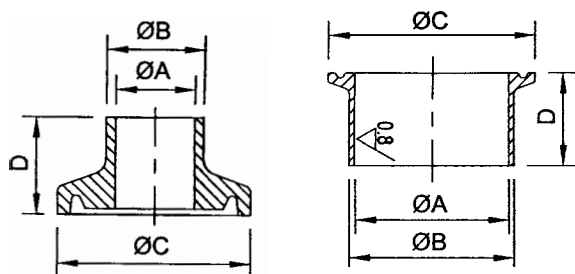
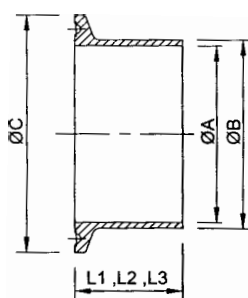


Unit: mm



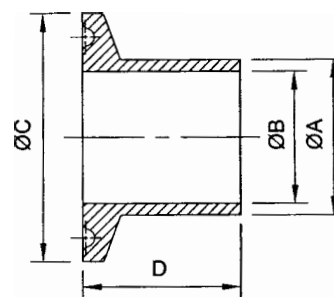
Welding Ferrule 3A/SMS-14WMP 14MMP 14AMP

SIZE	A	B	C	D	D	D
1/2"	9.45	12.75	25.2	12.7	21.5	28.6
3/4"	15.75	19.05	25.2	12.7	21.5	28.6
1.0"	22.2	25.4	50.5	12.7	21.5	28.6
DN25	22.5	25	50.5		21.5	28.6
1.5"	34.9	38.1	50.5	12.7	21.5	28.6
DN38	35.5	38	50.5		21.5	28.6
2.0"	47.6	50.8	64.0	12.7	21.5	28.6
DN51	48.5	21	64.0		21.5	28.6
2.5"	60.3	63.5	77.5	12.7	21.5	28.6
DN63.5	60.5	63.5	77.5		21.5	28.6
DN76	72.9	76.1	91.0		21.5	28.6
3.0"	73.0	76.2	91.0	12.7	21.5	28.6
DN104	97.6	101.6	119.0		21.5	28.6
4.0"	97.6	101.6	119.0	15.8	21.5	28.6
6.0"	146.8	152.5	166.8		21.5	28.6 or 38.1
8.0"	197.6	203.3	217.7		21.5	28.6 or 38.1
10"	247.2	254.1	268.5		21.5	28.6 or 38.1
12"	298	304.9	319.3		21.5	28.6 or 38.1



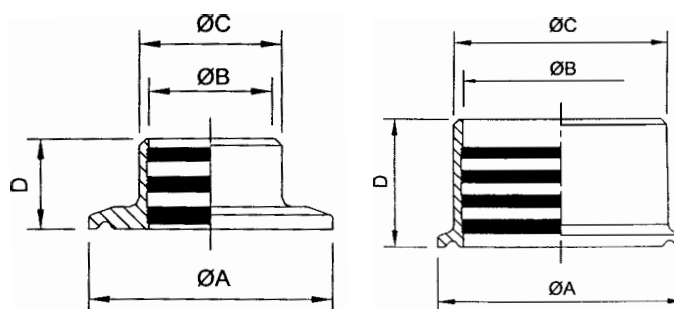
DIN Ferrule

SIZE	A	B	C	L1	L2	L3
DN10	9	12	34	12.7	21.5	28.6
DN15	15	18	34	12.7	21.5	28.6
DN20	19	22	34	12.7	21.5	28.6
DN28	25	28	50.5	12.7	21.5	28.6
DN34	31	34	50.5	12.7	21.5	28.6
DN40	37	40	50.5	12.7	21.5	28.6
DN52	49	52	64.0	12.7	21.5	28.6
DN70	66	70	91.0	12.7	21.5	28.6
DN85	81	85	106.0	15.8	21.5	28.6
DN101.6	97.6	101.6	119.0	15.8	21.5	28.6
DN104	100	104	119.0	15.8	21.5	28.6
DN125	125	129	155	15.8	21.5	28.6
DN150	150	154	183	15.8	21.5	28.6
DN200	200	204	233.5			28.6



