

شرکت آدلی استیل نیروانا

ADLI STEEL NIRVANA







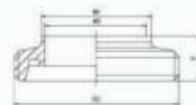
A

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DIN round nut

Size	A	RD	B	L	Short
15	44	RD34x1/8"	25	18	4
20	54	RD44x1/8"	32	20	4
25	63	RD52x1/8"	38	21	4
32	70	RD58x1/8"	42	21	4
40	78	RD65x1/8"	49	21	4
50	92	RD78x1/8"	62	22	4
65	112	RD95x1/8"	80	25	6
80	127	RD110x1/4"	94	29	6
100	148	RD130x1/4"	115	31	6
125	178	RD160x1/4"	138	34	6
150	210	RD190x1/4"	164	40	6



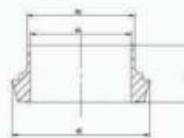
DIN Short welding male

Size	A	B	RD	H
20	22/23	19/20	RD44x1/8"	19
25	29/29	25/26	RD52x1/8"	20
32	34/35	31/32	RD58x1/8"	20
40	40/41	37/38	RD65x1/8"	21
50	52/53	49/50	RD78x1/8"	21
65	70	66	RD95x1/8"	23
80	85	81	RD110x1/4"	26
100	104	100	RD130x1/4"	28
125	129	125	RD160x1/4"	32
150	154	150	RD190x1/4"	36



DIN Short welding liner

Size	A	B	C	H	D
20	19/20	22/23	36	13	5
25	25/26	29/29	44	15	5
32	31/32	34/35	50	15	5
40	37/38	40/41	56	15	5
50	49/50	52/53	68	16	5
65	66	70	86	17	5
80	81	85	100	17	5
100	100	104	121	20	5
125	125	129	150	25	8
150	150	154	176	26	8



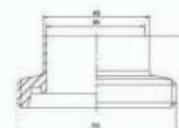
DIN11851 welding liner

Size	B	A	C	L
15	18/19	15/16	28	17
20	22/23	19/20	36	18
25	29/29	25/28	44	22
32	34/35	31/32	50	25
40	40/41	37/38	56	26
50	52/53	49/50	68	28
65	70	66	86	32
80	85	81	100	37
100	104	100	121	44
125	129	125	150	34
150	154	150	176	37

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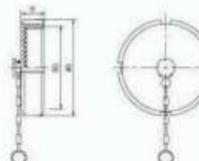
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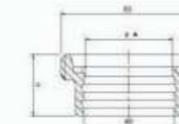
DIN11851 weld male

Size	B	A	RD	L
15	18/19	15/16	RD34x1/8"	21
20	22/23	19/20	RD44x1/8"	24
25	28/29	25/26	RD52x1/8"	29
32	34/35	31/32	RD58x1/8"	32
40	40/41	37/38	RD65x1/8"	33
50	52/53	49/50	RD78x1/8"	35
65	70	66	RD95x1/8"	40
80	85	81	RD110x1/4"	45
100	104	100	RD130x1/4"	54
125	129	125	RD160x1/4"	46
150	154	150	RD190x1/4"	50



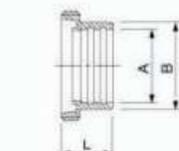
DIN blind nut with chain

Size	A	B	RD
DN25	63	21	RD52x1/8"
DN32	70	21	RD58x1/8"
DN40	78	21	RD65x1/8"
DN50	92	22	RD78x1/8"
DN65	112	25	RD95x1/8"
DN80	127	30	RD110x1/4"
DN100	148	31	RD130x1/4"



DIN11851 expanding male

Size	B	A	RD	H
25	28.2	26	RD52x1/8"	29
32	34.2	32	RD58x1/8"	32
40	40.2	38	RD65x1/8"	33
50	52.2	50	RD78x1/8"	35
65	70.3	66	RD95x1/8"	40
80	85.3	81	RD110x1/4"	44
100	102	100	RD130x1/4"	54



DIN11851 expanding male

Size	A	B	L
25	26	28.2	22
32	32	34.2	25
40	38	40.2	26
50	50	52.2	28
65	66	70.3	32
80	81	85.3	35
100	100	102.2	42

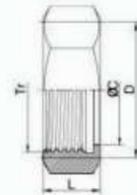
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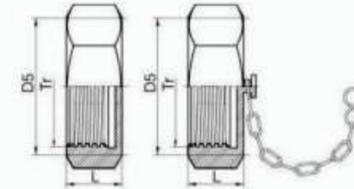
Sanitary Union



Hex Nut -13H 3A

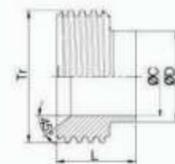
Size	C	D	Tr	L
1"	30.3	46.0	38.02X1/8 TACME	23.0
1 1/2"	43.4	61.1	51.54X1/8 TACME	24.6
2"	56.5	76.2	65.05X1/8 TACME	27.0
2 1/2"	69.6	91.3	78.56X1/8 TACME	30.15
3"	82.7	106.4	92.08X1/8 TACME	32.5
4"	108.9	137.6	120.14X1/8 TACME	38.1

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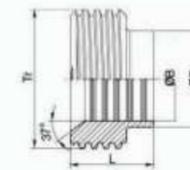
3A-13H Blind Nut(With Chain) 3A

Size	D5	Tr	L
1"	46.0	38.02X1/8 TACME	23.0
1 1/2"	61.1	51.54X1/8 TACME	24.6
2"	76.2	65.05X1/8 TACME	27.0
2 1/2"	91.3	78.56X1/8 TACME	30.15
3"	106.4	92.08X1/8 TACME	32.5
4"	137.6	120.14X1/8 TACME	38.1



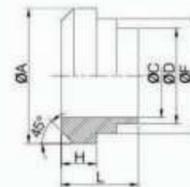
15TRF short/15A long threaded bevel seat ferrule 3A

Size	C	D	Tr	15TRF	15A	L
1"	22.1	25.4	37.13X1/8 TACME	18.3	34.9	18.3
1.5"	34.8	38.1	50.65X1/8 TACME	18.3	38.1	18.3
2"	47.5	50.8	64.17X1/8 TACME	19.1	38.1	19.1
2.5"	60.2	63.5	77.67X1/8 TACME	22.2	44.5	22.2
3"	72.9	76.2	91.19X1/8 TACME	23.1	44.5	23.1
4"	97.4	101.6	119.25X1/8 TACME	26.2	44.5	26.2



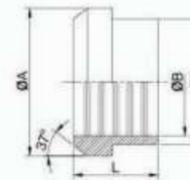
15R Expanding Male 3A

Size	Tr	B	D	L
1"	37.13X1/8 TACME	25.5	20.5	20.6
1.5"	50.65X1/8 TACME	38.2	42.6	28.6
2"	64.17X1/8 TACME	50.9	55.7	34.9
2.5"	77.67X1/8 TACME	63.6	68.8	38.1
3"	91.19X1/8 TACME	76.3	81.9	41.3
4"	119.25X1/8 TACME	101.7	108.1	41.3



14TRF short/14A long plain bevel seat ferrule 3A

Size	A	C	D	F	H	14TRF	14A	L
1"	33.3	22.1	25.4	29.5	7.9	18.3	34.9	18.3
1 1/2"	46.8	34.8	38.1	42.6	8.7	18.3	38.1	18.3
2"	60.3	47.5	50.8	55.7	10.3	19.1	38.1	19.1
2 1/2"	73.8	60.2	63.5	68.8	11.1	22.3	44.5	22.3
3"	87.3	72.9	76.2	81.9	11.9	23.1	44.5	23.1
4"	114.3	97.4	101.6	108.1	14.3	26.2	44.5	26.2



14R Expanding Liner

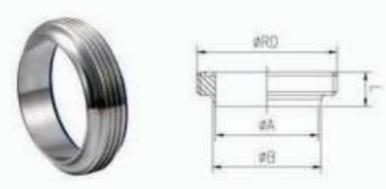
Size	A	B	D	L
1"	33.3	25.5	29.5	19.1
1.5"	46.8	38.2	42.6	26.6
2"	60.3	50.9	55.7	33.3
2.5"	73.8	63.6	68.8	34.9
3"	87.3	76.3	81.9	36.5
4"	114.3	101.7	108.1	38.1

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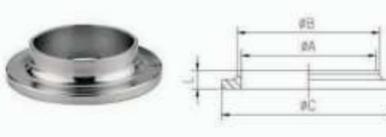
SMS Welding Male

size	A	B	RD	L
25	22.4	25.4	RD40x1/8"	18
32	28.8	31.8	RD48x1/8"	20
38	35	38	RD60x1/8"	20
51	48	51	RD70x1/8"	20
63	59.5	63.5	RD85x1/8"	22
76	72.2	76	RD98x1/8"	24
102	97.6	101.6	RD125x1/8"	25



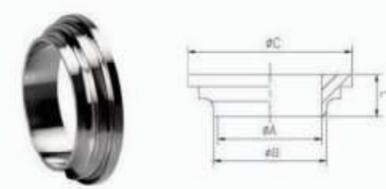
SMS Round Nut

size	A	Rd	B	L	SHORT
25	51	RD40x1/8"	32	19	6
38	73	RD60x1/8"	48	23	6
51	84	RD70x1/8"	60.5	24	6
63	98	RD85x1/8"	74	26	6
76	114	RD98x1/8"	87	27	6
102	140	RD125x1/8"	113	29	6



SMS short welding liner

size	A	B	C	L
25	22.4	25.4	35	9
38	35	38	55	10
51	48	51	65	10
63	59.5	63.5	80	10
76	72.2	76.2	93	10
102	97.6	101.6	120.5	10



SMS long welding liner

size	A	B	C	E
25	22.4	25.4	35	13
38	35	38	55	15
51	48	51	65	15
63	59.5	63.5	80	15
76	72.2	76.2	93	17
102	97.6	101.6	121	17

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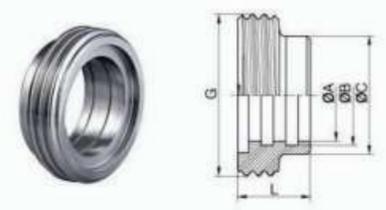
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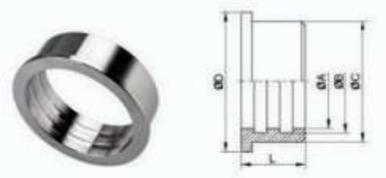
SMS blind nut with chain

size	A	B	RD
1"	51	19	RD40x1/8"
1 1/2"	73	23	RD60x1/8"
2"	84	24	RD70x1/8"
2 1/2"	98	26	RD85x1/8"
3"	114	27	RD98x1/8"
4"	140	29	RD125x1/8"



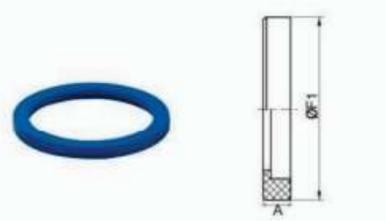
SMS Expanding Male

Size	A	B	C	D	L
25	25.6	26.2	32.0	RD40X1/8	20.0
32	32.0	32.6	40.0	RD48X1/8	20.0
38	38.3	38.9	47.9	RD60X1/8	23.0
51	51.0	51.6	60.4	RD70X1/8	25.0
63	63.7	64.3	73.5	RD85X1/8	30.0
76	76.4	77.2	86.5	RD98X1/8	30.0
102	101.8	102.6	112.5	RD125X1/4	30.0



SMS Expanding Liner

Size	A	B	C	D	L
25	25.6	26.2	32.0	35.0	17.0
32	32.0	32.6	40.0	43.0	17.0
38	38.3	38.9	47.9	55.0	20.0
51	51.0	51.6	60.4	65.0	20.0
63	63.7	64.3	73.5	80.0	22.0
76	76.4	77.2	86.5	93.0	24.0
102	101.8	102.6	112.5	120.5	27.0



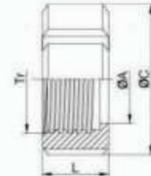
Gasket for Union

Size	A	F1
25	5.5	32.0
32	5.5	40.0
38	5.5	48.0
51	5.5	61.0
63	5.5	73.5
76	5.5	86.0
89	5.5	99.0
102	5.5	114.0

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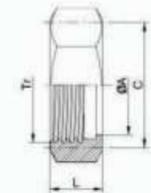
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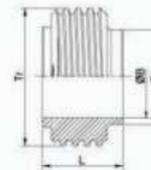
Round Nut ISO/IDF

Size	A	Tr	C	L
Ø25	30.5	38.02x1/8 TACME	48.0	30.0
Ø38	43.5	51.54x1/8 TACME	64.0	30.0
Ø51	57.0	65.05x1/8 TACME	77.0	30.0
Ø63	70.7	78.56x1/8 TACME	91.0	30.0
Ø76	83.3	92.08x1/8 TACME	106.0	30.0
Ø102	110.0	119.1x1/8 TACME	135.0	30.0



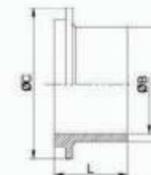
Hexagon Nut ISO/IDF

Size	A	Tr	C	L
Ø25	30.3	38.02x1/8 TACME	46.0	30.0
Ø38	43.5	51.54x1/8 TACME	61.0	30.0
Ø51	57.0	65.05x1/8 TACME	76.2	30.0
Ø63	70.7	78.56x1/8 TACME	91.3	30.0
Ø76	83.3	92.08x1/8 TACME	106.5	30.0
Ø102	110.0	119.1x1/8 TACME	137.7	30.0



Male ISO/IDF

Size	A	B	Tr	L
Ø25	25.4	22.4	Ø7.1x1/8 TACMC	21.5
Ø38	38.1	35.1	Ø9.6x1/8 TACME	21.5
Ø51	50.8	47.8	Ø12.1x1/8 TACME	21.5
Ø63	63.5	59.5	Ø14.6x1/8 TACME	21.5
Ø76	76.2	72.2	Ø17.1x1/8 TACME	21.5
Ø102	101.6	97.6	Ø22.2x1/8 TACME	21.5



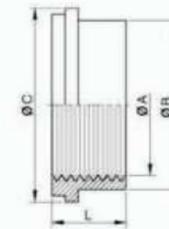
Liner ISO/IDF

Size	A	B	C	L
Ø25	25.4	22.4	33.8	21.5
Ø38	38.1	35.1	47.0	21.5
Ø51	50.8	47.8	60.5	21.5
Ø63	63.5	59.5	74.0	21.5
Ø76	76.2	72.2	87.5	21.5
Ø102	101.6	97.6	114.1	21.5

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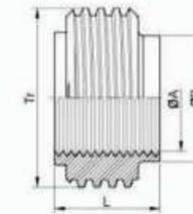
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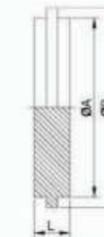
IDF-14R Expanding Liner

Size	A	B	C	L
Ø25	25.5	29.2	33.8	21.5
Ø38	38.2	42.7	47.0	21.5
Ø51	50.9	56.2	60.5	21.5
Ø63	63.6	69.9	74.0	21.5
Ø76	76.3	82.6	87.5	21.5
Ø102	101.7	111.1	114.1	21.5



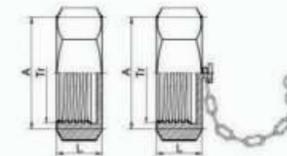
IDF-15R Expanding Male

Size	A	B	Tr	L
Ø25	25.5	29.2	37.13x1/8 TACME	21.5
Ø38	38.2	42.7	50.85x1/8 TACME	21.5
Ø50	50.9	56.2	64.16x1/8 TACME	21.5
Ø63	63.6	69.9	77.87x1/8 TACME	21.5
Ø76	76.3	82.6	91.16x1/8 TACME	21.5
Ø102	101.7	111.1	118.2x1/8 TACME	21.5



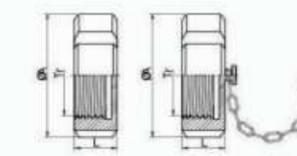
IDF-16AMP Blank

Size	A	B	L
Ø25	29.2	33.8	10.5
Ø38	42.7	47.0	10.5
Ø51	56.2	60.5	10.5
Ø63	69.9	74.0	10.5
Ø76	82.6	87.5	10.5
Ø102	111.1	114.1	10.5



Hexagon Blind Nut (With Chain)

Size	A	Tr	L
Ø25	48.0	38.02x1/8 TACME	30.0
Ø38	61.0	51.54x1/8 TACME	30.0
Ø51	76.2	65.05x1/8 TACME	30.0
Ø63	91.5	78.56x1/8 TACME	30.0
Ø76	106.5	92.08x1/8 TACME	30.0
Ø102	137.7	119.1x1/8 TACME	30.0



IDF-13 Blind Nut (With Chain)

Size	A	Tr	L
Ø25	48.0	38.02x1/8 TACME	30.0
Ø38	64.0	51.54x1/8 TACME	30.0
Ø51	77.0	65.05x1/8 TACME	30.0
Ø63	91.0	78.56x1/8 TACME	30.0
Ø76	106.0	92.08x1/8 TACME	30.0
Ø102	135.0	119.1x1/8 TACME	30.0



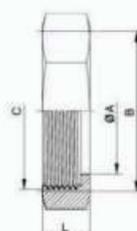
Gasket For Union

Size	A	L
Ø25	32.5	7.0
Ø38	46.0	7.0
Ø51	59.5	7.0
Ø63	73.0	7.0
Ø76	85.5	7.0
Ø102	114.0	7.0

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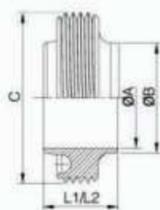
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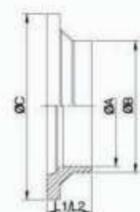
Hexagon Nut RJT

Size	A	B	C	L
1"	33.3	50.8	46.64X1/8 TWHIT	22.2
1 1/2"	46.0	65.0	59.34X1/8 TWHIT	22.2
2"	58.7	79.4	73.64X1/8 TWHIT	22.2
2 1/2"	71.4	92.1	86.34X1/8 TWHIT	22.2
3"	84.1	104.8	99.04X1/8 TWHIT	22.2
4"	109.5	130.2	124.44X1/8 TWHIT	22.2



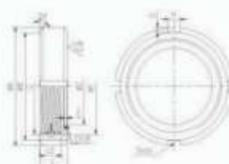
Male RJT

Size	A	B	C	L1	L2
1"	22.2	25.65	45.7x1/8TWHIT	27.0	
1 1/2"	34.9	38.35	58.4x1/8TWHIT	27.0	
2"	47.6	51.05	72.7x1/8TWHIT	27.0	
2 1/2"	60.3	63.75	86.4x1/8TWHIT	27.0	
3"	73.0	76.45	99.1x1/8TWHIT	27.0	
4"	97.6	101.85	123.5x1/8TWHIT	27.0	



Liner RJT

Size	A	B	C	L1	L2
1"	22.2	25.65	41.3	19.5	
1 1/2"	34.9	38.35	54.0	19.5	
2"	47.6	51.05	66.7	19.5	
2 1/2"	60.3	63.75	79.4	19.5	
3"	73.0	76.45	92.1	19.5	
4"	97.6	101.85	117.5	19.5	



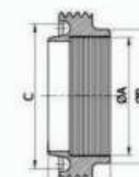
Round Nut RJT

Size	A	B	C	L
1"	59.5	51.5	46.64X1/8 TWHIT	22.2
1 1/2"	74.0	65.0	59.34X1/8 TWHIT	22.2
2"	87.5	78.5	73.64X1/8 TWHIT	22.2
2 1/2"	100.5	91.5	86.34X1/8 TWHIT	22.2
3"	113.0	104.0	99.04X1/8 TWHIT	22.2
4"	139.5	120.5	124.44X1/8 TWHIT	22.2

A-9

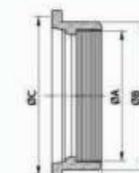
A

Sanitary Union



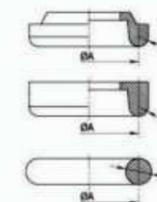
RJT Expanding Male

Size	A	B	C	L
1"	25.5	32.5	45.7x1/8TWHIT	27.0
1 1/2"	38.2	45.2	58.4x1/8TWHIT	27.0
2"	50.9	57.9	72.7x1/8TWHIT	27.0
2 1/2"	63.7	70.6	86.4x1/8TWHIT	27.0
3"	76.3	83.3	99.1x1/8TWHIT	27.0
4"	101.7	108.7	123.5x1/8TWHIT	27.0



RJT Expanding Liner

Size	A	B	C	L
1"	25.5	32.5	41.3	19.5
1 1/2"	38.2	45.2	54.0	19.5
2"	50.9	57.9	66.7	19.5
2 1/2"	63.7	70.6	79.4	19.5
3"	76.3	83.3	92.1	19.5
4"	101.7	108.7	117.5	19.5



Gasket for Union

Size	A	B	R
1"	33.3	6.6	3.2
1 1/2"	46.0	6.6	3.2
2"	58.7	6.6	3.2
2 1/2"	71.4	6.6	3.2
3"	84.1	6.6	3.2
4"	109.5	6.6	3.2
6"	162.6	6.6	3.2

A-10

B

Sanitary Clamp fitting



14WMP/14AMP Clamped Ferrule 3A

Size	A	B	C	D	Ø2
1/2"	25.2	9.4	12.7	12.7	28.6
3/4"	25.2	15.75	19.05	12.7	28.6
1"	50.5	22.1	25.4	12.7	28.6
1 1/4"	50.5	28.5	31.8	12.7	28.6
1 1/2"	50.5	34.8	38.1	12.7	28.6
2"	64.0	47.5	50.8	12.7	28.6
2 1/2"	77.5	60.2	63.5	12.7	28.6
3"	91.0	72.9	76.2	12.7	28.6
4"	119.0	97.4	101.6	15.9	28.6
6"	166.8	146.8	152.4	21.5	38.1
8"	217.7	197.6	203.2	21.5	38.1
10"	268.5	248.4	254	21.5	38.1
12"	319.3	299.2	304.8	21.5	38.1



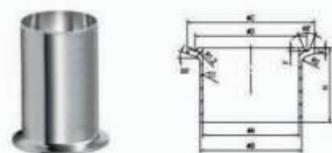
14RMP Expanding Clamped Ferrule 3A

Size	A	B	C	D
1"	50.5	25.5	29.5	19.1
1.5"	50.5	38.2	42.6	28.6
2"	64	50.9	55.7	33.3
2.5"	77.5	63.6	68.8	34.9
3"	91	76.3	81.9	36.5
4"	119	101.7	108.1	38.1
40mm	50.5	40.2	43.8	28.6



14MPHR Rubber Hose Adapter 3A

Size	A	B	D	L
1/2"	25.2	9.0	12.7	50.8
3/4"	25.2	15.0	19.0	50.8
1"	50.5	21.4	25.4	114.3
1 1/4"	50.5	27.8	31.8	114.3
1 1/2"	50.5	34.0	38.1	114.3
2"	64.0	47.0	50.8	114.3
2 1/2"	77.5	59.5	63.5	114.3
3"	91.0	72.2	76.2	114.3
4"	119.0	97.6	101.6	114.3



14WLMP Ferrule 3A

Size	A	B	C	H
1"	22.10	25.40	50.40	76.20
1 1/2"	34.80	38.10	50.40	76.20
2"	47.50	50.80	63.90	76.20
2 1/2"	60.20	63.50	77.40	76.20
3"	72.90	76.20	90.90	101.60
4"	97.40	101.60	118.92	101.60
6"	146.86	152.40	166.88	152.40

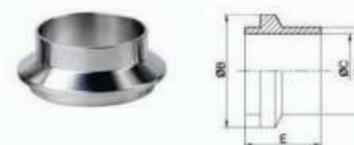
B-1

Sanitary Clamp fitting



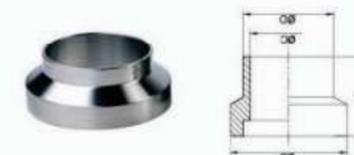
14MPW Ferrule 3A

Size	A	B	C	H
1"	22.10	29.46	50.40	41.28
1 1/2"	34.80	42.57	50.40	41.28
2"	47.50	55.68	63.90	44.45
2 1/2"	60.20	68.78	77.40	44.45
3"	72.90	81.89	90.90	46.05
4"	97.40	108.1	118.92	53.98
6"	146.86	157.28	166.88	63.50



14W/14WIL Ferrule 3A

Size	B	C	D	E	
				14WI	14WIL
1"	50.67	22.1	25.65	19.84	44.5
1 1/2"	50.67	34.8	38.35	23.8	46.7
2"	67.06	47.5	51.05	26.19	58.9
2 1/2"	84.0	60.2	63.75	29.36	63.4
3"	98.3	72.9	76.45	30.94	68.2
4"	123.7	97.38	101.85	34.11	76.2



15W/15WIL Ferrule 3A

Size	B	C	D	E	
				15WI	15WIL
1"	50.67	22.1	25.65	19.84	44.5
1 1/2"	50.67	34.8	38.35	23.8	46.7
2"	67.06	47.5	51.05	26.19	58.9
2 1/2"	84.0	60.2	63.75	29.36	63.4
3"	98.3	72.9	76.45	30.94	68.2
4"	123.7	97.38	101.85	34.11	76.2



16AMP Blank 3A

Size	A	D
1/2"-3/4"	25.2	5.0
A37	34.0	6.3
1-1.5"	50.5	6.3
2"	64.0	6.3
2.5"	77.5	6.3
3"	91.0	6.3
4"	119.0	7.9
6"	166.8	11.1
8"	217.7	11.1
10"	268.5	11.1
12"	319.3	11.1

B-2



B

Sanitary Clamp fitting



16AI-14WI Male Solid End Cap 3A

Size	A	B	C	D	E	F
1"	50.42	31.75	12.70	4.95	2.67	37°
1 1/2"	50.42	44.20	12.70	4.95	2.67	37°
2"	67.06	56.90	14.27	6.48	2.33	37°
2 1/2"	84.00	69.60	19.05	7.87	3.20	37°
3"	98.30	83.82	17.78	7.87	3.20	37°
4"	123.70	109.14	19.05	7.87	3.20	37°
6"	190.37	173.48	22.35	4.72	3.20	30°
8"	241.17	224.28	22.35	4.72	3.20	30°



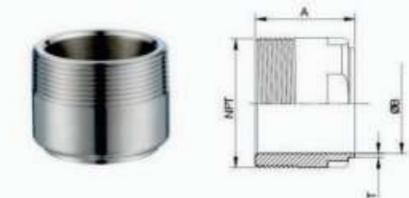
16AI-15WI Female Solid End Cap 3A

Size	A	B	C	D	E	F
1"	50.42	32.13	12.70	8.0	6.32	37°
1 1/2"	50.42	44.58	12.70	8.0	6.32	37°
2"	67.06	57.28	14.27	11.61	7.85	37°
2 1/2"	84.00	69.98	19.05	11.13	9.25	37°
3"	98.30	84.20	17.78	11.13	9.25	37°
4"	123.70	109.60	19.05	11.13	9.25	37°
6"	190.37	175.74	22.35	11.13	6.10	30°
8"	241.17	226.54	22.35	11.13	6.10	30°



16A End Cap 3A

Size	A	B	C	D	E
1"	33.4	29.5	3.3	8.1	12.6
1.5"	46.8	42.6	4.0	8.7	14.3
2"	60.5	55.7	4.0	10.4	16.0
2.5"	73.9	68.8	4.8	11.9	19.2
3"	87.5	81.9	4.8	11.9	19.3
4"	114.5	108.1	6.3	14.2	20.6



19WB Weld-Male NPT Adapter 3A

Size	A	B	T	NPT
1/2"	41.3	9.4	1.65	NPT1/2x14
3/4"	41.3	15.8	1.65	NPT3/4x14
1"	44.5	22.1	1.65	NPT1x11.5
1 1/4"	44.5	28.5	1.65	NPT1 1/4x11.5
1 1/2"	44.5	34.8	1.65	NPT1 1/2x11.5
2"	46.0	47.5	1.65	NPT2x11.5
2 1/2"	58.7	60.2	1.65	NPT2 1/2x8
3"	63.5	72.9	1.65	NPT3x8
4"	65.1	97.4	2.1	NPT4x8

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B

Sanitary Clamp fitting



19-14MP NPT Male Clamped Adapter 3A

Size	A	B	C	NPT
1/2"	54.0	9.4	25.1	NPT1/2x14
3/4"	54.0	15.8	25.1	NPT3/4x14
1"	57.2	22.1	50.4	NPT1x11.5
1 1/4"	57.2	28.5	50.4	NPT1 1/4x11.5
1 1/2"	57.2	34.8	50.4	NPT1 1/2x11.5
2"	58.7	47.5	63.9	NPT2x11.5
2 1/2"	71.4	60.2	77.4	NPT2 1/2x8
3"	76.2	72.9	90.9	NPT3x8
4"	81.0	97.4	118.9	NPT4x8



21MP NPT Male Hexagon Clamped Adapter 3A

Size	NPT	A
1"	3/4"	55.5
1"	1"	57.2
1 1/2"	1"	61.9
1 1/2"	1-1/2"	57.2
1 1/2"	2"	66.7
2"	1-1/2"	66.7
2"	2"	67.0
2 1/2"	2-1/2"	73.0
3"	1-1/2"	76.2
3"	2"	76.2
3"	2-1/2"	76.2
4"	3"	96.9
4"	4"	80.1



22MP NPT Female Clamped Adapter 3A

Size	NPT	A
1"	3/4"	41.3
1"	1"	41.3
1 1/2"	1"	57.2
1 1/2"	1-1/2"	57.2
1 1/2"	2"	63.5
2"	1-1/2"	56.5
2"	2"	61.1
2 1/2"	2-1/2"	55.5
3"	1-1/2"	55.5
3"	2"	55.5
3"	2-1/2"	55.5
3"	3"	55.5
4"	3"	55.5
4"	4"	92.8



22WB NPT Female Welded Adapter 3A

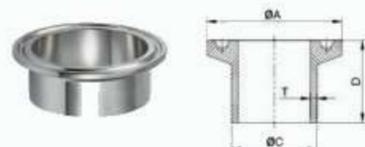
Size	A	B	T	NPT	D
1/2"	28.6	9.4	1.65	NPT 1/2x14	30.0
3/4"	28.6	15.8	1.65	NPT 3/4x14	33.3
1"	28.6	22.1	1.65	NPT 1x11.5	41.3
1 1/4"	36.5	28.5	1.65	NPT 1 1/4x11.5	47.6
1 1/2"	36.5	34.8	1.65	NPT 1 1/2x11.5	55.0
2"	36.5	47.5	1.65	NPT 2x11.5	73.0
2 1/2"	41.3	60.2	1.65	NPT 2 1/2x8	79.0
3"	48.0	72.9	1.65	NPT 3x8	100.0
4"	50.8	97.4	2.1	NPT 4x8	125.0

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B

Sanitary Clamp fitting



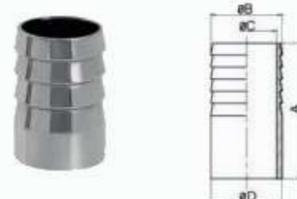
Clamped ferrule DIN

Size	A	C	D1	D2	T
DN15	34.0	18.0	18.0	28.0	1.5
DN20	34.0	22.0	18.0	28.0	1.5
DN25	50.4	28.0	21.5	28.0	1.5
DN32	50.4	34.0	21.5	28.0	1.5
DN40	50.4	40.0	21.5	28.0	1.5
DN50	64.0	52.0	21.5	28.0	1.5
DN65	90.9	70.0	28.0	28.0	2.0
DN80	106.0	85.0	28.0	28.0	2.0
DN100	118.8	104.0	28.0	28.0	2.0
DN155	145.0	129.0	28.0	28.0	2.0
DN183	167.0	154.0	28.0	28.0	2.0



Blank DIN

Size	A	D
DN15	34.00	6.40
DN20	34.00	6.40
DN25	50.50	6.40
DN32	50.50	6.40
DN40	50.50	6.40
DN50	64.00	6.40
DN65	91.00	6.40
DN80	106.00	6.40
DN100	119.00	7.90
DN125	144.50	11.10
DN125	155.00	11.10
DN150	167.00	11.10
DN150	183.00	11.10
DN200	217.40	11.10
DN200	233.50	11.10



Welded Hose Nipple (DIN 11864)

Size	A	B	C	D
DN15	50	19.5	16	19
DN20	48	23.5	20	23
DN25	58	30.0	26	29
DN32	68	35.5	32	35
DN40	78	43.0	38	41
DN50	88	55.0	50	53
DN65	97	73.0	66	70
DN80	107	89.0	81	85
DN100	116	108.0	100	104



Clamp Hose Nipple (DIN 11864)

Size	A	B	C	D
DN15	68	19.5	16	34
DN20	66	23.5	20	50.5
DN25	79.5	30.0	26	50.5
DN32	89.5	35.5	32	50.5
DN40	99.5	43.0	38	50.5
DN50	109.5	55.0	50	64
DN65	125	73.0	66	91
DN80	135	89.0	81	106
DN100	144	108.0	100	119

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B

Sanitary Clamp fitting



Union-type Hose Coupling (DIN 11864)

Size	A	B	C	D
DN15	63	19.5	16	RD34x 1/8
DN20	63	23.5	20	RD44x 1/8
DN25	75	30.0	26	RD52x 1/8
DN32	85	35.5	32	RD58x 1/8
DN40	95	43.0	38	RD65x 1/8
DN50	106	55.0	50	RD78x 1/8
DN65	117	73.0	66	RD95x 1/8
DN80	127	89.0	81	RD110x 1/4
DN100	140	108.0	100	RD130x 1/4



Male Hose Nipple (DIN 11864)

Size	A	B	C	D
DN15	67	19.5	16	RD34x 1/8
DN20	69	23.5	20	RD44x 1/8
DN25	82	30.0	26	RD52x 1/8
DN32	92	35.5	32	RD58x 1/8
DN40	102	43.0	38	RD65x 1/8
DN50	113	55.0	50	RD78x 1/8
DN65	125	73.0	66	RD95x 1/8
DN80	135	89.0	81	RD110x 1/4
DN100	150	108.0	100	RD130x 1/4

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B

Sanitary Clamp fitting



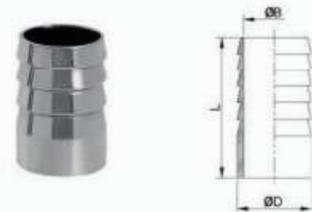
Ferrule SMS

Size	A	B	C	H	H1	H2
3/4"	19	16	34.00	12.70	21.50	28.60
1"	25.4	22.4	50.50	12.70	21.50	28.60
1 1/4"	31.8	28.8	50.50	12.70	21.50	28.60
1 1/2"	38	35	50.50	12.70	21.50	28.60
2"	51	48	64.00	12.70	21.50	28.60
2 1/2"	63.5	59.5	77.50	12.70	21.50	28.60
3"	76.2	72.2	91.00	12.70	21.50	28.60
4"	101.6	97.6	119.00	15.90	21.50	28.60



