

01



SANITARY PIPE FITTING

Sanitary

Sanitary Pipe Fitting

- **Elbow**
 - SMS
 - DIN
 - 3A
- **Tee**
 - SMS
 - DIN
 - 3A
- **Reducer**
 - SMS
 - DIN
 - 3A

02



FERRULE / UNION / PIPE HOLDER

Ferrule

- End Cap
- Ferrule
- Clamp
- Ferrule Gasket

Union

- SMS Union
- DIN Union
- Hose Coupling

Pipe Holder

- SMS
- DIN
- 3A

I-line Fitting

Contents

03



SANITARY VALVE

Pneumatic Actuator
Butterfly Valve
Check Valve
Sight Glasses

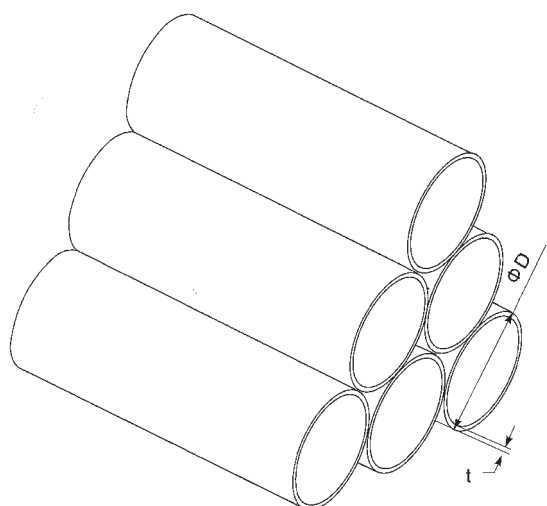


01. SANITARY PIPE FITTING



01



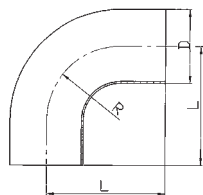


SMS				3A		
Size	D	t (mm)		Size	D	t (mm)
		1	2			
25	25	1.25	1.5	1/2"	12.7	1.65
32	32	1.25	1.5	3/4"	19	1.65
38	38	1.25	1.5	1"	25.4	1.65
51	51	1.25	1.5	1 1/2"	38.1	1.65
63.5	63.5	1.5	2.0	2"	50.8	1.65
76	76	1.6	2.0	2 1/4"	63.5	1.65
89	89	2.0	2.0	3"	76.2	1.65
101.6	101.6	2.0	2.0	4"	101.6	2.1
				6"	152.4	2.8
				8"	203.2	2.8
				10"	254	3.4
				12"	305	3.4

DIN11850				
Size	Dxt	Dxt	Dxt	Dxt
DN10	12x1.0	13x1.5	14x2.0	12x1.5
DN15	18x1.0	19x1.5	20x2.0	18x1.5
DN20	22x1.0	23x1.5	24x2.0	22x1.5
DN25	28x1.0	29x1.5	30x2.0	28x1.5
DN32	34x1.0	35x1.5	36x2.0	34x1.5
DN40	40x1.0	41x1.5	42x2.0	40x1.5
DN50	52x1.0	53x1.5	54x2.0	52x1.5
DN65	70x2.0	70x2.0	70x2.0	70x2.0
DN80	85x2.0	85x2.0	85x2.0	85x2.0
DN100	104x2.0	104x2.0	104x2.0	104x2.0
DN125	129x2.0	129x2.0	129x2.0	129x2.0
DN150	154x2.0	154x2.0	154x2.0	154x2.0
DN200	204x2.0	204x2.0	204x2.0	204x2.0

Elbow

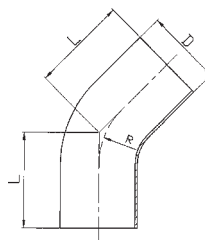
40017



SMS Welded Type Elbow (90°)
With Straight End

Size	D	L	R
1"	25	55	25
1 1/4"	32	64	32
1 1/2"	38	70	38
2"	51	82	51
2 1/2"	63.5	105	63.5
3"	76	110	76
4"	101.6	150	150

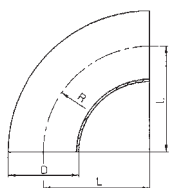
40023



SMS Welded Elbow 45°

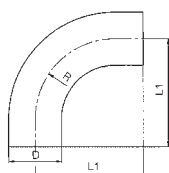
Size	D	L	R
1"	25	45	25
1 1/4"	32	53.3	32
1 1/2"	38	56.7	38
2"	51	63.3	51
2 1/2"	63.5	80.8	63.5
3"	76	82	76
4"	101.6	108.9	150

40010



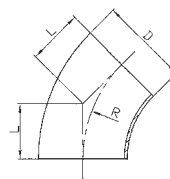
Short type

40011



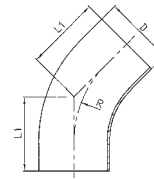
Long type

40013



Short type

40014



Long type

3A Welded Elbow 90°

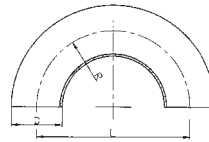
Size	D	L	R	L1
1/2"	12.7	19.1	19.1	38
3/4"	19.1	28.5	28.5	38
1"	25.4	38.1	38.1	52.4
1 1/4"	31.8	47.7	47.7	69.7
1 1/2"	38.1	57.2	57.2	74.6
2"	50.8	76.2	76.2	103.2
2 1/2"	63.5	95.3	95.3	131.8
3"	76.2	114.3	114.3	160.3
4"	101.6	152.4	152.4	211.1
6"	152.4	228.6	228.6	280

3A Welded Elbow 45°

Size	D	L	R	L1
1/2"	12.7	7.9	19.1	19.3
3/4"	19.1	11.8	28.5	19.3
1"	25.4	15.8	38.1	30.1
1 1/4"	31.8	19.8	47.7	41.3
1 1/2"	38.1	23.8	57.2	41.3
2"	50.8	31.8	76.2	58.8
2 1/2"	63.5	39.7	95.3	76.2
3"	76.2	47.6	114.3	93.7
4"	101.6	63.5	152.4	122.2
6"	152.4	94.7	228.6	158.8



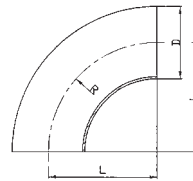
40016



3A Welded Bend 180°

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

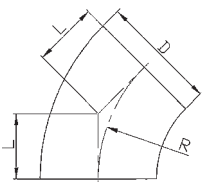
40001



DIN Welded Elbow 90°

Size	D	L	R
DN10	13	26	26
DN15	18	35	35
DN20	22	40	40
DN25	28	50	50
DN32	34	55	55
DN40	40	60	60
DN50	52	70	70
DN65	70	80	80
DN80	85	90	90
DN100	104	100	100
DN125	129	187	187
DN150	154	225	225
DN200	204	300	300

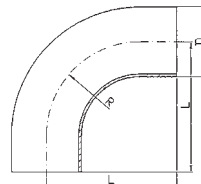
40007



DIN Welded Elbow 45°

Size	D	L	R
DN10	13	10.7	26
DN15	18	14.5	35
DN20	22	16.5	40
DN25	28	20.7	50
DN32	34	22.8	55
DN40	40	24.8	60
DN50	52	29	70
DN65	70	33.2	80
DN80	85	37.3	90
DN100	104	41.5	100
DN125	129	77.5	187
DN150	154	93.2	225

40002



DIN Welded Elbow 90° With Straight End

Size	D	L	R
DN10	13	40	26
DN15	18	47	35
DN20	22	52	40
DN25	28	70	50
DN32	34	78	55
DN40	40	85	60
DN50	52	97	70
DN65	70	110	80
DN80	85	118	90
DN100	104	140	100
DN125	129	227	187
DN150	154	265	225

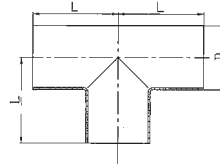
Tee



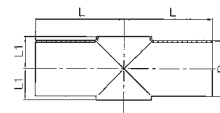
SMS Long Type Welded Tee/ SMS Welded Cross

Size	D	L
1"	25	55
1 1/4"	32	64
1 1/2"	38	70
2"	51	82
2 1/2"	63.5	105
3"	76	110
4"	101.6	150

40047



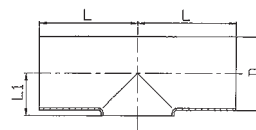
40059



SMS Short Type Welding Tee

Size	D	L	L1
1"	25	55	14.5
1 1/4"	32	64	19.5
1 1/2"	38	70	21.5
2"	51	82	29.5
2 1/2"	63.5	105	36
3"	76	110	43
4"	101.6	150	57

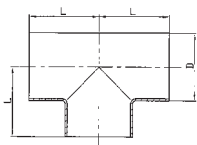
40046



3A Welded Tee & Cross

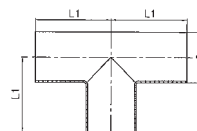
Size	D	L	L1
1/2"	12.7	38	38
3/4"	19.1	38	38
1"	25.4	28.5	47.6
1 1/4"	31.8	35	55
1 1/2"	38.1	42	57.2
2"	50.8	52.3	76.2
2 1/2"	63.5	59.5	76.2
3"	76.2	65.9	82.6
4"	101.6	87.4	98.4
6"	152.4	127	127

40043



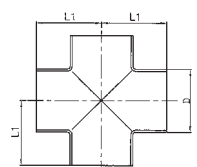
Short type

40044



Long type

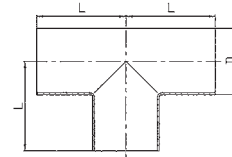
40061



DIN Welded Tee & Cross

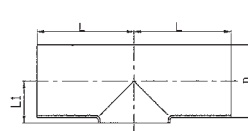
Size	D	L	L1
DN10	13	26	7.5
DN15	18	35	10.5
DN20	22	40	12.5
DN25	28	50	16
DN32	34	55	19.5
DN40	40	60	22.5
DN50	52	70	30
DN65	70	80	39.5
DN80	85	90	47.5
DN100	104	100	58
DN125	129	187	70.5
DN150	154	225	83