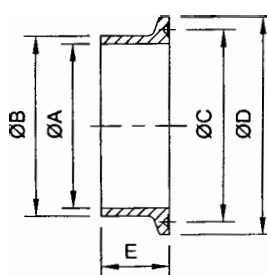
ISO Ferrule

DN	A	B	C	D
8	13.5	10.3	34.0	28.6
12	17.5	14.0	34.0	28.6
15	21.6	18.1	34.0	28.6
20	26.9	23.7	50.5	28.6
25	33.7	30.5	50.5	28.6
32	42.4	39.2	50.5	28.6
40	48.3	45.1	64.0	28.6
50	60.3	56.3	77.5	28.6
65	76.1	72.1	91.0	28.6
80	88.9	84.9	106.0	28.6
100	114.3	109.1	130.0	28.6
125	139.7	133.7	155.0	28.6
150	168.3	162.3	183.0	28.6
200	219.1	211.1	233.5	28.6



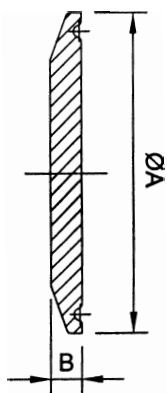
3A-Expanding Ferrule

SIZE	A	B	C	D
1.0"	50	25.5	29.5	19.1
1.5"	50.5	38.2	42.6	28.6
2.0"	64	50.9	55.7	33.3
2.5"	77.5	63.6	68.8	34.9
3.0"	91	76.3	91.9	36.5
4.0"	119	101.7	108.1	38.1



14MPW

SIZE	A	B	C	D	E
1.0"	22.1	29.5	43.5	50.5	20
1.5"	34.8	42.6	43.5	50.5	20
2.0"	47.5	55.7	56.5	64.0	20
2.5"	60.2	68.8	70.5	77.5	20
3.0"	72.9	81.9	83.5	91.0	20
4.0"	97.4	108.1	110.0	119.0	20



Blank DIN-16AMP

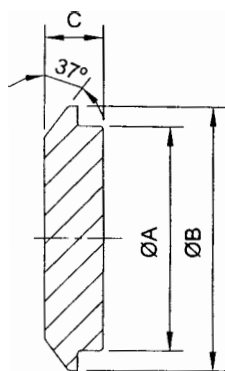
SIZE	A	B
1/2"	25	6.4
3/4"	25	6.4
1.0"	50.5	6.4
1.5"	50.5	6.4
2.0"	64	6.4
2.5"	77.5	6.4
3.0"	91	6.4
4.0"	119	7.9
10"	34	6.4
20"	34	6.4
8"	106	6.4

Blank 3A-16AMP

SIZE	A	B
A37	34	6.3
1/2"-3/4"	25.2	5
1.0"-1.5"	50.5	6.3
2.0"	61.0	6.3
2.5"	77.5	6.3
3.0"	91.0	6.3
4.0"	119.0	7.9
6.0"	166.8	11.1
8.0"	217.7	11.1
10"	268.5	11.1
12"	319.3	11.1

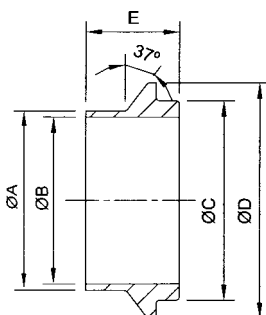
Blank DIN-16AMP

SIZE	A	B
DN20	50.5	6.3
DN25	50.5	6.3
DN32	50.5	6.3
DN40	61.0	6.3
DN50	77.5	6.3
DN65	91	6.3
DN80	106	6.3
DN100	130	7.9
DN125	155	7.9
DN125	183	11.1
DN200	233.5	11.1



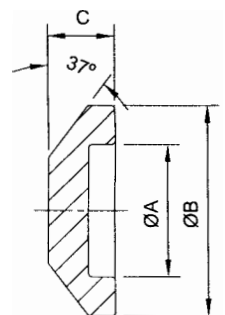
14WI-Cap

SIZE	A	B	C
1.0"	31.5	50.67	9.7
1.5"	44.20	50.67	9.7
2.0"	56.90	67.05	11.77
2.5"	69.60	84.00	15.52
3.0"	83.82	98.30	16.12
4.0"	109.14	123.70	16.12



