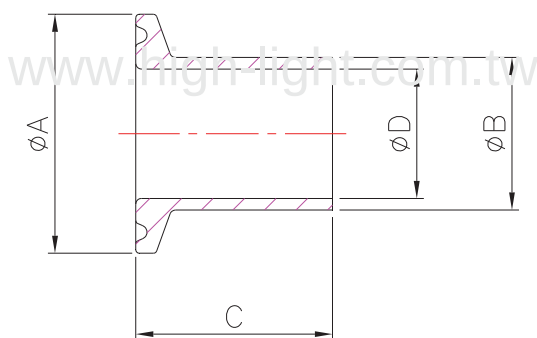


ISO Ferrule (Short)

Model No.	size	Material	A	B	C	D	P/N:
6-ISOFS	DN8(1/4")	316LS.S.	34	13.5	21.5	10.3	159726A26
9-ISOFS	DN10(3/8")	316LS.S.	34	17.5	21.5	14	159700A36
10- ISOFS	DN15(1/2")	316LS.S.	34	21.6	21.5	18.1	159701A46
16-ISOFS	DN20(3/4")	316LS.S.	50.5	26.9	21.5	23.7	159702A56
25-ISOFS	DN25(1")	316LS.S.	50.5	33.7	21.5	30.5	159703A66
32-ISOFS	DN32(1.25")	316LS.S.	50.5	42.4	21.5	39.2	159723A76
40-ISOFS	DN40(1.5")	316LS.S.	64	48.3	21.5	45.1	159704A86
50-ISOFS	DN50(2")	316LS.S.	77.5	60.3	21.5	56.3	159706A96
63-ISOFS	DN65(2.5")	316LS.S.	91	76.1	21.5	72.1	159707B16
80-ISOFS	DN80(3")	316LS.S.	106	88.9	21.5	84.9	159708B26
100-ISOFS	DN100(4")	316LS.S.	130	114.3	21.5	109.1	159709B46



CLAMP FITTINGS

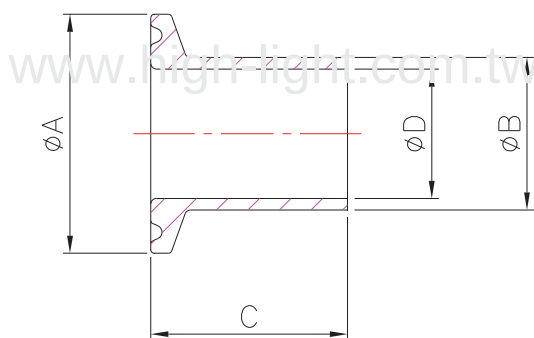


ISO Ferrule (Long)

Model No.	size	Material	A	B	C	D	P/N:
6-ISOFL	DN8(1/4")	316LS.S.	34	13.5	28.6	10.3	159826A26
9-ISOFL	DN10(3/8")	316LS.S.	34	17.5	28.6	14	159800A36
10-ISOFL	DN15(1/2")	316LS.S.	34	21.6	28.6	18.1	159801A46
16-ISOFL	DN20(3/4")	316LS.S.	50.5	26.9	28.6	23.7	159802A56
25-ISOFL	DN25(1")	316LS.S.	50.5	33.7	28.6	30.5	159803A66
32-ISOFL	DN32(1.25")	316LS.S.	50.5	42.4	28.6	39.2	159823A76
40-ISOFL	DN40(1.5")	316LS.S.	64	48.3	28.6	45.1	159804A86
50-ISOFL	DN50(2")	316LS.S.	77.5	60.3	28.6	56.3	159806A96
63-ISOFL	DN65(2.5")	316LS.S.	91	76.1	28.6	72.1	159807B16
80-ISOFL	DN80(3")	316LS.S.	106	88.9	28.6	84.9	159808B26
100-ISOFL	DN100(4")	316LS.S.	130	114.3	28.6	109.1	159809B46
125-ISOFL	DN125(5")	316LS.S.	155	139.7	28.6	133.7	159810B56
160-ISOFL	DN150(6")	316LS.S.	183	168.3	28.6	162.3	159812B66
200-ISOFL	DN200(8")	316LS.S.	233.5	219.1	28.6	211.1	159813B76



CLAMP FITTINGS

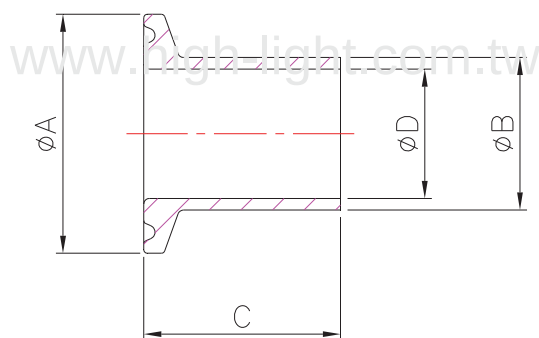


DIN Ferrule (Short)

Model No.	size	Material	A	B	C	D	P/N:
9-DINFS	DN10(3/8")	316LS.S.	34	12	21.5	9	159A00BC3
10-DINFS	DN15(1/2")	316LS.S.	34	18	21.5	15	159A01BD3
16-DINFS	DN20(3/4")	316LS.S.	34	22	21.5	19	159A02BE3
25-DINFS	DN25(1")	316LS.S.	50.5	28	21.5	25	159A03BF3
32-DINFS	DN32(1.25")	316LS.S.	50.5	34	21.5	31	159A23BG3
40-DINFS	DN40(1.5")	316LS.S.	50.5	40	21.5	37	159A05BH3
50-DINFS	DN50(2")	316LS.S.	64	52	21.5	49	159A06BJ3
63-DINFS	DN65(2.5")	316LS.S.	91	70	21.5	66	159A07BK3
80-DINFS	DN80(3")	316LS.S.	106	85	21.5	81	159A08BL3
100-DINFS	DN100(4")	316LS.S.	119	104	21.5	100	159A09BN3
125-DINFS	DN125(5")	316LS.S.	155	129	21.5	125	159A10BP3
160-DINFS	DN150(6")	316LS.S.	183	154	21.5	150	159A12BQ3



