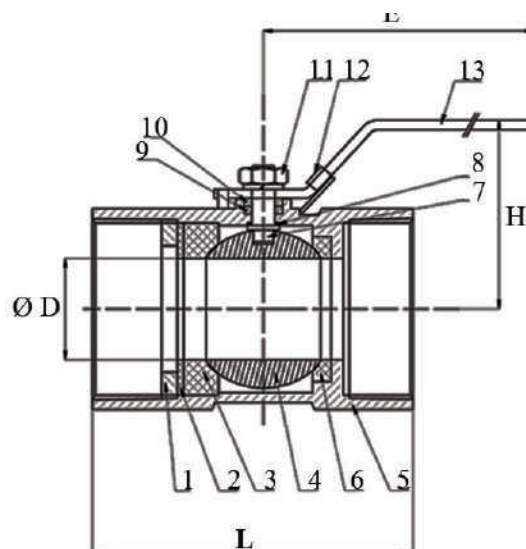


## Stainless Steel 1PC Ball Valve, BSPT (Heavy)

Model : SBA-S116H



### Specification Standards :

- Threaded end according to BSPT standard

### Features :

- Investment casting body
- Reduce port, 1 piece body design
- Lever handle operation
- Test and inspection EN12266 , MSS SP-110
- Available upon special request

### Application :

- For general and industrial services
- Applicable medium : water , oil & gas

### Materials :

No.	Description	Material
1	Bonnet	SS316/304
2	Washer	SS304
3	Seat	PTFE / RPTFE
4	Ball	SS316/304
5	Body	CF8M/CF8
6	Seat	PTFE
7	Stem	SS316/304
8	O-ring	PTFE
9	Stem packing	PTFE
10	Packing gland	SS304
11	Nut	SS201
12	Locking device	SS201
13	Handle	SS201

### Test Requirements

Maximum Pressure	1000 PSI ( 68.9 Bar )
Shell Test Pressure	1500 PSI ( 103 Bar )
Applicable Temperature	-10 ~ 150 °C

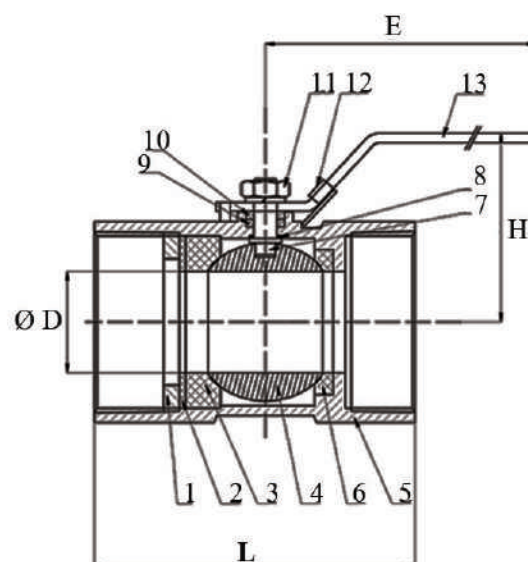
### Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
ΦD	9	12.5	15	20	25	32	38	48
L	59	58	68	76	80	97	119	141
H	40.5	42	52	58	58	60	92	97
E	94	97	112	128	142	149	172	174

## Stainless Steel 1PC Ball Valve, BSPT

Model : SBA-S104, SBA-S116



### Specification Standards :

- Threaded end according to BSPT standard

### Features :

- Investment casting body
- Reduce Port, 1 piece body design
- Lever handle operation
- Test and inspection EN12266 , MSS SP-110
- Available upon special request

### Application :

- For general and industrial services
- Applicable medium : water , oil & gas

### Materials :

No.	Description	Material
1	Bonnet	SS304
2	Washer	SS304
3	Seat	PTFE / RPTFE
4	Ball	SS316/304
5	Body	CF8M/CF8
6	Seat	PTFE
7	Stem	SS316/304
8	O-ring	PTFE
9	Stem packing	PTFE
10	Packing gland	SS304
11	Nut	SS201
12	Locking device	SS201
13	Handle	SS201

### Test Requirements

Maximum Pressure	600 PSI ( 40 Bar )
Shell Test Pressure	900 PSI ( 60 Bar )
Applicable Temperature	-10 ~ 150 °C

### Dimensions

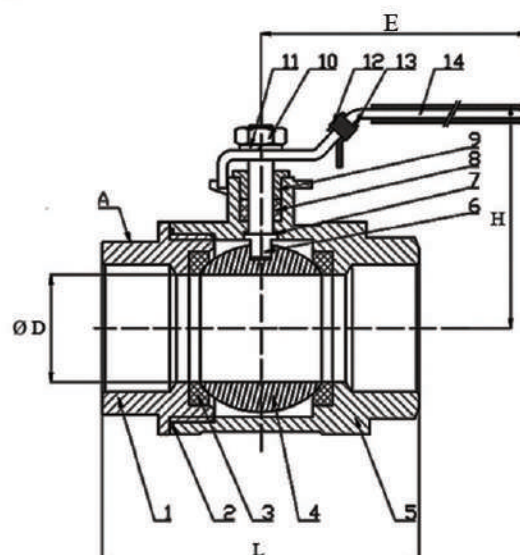
mm

Size	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
Ø D	5	7	9	12.5	15	20	25	32	38	48
L	40	45	52	57	67	80	80	92	119	141
H	33	33	39	43	52	61	63	63	92	97
E	74	77	89	91	110	120	121	140	172	174



## Stainless Steel 2PC Ball Valve, BSPT (Heavy)

Model : SBA-S216H



### Specification Standards :

- Threaded end according to BSPT standard

### Features :

- Investment casting body
- 2 piece body design, full port
- Locking device
- Lever handle operation
- Adjustable stem packing
- Test and inspection EN12266 , MSS SP-110
- Available upon special request

### Application :

- For general and industrial services
- Applicable medium : water , oil & gas

### Test Requirements

Maximum Pressure	1000 PSI ( 68.9 Bar )
Shell Test Pressure	1500 PSI ( 103 Bar )
Applicable Temperature	-10 ~ 150 °C

### Materials :

No.	Description	Material
1	Cap	CF8M
2	Body gasket	CF8M/CF8
3	Seat	PTFE / RPTFE
4	Ball	CF8M/CF8
5	Body	CF8M/CF8
6	Stem	SS316/304
7	Washer	PTFE
8	Stem packing	PTFE
9	Packing gland	SS201
10	Nut	SS201
11	Spring washer	SS201
12	Pin	Plastic
13	Locking device	SS201
14	Handle	SS201

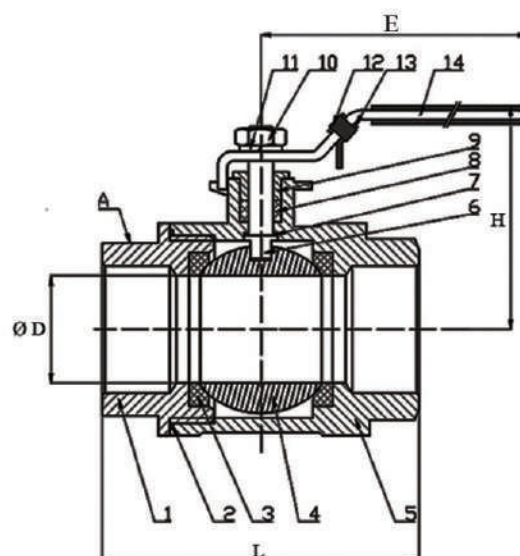
### Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
A	21	31	38.5	48	53.5	67	82	97	124
E	98	113	119	137	169	173	221	245	320
H	57	66	69	80	92	106	133	142	169
L	63	71	81	94.5	104	119	143	168	207
ØD	15	20	25	32	40	50	65	80	100

## Stainless Steel 2PC Ball Valve, BSPT

Model : SBA-S204, SBA-S216



### Specification Standards :

- Threaded end according to BSPT standard

### Features :

- Investment casting body
- Full Port, 2 piece body design
- Locking device
- Lever handle operation
- Adjustable stem packing
- Test and inspection EN12266 , MSS SP-110
- Available upon special request

### Application :

- For general and industrial services
- Applicable medium : water , oil & gas

### Materials :

No.	Description	Material
1	Cap	CF8M
2	Body gasket	CF8M/CF8
3	Seat	PTFE / RPTFE
4	Ball	CF8M/CF8
5	Body	CF8M/CF8
6	Stem	SS316/304
7	Washer	PTFE
8	Stem packing	PTFE
9	Packing gland	SS201
10	Nut	SS201
11	Spring washer	SS201
12	Pin	Plastic
13	Locking device	SS201
14	Handle	SS201