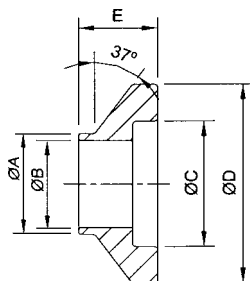
14WI I-LINE Ferrule

SIZE	A	B	C	D	E
1.0"	25.65	22.10	31.50	50.67	19.84
1.5"	38.35	34.80	44.20	50.67	23.80
2.0"	51.05	47.50	56.90	67.05	26.19
2.5"	63.75	60.20	69.60	84.00	29.36
3.0"	76.45	72.89	83.82	98.30	30.94
4.0"	101.85	97.38	109.14	123.70	34.11



15WI-Cap

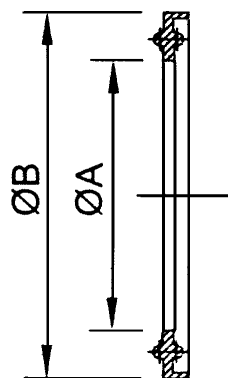
SIZE	A	B	C
1.0"	31.88	50.67	12.75
1.5"	44.58	50.67	12.75
2.0"	57.28	67.05	17.66
2.5"	69.98	84.00	18.77
3.0"	84.20	98.30	19.37
4.0"	109.60	123.70	19.37



15WI I-LINE Ferrule

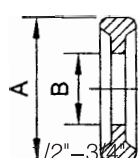
SIZE	A	B	C	D	E
1.0"	25.65	22.10	31.88	50.67	19.84
1.5"	38.35	34.80	44.58	50.67	23.80
2.0"	51.05	47.50	57.28	67.05	26.19
2.5"	63.75	60.20	69.98	84.00	29.36
3.0"	76.45	72.89	84.20	98.30	30.94
4.0"	101.85	97.38	109.60	123.70	34.11

Ferrule Gasket (EPDM,Silicon,Vition,PTFE)



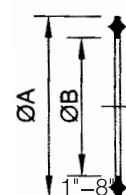
Flange Type 13FG

SIZE	A	B
1.0"	22.8	52.7
1.5"	35.8	52.7
2.0"	48.8	66.2
2.5"	60.5	79.7
3.0"	73.1	93.2
4.0"	97.8	121.2
6.0"	148	169.1
10"	270.7	249
12"	300	321.5

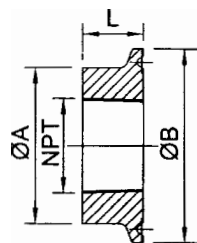


Plain Type 13FG

SIZE	A	B
1/2"	21.8	9.9
3/4"	21.8	16.3
1.0"	50.0	22.7
1.5"	50.0	35.9
2.0"	63.5	48.6
2.5"	76.2	61.3
3.0"	88.9	74.0
4.0"	118	98.6
6.0"	165	147.8
8.0"	216	196.6

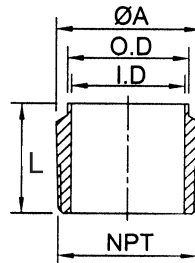


Unit: mm



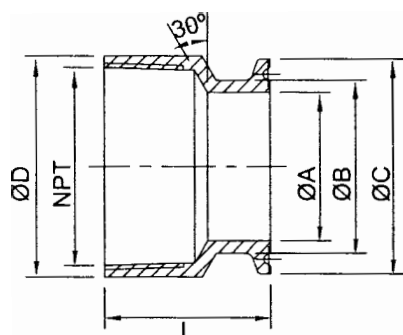
23BMP Thermometer Cap

SIZE	A	B	NPT	L
1.0"	25.4	50.5	1/2"-14	15.8
1.5"	38.1	50.5	3/4"-14	15.8
2.0"	50.8	64.0	3/4"-14	15.8
2.5"	63.5	77.5	3/4"-14	15.8
3.0"	76.2	91.0	3/4"-14	15.8
4.0"	101.6	119.0	3/4"-14	15.8