CLAMP FITTINGS

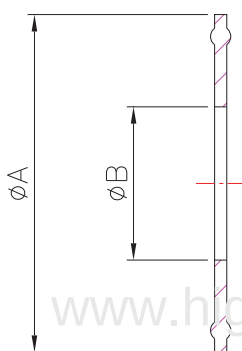


DIN Ferrule (Long)

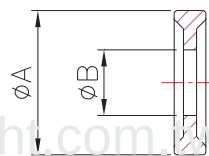
Model No.	size	Material	A	B	C	D	P/N:
9-DINFL	DN10(3/8")	316LS.S.	34	12	28.6	9	159B00BC6
10-DINFL	DN15(1/2")	316LS.S.	34	18	28.6	15	159B01BD6
16-DINFL	DN20(3/4")	316LS.S.	34	22	28.6	19	159B02BE6
25-DINFL	DN25(1")	316LS.S.	50.5	28	28.6	25	159B03BF6
32-DINFL	DN32(1.25")	316LS.S.	50.5	34	28.6	31	159B23BG6
40-DINFL	DN40(1.5")	316LS.S.	50.5	40	28.6	37	159B05BH6
50-DINFL	DN50(2")	316LS.S.	64	52	28.6	49	159B06BJ6
63-DINFL	DN65(2.5")	316LS.S.	91	70	28.6	66	159B07BK6
80-DINFL	DN80(3")	316LS.S.	106	85	28.6	81	159B08BL6
100-DINFL	DN100(4")	316LS.S.	119	104	28.6	100	159B09BN6
125-DINFL	DN125(5")	316LS.S.	155	129	28.6	125	159B10BP6
160-DINFL	DN150(6")	316LS.S.	183	154	28.6	150	159B12BQ6
200-DINFL	DN200(8")	316LS.S.	233.5	204	28.6	200	159B13BR6
250-DINFL	DN250(10")	316LS.S.	268.47	254	28.6	250	159B14BS6
320-DINFL	DN300(12")	316LS.S.	319.27	304	28.6	300	159B16BT6



CLAMP FITTINGS



F1



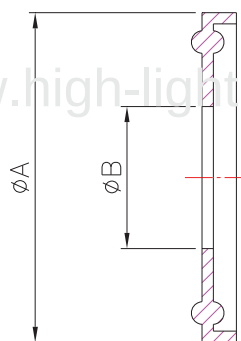
F2

Ferrule Gasket - Plain Type 13PG

Model No.	size	Material	Type	A	B	P/N:
10FGPT	1/2"	PTFE	F2	21.8	9.9	215103E13
16FGPT	3/4"	PTFE	F2	21.8	16.3	215105E13
25FGPT	1"	PTFE	F1	50	22.7	215106E13
32FGPT	1.25"	PTFE	F1	50.5	29.5	215126E13
40FGPT	1.5"	PTFE	F1	50	35.9	215108E13
50FGPT	2.0"	PTFE	F1	63.5	48.6	215109E13
63FGPT	2.5"	PTFE	F1	76.2	61.3	215110E13
80FGPT	3.0"	PTFE	F1	88.9	74	215111E13
100FGPT	4.0"	PTFE	F1	118	98.6	215112E13
160FGPT	6.0"	PTFE	F1	165	147.8	215115E13
200FGPT	8.0"	PTFE	F1	216	196.6	215116E13
10FGPS	1/2"	Silicon	F2	21.8	9.9	215103S13
16FGPS	3/4"	Silicon	F2	21.8	16.3	215105S13
25FGPS	1"	Silicon	F1	50	22.7	215106S13
32FGPS	1.25"	Silicon	F1	50.5	29.5	215126S13
40FGPS	1.5"	Silicon	F1	50	35.9	215108S13
50FGPS	2.0"	Silicon	F1	63.5	48.6	215109S13
63FGPS	2.5"	Silicon	F1	76.2	61.3	215110S13
80FGPS	3.0"	Silicon	F1	88.9	74	215111S13
100FGPS	4.0"	Silicon	F1	118	98.6	215112S13
160FGPS	6.0"	Silicon	F1	165	147.8	215115S13
200FGPS	8.0"	Silicon	F1	216	196.6	215116S13



CLAMP FITTINGS

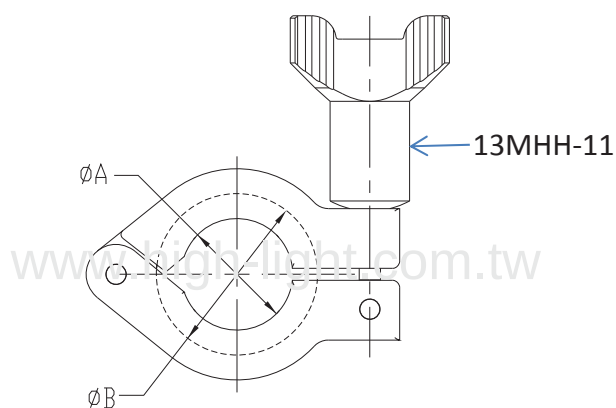
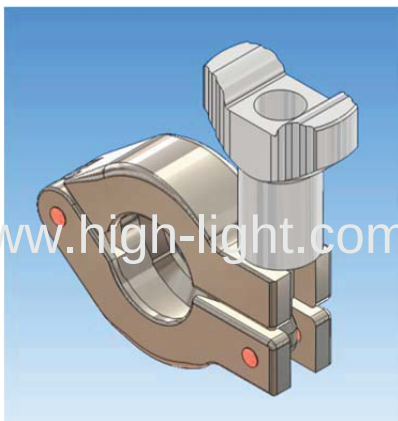