40038



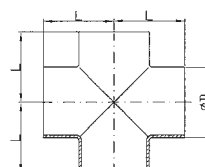
Short type

40037



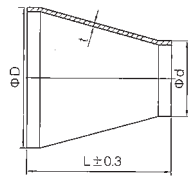
Long type

40057

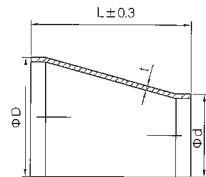


Reducer

40071

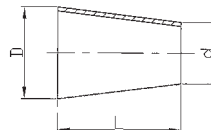


Concentric Reducer

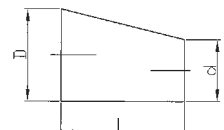


Eccentric Reducer

40069



Concentric Reducer



Eccentric Reducer

SMS Welded Reducer

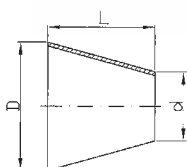
Size	D	d	L
0.75"/0.5"	19.1 ± 0.5	12.7 ± 0.5	28
1"/0.5"	25 ± 0.5	12.7 ± 0.5	30
1"/0.75"	25 ± 0.5	19.1 ± 0.5	30
1.25"/1"	32 ± 0.5	25 ± 0.5	33
1.5"/1"	38 ± 0.5	25 ± 0.5	39
1.5"/1.25"	38 ± 0.5	32 ± 0.5	39
2"/1"	51 ± 0.5	25 ± 0.5	57
2"/1.25"	51 ± 0.5	32 ± 0.5	57
2"/1.5"	51 ± 0.5	38 ± 0.5	39
2.5"/1"	63.5 ± 0.5	25 ± 0.5	57
2.5"/1.25"	63.5 ± 0.5	32 ± 0.5	57
2.5"/1.5"	63.5 ± 0.5	38 ± 0.5	57
2.5"/2"	63.5 ± 0.5	51 ± 0.5	39
3"/1"	76.2 ± 0.5	25 ± 0.5	74
3"/1.25"	76.2 ± 0.5	32 ± 0.5	74
3"/1.5"	76.2 ± 0.5	38 ± 0.5	74
3"/2"	76.2 ± 0.5	51 ± 0.5	57
3"/2.5"	76.2 ± 0.5	63.5 ± 0.5	39
4"/1.5"	101.6 ± 0.5	38 ± 0.5	95
4"/2"	101.6 ± 0.5	51 ± 0.5	95
4"/2.5"	101.6 ± 0.5	63.5 ± 0.5	78
4"/3"	101.6 ± 0.5	76.2 ± 0.5	60

3A Welded Reducer

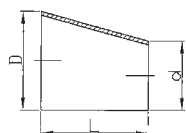
Size	D	L	L1
0.75"/0.5"	19.1	12.7	25.4
1"/0.5"	25.4	12.7	38.1
1"/0.75"	25.4	19.1	25.4
1.5"/0.5"	38.1	12.7	63.5
1.5"/0.75"	38.1	19.1	50.8
1.5"/1"	38.1	25.4	50.8
2"/0.5"	50.8	12.7	114.3
2"/0.75"	50.8	19.1	101.6
2"/1"	50.8	25.4	101.6
2"/1.5"	50.8	38.1	50.8
2.5"/0.5"	63.5	12.7	165
2.5"/0.75"	63.5	19.1	152.4
2.5"/1"	63.5	25.4	152.4
2.5"/1.5"	63.5	38.1	101.6
2.5"/2"	63.5	50.8	50.8
3"/1"	76.2	25.4	203.2
3"/1.5"	76.2	38.1	152.4
3"/2"	76.2	50.8	101.6
3"/2.5"	76.2	63.5	50.8
4"/1"	101.6	25.4	304.9
4"/1.5"	101.6	38.1	254
4"/2"	101.6	50.8	203.2
4"/2.5"	101.6	63.5	152.4
4"/3"	101.6	76.2	101.6
6"/3"	152.4	76.2	155.7
6"/4"	152.4	101.6	155.7



40065



Concentric Reducer



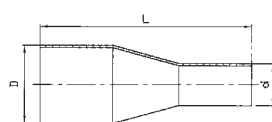
Eccentric Reducer

DIN Short-Type Welded Reducer

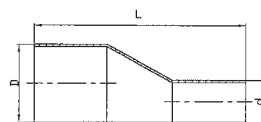
Size	D	d	L	Size	D	d	L
DN15/10	18	13	11	DN65/32	70	34	62
DN20/10	22	13	18	DN65/40	70	40	51
DN20/15	22	18	7	DN65/50	70	52	29
DN25/15	28	18	18	DN80/40	85	40	78
DN25/20	28	22	11	DN80/50	85	52	56
DN32/20	34	22	22	DN80/65	85	70	27
DN32/25	34	28	11	DN100/50	104	52	90
DN40/20	40	22	33	DN100/65	104	70	61
DN40/25	40	28	22	DN100/80	104	85	34
DN40/32	40	34	11	DN125/80	129	85	80
DN50/25	52	28	44	DN125/100	129	104	45
DN50/32	52	34	33	DN150/100	154	104	90
DN50/40	52	40	22	DN150/125	154	129	45
DN65/25	70	28	73	DN200/150	204	154	90



40066



Concentric Reducer



Eccentric Reducer

DIN Long-Type Welded Reducer

Size	D	d	L	Size	D	d	L
DN20/15	22	18	60	DN65/40	70	40	120
DN25/20	28	22	60	DN65/50	70	52	130
DN32/20	34	22	80	DN80/40	85	40	140
DN32/25	34	28	80	DN80/50	85	52	125
DN40/20	40	22	102	DN80/65	85	70	120
DN40/25	40	28	102	DN100/50	104	52	160
DN40/32	40	34	88	DN100/65	104	70	127
DN50/25	52	28	115	DN100/80	104	85	120
DN50/32	52	34	129	DN125/80	129	85	150
DN50/40	52	40	113	DN125/100	129	104	150
DN65/25	70	28	125	DN150/100	154	104	170
DN65/32	70	34	125	DN150/125	154	129	170

02. FERRULE / UNION / PIPE HOLDER



02

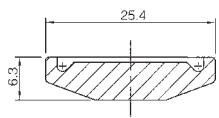


Ferrule

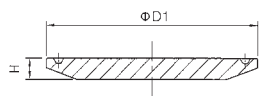


End Cap

60050



60051

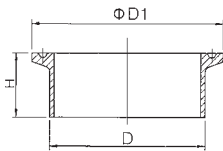


End Cap (16AMP)

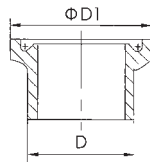
Size	D1	H
1/2" - 3/4"	25.4	6.3
1"-1.25"	50.5	6.3
1.5"	50.5	6.3
2"	64	6.3
2.5"	77.5	6.3
3"	91	6.3
3.5"	106	6.3
4"	119	7.9
4.5"	130	7.9
5"	144.4	11.1
5.5"	155	11.1
6"	167	11.1
6.625"	183	11.1
8"	217.4	11.1
8.625"	233.5	11.1
10"	268	11.1
12"	319	11.1

Ferrule

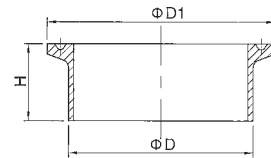
60048



60047



60057



Ferrule

Size	D	D1	H		
			14WMP	14MMP	14AMP
1/2"	12.7	25.4	12.7	21.5	28.6
3/4"	19.1	25.4	12.7	21.5	28.6
1"	25.4	50.5	12.7	21.5	28.6
1 1/2"	38.1	50.5	12.7	21.5	28.6
2"	50.8	64	12.7	21.5	28.6
2 1/2"	63.5	77.5	12.7	21.5	28.6
3"	76.2	91	12.7	21.5	28.6
4"	101.6	119	15.8	21.5	28.6
6"	152.4	167	22.2	21.5	38.1
8"	203.2	217.4	22.2	21.5	38.1
10"	254	268	22.2	21.5	38.1

Ferrule DIN32676

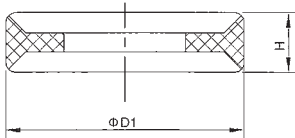
Size	D		D1	H	t(mm)	
	1	2			1	2
DN10	13	13	34	18	1.5	1.5
DN15	18	19	34	18	1.5	1.5
DN20	22	23	34	18	1.5	1.5
DN25	28	29	50.5	21.5	1.5	1.5
DN32	34	35	50.5	21.5	1.5	1.5
DN40	40	41	50.5	21.5	1.5	1.5
DN50	52	53	64	21.5	1.5	1.5
DN65	70	-	91	28	-	2
DN80	85	-	106	28	-	2
DN100	104	-	119	28	-	2
DN125	129	-	144.5	28	-	2
DN125	129	-	155	28	-	2
DN150	154	-	167	28	-	2
DN150	154	-	183	28	-	2
DN200	204	-	217.4	28	-	2
DN200	204	-	233.5	28	-	2
DN250	254	-	268	28	-	2
DN300	304	-	319	28	-	2



Ferrule Gasket

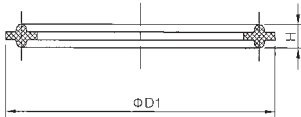


60059



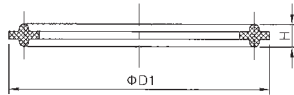
Ferrule Gasket		
Size	D1	H
1/2"	20.3	5
3/4"	20.3	5