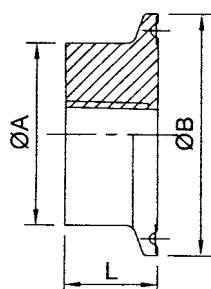
B19W Adapter

DN	O.D	I.D	L	A	NPT
1.0"	25.4	22.1	44.5	33.4	1.0"-11.5
1.5"	38.1	34.8	44.5	48.3	1.5"-11.5
2.0"	50.8	47.5	46	60.3	2.0"-11.5
2.5"	63.5	60.2	58.7	73.0	2.5"-8
3.0"	76.2	72.9	63.5	88.9	3.0"-8
4.0"	101.6	97.4	65.1	114.3	4.0"-8
6.0"	152.4	146.9	76.2	168.3	6.0"-8



22MP Female Adapter

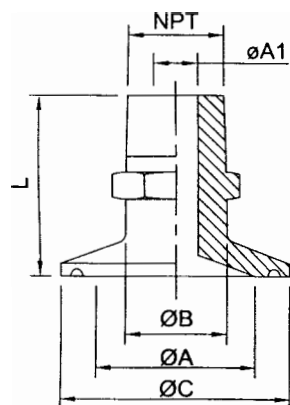
SIZE	A		B	D	E	NPT	L
	1.0"	1.5"					
1.0" & 1.5x1.5"	22.2	34.9	38.1	50.5	52	1.5"NPT	39
1.0" & 1.5x2.0"	22.2	34.9	38.1	50.5	65	2.0"NPT	39
2.0"x2.0"	47.6		50.8	64	65	2.0"NPT	39
2.5"x2.5"	60.3		63.5	77.5	80	2.5"NPT	50
3.0"x2.5"	73		76.2	91	95	2.5"NPT	50
4.0"x3.0"	73		76.2	91	95	3.0"NPT	52
6.0"x4.0"	97.6		101.6	119	120	4.0"NPT	54



22MP Female Adapter

SIZE	A	B	L	NPT
1.0" & 1.5"x1/4"	38.1	50.5	19	1/4"NPT
1.0" & 1.5"x3/8"	38.1	50.5	19	3/8"NPT
1.0" & 1.5"x1/2"	38.1	50.5	19	1/2"NPT
1.0" & 1.5"x3/4"	38.1	50.5	19	3/4"NPT
1.0" & 1.5"x1.0"	38.1	50.5	19	1"NPT
2.0"x1.0"	50.8	64.0	19	1.0"NPT
2.0"x1.5"	50.8	64.0	19	1.5"NPT
2.5"x1.0"	63.5	77.5	35	1.0"NPT
2.5"x1.5"	63.5	77.5	35	1.5"NPT

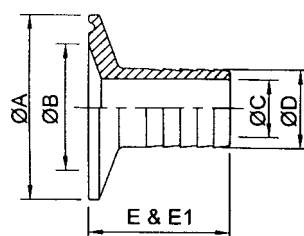
SIZE	A	B	L	NPT
2.5"x2.0"	63.5	77.5	35	2.0"NPT
3.0"x1.0"	76.2	91	35	1.0"NPT
3.0"x1.5"	76.2	91	35	1.5"NPT
3.0"x2.0"	76.2	91	35	2.0"NPT
4.0"x1.0"	101.6	119	35	1.0"NPT
4.0"x1.5"	101.6	119	35	1.5"NPT
4.0"x2.0"	101.6	119	35	2.0"NPT
4.0"x2.5"	101.6	119	35	2.5"NPT
4.0"x3.0"	101.6	119	35	3.0"NPT