Ferrule Gasket - Flange Type 13FG

Model No.	size	Material	A	B	P/N:
25FGFT	1"	PTFE	52.7	22.8	215206E13
40FGFT	1.5"	PTFE	52.7	35.8	215208E13
50FGFT	2.0"	PTFE	66.2	48.8	215209E13
63FGFT	2.5"	PTFE	79.7	60.5	215210E13
80FGFT	3.0"	PTFE	93.2	73.1	215211E13
100FGFT	4.0"	PTFE	121.2	97.8	215212E13
160FGFT	6.0"	PTFE	169.1	148	215215E13
250FGFT	10"	PTFE	270.7	249	215217E13
320FGFT	12"	PTFE	321.5	300	215219E13
25FGFS	1"	Silicon	52.7	22.8	215206S13
40FGFS	1.5"	Silicon	52.7	35.8	215208S13
50FGFS	2.0"	Silicon	66.2	48.8	215209S13
63FGFS	2.5"	Silicon	79.7	60.5	215210S13
80FGFS	3.0"	Silicon	93.2	73.1	215211S13
100FGFS	4.0"	Silicon	121.2	97.8	215212S13
160FGFS	6.0"	Silicon	169.1	148	215215S13
250FGFS	10"	Silicon	270.7	249	215217S13
320FGFS	12"	Silicon	321.5	300	215219S13



CLAMP FITTINGS

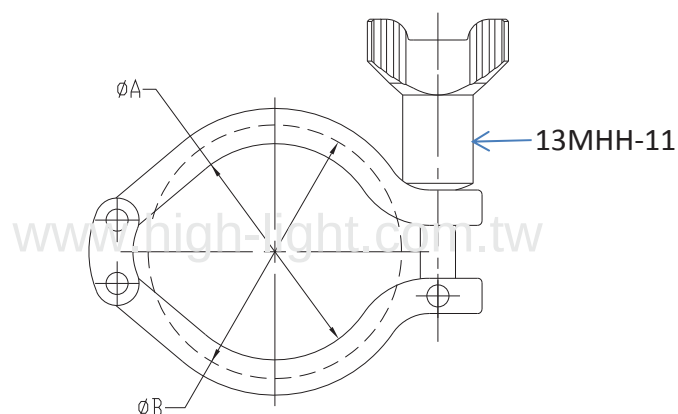
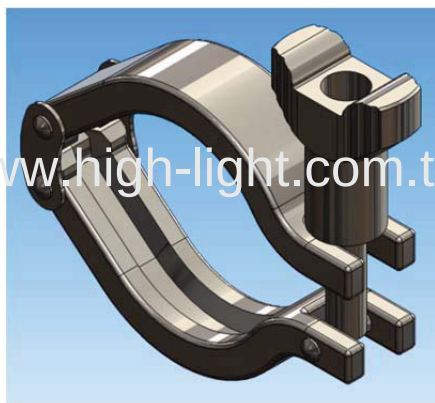


13MHH Heavy Duty Single Pin Clamp

Model No.	size	Material	A	B	P/N:
10/16HSPC	1/2"~3/4"	304S.S.	20	28	21050541
40HSPC	1.5"	304S.S.	44.4	53.6	21050841
50HSPC	2.0"	304S.S.	57.8	67	21050941
63HSPC	2.5"	304S.S.	71.4	80.6	21051041
80HSPC	3.0"	304S.S.	84	94.2	21051141
100HSPC	4.0"	304S.S.	110	122.2	21051241
160HSPC	6.0"	304S.S.	155.4	170.4	21051541
200HSPC	8"	304S.S.	205	220	21051641



CLAMP FITTINGS

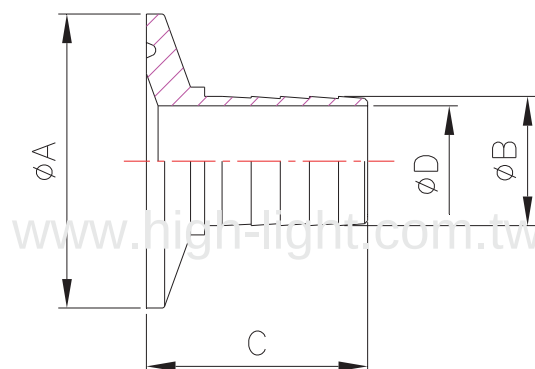


13CS Heavy Duty Double Pin Clamp

Model No.	size	Material	A	B	P/N:
16HDPC	3/4"	304S.S.	20.58	28.34	21060541
40HDPC	1.5"	304S.S.	41.02	53.52	21060841
50HDPC	2.0"	304S.S.	54.54	67.04	21060941
63HDPC	2.5"	304S.S.	68.02	80.52	21061041
80HDPC	3.0"	304S.S.	81.52	94.02	21061141
100HDPC	4.0"	304S.S.	109.54	122.04	21061241
160HDPC	6.0"	304S.S.	157.6	175.1	21061541
200HDPC	8"	304S.S.	207.4	225.9	21061641
DN20HDPC	DN10-20	304S.S.	27.2	37	2106BA41
DN40HDPC	DN25-40	304S.S.	44.5	54.5	2106BA41
DN50HDPC	DN50	304S.S.	57	68	2106BB41
DN65HDPC	DN65	304S.S.	84	95	2106BC41
DN80HDPC	DN80	304S.S.	99	110	2106BD41
DN100HDPC	DN100	304S.S.	112	123	2106BE41
DN125HDPC	DN125	304S.S.	144	159	2106BG41
DN150HDPC	DN150	304S.S.	172	187	2106BH41
DN200HDPC	DN200	304S.S.	222.5	237.5	2106BJ41
DN250HDPC	DN250	304S.S.	257	272	2106BK41
DN300HDPC	DN300	304S.S.	308	323	2106BL41