60060



Ferrule Gasket		
Size	D	H
1"	50.5	5
1 1/2"	50.5	5
2"	64	5.5
2 1/2"	77.5	5.5
3"	91	5.5
3 1/2"	106	5.5
4"	119	5.5
4.5"	130	5.5
5"	145	5.5
133	155	5.5
6"	167	5.5
159	183	5.5
8"	217.4	5.5
219	233.5	5.5
10"	268	5.5
12"	319	5.5

60062

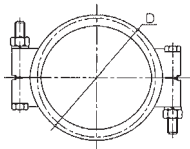


DIN Ferrule Gasket		
Size	D1	H
DN10	34	5
DN15	34	5
DN20	34	5
DN25	50.5	5
DN32	50.5	5
DN40	50.5	5
DN50	64	5.5
DN65	91	5.5
DN80	106	5.5
DN100	119	5.5
DN125	144.5	5.5
DN150	167	5.5
DN200	217.4	5.5
DN250	268	5.5
DN300	319	5.5

Clamp

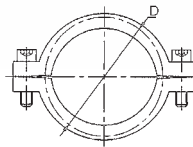


60066


High-Pressure Clamp (13mhp)

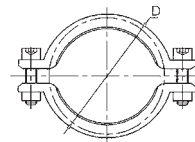
Size	D
1"	52
1 1/2"	52
2"	65.5
2 1/2"	79
3"	92.5
4"	120.5

60066-1


2-pcs Heavy Duty Clamp

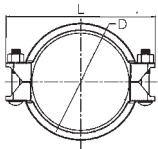
Size	D
1"	52
1 1/2"	52
2"	65.5
2 1/2"	79
3"	92.5
4"	120.5

60066-2


2-pcs Stainless Pressing Clamp

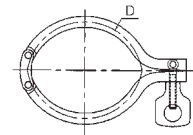
Size	D
1"	52
1 1/2"	52
2"	65.5
2 1/2"	79
3"	92.5
4"	120.5

60066-3


Coupling Clamp

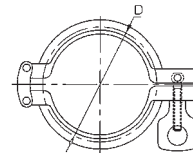
Size	D	L
2"	57.4	125.5
1 1/2"	69.6	143.5
3"	85.2	162
4"	110	195
6"	165	281
8"	215.2	330

60064


Double Pin Clamp (DP) 13mhhm

Size	D
1/2" - 3/4"	28.6
1" - 1 1/2"	53.9
2"	67.4
2 1/2"	80.9
3"	94.4
4"	122.4
6"	170.4
8"	221.2

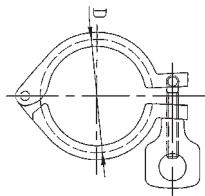
60064-1


Double Pin Clamp (DP) 13

Size	D
1/2" - 3/4"	28.6
1" - 1 1/2"	53.9
2"	67.4
2 1/2"	80.9
3"	94.4
4"	122.4
6"	170.4
8"	221.2



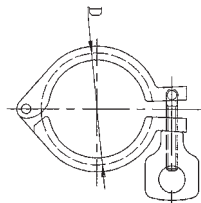
60063



Heavy Duty Clamp (13MHH)

Size	D
1/2" - 1/2"	28.6
1"-1 1/2"	53.9
2"	67.4
2.5"	80.9
3"	94.4
4"	122.4
4.5"	134
5"	149
133	159
6"	170.4
159	187
8"	221.2
219	238
10"	272
12"	323

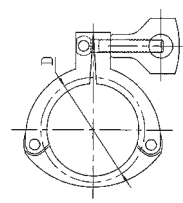
60067



Heavy Duty Clamp (DIN)

Size	D
DN10-20	37
DN25-40	53
DN50	67
DN65	94
DN80	109
DN100	122
DN125	149
DN125	159
DN150	171
DN150	187
DN200	217
DN200	238
DN250	272
DN300	323

60065



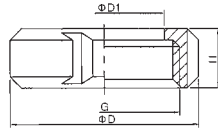
3-pcs Clamp (13MHM3P)

Size	D
1"-1 1/2"	53.9
2"	67.4
2 1/2"	80.9
3"	94.4
4"	122.4

SMS Union



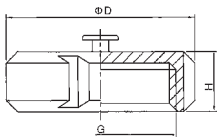
60011



Round Nut (Recommended Series)

Size	D	D1	G	H
25	50	32	Rd40x1/6	20
32	60	40	Rd48x1/6	20
38	72	48	Rd60x1/6	22
51	82	60.5	Rd70x1/6	22
63	97	74	Rd85x1/6	25
76	111	87	Rd98x1/6	26
89	118	96	Rd105x1/6	28
102	138	113	Rd125x1/4	30
102	146	117	Rd132x1/6	30

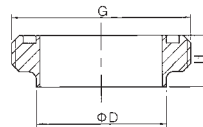
60035



Blind Nut (Recommended Series)

Size	D	D1	H
25	50	Rd40x1/6	20
32	60	Rd48x1/6	20
38	72	Rd60x1/6	22
51	82	Rd70x1/6	22
63	97	Rd85x1/6	25
76	111	Rd98x1/6	26
89	118	Rd105x1/6	28
102	138	Rd125x1/4	30
102	146	Rd132x1/6	30

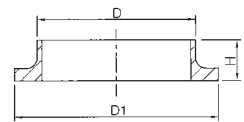
60012



Male (Recommended Series)

Size	D	D1	H
25	25.4	Rd40x1/6	19
32	31.8	Rd48x1/6	18
38	38.1	Rd60x1/6	20
51	50.8	Rd70x1/6	20
63	63.5	Rd85x1/6	24
76	76.2	Rd98x1/6	25
89	89	Rd105x1/6	26
102	101.6	Rd125x1/4	27
102	101.6	Rd132x1/6	27

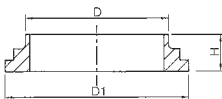
60013



Circular Liner

Size	D	D1	H
25	25.4	35.5	12
32	31.8	43.5	12
38	38.1	55.5	13
51	50.8	65.5	13
63	63.5	80	14
76	76.2	93	14
89	89	101	15
102	101.6	118	17
102	101.6	127.5	17

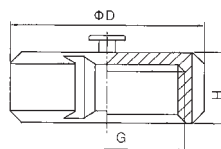
60014



Stepped Liner

Size	D	D1	H
25	25.4	35.5	12
32	31.8	43.5	12
38	38.1	55.5	13
51	50.8	65.5	13
63	63.5	80	14
76	76.2	93.5	14
89	89	101	15
102	101.6	118	17
102	101.6	127.5	17

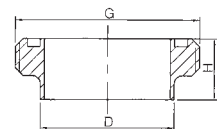
70060



Blind Nut (Available With Chain)

Size	D	G	H
25	51	Rd40x1/6	20
38	74	Rd60x1/6	25
51	84	Rd70x1/6	26
63	100	Rd85x1/6	30
76	114	Rd98x1/6	32
102	138	Rd125x1/4	32
102	146	Rd132x1/6	45

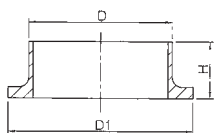
60016



Long Male

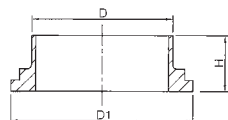
Size	D	D1	H
25	25.4	Rd40x1/6	19
38	38.1	Rd60x1/6	23
51	50.8	Rd70x1/6	23
63	63.5	Rd85x1/6	27
76	76.2	Rd98x1/6	27
102	101.6	Rd125x1/4	30
102	101.6	Rd132x1/6	30

60017

**Long Circular Liner**

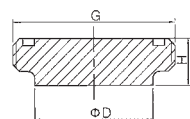
Size	D	D1	H
25	25.4	35.5	15
38	38.1	55.5	20
51	50.8	65.5	20
63	63.5	80	21
76	76.2	93	21
102	101.6	118	21
102	101.6	127.5	21

60018

**Long Stepped Liner**

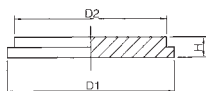
Size	D	D1	H
25	25.4	35.5	15
38	38.1	55.5	20
51	50.8	65.5	20
63	63.5	80.5	21
76	76.2	93.5	21
102	101.6	118	21
102	101.6	127.5	21

70061

**Blind Male**

Size	D	G	H
Φ25	25.4	Rd40x1/6	19
Φ32	31.8	Rd48x1/6	18
Φ38	38.1	Rd60x1/6	20
Φ51	50.8	Rd70x1/6	20
Φ63	63.5	Rd85x1/6	24
Φ76	76.2	Rd98x1/6	25
Φ89	89	Rd105x1/6	26
Φ102	101.6	Rd125x1/4	27
Φ102	101.6	Rd132x1/6	27

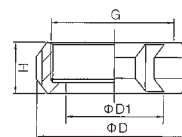
70062

**Blind Liner**

Size	D1	D2	H
Φ25	35.5	31.2	7
Φ32	31.8	39.2	7
Φ38	38.1	47	8
Φ51	50.8	59.5	8
Φ63	63.5	73	8
Φ76	76.2	86	8
Φ89	89	95	8
Φ102	101.6	112	10
Φ102	101.6	116	10

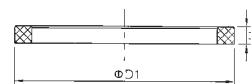


60015

**Long Round Nut**

Size	D	D1	G	H
25	50	32	Rd40x1/6	20
38	72	48	Rd60x1/6	25
51	82	60.5	Rd70x1/6	26
63	97	74	Rd85x1/6	30
76	111	87	Rd98x1/6	32
102	138	113	Rd125x1/4	32
102	146	117	Rd132x1/6	45