21MP Male Adapter

SIZE	ØA1	A		ØB	ØC	NPT	L
		1.0"	1.5"				
1.0" & 1.5"x1/4"	3.18	22.2	34.9	14	50.5	Ø13.25 1/4"	18
1.0" & 1.5"x3/8"	6.35	22.2	34.9	18	50.5	Ø16.67 3/8"	18
1.0" & 1.5"x1/2"	9.5	22.2	34.9	22	50.5	Ø20.71 1/2"	14
1.0" & 1.5"x3/4"	15.8	22.2	34.9	27	50.5	Ø26.03 3/4"	14
1.0" & 1.5"x1.0"	22.2	22.2	34.9	34	50.5	Ø32.59 1.0"	11-1/2
1.0" & 1.5"x1.5"	34.9	22.2	34.9	38.1	50.5	Ø47.38 1.5"	11-1/2
1.0" & 1.5"x2.0"	47.6	22.2	34.9	38.1	50.5	Ø59.40 2.0"	11-1/2

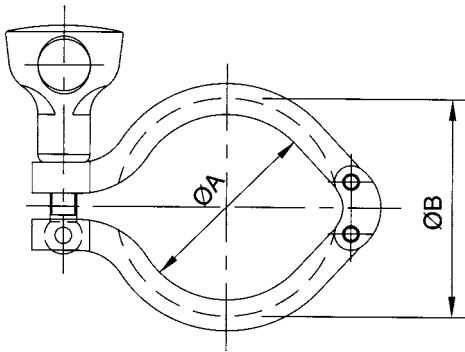
SIZE	ØA1	A		ØB	ØC	NPT	L
		1.0"	1.5"				
2.0"x3/4"	15.8	47.6	50.8	64.0	Ø26.03 3/4"	14	50
2.0"x1.0"	22.2	47.6	50.8	64.0	Ø32.59 1.0"	11-1/2	50
2.0"x1.5"	34.9	47.6	50.8	64.0	Ø47.38 1.5"	11-1/2	50
2.0"x2.0"	47.6	47.6	50.8	64.0	Ø59.40 2.0"	11-1/2	55
2.0"x2.5"	60.3	47.6	50.8	64.0	Ø71.61 2.5"	8	60
2.0"x3.0"	73	47.6	50.8	64.0	Ø87.39 3.0"	8	70
2.0"x4.0"	97.6	47.6	50.8	64.0	Ø112.63 4.0"	8	75



Hose 14MPHR

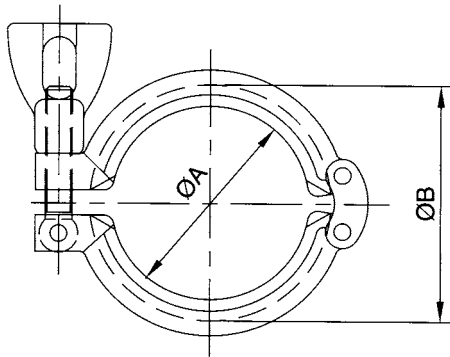
SIZE	A	B	C	D	E	E1
1/2"	50.5	34.5	9.50	13.7	38	140
3/4"	50.5	34.5	15.8	21.4	38	140
1.0"	50.5	34.5	20.6	25.4	43	140
1.5"	50.5	34.5	33.2	38.1	43	140

SIZE	A	B	C	D	E	E1
2.0"	64.0	46.0	46.0	50.8	58.7	140
2.5"	77.5	60.3	58.7	63.5	59.5	140
3.0"	91.0	73	72	76.2	78.6	140
4.0"	119	97.6	97.6	101.6	85.5	140