### Test Requirements

Maximum Pressure	600 PSI ( 40 Bar )
Shell Test Pressure	900 PSI ( 60 Bar )
Applicable Temperature	-10 ~ 150 °C

### Dimensions

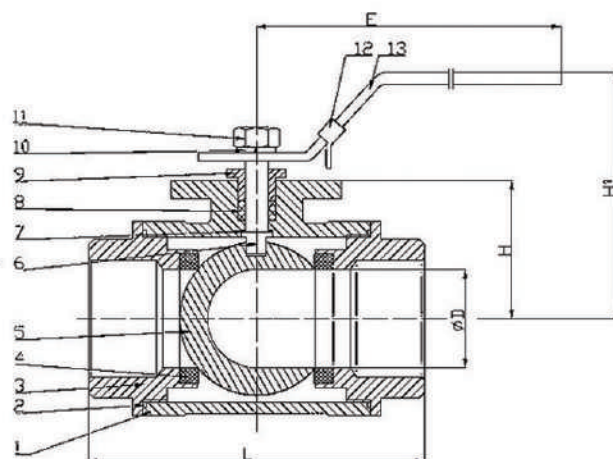
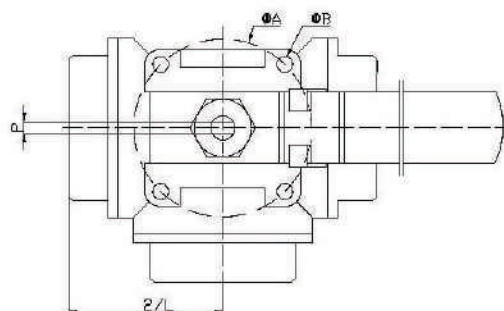
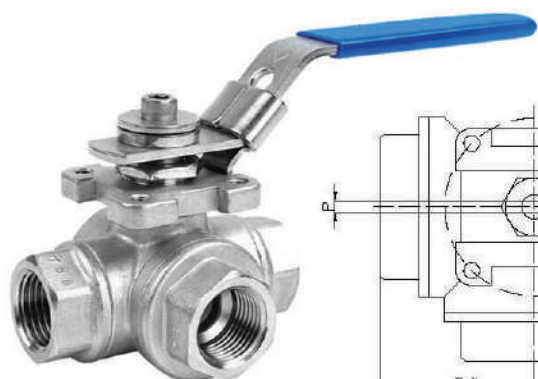
mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
A	21	31	38.5	48	53.5	67	82	97	124
L	54	61	73	77	94	103	140	166	207
H	50	57	63	76	92	102	140	142	169
E	92	97	118	124	144	154	221	245	320
ØD	15	20	25	32	40	50	65	80	100



## Stainless Steel 3Way Ball Valve, BSPT (T/L Port)

Model : S3MBA-S316T, S3MBA-S316L



### Specification Standards :

- Pipe threaded in accordance : BSPT

### Features :

- Investment casting body
- 3 way body design, T/L port
- Locking device, lever handle operation
- ISO mounting pad 5211
- Test and inspection EN12266 , MSS SP-110
- Available upon special request

### Application :

- For general and industrial services
- Applicable medium : water, oil, gas

### Materials :

No.	Parts	Material
1	Body	CF8M / CF8
2	Body gasket	PTFE
3	Cap	CF8M / CF8
4	Seat	PTFE / RPTFE
5	Ball	CF8M / CF8
6	Stem	SS316 / SS304
7	Thrust washer	PTFE
8	Stem packing	PTFE
9	Stop nut	SS201
10	Spring washer	SS201
11	Stem nut	SS201
12	Locking device	SS201
13	Handle	SS201

### Test Requirements

Maximum Pressure	600 PSI ( 40 Bar )
Shell Test Pressure	900 PSI ( 60 Bar )
Applicable Temperature	-10 ~ 150 °C

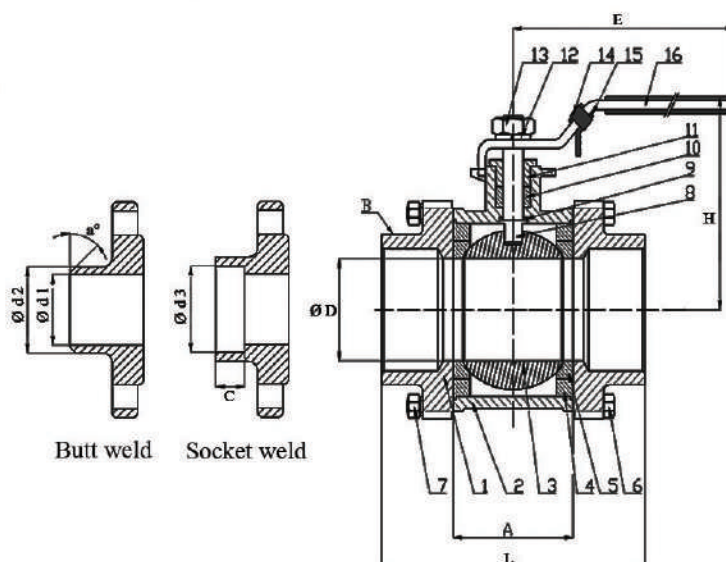
### Dimensions

mm

Size			1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
E	120	120	120	120	160	160	175	175
H	28	28	28	33	35.5	44.5	52	57
H1	60.5	60.5	60.5	60.5	71	80	95.5	100.5
L	50	50	72	80	87	112	132	145
P	5	5	5	6	7	7	9	9
ØA	36	36	36	42	42	42	50	50
ØB	M5	M5	M5	M5	M5	M5	M6	M6
ØD	8	8	12	15	18	25	32	38

## Stainless Steel 3PC Ball Valve, BSPT (Heavy)

Model : SBA-S316H



### Specification Standards :

- Pipe threaded in accordance : BSPT, Butt Weld

### Features :

- Investment casting body
- 3 Piece body design, full port
- Locking device
- Lever handle operation
- Test and inspection EN12266 , MSS SP-110
- Available upon special request

### Application :

- For general and industrial services
- Applicable medium : water , oil & gas

### Dimensions for Butt weld and Socket weld mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
a°	37.5	37.5	37.5	37.5	37.5	37.5
C	10	13	13	16	16	17
φd1	15	20	25	32	38	49
φd2	22	26	34	42	47	59
φd3	21.8	27.5	34	42.7	48.9	61.5

### Materials :

NO.	Description	Material
1.	Cap	CF8M/CF8
2.	Body	CF8M/CF8
3.	Ball	CF8M/CF8
4.	Seat	PTFE / RPTFE
5.	Seat	PTFE / RPTFE
6.	Bolt	SS201
7.	Nut	SS201
8.	Stem	SS316/304
9.	Washer	PTFE
10.	Stem packing	PTFE
11.	Packing gland	SS201
12.	Nut	SS201
13.	Spring washer	SS201
14.	Pin	Plastic
15.	Locking device	SS201
16.	Handle	SS201

### Dimensions

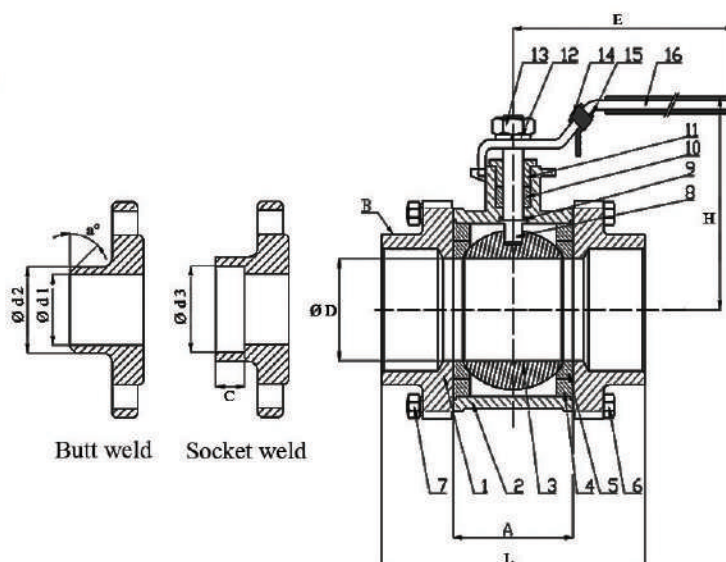
mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
A	27	34	38	41	53	67	87	101	124
B	22	32.5	39	48.5	54.5	87	92	99	121
E	98	106	114	133	168	169	221	245	320
H	56	61	75	87	94	109	134	147	180
L	69	79	88	101	110	131	167	192	242
φD	15	20	25	32	38	49	65	78	98