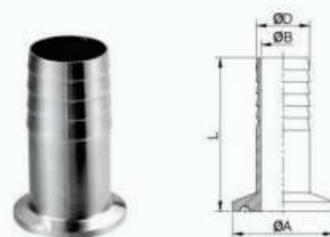
Blank SMS

Size	A	D
12.7-19	25.2	5.0
37	34.0	6.4
25-38	50.5	6.4
51	64.0	6.4
63	77.5	6.4
76	91.0	6.4
102	119.0	8.0
152.4	166.8	11.0
203	217.7	11.0
254	268.5	11.0
305	319.3	11.0



Welded hose coupling SMS

Size	B	D	L
12.7	9.0	12.7	45.0
19	15.0	19.0	45.0
25	21.4	25.4	60.0
32	27.8	31.8	60.0
38	34.0	38.1	60.0
51	47.0	50.8	60.0
63	59.5	63.5	70.0
76	72.2	76.2	80.0
102	97.6	101.6	80.0



Clamped hose coupling SMS

Size	A	B	D	L
12.7	25.2	9.0	12.7	66.0
19	25.2	15.0	19.0	66.0
25	50.5	21.4	25.4	81.0
32	50.5	27.8	31.8	81.0
38	50.5	34.0	38.1	81.0
51	64.0	47.0	50.8	81.0
63	77.5	59.5	63.5	91.0
76	91.0	72.2	76.2	101.0
102	119.0	97.6	101.6	101.0

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B

Sanitary Clamp fitting



Clamp Ferrule ISO/IDF

Size	B	C	A	T	D1	D2	D3
21.3	18.1	21.3	34	1.6	12.7	21.5	28.6
26.9	23.7	26.9	50.4	1.6	12.7	21.5	28.6
33.7	29.7	33.7	50.4	1.6	12.7	21.5	28.6
42.4	38.4	42.4	50.4	1.6	12.7	21.5	28.6
48.3	44.3	48.3	64	1.6	12.7	21.5	28.6
60.3	56.3	60.3	77.5	1.6	12.7	21.5	28.6
76.1	71.5	76.1	91	1.6	12.7	21.5	28.6
88.9	84.3	88.9	106	1.6	12.7	21.5	28.6
114.3	109.1	114.3	130	1.6	12.7	21.5	28.6



Blank (16AMP)

Size	A	D
A37	34	6.3
φ12.7-φ19	25.2	5.0
φ25-φ38	50.5	6.3
φ51	64.0	6.3
φ63	77.5	6.3
φ76	91.0	6.3
φ102	119.0	7.9
φ133	166.7	10.6
φ203	217.7	11.1
φ254	268.5	13.0
φ305	319.3	13.0

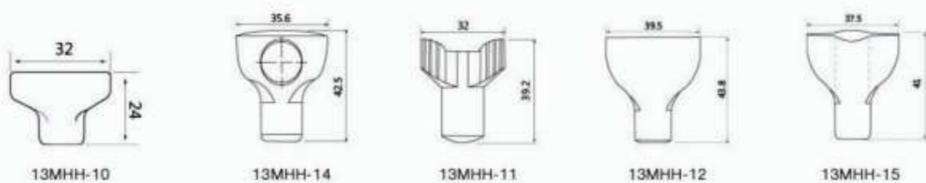
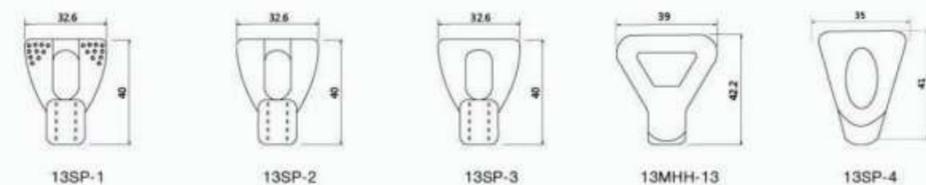
B-8



C

Sanitary Clamp & Pipe Holder

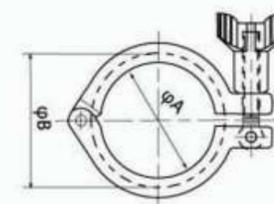
Clamp Nuts



C-1

C

Sanitary Clamp & Pipe Holder



Single pin clamp 13 MHH 3A

SIZE	Ø A	Ø B
A37	27.8	37
1-1 1/2"	44.4	53.8
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
5"	135.5	148X3.5
5"	135.5	148X5.6
5.5"	145	159
6.0"	155.4	170.4
DN150	173	187
8.0"	205	220
DN200	223	237
10"	258	272
12"	307	323



13MHH Mini heavy duty single pin clamp
SIZE: 1/2" - 3/4"

C-2



C

Sanitary Clamp & Pipe Holder



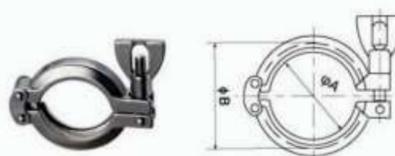
Single pin clamp 13 IS

SIZE	A
1-1 1/2"	54.0
2"	71.4
2 1/2"	88.9
3"	103.2
4"	127.0
6"	195.3
8"	246.0



Single pin clamp 13 IU

SIZE	A
1-1 1/2"	54.0
2"	71.4
2 1/2"	88.9
3"	103.2
4"	127.0
6"	195.3
8"	246.0



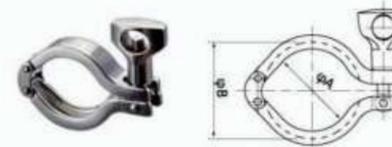
Double pin clamp 13SF

SIZE	φA	φB
1/2"-3/4"	20	20
A37	27.5	42.9
1"-1.5"	45	58.6
2.0"	59	72
2.5"	67	84
3.0"	85	98
4.0"	114	127
4 1/2"	123	133.2
5.0"	135.5	148x5.6
5.5"	145	159
6.0"	155.4	170.4x5.6
DN150	173	187
8.0"	206	220x5.6
DN200	223	237
10"	258	272x5.6
12"	307	323x5.6

C-3

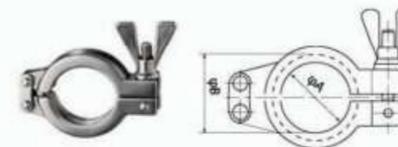
C

Sanitary Clamp & Pipe Holder



Double pin clamp 13MHHM 3A

SIZE	φA	φB
1/2"-3/4"	20	28
1.5"	43.0	53.6
2.0"	57	67
2.5"	70.6	80.6
3.0"	84	94
4.0"	112	122
4 1/2"	123	133.2
5.0"	135.5	148x5.6
5.5"	145	159
6.0"	155	170
DN150	145	159
8.0"	205	220.8
DN200	223	237
10"	258	272
12"	307	323



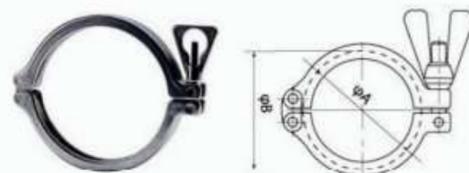
Double pin clamp 13EU

DIN 32676 ISO 2852	DIN 32676 ISO 1127	DIN 32676	
1/4"-3/4"	08-10	08-08	28.0
		10-15-20	37.0
1"-1 1/2"	15-20-25	25-32-40	53.0
2"	32-40	50	67.0
2 1/2"	50		80.0
3"	65	65	94.0
3 1/2"	80	80	108.0
4"		100	122.0
4 1/2"	100		133.0
5"			147.0
5 1/2"	125	125	158.0
6"			170.0

C-4

C

Sanitary Clamp & Pipe Holder



13CS Double pin clamp

SIZE	φA	φB
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
4.0"	109.54	122.04
DN100	112	123
DN115	123	134
DN125	144	159
6.0"	157.6	175.1
DN150	172	187
8.0"	207.4	225.9
DN200	222.5	237.5
DN250	257	272
DN300	308	323



Three pieces clamp 13 ISO-3P

SIZE	B3
1"	53.9
1 1/2"	53.9
2"	67.4
2 1/2"	80.9
3"	94.4
4"	122.4
4.5"	133.2
5"	148
5.5"	159
6"	170.4
DN150	187
8"	220
DN200	237
10"	272
12"	323
13"	356
14"	386
15"	406
16"	436
17"	456
18"	486
19"	506
20"	536
24"	638

C-5

C

Sanitary Clamp & Pipe Holder



SIZE: 1/2" - 3/4"

High pressure clamp 13 MHP

SIZE	φA	φB
1/2"-3/4"	20	28
1"-1.5"	43.3	52.0
2.0"	56.4	65.5
2.5"	69.5	79.0
3.0"	77.5	92.5
4.0"	108.8	120.5
5.0"	135.5	148
6.0"	158	170
8.0"	206	220
10"	258	272.8
12"	309	327.6



Pipe Holder ISO-Welded

SIZE	A	B
1/2"	12.7	58.4
3/4"	19.1	62.5
1 1/2"	25.4	65.7
2"	38.1	72
2"	50.8	78.4
2 1/2"	63.5	84.8
3"	76.2	91
4"	101.6	103.8
5"	129	117.4
6"	154	130
8"	204	155
10"	254	180
12"	304	205



Pipe Holder ISO-BSP(Male)

SIZE	A	B	C
1/2"	12.70	7.50	38.00
3/4"	19.05	7.50	38.00
1"	25.40	7.50	38.00
1 1/2"	38.10	7.50	45.00
2"	50.80	7.50	50.00
2 1/2"	63.50	7.50	60.00
3"	76.20	9.00	68.00
4"	101.60	9.00	78.00
5"	127	9.00	78.00
6"	152.40	9.00	82.00

C-6

C

Sanitary Clamp & Pipe Holder



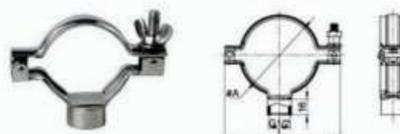
Pipe Holder 3A-BSP(Male)

Size	A	B	C
1"	25.4	3	5mm
1.5"	38.1	3	5mm
2"	50.8	4	6mm
2.5"	63.5	4	6mm
3"	76.2	5	7mm
4"	101.6	5	7mm
5"	127	5	7mm
6"	152.4	5	7mm
8"	203.2	6.5	7mm
10"	254	6.5	7mm
12"	304.8	6.5	7mm



TH1H Pipe Holder(Welded)

Size	A	L
1"	25.4	66
1 1/2"	38.1	79
2"	50.8	90
2 1/2"	63.5	105
3"	76.3	120
4"	101.6	146



TH1M Pipe Holder(Female)

Size	A	L
1"	25.4	66
1 1/2"	38.1	79
2"	50.8	90
2 1/2"	63.5	105
3"	76.3	120
4"	101.6	146



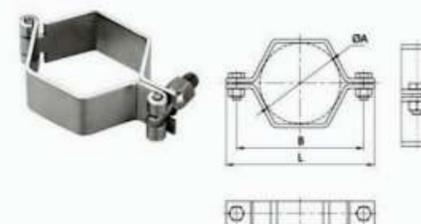
DN Pipe Holder

Size	A	H	L
1"	25.4	42.4	66.6
1 1/2"	38.1	55.1	79
2"	50.8	67.8	92
2 1/2"	63.5	80.5	127.6
3"	76.2	93.2	142
4"	101.6	122	175
6"	152.4	174	255

C-7

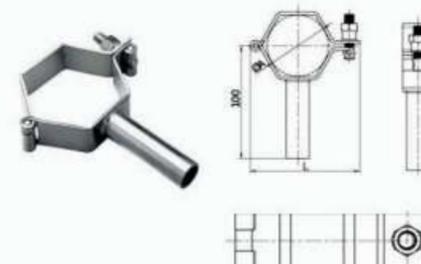
C

Sanitary Clamp & Pipe Holder



TH2 Pipe Holder

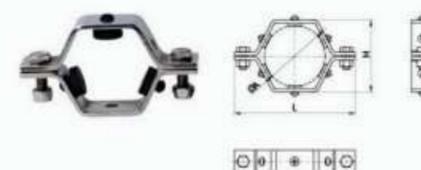
Size	A	B	L
ISO21.3	21.3	48	68
ISO26.9	26.6	55	74
ISO33.7	33.7	63	82
ISO42.4	42.4	74	93
ISO48.3	48.3	82	101
ISO60.3	60.3	95	114
ISO68.9	68.9	130	149
ISO114.3	114.3	158	177



TH3 Pipe Holder

Size	A	L
DIN28	28	64
DIN34	34	64
DIN40	40	78
DIN52	52	90
DIN70	70	111
DIN85	85	125
DIN101.6	101.6	152

Size	A	L
SMS25	25	61
SMS38	38	76
SMS51	51	90
SMS63.5	63.5	106
SMS76	76	120
SMS104	104	152



TH4 Pipe Holder

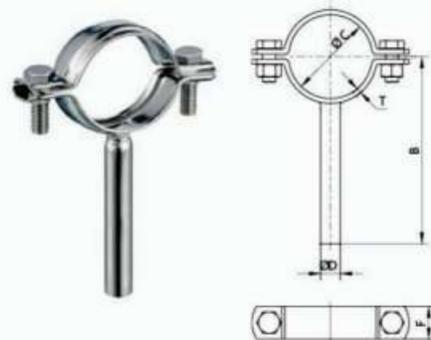
Size	A	H	L
1"	25.4	42.4	66.6
1 1/2"	38.1	55.1	79
2"	50.8	67.8	92
2 1/2"	63.5	80.5	127.6
3"	76.2	93.2	142
4"	104	122	175
6"	152.4	174	255

C-8



C

Sanitary Clamp & Pipe Holder

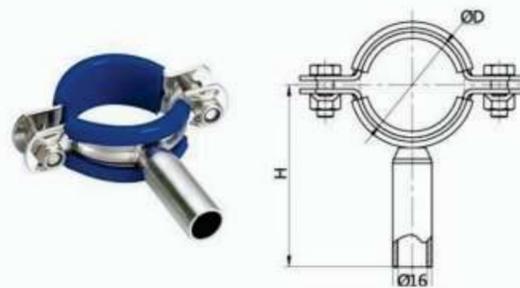


TH5 Pipe Holder

Size	B	D	C	F	T
DN10	63	8	12	14	2.0
DN15	66	8	18	14	2.0
DN20	68	8	22	16	2.0
DN25	71	10	28	16	2.0
DN32	74	10	34	16	2.0
DN40	77	10	40	20	2.0
DN50	83	12	52	20	2.0
DN65	92.5	12	70	20	2.5
DN80	100	12	85	25	2.5
DN100	110	12	104	25	3.0
DN125	140	16	129	25	3.0
DN150	152.5	16	154	30	3.0

Size	B	D	C	F	T
SMS25.4	69.5	10	25	16	2.0
SMS38.1	76	10	38	20	2.0
SMS50.8	82.5	12	51	20	2.0
SMS63.5	89.5	12	63.5	20	2.5
SMS76.2	95.5	12	76	25	2.5
SMS101.6	100	16	101.6	25	3.0

Size	B	D	C	F	T
ISO 32(1 1/4")	78	10	42.4	16	2.0
ISO 40(1 1/2")	81.5	12	48.3	20	2.0
ISO 50(2")	88	12	60.3	20	2.5
ISO 80(3")	102	12	88.9	25	2.5
ISO 100(4")	115	12	114.3	25	3.0
ISO 125(5")	145	16	139.7	25	3.0
ISO 150(6")	160	16	168.3	30	3.0
ISO 200(8")	196	20	219.1	30	4.0



TH6 Pipe Holder

Size	D	H
1/2"	12.7	90
3/4"	19.1	90
1"	25.4	90
1 1/2"	38.1	90
2"	50.8	90
2 1/2"	63.5	90
3"	76.2	90
4"	101.6	90
5"	129	117.5
6"	154	130
8"	204	155
10"	254	180
12"	304	205

C-9

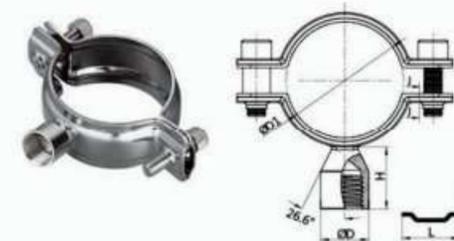
C

Sanitary Clamp & Pipe Holder



TH7H Pipe Holder

Size	D	D1	L	H	T
1/4"	8	6.2	12	47	1.5
1/2"	8	12.5	12	47	1.5
3/4"	19	19	25	47	1.5
1"	19	25.4	25	47	1.5
1 1/2"	19	38.1	25	47	1.5
2"	19	50.8	25	47	1.5
2 1/2"	19	63.5	25	47	2
3"	19	76.2	25	47	2
4"	19	101.6	28	47	2
5"	19	129	28	47	2.5
6"	19	154	28	47	2.5
8"	25	204	35	47	3
10"	25	254	35	47	3
12"	25	304	35	47	3



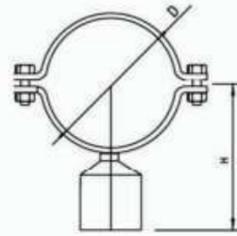
Pipe Holder (TH7M Female)

Size	D	D1	L	H	T
1/4"	8	6.2	12	47	1.5
1/2"	8	12.5	12	47	1.5
3/4"	19	19	25	47	1.5
1"	19	25.4	25	47	1.5
1 1/2"	19	38.1	25	47	1.5
2"	19	50.8	25	47	1.5
2 1/2"	19	63.5	25	47	2
3"	19	76.2	25	47	2
4"	19	101.6	28	47	2
5"	19	129	28	47	2.5
6"	19	154	28	47	2.5
8"	25	204	35	47	3
10"	25	254	35	47	3
12"	25	304	35	47	3

C-10

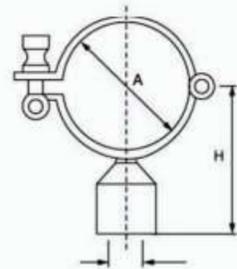
C

Sanitary Clamp & Pipe Holder



Pipe holder with double screw bolt

Size	D	H
1/2"	12.7	35.85
3/4"	19.1	39
1/2"NB	21.3	40.15
1"	25.4	42.2
3/4"NB	26.7	42.85
1 1/4"	32	45.5
1"NB	33.4	46.2
1 1/2"	38.1	48.55
1 1/4"NB	42.2	50.8
1 1/2"NB	48.3	53.65
2"	50.8	55
2"NB	60.3	59.85
2 1/2"	63.5	62
2 1/2"NB	73	66.5
3"	76.2	68
3"NB	89	74.5
4"	102	82
4"NB	114	88
5"	129	101.5
6"	154	114
6"NB	168	122
8"	204	139
10"	254	164
12"	304.8	189



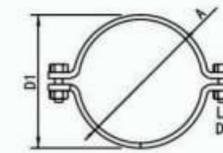
Pipe holder hinged type

Size	D	H
1/2"	12.7	35.85
3/4"	19.1	39
1/2"NB	21.3	40.15
1"	25.4	42.2
3/4"NB	26.7	42.85
1 1/4"	32	45.5
1"NB	33.4	46.2
1 1/2"	38.1	48.55
1 1/4"NB	42.2	50.8
1 1/2"NB	48.3	53.65
2"	50.8	55
2"NB	60.3	59.85
2 1/2"	63.5	62
2 1/2"NB	73	66.5
3"	76.2	68
3"NB	89	74.5
4"	102	82
4"NB	114	88

C-11

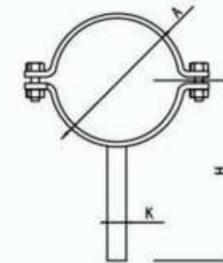
C

Sanitary Clamp & Pipe Holder



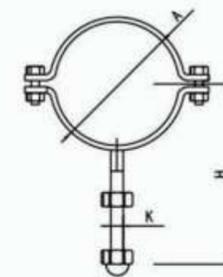
Pipe holder with thread shaft

Size	A	D1	D2
DN10	11-13	18	M6x20
DN15	17-19	24	M6x20
DN20	21-23	28	M6x20
DN25	27-29	34	M6x20
DN32	33-35	40	M6x20
DN40	39-41	46	M6x20
DN50	51-53	58	M6x20
DN65	69-71	76	M6x20
DN80	84-86	91	M6x25
DN100	103-105	110	M6x25
DN125	129-131	137	M6x30
DN150	154-156	164	M6x30
DN200	204-206	214	M10x30
DN250	254-256	266	M16x40



Pipe holder with shaft

Size	A	K	H
DN10	13	M6	64
DN15	19	M6	67
DN20	23	M6	69
DN25	29	M10	72
DN32	35	M10	75
DN40	41	M10	78
DN50	54	M12	84
DN65	70	M12	93
DN80	85	M12	100
DN100	104	M12	110
DN125	129	M16	140
DN150	154	M16	180
DN200	204	M20	240
DN250	254	M22	280



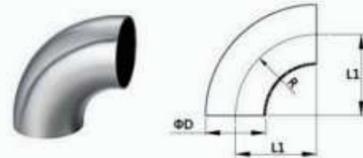
Pipe holder without shaft

Size	A	K	H
DN10	13	M6	74
DN15	19	M6	77
DN20	23	M6	79
DN25	29	M10	102
DN32	35	M10	105
DN40	41	M10	108
DN50	54	M12	114
DN65	70	M12	123
DN80	85	M12	130
DN100	104	M12	140
DN125	129	M16	168
DN150	154	M16	202
DN200	204	M20	255
DN250	254	M22	295

C-12

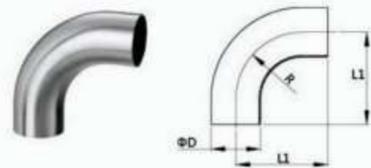
D

Pipe Fittings



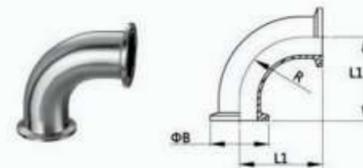
90° Welded Elbow DIN

Size	L1	D	R
DN10	26.0	12.0	26.0
DN15	35.0	18.0	35.0
DN20	40.0	22.0	40.0
DN25	50.0	28.0	50.0
DN32	55.0	34.0	55.0
DN40	60.0	40.0	60.0
DN50	70.0	52.0	70.0
DN65	80.0	70.0	80.0
DN80	90.0	85.0	90.0
DN100	100.0	104.0	100.0
DN125	187.0	129.0	187.0
DN150	225.0	154.0	225.0
DN200	300	204	300
DN250	375	254	375
DN300	450	306	450



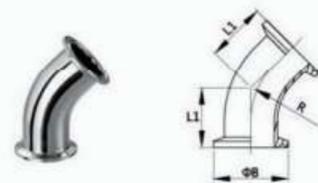
90° Welded Elbow With Straight Ends DIN

Size	L1	D	R
DN10	38.0	12.0	26.0
DN15	47.0	18.0	35.0
DN20	52.0	22.0	40.0
DN25	70.0	28.0	50.0
DN32	78.0	34.0	55.0
DN40	85.0	40.0	60.0
DN50	97.0	52.0	70.0
DN65	110.0	70.0	80.0
DN80	118.0	85.0	90.0
DN100	140.0	104.0	100.0



90° Clamped Elbow DIN

Size	L1	R	B
DN15	53.0	34.0	35.0
DN20	58.0	34.0	40.0
DN25	71.0	50.5	50.0
DN32	76.5	50.5	55.0
DN40	81.5	50.5	60.0
DN50	91.5	64.0	70.0
DN65	108.0	91.0	80.0
DN80	118.0	106.0	90.0
DN100	128.0	119.0	100.0



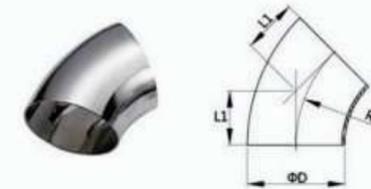
45° Clamped Elbow DIN

Size	L1	B	R
DN20	34.5	34.0	40.0
DN25	42.2	50.5	50.0
DN32	44.3	50.5	55.0
DN40	46.3	50.5	60.0
DN50	50.5	64.0	70.0
DN65	61.2	91.0	80.0
DN80	65.3	106.0	90.0
DN100	89.5	119.0	100.0

D-1

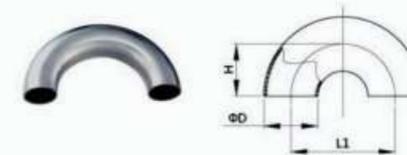
D

Pipe Fittings



45° Welded Elbow DIN

Size	L1	D	R
DN10	10.7	12.0	26.0
DN15	14.5	18.0	35.0
DN20	16.5	22.0	40.0
DN25	20.7	28.0	50.0
DN32	22.8	34.0	55.0
DN40	24.8	40.0	60.0
DN50	29.0	52.0	70.0
DN65	33.2	70.0	80.0
DN80	37.3	85.0	90.0
DN100	41.5	104.0	100.0
DN125	77.5	129.0	187.0
DN150	93.2	154.0	225.0



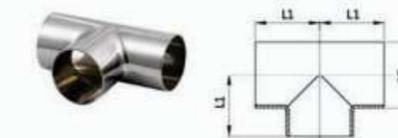
180° Welded Elbow DIN

Size	L1	D	H
DN10	52.0	12.0	26.0
DN15	70.0	18.0	35.0
DN20	80.0	22.0	40.0
DN25	100.0	28.0	50.0
DN32	110.0	34.0	55.0
DN40	120.0	40.0	60.0
DN50	140.0	52.0	70.0
DN65	160.0	70.0	80.0
DN80	180.0	85.0	90.0
DN100	200.0	104.0	100.0
DN125	375.0	129.0	187.5
DN150	450.0	154.0	225.0



Short welded Tee DIN

Size	L1	L2	D
DN10	7.5	26.0	12.0
DN15	10.5	35.0	18.0
DN20	12.5	40.0	22.0
DN25	16.0	50.0	28.0
DN32	19.5	55.0	34.0
DN40	22.5	60.0	40.0
DN50	30.0	70.0	52.0
DN65	39.5	80.0	70.0
DN80	47.5	90.0	85.0
DN100	58.0	100.0	104.0
DN125	70.5	187.0	129.0
DN150	83.0	225.0	154.0



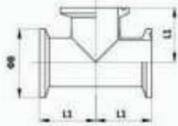
Long welded Tee DIN

Size	L1	D
DN10	26.0	12.0
DN15	35.0	18.0
DN20	40.0	22.0
DN25	50.0	28.0
DN32	55.0	34.0
DN40	60.0	40.0
DN50	70.0	52.0
DN65	80.0	70.0
DN80	90.0	85.0
DN100	100.0	104.0
DN125	187.0	129.0
DN150	225.0	154.0

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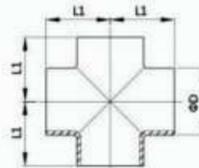
D

Pipe Fittings



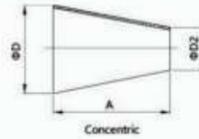
Clamped Tee DIN

Size	L1	B
DN15	53.0	34.0
DN20	58.0	34.0
DN25	71.5	50.5
DN32	76.5	50.5
DN40	81.5	50.5
DN50	91.5	64.0
DN65	108.0	91.0
DN80	118.0	106.0
DN100	128.0	119.0



Welded Cross DIN

Size	L1	Ø
DN25	50.0	28.0
DN32	55.0	34.0
DN40	60.0	40.0
DN50	70.0	52.0
DN65	80.0	70.0
DN80	90.0	85.0
DN100	100.0	104.0



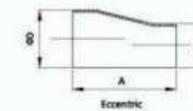
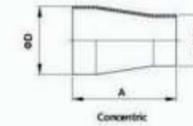
Welded Reducer DIN

Size	A	D	D2
DN20/15	7.0	22.0	18.0
DN25/20	11.0	28.0	22.0
DN32/20	22.0	34.0	22.0
DN32/25	11.0	34.0	28.0
DN40/20	33.0	40.0	22.0
DN40/25	22.0	40.0	28.0
DN40/32	11.0	40.0	34.0
DN50/25	44.0	52.0	28.0
DN50/32	33.0	52.0	34.0
DN50/40	22.0	52.0	40.0
DN65/25	73.0	70.0	28.0
DN65/32	62.0	70.0	34.0
DN65/40	51.0	70.0	40.0
DN65/50	29.0	70.0	52.0
DN80/40	78.0	85.0	40.0
DN80/50	58.0	85.0	52.0
DN80/65	27.0	85.0	70.0
DN100/50	90.0	104.0	52.0
DN100/65	61.0	104.0	70.0
DN100/80	34.0	104.0	85.0

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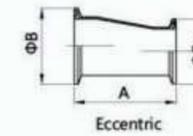
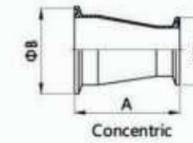
D

Pipe Fittings



Welded Reducer DIN

Size	A	D3	D2
DN20/15	60.0	22.0	18.0
DN25/20	60.0	28.0	22.0
DN32/20	80.0	34.0	22.0
DN32/25	80.0	34.0	28.0
DN40/20	102.0	40.0	22.0
DN40/25	102.0	40.0	28.0
DN40/32	98.0	40.0	34.0
DN50/25	115.0	52.0	28.0
DN50/32	129.0	52.0	34.0
DN50/40	113.0	52.0	40.0
DN65/25	125.0	70.0	28.0
DN65/32	125.0	70.0	34.0
DN65/40	120.0	70.0	40.0
DN65/50	130.0	70.0	52.0
DN80/40	140.0	85.0	40.0
DN80/50	125.0	85.0	52.0
DN80/65	120.0	85.0	70.0
DN100/50	160.0	104.0	52.0
DN100/65	127.0	104.0	70.0
DN100/80	120.0	104.0	85.0



Clamped Reducer DIN

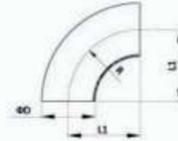
Size	A	B	Ba
DN20/15	86.0	34.0	34.0
DN25/20	86.0	50.5	34.0
DN32/20	106.0	50.5	34.0
DN32/25	106.0	50.5	50.5
DN40/20	128.0	50.5	34.0
DN40/25	128.0	50.5	50.5
DN40/32	128.0	50.5	50.5
DN50/25	141.0	64.0	50.5
DN50/32	141.0	64.0	50.5
DN50/40	141.0	64.0	50.5
DN65/25	151.0	91.0	50.5
DN65/32	151.0	91.0	50.5
DN65/40	146.0	91.0	50.5
DN65/50	146.0	91.0	64.0
DN80/40	166.0	106.0	50.5
DN80/50	151.0	106.0	64.0
DN80/65	146.0	106.0	91.0
DN100/50	192.0	119.0	64.0
DN100/65	159.0	119.0	91.0
DN100/80	152.0	119.0	106.0

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D

Pipe Fittings



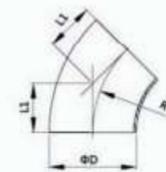
90° Welded Elbow SMS

Size	L1	D	R
12.7	19.05	12.7	19.05
19	28.6	19	28.6
25	38.1	25.4	38.1
32	47.7	31.8	47.7
38	57.1	38.1	57.1
51	76.2	50.8	76.2
63	95.2	63.5	95.2
76	114.3	76.2	114.3
102	152.4	101.6	152.4
127	190.5	127	190.5
152	228.6	152.4	228.6



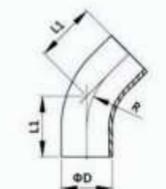
90° Welded Elbow with straight ends SMS

Size	L1	D	R
25	55.0	25.4	25.0
38	70.0	38.1	38.0
51	82.0	50.8	58.0
63	105.0	63.5	63.5
76	110.0	76.2	78.0
102	150.0	101.6	110.0



45° Short welded Elbow SMS

Size	L1	D	R
25	15.5	25.4	38.1
38	23.6	38.1	57.2
51	31.8	50.8	76.2
63	39.5	63.5	95.3
76	47.2	76.2	114.3
102	63.0	101.6	152.4

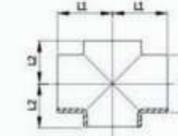


45° Long welded Elbow SMS

Size	L1	D	R
25	42.5	25.4	25
38	56.8	38.1	38
51	68.6	50.8	51
63	78.4	63.5	63
76	85.2	76.2	76
102	103.0	101.6	152.4

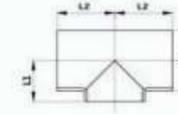
D-5

Pipe Fittings



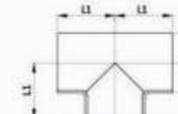
Welded Cross SMS

Size	L1	L2	D
25	55.0	15.0	25.4
38	70.0	21.5	38.1
51	82.0	29.0	50.8
63.5	105.0	36.0	63.5
76.2	110.0	43.0	76.2
102	150.0	57.0	101.6



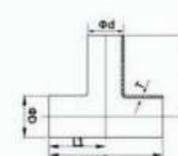
Short welded Tee SMS

Size	L1	L2	D
25	15.0	55.0	25.4
38	21.5	70.0	38.1
51	29.0	82.0	50.8
63	36.0	105.0	63.5
76	43.0	110.0	76.2
102	57.0	150.0	101.6



Long welded Tee SMS

Size	L1	D
12.7	55.0	12.7
19	55.0	19
25	55.0	25.4
32	62.5	32
38	70.0	38.1
51	82.0	50.8
63	105.0	63.5
76	110.0	76.2
102	150.0	101.6



Reducing Welded Tee SMS

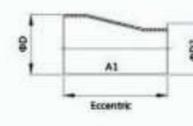
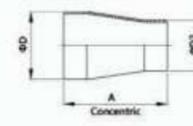
Size	L	L1	φ D	φ d	T
25x19	110	55.0	25.0	19.05	1.25
38x19	140	70.0	38.0	19.05	1.25
38x25	140	70.0	38.0	25.0	1.25
51x25	164	82.0	51.0	25.0	1.25
51x38	164	82.0	51.0	38.0	1.25
63.5x25	210	105.0	63.5	25.0	1.5
63.5x38	210	105.0	63.5	38.0	1.5
63.5x51	210	105.0	63.5	51.0	1.5
76.1x25	220	110.0	76.1	25.0	1.6
76.1x38	220	110.0	76.1	38.0	1.6
76.1x51	220	110.0	76.1	51.0	1.6
76.1x63	220	110.0	76.1	63.0	1.6
101.6x51	300	150.0	101.6	51.0	2.0
101.6x63	300	150.0	101.6	63.5	2.0
101.6x76	300	150.0	101.6	76.1	2.0

D

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D

Pipe Fittings



Welded Reducer SMS

Size	A	A1	D	D2
1.5" / 1.0"	39.0	46.0	38.1	25.4
2.0" / 1.0"	57.0	68.0	50.8	25.4
2.0" / 1.5"	39.0	47.0	50.8	38.1
2.5" / 1.0"	74	92	63.5	25.4
2.5" / 1.5"	57.0	70.0	63.5	38.1
2.5" / 2.0"	39.0	44.0	63.5	50.8
3.0" / 1.0"	92	117	76.2	25.4
3.0" / 1.5"	74.0	92.0	76.2	38.1
3.0" / 2.0"	57.0	68.0	76.2	50.8
3.0" / 2.5"	39.0	47.0	76.2	63.5
4.0" / 1.5"	112	47.0	101.6	38.1
4.0" / 2.0"	95.0	117.0	101.6	50.8
4.0" / 2.5"	78.0	94.0	101.6	63.5
4.0" / 3.0"	60.0	74.0	101.6	76.2