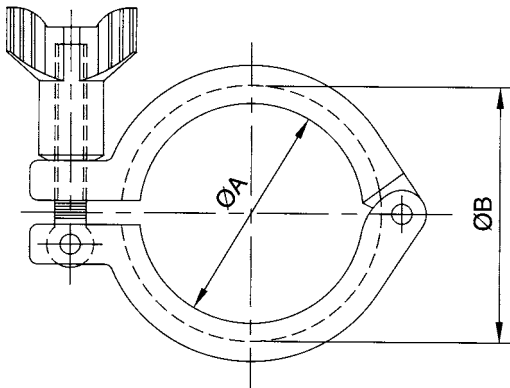
13MHM Heavy Duty Double Pin Clamp

SIZE	A	B
1/2"-3/4"	20	28
1.5"	43.6	53.6
2.0"	57	67
2.5"	70.6	80.6
3.0"	84	94
4.0"	112	122
6.0"	155	170
8.0"	205	220.8



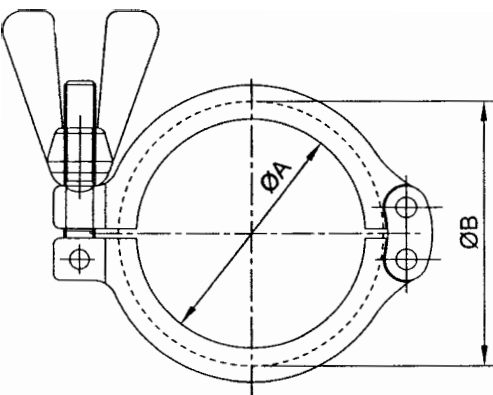
13SF Heavy Duty Double Pin Clamp

SIZE	A	B
1/2"-3/4"	20	28
A37	27.5	42.9
1.5"	45	58.6
2.0"	59	72
2.5"	67	84
3.0"	85	98
4.0"	114	127



13MHH Heavy Duty Single Pin Clamp

SIZE	A	B
A37	27.8	37
1-11/2"	44.4	53.6
2.0"	57.8	67
2 1/2"	71.4	80.6
3.0"	84	94.2
3 1/2"	99	109.2
4.0"	110	122.2
4 1/2"	123	133.2
6.0"	155.4	170.4
8.0"	205	220

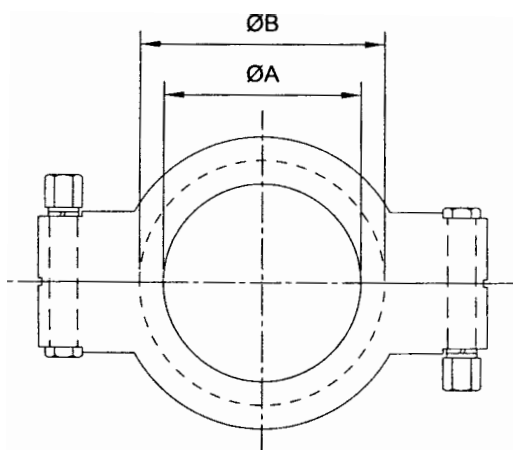


13CS Double Pin Clamp

SIZE	A	B
3/4"	20.58	28.34
DN10-20	27.2	37
1.5"	41.02	53.52
DN25-40	44.5	54.5
2.0"	54.54	67.04
DN50	57	68
2.5"	68.02	80.52
3.0"	81.52	94.02
DN65	84	95
DN80	99	110

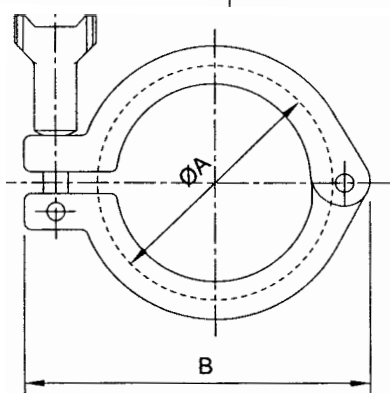
SIZE	A	B
4.0"	109.54	122.04
DN100	112	123
DN115	123	134
DN125	144	129
6.0"	157.6	175.1
DN150	172	187
8.0"	207.4	225.9
DN200	222.5	237.5
DN250	287	272
DN300	308	323

Unit: mm



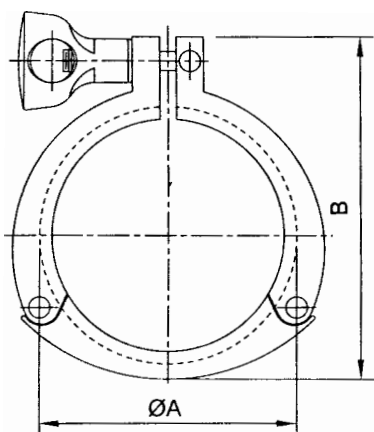
13MHP High Pressure Clamp

SIZE	A	B
1.5"	43.32	52.0
2.0"	56.44	65.5
2.5"	69.54	79.0
3.0"	77.56	92.5
4.0"	108.86	120.5
6.0"	158	170
8.0"	222.5	237.5
10"	258.2	272.8
12"	309	327.6