CLAMP FITTINGS

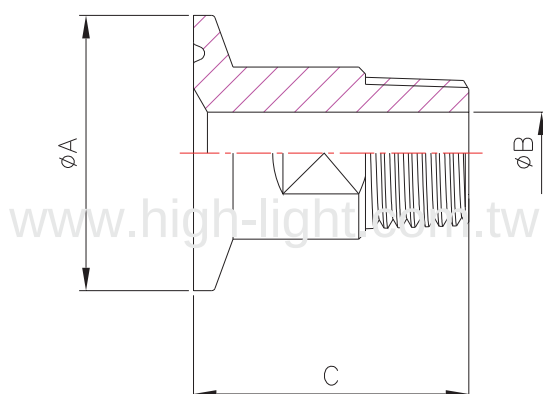


14MPHR Hose Adaptor

Model No.	size	Hose size	Material	A	B	C	D	P/N:
10-14MPHR	1/2"	1/2"	316LS.S.	25	12.7	38.1	9.5	17810118035
16-14MPHR	3/4"	3/4"	316LS.S.	25	19.05	38.1	15.8	17810218055
25-14MPHR	1.0"	1.0"	316LS.S.	50.5	25.4	43	22.1	17810318075
40-14MPHR	1.5"	1.5"	316LS.S.	50.5	38.1	43	34.8	17810518095
50-14MPHR	2.0"	2.0"	316LS.S.	64	50.8	59	47.5	17810618125
63-14MPHR	2.5"	2.5"	316LS.S.	77.5	63.5	60	60.2	17810718135
80-14MPHR	3.0"	3.0"	316LS.S.	91	76.2	79	72	17810818145
100-14MPHR	4.0"	4.0"	316LS.S.	119	101.6	87	97.6	17810918155



CLAMP FITTINGS

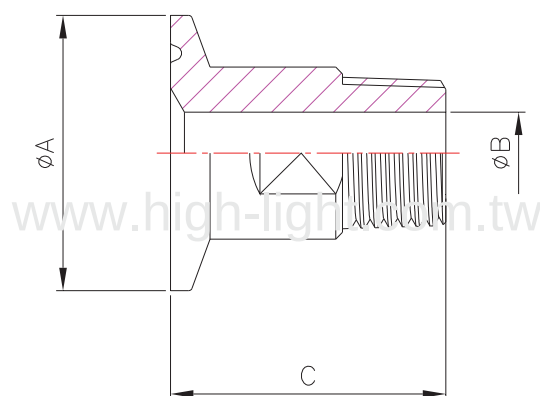


21MP – MALE PT Adaptor

Model No.	size	Tread	Material	A	B	C	P/N:
10-21MPMPT13	1/2"	1/2"PT	316LS.S.	25	9.5	38.1	17810112035
10-21MPMPT19	1/2"	3/4"PT	316LS.S.	25	15.8	41.3	17810112055
16-21MPMPT13	3/4"	1/2"PT	316LS.S.	25	15.8	38.1	17810212035
16-21MPMPT19	3/4"	3/4"PT	316LS.S.	25	15.8	41.3	17810212055
25-21MPMPT13	1.0"	1/2"PT	316LS.S.	50.5	9.5	41.3	17810312035
25-21MPMPT19	1.0"	3/4"PT	316LS.S.	50.5	15.8	41.3	17810312055
25-21MPMPT25	1.0"	1"PT	316LS.S.	50.5	22.1	41.3	17810312075
25-21MPMPT38	1.0"	1-1/2"PT	316LS.S.	50.5	22.1	41.3	17810312095
25-21MPMPT51	1.0"	2"PT	316LS.S.	50.5	22.1	41.3	17810312125
40-21MPMPT19	1.5"	3/4"PT	316LS.S.	50.5	15.8	41.3	17810512055
40-21MPMPT25	1.5"	1"PT	316LS.S.	50.5	22.1	41.3	17810512075
40-21MPMPT38	1.5"	1-1/2"PT	316LS.S.	50.5	34.8	57.2	17810512095
40-21MPMPT51	1.5"	2"PT	316LS.S.	50.5	34.8	41.3	17810512125
50-21MPMPT13	2.0"	1/2"PT	316LS.S.	64	9.5	42.8	17810612035
50-21MPMPT19	2.0"	3/4"PT	316LS.S.	64	15.8	42.8	17810612055
50-21MPMPT25	2.0"	1"PT	316LS.S.	64	22.1	42.8	17810612075
50-21MPMPT38	2.0"	1-1/2"PT	316LS.S.	64	34.8	42.8	17810612095
50-21MPMPT51	2.0"	2"PT	316LS.S.	64	47.5	59.5	17810612125
63-21MPMPT38	2.5"	1-1/2"PT	316LS.S.	77.5	34.8	42	17810712095
63-21MPMPT51	2.5"	2"PT	316LS.S.	77.5	47.5	43.6	17810712125
63-21MPMPT63	2.5"	2-1/2"PT	316LS.S.	77.5	60.2	53.2	17810712135
80-21MPMPT76	3.0"	3"PT	316LS.S.	91	73	55.5	17810812145
100-21MPMPT102	4.0"	4"PT	316LS.S.	119	97.6	67.5	17810912155