Concentric Reducers With Straight End SMS

Size	ø D	ø d	L	T
25x19	25.0	19.05	85.0	1.25
38x19	38.0	19.05	85.0	1.25
38x25	38.0	25.0	99.0	1.25
51x25	51.0	25.0	117.0	1.25
51x38	51.0	38.0	99.0	1.25
63.5x25	63.5	25.0	134.0	1.5
63.5x38	63.5	38.0	117.5	1.5
63.5x51	63.5	51.0	99.0	1.5
76.1x25	76.1	25.0	152.0	1.6
76.1x38	76.1	38.0	134.0	1.6
76.1x51	76.1	51.0	117.0	1.6
76.1x63	76.1	63.5	99.0	1.6
102x51	102.0	51.0	155.0	2.0
102x63	102.0	63.5	138.0	2.0
102x76	102.0	76.1	120.0	2.0

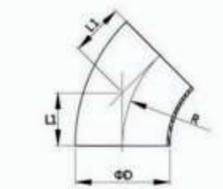
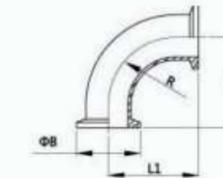
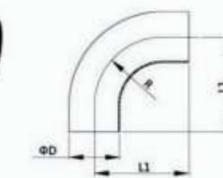
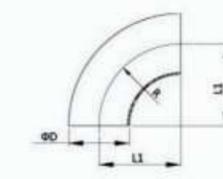
Eccentric Reducers With Straight End SMS

Size	ø D	ø d	L	T
38x25	38.0	25.0	106.0	1.25
51x25	51.0	25.0	128.0	1.25
51x38	51.0	38.0	107.0	1.25
63.5x25	63.5	25.0	150.5	1.5
63.5x38	63.5	38.0	130.0	1.5
63.5x51	63.5	51.0	104.0	1.5
76.1x38	76.1	38.0	149.0	1.6
76.1x51	76.1	51.0	128.0	1.6
76.1x63	76.1	63.5	107.0	1.6
101x51	101.6	51.0	177.0	2.0
101x63	101.6	63.5	154.0	2.0
101x76	101.6	76.1	134.0	2.0
102x51	102.0	51.0	177.0	2.0
102x63	102.0	63.5	154.0	2.0
102x76	102.0	76.1	134.0	2.0

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D

Pipe Fittings



2WCL-90° Welded Elbow 3A

Size	L1	D	R
1/2"	19.1	12.7	19.1
3/4"	28.6	19.1	28.6
1"	38.1	25.4	38.1
1 1/4"	47.6	32	47.6
1 1/2"	57.2	38.1	57.2
2"	76.2	50.8	76.2
2 1/2"	95.3	63.5	95.3
3"	114.3	76.2	114.3
4"	152.4	101.6	152.4
5"	190.5	127.0	190.5
6"	228.6	152.4	228.6
8"	304.8	203.2	304.8
10"	381	254	381
12"	457.2	304.8	457.2

L2S-90° Welded Elbow with straight ends 3A

Size	L1	D	R
1/2"	76.2	12.7	19.1
3/4"	76.2	19.1	28.6
1"	52.4	25.4	38.1
1 1/2"	74.6	38.1	57.2
2"	103.2	50.8	76.2
2 1/2"	131.8	63.5	95.3
3"	160.3	76.2	114.3
4"	211.1	101.6	152.4
6"	292.1	152.4	228.6
8"	279.4	152.4	228.6

2CMP-90° Clamped Elbow 3A

Size	L1	B	R
1"	50.8	50.5	38.1
1 1/2"	69.0	50.5	57.2
2"	88.9	64.0	76.2
2 1/2"	108.0	77.5	95.3
3"	127.0	91.0	114.3
4"	168.2	119.0	152.4
6"	250.8	167	228.6

2WK-45° Welded Elbow 3A

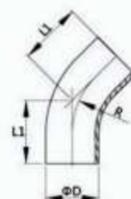
Size	L1	D	R
1/2"	7.0	12.7	19.05
3/4"	11.9	19	28.5
1"	15.8	25.4	38.1
1 1/4"	19.7	32	47.6
1 1/2"	23.8	38.1	57.2
2"	31.8	50.8	76.2
2 1/2"	39.6	63.5	95.3
3"	47.6	76.2	114.3
4"	63.5	101.6	152.4
5"	78.9	127	190.5
6"	94.7	152.4	228.6
8"	127	203.2	304.8
10"	158.75	254	381

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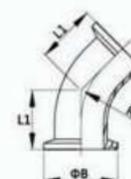
D

Pipe Fittings



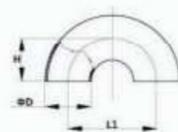
L2KS-45° Welded Elbow with straight ends 3A

Size	L1	D	R
1"	30.2	25.4	38.1
1 1/2"	41.3	38.1	57.2
2"	58.7	50.8	76.2
2 1/2"	76.2	63.5	95.3
3"	93.7	76.2	114.3
4"	122.2	101.6	152.4
6"	158.2	152.4	228.6



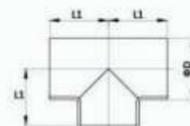
2KMP-45° Clamped Elbow 3A

Size	L1	B	R
1"	28.5	50.5	38.1
1 1/2"	36.5	50.5	57.2
2"	44.5	64.0	76.2
2 1/2"	52.3	77.5	95.3
3"	60.3	91.0	114.3
4"	76.2	119.0	152.4



2WU-180° Welded Elbow 3A

Size	L1	D	H
1"	76.2	25.4	38.1
1 1/2"	114.3	38.1	57.2
2"	152.4	50.8	76.2
2 1/2"	190.5	63.5	95.3
3"	228.6	76.2	114.3
4"	304.8	101.6	152.4



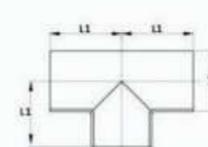
7WWW-Short welded Tee 3A

Size	L1	D
1/2"	28.6	12.7
3/4"	28.6	19
1"	28.6	25.4
1 1/2"	42.0	38.1
2"	52.3	50.8
2 1/2"	59.5	63.5
3"	65.9	76.2
4"	87.3	101.6
5"	127	127
6"	127	152.4

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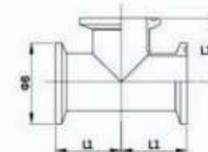
D

Pipe Fittings



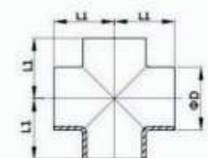
7W-Long welded Tee 3A

Size	L1	D
1/2"	47.6	12.7
3/4"	47.6	19
1"	47.6	25.4
1 1/4"	52.4	32
1 1/2"	57.2	38.1
2"	76.2	50.8
2 1/2"	76.2	63.5
3"	82.6	76.2
4"	98.4	101.6
5"	132.5	127
6"	143	152.4
8"	177.8	203.2
10"	216	254



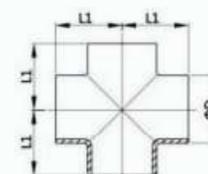
7MP-Clamped Tee 3A

Size	L1	B
1/2"	60.3	25.2
3/4"	60.3	25.2
1"	60.3	50.5
1 1/2"	69.9	50.5
2"	88.9	64.0
2 1/2"	88.9	77.5
3"	95.3	91.0
4"	114.2	119.0
6"	164.5	167
8"	199.3	217.7



9W-Welded Cross (Long-type) 3A

Size	L1	D
1/2"	47.6	12.7
3/4"	47.6	19
1"	47.6	25.4
1 1/2"	57.2	38.1
2"	76.2	50.8
2 1/2"	76.2	63.5
3"	82.6	76.2
4"	98.4	101.6
6"	143	152.4
8"	177.8	203.2



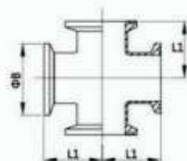
9WWW-Welded Cross (Short-type) 3A

Size	L1	D
1"	28.6	25.4
1 1/2"	42.1	38.1
2"	52.4	50.8
2 1/2"	54.5	63.5
3"	65.9	76.2
4"	87.3	101.6

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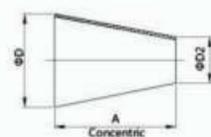
D

Pipe Fittings



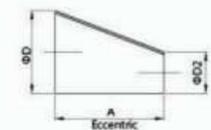
9MP-ClampedCross 3A

Size	L1	B
1/2"	60.3	25.2
3/4"	60.3	25.2
1"	60.3	50.5
1 1/2"	69.9	50.5
2"	88.9	64.0
2 1/2"	88.9	91.0
3"	95.3	106.0
4"	114.3	119.0
6"	164.5	167

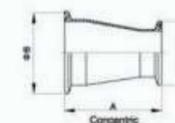


L31/32-Welded Reducer 3A

Size	A	D	D2
1"0.5"	50.8	25.4	12.7
1.5"0.75"	76.2	38.1	19
1.5"1.0"	50.8	38.1	25.4
2.0"1.0"	101.6	50.8	25.4
2.0"1.5"	50.8	50.8	38.1
2.5"1.0"	152.4	63.5	25.4
2.5"1.5"	101.6	63.5	38.1
2.5"2.0"	50.8	63.5	50.8
3.0"1.0"	203.2	76.2	25.4
3.0"1.5"	152.4	76.2	38.1
3.0"2.0"	101.6	76.2	50.8
3.0"2.5"	50.8	76.2	63.5
4.0"1.0"	304.8	101.6	25.4
4.0"1.5"	254	101.6	38.1
4.0"2.0"	203.2	101.6	50.8
4.0"2.5"	152.4	101.6	63.5
4.0"3.0"	101.6	101.6	76.2
5.0"3.0"	127	127	76.2
5.0"4.0"	127	127	101.6
6.0"2.0"	140	152.4	50.8
6.0"2.5"	140	152.4	63.5
6.0"3.0"	140.0	152.4	76.2
6.0"4.0"	140.0	152.4	101.6
8.0"3.0"	152.4	203.2	76.2
8.0"4.0"	152.4	203.2	101.6
8.0"6.0"	152.4	203.2	152.4
10.0"6.0"	177.8	254	152.4
10.0"8.0"	177.8	254	203.2
12.0"6.0"	203.2	304.8	152.4
12.0"8.0"	203.2	304.8	203.2

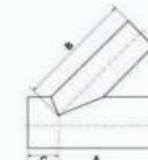
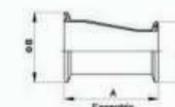


Pipe Fittings



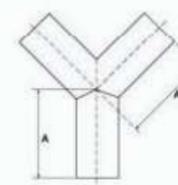
31-14MP/32-14MP Clamped Reducer 3A

Size	A	B	Ba
1.5"1.0"	76.2	50.5	50.5
2.0"1.0"	127.0	64.0	50.5
2.0"1.5"	76.2	64.0	50.5
2.5"1.5"	127.0	77.5	50.5
2.5"2.0"	76.2	77.5	64.0
3.0"1.5"	177.8	91.0	50.5
3.0"2.0"	127.0	91.0	64.0
3.0"2.5"	76.2	91.0	77.5
4.0"2.0"	231.8	119.0	64.0
4.0"2.5"	181.0	119.0	77.5
4.0"3.0"	130.2	119.0	91.0



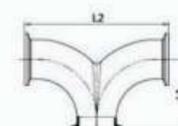
28WA-Butt weld Y-type Tee 3A

Size	A	B	C
1/2"	152.4	127.0	25.4
3/4"	152.4	127.0	25.4
1"	152.4	127.0	25.4
1 1/2"	187.3	173.1	30.2
2"	222.2	180.9	41.3
2 1/2"	254	215.9	38.1
3"	273.1	225.4	47.6
4"	325.5	273.1	52.4
6"	419.1	317.5	101.6



28WB-Butt weld Y-type Tee 3A

Size	A
1/2"	50.8
3/4"	50.8
1"	76.2
1 1/2"	76.2
2"	101.6
2 1/2"	127
3"	152.4
4"	203.2
6"	203.2



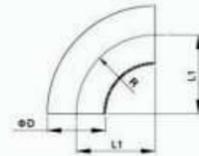
90°Clamp Double Bend 3A

Size	L1	L2
1"	50.8	101.6
1 1/2"	69.85	139.7
1 1/4"	60.4	120.8
2"	88.9	177.8
2 1/2"	107.9	215.9
3"	127.0	228.6
4"	168.4	336.8

D

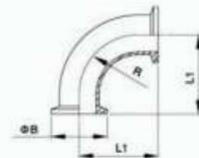
D

Pipe Fittings



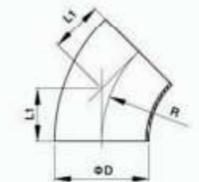
90° Welded Elbow ISO/IDF

Size	L1	D	R
48	57		57
60	76		76
1"	33.5	25.4	33.5
1 1/4"	38.0	32.0	38.0
1 1/2"	48.5	38.1	48.5
2"	60.5	50.8	60.5
2 1/2"	83.5	63.5	83.5
3"	88.5	76.2	88.5
3 1/2"	103.5	89.0	103.5
4"	127	101.6	127
4 1/2"	152.4	114.3	152.4
5"	190.5	133.0	190.5
6"	228.6	150.0	228.6



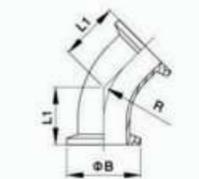
90° Clamped Elbow ISO/IDF

Size	L1	B	R
φ25	55.0	50.5	33.5
φ32	59.5	50.5	38.0
φ38	70.0	50.5	48.5
φ51	82.0	64.0	60.5
φ63	105.0	77.5	83.5
φ76	110.0	91.0	88.5
φ89	125.0	106.0	103.5
φ102	143.5	119.0	122
φ102	148.5	119.0	129



45° Welded Elbow ISO/IDF

Size	L1	D	R
1"	13.9	25.4	33.5
1 1/4"	15.7	32.0	38.0
1 1/2"	20.1	38.1	48.5
2"	25.1	50.8	60.5
2 1/2"	34.6	63.5	83.5
3"	38.7	76.2	88.5
3 1/2"	42.9	89.0	103.5
4"	50.8	101.6	122
102	52.8	101.6	127



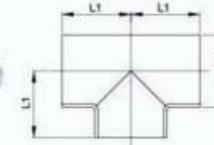
45° Clamped Elbow ISO/IDF

Size	L1	D	R
φ25	35.4	50.5	33.5
φ32	37.2	50.5	38.0
φ38	41.6	50.5	48.5
φ51	46.8	64.0	60.5
φ63	56.1	77.5	83.5
φ76	59.2	91.0	88.5
φ89	64.4	106.0	103.5
φ102	72.3	119.0	122
φ102	80.5	119.0	127

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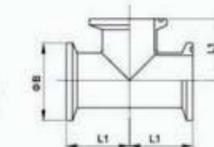
D

Pipe Fittings



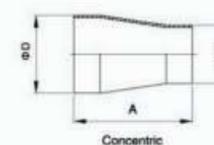
Welded Tee ISO/IDF

Size	L1	D
12.7	38.2	25.4
19	60	25.4
1"	33.5	25.4
1 1/4"	38.1	31.8
1 1/2"	48.5	38.1
2"	60.5	50.8
2 1/2"	83.5	63.5
3"	88.5	76.2
3 1/2"	103.5	88.9
4"	127	101.6
4 1/2"	152.4	114.3
5"	190	133.0
6"	228.6	150.0



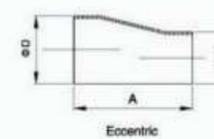
Clamped Tee ISO/IDF

Size	L1	D
1"	55.0	50.5
1 1/4"	59.5	50.5
1 1/2"	70.0	50.5
2"	82.0	64.0
2 1/2"	105	77.5
3"	110	91.0
3 1/2"	125	106.0
4"	148.5	119.0



Welded Reducer ISO/IDF

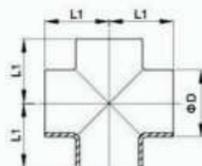
Size	A	D	D2
1.0"/0.75"	38.0	25.4	19.05
1.25"/1.0"	50.0	31.8	25.4
1.5"/1.25"	50.0	38.1	31.8
1.5"/1.0"	50.0	38.1	25.4
2.0"/1.5"	67.0	50.8	38.1
2.0"/1.25"	67.0	50.8	31.8
2.0"/1.0"	67.0	50.8	25.4
2.5"/2.0"	67.0	63.5	50.8
2.5"/1.5"	67.0	63.5	38.1
2.5"/1.0"	67.0	63.5	25.4
3.0"/2.5"	67.0	76.2	63.5
3.0"/2.0"	67.0	76.2	50.8
3.0"/1.5"	67.0	76.2	38.1
3.5"/3.0"	76	88.9	76.2
3.5"/2.5"	67.0	88.9	63.5
3.5"/2.0"	67.0	88.9	50.8
4.0"/3.5"	87	101.6	88.9
4.0"/3.0"	87	101.6	76.2
4.0"/2.5"	87	101.6	63.5
4.0"/2.0"	87	101.6	50.8



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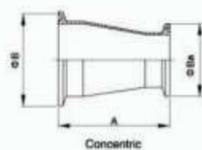
D

Pipe Fittings



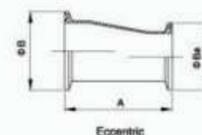
Welded Cross ISO/IDF

Size	L1	D
1"	33.5	25.4
1 1/4"	38.0	32.0
1 1/2"	48.5	38.0
2"	60.5	51.0
2 1/2"	83.5	63.5
3"	88.5	76.0
3 1/2"	103.5	89.0
4"	127	101.6



Clamped Reducer ISO/IDF

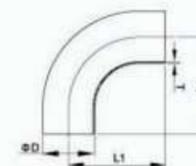
Size	A	D	Ba
1.0"/0.75"	64	50.5	34.0
1.25"/1.0"	76	50.5	50.5
1.5"/1.25"	76	50.5	50.5
1.5"/1.0"	76	50.5	50.5
2.0"/1.5"	93	64.0	50.5
2.0"/1.25"	93	64.0	50.5
2.0"/1.0"	93	64.0	50.5
2.5"/2.0"	93	77.5	64.0
2.5"/1.5"	93	77.5	50.5
2.5"/1.0"	93	77.5	50.5
3.0"/2.5"	93	91.0	77.5
3.0"/2.0"	93	91.0	64.0
3.0"/1.5"	93	91.0	50.5
3.5"/3.0"	93	106.0	91.0
3.5"/2.5"	93	106.0	77.5
3.5"/2.0"	93	106.0	64.0
4.0"/3.5"	118	119.0	106.0
4.0"/3.0"	118	119.0	91.0
4.0"/2.5"	118	119.0	77.5
4.0"/2.0"	118	119.0	64.0



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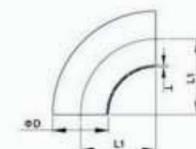
D

Pipe Fittings



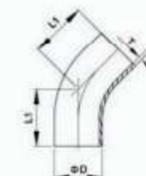
90° Long welded Elbow with straight ends AS

Size	L1	D	T
1/2"	49.1	12.7	1.6
3/4"	58.6	19.1	1.6
1"	68.1	25.4	1.6
1 1/4"	77.7	31.8	1.6
1 1/2"	87.0	38.1	1.6
2"	106.2	50.8	1.6
2 1/2"	125.0	63.5	1.6
3"	144.2	76.2	1.6
4"	182.4	101.6	2.0



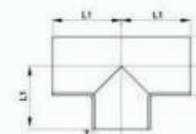
90° Welded Elbow AS

Size	L1	D	T
1/2"	19.1	12.7	1.6
3/4"	28.6	19.1	1.6
1"	38.1	25.4	1.6
1 1/4"	47.7	31.8	1.6
1 1/2"	57.0	38.1	1.6
2"	76.2	50.8	1.6
2 1/2"	95.0	63.5	1.6
3"	114.2	76.2	1.6
4"	152.4	101.6	2.0



45° Long welded Elbow AS

Size	L1	D	T
1/2"	37.9	12.7	1.6
3/4"	41.8	19.1	1.6
1"	45.8	25.4	1.6
1 1/4"	49.7	31.8	1.6
1 1/2"	53.7	38.1	1.6
2"	61.8	50.8	1.6
2 1/2"	69.5	63.5	1.6
3"	77.3	76.2	1.6
4"	92.8	101.6	2.0



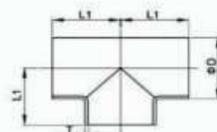
Long welded Tee AS

Size	L1	D	T
1/2"	49.1	12.7	1.6
3/4"	58.6	19.1	1.6
1"	68.1	25.4	1.6
1 1/4"	77.7	31.8	1.6
1 1/2"	87.0	38.1	1.6
2"	106.2	50.8	1.6
2 1/2"	125.0	63.5	1.6
3"	144.2	76.2	1.6
4"	182.4	101.6	2.0

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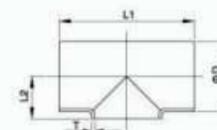
D

Pipe Fittings



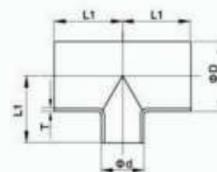
Equal welded Tee AS

Size	L1	D	T
1/2"	19.1	12.7	1.6
3/4"	28.6	19.1	1.6
1"	38.1	25.4	1.6
1 1/4"	47.7	31.8	1.6
1 1/2"	57.0	38.1	1.6
2"	76.2	50.8	1.6
2 1/2"	95.0	63.5	1.6
3"	114.2	76.2	1.6
4"	152.4	101.6	2.0



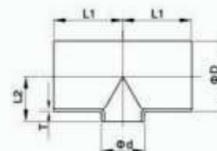
Short welded Tee AS

Size	L1	L2	D	T
1/2"	38.2	9.35	12.7	1.6
3/4"	57.2	12.55	19.1	1.6
1"	76.2	15.7	25.4	1.6
1 1/4"	95.4	18.9	31.8	1.6
1 1/2"	114.0	22.05	38.1	1.6
2"	152.4	28.4	50.8	1.6
2 1/2"	190.0	34.75	63.5	1.6
3"	228.4	41.1	76.2	1.6
4"	304.8	53.8	101.6	2.0



Reducing welded Tee AS

Size	L1	D	d	T
1 1/2"x 1"	80	38.1	25.4	1.6
2"x 1"	80	50.8	25.4	1.6
2"x 1 1/2"	80	50.8	38.1	1.6
2 1/2"x 1 1/2"	80	63.5	38.1	1.6
2 1/2"x 2"	80	63.5	50.8	1.6
3"x 1 1/2"	80	76.2	38.1	1.6
3"x 2"	80	76.2	50.8	1.6
3"x 2 1/2"	80	76.2	63.5	1.6
4"x 2"	80	101.6	50.8	1.6
4"x 2 1/2"	80	101.6	63.5	1.6
4"x 3"	80	101.6	76.2	2.0



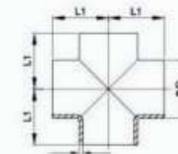
Short reducing welded Tee AS

Size	L1	L2	D	d	T
1 1/2"x 1"	80	22.05	38.1	25.4	1.6
2"x 1"	80	28.4	50.8	25.4	1.6
2"x 1 1/2"	80	28.4	50.8	38.1	1.6
2 1/2"x 1 1/2"	80	34.75	63.5	38.1	1.6
2 1/2"x 2"	80	34.75	63.5	50.8	1.6
3"x 1 1/2"	80	41.1	76.2	38.1	1.6
3"x 2"	80	41.1	76.2	50.8	1.6
3"x 2 1/2"	80	41.1	76.2	63.5	1.6
4"x 2"	80	53.8	101.6	50.8	1.6
4"x 2 1/2"	80	53.8	101.6	63.5	1.6
4"x 3"	80	53.8	101.6	76.2	2.0

D-17

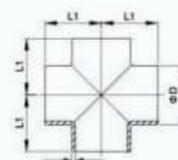
D

Pipe Fittings



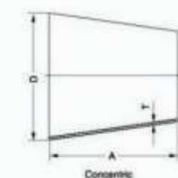
Long welded Cross AS

Size	L1	D	T
1/2"	49.1	12.7	1.6
3/4"	58.6	19.1	1.6
1"	68.1	25.4	1.6
1 1/4"	77.7	31.8	1.6
1 1/2"	87.0	38.1	1.6
2"	106.2	50.8	1.6
2 1/2"	125.0	63.5	1.6
3"	144.2	76.2	1.6
4"	182.4	101.6	2.0



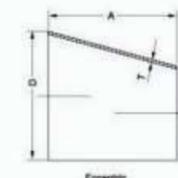
Short welded Cross AS

Size	L1	D	T
1/2"	19.1	12.7	1.6
3/4"	28.6	19.1	1.6
1"	38.1	25.4	1.6
1 1/4"	47.7	31.8	1.6
1 1/2"	57.0	38.1	1.6
2"	76.2	50.8	1.6
2 1/2"	95.0	63.5	1.6
3"	114.2	76.2	1.6
4"	152.4	101.6	2.0



Welded Reducer AS

Size	A	B	D	T
3/4"x 1/2"	19.1	12.7	19.1	1.6
1"x 1/2"	25.4	12.7	25.4	1.6
1"x 3/4"	25.4	19.1	25.4	1.6
1 1/4"x 3/4"	31.8	19.1	31.8	1.6
1 1/4"x 1"	31.8	25.4	31.8	1.6
1 1/2"x 3/4"	38.1	19.1	38.1	1.6
1 1/2"x 1"	38.1	25.4	38.1	1.6
2"x 1/2"	50.8	12.7	50.8	1.6
2"x 3/4"	50.8	19.1	50.8	1.6
2"x 1"	50.8	25.4	50.8	1.6
2"x 1 1/4"	50.8	31.8	50.8	1.6
2"x 1 1/2"	50.8	38.1	50.8	1.6
2 1/2"x 1"	63.5	25.4	63.5	1.6
2 1/2"x 1 1/4"	63.5	31.8	63.5	1.6
2 1/2"x 1 1/2"	63.5	38.1	63.5	1.6
2 1/2"x 2"	63.5	50.8	63.5	1.6
3"x 1"	76.2	25.4	76.2	1.6
3"x 1 1/4"	76.2	31.8	76.2	1.6
3"x 1 1/2"	76.2	38.1	76.2	1.6
3"x 2"	76.2	50.8	76.2	1.6
3"x 2 1/2"	76.2	63.5	76.2	1.6
4"x 1"	101.6	25.4	101.6	2.0
4"x 1 1/4"	101.6	31.8	101.6	2.0
4"x 1 1/2"	101.6	38.1	101.6	2.0
4"x 2"	101.6	50.8	101.6	2.0
4"x 2 1/2"	101.6	63.5	101.6	2.0
4"x 3"	101.6	76.2	101.6	2.0

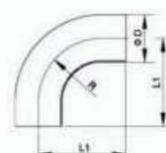


D-18



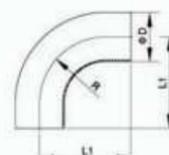
D

Pipe Fittings



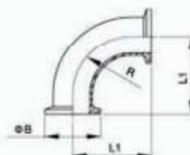
90° Welded Elbow BS4825

Size	L1	R	D
1"	43.5	38.1	25.4
1 1/2"	63.5	57.2	38.1
2"	88.5	76.2	50.8
2 1/2"	113.5	95.3	63.5
3"	133.5	114.3	76.2
4"	173.5	152.4	101.6



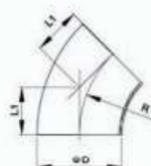
90° Welded Elbow with straight ends BS4825

Size	L1	R	D
1"	65.0	38.1	25.4
1 1/2"	85.0	57.2	38.1
2"	110.0	76.2	50.8
2 1/2"	135.0	95.3	63.5
3"	155.0	114.3	76.2
4"	195.0	152.4	101.6



90° Clamped Elbow BS4825

Size	L1	B	R
1"	65.0	50.5	38.1
1 1/2"	85.0	50.5	57.2
2"	110.0	64	76.2
2 1/2"	135.0	77.5	95.3
3"	155.0	91	114.3
4"	195.0	119	152.4



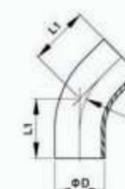
45° Short welded Elbow BS4825

Size	L1	D	R
1"	15.8	25.4	38.1
1 1/2"	23.7	38.1	57.2
2"	31.8	50.8	76.2
2 1/2"	39.8	63.5	95.3
3"	47.5	76.2	114.3
4"	63.2	101.0	152.4

D-19

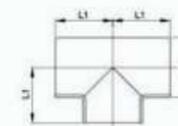
D

Pipe Fittings



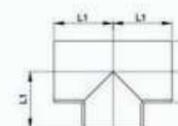
45° Long welded Elbow BS4825

Size	L1	D	R
1"	30.2	25.4	38.1
1 1/2"	41.3	38.1	57.2
2"	58.7	50.8	76.2
2 1/2"	76.2	63.5	95.3
3"	93.7	76.2	114.3
4"	122.2	101.6	152.4



Short welded Tee BS4825

Size	L1	D
1"	43.5	25.4
1 1/2"	63.5	38.1
2"	88.5	50.8
2 1/2"	113.5	63.5
3"	133.5	76.2
4"	173.5	101.6



Long welded Tee BS4825

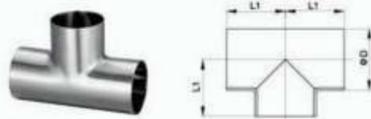
Size	L1	D
1"	65.0	25.4
1 1/2"	85.0	38.1
2"	110.0	50.8
2 1/2"	135.0	63.5
3"	155.0	76.2
4"	195.0	101.6

D-20

D

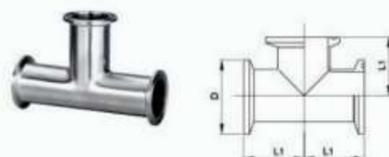
Pipe Fittings

BS4825



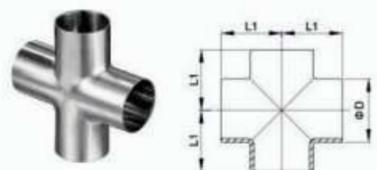
Long welded Tee BS4825

Size	L1	D
1/2"	47.8	12.7
3/4"	50.8	19.05
1"	54.0	25.4
1 1/2"	60.3	38.1
2"	73.0	50.8
2 1/2"	79.4	63.5
3"	85.7	76.2
4"	104.8	101.6



Clamped Tee BS4825

Size	L1	D
1/2"	57.2	25.4
3/4"	60.3	25.4
1"	66.7	50.5
1 1/2"	73.0	50.5
2"	85.7	64.0
2 1/2"	92.1	77.5
3"	98.4	91.0
4"	120.7	119.0



Welded Cross BS4825

Size	L1	D
1"	65.0	25.4
1 1/2"	85.0	38.1
2"	110.0	50.8
2 1/2"	135.0	63.5
3"	155.0	76.2
4"	195.0	101.6

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E

Sanitary Cleaning Ball



Welded Fixed Cleaning Ball

DN	Size								
	Ø B	Ø A	Ø B	SMS	Ø B	ISO	Ø B	A	Q
DN15	18.0	1/2"	12.7	12.7	12.7	12.7	12.7	54.0	40.0
DN20	22.0	3/4"	19.05	19	19.05	19	19.1	64.0	50.0
DN25	28.0	1"	25.4	25	25.4	25	25.4	72.0	63.0
DN32	34.0	1 1/4"	31.8	32	31.8	32	31.8	79.0	65.0
DN40	40.0	1 1/2"	38.1	38	38.1	38	38.1	85.0	76.0
DN50	52.0	2"	50.8	51	50.8	51	50.8	97.0	91.0
DN65	70.0	2 1/2"	63.5	63	63.5	63	63.5	102.0	100.0



Clamped Fixed Cleaning Ball

Size	A	Q	K	
DN15	1/2"	70.0	53.0	50.5
DN20	3/4"	77.0	63.0	50.5
DN25	1"	80.0	63.0	50.5
DN32	1 1/4"	93.0	76.0	50.5
DN40	1 1/2"	93.0	76.0	50.5
DN50	2"	108.0	91.0	64.0
DN65	2 1/2"	115.0	100.0	77.5



Male Fixed Cleaning Ball

Size	A	Q	B	
DN15	1/2"	52.0	40.0	G 1/2
DN20	3/4"	62.0	50.0	G 3/4
DN25	1"	72.0	63.0	G 1
DN32	1 1/4"	85.0	65.0	G 1 1/4
DN40	1 1/2"	87.0	76.0	G 1 1/2
DN50	2"	102.0	91.0	G 2



Welded Fixed Cleaning Ball

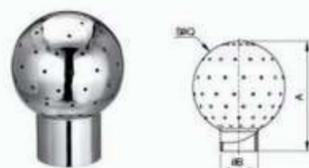
DN	Size								
	Ø C	Ø A	Ø C	SMS	Ø C	ISO	Ø C	A	Q
DN15	18.0	1/2"	12.7	12.7	12.7	12.7	12.7	54.0	40.0
DN20	22.0	3/4"	19.05	19	19.05	19	19.1	64.0	50.0
DN25	28.0	1"	25.4	25	25.4	25	25.4	72.0	63.0
DN32	34.0	1 1/4"	31.8	32	31.8	32	31.8	79.0	65.0
DN40	40.0	1 1/2"	38.1	38	38.1	38	38.1	85.0	76.0
DN50	52.0	2"	50.8	51	50.8	51	50.8	97.0	91.0
DN65	70.0	2 1/2"	63.5	63	63.5	63	63.5	102.0	100.0

E-1



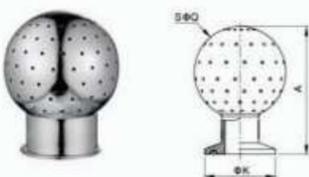
E

Sanitary Cleaning Ball



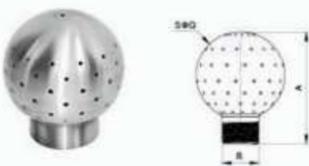
Welded Fixed Cleaning Ball

DIN	Size								
	φB	3A	φB	SMS	φB	ISO	φB	A	Q
DN15	18.0	1/2"	12.7	12.7	12.7	φ12.7	12.7	42.0	30.0
DN20	22.0	3/4"	19.05	19	19.05	φ19	19.1	55.0	40.0
DN25	28.0	1"	25.4	25	25.4	φ25	25.4	73.0	53.0
DN32	34.0	1 1/4"	31.8	32	31.8	φ32	31.8	87.0	63.0
DN40	40.0	1 1/2"	38.1	38	38.1	φ38	38.1	91.0	65.0
DN50	52.0	2"	50.8	51	50.8	φ51	50.8	100.0	76.0
DN65	70.0	2 1/2"	63.5	63	63.5	φ63	63.5	125.0	100.0



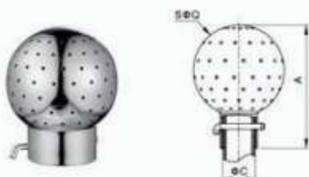
Clamped Fixed Cleaning Ball

DIN	Size			
	φB	A	Q	K
DN15	1/2"	84.0	63.0	50.5
DN20	3/4"	84.0	63.0	50.5
DN25	1"	84.0	63.0	50.5
DN32	1 1/4"	84.0	63.0	50.5
DN40	1 1/2"	84.0	63.0	50.5
DN50	2"	97.0	76.0	64.0
DN65	2 1/2"	127.0	100.0	91.0