13IS I-LINE Clamp

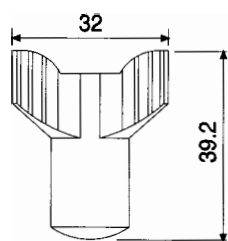
SIZE	A	B
1-1/2"	53.4	83.8
2.0"	72.2	111
2-1/2"	88.1	121.4
3.0"	102.4	136.1
4.0"	127.8	162
6.0"	195.3	242.1



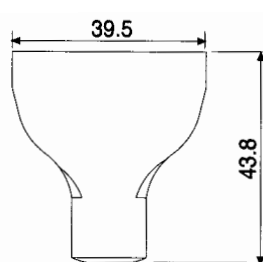
3 Pieces Clamp

SIZE	A	B
1-1/2"	54	80
2.0"	67.5	94
2-1/2"	80.9	109
3.0"	84.4	126
4.0"	122.4	154

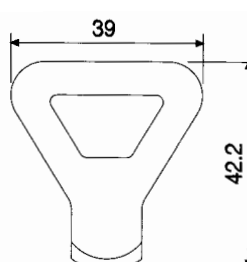
Wing-Nut for Clamp-Ring



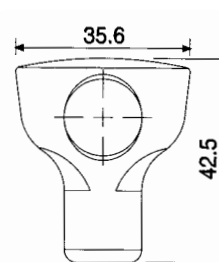
13MHH-11



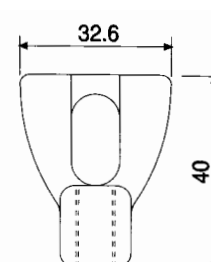
13MHH-12



13MHH-13



13MHH-14

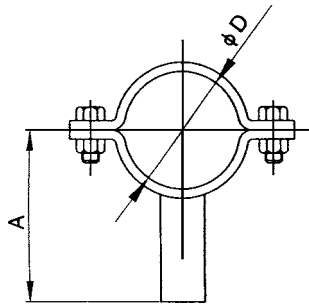


13SP-2

TUBING HANGER

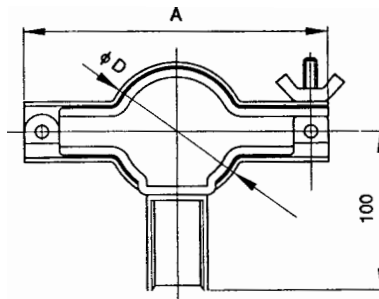
Unit: mm

Type A



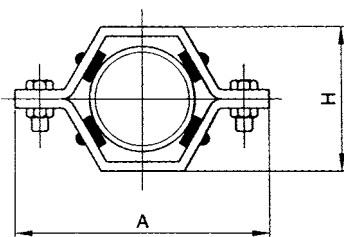
SIZE	A	D
1"	61.0	25.4
1 1/4"	61.0	31.8
1 1/2"	67.0	38.1
2"	74.0	50.8
2 1/2"	80.0	63.5
3"	86.0	76.2
3 1/2"	93.0	89.0
4"	100.0	101.6
4 1/4"	102.0	108.0
4 1/2"	105.0	114.0
5"	115.0	133.0
6"	128.0	159.0

Type B



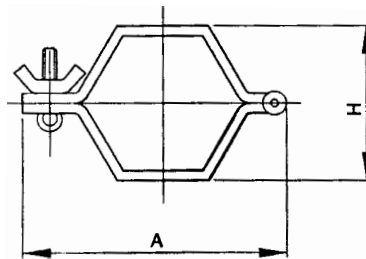
SIZE	A	D
1"	66.0	25.4
1 1/2"	76.0	38.1
2"	90.0	50.6
2 1/2"	105.0	63.5
3"	120.0	76.3
4"	146.0	101.6