CLAMP FITTINGS

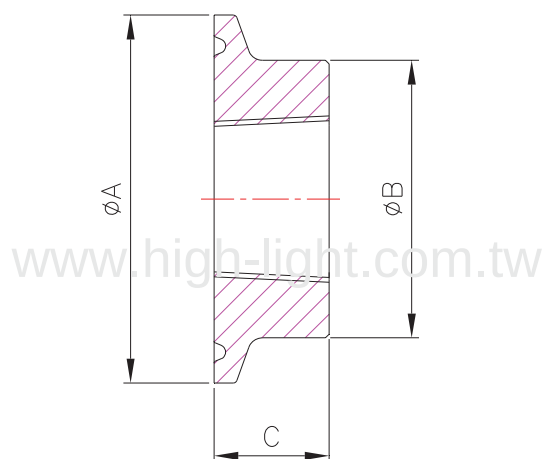


21MP – MALE NPT Adaptor

Model No.	size	Tread	Material	A	B	C	P/N:
10-21MPMNPT13	1/2"	1/2"NPT	316LS.S.	25	9.5	38.1	17810114035
10-21MPMNPT19	1/2"	3/4"NPT	316LS.S.	25	15.8	41.3	17810114055
16-21MPMNPT13	3/4"	1/2"NPT	316LS.S.	25	15.8	38.1	17810214035
16-21MPMNPT19	3/4"	3/4"NPT	316LS.S.	25	15.8	41.3	17810214055
25-21MPMNPT13	1.0"	1/2"NPT	316LS.S.	50.5	9.5	41.3	17810314035
25-21MPMNPT19	1.0"	3/4"NPT	316LS.S.	50.5	15.8	41.3	17810314055
25-21MPMNPT25	1.0"	1"NPT	316LS.S.	50.5	22.1	41.3	17810314075
25-21MPMNPT38	1.0"	1-1/2"NPT	316LS.S.	50.5	22.1	41.3	17810314095
25-21MPMNPT51	1.0"	2"NPT	316LS.S.	50.5	22.1	41.3	17810314125
40-21MPMNPT19	1.5"	3/4"NPT	316LS.S.	50.5	15.8	41.3	17810514055
40-21MPMNPT25	1.5"	1"NPT	316LS.S.	50.5	22.1	41.3	17810514075
40-21MPMNPT38	1.5"	1-1/2"NPT	316LS.S.	50.5	34.8	57.2	17810514095
40-21MPMNPT51	1.5"	2"NPT	316LS.S.	50.5	34.8	41.3	17810514125
50-21MPMNPT13	2.0"	1/2"NPT	316LS.S.	64	9.5	42.8	17810614035
50-21MPMNPT19	2.0"	3/4"NPT	316LS.S.	64	15.8	42.8	17810614055
50-21MPMNPT25	2.0"	1"NPT	316LS.S.	64	22.1	42.8	17810614075
50-21MPMNPT38	2.0"	1-1/2"NPT	316LS.S.	64	34.8	42.8	17810614095
50-21MPMNPT51	2.0"	2"NPT	316LS.S.	64	47.5	59.5	17810614125
63-21MPMNPT38	2.5"	1-1/2"NPT	316LS.S.	77.5	34.8	42	17810714095
63-21MPMNPT51	2.5"	2"NPT	316LS.S.	77.5	47.5	43.6	17810714125
63-21MPMNPT63	2.5"	2-1/2"NPT	316LS.S.	77.5	60.2	53.2	17810714135
80-21MPMNPT76	3.0"	3"NPT	316LS.S.	91	73	55.5	17810814145
100-21MPMNPT102	4.0"	4"NPT	316LS.S.	119	97.6	67.5	17810914155



CLAMP FITTINGS



23BMP – FEMALE PT Adaptor

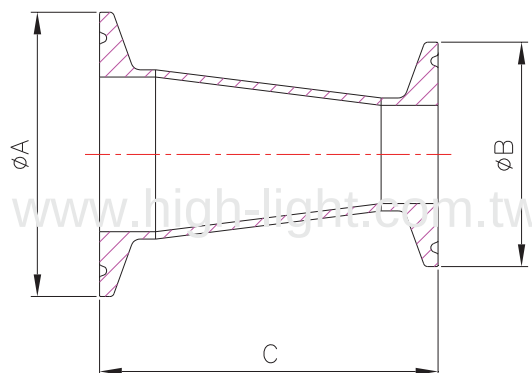
Model No.	size	Tread	Material	A	B	C	P/N:
25-23BMPFPT13	1.0"	1/2"PT	316LS.S.	50.5	38.1	15.8	17810313035
40-23BMPFPT19	1.5"	3/4"PT	316LS.S.	50.5	38.1	15.8	17810513055
50-23BMPFPT19	2.0"	3/4"PT	316LS.S.	64	50.8	15.8	17810613055
63-23BMPFPT19	2.5"	3/4"PT	316LS.S.	77.5	63.5	15.8	17810713055
80-23BMPFPT13	3.0"	1/2"PT	316LS.S.	91	76.2	15.8	17810813035
100-23BMPFPT19	4.0"	3/4"PT	316LS.S.	119	101.6	15.8	17810913055

23BMP – FEMALE NPT Adaptor

Model No.	size	Tread	Material	A	B	C	P/N:
25-23BMPFNPT13	1.0"	1/2"NPT	316LS.S.	50.5	38.1	15.8	17810315035
40-23BMPFNPT19	1.5"	3/4"NPT	316LS.S.	50.5	38.1	15.8	17810515055
50-23BMPFNPT19	2.0"	3/4"NPT	316LS.S.	64	50.8	15.8	17810615055
63-23BMPFNPT19	2.5"	3/4"NPT	316LS.S.	77.5	63.5	15.8	17810715055
80-23BMPFNPT13	3.0"	1/2"NPT	316LS.S.	91	76.2	15.8	17810815035
100-23BMPFNPT19	4.0"	3/4"NPT	316LS.S.	119	101.6	15.8	17810915055