## Stainless Steel 3PC Ball Valve, BSPT

Model : SBA-S304, SBA-S316



### Specification Standards :

- Pipe threaded in accordance : BSPT, Butt Weld

### Features :

- Investment casting body
- Full Port, 3 Piece body design
- Locking device
- Lever handle operation
- Test and inspection EN12266 , MSS SP-110
- Available upon special request

### Application :

- For general and industrial services
- Applicable medium : water , oil & gas

### Dimensions for Butt weld and Socket weld mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
a°	37.5	37.5	37.5	37.5	37.5	37.5
C	10	13	13	16	16	17
φd1	15	20	25	32	38	49
φd2	22	26	34	42	47	59
φd3	21.8	27.5	34	42.7	48.9	61.5

### Materials :

NO.	Description	Material
1.	Cap	CF8M/CF8
2.	Body	CF8M/CF8
3.	Ball	CF8M/CF8
4.	Seat	PTFE / RPTFE
5.	Seat	PTFE / RPTFE
6.	Bolt	SS201
7.	Nut	SS201
8.	Stem	SS316/304
9.	Washer	PTFE
10.	Stem packing	PTFE
11.	Packing gland	SS201
12.	Nut	SS201
13.	Spring washer	SS201
14.	Pin	Plastic
15.	Locking device	SS201
16.	Handle	SS201

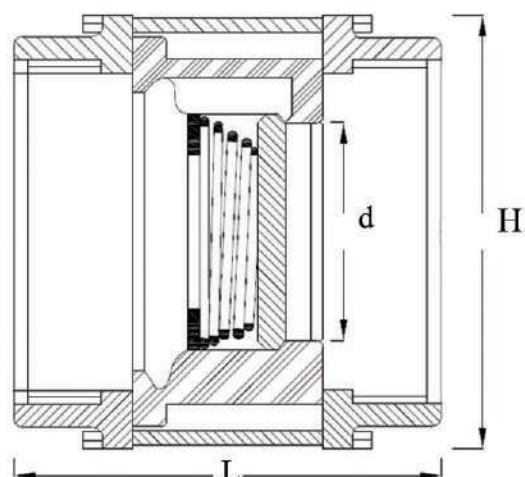
### Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
A	27	34	38	41	53	67	87	101	124
B	22	32.5	39	48.5	54.5	87	92	99	121
E	98	106	114	133	168	169	221	245	320
H	56	61	75	87	94	109	134	147	180
L	69	79	88	101	110	131	167	192	242
φD	15	20	25	32	38	49	65	78	98

## Stainless Steel 3PCS Disco Check Valve, BSPT

Model : SDI3-S16



### Specification Standards :

- Threaded end according to BSPT standard

### Features :

- Investment casting body
- 3 Piece body design
- Test and inspection EN12266, MSS SP-110
- Available upon special request

### Materials :

No.	Parts	Material
1	Body	SS316
2	Disc	SS316
3	Spring	SS316
4	Retainer	SS316
5	Cap	SS316
6	Gasket	PTFE
7	Bolt	SS304
8	Nut	SS304
9	Spring washer	SS304

### Test Requirements

Working Pressure	600 PSI ( 40 Bar )
Maximum Pressure	900 PSI ( 60 Bar )
Shell Test Pressure	90 PSI ( 6 Bar )
Applicable Temperature	$\leq 150^{\circ}\text{C}$

### Application :

- For general and industrial services
- Applicable medium : water, oil, steam

### Dimensions

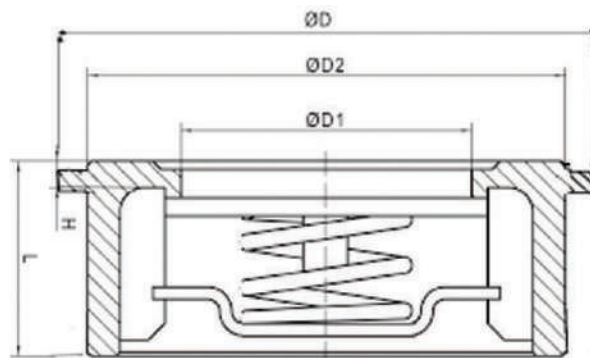
mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
d	15	20	25	32	40	50
H	44	52	61	72	78	93
L	66	63	70	83	88	106



## Stainless Steel 304 Wafer Type Disco Check Valve, Universal, PN16

Model : SDI1-FU304



### Specification Standards :

- Designed as standard : BS5155, DIN3202, ISO5752
- Flange as standard : DIN, BS, UNI, ISO, ANSI, JIS

### Features :

- Wafer type connection
- The valve are designed to prevent reverse flow automatically

### Application :

- For general and industrial services
- Applicable medium : water, oil, steam

### Materials :

No.	Parts	Material
1	Body	CF8 / CF8M
2	Bonnet	CF8 / CF8M
3	Spring	SS304 / SS316

Test Requirements	
Working pressure	150 PSI (10 Bar)
Maximum Pressure	200 PSI (14 Bar)
Seat test	300 PSI (21 Bar)
Applicable temperature	< 200 °C

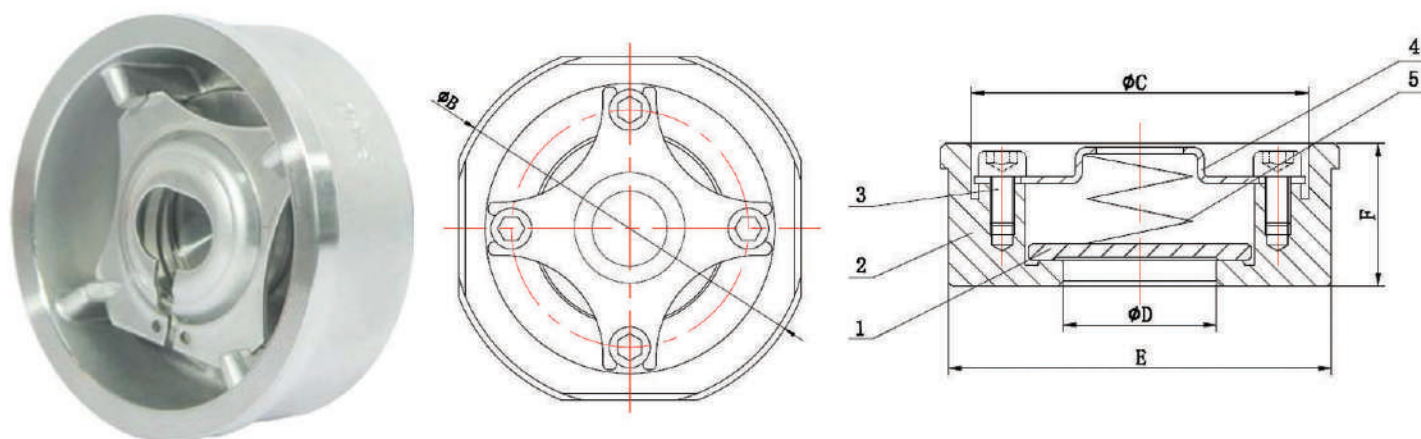
### Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
D	53	53	69	78	88	103	118	134	158
D1	15	20	25.4	30	38	47	62.5	77	96
D2	49	49	65	74	84	98	108	130	153
H	3	3	3.6	4	4.4	5	5.5	6	6.5
L	26	26	26	28	32	38.5	48	50	62

## Stainless Steel 316 Wafer Type Disco Check Valve, Universal, PN40

Model : SDI1-FU916



### Specification Standards :

- Design as standard : DIN2501, PN40
- Flange as standard : DIN, BS, UNI, ISO, ANSI, JIS
- Face to face dimensions : DIN3202-1999, K4

### Features :

- Wafer type connection
- The valve are designed to prevent reverse flow automatically

### Application :

- For general and industrial services
- Applicable medium : water, oil, steam

### Materials :

No.	Parts	Material
1	Disc	CF8M / CF8
2	Body	CF8M / CF8
3	Bolt	CF8M / CF8
4	Cover	CF8M / CF8
5	Spring	CF8M / CF8

### Test Requirements

Working pressure	600 PSI (40Bar)
Maximum Pressure	900 PSI (60Bar)
Seat test	900 PSI (40Bar)
Applicable temperature	< 200 °C

### Dimensions

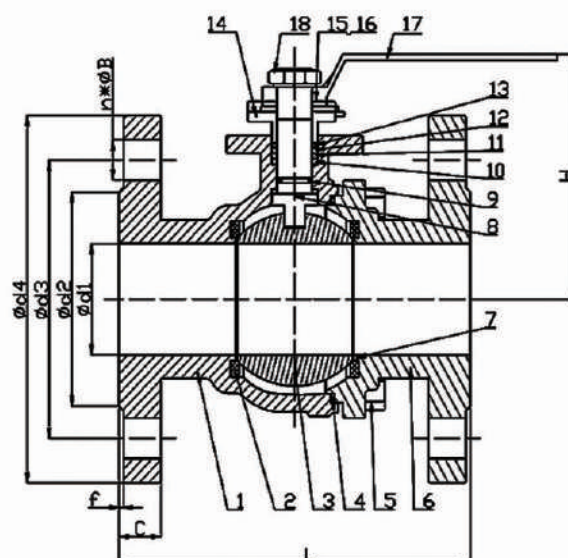
mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
B	53	63	73	84	94	107	126	144	164
D	15	20	25	30	38	47	62	71	95
E	84	53	63	75	86	95	115	131	151
F	16	19	22	28	31.5	40	46	50	60