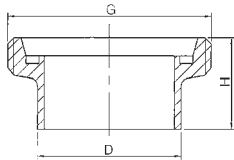
60040

**Gasket**

Size	D1	H
25	33	5.5
32	40	5.5
38	48	5.5
51	61	5.5
63	73	5.5
76	86	6
89	98	6
102	114	6

DIN Union

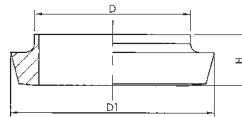
60005



Long Male (11851)

Size	D	G	H
DN10	15	Rd28x1/8	21
DN15	21	Rd34x1/8	21
DN20	25	Rd44x1/6	24
DN25	31	Rd52x1/6	29
DN32	37	Rd58x1/6	32
DN40	43	Rd65x1/6	33
DN50	55	Rd78x1/6	35
DN65	72	Rd95x1/6	40
DN80	87	Rd110x1/4	45
DN100	106	Rd130x1/4	54
DN125	132	Rd160x1/4	46
DN150	157	Rd190x1/4	50

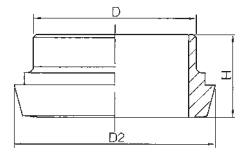
60004



Short Liner (DIN11851)

Size	D	D1	H
DN10	12	22	13
DN15	18	28	13
DN20	22	36	13
DN25	28	44	14
DN32	34	50	14
DN40	40	56	16
DN50	52	68	17
DN65	70	86	18
DN80	85	100	20
DN100	104	121	22
DN125	129	150	29
DN150	154	176	30

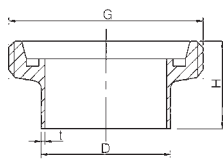
60006



Long Liner (DIN11851)

Size	D	D2	H
DN10	15	22	17
DN15	21	28	17
DN20	25	36	18
DN25	31	44	22
DN32	37	50	25
DN40	43	56	26
DN50	55	68	28
DN65	72	86	32
DN80	87	100	37
DN100	106	121	44
DN125	132	150	34
DN150	157	176	37

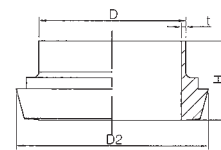
60007



Long Male (DIN11851)

Size	1	2	t	G	H
DN10	12	13	1.5	Rd28x1/8	21
DN15	18	19	1.5	Rd34x1/8	21
DN20	22	23	1.5	Rd44x1/6	24
DN25	28	29	1.5	Rd52x1/6	29
DN32	34	35	1.5	Rd58x1/6	32
DN40	40	41	1.5	Rd65x1/6	33
DN50	52	53	1.5	Rd78x1/6	35
DN65	-	70	2	Rd95x1/6	40
DN80	-	85	2	Rd110x1/4	45
DN100	-	104	2	Rd130x1/4	54
DN125	-	129	2	Rd160x1/4	46
DN150	-	154	2	Rd190x1/4	50

60008

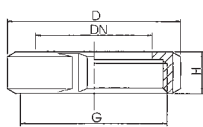


Long Liner (DIN11851)

Size	1	2	t	D2	H
DN10	12	13	1.5	22	17
DN15	18	19	1.5	28	17
DN20	22	23	1.5	36	18
DN25	28	29	1.5	44	22
DN32	34	35	1.5	50	25
DN40	40	41	1.5	56	26
DN50	52	53	1.5	68	28
DN65	-	70	2	86	32
DN80	-	85	2	100	37
DN100	-	104	2	121	44
DN125	-	129	2	150	34
DN150	-	154	2	176	37



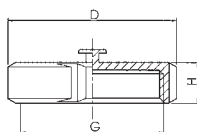
60001



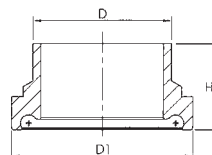
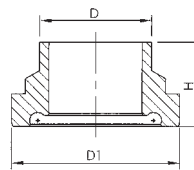
Round Nut

Size	DN	D	G	H
DN10	19	38	Rd28x1/8	18
DN15	25	44	Rd34x1/8	18
DN20	31	54	Rd44x1/6	20
DN25	36	63	Rd52x1/6	21
DN32	42	70	Rd58x1/6	21
DN40	49	78	Rd65x1/6	21
DN50	62	92	Rd78x1/6	22
DN65	80	110	Rd95x1/6	25
DN80	94	125	Rd110x1/4	27
DN100	115	146	Rd130x1/4	29
DN125	138	178	Rd160x1/4	32
DN150	164	210	Rd190x1/4	38

60034



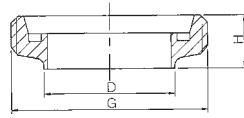
70002



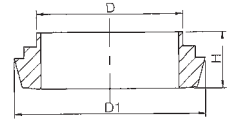
Blind Nut (Available With Chain)

Size	D	G	H
DN10	13 14	22	17
DN15	19 20	28	17
DN20	23 24	36	18
DN25	29 30	43	22
DN32	35 36	49	25
DN40	41 42	55	26
DN50	53 54	67	30
DN65	70	85	34
DN80	85	99	38
DN100	104	119	46

60002



60003

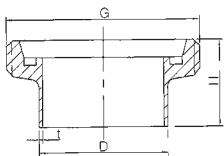
**Short Male (DIN11851)**

Size	D	G	H
DN15	18	Rd34x1/8	17
DN20	22	Rd44x1/6	19
DN25	28	Rd52x1/6	20
DN32	34	Rd58x1/6	20
DN40	40	Rd65x1/6	20
DN50	52	Rd78x1/6	21
DN65	70	Rd95x1/6	23
DN80	85	Rd110x1/4	25
DN100	104	Rd130x1/4	28
DN125	129	Rd160x1/4	30
DN150	154	Rd190x1/4	35

Short Stepped Liner (DIN11851)

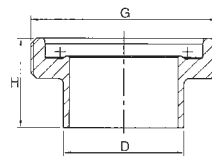
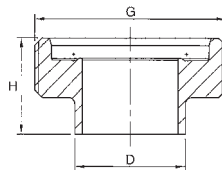
Size	D	D1	H
DN15	18	28	13
DN20	22	36	15
DN25	28	44	17
DN32	34	50	17
DN40	40	56	19
DN50	52	68	20
DN65	70	86	20
DN80	85	100	23
DN100	104	121	26
DN125	129	150	33
DN150	154	176	34

70007

**DIN-Inch Male**

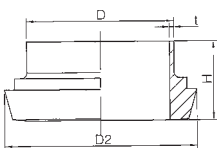
Size	D	t	G	H
1"	25.4	1.5	Rd52x1/6	29
1 1/4"	31.8	1.5	Rd58x1/6	32
1.5"	38.1	1.5	Rd65x1/6	33
2"	50.8	1.5	Rd78x1/6	35
2.5"	63.5	2	Rd95x1/6	40
3"	76.2	2	Rd110x1/4	45
4"	101.6	2	Rd130x1/4	54

70001

**DIN-Inch Male**

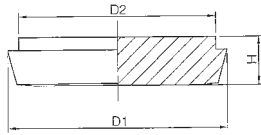
Size	D	t	D2	H
1"	25.4	1.5	44	22
1 1/4"	31.8	1.5	50	25
1.5"	38.1	1.5	56	26
2"	50.8	1.5	68	28
2.5"	63.5	2	86	32
3"	76.2	2	100	37
4"	101.6	2	121	44

70008

**Blind Nut (Available With Chain)**

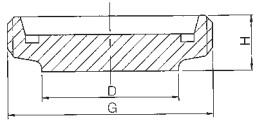
Size	D	G	H
DN10	13	Rd28x1/8	19
	14		
DN15	19	Rd34x1/8	19
	20		
DN20	23	Rd44x1/6	21
	24		
DN25	29	Rd52x1/6	26
	30		
DN32	35	Rd58x1/6	30
	36		
DN40	41	Rd65x1/6	31
	42		
DN50	53	Rd78x1/6	31
	54		
DN65	70	Rd95x1/6	36
DN80	85	Rd110x1/4	42
DN100	104	Rd130x1/4	50

70004

**Blind Liner**

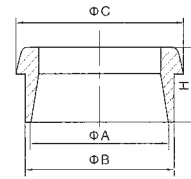
Size	D1	D2	H
DN15	28	24	9
DN20	36	30	11
DN25	44	35	13
DN32	50	41	13
DN40	56	48	13
DN50	68	61	15
DN65	86	79	16
DN80	100	93	16
DN100	121	114	20
DN125	150	137	22
DN150	176	163	24

70003

**Blind Male**

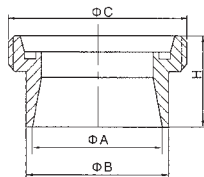
Size	D	G	H
DN15	18	Rd34x1/8	17
DN20	22	Rd44x1/6	19
DN25	28	Rd52x1/6	20
DN32	34	Rd58x1/6	20
DN40	40	Rd65x1/6	20
DN50	52	Rd78x1/6	21
DN65	70	Rd95x1/6	23
DN80	85	Rd110x1/4	25
DN100	104	Rd130x1/4	28
DN125	129	Rd160x1/4	30
DN150	154	Rd190x1/4	35

70006

**ISO Liner (DIN11851)**

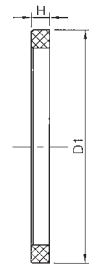
DN	A	B	C	H
17.2	14	17.2	22.5	21
21.3	18.1	21.3	28.5	21
26.9	23.7	26.9	36.5	24
33.7	29.7	33.7	44	29
42.4	38.4	42.4	50	32
48.3	44.3	48.3	56	33
60.3	56.3	60.3	68.5	35
76.1	71.5	76.1	86	40
88.9	84.3	88.9	100	45
114.3	109.1	114.3	121	54
139.7	134.5	139.7	150	46
168.3	163.1	168.3	176	50