Male Fixed Cleaning Ball

DIN	Size			
	φB	A	Q	B
DN15	1/2"	53.0	38.0	G 1/2
DN20	3/4"	73.0	53.0	G 3/4
DN25	1"	87.0	63.0	G 1
DN32	1 1/4"	90.0	65.0	G 1 1/4
DN40	1 1/2"	100.0	76.0	G 1 1/2
DN50	2"	115.0	91.0	G 2



Bolted Fixed Cleaning Ball

DIN	Size								
	φC	3A	φC	SMS	φC	ISO	φC	A	Q
DN15	18.0	1/2"	12.7	12.7	12.7	φ12.7	12.7	55.0	32.0
DN20	22.0	3/4"	19.05	19	19.05	φ19	19.1	68.0	40.0
DN25	28.0	1"	25.4	25	25.4	φ25	25.4	86.0	53.0
DN32	34.0	1 1/4"	31.8	32	31.8	φ32	31.8	100.0	63.0
DN40	40.0	1 1/2"	38.1	38	38.1	φ38	38.1	105.0	65.0
DN50	52.0	2"	50.8	51	50.8	φ51	50.8	115.0	76.0
DN65	70.0	2 1/2"	63.5	63	63.5	φ63	63.5	140.0	100.0

E-2

Sanitary Cleaning Ball



Welded Rotary Cleaning Ball

DIN	Size								
	φB	3A	φB	SMS	φB	ISO	φB	A	Q
DN15	18.0	1/2"	12.7	12.7	12.7	φ12.7	12.7	110.0	40.0
DN20	22.0	3/4"	19.05	19	19.05	φ19	19.1	137.0	53.0
DN25	28.0	1"	25.4	25	25.4	φ25	25.4	143.0	53.0
DN32	34.0	1 1/4"	31.8	32	31.8	φ32	31.8	145.0	53.0
DN40	40.0	1 1/2"	38.1	38	38.1	φ38	38.1	145.0	53.0
DN50	52.0	2"	50.8	51	50.8	φ51	50.8	180.0	76.0
DN65	70.0	2 1/2"	63.5	63	63.5	φ63	63.5	200.0	76.0



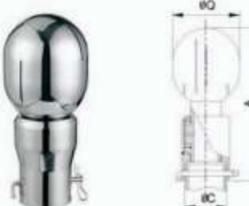
Clamped Rotary Cleaning Ball

DIN	Size			
	φB	A	Q	K
DN15	1/2"	120.0	40.0	50.5
DN20	3/4"	138.0	53.0	50.5
DN25	1"	138.0	53.0	50.5
DN32	1 1/4"	138.0	53.0	50.5
DN40	1 1/2"	138.0	53.0	50.5
DN50	2"	168.0	76.0	64.0
DN65	2 1/2"	190.0	76.0	91.0



Threaded Rotary Cleaning Ball

DIN	Size			
	φB	A	Q	B
DN15	1/2"	110.0	40.0	G 1/2
DN20	3/4"	138.0	53.0	G 3/4
DN25	1"	140.0	53.0	G 1
DN32	1 1/4"	160.0	53.0	G 1 1/4
DN40	1 1/2"	170.0	53.0	G 1 1/2
DN50	2"	192.0	76.0	G 2
DN65	2 1/2"	220.0	76.0	G 2 1/2



Bolted Rotary Cleaning Ball

DIN	Size								
	φC	3A	φC	SMS	φC	ISO	φC	A	Q
DN15	18.0	1/2"	12.7	12.7	12.7	φ12.7	12.7	110.0	40.0
DN20	22.0	3/4"	19.05	19	19.05	φ19	19.1	137.0	53.0
DN25	28.0	1"	25.4	25	25.4	φ25	25.4	135.0	53.0
DN32	34.0	1 1/4"	31.8	32	31.8	φ32	31.8	137.0	53.0
DN40	40.0	1 1/2"	38.1	38	38.1	φ38	38.1	150.0	53.0
DN50	52.0	2"	50.8	51	50.8	φ51	50.8	168.0	76.0
DN65	70.0	2 1/2"	63.5	63	63.5	φ63	63.5	190.0	76.0

E

E-3

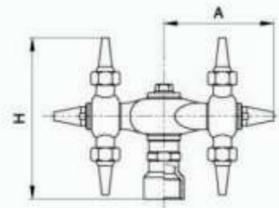
E

Sanitary Cleaning Ball



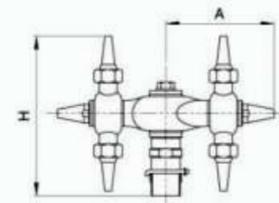
Threaded Rotary Cleaning Ball

Size	A	H	Pressure (bar)	Cleaning radius (m)	Fluxation (m ³ /h)
1"	118.0	165.0	1.5-2.0	2.0-3.0	23
1 1/4-1 1/2"	142.0	189.0	1.8-2.5	2.5-3.0	38
2"	145.0	191.0	2.5-3.0	3.5-4.0	60



Bolted Rotary Cleaning Ball

Size	A	H	Pressure (bar)	Cleaning radius (m)	Fluxation (m ³ /h)
1"	118.0	175.0	1.5-2.0	2.0-3.0	23
1 1/4-1 1/2"	142.0	200.0	1.8-2.5	2.5-3.0	38
2"	145.0	205.0	2.5-3.0	3.5-4.0	60



E-4

F

Sanitary Strainer



Material

Steel parts: 304 or 316L
Seal: EPDM (with standard) or NBR (optional)

Technical parameter

Work pressure: 0-10 bar
Work temperature: -20- +135 °C (EPDM as seal)
Temperature range: -10°C to 250°C



Screen: Metal Mesh

Mesh	B (mm)	Useful surface (%)
30	0.55	48
40	0.40	48
60	0.30	52.6
80	0.20	42
100	0.15	36.2
165	0.10	45.4



Screen: Perforated Plate

A (mm)	Useful surface (%)
0.5	15
1	28
1.5	33
2	30
3	33
5	46

F-1



F

Sanitary Strainer



Welded Straight Strainer

DIN	Size								H	B
	DxT	SA	DxT	SMS	DxT	ISO/IDF	DxT			
DN25	28x1.5	1"	25.4x1.65	25	25.4x1.5	φ25	25.4x1.5	325.0	114.0	
DN32	34x1.5	1 1/4"	31.8x1.65	32	31.8x1.5	φ32	31.8x1.5	330.0	114.0	
DN40	40x1.5	1 1/2"	38.1x1.65	38	38.1x1.5	φ38	38.1x1.5	330.0	114.0	
DN50	52x1.5	2"	50.8x1.65	51	50.8x1.5	φ51	50.8x1.5	350.0	125.0	
DN65	70x2	2 1/2"	63.5x1.65	63	63.5x2	φ63	63.5x2	405.0	138.0	
DN80	85x2	3"	76.2x1.65	76	76.2x2	φ76	76.2x2	500.0	148.0	
DN100	104x2	4"	101.6x2.1	102	101.6x2	φ102	101.6x2	600.0	178.0	



Clamped Straight Strainer

DIN	Size								H	B
	DxK	SA	DxK	SMS	DxK	ISO/IDF	DxK			
DN25	28x50.5	1"	25.4x50.5	25	25.4x50.5	φ25	25.4x50.5	360.0	114.0	
DN32	34x50.5	1 1/4"	31.8x50.5	32	31.8x50.5	φ32	31.8x50.5	360.0	114.0	
DN40	40x50.5	1 1/2"	38.1x50.5	38	38.1x50.5	φ38	38.1x50.5	360.0	114.0	
DN50	52x64.0	2"	50.8x64.0	51	50.8x64.0	φ51	50.8x64.0	390.0	125.0	
DN65	70x91.0	2 1/2"	63.5x77.5	63	63.5x77.5	φ63	63.5x77.5	455.0	138.0	
DN80	85x106.0	3"	76.2x91.0	76	76.2x91.0	φ76	76.2x91.0	550.0	148.0	
DN100	104x119.0	4"	101.6x119.0	102	101.6x119.0	φ102	101.6x119.0	654.0	178.0	



Threaded Straight Strainer

DIN	Size					H	B
	D	G	SMS	D	G		
DN25	28.0	RD52x1/8	25	25.4	RD40x1/8	360.0	114.0
DN32	34.0	RD58x1/8	32	31.8	RD48x1/8	360.0	114.0
DN40	40.0	RD65x1/8	38	38.1	RD60x1/8	360.0	114.0
DN50	52.0	RD78x1/8	51	50.8	RD70x1/8	390.0	125.0
DN65	70.0	RD95x1/8	63	63.5	RD85x1/8	455.0	138.0
DN80	85.0	RD110x1/4	76	76.2	RD98x1/8	550.0	148.0
DN100	104.0	RD130x1/4	102	101.6	RD125x1/4	654.0	178.0

F-2

F

Sanitary Strainer



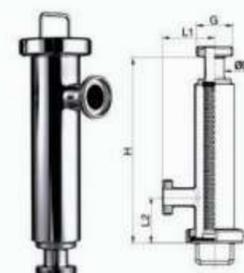
Welded Angle-Type Strainer

DIN	Size								H	B	L1	L2
	DxT	SA	DxT	SMS	DxT	ISO/IDF	DxT					
DN25	28x1.5	1"	25.4x1.65	25	25.4x1.5	φ25	25.4x1.5	345.0	114.0	76.0	95.0	
DN32	34x1.5	1 1/4"	31.8x1.65	32	31.8x1.5	φ32	31.8x1.5	345.0	114.0	76.0	95.0	
DN40	40x1.5	1 1/2"	38.1x1.65	38	38.1x1.5	φ38	38.1x1.5	345.0	114.0	76.0	95.0	
DN50	52x1.5	2"	50.8x1.65	51	50.8x1.5	φ51	50.8x1.5	375.0	125.0	89.0	110.0	
DN65	70x2	2 1/2"	63.5x1.65	63	63.5x2	φ63	63.5x2	440.0	138.0	102.0	125.0	
DN80	85x2	3"	76.2x1.65	76	76.2x2	φ76	76.2x2	575.0	148.0	114.0	145.0	
DN100	104x2	4"	101.6x2.1	102	101.6x2	φ102	101.6x2	640.0	178.0	140.0	165.0	



Clamped Angle-Type Strainer

DIN	Size								H	B	L1	L2
	DxK	SA	DxK	SMS	DxK	ISO/IDF	DxK					
DN25	28x50.5	1"	25.4x50.5	25	25.4x50.5	φ25	25.4x50.5	360.0	114.0	95.0	95.0	
DN32	34x50.5	1 1/4"	31.8x50.5	32	31.8x50.5	φ32	31.8x50.5	360.0	114.0	95.0	95.0	
DN40	40x50.5	1 1/2"	38.1x50.5	38	38.1x50.5	φ38	38.1x50.5	360.0	114.0	95.0	95.0	
DN50	52x64.0	2"	50.8x64.0	51	50.8x64.0	φ51	50.8x64.0	390.0	125.0	109.0	110.0	
DN65	70x91.0	2 1/2"	63.5x77.5	63	63.5x77.5	φ63	63.5x77.5	460.0	138.0	125.0	125.0	
DN80	85x106.0	3"	76.2x91.0	76	76.2x91.0	φ76	76.2x91.0	530.0	148.0	134.0	145.0	
DN100	104x119.0	4"	101.6x119.0	102	101.6x119.0	φ102	101.6x119.0	655.0	178.0	160.0	165.0	



Threaded Angle-Type Strainer

DIN	Size					H	B	L1	L2
	D	G	SMS	D	G				
DN25	28.0	RD52x1/8	25	25.4	RD40x1/8	360.0	114.0	95.0	95.0
DN32	34.0	RD58x1/8	32	31.8	RD48x1/8	360.0	114.0	95.0	95.0
DN40	40.0	RD65x1/8	38	38.1	RD60x1/8	360.0	114.0	95.0	95.0
DN50	52.0	RD78x1/8	51	50.8	RD70x1/8	390.0	125.0	109.0	110.0
DN65	70.0	RD95x1/8	63	63.5	RD85x1/8	460.0	138.0	125.0	125.0
DN80	85.0	RD110x1/4	76	76.2	RD98x1/8	530.0	148.0	134.0	145.0
DN100	104.0	RD130x1/4	102	101.6	RD125x1/4	655.0	178.0	160.0	165.0

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F

Sanitary Strainer



Welded Y-type Strainer

DIN	D _v T	SA	Size			ISO/IDF	D _v T	H	L1
			D _v T	SMS	D _v T				
DN25	28x1.5	1"	25.4x1.65	25	25.4x1.5	±25	25.4x1.5	120.0	115.0
DN32	34x1.5	1 1/4"	31.8x1.65	32	31.8x1.5	±32	31.8x1.5	150.0	140.0
DN40	40x1.5	1 1/2"	38.1x1.65	38	38.1x1.5	±38	38.1x1.5	170.0	160.0
DN50	52x1.5	2"	50.8x1.65	51	50.8x1.5	±51	50.8x1.5	190.0	182.0
DN65	70x2	2 1/2"	63.5x1.65	63	63.5x2	±63	63.5x2	235.0	245.0
DN80	85x2	3"	76.2x1.65	76	76.2x2	±76	76.2x2	260.0	285.0
DN100	104x2	4"	101.6x2.1	102	101.6x2	±102	101.6x2	345.0	345.0



Clamped Y-type Strainer

DIN	D _v K	SA	Size			ISO/IDF	D _v K	H	L1
			D _v K	SMS	D _v K				
DN25	28x50.5	1"	25.4x50.5	25	25.4x50.5	±25	25.4x50.5	145.0	95.0
DN32	34x50.5	1 1/4"	31.8x50.5	32	31.8x50.5	±32	31.8x50.5	165.0	110.0
DN40	40x50.5	1 1/2"	38.1x50.5	38	38.1x50.5	±38	38.1x50.5	180.0	120.0
DN50	52x64.0	2"	50.8x64.0	51	50.8x64.0	±51	50.8x64.0	220.0	140.0
DN65	70x91.0	2 1/2"	63.5x77.5	63	63.5x77.5	±63	63.5x77.5	280.0	175.0
DN80	85x108.0	3"	76.2x91.0	76	76.2x91.0	±76	76.2x91.0	350.0	195.0
DN100	104x119.0	4"	101.6x119.0	102	101.6x119.0	±102	101.6x119.0	500.0	260.0



Threaded Y-type Strainer

DIN	D	G	Size			H	L1
			SMS	D	G		
DN25	28.0	RD52x1/6	25	25.4	RD40x1/6	145.0	95.0
DN32	34.0	RD58x1/6	32	31.8	RD48x1/6	165.0	110.0
DN40	40.0	RD65x1/6	38	38.1	RD60x1/6	180.0	120.0
DN50	52.0	RD78x1/6	51	50.8	RD70x1/6	220.0	140.0
DN65	70.0	RD95x1/6	63	63.5	RD85x1/6	280.0	175.0
DN80	85.0	RD110x1/4	76	76.2	RD98x1/6	350.0	195.0
DN100	104.0	RD130x1/4	102	101.6	RD125x1/4	500.0	260.0

F-4

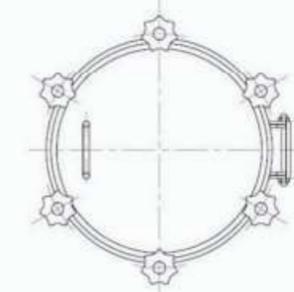
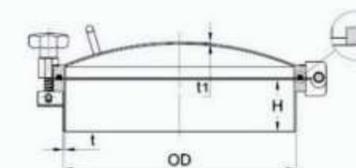
G

Sanitary Manhole Cover



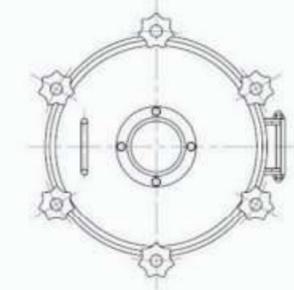
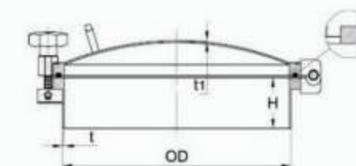
Round Outward Manhole With Pressure

Size	OD mm	t mm	H mm	t1 mm	Handwheel-Num	Pres (Bar)
200	206	3	100	3	3	1-3
300	306	3	100	3	4	1-3
350	356	3	100	3	4	1-3
400	406	3	100	3	5	1-3
430	436	3	100	3	6	1-3
450	456	3	100	3	6	1-3
500	506	3	100	3	8	1-3
600	606	3	100	4	10	1-3



Round Outward Manhole With Sight Glass

Size	OD mm	t mm	H mm	t1 mm	Sight Glass	Pres (Bar)
200	206	3	100	3	DN80	1-3
300	306	3	100	3	DN80	1-3
350	356	3	100	3	DN80	1-3
400	406	3	100	3	DN80	1-3
430	436	3	100	3	DN80	1-3
450	456	3	100	3	DN80	1-3
500	506	4	100	3	DN100	1-3
600	606	4	100	4	DN100	1-3

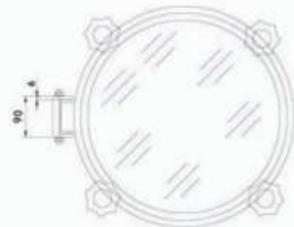
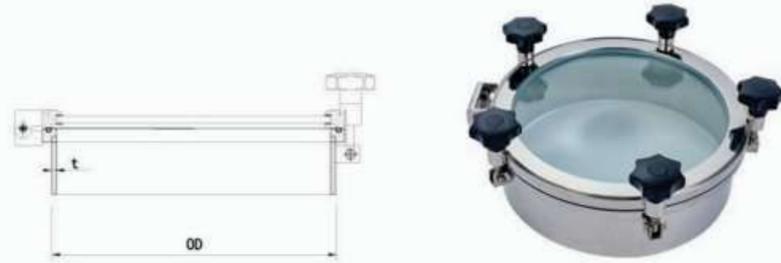


G-1



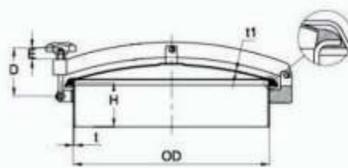
G

Sanitary Manhole Cover



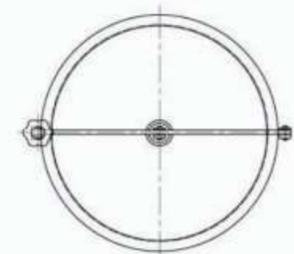
Round Outward Manhole

Size	OD mm	t mm	H mm	t1 mm	Handwheel-Num	Pres (Bar)
300	306	3	100	8	4	1-3
350	356	3	100	8	4	1-3
400	406	3	100	8	5	1-3
450	456	3	100	8	6	1-3
500	506	3	100	10	8	1-3
600	608	4	100	12	10	1-3



Round Outward Manhole

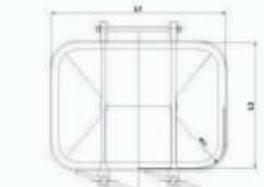
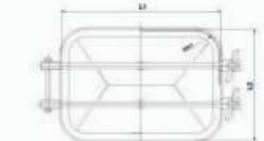
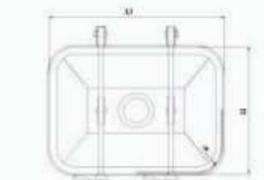
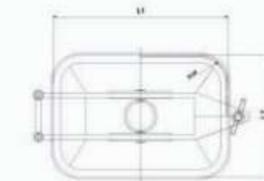
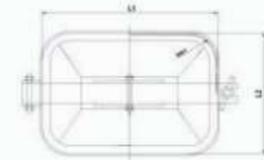
Size	OD mm	t mm	H mm	t1 mm	Pres (Bar)
200	200	2.5	100	2	0-0.1
219	219	2.5	100	2	0-0.1
300	300	2.5	100	2	0-0.1
350	350	2.5	100	2	0-0.1
400	400	3	100	2.5	0-0.1
430	430	3	100	2.5	0-0.1
450	450	3	100	2.5	0-0.1
500	500	3	100	2.5	0-0.1
600	600	4	100	3	0-0.1
420x300(Oval)	420x300	3	100	2.5	0-0.1



G-2

G

Sanitary Manhole Cover



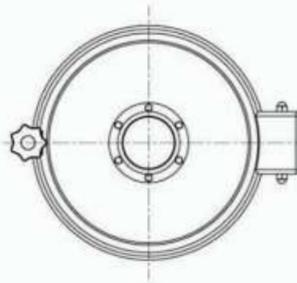
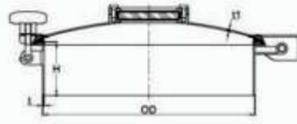
Rectangular Manhole With Two Intersectant Arms

Size	OD mm L1*L2	t mm	H mm	t1 mm	Pres (Bar)
245*190	235*185	4	60	1.5	1-3
250*150	238*138	5	60	2	1-3
290*230	280*220	5	60	2	1-3
450*350	430*330	6	65	2	1-3
450*350	435*335	8	65	2	1-3
565*430	555*420	8	80	3	1-3
720*520	700*500	12	100	3	1-3

G-3

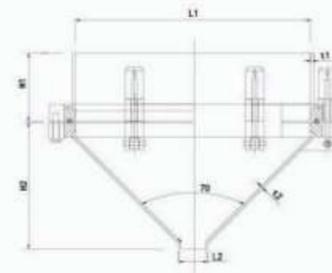
G

Sanitary Manhole Cover



Round Manhole With Sight Glass

Size	OD mm	t mm	H mm	t1 mm	Sight Glass	Pres (Bar)
350	355	2.5	100	2.5	DN80	0-0.1
400	406	3	100	3	DN100	0-0.1
450	456	3	100	3	DN150	0-0.1
500	506	3	100	3	DN200	0-0.1
600	606	3	100	3	DN400/500	0-0.1



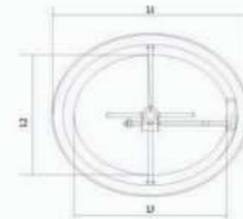
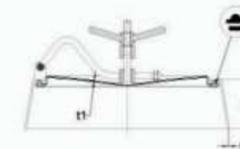
Rectangular Manhole With Two Intersectant Arms

Size	OD mm L1	OD mm L2	t mm	t1 mm	H mm	t1 mm	Pres (Bar)
DN450	450	50.8	6	4	160	318	1-4
DN450	450	102	6	4	160	284	1-4

G-4

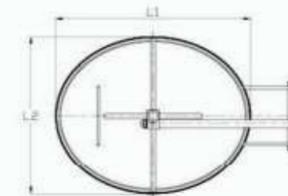
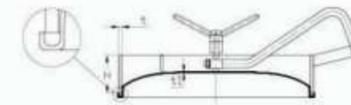
G

Sanitary Manhole Cover



Oval Inward Manhole with Bevel Edge

Size L1	OD mm L1/L2	t mm	H mm	t1 mm	Pres (Bar)
445*345	550*450	4	80	5	1-3
445*345	565*465	4	100	5	1-3
445*345	580*480	4	133	5	1-3



Oval Inward Manhole

Size	OD mm L1/L2	t mm	H mm	t1 mm	Pres (Bar)
440*340	440*340	8	75	2	1-3
450*350	450*350	8	75	3	1-3
526*426	526*426	10	75	3	1-3
530*430	530*430	12	75	3	1-3
635*525	635*525	12	80	3.5	1-3

G-5



H

H

Sanitary Pneumatic/Manual Butterfly Valve (RD)



Work Principle:

This kind of valve can be handled by manual an electric actuator, and also can be handled by a pneumatic actuator.

Electric actuator or pneumatic actuator covert the axial movement of piston to be 90° rotation of valve shaft. So that the valve can be open or close to achieve the requirement of control and open/close for the pipeline system. They have three type of actuator : normally open (NO) , normally closed (NC), air/ air (A/A), or close four position,also achieves control of medium flow purpose.

Muti-position handle regulates the valve by 15 7in its open or close 12 seats achiening control of medium flow purpose:

Pulling handle regulates the valve through four multi-function positioning, in its open

Application:

The series of this valve are sanitary pneumatic or manual butterfly valves, which are widely used in stainless steel pipeline system to control and regulate medium flow.

Material:

steel parts: stainless steel 304 ,
stainless steel 316L.
Seal: silicone (VMQ)
fluoroelastomer (FPM), EPDM



H-1

H-2



H

Technical Data			
Metal Material	Contact with the product components	304 / 316L (1.4301 / 1.4404) Forging	Can provide material inspection report
	Material No contact with the product components	304 / 202 (1.4301 / 202)	
Sealing material	Standard	VMQ	Adopt import sealing materials, which all meet The FDA 117.2600
	Option	EPDM / (FPM)	
Pressure	Pressure of work	0-10bar	
	Control air pressure	5-8bar	
Temperature	Working temperature	VMQ:(-50 ~ +180°C) EPDM :(-20 ~ +135°C) FPM:(-30 ~ +230°C)	
	Sterilization temperature	150°C (MAX 20min)	
Surface treatment	Inside surface treatment	Ra ≥ 0.4-0.8 μm	
	Surface treatment	Ra ≥ 0.8-1.6 μm	
Connection	The diameter welding	Welding connection: DIN 11850-2 with 11850-1 / SMS / 3A / ISO Series etc	
	Connection mode: welding, Clamp, male and female, flange, etc		
Optional driven	Brainpower		
	Pneumatic control	Pneumatic head and fixed bracket	
Butterfly valve volume flow: flow through the butterfly valve per unit time of a cross-sectional area of the fluid volume		Volume flow: cubic meters / hour (m ³ / h) detailed technical data please refer to the (next page)	

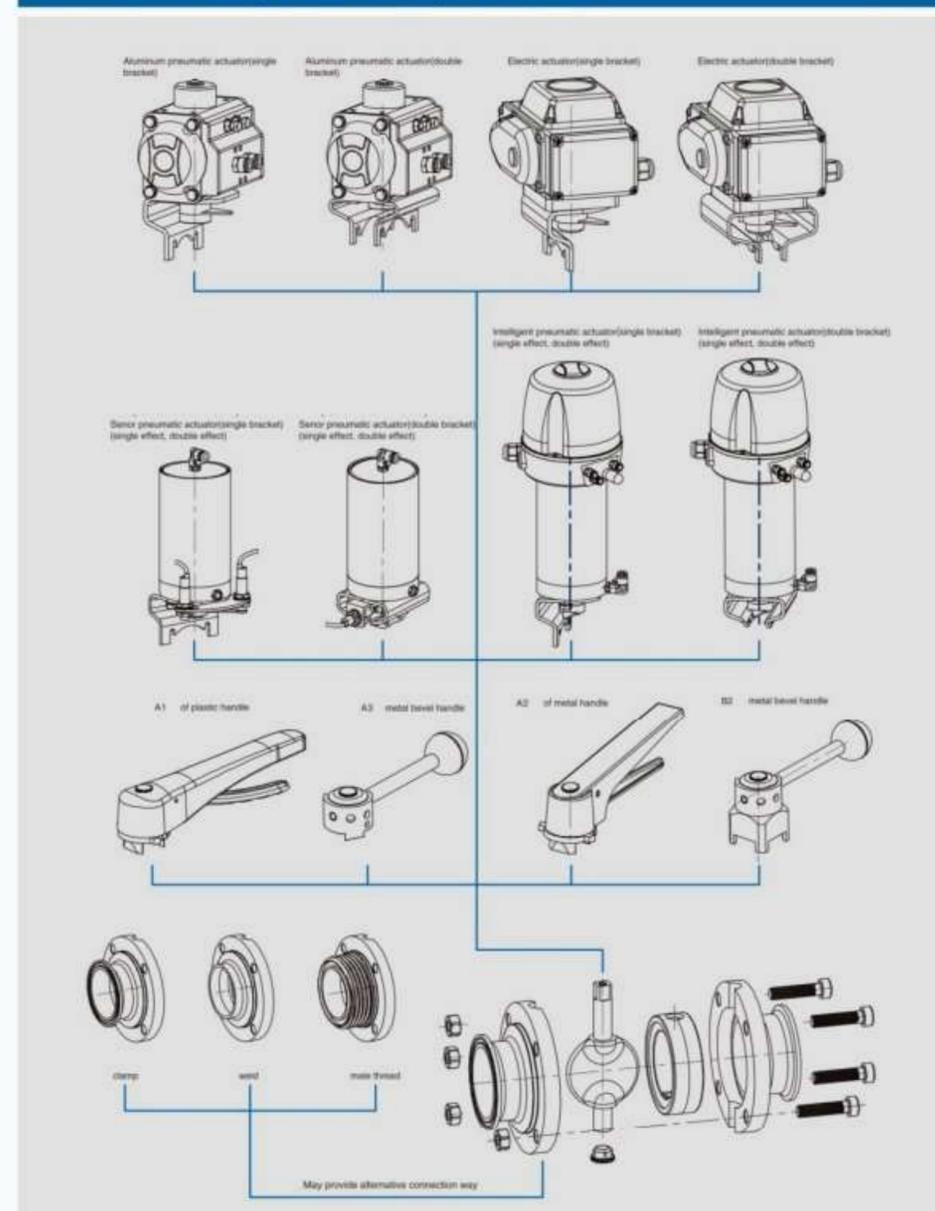
Connection Type



H-3

H

Different Ways Of Drive And Styles Of Handle

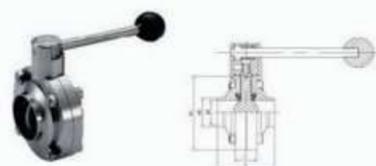


H-4



H

Sanitary Butterfly Valve



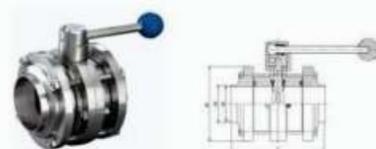
3A butterfly valve weld end with pull handle

Size	A	B	D	E	F
1"	22.1	25.4	79.0	48.0	22.0
1 1/2"	34.8	38.1	96.0	50.0	22.0
2"	47.5	50.8	100.0	52.0	22.0
2 1/2"	60.2	63.5	115.0	54.0	22.0
3"	72.2	76.2	128.0	54.0	22.0
4"	97.6	101.6	154.0	64.0	22.0
6"	148.4	152.4	220	86	24



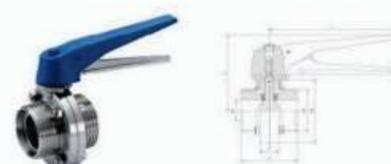
DIN butterfly valve weld end with pull handle

Size	A	B	D	E	F
25	25	28	79	48	22
32	31	34	86	50	22
40	37	40	90	50	22
50	49	52	106	52	22
65	66	70	124	56	22
80	81	85	139	58	22
100	100	104	159	64	24
125	125	129	190	80	24
150	150	154	220	86	24



DIN 3PC butterfly valve weld end with pull handle

Size	A	B	C	E
25	25	28	78	96
32	31	34	83	100
40	37	40	84	100
50	49	52	88	104
65	66	70	97	112
80	81	85	107	116
100	100	104	119	128



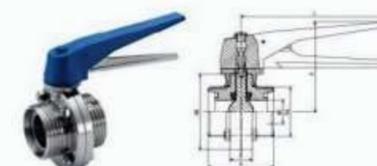
SMS butterfly valve thread end with gripper handle

Size	A	B	C	RD	E
1"	64	79	22.4	RD40X1/8"	22
1 1/2"	70	86	35	RD60X1/8"	22
2"	78	100	47.5	RD70X1/8"	22
2 1/2"	80	115	59.5	RD85X1/8"	22
3"	84	128	72.2	RD98X1/8"	22
4"	90	154	97.6	RD125X1/8"	22

H-5

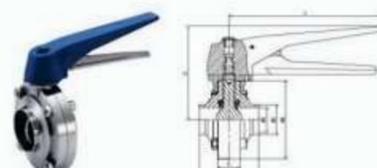
H

Sanitary Butterfly Valve



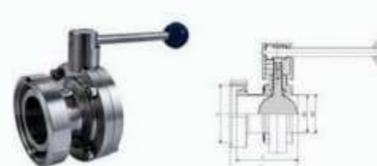
DIN butterfly valve thread end with gripper handle

Size	A	B	C	RD
25	66	79	25	RD52X1/8"
32	70	86	31	RD58X1/8"
40	74	90	37	RD65X1/8"
50	78	106	49	RD78X1/8"
65	80	124	66	RD95X1/8"
80	86	139	81	RD110X1/4"
100	108	159	100	RD130X1/4"
125	100	190	125	RD160X1/4"
150	110	220	150	RD190X1/4"



SMS butterfly valve weld end with gripper handle

Size	A	B	C	D	E	H	L
1"	48	79	25.4	21.4	22	92	146
1 1/2"	50	86	38	35	22	96	146
2"	52	100	51	48	22	103	146
2 1/2"	54	115	63.5	59.5	22	110	146
3"	54	128	76.2	72.2	22	126	175
4"	64	154	101.6	97.6	22	140	175



DIN butterfly valve weld/union with pull handle

Size	A	B	C	F	D
25	25	28	78	70	RD52X1/8"
32	31	34	83	75	RD58X1/8"
40	37	40	84	76	RD65X1/8"
50	49	52	88	80	RD78X1/8"
65	66	70	97	86	RD95X1/8"
80	81	85	107	96	RD110X1/4"
100	100	104	119	110	RD130X1/4"



DIN butterfly valve thread/nut with pull handle

Size	A	B	C
25	25	79	RD52X1/8"
32	31	86	RD58X1/8"
40	37	88	RD65X1/8"
50	49	92	RD78X1/8"
65	66	100	RD95X1/8"
80	81	110	RD110X1/4"
100	100	130	RD130X1/4"

H-6

H

Sanitary Butterfly Valve



90° Three way butterfly valve thread end

Size	A	RD	B	F	L
25	28	RD52X1/8"	107	50	186
32	34	RD58X1/8"	112	52	199
40	40	RD65X1/8"	119	57	212
50	52	RD78X1/8"	131	67	236
65	70	RD95X1/8"	146	78	264
80	85	RD110X1/4"	176	103	324
100	104	RD130X1/4"	196	110	360



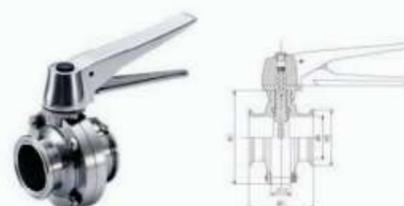
180° Three way butterfly valve thread end

Size	B	RD	E	A	L
25	79	RD52X1/8"	28	100	214
32	87	RD58X1/8"	34	104	224
40	93	RD65X1/8"	40	114	238
50	105	RD78X1/8"	52	134	262
65	118	RD95X1/8"	70	156	292
80	148	RD110X1/4"	85	206	352
100	150	RD130X1/4"	104	206	378



Three way butterfly valve thread end

Size	A	RD	L	L1
25	28	RD52X1/8"	214	107
32	34	RD58X1/8"	224	112
40	40	RD65X1/8"	238	119
50	52	RD78X1/8"	262	131
65	70	RD95X1/8"	292	146
80	85	RD110X1/4"	352	176
100	104	RD130X1/4"	378	189



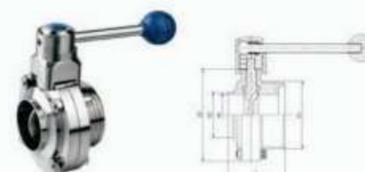
3A butterfly valve clamp end with gripper handle