## Stainless Steel Ball Valve, ANSI 150 PSI

Model : SBA-F204, SBA-F216



### Specification Standards :

- Basic design and manufacture according to ASME B16.34
- Inspection and tested according to API 598
- Face to face according to ASME B16.10
- Flange end according to ASME B16.5

### Features :

- 2-Piece body design, full port
- Lever handle operation
- Available upon special request

### Application :

- For general and industrial services
- Applicable medium : water, oil, gas

Test Requirements	
Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	≤ 150 °C

### Dimensions

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
b	10	11	12	13	15	16	18	19	24	24	26	29
D1	15	20	25	32	40	50	65	80	100	125	150	200
D2	34	42.5	50.5	64	73.2	90	106.2	128.8	159.7	186	216	270
D3	60.3	70	79.4	89	98.4	120.5	139.6	152.4	190.5	215.9	241.4	298.5
D4	90	100	110	120	130	152	180	194	233	255	278	344
f	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
L	109	114	128	142	162	179	191	201	229	257	394	457
nxØB	4-16	4-16	4-16	4-16	4-16	4-19	4-19	4-19	8-19	8-22	8-22	8-22

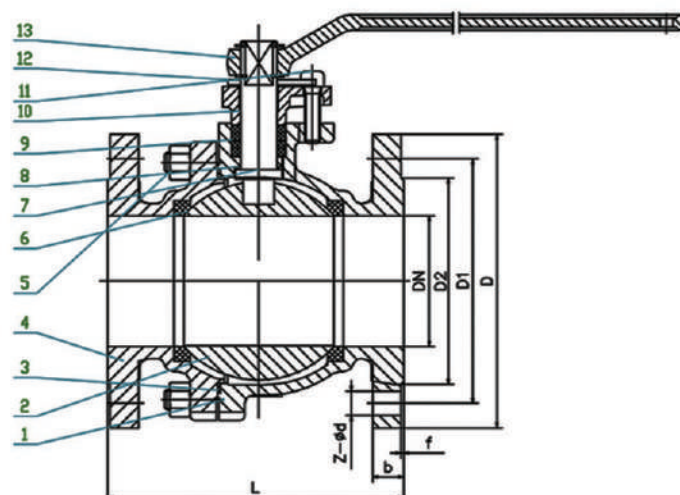
### Materials :

No.	Parts	Material
1	Body	CF8M / CF8
2	Seat	PTFE / RPTFE
3	Ball	CF8M / CF8
4	Seat	PTFE / RPTFE
5	Bolt	SS304
6	Cap	CF8M / CF8
7	Gasket	PTFE
8	Stem	CF8
9	Washer	PTFE
10	O-ring	PTFE
11	Packing	PTFE
12	Packing	PTFE
13	Packing	PTFE
14	Gland	CF8
15	Stopper	CF8
16	Locking plate	CF8
17	Handle	SS201
18	Nut	CF8

mm

## Stainless Steel Ball Valve, JIS 10K

Model : SBA-F104, SBA-F116



### Specification Standards :

- Basic design and manufacture according to JIS B2071
- Inspection and tested according to JIS B2003
- Face to face according to JIS B2002
- Flange end according to JIS B2212

### Features :

- 2-pieces body design, full port
- Lever handle operation
- Available upon special request

### Application :

- For general and industrial services
- Applicable medium : water, oil, gas

### Materials :

No.	Parts	Material
1	Body	CF8 / CF8M
2	Ball	304/ 316
3	Gasket	PTFE
4	Cap	CF8 / CF8M
5	Nut	SS304
6	Seat	PTFE / RPTFE
7	Stem	SS304
8	Gasket	PTFE
9	Packing	PTFE
10	Gland	CF8
11	Screw	SS304
12	Stop plate	SS304
13	Handle	SS201

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	≤ 150 °C

### Dimensions

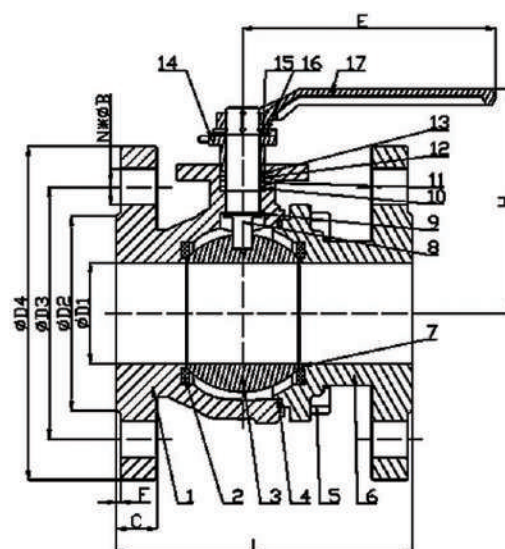
mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
b	12	14	14	16	16	16	18	18	18	20	22	22
D	95	100	125	135	140	155	175	185	210	250	280	330
D1	70	75	90	100	105	120	140	150	175	210	240	290
DN	15	20	25	32	40	50	65	80	100	125	150	200
Dz	51	56	67	76	81	96	116	126	151	182	212	262
f	1	1	1	2	2	2	2	2	2	2	2	2
Z - Ød	4-15	4-15	4-19	4-19	4-19	4-19	4-19	8-19	8-19	8-23	8-23	12-23
L	108	116	126	140	164	181	188	203	220	310	353	459



## Stainless Steel Ball Valve, PN 16

Model : SBA-F304, SBA-F316



### Specification Standards :

- Basic design and manufacture according to DIN 3357
- Inspection and tested according to DIN 3230
- Face to face according to DIN 3230
- Flange end according to DIN EN 1092

### Features :

- 2-pieces body design, full port design
- Lever handle operation
- Available upon request

### Application :

- For general and industrial services
- Applicable medium : water, oil, gas

### Materials :

No.	Parts	Material
1	Body	CF8M / CF8
2	Seat	PTFE / RPTFE
3	Ball	CF8M / CF8
4	Seat	PTFE / RPTFE
5	Bolt	SS304
6	Cap	CF8M / CF8
7	Gasket	PTFE
8	Stem	CF8
9	Washer	PTFE
10	O-ring	PTFE
11	Packing	PTFE
12	Packing	PTFE
13	Packing	PTFE
14	Gland	CF8
15	Stopper	CF8
16	Locking plate	CF8
17	Handle	SS201

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	≤ 150 °C

### Dimensions

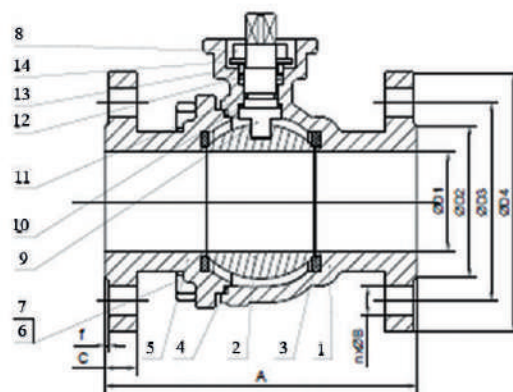
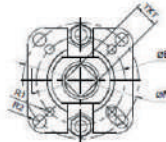
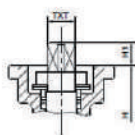
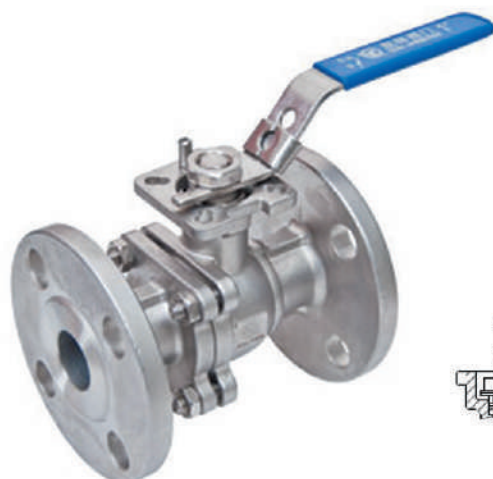
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Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"
C	14	16	16	18	18	20	20	22	24	26	26	30	32
D1	15	20	25	32	40	50	65	80	100	125	150	200	250
D2	45	55	65	78	85	120	120	135	155	185	210	265	320
D3	65	75	85	100	110	125	145	160	180	210	240	295	355
D4	95	100	115	140	150	165	185	200	220	250	285	340	405
E	135	135	170	170	200	200	330	330	330	550	550	850	850
F	2	2	2	2	2	2	2	2	2	2	2	2	2
H	85	90	99	105	126	140	165	178	230	280	310	350	400
L	115	120	125	130	140	150	170	180	190	325	350	400	450
N*ØB	4-14	4-14	4-14	4-18	4-18	4-18	4-18	8-19	8-18	8-18	8-22	12-22	12-26