70005

**ISO Male (11851)**

DN	A	B	C	H
17.2	14	17.2	Rd28x1/8"	21
21.3	18.1	21.3	Rd34x1/8"	21
26.9	23.7	26.9	Rd44x1/6"	24
33.7	29.7	33.7	Rd52x1/6"	29
42.4	38.4	42.4	Rd58x1/6"	32
48.3	44.3	48.3	Rd65x1/6"	33
60.3	56.3	60.3	Rd78x1/6"	35
76.1	71.5	76.1	Rd95x1/6"	40
88.9	84.3	88.9	Rd110x1/4"	45
114.3	109.1	114.3	Rd130x1/4"	54
139.7	134.5	139.7	Rd160x1/4"	46
168.3	163.1	168.3	Rd190x1/4"	50

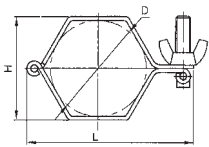
60039

**Union Gasket**

Size	D1	H
DN10	20	4
DN15	26	5
DN20	33	5
DN25	40	5
DN32	46	5
DN40	52	5
DN50	64	5
DN65	81	5
DN80	95	5
DN100	114	5
DN125	142	6
DN150	167	6

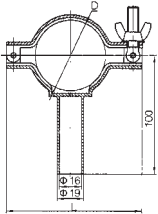
Pipe Holder

60072



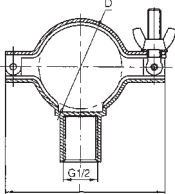
Size	D	L	H
1"	25.4	87	28
1 1/2"	38.1	101.6	40
2"	50.8	114.3	52
2 1/2"	63.5	120.6	66
3"	76.2	139.7	77
4"	101.6	171.4	104

60073-1



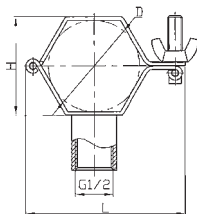
Size	D	L
1"	25.4	61
1 1/2"	38.1	76
2"	50.8	90
2 1/2"	63.5	106
3"	76.2	120
4"	101.6	146

60073-2



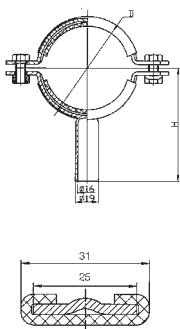
Size	D	H
1"	25.4	61
1 1/2"	38.1	76
2"	50.8	90
2 1/2"	63.5	106
3"	76.2	120
4"	101.6	146

60074



Size	D	L	H
1"	25.4	61	28
1 1/2"	38.1	76	40
2"	50.8	90	52
2 1/2"	63.5	106	66
3"	76.2	120	77
4"	101.6	146	104

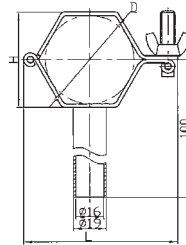
60077-1



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

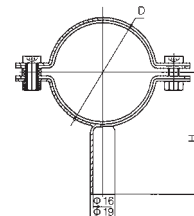


60075



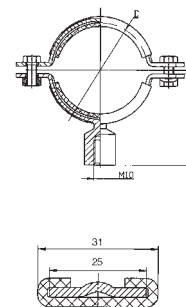
Size	D	L	H
1"	25.4	61	28
1 1/2"	38.1	76	40
2"	50.8	90	52
2 1/2"	63.5	106	66
3"	76.2	120	77
4"	101.6	146	104

60069



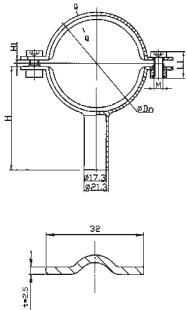
Size	D	H
1/2"	12.7	58.4
3/4"	19.1	62.5
1"	25.4	65.7
1 1/2"	38.1	72
2"	50.8	78.4
2 1/2"	63.5	84.8
3"	76.2	91
4"	101.6	103.8
5"	129	117.5
6"	154	130
8"	204	155
10"	254	180
12"	304	205

60077-2



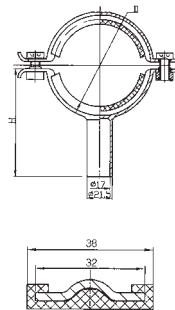
Size	D	H
1/2"	12.7	40.4
3/4"	19.1	44.5
1"	25.4	47.7
1 1/2"	38.1	54
2"	50.8	60.4
2 1/2"	63.5	66.8
3"	76.2	73
4"	101.6	85.8
5"	129	99.5
6"	154	94
8"	204	137
10"	254	162
12"	304	187

60078-1



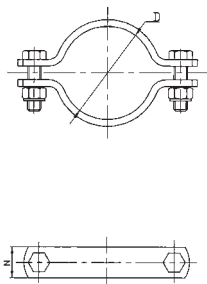
Size	D	H
1/2"	12.7	90
3/4"	19.1	90
1"	25.4	90
1 1/2"	38.1	90
2"	50.8	90
2 1/2"	63.5	90
3"	76.2	90
4"	101.6	90
5"	129	125
6"	154	135
8"	204	145
10"	254	174
12"	304	200

60078-2



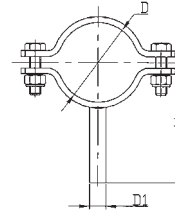
Size	D	H
1/2"	12.7	90
3/4"	19.1	90
1"	25.4	90
1 1/2"	38.1	90
2"	50.8	90
2 1/2"	63.5	90
3"	76.2	90
4"	101.6	90
5"	129	125
6"	154	135
8"	204	145
10"	254	174
12"	304	200

60079-1



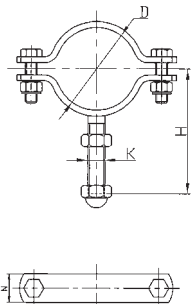
Size	D	H
DN10	13	20
DN15	19	20
DN20	23	20
DN25	29	20
DN32	35	20
DN40	41	20
DN50	53	20
DN65	70	20
DN80	85	25
DN100	104	25
DN125	129	30
DN150	154	40
DN200	204	50
DN250	254	60

60079-2



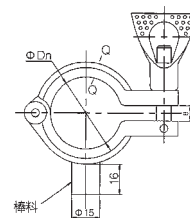
Size	D	D1	H	N
DN10	13	8	64	20
DN15	19	8	67	20
DN20	23	8	69	20
DN25	29	10	72	20
DN32	35	10	75	20
DN40	41	10	78	20
DN50	53	12	84	20
DN65	70	12	93	20
DN80	85	12	100	25
DN100	104	12	110	25
DN125	129	16	140	30
DN150	154	16	180	40
DN200	204	20	240	50
DN250	254	24	280	60

60079-3

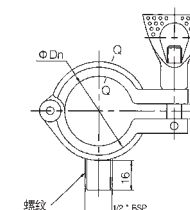


Size	D	K	H	N
DN10	13	M8	74	20
DN15	19	M8	77	20
DN20	23	M8	79	20
DN25	29	M10	102	20
DN32	35	M10	105	20
DN40	41	M10	108	20
DN50	53	M12	114	20
DN65	70	M12	123	20
DN80	85	M12	130.5	25
DN100	104	M12	140	25
DN125	129	M16	168.5	30
DN150	154	M16	202	40
DN200	204	M20	255	50
DN250	254	M22	295	60

60079-4



60079-5



Healy Duty Pipe Holder

Size	D
1"	24.5
1 1/4"	31.8
1 1/2"	38.1
2"	50.8
2 1/2"	63.5
3"	76.2
3 1/2"	89
4"	101.6

I-line Fittings



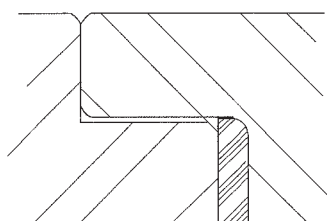
Line fitting is the ideal choice for industrial of food, brewing, oil and water solution. I-Line fittings can withstand higher vibrations, temperatures and pressure than other available connections. Easy to disassembly and comply with food grade.

Size: 1"-8"

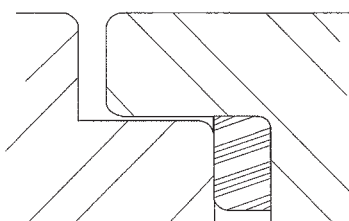
Material: ASTM T304/316L

Polish: 180Grit/ 300Grit

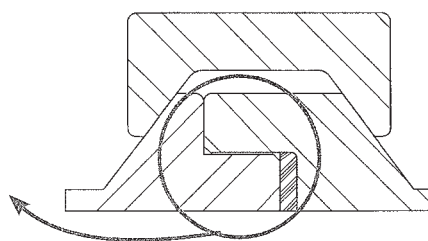
Gaskets are available in EPDM, FPM, NBR, as silicon as a standard.



Compressed

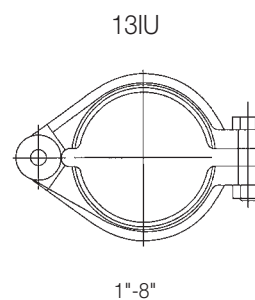
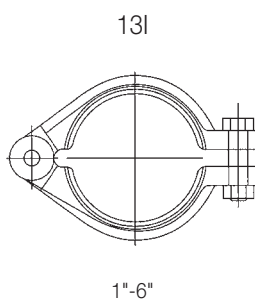
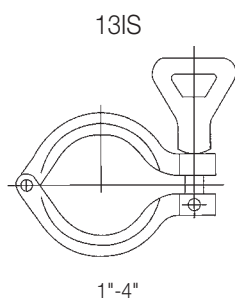


Decompressed



The gasket is compressed, metal-to-metal design stops gasket from extruding to the bore line.