CLAMP FITTINGS



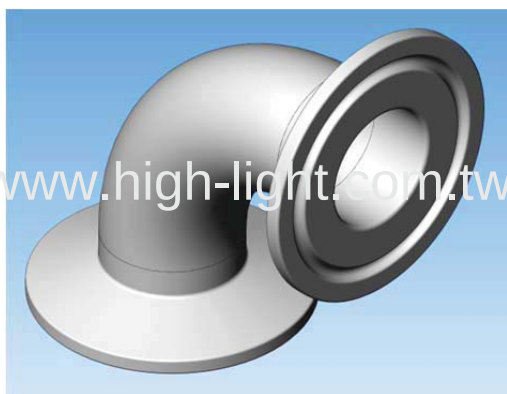
C.31-14MP – Conical Reducing Adaptor

Model No.	Flange size	Material	A	B	C	P/N:
40-25CR14MP	1.5"x1.0"	316LS.S.	50.5	50.5	76.2	1670C05C037L
50-40CR14MP	2.0"x1.5"	316LS.S.	64	50.5	76.2	1670C06C057L
63-40CR14MP	2.5"x1.5"	316LS.S.	77.5	50.5	127	1670C07C057L
63-50CR14MP	2.5"x2.0"	316LS.S.	77.5	64	76.2	1670C07C067L
80-40CR14MP	3.0"x1.5"	316LS.S.	91	50.5	177.8	1670C08C057L
80-50CR14MP	3.0"x2.0"	316LS.S.	91	64	127	1670C08C067L
80-63CR14MP	3.0"x2.5"	316LS.S.	91	77.5	76.2	1670C08C077L
100-40CR14MP	4.0"x1.5"	316LS.S.	119	50.5	282.5	1670C09C057L
100-50CR14MP	4.0"x2.0"	316LS.S.	119	64	231.7	1670C09C067L
100-63CR14MP	4.0"x2.5"	316LS.S.	119	77.5	180.9	1670C09C077L
100-80CR14MP	4.0"x3.0"	316LS.S.	119	91	130.1	1670C09C087L

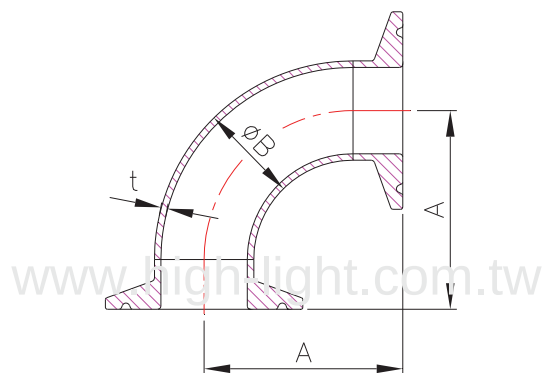
- listed ID/OD #180 ($Ra \leq 0.8 \mu m$), other spec. available by request



CLAMP FITTINGS



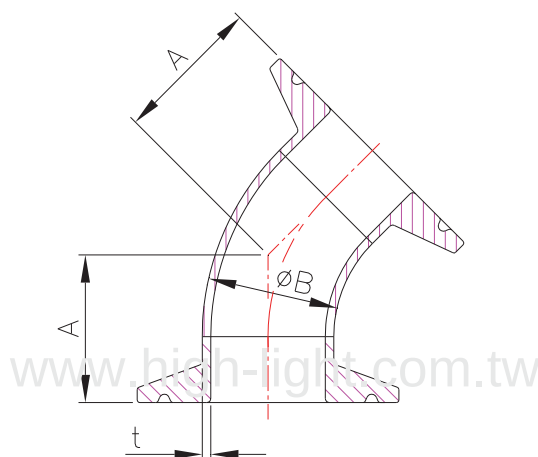
C.2CMP-90° Elbows



Model No.	size	Material	A	B	t	P/N:
CMP10EL90	1/2"	316LS.S.	41.3	12.7	1.65	1660C01C017L
CMP16EL90	3/4"	316LS.S.	41.3	19.05	1.65	1660C02C027L
CMP25EL90	1.0"	316LS.S.	50.8	25.4	1.65	1660C03C037L
CMP40EL90	1.5"	316LS.S.	69.9	38.1	1.65	1660C05C057L
CMP50EL90	2.0"	316LS.S.	88.9	50.8	1.65	1660C06C067L
CMP63EL90	2.5"	316LS.S.	107.95	63.5	1.65	1660C07C077L
CMP80EL90	3.0"	316LS.S.	127	76.2	1.65	1660C08C087L
CMP100EL90	4.0"	316LS.S.	168.2	101.6	2.1	1660C09C097L



C.2KMP-45° Elbows



Model No.	size	Material	A	B	t	P/N:
KMP25EL45	1.0"	316LS.S.	28.5	25.4	1.65	1662C03C037L
KMP40EL45	1.5"	316LS.S.	36.5	38.1	1.65	1662C05C057L
KMP50EL45	2.0"	316LS.S.	44.45	50.8	1.65	1662C06C067L
KMP63EL45	2.5"	316LS.S.	52.3	63.5	1.65	1662C07C077L
KMP80EL45	3.0"	316LS.S.	60.3	76.2	1.65	1662C08C087L
KMP100EL45	4.0"	316LS.S.	76.2	101.6	2.1	1662C09C097L