## Stainless Steel Ball Valve, With High Mounting Pad, ANSI 150 PSI

Model : SMBA-F204, SMBA-F216



### Specification Standards :

- Basic design and manufacture according to ASME B16.34
- Inspection and tested according to API 598
- Face to face according to ASME B16.10
- Flange end according to ASME B16.5

### Features :

- 2-Piece body design, full port
- Lever handle operation
- Available upon special request
- Come with ISO High Mounting Pad 5211

### Application :

- For general and industrial services
- Applicable medium : water, oil, gas

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	≤ 150 °C

### Materials :

No.	Description	Material
1	Body	CF8 / CF8M
2	Ball	CF8 / CF8M
3	Seat	PTFE
4	Gasket	PTFE
5	Cap	CF8 / CF8M
6	Bolt	SS304
7	Nut	SS304
8	Gland	SS316 / SS304
9	Stem	SS316 / SS304
10	Thrust washer	PTFE
11	O-ring	Viton
12	Stem packing	PTFE
13	Washer	SS304
14	Belleville washer	SS304

### Dimensions

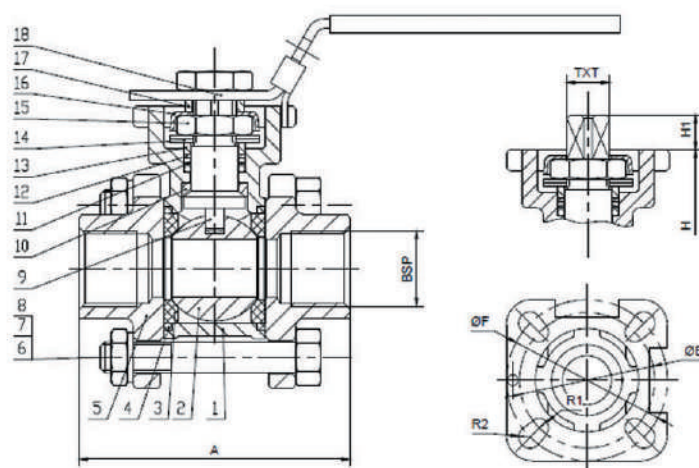
mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
A	108	117	127	140	165	178	190	203	229	356	394	457
C	14.1	14.6	14.6	16.1	18.5	19.0	21.1	22.1	25.1	24.0	25.5	28.6
D1	15	20	25	32	40	50	65	80	100	125	150	200
D2	34	42.3	50.5	64	73.2	90	106.2	128.8	159.7	186	216	270
D3	60.3	70	79.4	89	98.4	120.5	139.5	152.5	190.5	215.9	241.4	298.5
D4	90	100	110	120	130	152	180	194	233	255	278	344
f	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
H	58	65	74	82	96	116	132	145	150	185	205	255
H1	4	5	10	10	14	15.5	16	18	20	25	28	35
nxØB	4-16	4-16	4-16	4-16	4-19	4-19	4-19	4-19	8-19	8-22	8-22	8-22
R1	6	6	6	6	8	8	10	10	10	12	14	14
R2	6	6	8	8	10	10	12	12	12	14	16	16
T X T	9X9	9X9	11X11	11X11	14X14	14X14	17X17	17X17	19X19	22X22	24X24	24X24



## Stainless Steel Ball Valve, With High Mounting Pad, BSPT

Model : SMBA-S304, SMBA-S316



### Specification Standards :

- Pipe threaded in accordance : BSPT, Butt Weld

### Features :

- Investment casting body
- 3 Piece body design, full port
- Locking device
- Lever handle operation
- Test and inspection EN12266 , MSS SP-110
- Available upon special request
- Come with ISO High Mounting Pad 5211

### Application :

- For general and industrial services
- Applicable medium : water , oil & gas

### Materials :

NO.	Description	Material
1.	Body	CF8 / CF8M
2.	Ball	CF8 / CF8M
3.	Seat	PTFE
4.	Gasket	PTFE
5.	Cap	CF8 / CF8M
6.	Bolt	SS304
7.	Washer	SS304
8.	Nut	SS304
9.	Stem	SS316 / SS304
10.	Stem washer	PTFE
11.	Packing	PTFE
12.	Washer	PTFE
13.	Gland	SS304
14.	Dish shrapnel	SS304
15.	Nut	SS304
16.	Locator	SS304
17.	Washer	SS304
18.	Handle	SS201

### Test Requirements

Maximum Pressure	600 PSI ( 40 Bar )
Shell Test Pressure	900 PSI ( 60 Bar )
Applicable Temperature	-10 ~ 150 °C

### Dimensions

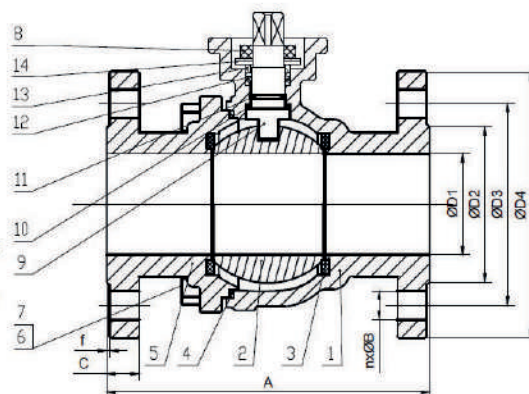
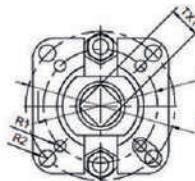
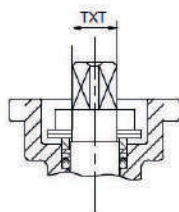
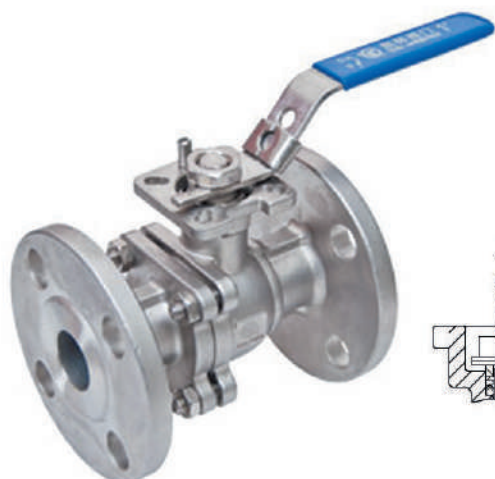
Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
A	62	72	77	92	102	120	167	192	242
E	36	36	42	42	50	50	70	70	70
F	42	42	50	50	70	70	102	102	102
H	49	55	67	75	84	92	111	123	130
H1	11	11	13	13	13.5	13	14	18	19
R1	6	6	6	6	7	7	9	9	9
R2	6	6	7	7	9	9	11	11	11
T X T	9x9	9x9	11x11	11x11	14x14	14x14	17x17	17x17	17x17

mm



## Stainless Steel Ball Valve, With High Mounting Pad, JIS10K

Model : SMBA-F104, SMBA-F116



### Specification Standards :

- Basic design and manufacture according to JIS B2071
- Inspection and tested according to JIS B2003
- Face to face according to JIS B2002
- Flange end according to JIS B2212

### Features :

- 2-pieces body design, full port
- Lever handle operation
- Available upon special request
- Come with ISO High Mounting Pad 5211

### Application :

- For general and industrial services
- Applicable medium : water, oil, gas

### Materials :

No.	Description	Material
1	Body	CF8 / CF8M
2	Ball	CF8 / CF8M
3	Seat	PTFE
4	Gasket	PTFE
5	Cap	CF8 / CF8M
6	Bolt	SS304
7	Nut	SS304
8	Gland	SS316 / SS304
9	Stem	SS316 / SS304
10	Thrust washer	PTFE
11	O-ring	Viton
12	Stem packing	PTFE
13	Washer	SS304
14	Belleville washer	SS304