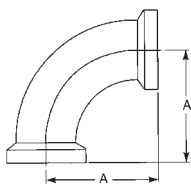
I-line Clamps



Clamp	Tube o.D.	Temp.	1"	1 1/2"	2"	2 1/2"	3"	4"	6"
Heavy Duty		@ 70°F	1220	1220	900	720	600	570	150
13I, 13IU & 13IS		@ 250°F	1100	1100	830	660	550	525	75

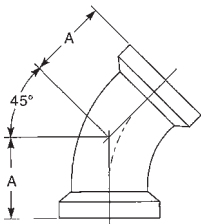
I-line Elbows

Note: All dimensions are in inches.



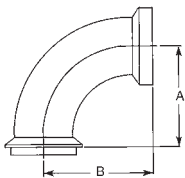
2CI 90° Elbow Both Ends Female

Size	A
1"	2"
1 1/2"	2 7/8"
2"	3 3/4"
2 1/2"	4 27/32"
3"	5 7/8"
4"	8 1/16"
6"	10 1/8"



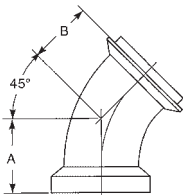
2KI 45° Elbow Both Ends Female

Size	A
1"	1 5/16"
1 1/2"	1 23/32"
2"	2 1/8"
2 1/2"	2 5/8"
3"	3 1/8"
4"	4 1/4"
6"	4 7/8"



2FI 90° Elbow One End Male
Other End Female

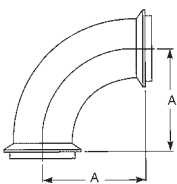
Size	B	A
1"	2"	1 13/16"
1 1/2"	2 7/8"	2 11/16"
2"	3 3/4"	3 15/32"
2 1/2"	4 27/32"	4 17/32"
3"	5 7/8"	5 9/16"
4"	8 1/16"	7 3/4"
6"	10 1/8"	9 13/16"



2PI 45° Elbow One End Male
Other End Female

Size	B	A
1"	1 5/16"	1 1/8"
1 1/2"	1 23/32"	1 17/32"
2"	2 1/8"	1 7/8"
2 1/2"	2 5/8"	2 5/16"
3"	3 1/8"	3 1/8"
4"	4 1/4"	3 15/16"
6"	4 7/8"	4 9/16"

8" available on Special order. other configurations on request.



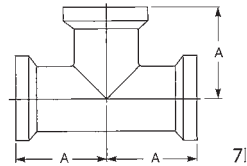
2EI 90° Elbow Both Ends Male

Size	A
1"	1 13/16"
1 1/2"	2 11/16"
2"	3 15/32"
2 1/2"	4 17/32"
3"	5 9/16"
4"	7 3/4"
6"	9 13/16"



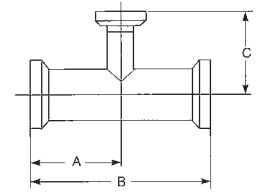
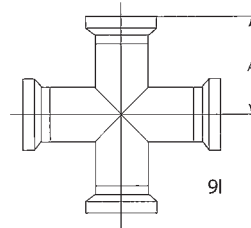
I-line Tees & Crosses

Note: All dimensions are in inches.



7I Tee & 9I Cross All Ends Female

Size	A
1"	2"
1 1/2"	2 7/8"
2"	3 3/4"
2 1/2"	4 27/32"
3"	5 7/8"
4"	8 1/16"
6"	10 1/8"



7RI Reducing Tee All Ends Female

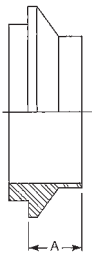
Size	A	B	C
1 1/2" x 1"	2 9/16"	5 1/8"	2 29/32"
2" x 1"	3 3/32"	6 3/16"	3 7/32"
2" x 1 1/2"	3 3/32"	6 3/16"	3 17/32"
2 1/2" x 1 1/2"	3 15/32"	6 15/16"	3 23/32"
2 1/2" x 2"	3 15/32"	6 15/16"	4 9/32"
3" x 2"	3 25/32"	7 9/16"	4 1/16"
3" x 2 1/2"	3 25/32"	7 9/16"	4 13/32"
4" x 2 1/2"	4 25/32"	9 9/16"	4 27/32"
4" x 3"	4 25/32"	9 9/16"	5 1/16"

I-line Ferrules

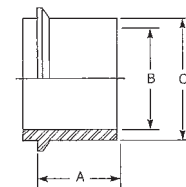
Note: All dimensions are in inches.

14WI-CB Ferrule, Male, Welding

Size	A
1"	1 9/32"
1 1/2"	3/4"
2"	2 5/32"
2 1/2"	2 7/32"
3"	2 9/32"
4"	1 1/32"
6"	1 3/16"
8"	1 3/16"

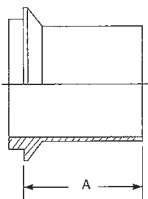


8" available on Special order. other configurations on request.



14WLI Ferrule, Male, Welding Long

Size	A
1"	1 9/16"
1 1/2"	1 27/32"
2"	2 1/16"
2 1/2"	2 3/16"
3"	2 3/8"
4"	2 11/16"
6"	3 13/16"
8"	3 13/16"



14WHI Ferrule, Male, Welding (Heavy Wall)

Size	A	B	C
1"	1 5/16"	0.870	1 1/4"
1 1/2"	1 7/16"	1.370	1 11/16"
2"	1 1/2"	1.870	2 1/4"
2 1/2"	1 7/16"	2.370	2 3/4"
3"	1 1/2"	2.870	3 5/16"
4"	1 13/16"	3.834	4 1/4"
6"	6 7/8"	5.787	6 53/64"
8"	8 7/8"	7.787	8 53/64"

03. SANITARY VALVE



03



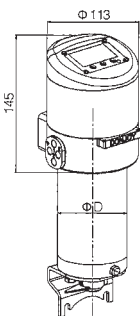
Pneumatic Actuator



Actuator + locator

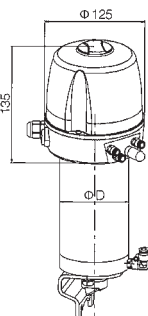


Pneumatic actuator
+ valve positioner



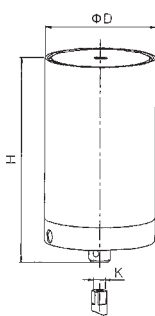
NO.1102003

Pneumatic actuator
+ C-TOP



NO.1102002

Pneumatic actuator



NO.1102001

Stainless Steel Pneumatic Actuator

Size	D	H	K	Air consumption (ml per cycle)	
				Single act (air/spring)	Double act (air/air)
85	86	172.5	8 x 8	216	532
85	86	172.5	10 x 10	216	532
85	86	172.5	11 x 11	216	532
114	113	248	11 x 11	450	900
114	113	248	14 x 14	450	900
133	133	285	11 x 11	776	1552
133	133	285	14 x 14	776	1552
168	166	294	14 x 14	-	2824

(Air/Air) Double Acting Torque Output (N.M)

Size	4Bar	4.5Bar	5Bar	5.5Bar	6Bar	6.5Bar	7Bar	7.5Bar	8Bar
85	42	48	54	60	66	70	76	80	86
114	80	90	100	110	120	130	140	150	160
133	134	150	166	182	198	214	230	246	262
168	179	202	225	248	271	294	317	340	363

(Air/Spring) Single Action Torque Output (N.M)

Size	4Bar		4.5Bar		5Bar		5.5Bar		6Bar		6.5Bar		7Bar		7.5Bar		8Bar			
	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
85	17	2	23	8	29	14	35	20	41	26	47	32	53	38	59	44	65	50	22	32
114	50	12	60	22	70	32	80	42	90	52	100	62	110	72	120	82	130	92	36	74
133	94	24	110	40	126	56	143	72	150	88	166	104	182	120	198	136	216	152	71	133

Butterfly Valve

Applications

Butterfly valves, no matter manually or automatically, can be used in food-processing, pharmacy and chemical industries.

Operating principles

The butterfly valves can be operated automatically through actuator or manually with the handle. the handle blocks the valve in the "open" or "closed" position, certainly there are the other position available. the actuator push piston of axial movement in 90 degree so that it controls butterfly valve.

Technical specifications

- Max. Pressure: 10bar(DN25/100) 8bar(DN125/150) 5bar(DN200/300)
- Min. pressure: 0.2bar p.abs
- Operating temperature: -10°C to + 120°C(EPDM)

Design and features

- Compact and robust design
- Available in sizes DN25/1" to DN300/12"
- Multi-position handle is suitable up to DN100/4" valve
- Manual handle, pneumatic actuator and electric actuator can be exchangeable with each other
- PED97/23EC
- FDA.177.2600
- The valve body can be changeable with any kind of connection



Applications

- Disc: AISI 316L/304(forged)
- Valve body: AISI 316L/304(forged)
- Washer and gasket: EPDM conforms to PFA 177.2600
- Handle: AISI 304/PP
- Surface finishing: Ra≤0.8

Options

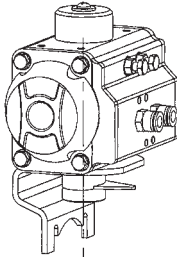
- Gaskets are available in NBR, MVQ, or FPM, which all confirm to standard of FDA177.2600
- Connection: weld, clamp, thread, weld thread, flange, DIN, SMS, RJT, ISO, IDF, 3A
- Handle: two-position handle, three-position handle, four-position pull handle, multi-position plastic handle and multi-position stainless steel handle.
- Actuator: pneumatic stainless steel actuator, pneumatic aluminum actuator, electric actuator
- Control: sensor, C-TOP, c-top controller (AS-I)

Operating Torque (N.M)