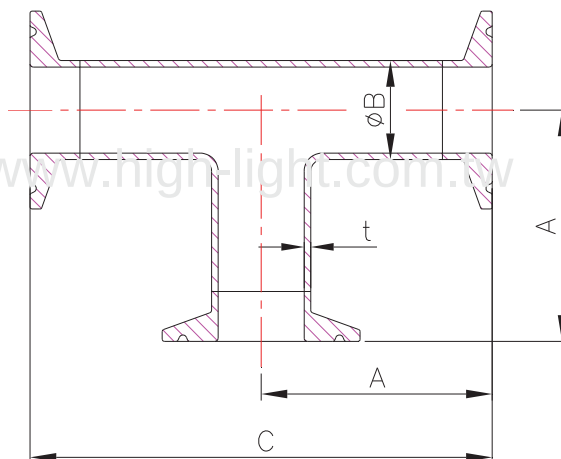
• listed ID/OD #180 (Ra ≤ 0.8μm) , other spec. available by request



CLAMP FITTINGS



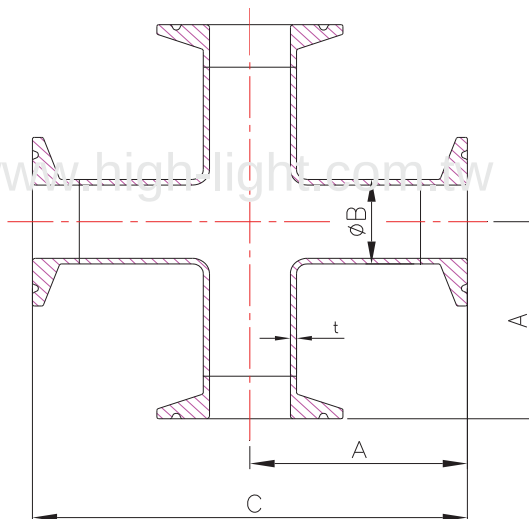
C.7MP- Long Tee



Model No.	size	Material	A	B	C	t	P/N:
C7MP10T	1/2"	316LS.S.	31.75	12.7	63.5	1.65	1664C01C017L
C7MP16T	3/4"	316LS.S.	60.3	19.05	120.6	1.65	1665C02C027L
C7MP25T	1.0"	316LS.S.	60.3	25.4	120.6	1.65	1665C03C037L
C7MP40T	1.5"	316LS.S.	69.9	38.1	139.8	1.65	1665C05C057L
C7MP50T	2.0"	316LS.S.	88.9	50.8	177.8	1.65	1665C06C067L
C7MP63T	2.5"	316LS.S.	88.9	63.5	177.8	1.65	1665C07C077L
C7MP80T	3.0"	316LS.S.	95.3	76.2	190.6	1.65	1665C08C087L
C7MP100T	4.0"	316LS.S.	114.2	101.6	228.4	2.1	1665C09C097L



C.9MP- Long Cross

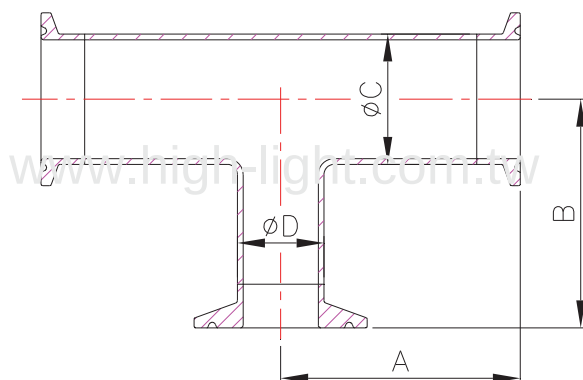


Model No.	size	Material	A	B	C	t	P/N:
C9MP25X	1.0"	316LS.S.	60.3	25.4	120.6	1.65	1667C03C037L
C9MP40X	1.5"	316LS.S.	69.9	38.1	139.8	1.65	1667C05C057L
C9MP50X	2.0"	316LS.S.	88.9	50.8	177.8	1.65	1667C06C067L
C9MP63X	2.5"	316LS.S.	88.9	63.5	177.8	1.65	1667C07C077L
C9MP80X	3.0"	316LS.S.	95.3	76.2	190.6	1.65	1667C08C087L
C9MP100X	4.0"	316LS.S.	114.2	101.6	228.4	2.1	1667C09C097L