Type C



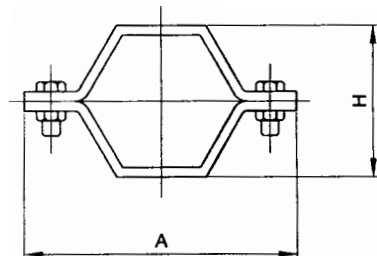
SIZE	A	H
1"	87.0	36.8
1 1/2"	101.6	53.9
2"	114.3	63.5
2 1/2"	120.6	79.4
3"	139.7	95.2
4"	171.4	120.6

Type D



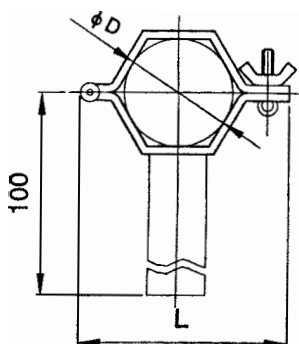
SIZE	A	H
1"	87.0	36.8
1 1/2"	101.6	53.9
2"	114.3	63.5
2 1/2"	120.6	79.4
3"	139.7	95.2
4"	171.4	120.6

Type E



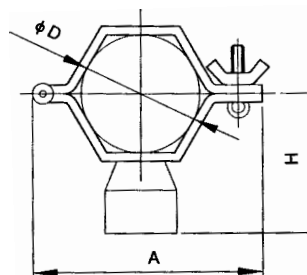
SIZE	A	H
1"	87.0	36.8
1 1/2"	101.6	53.9
2"	114.3	63.5
2 1/2"	120.6	79.4
3"	139.7	95.2
4"	171.4	120.6

Type F



SIZE	A	D	H
1"	61.0	25.0	45.0
1 1/2"	76.0	38.0	51.5
2"	90.0	51.0	58.0
2 1/2"	106.0	63.5	64.0
3"	120.0	76.0	70.5
4"	146.0	101.6	83.0

Type G



SIZE	A	D	H
1"	61.0	25.0	45.0
1 1/2"	76.0	38.0	54.5
2"	90.0	51.0	58.0
2 1/2"	106.0	63.5	64.0
3"	120.0	76.0	70.5
4"	146.0	101.6	83.0

Sanitary Tube for Food and Pharmaceutical Industry

BPE standard			SMS standard			IDF standard			3A standard			DIN 11850		
SIZE	O.D	T	SIZE	O.D	T	SIZE	O.D	T	SIZE	O.D	T	SIZE	O.D	T
1/4"	6.35	0.89												
3/8"	9.53	0.89												
1/2"	12.7	1.65												
1.0"	25.4	1.65	25	25	1.25	1.0"	25.4	1.2		25.4	1.65	25	28	1
														1.5
			32	32	1.25	1.25"	31.8	1.2				32	34	1
														1.5
1.5"	38.1	1.65	38	38	1.25	1.5"	38.1	1.2		38.1	1.65	40	40	1
														1.5
2.0"	50.8	1.65	51	51	1.25	2.0"	50.8	1.5		50.8	1.65	50	52	1
														1.5
2.5"	63.5	1.65	63.5	63.5	1.6	2.5"	63.55	2		63.5	1.65	65	70	2
3.0"	76.2	1.65	76	76.2	2	3.0"	76.3	2		76.2	1.65	80	85	2
4.0"	101.6	2.11	104	104	2	4.0"	101.6	2		101.6	1.65	100	104	2
											2.11			

Material: ASTM 304 / 304L / 316L

Spec: ASTM A269 / A270.

Surface & Roughness:

1.OD/ID Pickle ($Ra \leq 1.0\mu m$)

2.Polished:

(1) ID/OD Polished to 180Grit ($Ra \leq 0.8\mu m$).

(2) ID/OD Polished to 240Grit ($Ra \leq 0.6\mu m$).

(3) ID/OD Polished to 320Grit ($Ra \leq 0.5\mu m$).

(4) ID/OD Polished to 420Grit ($Ra \leq 0.4\mu m$).

3.Electric polished

others:

1. Cleaner Series

2. Manhole Covers