Size	A	B	C	D
1"	22.4	50.5	79.0	68
1 1/2"	35.0	50.5	86.0	72
2"	48.0	64.0	100.0	76
2 1/2"	59.5	77.5	115.0	84
3"	72.2	91.0	128.0	84
4"	97.6	110.0	154.0	92

H-7

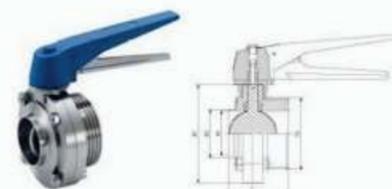
H

Sanitary Butterfly Valve



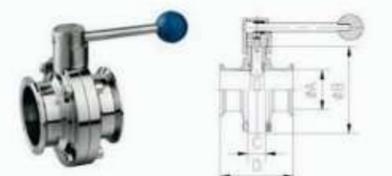
DIN butterfly valve weld/thread end with gripper handle

Size	A	B	D	E	RD
25	25	28	78	57	RD52X1/8"
32	31	34	86	60	RD58X1/8"
40	37	40	90	62	RD65X1/8"
50	49	52	106	64	RD78X1/8"
65	66	70	124	68	RD95X1/8"
80	81	85	135	72	RD110X1/4"
100	100	104	159	86	RD130X1/4"



SMS butterfly valve weld/thread end with gripper handle

Size	A	B	D	E	RD
1"	22.4	25.4	79	56	RD40X1/8"
1 1/2"	35.0	38.0	86	60	RD60X1/8"
2"	48.0	51.0	100	65	RD70X1/8"
2 1/2"	59.5	63.5	115	67	RD85X1/8"
3"	72.2	76.2	128	69	RD98X1/8"
4"	97.6	101.6	154	77	RD125X1/8"

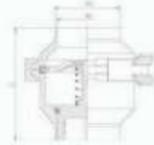


3A butterfly valve clamp end with pull handle

Size	A	B	C	D
1"	22.1	78.0	22.0	89.0
1 1/2"	34.8	78.0	22.0	89.0
2"	47.5	98.5	22.0	94.0
2 1/2"	60.2	117.5	22.0	95.0
3"	72.2	132.0	24.0	103.0
4"	97.6	170.0	24.0	121.0

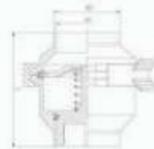
H-8

Sanitary Check Valve



DIN check valve weld end

Size	A	B	C
25	25	28	74.5
32	31	34	76
40	37	40	76
50	49	52	88.5
65	66	70	102.5
80	81	85	116.5
100	100	104	109
125	129	125	113
150	150	154	123



SMS check valve weld end

Size	A	B	C
1"	22.4	25.4	73.5
1 1/2"	35.0	38.0	76.5
2"	48.0	51.0	88.5
2 1/2"	59.5	63.5	102.5
3"	72.2	76.2	101.5
4"	97.6	101.6	109.0



3A check valve clamp end

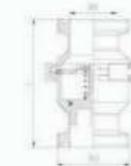
Size	A	B	D
1"	22.1	50.4	99
1 1/2"	34.8	50.4	102
2"	47.5	63.9	114
2 1/2"	60.2	77.4	128
3"	72.9	90.9	127
4"	97.4	118.9	141

Sanitary Check Valve



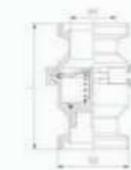
3A check valve weld end

Size	A	B	C
1"	22.1	25.4	73.5
1 1/2"	34.8	38.1	76.5
2"	47.5	50.8	88.5
2 1/2"	60.2	63.5	102.5
3"	72.9	76.2	101.5
4"	97.4	101.6	109.0



SMS check valve thread end

Size	A	L	RD
1"	22.4	109.5	RD40X1/6
1 1/2"	35.0	116.5	RD50X1/6
2"	48.0	128.5	RD70X1/6
2 1/2"	59.5	146.5	RD85X1/6
3"	72.2	149.5	RD98X1/6
4"	97.6	159.0	RD125X1/6



DIN check valve thread end

Size	A	L	RD
DN25	25	114.5	RD52X1/6
DN32	31	116.0	RD58X1/6
DN40	37	118.0	RD65X1/6
DN50	49	130.5	RD78X1/6
DN65	66	148.5	RD96X1/6
DN80	81	156.5	RD110X1/4
DN100	100	168.0	RD130X1/4



J

Sanitary Sight Glass



3A sight glass weld end

Size	A	B	C	D
1"	22.1	25.4	79.0	138
1 1/2"	34.8	38.1	86.0	139
2"	47.5	50.8	100.0	143
2 1/2"	60.2	63.5	115.0	143
3"	72.2	76.2	128.0	142
4"	97.6	101.6	154.0	149



DIN sight glass weld end

Size	A	B	C	D
25	25	28	79.0	136
32	31	34	86.0	138
40	37	40	90	138
50	49	52	106	140
65	66	70	124	144
80	81	85	139	146
100	100	104	159	152



SMS/3A sight glass clamp end

Size	A	B	C	D
1"	22.1	50.4	79	163.4
1 1/2"	34.8	50.4	86	164.4
2"	47.5	63.9	100	168.4
2 1/2"	60.2	77.4	115	168.4
3"	72.2	90.9	128	167.4
4"	97.6	118.9	154	1180.8



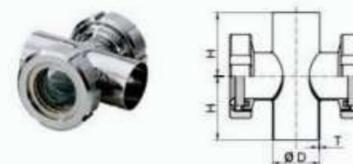
DIN sight glass thread end

Size	A	Rd	C	D
25	25	Rd52x1/8"	79	154
32	31	Rd58x1/8"	86	158
40	37	Rd65x1/8"	90	162
50	49	Rd78x1/8"	106	164
65	66	Rd95x1/8"	124	168
80	81	Rd110x1/4"	139	174
100	100	Rd130x1/4"	159	196

J-1

J

Sanitary Sight Glass



Sight Glass Cross Type

Size	H	D	T
DN25	50.0	28.0	1.5
DN32	55.0	34.0	1.5
DN40	60.0	40.0	1.5
DN50	70.0	52.0	1.5
DN65	80.0	70.0	2.0
DN80	90.0	85.0	2.0
DN100	100.0	104.0	2.0



Sight Glass Union Type

Size	H	B	D	T
DN25	35.0	63.0	28.0	1.5
DN32	38.0	70.0	34.0	1.5
DN40	40.0	78.0	40.0	1.5
DN50	42.0	92.0	52.0	1.5
DN65	47.0	112.0	70.0	2.0
DN80	52.0	127.0	85.0	2.0
DN100	62.0	148.0	104.0	2.0



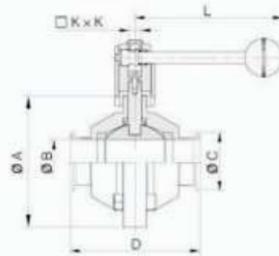
Sight Glass With Lamp

Size	H	B	D
DN80	90.0	127.0	87.0
DN100	100.0	148.0	106.0
DN125	90.0	178.0	132.0
DN150	96.0	210.0	157.0

J-2

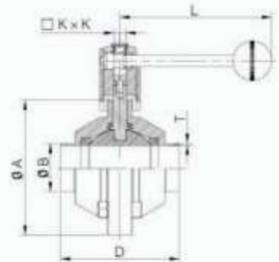
K

Sanitary Butterfly Ball Valve



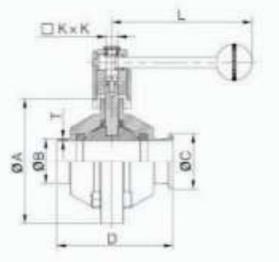
Clamped Butterfly-type Ball Valve

Size	A	B	C	D	KxK	L
DN20	86.0	19.0	34.0	80.0	10X10	136.0
DN25	92.0	25.0	50.5	87.0	10X10	136.0
DN32	106.0	31.0	50.5	96.0	10X10	136.0
DN40	115.0	37.0	50.5	105.0	10X10	136.0
DN50	131.0	49.0	64.0	112.4	10X10	136.0
DN65	160.0	66.0	91.0	138.0	10X10	136.0
DN80	186.0	91.0	106.0	169.0	10X10	163.0
DN100	220.0	100.0	119.0	194.0	10X10	163.0



Welded Butterfly-type Ball Valve

Size	A	B	D	KxK	L	T
DN20	86.0	22.0	60.0	10X10	136.0	1.5
DN25	92.0	29.0	67.0	10X10	136.0	1.5
DN32	106.0	34.0	78.0	10X10	136.0	1.5
DN40	115.0	40.0	85.0	10X10	136.0	1.5
DN50	131.0	52.0	92.4	10X10	136.0	1.5
DN65	160.0	70.0	118.0	10X10	136.0	2.0
DN80	186.0	85.0	148.0	10X10	163.0	2.0
DN100	220.0	104.0	174.0	10X10	163.0	2.0



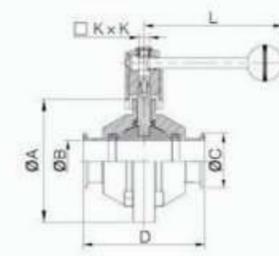
Welded / Clamped Butterfly-type Ball Valve

Size	A	B	C	D	KxK	L	T
DN20	86.0	22.0	34.0	70.0	10X10	136.0	1.5
DN25	92.0	28.0	50.5	77.0	10X10	136.0	1.5
DN32	106.0	34.0	50.5	88.0	10X10	136.0	1.5
DN40	115.0	40.0	50.5	95.0	10X10	136.0	1.5
DN50	131.0	52.0	64.0	102.4	10X10	136.0	1.5
DN65	160.0	70.0	91.0	128.0	10X10	136.0	2.0
DN80	186.0	85.0	106.0	158.0	10X10	163.0	2.0
DN100	220.0	104.0	119.0	184.0	10X10	163.0	2.0

K-1

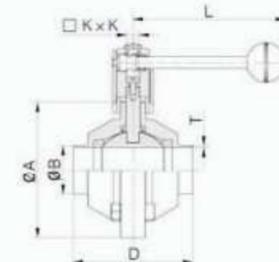
K

Sanitary Butterfly Ball Valve



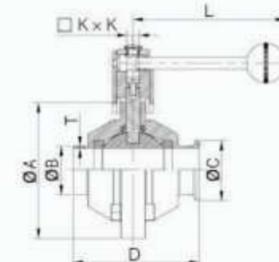
Clamped Butterfly-type Ball Valve

Size	A	B	C	D	KxK	L
3/4"	86.0	15.75	25.4	80.0	10X10	136.0
1"	92.0	22.1	50.5	87.0	10X10	136.0
1 1/4"	106.0	28.5	50.5	96.0	10X10	136.0
1 1/2"	115.0	34.8	50.5	105.0	10X10	136.0
2"	131.0	47.5	64.0	112.4	10X10	136.0
2 1/2"	160.0	60.2	77.5	138.0	10X10	136.0
3"	186.0	72.0	91.0	169.0	10X10	163.0
4"	220.0	97.4	119.0	194.0	10X10	163.0



Welded Butterfly-type Ball Valve

Size	A	B	D	KxK	L	T
3/4"	86.0	19.05	60.0	10X10	136.0	1.65
1"	92.0	25.4	67.0	10X10	136.0	1.65
1 1/4"	106.0	31.8	78.0	10X10	136.0	1.65
1 1/2"	115.0	38.1	85.0	10X10	136.0	1.65
2"	131.0	50.8	92.4	10X10	136.0	1.65
2 1/2"	160.0	63.5	118.0	10X10	136.0	1.65
3"	186.0	76.2	148.0	10X10	163.0	1.65
4"	220.0	101.6	174.0	10X10	163.0	2.1



Welded / Clamped Butterfly-type Ball Valve

Size	A	B	C	D	KxK	L	T
3/4"	86.0	19.05	25.4	70.0	10X10	136.0	1.65
1"	92.0	25.4	50.5	77.0	10X10	136.0	1.65
1 1/4"	106.0	31.8	50.5	88.0	10X10	136.0	1.65
1 1/2"	115.0	38.1	50.5	95.0	10X10	136.0	1.65
2"	131.0	50.8	64.0	102.4	10X10	136.0	1.65
2 1/2"	160.0	63.5	77.5	128.0	10X10	136.0	1.65
3"	186.0	76.2	91.0	158.0	10X10	163.0	1.65
4"	220.0	101.6	119.0	184.0	10X10	163.0	2.1

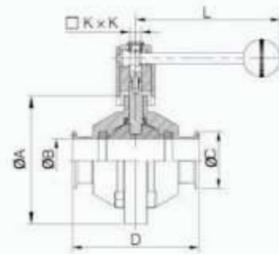
K-2

K

K

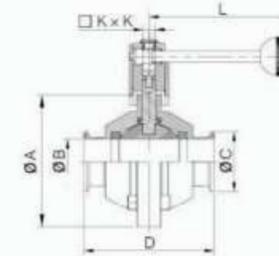
Sanitary Butterfly Ball Valve

Sanitary Butterfly Ball Valve



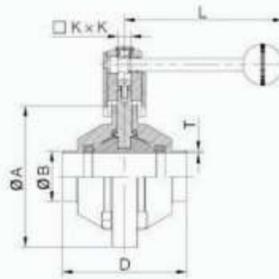
Clamped Butterfly-type Ball Valve

Size	A	B	C	D	KxK	L
19	86.0	16.1	50.5	80.0	10X10	136.0
25	92.0	22.4	50.5	87.0	10X10	136.0
32	106.0	28.8	50.5	98.0	10X10	136.0
38	115.0	35.1	50.5	105.0	10X10	136.0
51	131.0	47.8	64.0	112.4	10X10	136.0
63	160.0	59.5	77.5	138.0	10X10	136.0
76	186.0	72.2	91.0	168.0	10X10	163.0
102	220.0	97.6	119.0	194.0	10X10	163.0



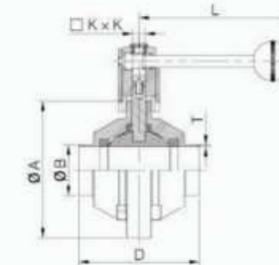
Clamped Butterfly-type Ball Valve

Size	A	B	C	D	KxK	L
19	86.0	16.1	25.4	80.0	10X10	136.0
25	92.0	22.4	50.5	87.0	10X10	136.0
32	106.0	28.8	50.5	98.0	10X10	136.0
38	115.0	35.1	50.5	105.0	10X10	136.0
51	131.0	47.8	64.0	112.4	10X10	136.0
63	160.0	59.5	77.5	138.0	10X10	136.0
76	186.0	72.2	91.0	168.0	10X10	163.0
102	220.0	97.6	119.0	194.0	10X10	163.0



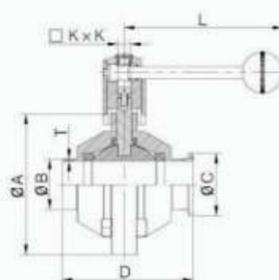
Welded Butterfly-type Ball Valve

Size	A	B	D	KxK	L	T
19	86.0	19.1	60.0	10X10	136.0	1.5
25	92.0	25.4	67.0	10X10	136.0	1.5
32	106.0	31.8	78.0	10X10	136.0	1.5
38	115.0	38.1	85.0	10X10	136.0	1.5
51	131.0	50.8	92.4	10X10	136.0	1.5
63	160.0	63.5	118.0	10X10	136.0	2.0
76	186.0	76.2	148.0	10X10	163.0	2.0
102	220.0	101.6	174.0	10X10	163.0	2.0



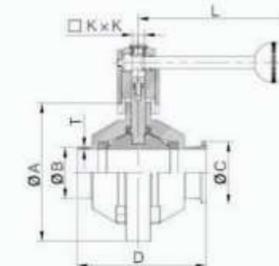
Welded Butterfly-type Ball Valve

Size	A	B	D	KxK	L	T
19	86.0	19.1	60.0	10X10	136.0	1.5
25	92.0	25.4	67.0	10X10	136.0	1.5
32	106.0	31.8	78.0	10X10	136.0	1.5
38	115.0	38.1	85.0	10X10	136.0	1.5
51	131.0	50.8	92.4	10X10	136.0	1.5
63	160.0	63.5	118.0	10X10	136.0	2.0
76	186.0	76.2	148.0	10X10	163.0	2.0
102	220.0	101.6	174.0	10X10	163.0	2.0



Welded / Clamped Butterfly-type Ball Valve

Size	A	B	C	D	KxK	L	T
19	86.0	19.1	50.5	70.0	10X10	136.0	1.5
25	92.0	25.4	50.5	77.0	10X10	136.0	1.5
32	106.0	31.8	50.5	88.0	10X10	136.0	1.5
38	115.0	38.1	50.5	95.0	10X10	136.0	1.5
51	131.0	50.8	64.0	102.4	10X10	136.0	1.5
63	160.0	63.5	77.5	128.0	10X10	136.0	2.0
76	186.0	76.2	91.0	158.0	10X10	163.0	2.0
102	220.0	101.6	119.0	184.0	10X10	163.0	2.0



Welded / Clamped Butterfly-type Ball Valve

Size	A	B	C	D	KxK	L	T
19	86.0	19.1	25.4	70.0	10X10	136.0	1.5
25	92.0	25.4	50.5	77.0	10X10	136.0	1.5
32	106.0	31.8	50.5	88.0	10X10	136.0	1.5
38	115.0	38.1	50.5	95.0	10X10	136.0	1.5
51	131.0	50.8	64.0	102.4	10X10	136.0	1.5
63	160.0	63.5	77.5	128.0	10X10	136.0	2.0
76	186.0	76.2	91.0	158.0	10X10	163.0	2.0
102	220.0	101.6	119.0	184.0	10X10	163.0	2.0

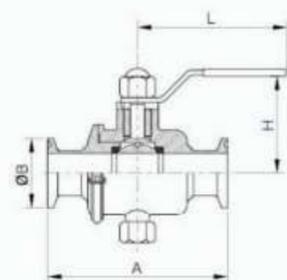
K-3

K-4



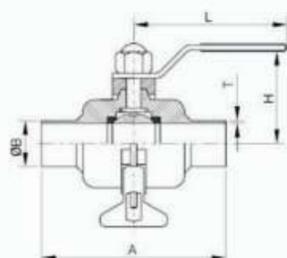
K

Sanitary Straight Ball Valve



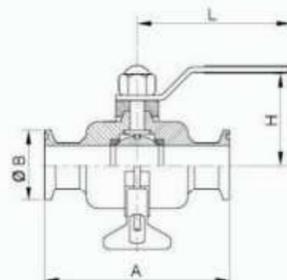
Clamped Portable Ball Valve

Size	A	B	H	L
DN15	95.0	50.5	60.0	125.0
DN20	95.0	50.5	60.0	125.0
DN25	120.0	50.5	60.0	125.0
DN32	130.0	50.5	65.0	140.0
DN40	140.0	50.5	70.0	150.0
DN50	164.0	64.0	70.0	160.0
DN65	190.0	77.5	90.0	180.0



Welded Non-retention Ball Valve

Size	A	B	H	L	T
DN15	90.0	18.0	55.0	125.0	1.5
DN20	100.0	22.0	55.0	125.0	1.5
DN25	110.0	28.0	55.0	125.0	1.5
DN32	120.0	34.0	55.0	140.0	1.5
DN40	140.0	40.0	65.0	150.0	1.5
DN50	164.0	52.0	75.0	160.0	1.5
DN65	170.0	70.0	85.0	180.0	2.0



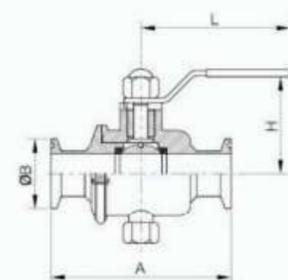
Welded / Clamped Butterfly-type Ball Valve

Size	A	B	H	L
DN15	90.0	50.5	55.0	125.0
DN20	100.0	50.5	55.0	125.0
DN25	110.0	50.5	55.0	125.0
DN32	120.0	50.5	55.0	140.0
DN40	140.0	50.5	65.0	150.0
DN50	164.0	64.0	75.0	160.0
DN65	170.0	77.5	85.0	180.0

K-5

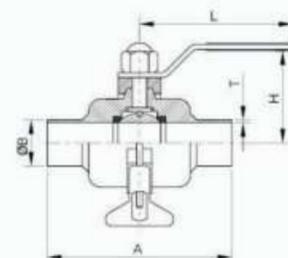
K

Sanitary Straight Ball Valve



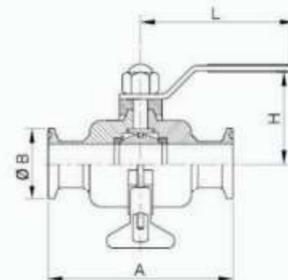
Clamped Portable Ball Valve

Size	A	B	H	L
3/4"	95.0	25.4	55.0	125.0
1"	120.0	50.5	55.0	125.0
1 1/4"	130.0	50.5	55.0	140.0
1 1/2"	140.0	50.5	65.0	150.0
2"	164.0	64.0	75.0	160.0
2 1/2"	190.0	77.5	85.0	180.0



Welded Non-retention Ball Valve

Size	A	B	H	L	T
3/4"	90.0	19.05	55.0	125.0	1.65
1"	100.0	25.4	55.0	125.0	1.65
1 1/4"	110.0	31.8	55.0	140.0	1.65
1 1/2"	120.0	38.1	65.0	150.0	1.65
2"	140.0	50.8	75.0	160.0	1.65
2 1/4"	164.0	57.0	85.0	180.0	1.65
2 1/2"	170.0	63.5	85.0	180.0	1.65



Clamped Non-retention Ball Valve

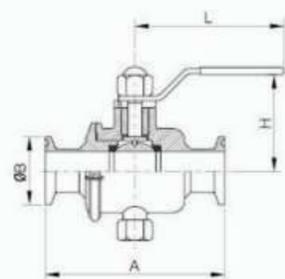
Size	A	B	H	L
3/4"	90.0	25.4	55.0	125.0
1"	100.0	50.5	55.0	125.0
1 1/4"	110.0	50.5	55.0	140.0
1 1/2"	120.0	50.5	65.0	150.0
2"	140.0	64.0	75.0	160.0
2 1/4"	164.0	77.5	85.0	180.0
2 1/2"	170.0	77.5	85.0	180.0

K-6



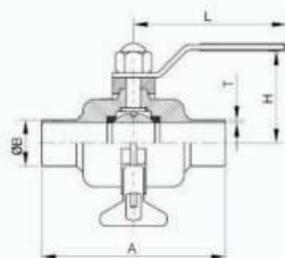
K

Sanitary Straight Ball Valve



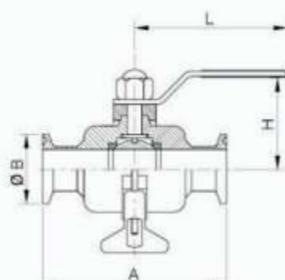
Clamped Portable Ball Valve

Size	A	B	H	L
19	95.0	25.4	55.0	125.0
25	120.0	50.5	55.0	125.0
32	130.0	50.5	55.0	140.0
38	140.0	50.5	65.0	150.0
51	164.0	64.0	75.0	180.0
63	190.0	77.5	85.0	190.0



Welded Non-retention Ball Valve

Size	A	B	H	L	T
19	90.0	19.05	55.0	125.0	1.5
25	100.0	25.4	55.0	125.0	1.5
32	110.0	31.8	55.0	140.0	1.5
38	120.0	38.1	65.0	150.0	1.5
51	140.0	50.8	75.0	160.0	1.5
57	164.0	57.0	85.0	180.0	2.0
63	170.0	63.5	85.0	180.0	2.0



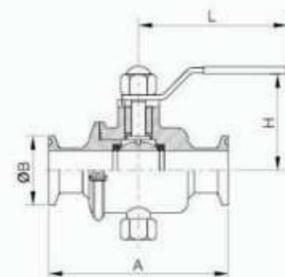
Clamped Non-retention Ball Valve

Size	A	B	H	L
19	90.0	25.4	55.0	125.0
25	100.0	50.5	55.0	125.0
32	110.0	50.5	55.0	140.0
38	120.0	50.5	65.0	150.0
51	140.0	64.0	75.0	160.0
57	164.0	77.5	85.0	180.0
63	170.0	77.5	85.0	180.0

K-7

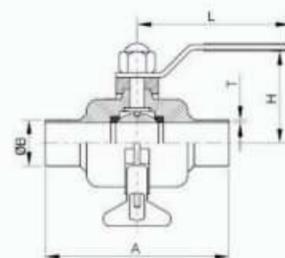
K

Sanitary Straight Ball Valve



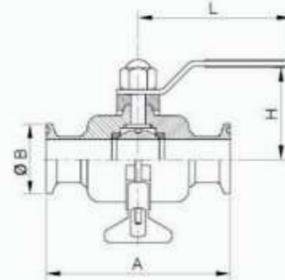
Clamped Portable Ball Valve

Size	A	B	H	L
19	105.0	25.4	55.0	125.0
25	125.0	50.5	55.0	140.0
32	132.0	50.5	65.0	150.0
38	140.0	50.5	65.0	160.0
51	159.0	64.0	85.0	180.0
63	190.0	77.5	85.0	200.0



Welded Non-retention Ball Valve

Size	A	B	H	L	T
19	90.0	19.05	65.0	105.0	1.5
25	100.0	25.4	70.0	105.0	1.5
32	120.0	32.0	80.0	130.0	1.5
38	140.0	38.1	80.0	150.0	1.5
51	164.0	50.8	85.0	160.0	1.5
57	170.0	57.0	110.0	180.0	2.0
63	180.0	63.5	110.0	180.0	2.0



Clamped Non-retention Ball Valve

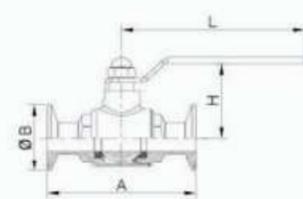
Size	A	B	H	L
19	90.0	25.4	65.0	105.0
25	100.0	50.5	70.0	105.0
32	120.0	50.5	80.0	130.0
38	140.0	50.5	80.0	150.0
51	164.0	64.0	85.0	160.0
57	170.0	77.5	110.0	180.0
63	180.0	77.5	110.0	180.0

K-8



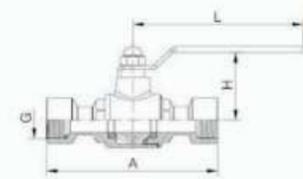
K

Sanitary Straight Ball Valve



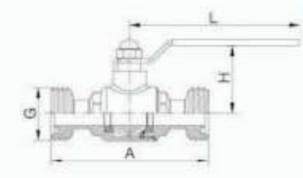
Clamped Straight Ball Valve

Size	A	B	H	L
DN20	120.0	50.5	55.0	125.0
DN25	130.0	50.5	55.0	125.0
DN32	140.0	50.5	55.0	140.0
DN40	164.0	64.0	65.0	150.0
DN50	190.0	77.5	75.0	160.0
DN65	210.0	91.0	85.0	180.0
DN80	230.0	106.0	100.0	260.0
DN100	260.0	119.0	120.0	350.0



Femaled Straight Ball Valve

Size	A	G	H	L
DN20	120.0	G3/4-14	55.0	125.0
DN25	130.0	G1-11	55.0	125.0
DN32	140.0	G1 1/4-11	55.0	140.0
DN40	164.0	G1 1/2-11	65.0	150.0
DN50	190.0	G2-11	75.0	160.0
DN65	210.0	G2 1/2-11	85.0	180.0
DN80	230.0	G3-11	100.0	260.0
DN100	260.0	G4-11	120.0	350.0



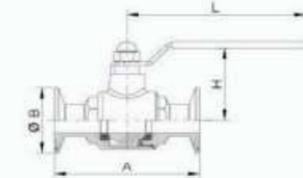
Maled Straight Ball Valve

Size	A	G	H	L
DN20	120.0	RD44x1/6	55.0	125.0
DN25	130.0	RD52x1/6	55.0	125.0
DN32	140.0	RD58x1/6	55.0	140.0
DN40	164.0	RD65x1/6	65.0	150.0
DN50	190.0	RD78x1/6	75.0	160.0
DN65	210.0	RD95x1/6	85.0	180.0
DN80	230.0	RD110x1/4	100.0	260.0
DN100	260.0	RD138x1/4	120.0	350.0

K-9

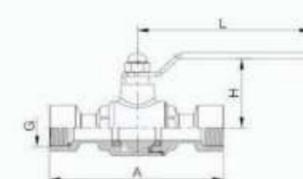
K

Sanitary Straight Ball Valve



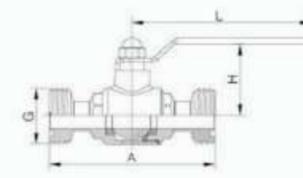
Clamped Straight Ball Valve

Size	A	B	H	L
19	95.0	50.5	55.0	125.0
25	120.0	50.5	55.0	125.0
32	130.0	50.5	55.0	140.0
38	140.0	50.5	65.0	150.0
51	164.0	64.0	75.0	160.0
63	190.0	77.5	85.0	180.0
76	210.0	91.0	100.0	260.0
101.6	260.0	119.0	120.0	350.0



Femaled Straight Ball Valve

Size	A	G	H	L
19	120.0	G3/4-14	55.0	125.0
25	130.0	G1-11	55.0	125.0
32	140.0	G1 1/4-11	55.0	140.0
38	164.0	G1 1/2-11	65.0	150.0
51	190.0	G2-11	75.0	160.0
63	210.0	G2 1/2-11	85.0	180.0
76	230.0	G3-11	100.0	260.0
101.6	260.0	G4-11	120.0	350.0



Maled Straight Ball Valve

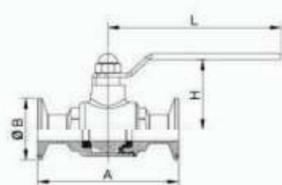
Size	A	G	H	L
19	95.0	RD36x1/8	55.0	125.0
25	120.0	RD40x1/6	55.0	125.0
32	130.0	RD48x1/6	55.0	140.0
38	140.0	RD60x1/6	65.0	150.0
51	164.0	RD70x1/6	75.0	160.0
63	190.0	RD85x1/6	85.0	180.0
76	210.0	RD98x1/6	100.0	260.0
101.6	260.0	RD125x1/4	120.0	350.0

K-10



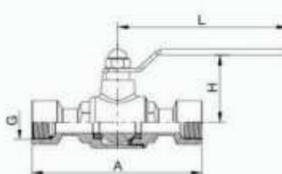
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Sanitary Straight Ball Valve



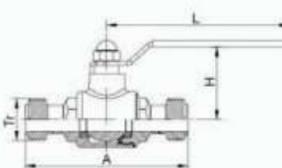
Clamped Straight Ball Valve

Size	A	B	H	L
19	95.0	50.5	55.0	125.0
25	120.0	50.5	55.0	125.0
32	130.0	50.5	55.0	140.0
38	140.0	60.5	65.0	160.0
51	164.0	64.0	75.0	160.0
63	190.0	77.5	85.0	180.0
76	210.0	91.0	100.0	260.0
102	260.0	119.0	120.0	350.0



Female Straight Ball Valve

Size	A	G	H	L
19	120.0	G3/4-14	55.0	125.0
25	130.0	G1-11	55.0	125.0
32	140.0	G1 1/4-11	55.0	140.0
38	164.0	G1 1/2-11	65.0	150.0
51	190.0	G2-11	75.0	160.0
63	210.0	G2 1/2-11	85.0	180.0
76	230.0	G3-11	100.0	260.0
102	260.0	G4-11	120.0	350.0



Male Straight Ball Valve

Size	A	T _r	H	L
19	95.0	36.5X3	45.0	125.0
25	120.0	40X3	55.0	125.0
32	140.0	46X3	55.0	140.0
38	165.0	55X3	75.0	150.0
51	190.0	65X4	85.0	160.0
63	210.0	80X4	100.0	180.0
76	220.0	90X4	110.0	260.0
102	260.0	100X4	120.0	350.0

K-11

K

Sanitary Stop/Reversing Valve



Application:

The series of valve is major let the medium reach the purpose of reversing or end stop, because the goods tightness and cleanability, they are extensively use to different sanitary industry areas.

Material:

Steel parts: stainless steel 304, stainless steel 316L.
Seal: TFE, O type seal ring
Up diaphragm: NBR diaphragm and standard diaphragm
Down diaphragm: PTFE, EPDM rubber and standard diaphragm
O type ring: NBR diaphragm and standard diaphragm.
(Remark: when the temperature beyond 95 degree, the diaphragm need choose PTFE, O type ring choose EPDM.)

Working Principle:

The series of pneumatic cut-off reversing valve is change the energy which creative by compressed air to be the mechanical energy, the mechanical energy can drive the valve rod axial moving, thus move the different situation of Seal elements, which can control the switch for inlet of pipeline, finally realise the purpose of medium reversing or stop.

The manual cut-off reversing valve series control by handle, finally also reach the purpose of medium reversing or stop.

K-12



K

Sanitary Stop/Reversing Valve

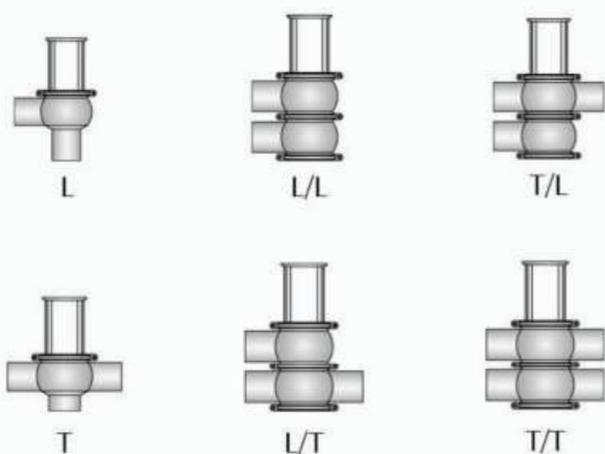


Standard Design:

Various standards of valves can be provided to clients:
DIN,3A,SMS,ISO/IDF,BS/RJT,ASME/BPE etc.

The series of valve have two type valve, that is the cut-off type and reversing type,the cut-off type can made of two or three pipeline connector, the reversing valve can made of three to five pipeline connector, their variety full satisfied the needed of market.