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	≤ 150 °C

### Dimensions

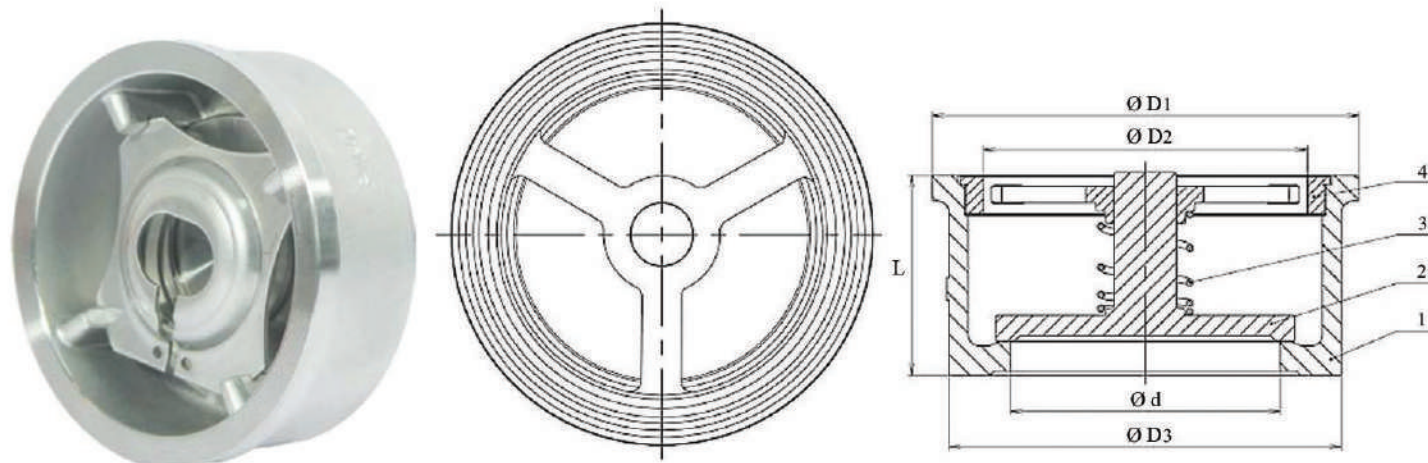
mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"
A	108	117	127	140	165	178	190	203	229	356
C	12	14	14	16	16	16	18	18	18	20
D1	15	20	25	32	40	50	65	80	100	125
D2	51	56	67	76	81	96	116	126	151	182
D3	70	75	90	100	105	120	140	150	175	210
D4	95	100	125	135	140	155	175	185	210	250
E	36	36	42	42	50	50	70	70	70	102
F	42	42	50	50	70	70	102	102	102	125
f	1	1	1	2	2	2	2	2	2	2
nxØB	4-15	4-15	4-19	4-19	4-19	4-19	4-19	8-19	8-19	8-23
R1	6	6	6	6	8	8	10	10	10	12
R2	6	6	8	8	10	10	12	12	12	14
T X T	9X9	9X9	11X11	11X11	14X14	14X14	17X17	17X17	19X19	22X22



## Stainless Steel Wafer Type Disco Check Valve, Universal

Model : SDI1-FU16



### Specification Standards :

- Designed as standard : BS5155, DIN 3202
- Flange as standard : DIN, BS

### Features :

- Wafer type connection
- The valve are designed to prevent reverse flow automatically

### Application :

- For general and industrial services
- Applicable medium : water, oil, steam

### Materials :

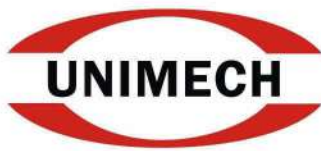
No.	Parts	Material
1	Body	SS304 / SS316 / WCB
2	Disc	SS304 / SS316 / WCB
3	Spring	SS304 / SS316
4	Retainer	SS304 / SS316 / WCB

Test Requirements	
Working pressure	600 PST (40Bar)
Maximum Pressure	900 PST (60Bar)
Seat test	900 PST (40Bar)
Applicable temperature	< 120 °C

### Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"
D1	50	58	68	80	92	104	130	146	170	193	220	285	336
D2	28	35	43	52	63	75	95	108	126	144	177	228	250
D3	33	41	48	60	73	83	102	120	139	175	208	266	302
d	15	20	25	32	40	50	65	80	100	125	150	200	250
L	16	20	22	28	32	40	46	50	60	90	95	127	140



UNIMECH GROUP, THAILAND



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## STAINLESS STEEL PIPE FITTINGS WITH BSPT



End Cap



Elbow 45 Deg



Elbow 90 Deg



Street Elbow



Hexagon Bush



Hexagon Nipple



Reducing Nipple



Hose Nipple



Pipe Nipple



Square Plug



Socket



Reducing Socket



Equal Tee



Reducing Tee



Cross Tee



Teflon Union



Union M/F



Elbow Union



Jam Nut

<b>SIZE RANGES</b>	1/8" - 4"	
<b>MATERIAL</b>	SUS 304	SUS 316
<b>CONNECTION</b>	BSPT THREAD	
<b>MATERIAL STANDARD</b>	ASTM A351	
<b>DESIGN STANDARD</b>	ISO 49-1983(E) MSS SP-114	
<b>HEAT NUMBER TRACING</b>	MILL CERTIFICATE WILL BE PROVIDED UPON DELIVERY	

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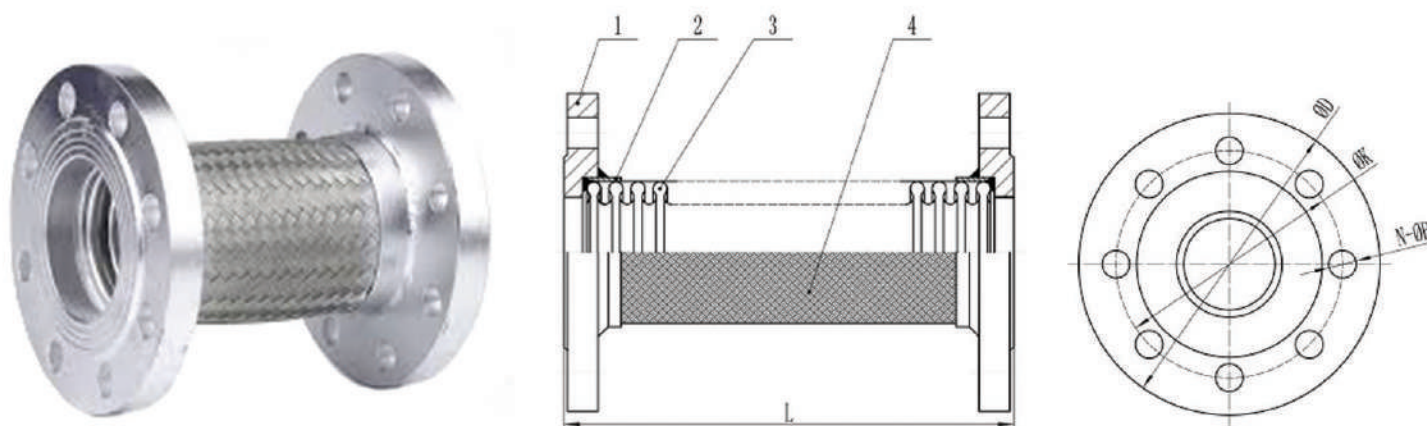


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## Stainless Steel Flexible Hose, ANSI 150 PSI

Model : SFH3-F204



### Application :

- ARITA braided metal flexible joints are designed to control vibration, reduce noise, relieve stress, prevent system shock and compensate for misalignment and movement. Use of ARITA braided metal flexible joints for applications such as pumps, compressors, and other mechanical equipment will enhance the overall operation of the system.
- Flexible hose by itself, when subjected to high pressure can over-extend past the ability to operate properly it is necessary, therefore, to include an external flexible restraint (i.e. braid) to withstand the specified internal pressure and fastened to the ends of both hose and fittings. This braid sheath is designed to be strong enough to withstand elongation for the full pressure rating of the hose.
- Inner hoses and braids can be made from a variety of different metals to meet industry needs.
- Many kinds of connections (unions, flanges, couplings) with various materials are available on your request. Please consult us.