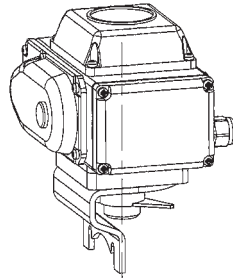
Operating Torque (N.M)	25-1"	40-1½"	50-2	21/2"	65	3"	80	100-4"	125	150
	3	4	5	10	12	14	18	25	40	55

Test under pressure of 10Kgrs cm2

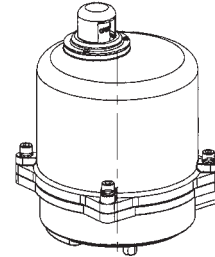
Aluminum actuator



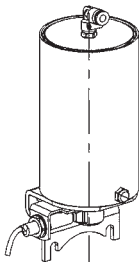
Electric actuator



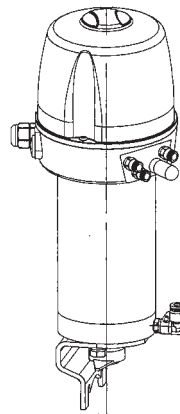
Electric actuator



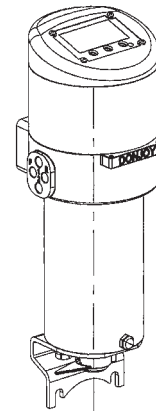
Stainless steel actuator+
position sensor



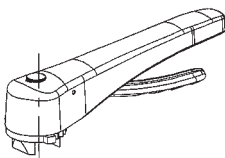
Stainless steel actuator +C-TOP



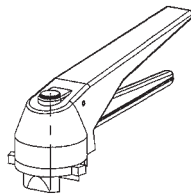
Stainless steel actuator+positioner



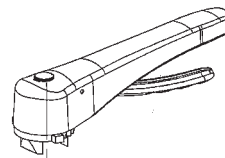
09 style plastic
handle



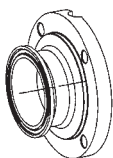
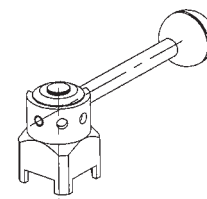
07 style plastic
handle



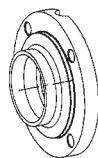
11 style SS multi-position
handle



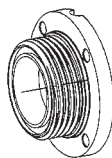
Pull handle



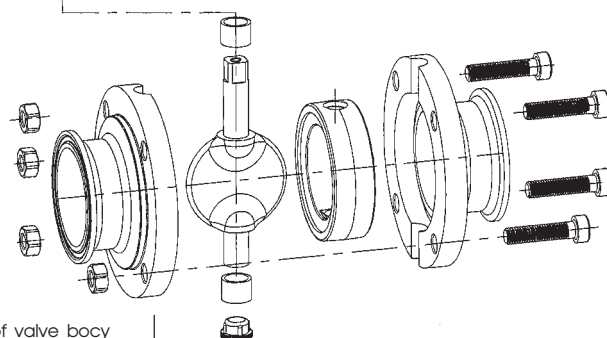
clamp



weld



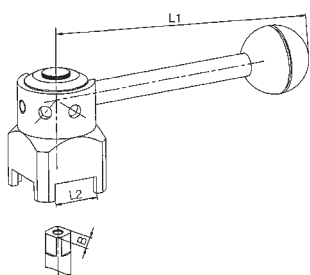
male



Alternative variety of valve body

Various Handles

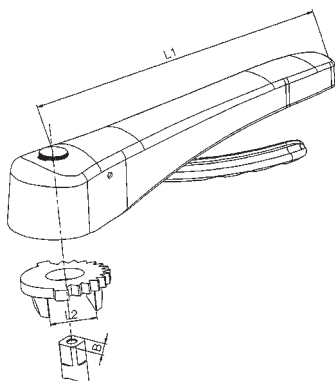
No.1103001



Full Handle

Size		L1	L2	B
DN10-DN40	0.5"-1.5"	126	20.2	8x8
DN50	2"	133	22.2	10
DN65	2.5"-3"	144	22.2	10
DN80-DN100	3.5"-4"	126	20.2	11
DN125-DN150	5"-6"	220	30.2	14
DN200-DN300	8"	284	30.2	14

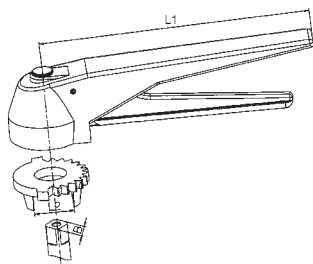
No.1103002



Multi-Position Handle (Plastic)

Size		L1	L2	B
DN10-DN40	0.5"-1.5"	164	20.2	8
DN65	2"-3"	164	22.2	10
DN80-DN100	3.5"-4"	164	22.2	11

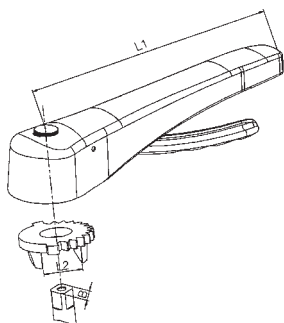
No.1103003



Multi-Position Handle (Plastic)

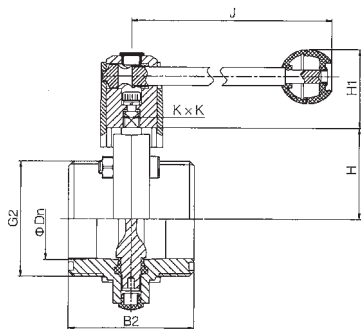
Size		L1	L2	B
DN10-DN40	0.5"-1.5"	150	20.2	8
DN50-DN65	2"-3"	150	22.2	10
DN80-DN100	3.5"-4"	150	22.2	11

No.1103004

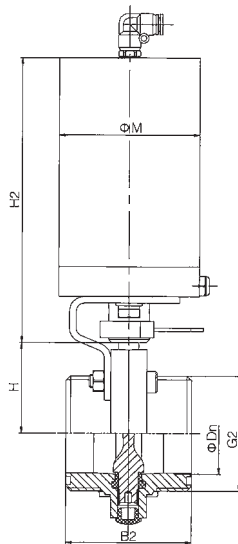


Multi-Position Handle (Stainless Steel)

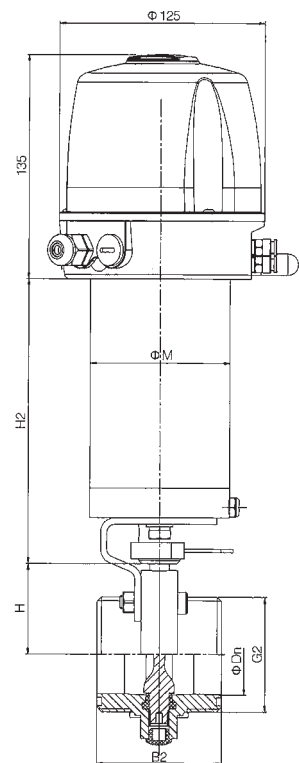
Size		L1	L2	B
DN15-DN40	0.5"-1.5"	166	20.2	8
DN50-65	2"-3"	166	22.2	10
DN80-DN100	3.5"-4"	166	22.2	11
DN125-DN300	5"-8"	215	30.2	14



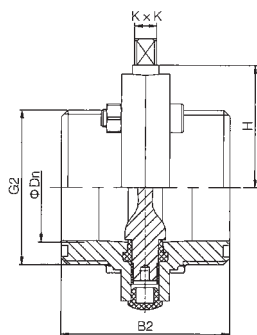
Manual butterfly valve
NO.1103016



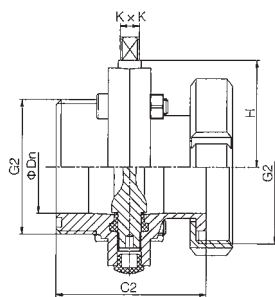
SS Pneumatic butterfly valve
NO.1103017



Pneumatic butterfly valve+C-TOP
NO.1103018



MALE/MALE (SMS)
NO.1103019



MALE/NUT (SMS)
NO.1103020

Butterfly Valve (SMS)

Size	Dn	K x K	H	H1	H2	B2	C2	Male (SMS)
								G2
3/4"	16	8 X 8	40	43.5	172.5	66	70	Rd36 X 1/8
1"	22.4	8 X 8	40	43.5	172.5	66	73	Rd40 X 1/6
1 1/4"	28.8	8 X 8	40	43.5	172.5	66	78	Rd48 X 1/6
1 1/2"	35.1	8 X 8	44.5	43.5	172.5	70	80	Rd60 X 1/6
2"	47.8	10 X 10	52.5	47.5	172.5	76	84	Rd70 X 1/6
2 1/2"	59.5	10 X 10	59	47.5	172.5	80	89	Rd85 X 1/6
3"	72.2	10 X 10	65.5	47.5	172.5	84	91	Rd98 X 1/6
3.5"	85	11 X 11	72	50	172.5	86	94	Rd105 X 1/6
4"	97.6	11 X 11	79	50	172.5	104	105	Rd125 X 1/4
4"	97.6	11 X 11	81	50	172.5	104	105	Rd132 X 1/6

Applications

- Check valve is a valve that prevents the fluid from flowing back and ensures to flow in only one direction.
- It can be used to prevent the flow less from returning avoid pipe – hammering.
- It is used in the food-processing, beverages, wine, oil, cosmetics, pharmaceutical and chemical industries.

Operating principle

- The valve opens when the pressure of the fluid exceeds the pressure to spring, When the two pressures are equalized, the valve closes.
A stronger counter-pressure also makes the valve close.