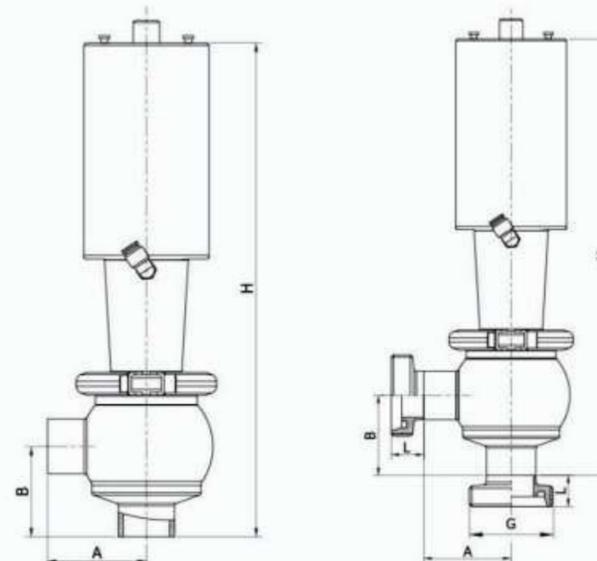
Flow Type:



K-13

K

Sanitary Stop Valve



Pneumatic Stop Valve

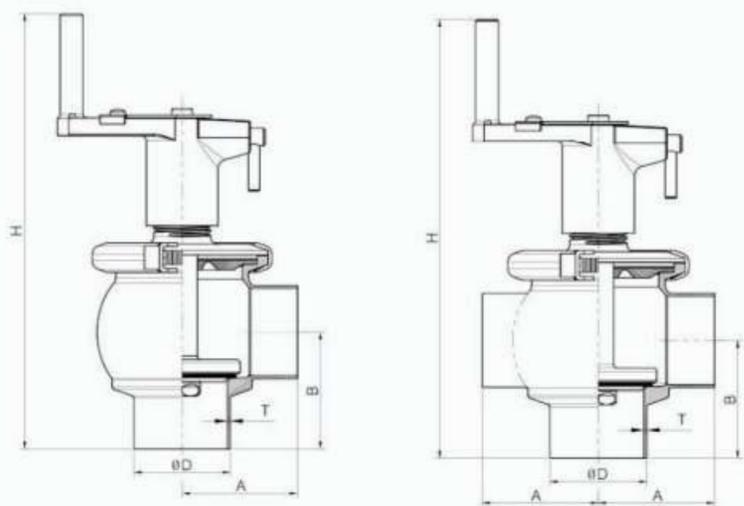
DIN	Size						H	A	B
	3A	GMS	ISO						
DN40	1 1/2 *	38	Φ38						
G	L	G	L	G	L	485.0	65.0	62.0	
RD65x1/8	22.0	50.65x1/8 TACME	18.3	RD60x1/8	20.0	50.6x1/8 TACME	21.5		
DN50	2"	51	Φ51						
G	L	G	L	G	L	528.0	65.0	62.0	
RD78x1/8	22.0	64.17x1/8 TACME	19.1	RD70x1/8	21.0	60.2x1/8 TACME	21.5		
	2 1/2 *	63	Φ63						
	G	L	G	L	G	539.0	84.5	81.3	
	77.67x1/8 TACME	22.2	RD85x1/8	22.0	77.7x1/8 TACME	21.5			
DN65	3"	76	Φ76						
G	L	G	L	G	L	585.0	93.5	93.5	
RD95x1/8	24.0	91.19x1/8 TACME	23.1	G	24.0	91.2x1/8 TACME	21.5		
DN80			RD98x1/8						
G	L					596.0	118.5	115.0	
RD110x1/4	28.0								
DN100	4"	102	Φ102						
G	L	G	L	G	L	623.0	118.5	115.0	
RD130x1/4	28.0	119.25x1/8 TACME	26.2	RD125x1/4	26.0	118.4x1/8 TACME	21.5		

K-14



K

Sanitary Stop Valve



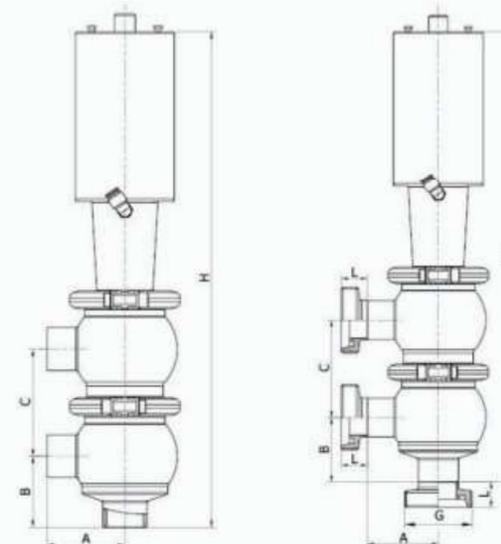
Manual Stop Valve

DN	Size			H	A	B
	3A	SMS	ISO			
DN25	1"	25	Φ25	223.0	68.0	62.0
DXT	DxT	DxT	D ±T			
29x1.5	25.4x1.65	25.4x1.5	25.4x1.5	223.0	68.0	62.0
DN32	1 1/4"	32	Φ32			
DXT	DxT	DxT	D ±T	223.0	68.0	62.0
34x1.5	31.8x1.65	31.8x1.5	31.8x1.5			
DN40	1 1/2"	38	Φ38	223.0	68.0	62.0
DXT	DxT	DxT	D ±T			
40x1.5	38.1x1.65	38.1x1.5	38.1x1.5	223.0	68.0	62.0
DN50	2"	51	Φ51			
DXT	DxT	DxT	D ±T	223.0	68.0	62.0
52x1.5	50.8x1.65	50.8x1.5	50.8x1.5			

K-15

K

Sanitary Stop Valve



Pneumatic Reversing Valve

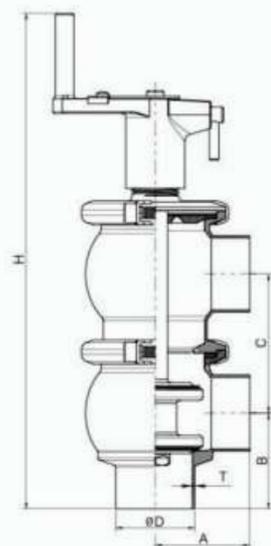
DN	Size				H	A	B	C
	3A	SMS	ISO					
DN40	1 1/2"	38	Φ38		352.0	68.0	62.0	93.0
G	L	G	L	G				
RD65x1/6	22.0	50.65 x 1/8 TACME	18.3	RD60x1/6	20.0	50.6 x 1/8 TACME	21.5	
DN50	2"	51	Φ51		604.0	68.0	62.0	93.0
G	L	G	L	G				
RD78x1/6	22.0	64.17 x 1/8 TACME	19.1	RD70x1/6	20.0	64.2 x 1/8 TACME	21.5	
		2 1/2"	63	Φ63	628.0	84.5	81.3	95.0
		G	L	G				
		77.67x 1/8 TACME	22.2	RD65x1/6	22.0	77.7 x 1/8 TACME	21.5	
DN65	3"	76	Φ76		686.0	93.5	93.5	116.0
G	L	G	L	G				
RD95x1/6	24.0	91.19x 1/8 TACME	23.1	RD98x1/6	23.0	91.2 ±1/8 TACME	21.5	
DN80					707.0	118.5	115.9	138.0
G	L							
RD110x1/4	28.0							
DN100	4"	102	Φ102		753.0	118.5	115.0	138.0
G	L	G	L	G				
RD130x1/4	29.0	119.25x 1/8 TACME	29.2	RD125x1/4	29.0	118.4 ±1/8 TACME	21.5	

K-16



K

Sanitary Stop Valve



Manual Reversing Valve

DN	Size			H	A	B	C
	SA	SMS	ISO				
DN25	1"	25	Φ25	320.0	68.0	62.0	93.0
DXT	DXT	DxT	DxT				
28x1.5	25.4x1.65	25.4x1.5	25.4x1.5	320.0	68.0	62.0	93.0
DN32	1 1/4"	32	Φ32				
DXT	DXT	DxT	DxT	320.0	68.0	62.0	93.0
34x1.5	31.8x1.65	31.8x1.5	31.8x1.5				
DN40	1 1/2"	38	Φ38	320.0	68.0	62.0	93.0
DXT	DXT	DxT	DxT				
40x1.5	38.1x1.65	38.1x1.5	38.1x1.5	320.0	68.0	62.0	93.0
DN50	2"	51	Φ51				
DXT	DXT	DxT	DxT	320.0	68.0	62.0	93.0
52x1.5	50.8x1.65	50.8x1.5	50.8x1.5				

K-17

K

Sanitary Regulating Valve



Application:

Widely applied in sanitary fluid pipeline system, manual control pressure and flow.

Work Principle:

This type of regulating valve operated by hand wheel, the handwheel clockwise adjustment, pressure and flow will decrease gradually till closed; while the The handwheel counterclockwise adjustment, pressure and flow will increase gradually till full open. Gradually adjusting conical plug, again by bolts will plug a lock on moves to the position.

Standard Design:

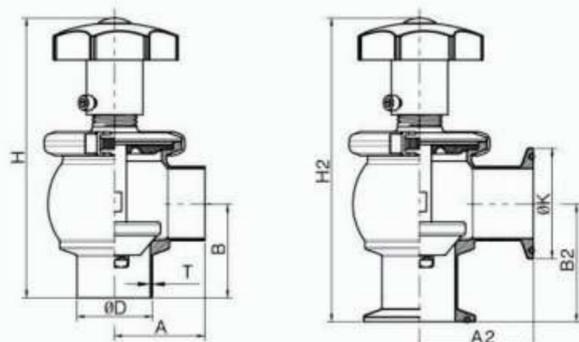
Valve body Belt plug valve stem used stainless steel 304 or acid-resistant steel 316L. Valve body outer sand blast polishing. Stem plating strengthening chrome. Gasket and lip shape seal use high-temperature (100 °) EPDM rubber material.

K-18



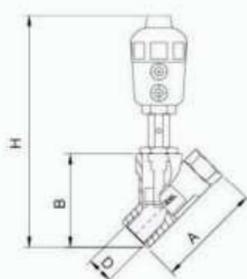
K

Sanitary Regulating Valve



Sanitary Regulating Valve

DN	3A	SMØ	ISO	H	A	B	H2	A2	B2	K
DN25	1 1/2"	38	Ø38	181.0	66.0	59.5	193.7	78.7	72.2	50.5
DXT	DXT	DxT	DxT							
28X1.5	38.1X1.65	38.1x1.5	38.1x1.5	181.0	66.0	59.5	193.7	78.7	72.2	64.0
DN32	2"	51	Ø51							
DXT	DXT	DxT	DxT	203.0	84.5	81.5	215.7	97.2	94.2	77.5
34X1.5	50.8X1.65	50.8x1.5	50.8x1.5							
	2 1/2"	63	Ø63	241.0	86.5	81.5	253.7	99.2	94.2	91.0
DXT	DXT	DxT	DxT							
DN40	3"	76	Ø76	241.0	86.5	81.5	253.7	99.2	94.2	106.0
DXT	DXT	DxT	DxT							
40X1.5	76.2X1.65	76.2x2.0	76.2x2.0							
DN50										
DXT										
52X1.5										



Pneumatic Angle Valve

Size	A	B	H	D
DN15	85.0	75.0	215.0	G 1/2
DN20	95.0	85.0	227.0	G 3/4
DN25	105.0	95.0	255.0	G 1
DN32	120.0	110.0	285.0	G 1 1/4
DN40	130.0	120.0	31.0	G 1 1/2
DN50	150.0	140.0	340.0	G 2
DN65	185.0	175.0	375.0	G 2 1/2

K-19

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K

Sanitary Diaphragm Valve



Application:

RG diaphragm valve is a series of sanitary diaphragm valve, it is widely used on wine, dairy products, beverage, foodstuff industry, pharmacy etc. achieving the requirement of control and open/close for the pipeline system.

Work Principle:

The diaphragm is close under normal state, and that moment the diaphragm clung to the valve body cavity, and closing off the flow path through the pipeline. When the diaphragm valve have the requirement to clean or open, the valve stem moves upwards according to the manual or pneumatic actuator equipment, spherical diaphragms naturally bond upwards, so that the valve is open and reach the requirement of clean and open. The diaphragm make the lower body cavity and the upper chamber separated from the valve cover, so that the stem at the top of the diaphragm, disc media and other parts from corrosion, eliminating the need for packing structure, and no media leaks. The optimize valve body made the cleaning liquid flow out totally, so that don't have any entrapment.

Material:

Steel components: stainless steel 304, stainless 316L
Seal: EPDM + PTFE the seals are imported seal material (which conform to the FDA177.2600 standard). With Riter unique technology, will be a bolt coupling nut with EPDM/PTFE perfect combination into a whole sealing parts, the sealing parts contact with the media of the parts of the PTFE material has good cold resistance (-25 °C) excellent heat-resistance (+250 °C) of all sorts of chemical preparation is well tolerated and excellent wear resistance to flow.

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K-20

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Standard Design:

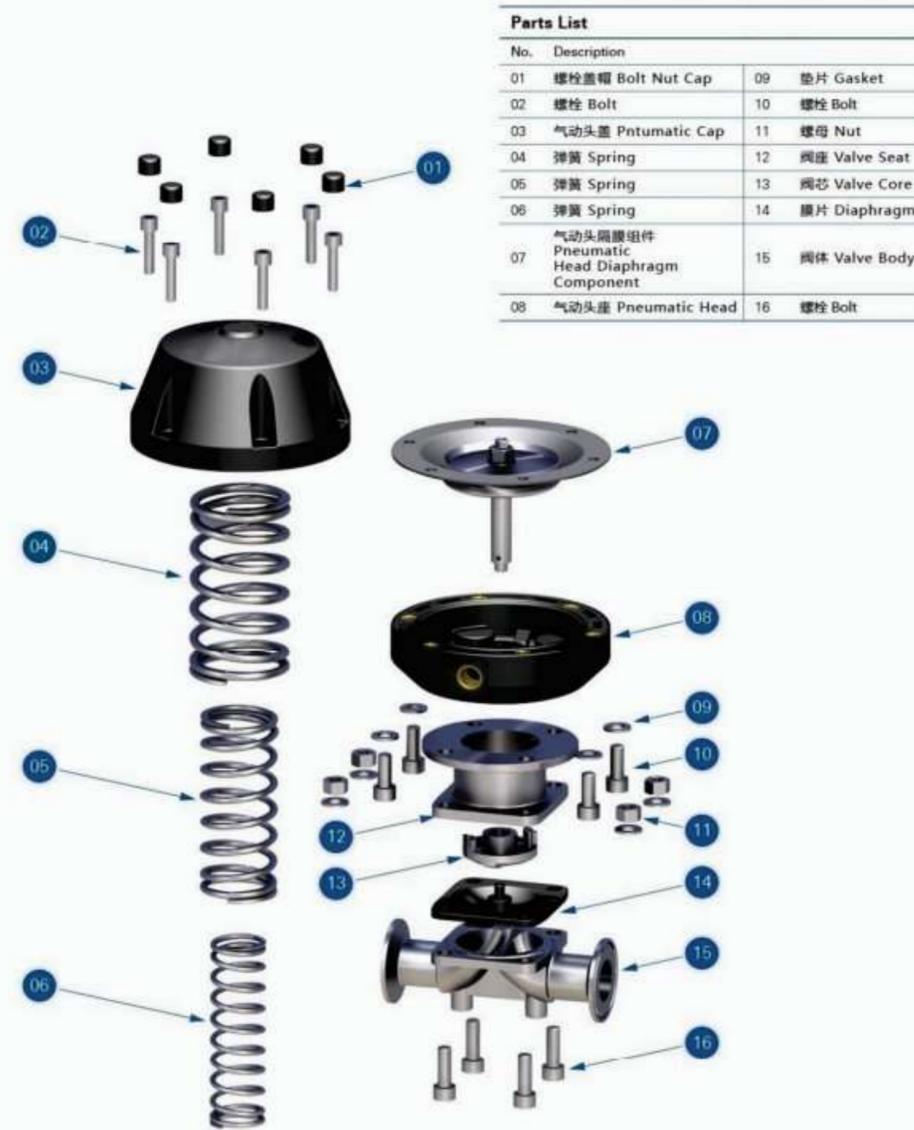
Various standards of valves can be provided to clients: DIN,3A,SMS,ISO/IDF,BS/RJT,ASME/BPE etc.

The parts of valves: an actuator, diaphragm and body which assemble together with bolts and nuts. The entire valve assembly is meticulously. The actuator can be manual and pneumatic, the diaphragm made of artificial rubber which can have all kinds of soft and hard degree. The body can be two way or three way.

The connection of the diaphragm as follows: clamp, weld, T-type tee, U type tee etc.



Diaphragm



Parts List		
No.	Description	
01	螺栓盖帽 Bolt Nut Cap	09 垫片 Gasket
02	螺栓 Bolt	10 螺栓 Bolt
03	气动头盖 Pneumatic Cap	11 螺母 Nut
04	弹簧 Spring	12 阀座 Valve Seat
05	弹簧 Spring	13 阀芯 Valve Core
06	弹簧 Spring	14 膜片 Diaphragm
07	气动头盖组件 Pneumatic Head Diaphragm Component	15 阀体 Valve Body
08	气动头座 Pneumatic Head	16 螺栓 Bolt

K-21

K-22



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K



Parts List	
No.	Description
01	盖帽 Cap
02	手轮 Handwheel
03	螺钉 Screw
04	阀杆 Valve Rod
05	阀盖 Valve Cap
06	阀芯 Valve Core
07	膜片 Diaphragm
08	阀体 Valve Body
09	螺母 Nut



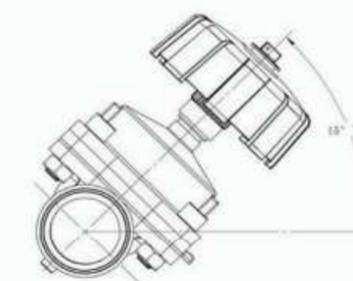
Technical Data

Material	Contact with the product components	304L / 316L (1.4306 / 1.4404) Forging	Can provide material inspection report
	Material No contact with the product components	304 / 202 (1.4301 / 202)	
Sealing material	Standard	EPDM+PTFE	Adopt import sealing materials, with all the seal material The FDA 117.2600
	Option	VMQ	
Pressure	Pressure of work	0-10bar	
	Control air pressure	5-8bar	
Temperature	Working temperature	VMQ(-50 ~ +180°C) EPDM (-20 ~ +135°C) FPM(-30 ~ +230°C)	
	Sterilization temperature	150°C (MAX 20min)	
Surface treatment	Inside surface treatment	Ra<0.4-0.8um	
	Surface treatment	Ra<0.8-1.6um	
Connection	The diameter welding	Welding mouth: DIN 11850-2 with 11850-1 / SMS / 3A / ISO Series etc	
	Connection mode: welding, fast loading, Union, flange, etc		
Pneumatic control	Pneumatic head and fixed bracket		

Optimal Installation Angle Diagram

无菌隔膜阀根据其结构特点：推荐15~30角度安装（根据不同的规格而定），有利于阀门清洗后完全排泄，不易造成液体滞留阀门内部。

According to the structure feature, fifteen thirty degree is optimal, which makes for complete drain after cleaning and keep no residue.

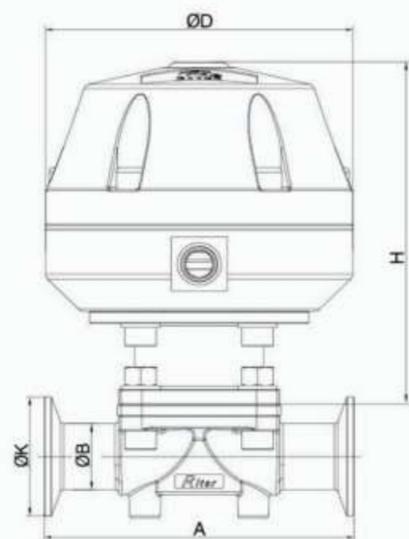


K-23

K-24

K

Sanitary Pneumatic Diaphragm Valve



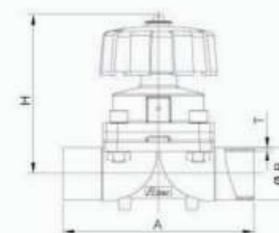
Clamped Diaphragm Valve

DN	Size			A	D	H
	3A	SMS	ISO			
DN20	3/4"	19	Φ19	108.0	126.0	146.2
B 22	B 19.1	B 19.1	B 19.1			
K 50.5	K 25.4	K 25.4	K 25.4			
DN25	1"	25	Φ25	118.0	126.0	146.2
B 28	B 25.4	B 25.4	B 25.4			
K 50.5	K 50.5	K 50.5	K 50.5			
DN32	1 1/4"	32	Φ32	127.0	126.0	146.2
B 34	B 31.8	B 31.8	B 31.8			
K 50.5	K 50.5	K 50.5	K 50.5			
DN40	1 1/2"	38	Φ38	146.0	126.0	146.2
B 40	B 38.1	B 38.1	B 38.1			
K 50.5	K 50.5	K 50.5	K 50.5			
DN50	2"	51	Φ51	190.0	126.0	146.2
B 52	B 50.8	B 50.8	B 50.8			
K 64.0	K 64.0	K 64.0	K 64.0			
DN65	2 1/2"	63	Φ63	216.0	126.0	146.2
B 70	B 63.5	B 63.5	B 63.5			
K 91.0	K 77.5	K 77.5	K 77.5			

K-25

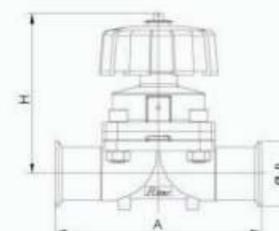
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Sanitary Manual Diaphragm Valve



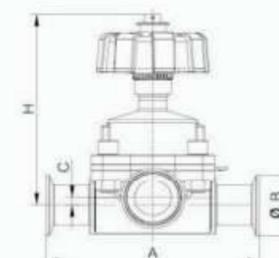
Welded Diaphragm Valve

Size	A	B	H	T
DN10	108.0	12.0	93.5/102.5	1.5
DN15	108.0	18.0	93.5/102.5	1.5
DN20	118.0	22.0	111.5/122	1.5
DN25	127.0	28.0	111.5/122	1.5
DN32	146.0	34.0	144.5/160	1.5
DN40	146.0	40.0	144.5/160	1.5
DN50	190.0	52.0	167/190	1.5
DN65	216.0	70.0	199/228	2.0



Clamped Diaphragm Valve

Size	A	B	H
DN10	108.0	25.0	93.5/102.5
DN15	108.0	34.0	93.5/102.5
DN20	118.0	50.5	111.5/122
DN25	127.0	50.5	111.5/122
DN32	146.0	50.5	144.5/160
DN40	146.0	50.5	144.5/160
DN50	190.0	64.0	167/190
DN65	216.0	91.0	199/228



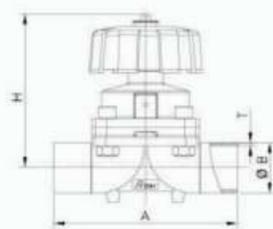
T-type Three-way Diaphragm Valve

Size	A	B	C	H
DN10	108.0	25.0	6.0	93.5/102.5
DN15	108.0	34.0	6.0	93.5/102.5
DN20	118.0	50.5	6.0	111.5/122
DN25	127.0	50.5	6.0	111.5/122
DN32	146.0	50.5	6.0	144.5/160
DN40	146.0	50.5	6.0	144.5/160
DN50	190.0	64.0	6.0	167/190
DN65	216.0	91.0	6.0	199/228

K-26

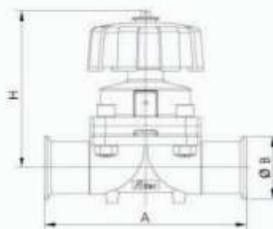
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Sanitary Manual Diaphragm Valve



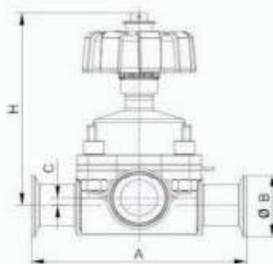
Welded Diaphragm Valve

Size	A	B	H	T
1/2"	108.0	12.7	93.5/102.5	1.65
3/4"	108.0	19.1	93.5/102.5	1.65
1"	118.0	25.4	111.5/122	1.65
1 1/4"	127.0	31.8	144.5/160	1.65
1 1/2"	146.0	38.1	144.5/160	1.65
2"	190.0	50.8	167/190	1.65
2 1/2"	216.0	63.5	199/228	1.65



Clamped Diaphragm Valve

Size	A	B	H
1/2"	108.0	25.4	93.5/102.5
3/4"	108.0	25.4	93.5/102.5
1"	118.0	50.5	111.5/122
1 1/4"	127.0	50.5	144.5/160
1 1/2"	146.0	50.5	144.5/160
2"	190.0	64.0	167/190
2 1/2"	216.0	77.5	199/228



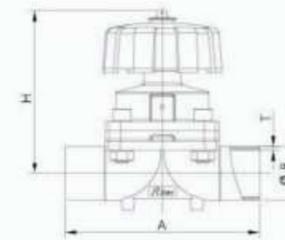
T-type Three-way Diaphragm Valve

Size	A	B	C	H
1/2"	108.0	25.4	6.0	93.5/102.5
3/4"	108.0	25.4	6.0	93.5/102.5
1"	118.0	50.5	6.0	111.5/122
1 1/4"	127.0	50.5	6.0	144.5/160
1 1/2"	146.0	50.5	6.0	144.5/160
2"	190.0	64.0	6.0	167/190
2 1/2"	216.0	77.5	6.0	199/228

K-27

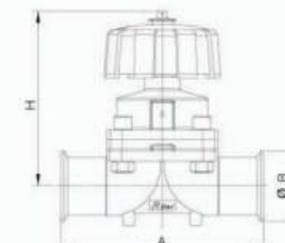
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Sanitary Manual Diaphragm Valve



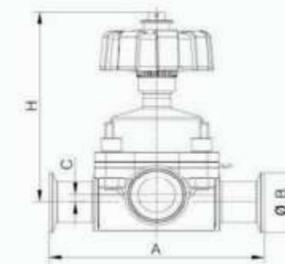
Welded Diaphragm Valve

Size	A	B	H	T
12.7	108.0	12.7	93.5/102.5	1.5
19	108.0	19.1	93.5/102.5	1.5
25	118.0	25.4	111.5/122	1.5
32	127.0	31.8	144.5/160	1.5
38	146.0	38.1	144.5/160	1.5
51	190.0	50.8	167/190	1.5
63	216.0	63.5	199/228	2.0



Clamped Diaphragm Valve

Size	A	B	H
12.7	108.0	25.4	93.5/102.5
19	108.0	25.4	93.5/102.5
25	118.0	50.5	111.5/122
32	127.0	50.5	144.5/160
38	146.0	50.5	144.5/160
51	190.0	64.0	167/190
63	216.0	77.5	199/228



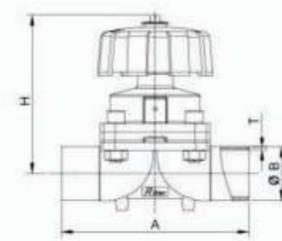
T-type Three-way Diaphragm Valve

Size	A	B	C	H
12.7	108.0	25.4	6.0	93.5/102.5
19	108.0	25.4	6.0	93.5/102.5
25	118.0	50.5	6.0	111.5/122
32	127.0	50.5	6.0	144.5/160
38	146.0	50.5	6.0	144.5/160
51	190.0	64.0	6.0	167/190
63	216.0	77.5	6.0	199/228

K-28

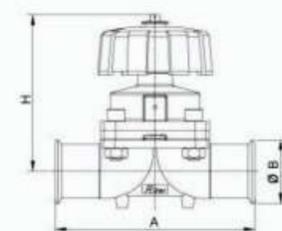
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Sanitary Manual Diaphragm Valve



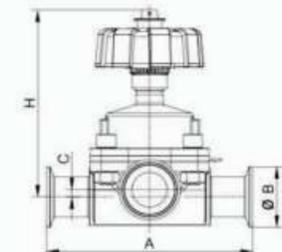
Welded Diaphragm Valve

Size	A	B	H	T
φ12.7	108.0	12.7	93.5/102.5	1.5
φ19	108.0	19.1	93.5/102.5	1.5
φ25	118.0	25.4	111.5/122	1.5
φ32	127.0	31.8	144.5/160	1.5
φ38	146.0	38.1	144.5/160	1.5
φ51	190.0	50.8	167/190	1.5
φ63	216.0	63.5	190/228	2.0



Clamped Diaphragm Valve

Size	A	B	H
φ12.7	108.0	25.4	93.5/102.5
φ19	108.0	25.4	93.5/102.5
φ25	118.0	50.5	111.5/122
φ32	127.0	50.5	144.5/160
φ38	146.0	50.5	144.5/160
φ51	190.0	64.0	167/190
φ63	216.0	77.5	190/228



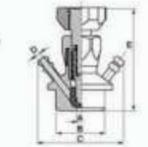
T-type Three-way Diaphragm Valve

Size	A	B	C	H
φ12.7	108.0	25.4	6.0	93.5/102.5
φ19	108.0	25.4	6.0	93.5/102.5
φ25	118.0	50.5	6.0	111.5/122
φ32	127.0	50.5	6.0	144.5/160
φ38	146.0	50.5	6.0	144.5/160
φ51	190.0	64.0	6.0	167/190
φ63	216.0	77.5	6.0	190/228

K-29

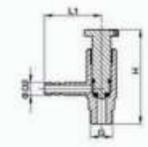
K

Sample Valve



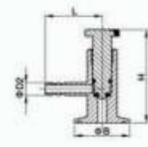
Sanitary aseptic sample valve

Size	A	B	C	D	E
DN15	6	57	75	4	75
DN25	8	74	92	8	98



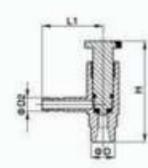
Threaded sample valve

Size	H	D2	B	L1
1/2"	89	12	1/2	52
3/4"	89	12	3/4	52



Clamped sample valve

Size	H	D2	B	L1
1/2"	89	12	50.5	52



Welded sample valve

Size	H	D2	B	L1
1/2"	89	12	25.4	52



Level Gauge

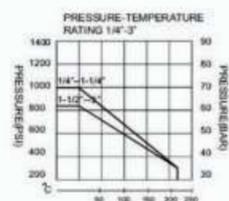
Size	H	D2	B	L1
1/2"	89	12	25.4	52

K-30

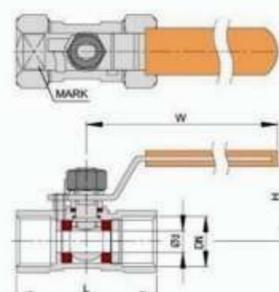


Industrial Valve

1PC BALL VALVE



- Features:
- 1000WOG, PN63
 - Reduce Port
 - Locking Device Handle Upon Request
 - Blow-Out Proof Stem
 - PTFE Packing Sealing
 - Design Standard: ASME B16.34
 - Thread: ASME B1.201/B821/DIN2999
 - DIN259/ISO228/1
 - Testing Standard: API 598/SP-110



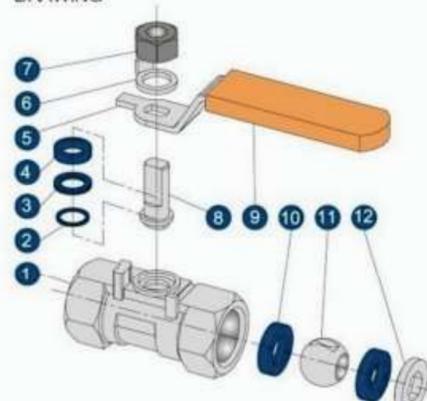
PRESSURE TESTING

STANDARD PRESSURE	1000PSI
SHELL PRESSURE TESTING	10.4Mpa
WATER SEAL TESTING	7.6Mpa
AIR SEAL TESTING	0.4-0.7Mpa

1000PSI/PN63 DIMENSION

SIZE	L	φd	H	W	TORQUE N.M	CV
1/4"	41	5	35	65	3	1
3/8"	45	7	37	70	3	1.2
1/2"	55	9	44	90	3	1.3
3/4"	59	12.5	47	90	4	2
1"	70	15	50	105	5	3.4
1-1/4"	76	20	57	105	7	7.1
1-1/2"	84	25	59	100	8	12.4
2"	97	32	75	130	15	20.3
2-1/2"	124	40	95	180	22	28.5
3"	148	49	105	180	25	47.5

DRAWING

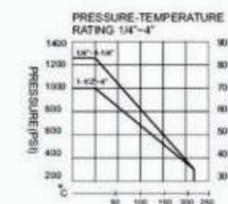


ITEM	PART NAME	MATERIAL
1	BODY	CF8M CFB WCB
2	THRUST WASHER	PTFE
3	STEM PACKING	PTFE
4	GLAND	SUS304
5	HANDLE	SUS304
6	STOP WASHER	SUS304
7	NUT	SUS304
8	STEM	SUS316 SUS304
9	HANDLE COVER	VINYL
10	BALL SEAT	PTFE R-PTFE
11	BALL	SUS316 SUS304
12	END CAP	CF8M CFB

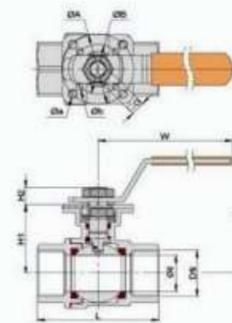
L-1

Industrial Valve

2PC BALL VALVE ISO-DIRECT MOUNTING PAD



- Features:
- 1000WOG, PN63
 - Full Port
 - Locking Device Handle Upon Request
 - Blow-Out Proof Stem
 - PTFE Packing Sealing
 - Blank Hole in Ball Slot
 - Design Standard: ASME B16.34
 - Spring Ball Seat for Self-Adjustment
 - ISO2111 Direct Mounting Pad Top Flange
 - Testing Standard: API 598/SP-110



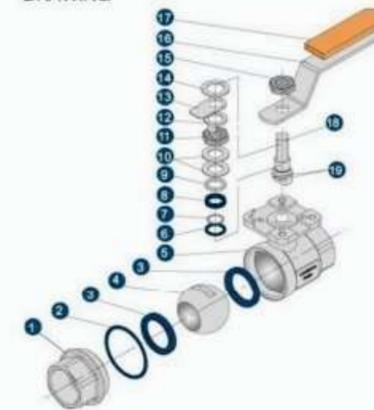
PRESSURE TESTING

STANDARD PRESSURE	1000PSI
SHELL PRESSURE TESTING	10.4Mpa
WATER SEAL TESTING	7.6Mpa
AIR SEAL TESTING	0.4-0.7Mpa

1000PSI/PN63 DIMENSION

SIZE	L	φd	W	H	H1	H2	φA	φB	φa	φb	□G	TORQUE N.M	CV
1/4"	50	11.5	110	60	36	8	42	36	6	5.5	9	4	2
3/8"	60	12	110	60	36	8	42	36	6	5.5	9	4	2
1/2"	75	15	110	64	38	8.5	42	36	6	5.5	9	5	3.4
3/4"	80	20	120	80	42	9	42	36	6	5.5	9	7	7.1
1"	90	25	145	93	51.5	11	50	42	7	6	11	8	12.4
1-1/4"	110	32	145	95	56.5	11	50	42	7	6	11	15	20.3
1-1/2"	120	40	160	126	70	14	70	50	9	7	14	22	28.5
2"	140	50	170	129	77.5	15	70	50	9	7	14	25	47.5
2-1/2"	185	65	230	148	95	18	100	70	11	9	17	50	76
3"	205	80	260	152	107	18	100	70	11	9	17	85	108.4
4"	240	100	300	187	125	19	100	70	11	9	19	115	198