• listed ID/OD #180 (Ra ≤ 0.8μm) , other spec. available by request



CLAMP FITTINGS



C.L7RMP- Long Unequal Tee

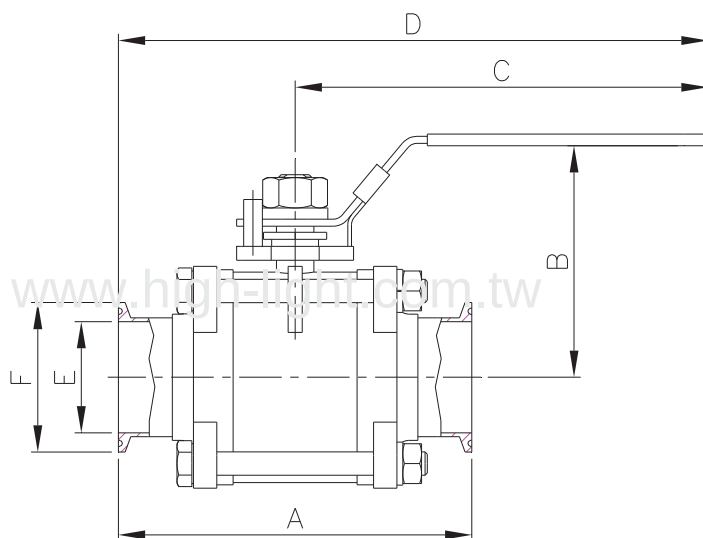
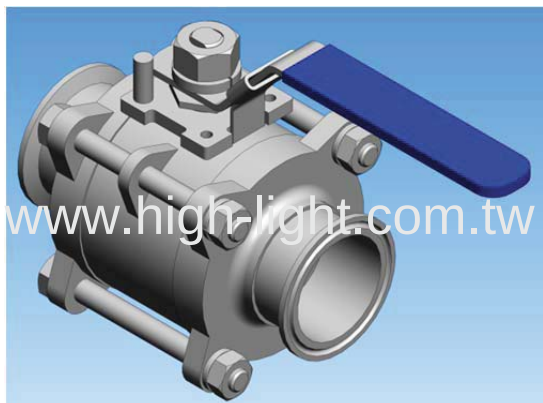
Model No.	size	Material	A	B	C	D	P/N:
CL7RMP40UT25	1.5"x1.0"	316LS.S.	69.85	66.68	38.1	25.4	1669C05C037L
CL7RMP50UT25	2.0"x1.0"	316LS.S.	88.9	73	50.8	25.4	1669C06C037L
CL7RMP50UT40	2.0"x1.5"	316LS.S.	88.9	76.2	50.8	38.1	1669C06C057L
CL7RMP63UT40	2.5"x1.5"	316LS.S.	88.9	82.55	63.5	38.1	1669C07C057L
CL7RMP63UT50	2.5"x2.0"	316LS.S.	88.9	95.25	63.5	50.8	1669C07C067L
CL7RMP80UT40	3.0"x1.5"	316LS.S.	95.25	88.9	76.2	38.1	1669C08C057L
CL7RMP80UT50	3.0"x2.0"	316LS.S.	95.25	101.6	76.2	50.8	1669C08C067L
CL7RMP80UT63	3.0"x2.5"	316LS.S.	95.25	95.25	76.2	63.5	1669C08C077L
CL7RMP100UT50	4.0"x2.0"	316LS.S.	114.2	114.3	101.6	50.8	1669C09C067L
CL7RMP100UT63	4.0"x2.5"	316LS.S.	114.2	107.95	101.6	63.5	1669C09C077L
CL7RMP100UT80	4.0"x3.0"	316LS.S.	114.2	107.95	101.6	76.2	1669C09C087L

- listed ID/OD #180 (Ra ≤ 0.8μm) , other spec. available by request



CLAMP FITTINGS

Sanitary Ball Valve for Food and Chemical Use with ISO Mount Plate



Clamp End Ball Valve

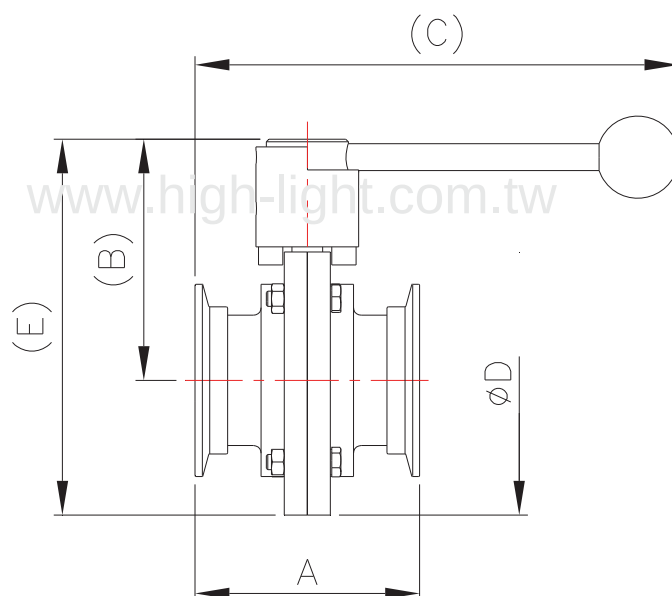
Model No.	size	A	B	C	D	E	F	P/N:
SF10BV89	1/2"	89	55	132	176.5	9.5	25	3201073112131
SF16BV101	3/4"	101	60	131.5	182	15.9	25	3201093112131
SF25BV114	1.0"	114	69	165	222	22.2	50.5	3201113112131
SF40BV140	1.5"	140	84	194.3	264.3	35	50.5	3201133112131
SF50BV156	2.0"	156	92	194.3	272.3	47.6	64	3201143112131
SF63BV197	2.5"	197	126.8	252	350.5	60.3	77.5	3201153112131
SF80BV229	3.0"	229	136	252	366.5	73	91	3201163112131
SF100BV243	4.0"	242.7	158.8	333	454.4	97.4	119	3201183112131

Specifications

- Valve size for 1/2" to 4.0"
- Flange : Clamp End (3A Inch)
- Body materials : 316 Stainless Steel
- Seal materials : PTFE



Sanitary Butterfly Valve



3A Clamp End Butterfly Valve

Model No.	size	A	B	C	D	E	P/N:
SF10BFV68	1/2"	68	80	179	79	120	3202072112131
SF16BFV68	3/4"	68	80	179	79	120	3202092112131
SF25BFV66	1.0"	66	80	178	79	120	3202112112131
SF40BFV66	1.5"	66	83.3	178	85	126	3202132112131
SF50BFV70	2.0"	70	93.3	180	105	146	3202142112131
SF63BFV70	2.5"	70	96.6	180	112	153	3202152112131
SF80BFV76	3.0"	76	103.8	183	125	166	3202162112131
SF100BFV76	4.0"	76	120.6	183	157	199	3202182112131
SF100BFV114	6.0"	114	158	202	213	265	3202202112131

Specifications

- Valve size for 1/2" to 6"
- Flange : Clamp End (3A Inch)
- Body materials : 316 Stainless Steel
- Seal materials : EPDM