Design and features

- Sizes DN25/1" to DN100/4"
- Easy disassemble
- Small – size construction
- DIN11851 connections (standard)

Materials

- Casing/ shaft AISI 316L/AISI 304
- Spring AISI 301
- EPDM Seal according to FDA 177.2600
- Surface finishing $Ra \leq 0.8 \mu m$

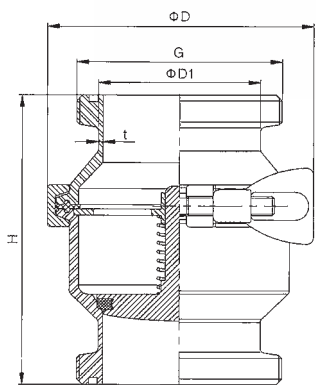
Technical specifications

- Max. Pressure 10 bar
- Opening pressure: 0.3 bar (DN25)
0.2 bar (DN32/40)
0.1 bar (DN20/100)
- Working temperature: $-10^{\circ}C$ to $+120^{\circ}C$ (EPDM)

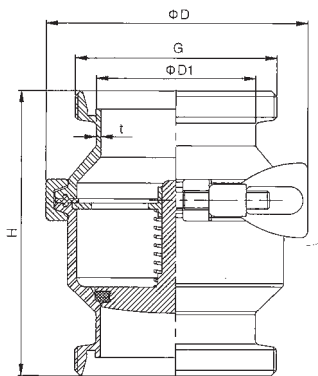
Options

- Seals in NBR, FPM(Viton) or PTFE, All of them according to FDA 177.2600
- Connections: weld, thread, clamp, DIN SMS, RJT, IDF, ISO, 3A

Check Valve C Type



NO.1111006



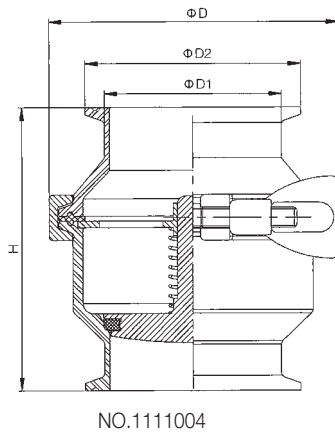
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SMS

Size	H	D1	D	t	G(RD)
3/4"	107	72	19	1.5	33.5 x 1/6
1"	107	72	25.4	1.5	39.5 x 1/6
1 1/4"	107	87	31.8	1.5	59.5 x 1/6
2"	111	87	38.1	1.5	69.5 x 1/6
1 1/2"	127	100	50.8	1.5	84.5 x 1/6
2 1/2"	141	115	63.5	2.0	97.3 x 1/6
3"	151	128	76.2	2.0	104.3 x 1/6
3 1/2"	153	128	89	2.0	124.3 x 1/4
4"	173	164	101.6	2.0	131.3 x 1/4

DIN

Size	H	D1		D	t	G(RD)
		(air/spring)	(air/air)			
DN15	103	18	19	72	1.5	33.5 x 1/8
DN20	107	22	23	72	1.5	43.5 x 1/6
DN25	109	28	29	72	1.5	51.5 x 1/6
DN32	111	34	35	87	1.5	57.5 x 1/6
DN40	111	40	41	87	1.5	64.5 x 1/6
DN50	129	52	53	100	1.5	77.5 x 1/6
DN65	139	70	-	115	2.0	94.5 x 1/4
DN80	151	85	-	128	2.0	109.3 x 1/4
DN100	175	104	-	164	2.0	129.3 x 1/4

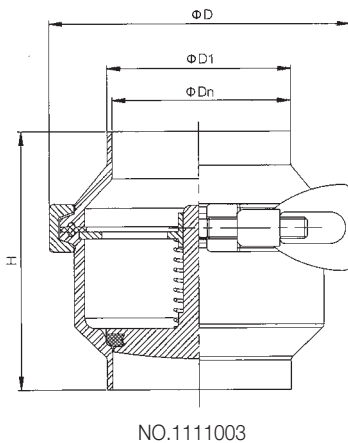


DIN

Size	H	D1	D2	D
DN10	95.5	12	34	72
DN15	95.5	18	34	72
DN20	95.5	22	34	72
DN25	95.5	28	50.5	72
DN32	97.5	34	50.5	87
DN40	97.5	40	50.5	87
DN50	113.5	52	64	100
DN65	119.5	70	91	115
DN80	127.5	85	106	128
DN100	151.6	104	119	164

INCH

Size	H	D1	D2	D
1/2"	95.5	121.7	25.4	72
3/4"	95.5	19	25.4	72
1"	95.5	25.4	50.5	72
1 1/4"	97.5	31.8	50.5	87
1 1/2"	97.5	38.1	50.5	87
2"	113.5	50.8	64	100
2 1/2"	119.5	63.5	77.5	115
3"	127.5	76.2	91	128
3 1/2"	127.5	89	106	128
4"	151.6	101.6	119	164

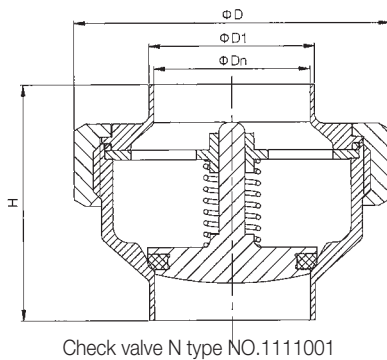


DIN

Size	H	D1	D	Dn
DN10	70	12	72	9
DN15	70	18	72	15
DN20	70	22	72	19
DN25	70	28	72	25
DN32	72	34	87	31
DN40	72	40	87	37
DN50	88	52	100	49
DN65	94	70	115	66
DN80	102	85	128	81
DN100	120	104	164	101

INCH

Size	H	D1	D2	D
1/2"	70	12.7	72	9.7
3/4"	70	19	72	16
1"	70	25.4	72	22.4
1 1/4"	72	31.8	87	28.8
1 1/2"	72	38.1	87	35.1
2"	88	50.8	100	47.8
2 1/2"	94	63.5	115	59.5
3"	102	76.2	128	72.2
3 1/2"	102	89	128	85
4"	120	101.6	164	97.6

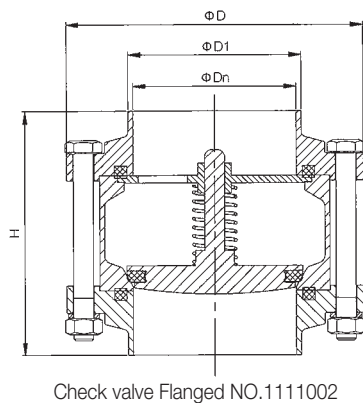


DIN

Size	H	D1	D	Dn
DN25	63	28	25	70
DN32	63	34	31	70
DN40	63	40	37	82
DN50	72	52	49	97
DN65	82.5	70	66	118
DN80	90.5	85	81	138
DN100	100.5	104	100	158

INCH

Size	H	D1	D2	D
1"	63	25.4	22.4	70
1 1/4"	63	31.8	28.8	70
1 1/2"	63	38.1	35.1	82
2"	72	50.8	47.8	97
2 1/2"	82.5	63.5	59.5	118
3"	90.5	76.2	72.2	138
3 1/2"	90.5	89	85	138
4"	100.5	101.6	97.6	158



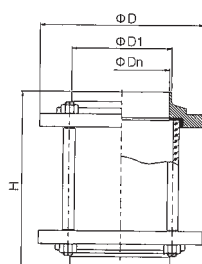
DIN

Size	H	D1	Dn	D
DN40	83	40	37	90
DN50	88	52	49	102
DN65	98	70	66	120
DN80	108	85	81	142
DN100	116	104	100	168
DN125	156	129	125	210
DN150	166	154	150	240
DN200	200	204	200	300

INCH

Size	H	D1	D2	D
1 1/2"	83	38.1	35.1	90
2"	88	50.8	47.8	102
2 1/2"	98	63.5	59.5	120
3"	108	76.2	72.2	142
3 1/2"	108	89	85	142
4"	116	101.6	97.6	168
5"	156	127	122.8	210
6"	166	152.4	146.8	240
8"	200	203.2	197.6	300

Sight Glasses



NO.2103014

INCH

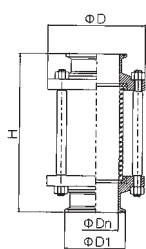
Size	H	D	D1	Dn
1/2"	140	78	12.7	9.4
3/4"	140	78	19.1	15.8
1"	140	78	25.4	22.4
1 1/4"	140	78	31.8	28.8
1 1/2"	140	86	38.1	35.1
2"	142	102	50.8	47.8
2 1/2"	146	115	63.5	59.5
3"	146	124	76.2	72.2
3 1/2"	150	139	89	85
4"	154	154	101.6	97.6
5"	170	185	133	127
6"	180	215	159	153

DIN

Size	H	D	D1	Dn
DN10	140	78	13	10
DN15	140	78	18	15
DN20	140	78	22	19
DN25	140	78	28	25
DN32	140	86	34	31
DN40	140	90	40	37
DN50	142	102	52	49
DN65	146	124	70	66
DN80	150	139	85	81
DN100	154	154	104	100
DN125	170	185	129	125
DN150	180	215	154	150

SMS

Size	H	G	D	Dn
DN10	156	RD28 x 1/8	78	10
DN15	156	RD33.5 x 1/8	78	15
DN20	156	RD43.5 x 1/6	78	19
DN25	156	RD51.5 x 1/6	78	25
DN32	160	RD67.5 x 1/6	86	31
DN40	164	RD64.5 x 1/6	90	37
DN50	166	RD77.5 x 1/6	106	49
DN65	170	RD94.5 x 1/6	124	66
DN80	174	RD109.2 x 1/4	139	81
DN100	194	RD129.2 x 1/4	159	100
DN125	220	RD159.2 x 1/4	185	125
DN150	240	RD189.2 x 1/4	215	150



NO.2103017