### Materials :

No.	Parts	Material
1	Flanges	SUS304 / SS400
2	Seal rings	SUS304
3	Bellows	SUS304
4	Braids	SUS304

### Specification Standards :

- Flange end according to DIN EN 1092
- Length of Bellows is available upon special request

Test Requirements	
Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	≤ 150 °C

### Dimensions

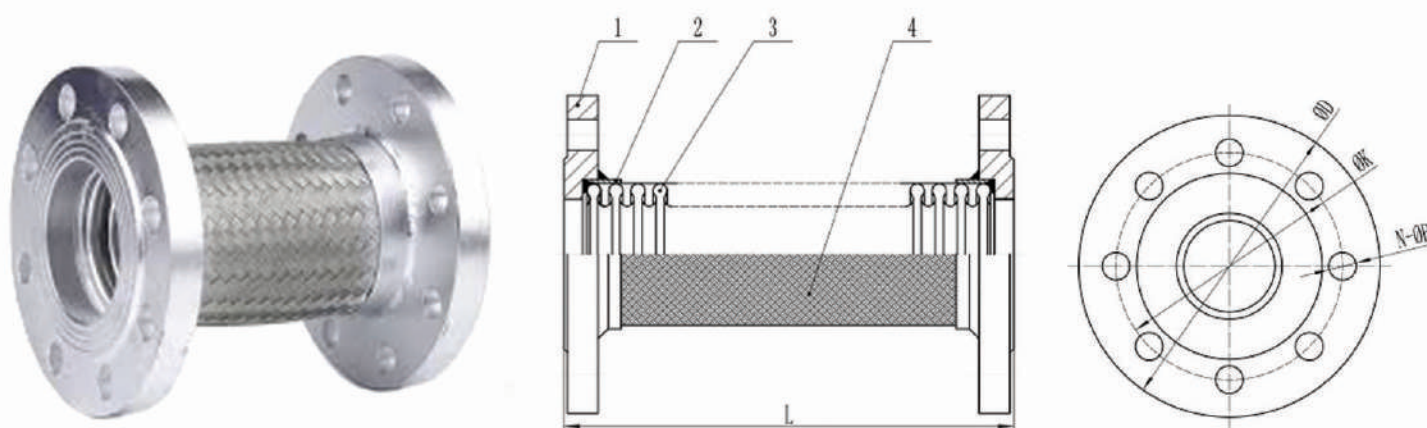
mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
B	15.7	15.7	15.7	15.7	15.7	19.1	19.1	19.1	19.1	22.4	22.4	22.4	25.4	25.4
D	88.5	98.6	108.0	117.3	127.0	152.4	177.8	190.5	228.6	254.0	279.4	342.9	406.4	482.6
K	60.5	69.9	79.2	88.9	98.6	120.7	139.7	152.4	190.5	215.9	241.3	298.5	362.0	431.8
L	300	300	300	300	300	300	300	300	300	300	300	300	300	300
N	4	4	4	4	4	4	4	8	8	8	8	12	12	16



## Stainless Steel Flexible Hose, JIS 10K

Model : SFH3-F104



### Application :

- ARITA braided metal flexible joints are designed to control vibration, reduce noise, relieve stress, prevent system shock and compensate for misalignment and movement. Use of ARITA braided metal flexible joints for applications such as pumps, compressors, and other mechanical equipment will enhance the overall operation of the system.
- Flexible hose by itself, when subjected to high pressure can over-extend past the ability to operate properly it is necessary, therefore, to include an external flexible restraint (i.e. braid) to withstand the specified internal pressure and fastened to the ends of both hose and fittings. This braid sheath is designed to be strong enough to withstand elongation for the full pressure rating of the hose.
- Inner hoses and braids can be made from a variety of different metals to meet industry needs.
- Many kinds of connections (unions, flanges, couplings) with various materials are available on your request. Please consult us.

### Materials :

No.	Parts	Material
1	Flanges	SUS304 / SS400
2	Seal rings	SUS304
3	Bellows	SUS304
4	Braids	SUS304

### Specification Standards :

- Flange end according to DIN EN 1092
- Length of Bellows is available upon special request

Test Requirements	
Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	≤ 150 °C

### Dimensions

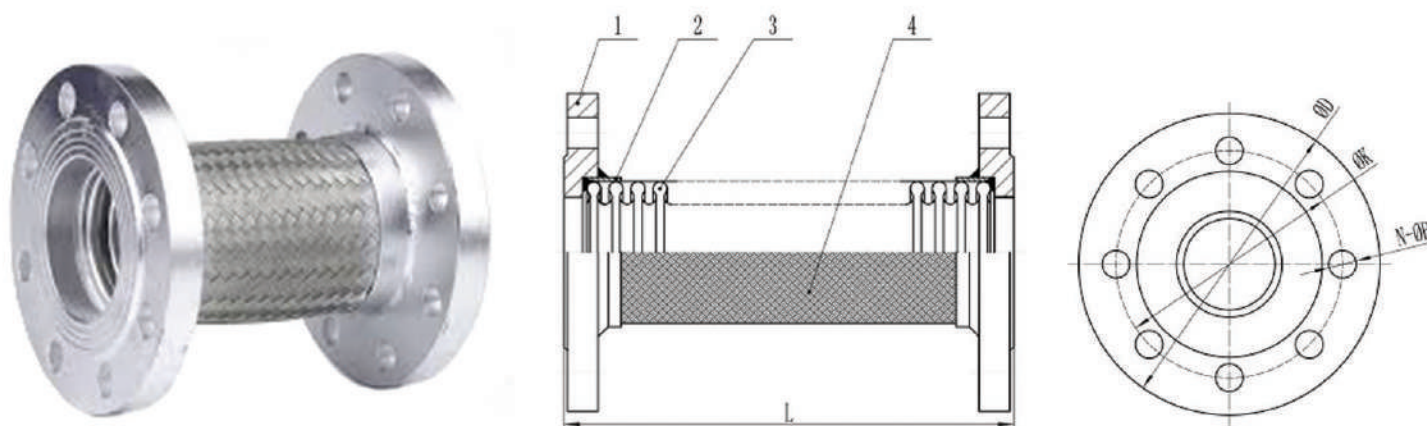
mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
B	15	15	19	19	19	19	19	19	23	23	25	25	27	27
D	95	100	125	120	140	155	175	185	210	250	280	330	400	445
K	70	75	90	100	105	120	140	150	175	210	240	290	355	400
L	300	300	300	300	300	300	300	300	300	300	300	300	300	300
N	4	4	4	4	4	4	4	8	8	8	8	12	12	16



## Stainless Steel Flexible Hose, PN 16

Model : SFH3-F304



### Application :

- ARITA braided metal flexible joints are designed to control vibration, reduce noise, relieve stress, prevent system shock and compensate for misalignment and movement. Use of ARITA braided metal flexible joints for applications such as pumps, compressors, and other mechanical equipment will enhance the overall operation of the system.
- Flexible hose by itself, when subjected to high pressure can over-extend past the ability to operate properly it is necessary, therefore, to include an external flexible restraint (i.e. braid) to withstand the specified internal pressure and fastened to the ends of both hose and fittings. This braid sheath is designed to be strong enough to withstand elongation for the full pressure rating of the hose.
- Inner hoses and braids can be made from a variety of different metals to meet industry needs.
- Many kinds of connections (unions, flanges, couplings) with various materials are available on your request. Please consult us.

### Materials :

No.	Parts	Material
1	Flanges	SUS304 / SS400
2	Seal rings	SUS304
3	Bellows	SUS304
4	Braids	SUS304

### Specification Standards :

- Flange end according to DIN EN 1092
- Length of Bellows is available upon special request

Test Requirements	
Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	≤ 150 °C

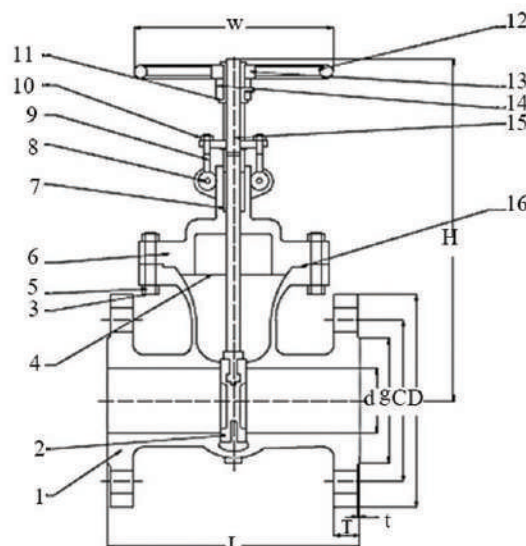
### Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
B	11	12	14	18	18	18	18	18	18	18	23	23	27	27
D	95	105	115	140	150	165	185	200	220	250	285	340	405	460
K	65	75	85	100	110	125	145	160	180	210	240	295	355	410
L	300	300	300	300	300	300	300	300	300	300	300	300	300	300
N	4	4	4	4	4	4	4	8	8	8	8	12	12	12

## Stainless Steel Gate Valve (Outside Screw), JIS 10K

Model : SGA-F104, SGA-F116



### Specification Standards :

- Face to face according to JIS B2002
- Flange ends according to JIS B2212

### Features :

- Bolted bonnet, outside screw and yoke. rising stem
- Solid wedge disc design
- Hand - wheel operator
- Available upon special request