DRAWING



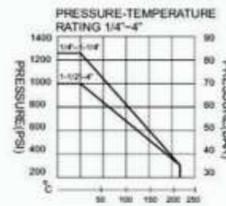
ITEM	PART NAME	MATERIAL
1	CAP	CF8M CFB WCB
2	BODY GASKET	PTFE R-PTFE
3	BALL SEAT	PTFE RPTFE
4	BALL	SUS316 SUS304
5	BODY	CF8M CFB WCB
6	THRUST WASHER	SUS304
7	O-RING	VITON
8	STEM PACKING	PTFE
9	GLAND	SUS304
10	BELLEVILLE WASHER	SUS304
11	STOP NUT	A194-8
12	STOP WASHER	SUS304
13	LOCKING WASHER	R-PTFE
14	WASHER	SUS304
15	STEM NUT	A194-8
16	HANDLE	SUS304
17	HANDLE COVER	PLASTIC
18	STEM	SUS316 SUS304
19	ANTI-STATIC DEVICE	SUS304

L-2

L

Industrial Valve

2PC BALL VALVE

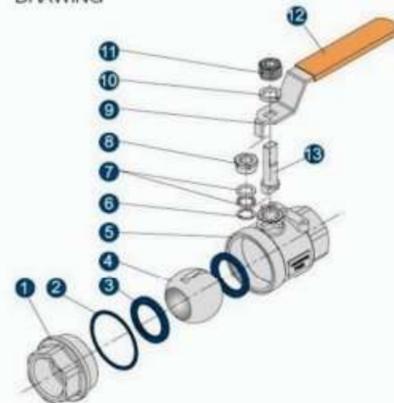


- Features:
- Full Port
 - Locking Device Handle Upon Request
 - Blow-Out Proof Stem
 - Balance Hole in Ball Slot
 - Spring Ball Seat Design
 - Precision Casting
 - Design Standard: ASME B16.34
 - Testing Standard: API 598/SP-110
 - Light Type & DIN3202-M3 Available

1000PSI/PN63
DIMENSION
L* = DIN3202-M3

SIZE	L*	L	φd	W	H	TORQUE N.M	CV
1/4"	50	55	10.5	100	50	4	2
3/8"	60	55	12	100	50	4	2
1/2"	75	62	15	130	60	5	3.4
3/4"	80	72	20	130	64	7	7.1
1"	90	84	25	165	71	8	12.4
1-1/4"	110	97	32	165	78	15	20.3
1-1/2"	120	104	38	190	88	22	28.5
2"	140	120	49	190	95	25	47.5
2-1/2"	185	150	62	215	130	50	76
3"	205	164	76	250	148	85	108.4
4"	240	200	96	280	180	115	198

DRAWING



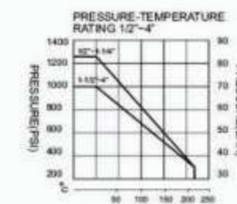
ITEM	PART NAME	MATERIAL
1	CAP	CF8M CF8
2	CAP GASKET	PTFE
3	BALL SEAT	PTFE R-PTFE
4	BALL	SUS316 SUS304
5	BODY	CF8M CF8
6	THRUST WASHER	PTFE PEEK
7	STEM PACKING	PTFE
8	STOP NUT	SUS304
9	HANDLE	SUS304
10	SPRING WASHER	SUS304
11	NUT	SUS304
12	HANDLE COVER	PLASTIC
13	STEM	SUS316 SUS304

L-3

L

Industrial Valve

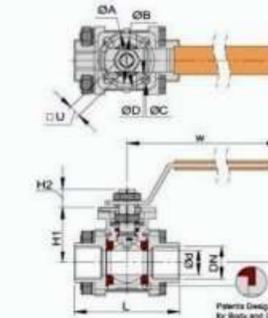
3PC BALL VALVE ISO-DIRECT MOUNTING PAD



- Features:
- Spring Ball Seat for Self-Adjust
 - Full Port
 - Locking Device Handle Upon Request
 - Blow-Out Proof Stem
 - V-Ring Packing Sealing
 - Balance Hole in Ball Slot
 - Design Standard: ASME B16.34
 - Anti-Static Device
 - Butt-Welding and Socket End Available
 - Testing Standard: API 598/SP-110

1000PSI/PN63
DIMENSION

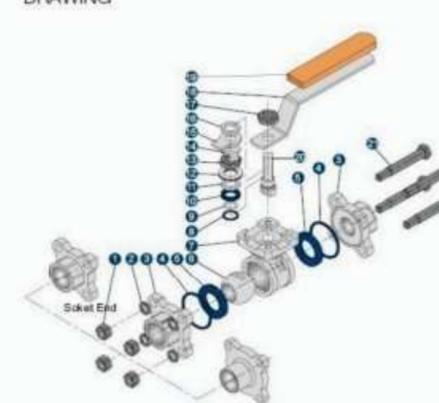
SIZE	L	φd	W	H	H1	H2	φA	φB	φC	φD	□U	TORQUE N.M	CV
1/2"	70	15	125	60	40	8.5	42	36	6	6	9	5	3.4
3/4"	80	20	125	64	44	8.5	42	36	6	6	9	7	7.2
1"	90	25	155	79.5	52	11	50	42	7	6	11	8	12.5
1-1/4"	110	32	155	87	57	11	50	42	7	6	11	15	20.3
1-1/2"	116	38	196	106	70	14	70	50	8.5	7	14	22	28.5
2"	136	49	196	115	80	15	70	50	8.5	7	14	25	47.5
2-1/2"	165	65	245	126	94.5	18	102	70	11	9	17	50	76
3"	200	76	245	147	103	18	102	70	11	9	17	85	108.5
4"	235	96	300	165	123	19	102	70	11	9	19	113	198



PRESSURE TESTING

STANDARD PRESSURE	1000PSI
SHELL PRESSURE TESTING	10.4Mpa
WATER SEAL TESTING	7.6Mpa
AIR SEAL TESTING	0.4-0.7Mpa

DRAWING

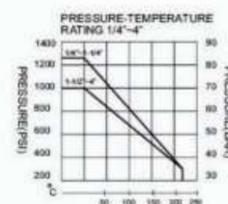


ITEM	PART NAME	MATERIAL
1	NUT	A194-8
2	SPRING WASHER	SUS304
3	CAP	CF8M CF8
4	BODY GASKET	PTFE
5	BALL SEAT	PTFE R-PTFE
6	BALL	SUS316 SUS304
7	BODY	CF8M CF8
8	THRUST WASHER	PTFE
9	O-RING	VITON
10	STEM PACKING	PTFE
11	GLAND	SUS304
12	ELLEVILLE WASHER	SUS304
13	STOP NUT	A194-8
14	STOP WASHER	SUS304
15	LOCKING WASHER	SUS304
16	WASHER	SUS304
17	STEM NUT	A194-8
18	HANDLE	SUS304
19	HANDLE COVER	PLASTIC
20	STEM	SUS316 SUS304

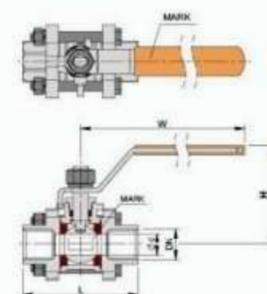
L-4

Industrial Valve

3PC BALL VALVE



- Features:
- 1000psi/PN63
 - Full Port
 - Locking Device Handle Upon Request
 - Blow-Out Proof Stem
 - PTFE Packing Sealing
 - Balance Hole in Ball Slot
 - Design Standard: ASME B16.34
 - Precision Casting
 - ISO5211 Mounting Pad Top Flange
 - Testing Standard: API 598/SP-110



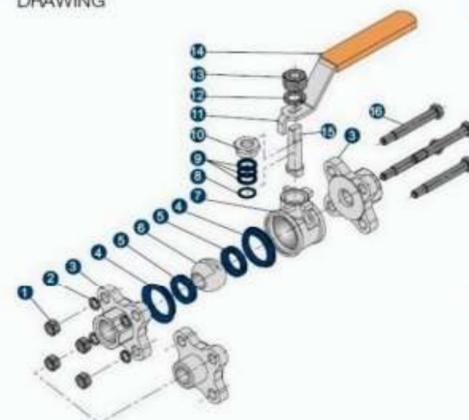
PRESSURE TESTING

STANDARD PRESSURE	1000PSI
SHELL PRESSURE TESTING	10.4Mpa
WATER SEAL TESTING	7.6Mpa
AIR SEAL TESTING	0.4-0.7Mpa

1000PSI/PN63 DIMENSION

SIZE	DN	L	d	H	W	TORQUE N.M	CV
1/4"	DN8	67	12.5	59	100	3.5	2
3/8"	DN10	67	12.5	59	100	4	2
1/2"	DN15	70	15	61	120	5	3.5
3/4"	DN20	80	20	67	125	7	7.1
1"	DN25	90	25	74	150	8	12.4
1-1/4"	DN32	110	32	82	160	15	20.3
1-1/2"	DN40	119	30	99	190	22	28.5
2"	DN50	140	49	105	200	25	47.5
2-1/2"	DN65	190	63	120	265	50	76
3"	DN80	201	76	137	310	85	108.4
4"	DN100	234	96	157	310	115	198

DRAWING



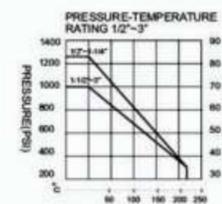
MATERIAL LIST

ITEM	PART NAME	MATERIAL
1	NUT	A194-8
2	SPRING WASHER	SUS304
3	CAP	CF8M CF8
4	BODY GASKET	PTFE R-PTFE
5	BALL SEAT	PTFE R-PTFE
6	BALL	SUS316 SUS304
7	BODY	CF8M CF8
8	THRUST WASHER	PTFE
9	STEM PACKING	PTFE
10	STOP NUT	SUS304
11	HANDLE	GU3004
12	SPRING WASHER	SUS304
13	STEM NUT	A194-8
14	HANDLE COVER	PLASTIC
15	STEM	SUS316 SUS304
16	BOLT	A193-B8

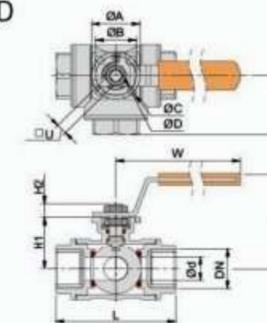
L-5

Industrial Valve

3-WAY BALL VALVE ISO-DIRECT MOUNTING PAD



- Features:
- Reduce Port
 - Locking Device Handle Upon Request
 - Blow-Out Proof Stem
 - ISO5211 Direct Mounting Pad
 - Design Standard: ASME B16.34
 - 1000WOG/PN63
 - Spring Ball Seat for Self-Adjust
 - Testing Standard: API 598



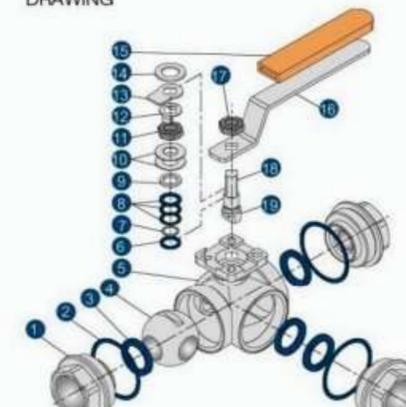
PRESSURE TESTING

STANDARD PRESSURE	1000PSI
SHELL PRESSURE TESTING	10.4Mpa
WATER SEAL TESTING	7.6Mpa
AIR SEAL TESTING	0.4-0.7Mpa

1000PSI/PN63 DIMENSION

SIZE	L	phi d	W	H	H1	H2	phi A	phi B	phi C	phi D	phi U	TORQUE N.M	CV
1/2"	73	12	120	65	36	8.5	42	36	6	6	9	5	1.3
3/4"	80	15	120	69	40	9	42	36	6	6	9	7	2
1"	88	18	150	77	46	11	50	42	7	6	11	8	3.5
1-1/4"	125	25	150	87	56	11	50	42	7	6	11	16	7
1-1/2"	136	32	240	107	69	14	70	50	9	7	14	22	12.4
2"	156	38	240	112	76	15	70	50	9	7	14	28	20.3
2-1/2"	200	50	260	129	93	17	102	70	11	9	17	50	28.5
3"	240	65	300	150	112	19	102	70	11	9	19	85	47

DRAWING



MATERIAL LIST

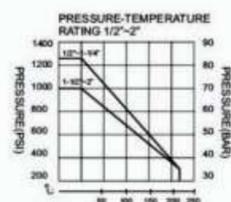
ITEM	PART NAME	MATERIAL
1	CAP	CF8M CF8
2	BODY GASKET	PTFE
3	BALL SEAT	PTFE R-PTFE
4	BALL	SUS316 SUS304
5	BODY	CF8M CF8
6	THRUST WASHER	PTFE
7	O-RING	VITON
8	STEM PACKING	PTFE
9	GLAND	SUS304
10	BELLEVILLE WASHER	SUS304
11	STOP NUT	A194-8
12	STOP CAP	SUS304
13	LOCKING WASHER	SUS304
14	WASHER	SUS304
15	HANDLE COVER	PLASTIC
16	HANDLE	SUS304
17	STEM NUT	A194-8
18	STEM	SUS316 SUS304
19	ANTI-STACTIC	SUS304

L-6

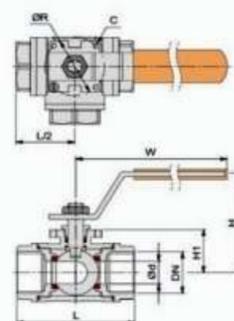
L

Industrial Valve

3-WAY BALL VALVE



- Features:
- Reduce Port
 - Locking Device Handle Upon Request
 - Blow-Out Proof Stem
 - Spring Ball Seat for Self-Adjust
 - Design Standard: ASME B16.34
 - ISO5211 Top Flange
 - L-Port/T-Port/X-port
 - Testing Standard: API 598



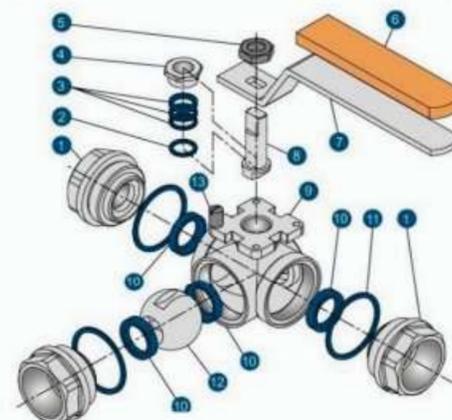
PRESSURE TESTING

STANDARD PRESSURE	1000PSI
SHELL PRESSURE TESTING	10.4Mpa
WATER SEAL TESTING	7.6Mpa
AIR SEAL TESTING	0.4-0.7Mpa

1000PSI/PN63 DIMENSION

SIZE	L	φd	W	H	H1	φR	C	TORQUE N.M	CV
1/2"	73	12	110	57	29	36	M6	5	1.3
3/4"	80	15	120	61	32	42	M6	7	2
1"	88	18	145	67	36.5	42	M6	8	3.4
1-1/4"	125	25	145	81	44	42	M6	15	7.1
1-1/2"	136	32	160	97	52.5	50	M6	22	12.4
2"	152	38	170	108	58.5	50	M6	25	20.3

DRAWING



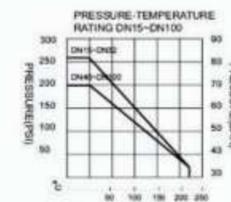
ITEM	PART NAME	MATERIAL
1	CAP	CF8M CFB
2	THRUST WASHER	PTFE
3	STEM SEALING	PTFE
4	STOP NUT	SUS304
5	STEM NUT	SUS304
6	HANDLE COVER	PLASTIC
7	HANDLE	SUS304
8	STEM	SUS316 SUS304
9	BODY	CF8M CFB
10	BALL SEAT	PTFE R-PTFE
11	GASKET	PTFE
12	BALL	SUS316 SUS304
13	LOCKING PIN	SUS304

L-7

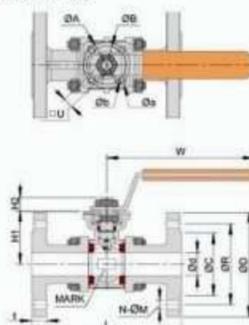
L

Industrial Valve

3PC FLANGED BALL VALVE ISO-DIRECT MOUNTING PAD



- Features:
- Range Standard: DIN2633/PN16
 - Full Port
 - Locking Device Handle Upon Request
 - Blow-Out Proof Stem
 - Fire-Safe Design upon Request
 - Balance Hole in Ball Slot
 - Anti-Static Device
 - Fire-Safe Design Upon Request
 - ISO5211 Direct Mounting Pad Top Flange
 - Testing Standard: API 598/SP-110



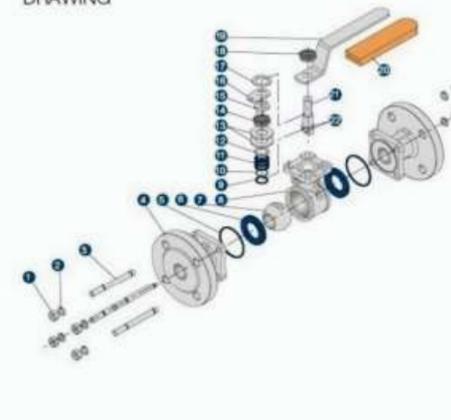
PRESSURE TESTING

STANDARD PRESSURE	1.6Mpa
SHELL PRESSURE TESTING	2.4Mpa
WATER SEAL TESTING	1.8Mpa
AIR SEAL TESTING	0.4-0.7Mpa

PN16 DIMENSION

DN	φd	L	H	H1	H2	W	φA	φB	φa	φb	φU	φC	φR	φD	TORQUE N.M	CV
15	15	115	69	49	8.5	125	42	36	6	5.5	9	45	65	95	5	3.4
20	20	120	75	54	8.5	125	42	36	6	5.5	9	58	75	105	7	7.1
25	25	125	87	60	11	155	50	42	7	6	11	68	85	115	8	12.4
32	32	130	99	72	11	155	50	42	7	6	11	78	100	140	15	20.3
40	38	140	116	80	14	195	70	50	9	7	14	88	110	150	22	29.5
50	50	150	134	88	15	195	70	50	9	7	14	109	125	165	25	47.5
65	65	170	140	102	18	260	102	70	11	9	17	122	145	185	49	76
80	80	180	153	116	18	260	102	70	11	9	17	138	160	200	83	108.4
100	100	190	175	134	19	300	102	70	11	9	19	158	180	220	115	198

DRAWING

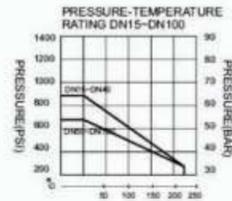


ITEM	PART NAME	MATERIAL
1	NUT	SUS304
2	CAP	CF8M CFB
3	CAP GASKET	PTFE R-PTFE
4	BALL SEAT	PTFE R-PTFE
5	BALL	SUS316 SUS304
6	THRUST WASHER	PTFE R-PTFE
7	O-RING	VITON
8	STEM PACKING	PTFE
9	GLAND	SUS304
10	BELLEVILLE WASHER	SUS304
11	STOP NUT	SUS304
12	NUT CAP	SUS304
13	LOCKING PIN	SUS304
14	WASHER	SUS304
15	STEM NUT	SUS304
16	HANDLE	SUS304
17	HANDLE COVER	PLASTIC
18	STEM	SUS316 SUS304
19	ANTI-STATIC	SUS304
20	BODY	CF8M CFB

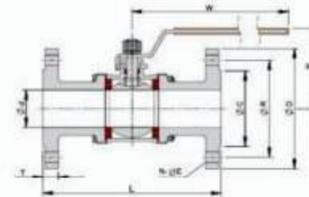
L-8

Industrial Valve

3PC FLANGED BALL VALVE



- Features:
- ANSI 150#/10K/PN16,300#/20K/PN40
 - Full Port
 - Locking Device Handle Upon Request
 - Blow-Out Proof Stem
 - V-Ring Packing Sealing
 - Fire Safe Design ACC-API6D
 - Balance Hole in Ball Slot
 - Design Standard:ASME B16.34
 - Range:ASME 16.5/BS10K/DIN PN10-40
 - Face to Face:ASME B16.10/DIN 3202-F1
 - Testing Standard:API 598



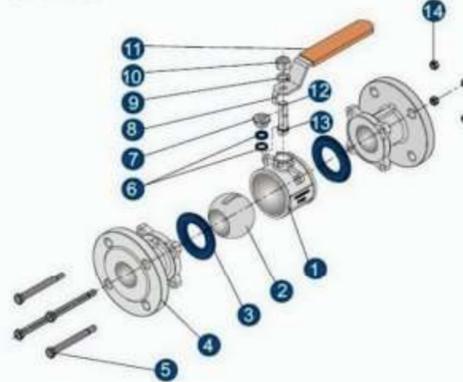
PRESSURE TESTING

STANDARD PRESSURE	4.0Mpa
SHELL PRESSURE TESTING	6.0Mpa
WATER SEAL TESTING	4.4Mpa
AIR SEAL TESTING	0.4-0.7Mpa

PN10-40 DIMENSION

SIZE	L	φd	W	H	φC	φR	φD	N	φE	T	TORQUE N.M	CV
DN15	130	15	115	59	45	65	95	4	14	16	5	3.4
DN20	150	20	125	67	58	75	105	4	14	18	7	7.1
DN25	160	25	150	74	68	85	115	4	14	18	8	12.4
DN32	180	32	160	82	78	100	140	4	18	18	16	20.3
DN40	200	38	190	99	88	110	150	4	18	18	22	28.5
DN50	230	50	200	105	102	125	165	4	18	20	25	47.5
DN65	290	65	265	120	122	145	185	8	18	22	50	76
DN80	310	80	300	135	138	160	200	8	18	24	80	108.4
DN100	350	100	300	157	162	190	235	8	22	24	113	198

DRAWING

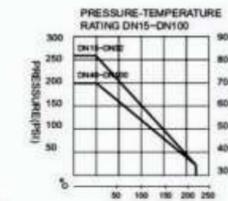


MATERIAL LIST		
ITEM	PART NAME	MATERIAL
1	BODY	CF8M CF8
2	BALL	SUS316 SUS304
3	BALL SEAT	PTFE R-PTFE
4	CAP	CF8M CF8
5	BOLT	SUS304
6	STEM PACKING	PTFE
7	STOP NUT	SUS304
8	HANDLE	SUS304
9	SPRING WASHER	SUS304
10	STEM NUT	SUS304
11	HANDLE COVER	PLASTIC
12	STEM	SUS316 SUS304
13	THRUST WASHER	SUS304
14	NUT	SUS304

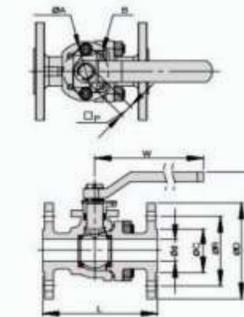
L-9

Industrial Valve

2PC FLANGED BALL VALVE



- Features:
- Full Port
 - Class 150/ Class 300
 - Fire-Design Upon Requirement Acc.API607
 - Blow-Out Proof Stem
 - Balance Hole in Ball Slot
 - V-Ring Packing for Self-Adjustment
 - Stem for Custom Requirement
 - Design Standard:ASME B16.34
 - Face to Face:ASME B16.10
 - Testing Standard:API 598/SP-110



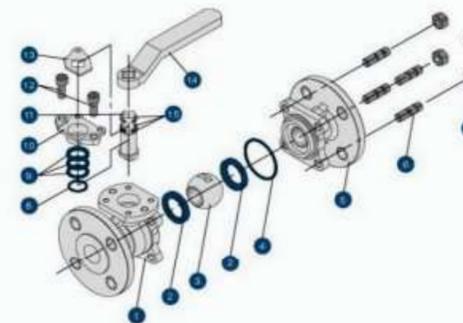
PRESSURE TESTING

STANDARD PRESSURE	1.0Mpa
SHELL PRESSURE TESTING	2.4Mpa
WATER SEAL TESTING	1.8Mpa
AIR SEAL TESTING	0.4-0.7Mpa

150LB DIMENSION

SIZE	φd	L	H	W	φC	φR	φD	N-M	P	A	B	TORQUE N.M	CV
DN15	15	108	94	125	34.9	60.3	90	4-16	9	42	5	5	3.4
DN20	20	117	97	125	42.9	69.9	100	4-16	9	42	5	7	7
DN25	25	127	106	155	50.8	79.4	110	4-18	11	50	5	8	12.4
DN32	32	140	150	155	63.5	88.9	115	4-18	11	50	5	15	20.3
DN40	38	165	127	190	73	96.4	125	4-16	14	70	6	22	28.5
DN50	50	178	137	230	92.1	120.7	150	4-19	14	70	6	25	47.5
DN65	65	200	158	230	104.8	139.7	160	4-19	17	102	6.5	50	76
DN80	80	203	178	265	127	152.4	190	4-19	19	102	8	85	108.4
DN100	100	229	204	290	157.2	190.5	230	4-19	19	102	8	115	198

DRAWING

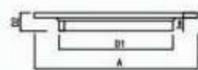


MATERIAL LIST		
ITEM	PART NAME	MATERIAL
1	BODY	CF8M CF8 WCB
2	BALL SEAT	PTFE R-PTFE
3	BALL	SUS316 SUS304
4	BODY GASKET	PTFE
5	CAP	CF8M CF8 WCB
6	BOLT	SUS304
7	NUT	SUS304
8	THRUST WASHER	PTFE
9	V-RING PACKING	PTFE
10	STOP CAP	CF8M CF8
11	STEM	SUS316 SUS304
12	BOLT	SUS304
13	POSITION WASHER	SUS304
14	HANDLE	CF8
15	LOCKING WASHER	SUS301

L-10

L

L



Sanitary stub end

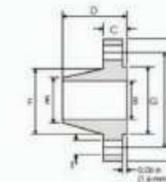
Size	A	D1	D2
10	42	17.2	6
15	47	21.3	6
20	58	26.9	8
25	68	33.7	9
32	78	42.4	10
40	88	48.3	10
50	102	60.3	12
65	122	76.1	12
80	133	86.9	13
100	158	114.3	14
125	184	139.7	15
150	212	168.3	18
200	268	219.1	22
250	320	273	23
300	370	323.9	19
350	430	355.6	21
400	482	406.4	21

Sanitary dished head

Size	A	D1
10	11.5	17.2
15	11.5	21.3
20	11.5	26.9
25	12.5	33.7
32	17	42.4
40	17	48.3
50	20	60.8
65	27	76.1
80	29	88.9
100	32	144.3
125	35	139.7
150	40	168.3
200	50	219.1
250	63	273
300	72	323.9
350	89	355.6
400	98	406.4

FLANGE

Weld Neck Flanges-ANSI B16.5



Class 150lb

Nominal Pipe Size	Flange Data						Raised Face		Drilling Data		Weight Kg/Flange	
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Overall Length	Diameter at weld Bevel	Hub Diameter	Face Diameter	Number of holes	Bolt Hole Diameter		Diameter of Circle of Holes
	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm		In mm	In mm	
1/2	0.840 21.30	3.500 88.90	0.620 15.70	0.440 11.20	1.980 47.80	0.840 21.30	1.190 30.20	1.380 35.00	4	0.620 15.70	2.380 60.45	0.48
3/4	1.050 26.70	3.880 98.60	0.820 20.80	0.500 12.70	2.060 52.30	1.050 26.70	1.500 38.10	1.690 42.90	4	0.620 15.70	2.750 69.85	0.71
1	1.315 33.40	4.250 108.0	1.050 26.70	0.560 14.20	2.190 55.60	1.320 33.50	1.940 49.30	2.000 50.80	4	0.620 15.70	3.120 79.25	1.01
1 1/4	1.660 42.20	4.620 117.3	1.380 35.10	0.620 15.70	2.250 57.15	1.660 42.20	2.310 58.70	2.500 63.50	4	0.620 15.70	3.500 88.90	1.33
1 1/2	1.900 48.30	5.000 127.0	1.610 40.90	0.690 17.50	2.440 62.00	1.900 48.30	2.560 65.00	2.880 73.15	4	0.620 15.70	3.880 98.60	1.72
2	2.375 60.30	6.000 152.4	2.070 52.60	0.750 19.10	2.500 63.50	2.380 60.45	3.060 77.70	3.620 91.90	4	0.750 19.10	4.750 120.7	2.58
2 1/2	2.875 73.00	7.000 177.8	2.470 62.70	0.880 22.4	2.750 69.85	2.880 73.15	3.560 90.40	4.120 104.8	4	0.750 19.10	5.500 139.7	4.11
3	3.500 88.90	7.500 190.5	3.070 78.00	0.940 23.90	3.040 77.15	3.500 88.90	4.250 108.0	5.000 127.0	4	0.750 19.10	6.000 152.4	4.92
3 1/2	4.000 101.6	8.500 215.9	3.550 90.20	0.940 23.90	3.210 81.40	4.000 101.6	4.810 122.2	5.500 139.7	8	0.750 19.10	7.000 177.8	6.08
4	4.500 114.30	9.000 228.6	4.303 102.4	0.940 23.90	3.000 76.20	4.500 114.3	5.310 134.9	6.190 157.2	8	0.750 19.10	7.500 190.5	6.84
5	5.563 141.3	10.00 254.0	5.050 128.3	0.940 23.90	3.500 88.90	5.560 141.2	6.440 163.6	7.310 185.7	8	0.880 22.40	8.500 215.9	8.56
6	6.625 168.3	11.00 279.4	6.070 154.2	1.000 25.40	3.500 88.90	6.630 168.4	7.560 192.0	8.500 215.9	8	0.880 22.40	9.500 241.3	10.6
8	8.625 219.1	13.50 342.9	7.980 202.7	1.120 28.40	4.000 101.6	8.630 219.2	9.690 246.1	10.62 269.7	8	0.880 22.40	11.75 298.5	17.6
10	10.75 273.0	16.00 406.4	10.02 254.5	1.190 30.20	4.000 101.6	10.76 273.0	12.00 304.8	12.75 323.8	12	1.000 25.40	14.25 362.0	24.0
12	12.75 323.8	19.00 482.6	12.00 304.8	1.250 31.75	4.500 114.3	12.75 323.8	14.38 365.3	15.00 381.0	12	1.000 25.40	17.00 431.8	36.5
14	14.00 355.6	21.00 533.4		1.380 35.10	5.000 127.0	14.00 355.6	15.75 400.1	16.25 412.7	12	1.12 28.40	18.75 476.3	48.4
16	16.00 406.4	23.50 596.9		1.440 36.60	5.000 127.0	16.00 406.4	18.00 457.2	18.50 469.9	16	1.120 28.40	21.25 539.8	60.6
18	18.00 457.2	25.00 635.0		1.560 39.60	5.500 139.7	18.00 457.2	19.88 505.0	21.00 533.4	16	1.250 31.75	22.75 577.9	68.3
20	20.00 508.0	27.50 698.5		1.690 42.90	5.690 144.5	20.00 508.0	22.00 558.8	23.00 584.2	20	1.250 31.75	25.00 635.0	84.5
24	24.00 609.6	32.00 812.8		1.880 47.80	6.000 152.4	24.00 609.6	26.12 663.4	27.25 692.1	20	1.380 35.10	29.50 749.3	115

Notes
-Dimension B corresponds to the pipe inside diameter.Values quoted assume 40G/Standard wall thickness.
-Weights are based on manufacturer's data and are approximate.
-Flat face flanges may be provided at full thickness,C,or with raised face removed(the letter is nonstandard.)

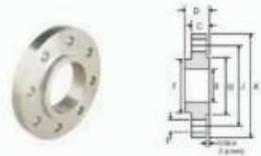
L-11

L-12



FLANGE

Slip On Flanges - ANSI B16.5



Class 150 lb

Nominal Pipe Size	Flange Data										Weight Kg/Piece		
	Pipe		Flange Data				Hub		Raised Face			Drilling Data	
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Overall Length	Hub Diameter	Face Diameter	Number of holes	Bolt Hole Diameter	Diameter of Circle of Holes			
In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm			
1/2	0.840	3.500	0.880	0.440	0.620	1.190	1.380	4	0.620	3.380	0.39		
	21.30	88.90	22.40	11.20	15.70	30.20	35.10		15.70	80.45			
3/4	1.050	3.880	1.090	0.500	0.620	1.500	1.690	4	0.620	2.750	0.56		
	26.70	98.60	27.70	12.70	15.70	38.10	42.90		15.70	69.85			
1	1.315	4.250	1.360	0.560	0.690	1.940	2.000	4	0.620	3.12	0.78		
	33.40	108.0	34.50	14.20	17.50	49.30	50.80		15.70	79.25			
1 1/4	1.660	4.620	1.700	0.620	0.810	2.310	2.500	4	0.620	3.500	1.03		
	42.20	117.3	43.20	15.70	20.60	58.70	63.50		15.70	88.90			
1 1/2	1.900	5.000	1.950	0.690	0.880	2.560	2.880	4	0.620	.880	1.32		
	48.30	127.0	49.50	17.50	22.40	65.00	73.15		15.70	98.60			
2	2.375	6.000	2.440	0.750	1.000	3.060	3.620	4	0.750	4.750	2.09		
	60.30	152.4	62.00	19.10	25.40	77.70	91.90		19.10	120.7			
2 1/2	2.875	7.000	2.940	0.880	1.120	3.560	4.120	4	0.750	5.500	3.28		
	73.00	177.8	74.70	22.40	28.40	90.40	104.6		19.10	139.7			
3	3.500	7.500	3.570	0.940	1.190	4.250	5.000	4	0.750	6.000	3.85		
	88.90	190.5	90.70	23.90	30.20	108.0	127.0		19.10	152.4			
3 1/2	4.000	8.500	4.070	0.940	1.250	4.810	5.500	8	0.750	7.000	4.81		
	101.6	215.9	103.4	23.90	31.75	122.2	139.7		19.10	177.8			
4	4.500	9.000	4.570	0.940	1.310	5.310	6.190	8	0.750	7.500	5.30		
	114.3	228.6	116.1	23.90	33.30	134.9	157.2		19.10	190.5			
5	5.563	10.00	5.660	0.940	1.440	6.440	7.310	8	0.880	8.500	6.07		
	141.3	254.0	143.8	23.90	36.60	163.6	185.7		22.40	215.9			
6	6.625	11.00	6.720	1.000	1.560	7.560	8.500	8	0.880	9.500	7.45		
	168	279.4	221.5	25.40	39.60	192.0	215.9		22.40	241.3			
8	8.625	13.50	8.720	1.120	1.750	9.960	10.62	8	0.880	11.75	12.1		
	219.1	342.9	276.3	28.40	44.50	246.1	269.7		22.40	298.5			
10	10.75	16.00	10.88	1.190	1.940	12.00	12.75	12	1.000	14.25	16.5		
	273.0	406.4	327.1	30.20	49.30	304.8	323.9		25.40	362.0			
12	12.75	19.00	1.250	1.250	2.190	14.38	15.00	12	1.000	17.00	26.2		
	323.8	482.6	327.1	31.75	55.60	365.3	381.0		25.40	431.8			
14	14.00	21.00	14.14	1.380	2.250	15.75	16.25	12	1.120	18.75	34.0		
	355.6	533.4	359.1	35.10	57.15	400.1	412.8		28.40	476.3			
16	16.00	23.50	16.16	1.440	2.500	18.00	18.50	16	1.120	21.25	44.8		
	406.4	596.9	410.5	36.60	63.50	457.2	469.9		28.40	539.8			
18	18.00	25.00	18.18	1.560	2.690	19.88	21.00	16	1.250	22.75	48.9		
	457.2	635.0	461.8	39.60	68.30	505.0	533.4		31.75	577.9			
20	20.00	27.50	20.20	1.690	2.880	22.00	23.00	20	1.250	25.00	61.9		
	508.0	698.5	513.1	42.90	73.15	558.8	548.2		31.75	635.0			
24	24.00	32.00	24.25	1.880	3.250	26.12	27.25	20	1.250	29.50	86.9		
	609.6	812.8	616.0	47.80	82.60	663.4	692.2		31.75	749.3			

Notes
-Weights are based on manufacturer's data and are approximate.
-Flat face flanges may be provided at full thickness, C, or with raised face removed (the latter is non-standard).

L-13

FLANGE

Socket Welding Flanges - ANSI B16.5



Class 150 lb

Nominal Pipe Size	Flange Data										Weight Kg/Piece		
	Pipe		Flange Data				Hub		Raised Face			Drilling Data	
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Overall Length	Socket Diameter	Depth of Socket	Hub Diameter	Face Diameter	NO. of Holes		Bolt Hole Diameter	Diameter of Circle of Holes
In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	
1/2	0.840	3.500	0.820	0.440	0.620	0.880	0.380	1.190	1.380	4	0.620	2.380	0.42
	21.30	88.90	15.70	11.20	15.70	22.40	9.600	30.20	35.10		15.70	60.45	
3/4	1.050	3.880	0.820	0.500	0.620	1.090	0.440	1.500	1.690	4	0.620	2.750	0.59
	26.70	98.60	20.80	12.70	15.70	27.70	11.10	38.10	42.90		15.70	69.85	
1	1.315	4.250	1.060	0.560	0.690	1.360	0.500	1.940	2.000	4	0.620	3.120	0.81
	33.40	108.0	26.70	14.20	17.50	34.50	12.70	49.30	50.80		15.70	79.25	
1 1/4	1.660	4.620	1.380	0.620	0.810	1.700	0.560	2.310	2.500	4	0.620	3.500	1.07
	42.20	117.3	35.10	15.70	20.60	43.20	14.20	58.70	63.50		15.70	88.90	
1 1/2	1.900	5.000	1.610	0.690	0.880	1.950	0.620	2.560	2.880	4	0.620	3.880	1.36
	48.30	127.0	40.90	17.50	22.30	49.50	15.70	65.00	73.15		15.70	98.60	
2	2.375	6.000	2.070	0.750	1.000	2.440	0.690	3.060	3.620	4	0.750	4.750	2.10
	60.30	152.4	52.60	19.10	25.40	62.00	17.70	77.70	91.90		19.10	120.7	
2 1/2	2.875	7.000	2.470	0.880	1.120	2.940	0.750	3.560	4.120	4	0.750	5.500	3.33
	73.00	177.8	62.70	22.40	28.40	74.70	19.00	90.40	104.6		19.10	139.7	
3	3.500	7.500	3.070	0.940	1.190	3.570	0.810	4.250	5.000	4	0.750	6.000	3.90
	88.90	190.5	78.00	23.90	30.20	90.70	20.60	108.0	127.0		19.10	152.4	

Class 300 lb

Nominal Pipe Size	Flange Data										Weight Kg/Piece		
	Pipe		Flange Data				Hub		Raised Face			Drilling Data	
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Overall Length	Socket Diameter	Depth of Socket	Hub Diameter	Face Diameter	NO. of Holes		Bolt Hole Diameter	Diameter of Circle of Holes
In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	
1/2	0.840	3.750	0.620	0.560	0.880	0.880	0.380	1.500	1.380	4	0.620	2.620	0.66
	21.30	95.20	15.70	14.20	22.30	22.40	9.600	38.10	35.10		15.70	66.55	
3/4	1.050	4.620	0.820	0.620	1.000	1.090	0.440	1.880	1.690	4	0.750	3.250	1.15
	26.70	117.3	20.80	15.70	25.40	27.70	11.10	47.70	42.90		19.10	82.50	
1	1.315	4.880	1.060	0.690	1.060	1.360	0.500	2.120	2.000	4	0.750	3.500	1.40
	33.40	123.9	26.70	17.50	26.90	34.50	12.70	53.80	63.50		19.10	88.90	
1 1/4	1.660	5.250	1.380	0.750	1.060	1.700	0.560	2.500	2.500	4	0.750	3.880	1.75
	42.20	133.3	35.10	19.00	26.90	43.20	14.20	63.50	63.50		19.10	98.60	
1 1/2	1.900	6.120	1.610	0.810	1.190	1.950	0.620	2.750	2.880	4	0.880	4.500	2.55
	48.30	155.4	40.90	20.60	30.20	49.50	15.70	69.85	73.15		22.30	114.3	
2	2.375	6.500	2.070	0.880	1.310	2.440	0.690	3.310	3.620	4	0.750	5.000	2.93
	60.30	165.1	52.60	22.30	33.20	62.00	17.70	84.00	91.90		19.10	127.0	
2 1/2	2.875	7.500	2.470	1.000	1.500	2.940	0.750	3.940	4.120	4	0.880	5.880	4.40
	73.00	190.5	62.70	25.40	38.10	74.70	19.00	100.0	104.6		22.30	149.3	

Notes
-Dimension B corresponds to the pipe inside diameter. Values quoted assume 40S/Standard wall thickness.
-Weights are based on manufacturer's data and are approximate.

L-14



FLANGE

Threaded Flanges -ANSI B16.5



Class 150 lb

Nominal Pipe Size	Pipe		Flange Data			Hub	Raised Face	Drilling Data		Weight Kg/Flange	
	A	C	D	E	F	G	H	I	J		
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Overall Length	Hub Diameter	Face Diameter	Number of holes	Bolt Hole Diameter		Diameter of Circle of Holes
1/2	0.840	3.500	0.440	0.620	0.620	1.190	1.380	4	0.620	2.380	0.39
	21.30	88.90	11.20	15.70	15.70	30.20	35.10		15.70	60.45	
3/4	1.050	3.880	0.500	0.620	0.620	1.500	1.690	4	0.620	2.750	0.56
	26.70	98.60	12.70	15.70	15.70	38.10	42.90		15.70	69.85	
1	1.315	4.250	0.560	0.690	0.690	1.940	2.000	4	0.620	3.12	0.78
	33.40	108.0	14.20	17.50	17.50	49.30	50.80		15.70	79.25	
1 1/4	1.660	4.620	0.620	0.810	0.810	2.310	2.500	4	0.620	3.500	1.03
	42.20	117.3	15.70	20.60	20.60	58.70	63.50		15.70	88.90	
1 1/2	1.900	5.000	0.690	0.880	0.880	2.560	2.880	4	0.620	.880	1.32
	48.30	127.0	17.50	22.40	22.40	65.00	73.15		15.70	98.60	
2	2.375	6.000	0.750	1.000	1.000	3.060	3.620	4	0.750	4.750	2.06
	60.30	152.4	19.10	25.40	25.40	77.70	91.90		19.10	120.7	
2 1/2	2.875	7.000	0.880	1.120	1.120	3.560	4.120	4	0.750	5.500	3.28
	73.00	177.8	22.40	28.40	28.40	90.40	104.6		19.10	139.7	
3	3.500	7.500	0.940	1.190	1.190	4.250	5.000	4	0.750	6.000	3.85
	88.90	190.5	23.90	30.20	30.20	108.0	127.0		19.10	152.4	
3 1/2	4.000	8.500	0.940	1.250	1.250	4.810	5.500	8	0.750	7.000	4.81
	101.6	215.9	23.90	31.75	31.75	122.2	139.7		19.10	177.8	
4	4.500	9.000	0.940	1.310	1.310	5.310	6.190	8	0.750	7.500	5.30
	114.3	228.6	23.90	33.30	33.30	134.9	157.2		19.10	190.5	
5	5.563	10.00	0.940	1.440	1.440	6.440	7.310	8	0.880	8.500	6.07
	141.3	254.0	23.90	36.60	36.60	163.6	185.7		22.40	215.9	
6	6.625	11.00	1.000	1.560	1.560	7.560	8.500	8	0.880	9.500	7.45
	16.8	279.4	25.40	39.60	39.60	192.0	215.9		22.40	241.3	
8	8.625	13.50	1.120	1.750	1.750	9.960	10.62	8	0.880	11.75	12.1
	219.1	342.9	28.40	44.50	44.50	246.1	269.7		22.40	298.5	
10	10.75	16.00	1.190	1.940	1.940	12.00	12.75	12	1.000	14.25	16.5
	273.0	406.4	30.20	49.30	49.30	304.8	323.9		25.40	362.0	
12	12.75	19.00	1.250	2.100	2.100	14.38	15.00	12	1.000	17.00	26.2
	323.8	482.6	31.75	55.60	55.60	365.3	381.0		25.40	431.8	
14	14.00	21.00	1.380	2.250	2.250	15.75	16.25	12	1.120	18.75	34.0
	355.6	533.4	35.10	57.15	57.15	400.1	412.8		28.40	476.3	
16	16.00	23.50	1.440	2.500	2.500	18.00	18.50	16	1.120	21.25	44.8
	406.4	596.9	36.60	63.50	63.50	457.2	469.9		28.40	539.8	
18	18.00	25.00	1.560	2.690	2.690	19.88	21.00	16	1.250	22.75	48.9
	457.2	635.0	39.60	68.30	68.30	505.0	533.4		31.75	577.9	
20	20.00	27.50	1.690	2.880	2.880	22.00	23.00	20	1.250	25.00	61.9
	508.0	698.5	42.90	73.15	73.15	558.8	548.2		31.75	635.0	
24	24.00	32.00	1.880	3.250	3.250	26.12	27.25	20	1.250	29.50	86.9
	609.6	812.8	47.90	82.60	82.60	663.4	692.2		31.75	749.3	

Notes
 -The thread conforms to ASME B1.20.1 NTP threads as described in section 10.(The only exceptions are small male and female plain face threaded flanges which use NPSL recurrent threads.)
 -Class 150 threaded flanges are made without a counterbore.Threads are chamfered to the major diameter(approx.)at an angle of 45° (approx.) at the back of the flange.
 -Weights are based on manufacturer's data and are approximate.

L-15

FLANGE

Blind Flanges -ANSI B16.5



Class 150 lb

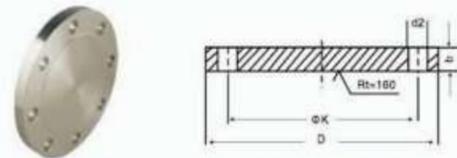
Nominal Pipe Size	Pipe		Flange Data		Raised Face	Drilling Data		Weight Kg/Flange
	A	C	G	H	I	J		
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Number of holes	Hub Diameter	Face Diameter	
1/2	0.840	3.500	0.440	1.380	4	0.620	2.380	0.39
	21.30	88.90	11.20	35.10		15.70	60.45	
3/4	1.050	3.880	0.500	1.690	4	0.620	2.750	0.56
	26.70	98.60	12.70	42.90		15.70	69.85	
1	1.315	4.250	0.560	2.000	4	0.620	3.12	0.78
	33.40	108.0	14.20	50.80		15.70	79.25	
1 1/4	1.660	4.620	0.620	2.500	4	0.620	3.500	1.03
	42.20	117.3	15.70	63.50		15.70	88.90	
1 1/2	1.900	5.000	0.690	2.880	4	0.620	.880	1.32
	48.30	127.0	17.50	73.15		15.70	98.60	
2	2.375	6.000	0.750	3.620	4	0.750	4.750	2.06
	60.30	152.4	19.10	91.90		19.10	120.7	
2 1/2	2.875	7.000	0.880	4.120	4	0.750	5.500	3.28
	73.00	177.8	22.40	104.6		19.10	139.7	
3	3.500	7.500	0.940	5.000	4	0.750	6.000	3.85
	88.90	190.5	23.90	127.0		19.10	152.4	
3 1/2	4.000	8.500	0.940	5.500	8	0.750	7.000	4.81
	101.6	215.9	23.90	139.7		19.10	177.8	
4	4.500	9.000	0.940	6.190	8	0.750	7.500	5.30
	114.3	228.6	23.90	157.2		19.10	190.5	
5	5.563	10.00	0.940	7.310	8	0.880	8.500	6.07
	141.3	254.0	23.90	185.7		22.40	215.9	
6	6.625	11.00	1.000	8.500	8	0.880	9.500	7.45
	16.8	279.4	25.40	215.9		22.40	241.3	
8	8.625	13.50	1.120	10.62	8	0.880	11.75	12.1
	219.1	342.9	28.40	269.7		22.40	298.5	
10	10.75	16.00	1.190	12.75	12	1.000	14.25	16.5
	273.0	406.4	30.20	323.9		25.40	362.0	
12	12.75	19.00	1.250	15.00	12	1.000	17.00	26.2
	323.8	482.6	31.75	381.0		25.40	431.8	
14	14.00	21.00	1.380	16.25	12	1.120	18.75	34.0
	355.6	533.4	35.10	412.8		28.40	476.3	
16	16.00	23.50	1.440	18.50	16	1.120	21.25	44.8
	406.4	596.9	36.60	469.9		28.40	539.8	
18	18.00	25.00	1.560	21.00	16	1.250	22.75	48.9
	457.2	635.0	39.60	533.4		31.75	577.9	
20	20.00	27.50	1.690	23.00	20	1.250	25.00	61.9
	508.0	698.5	42.90	548.2		31.75	635.0	
24	24.00	32.00	1.880	27.25	20	1.380	29.50	86.9
	609.6	812.8	47.90	692.2		35.10	749.3	

Notes
 -Weights are based on manufacturer's data and are approximate.
 -Flat face flanges may be provided at full thickness,C, or with raised face removed(the latter is nonstandard).

L-16

FLANGE

DIN2527 Blind Flange
Rated Pressure 6



Diámetro Nominal Rated Diameter Nennweite	Brida/ Flange/ Flansch			d ₂ max.	Tornillos/Screws/Schrauben			Peso de una brida/Weight of a flange/Gewicht eines Flansches(7.85 kg/dm ³)		
	D	b	K		Numero/ Number/ Anzahl	Rosca/ Thread/ Gewinde	d ₁	Forma B/ Shape B/ Form B	Forma T/ Shape T/ Form T	Kg
10	75	12	50						0.38	
15	80	12	55						0.44	
20	90	14	65						0.65	
25	100	14	75						0.82	
32	120	14	90						1.17	
40	130	14	100						1.39	
50	140	14	110						1.62	
65	160	14	130	55	4	M12	14		2.44	2.48
80	190	16	150	70					3.43	3.49
100	210	16	170	90					4.76	4.86
125	240	18	200	115					6.11	6.28
150	265	18	225	140	8	M16	18		7.51	7.75
(175)	295	20	255	165					10.4	10.7
200	320	20	280	190					12.3	12.7
250	375	22	335	235					18.3	19
300	440	22	395	285	12				25.3	26.3
350	490	22	445	330					31.6	32.9
400	540	22	495	380	16	M20	22		38.4	40.2
500	645	24	600	475	20				60.4	63.2

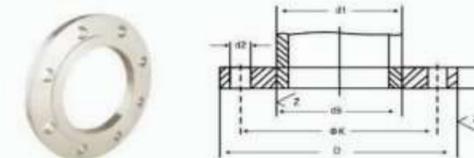
Bridas ciegas/Blind Flanges/blind flansche
presión nominal 10./Rated pressure 10./Nenndruck 10 Medidas en
milímetros/Dimensions in mm/Mass in mm.

Diámetro Nominal Rated Diameter Nennweite	Brida/ Flange/ Flansch			d ₂ max.	Tornillos/Screws/Schrauben			Peso de una brida/Weight of a flange/Gewicht eines Flansches(7.85 kg/dm ³)		
	D	b	K		Numero/ Number/ Anzahl	Rosca/ Thread/ Gewinde	d ₁	Forma B/ Shape B/ Form B	Forma T/ Shape T/ Form T	Kg
10a175	Vasee presión nominal 16									
10to175	See rated pressure 16									
10bis175	Für Nennweite von 10 bis 175 sind Blindflansche des Nenndruckes 16 zu verwenden									
200	340	24	295	190	8				16.5	16.9
250	395	26	350	235					24	24.7
300	445	26	400	285	12	M20	22		30.9	31.9
350	505	26	460	330					40.6	41.9
400	565	26	515	380	16				49.4	51.2
500	670	28	625	475	20	M24	26		68.2	70.5

L-17

FLANGE

DIN2573 Plate Flange
Rated Pressure 6

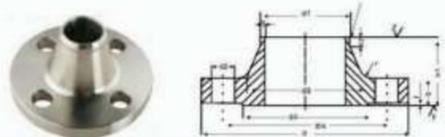


Diámetro Nominal Rated Diameter Nennweite	Tubo/Pipe/Rohr-Anschiußmaße			D	b	c	K	Tornillos/Screws/Schrauben			Peso de una brida/Weight of a flange/ Gewicht eines Flansches (7.85 Kg/dm ³)
	d1		d5					Numero/ Number/ Anzahl	Rosca/ Thread/ Gewinde	d2	
	ISO Serie 1	DIN Serie 2									
10	-	14	14.5	75	12	5	50	4	M10	11	0.363
	17.2	-	17.7								
15	-	20	21	80	12	5	55	4	M10	11	0.41
	21.3	-	22								
20	-	25	26	90	14	5	65	4	M10	11	0.6
	26.9	-	27.6								
25	-	30	31	100	14	5	75	4	M10	11	0.74
	33.7	-	34.4								
32	-	38	39	120	16	5	90	4	M12	14	1.19
	42.4	-	43.1								
40	-	44.5	45.5	130	16	5	100	4	M12	14	1.39
	48.3	-	49								
50	-	57	58.1	140	16	6	110	4	M12	14	1.53
	60.3	-	61.1								
65	76.1	-	77.1	160	16	6	130	4	M12	14	1.89
80	88.9	-	90.3	190	18	7	150	4	M16	14	2.98
	-	108	109.6								
100	114.3	-	115.9	210	18	7	170	4	M16	18	3.46
	-	133	134.8								
125	139.7	-	141.6	240	20	7	200	8	M16	18	4.6
	-	159	161.1								
150	168.3	-	170.5	265	20	7	225	8	M16	18	5.22
200	219.1	-	221.8	320	22	7	280	8	M16	18	7..15
250	-	267	270.2	375	24	7	335	12	M16	18	9.61
	273	-	276.2								
300	323.9	-	327.6	440	24	7	295	12	M20	22	12.6
350	355.6	-	359.7	490	26	7	445	12	M20	22	15.6
	-	398	372.2								
450	406.4	-	411	540	28	7	495	16	M20	22	18.4
	-	419	423.7								
(450)*	457	-	462.5	595	30	7	550	16	M20	22	21.4
500	508	-	513.6	645	30	7	600	20	M20	22	24.6

L-18

FLANGE

DIN2631 Welding neck flange



Tubo/Pipe/Rohr-Anschluß Diameter Nominal Diameter Nominal	d1		Brida/Flange/Flansch				Cuello/Neck/Ansatz				Resalto/ Raised face/ Dichtfläche		Tornillos/Screws/Schrauben		Peso de una brida/ Weight of a flange/ Gewicht eines Flansches(7.85Kg/ dm ³)	
	ISO Serie 1 Reihe 1	DIN Serie 2 Reihe 2	D	b	K	h1	d3	a	r	h2	d4	1	Rosca/ Thread/ Gewinde	d2	Kg	
10	14	17.2	75	12	50	28	22	1.8	4	8	35	2	4	M10	11	0.335
15	20	21.3	80	12	55	30	28	2	4	6	40	2	4	M10	11	0.392
20	25	26.9	90	14	65	32	35	2.3	4	6	50	2	4	M10	11	0.592
25	30	33.7	100	14	75	35	40	2.6	4	6	60	2	4	M10	11	0.747
32	38	42.4	120	14	90	35	50	2.6	6	6	70	2	4	M12	14	1.05
40	44.5	48.3	130	14	100	38	58	2.6	6	7	80	3	4	M12	14	1.18
50	57	60.3	140	14	110	38	70	2.9	6	8	90	3	4	M12	14	1.34
65	76.1	88.9	160	14	130	38	88	2.9	6	9	110	3	4	M12	14	1.67
80	108	119.1	190	16	150	42	102	3.2	8	10	128	3	4	M16	18	2.71
100	133	149.1	210	16	170	45	122	3.6	8	10	148	3	4	M16	18	3.24
125	159	178.3	240	18	200	48	140	4	8	10	178	3	8	M16	18	4.49
150	188.3	210.1	265	18	225	48	172	4.5	10	12	202	3	8	M16	18	5.15
200	254	273	320	20	280	55	236	5.9	10	15	258	3	8	M16	18	7.78
250	282	323.9	375	22	335	60	282	6.3	12	15	312	3	12	M16	18	10.8
300	355.6	365.6	440	22	395	62	342	7.1	12	15	365	4	12	M20	22	14
350	388	405.4	490	22	445	62	385	7.1	12	15	415	4	16	M20	22	18.5
400	419	441	540	22	495	65	438	7.1	12	15	465	4	16	M20	22	21.2
500	508	519	645	24	600	68	538	7.1	12	15	570	4	20	M20	22	28.6
600	610	611	755	24	705	70	640	7.1	12	16	670	5	20	M24	26	31.5
700	711	711	860	24	810	70	740	7.1	12	16	775	5	24	M24	26	37.4
800	813	813	875	24	820	70	842	7.1	12	16	880	5	24	M27	30	46.1
900	914	914	1075	26	1020	70	942	7.1	12	16	980	5	24	M27	30	55.6
1000	1018	1018	1175	26	1120	70	1045	7.1	12	16	1080	5	28	M27	30	61.9
1200	1220	1220	1405	28	1340	90	1248	8	16	16	1295	5	32	M30	33	100
1400	1420	1420	1630	32	1560	90	1452	8	16	16	1510	5	36	M33	36	149
1600	1620	1620	1830	34	1760	90	1655	9	16	16	1710	5	40	M33	36	180
1800	1820	1820	2045	36	1970	100	1855	10	16	16	1920	5	44	M36	39	225
2000	2020	2020	2266	38	2190	110	2068	11	16	16	2125	5	48	M39	42	266
2200	2220	2220	2475	42	2390	115	2260	12	18	25	2335	6	52	M39	42	361
2400	2420	2420	2685	44	2600	125	2482	13	18	25	2545	6	56	M39	42	415
2600	2620	2620	2905	46	2810	130	2665	14	18	25	2750	6	60	M45	48	530
2800	2820	2820	3115	48	3020	135	2885	15	18	30	2960	6	64	M45	48	643
3000	3020	3020	3315	50	3220	140	3068	16	18	30	3160	6	68	M45	48	777
3200	3220	3220	3525	54	3430	150	3272	16	20	30	3370	6	72	M45	48	851
3400	3420	3420	3735	58	3640	160	3476	18	20	30	3580	6	76	M45	48	925
3600	3620	3620	3945	62	3850	170	3680	18	20	30	3790	6	80	M45	48	1000

L-19

FLANGE

Slip On Flanges-BS 4504



DN	PN	A mm	B mm	C mm	D mm	E mm	F mm	DN	PN	A mm	B mm	C mm	D mm	E mm	F mm
10	6	75	18.0	12	20	25	3	200	6	320	221.5	20	44	240	8
15	10&16	90	22	14	20	30	3	250	10&16	340	276.5	24	44	246	10
20	25&40	90	16	22	30	30	3	300	25	360	327.5	30	52	258	10
25	6	90	27.5	14	24	40	4	350	6	375	359.5	22	44	295	10
32	10&16	105	18	26	45	45	4	400	10	405	369.5	26	46	298	10
40	25&40	105	18	26	45	45	4	450	25	425	411.0	32	60	310	10
50	6	100	34.5	14	24	50	4	500	6	440	462.0	22	44	355	10
65	10&16	115	49.5	16	24	52	4	550	10	445	482.0	26	46	350	10
80	25&40	115	18	28	52	52	5	600	16	460	513.5	28	46	350	10
100	6	120	43.5	14	26	60	5	650	25	485	568.0	34	67	364	10
150	10&16	140	49.5	16	26	60	5	700	40	515	613.5	42	67	380	10
200	25&40	140	18	30	60	60	5	750	10	505	659.5	26	53	400	10
250	6	150	49.5	16	26	70	5	800	16	520	713.5	30	57	400	10
300	10&16	150	18	32	70	70	5	850	25	555	768.0	38	72	418	10
350	6	160	61.5	14	28	80	5	900	40	580	823.0	46	72	424	10
400	10&16	165	61.5	18	28	84	5	950	10	565	878.0	26	57	456	10
450	25&40	165	20	34	84	84	5	1000	16	580	933.0	32	63	456	10
500	6	180	77.5	14	32	100	6	1050	25	620	988.0	40	78	472	10
600	10&16	185	77.5	18	32	104	6	1100	40	660	1043.0	50	78	478	10
700	25&40	185	22	38	104	104	6	1150	10	615	1098.0	28	63	502	12
800	6	190	90.5	16	34	110	6	1200	18	640	1153.0	34	88	502	12
900	10&16	200	90.5	20	34	118	6	1250	25	670	1208.0	42	84	520	12
1000	25&40	200	24	40	118	118	6	1300	40	685	1263.0	50	84	522	12
1200	6	210	116.0	16	40	130	6	1350	10	670	1318.0	28	87	559	12
1500	10&16	220	116.0	20	40	140	6	1400	16	715	1373.0	34	73	559	12
1600	25&40	235	24	44	145	145	6	1450	25	730	1428.0	44	90	580	12
1800	6	240	141.5	18	44	160	6	1500	40	755	1483.0	52	90	576	12
2000	10&16	250	141.5	22	44	168	6	1550	10	780	1538.0	28	75	658	12
2200	25&40	270	26	48	170	170	6	1600	18	840	1593.0	36	83	658	12
2400	6	265	170.5	18	44	185	8	1650	25	845	1648.0	48	100	684	12
2600	10&16	285	170.5	22	44	195	8	1700	40	890	1703.0	60	100	686	12

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FLANGE

Plate Flanges-BS 4504



DN	PN	A mm	B mm	C mm
10	2.586	75	12	16.0
	10&16	90	14	
	25&40	90	14	
15	2.586	80	12	22
	10&16	95	14	
	25&40	95	14	
20	2.586	90	14	27.5
	10&16	105	16	
	25&40	105	16	
25	2.586	100	14	34.5
	10&16	115	16	
	25&40	115	16	
32	2.586	120	16	43.5
	10&16	140	18	
	25&40	140	18	
40	2.586	130	18	40.5
	10&16	150	18	
	25&40	150	18	
50	2.586	140	16	61.5
	10&16	165	20	
	25&40	165	20	
65	2.586	160	16	77.5
	10&16	185	20	
	25&40	185	22	
80	2.586	190	18	90.5
	10&16	200	20	
	25&40	200	24	
100	2.586	210	18	116.0
	10&16	220	22	
	25&40	235	26	
125	2.586	240	20	141.5
	10&16	250	22	
	25&40	270	28	
150	2.586	265	20	170.5
	10&16	285	24	
	25&40	300	30	
200	2.586	320	22	221.5
	10&16	340	24	
	25	360	32	
250	40	375	36	276.5
	2.586	375	24	
	10	395	26	
40	16	405	29	276.5
	25	420	32	
	40	440	36	

DN	PN	A mm	B mm	C mm
300	2.586	440	24	327.5
	10	445	26	
	16	460	32	
	25	485	38	
350	40	515	48	359.5
	2.586	490	26	
	10	505	28	
	16	520	35	
400	25	555	42	411.0
	40	580	54	
	2.586	540	28	
	10	565	32	
450	16	580	38	462.0
	25	620	46	
	40	660	60	
	2.586	595	30	
500	10	615	36	513.5
	16	640	42	
	25	670	50	
	40	685	68	
600	2.586	645	39	616.5
	10	670	38	
	16	715	46	
	25	730	56	
700	40	755	72	To be specified by Purchaser
	2.586	755	32	
	10	780	42	
	16	840	52	
800	25	845	68	To be specified by Purchaser
	40	890	84	
	2.5	890	38	
	2.5	975	38	
900	2.5	1075	40	To be specified by Purchaser
	2.5	1175	42	
	2.5	1375	44	
	2.5	1575	48	
1000	2.5	1790	51	To be specified by Purchaser
	2.5	1990	54	
	2.5	2190	58	
	2.5	2190	58	

Notes
Dimension B is the flange thickness with or without a raised face.

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Sanitary Pipe

Summarize:

Produce sanitary welded pipe and seamless pipe with DIN11850, 3A, SMS3008, ISO1127, BS4825-1, ASME GB/T 17395 standards, and polished as client's requirements.

HOPE MACHINERY provide 3.1B certification of EN10204 for all the steel material.



Technical data

Standard	DIN11850, 3A, SMS3008, ISO1127, BS4825-1, ASME BPE, GB/T 17395
Size	1"-8" DN10-DN200 17.2-168.3
Steel material	304, 304L, 316, 316L
Surface qualities	1) 180 Grit
	2) 240 Grit
	3) 320 Grit
	4) 420 Grit
	5) Unpolished

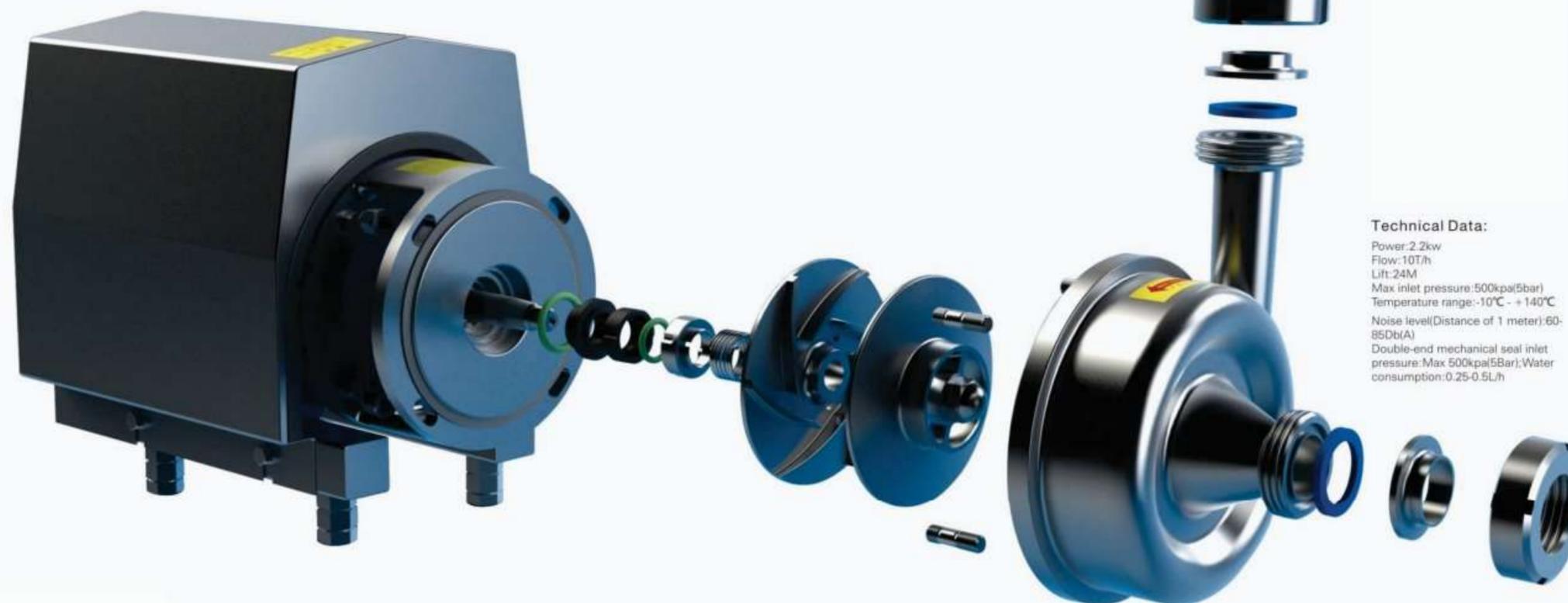
International general standard and measurement of sanitary pipe and fittings

DN	SIZE	DIN 11850 Series 0		DIN 11850 Series 1		DIN 11850 Series 2		DIN 11850 Series 3		SMS		DS		3A/BPE		ISO 1127 Series 1		BS 4825	
		OD	T	OD	T	OD	T	OD	T	OD	T	OD	T	OD	T	OD	T	OD	T
DN10	3/8"	12	1.5	12	1	13	1.5	14	2							17.2	1.6		
DN15	1/2"	18	1.5	18	1	19	1.5	20	2					12.7	1.65	21.3	1.6		
DN20	3/4"	22	1.5	22	1	23	1.5	24	2					19.05	1.65	26.9	1.6		
DN25	1"	28	1.5	28	1	29	1.5	30	2	25	1.25	25.4	1.5	25.4	1.65	33.7	2	25.4	1.6
DN32	1 1/4"	34	1.5	34	1	35	1.5	36	2	32	1.25	31.75	1.5			42.4	2		
DN40	1 1/2"	40	1.5	40	1	41	1.5	42	2	38	1.25	38.1	1.5	38.1	1.65	48.3	2	38.1	1.6
DN50	2"	52	1.5	52	1	53	1.5	54	2	51	1.25	50.8	1.5	50.8	1.65	60.3	2	50.8	1.6
DN65	2 1/2"					70	2			63.5	1.5	63.5	1.5	63.5	1.65			63.5	1.6
DN80	3"					85	2			76.1	1.6	76.2	2.0	76.2	1.65	76.1	2.3	76.2	1.6
	3 1/2"															88.9	2.3		
DN100	4"					104	2			101.6	2	101.6	2.0	101.6	2.11	114.3	2.6	101.6	2
DN125	5"					129	2							127	2.11	139.7	2.6		
DN150	6"					154	2							152.4	2.77	168.3	2.6		

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Centrifugal Pumps



Technical Data:

Power: 2.2kw
Flow: 10T/h
Lift: 24M
Max inlet pressure: 500kpa(5bar)
Temperature range: -10°C - +140°C
Noise level(Distance of 1 meter): 60-85Db(A)
Double-end mechanical seal inlet pressure: Max 500kpa(5Bar); Water consumption: 0.25-0.5L/h

Design Standards:

The basic components of centrifugal pump included: a standard motor, spindle, expansion couplings, converters, backboard, impeller, pump case and shaft seal.

centrifugal pumps for sanitary applications have stainless steel case shields for the protection of the Mazda, and each pump unit equipped with a complete set of four stainless steel support can be adjustable feet.

centrifugal pumps special design of amplifying outlet and advanced impeller allows smooth flow and meets the minimum NPSH requirements (minimum requirements can be reduced NPSH cavitation phenomena occur). This product can be cleaned by CIP or by hand. It also has a cleanable seal.

Material:

steel part: 304/316L
Seal: FPDm

Motor:

With a basic flange mater, according to IEC metric standard, when the Voltage frequency 50/60Hz, two electrodes is 3000/3600rpm

Frequency, Voltage and Power

50HZ, 220-240V/380-420V
≤4KW(Recommended)

60HZ, 250-280V/440-480VY ≤6KW



Application:

Centrifugal pump is an efficient and economical pump Which due to not only meet the requirements of the sanitary gentte handing but also, with its chemical stability, it is applies to most fieds of the sanitary industry.

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