### Application :

- For general and industrial services
- Applicable medium : water, light oil

### Materials :

No.	Parts	Material
1	Body	SS316 / SS304
2	Disc	SS316 / SS304
3	Nut	SS304
4	Gasket	Graphite
5	Bolt	SS304
6	Bonnet	SS316 / SS304
7	Stem packing	Graphite
8	Hinge pin	SS304
9	Bolt	A193 - B8
10	Nut	A194 - 8
11	Sleeve	SS304
12	Wheel handle	Cast iron
13	Stem nut	A193 - B8
14	Gland	SS304
15	Stem	SS304
16	Gland	SS316 / SS304

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	$\leq 150^{\circ}\text{C}$

### Dimensions

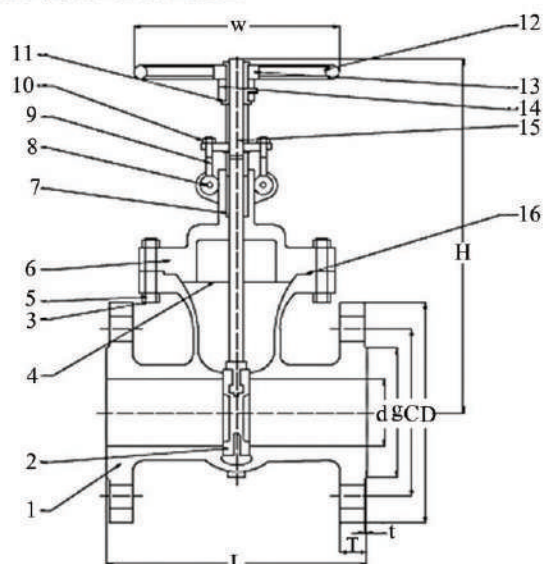
mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
C	70	75	90	100	105	120	140	155	175	210	240	290
D	95	100	125	135	140	155	175	185	210	250	280	330
d	15	20	25	32	40	50	65	80	100	125	150	200
g	51	56	67	76	81	96	116	126	151	182	212	262
H	180	194	235	295	295	338	393	467	549	630	750	915
L	108	117	127	140	165	179	190	205	229	257	269	294
T	12	14	14	16	16	16	18	18	18	20	22	22
t	1	1	1	2	2	2	2	2	2	2	2	2
W	120	120	120	200	200	200	200	250	250	300	300	350



## Stainless Steel Gate Valve (Outside Screw), ANSI 150 PSI

Model : SGA-F204, SGA-F216



### Specification Standards :

- Basic design and manufacture according to ASME B16.34
- Inspection and tested according to API598
- Face to face according to ASME B16.10
- Flange ends according to ASME 16.5

### Features :

- Bolted bonnet, outside screw and yoke. rising stem
- Solid wedge disc design
- Hand - wheel operator
- Available upon special request

### Application :

- For general and industrial services
- Applicable medium : water, light oil

### Materials :

No.	Parts	Material
1	Body	CF8M / CF8
2	Disc	CF8M / CF8
3	Nut	SS304
4	Gasket	Graphite
5	Bolt	SS304
6	Bonnet	CF8M / CF8
7	Stem packing	Graphite
8	Hinge pin	SS304
9	Bolt	A193 - B8
10	Nut	A194 - 8
11	Sleeve	SS304
12	Wheel handle	Cast iron
13	Stem nut	A193 - B8
14	Gland	SS304
15	Stem	SS304
16	Gland	CF8M / CF8

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	$\leq 150^{\circ}\text{C}$

### Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
C	60.5	70	79.5	89	98.5	120.5	139.5	152.5	190.5	216	241.5	298.5
D	89	98	108	117	127	152	178	190	229	254	279	343
d	15	20	25	32	40	50	65	80	100	125	150	200
g	35	43	51	64	73	92	105	127	157	186	216	270
H	180	194	235	295	295	338	393	467	549	630	750	915
L	108	117	127	140	165	176	191	204	230	255	267	294
T	12.1	12.1	12.1	12.7	14.3	15.9	17.5	19.1	23.9	23.9	25.4	28.5
t	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
W	120	120	120	200	200	200	200	250	250	300	300	350

## Stainless Steel Gate Valve, BSPT

Model : SGA-S04, SGA-S16



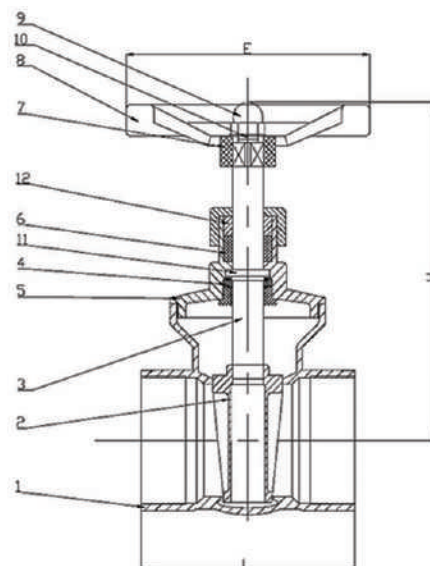
### Specification Standards :

- Threaded end according to BSPT standard

### Features :

- Investment casting body
- Hand - wheel operator
- Test and inspection EN1266, MSS SP-110
- Available upon special request

Test Requirements	
Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	$\leq 150^{\circ}\text{C}$



### Materials :

No.	Parts	Material
1	Body	CF8M / CF8
2	Disc	CF8M / CF8
3	Stem	SS316 / 304
4	Body gasket	PTFE
5	Cap	CF8M / CF8
6	Stem seal	PTFE
7	Stop nut	CF8M / CF8
8	Wheel handle	Aluminium
9	Stem nut	SS201
10	Washer	SS201
11	Stop gasket	SS304
12	Gland	SS304

### Application :

- For general and industrial services
- Applicable medium : water, oil, gas

### Dimensions

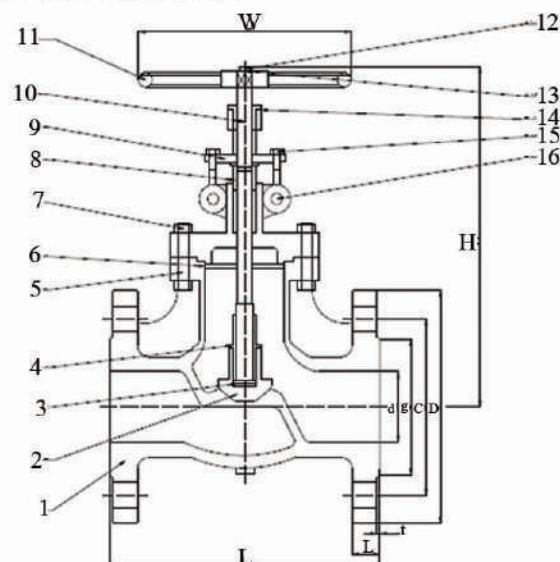
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Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
DN	15	20	25	32	40	50	65	80
H	93	105	115	130	145	170	200	218
L	55	60.5	64	70.5	78	88	106.5	116.5
ΦE	70	70	80	80	100	100	125	125



## Stainless Steel Globe Valve (Outside Screw), ANSI 150 PSI

Model : SGL-F204, SGL-F216



### Specification Standards :

- Basic design and manufacture according to ASME B16.34
- Inspection and tested according to API 598
- Face to face according to ASME B16.10
- Flange end according to ASME B16.5

### Features :

- Bolted bonnet, outside screw and yoke, rising stem
- Plug disc design
- Hand - wheel operator
- Available upon special request

### Application :

- For general and industrial services
- Applicable medium : water, oil

### Materials :

No.	Parts	Material
1	Body	CF8M / CF8
2	Disc	CF8M / CF8
3	Half ring	SS304
4	Disc cover	CF8M / CF8
5	Bolt	A194 - B8
6	Gasket	Graphite
7	Nut	A194 - 8
8	Stem packing	Graphite
9	Bonnet	CF8M / CF8
10	Stem	SS304
11	Wheel	Cast iron
12	Stem nut	SS304
13	Nut	A194 - 8
14	Bolt	SS304
15	Washer	SS304
16	Bolt	A193-8

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	$\leq 150^{\circ}\text{C}$

### Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
C	60.5	70	79.5	89	98.5	120.5	139.5	152.5	190.5	216	241.5	298.5	362	432
D	89	98	108	117	127	152	178	190	229	254	279	343	406	483
d	15	20	25	32	40	50	65	80	100	125	150	200	250	300
g	35	43	51	64	73	92	105	127	157	186	216	270	324	368
H	180	190	200	245	250	260	315	330	395	450	540	675	835	985
L	108	117	127	140	165	204	217	244	293	257	405	495	622	698
T	12.1	12.1	12.1	12.1	14.3	15.9	17.5	19.1	23.9	23.9	25.4	28.6	30.2	31.8
t	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
W	140	140	140	160	160	200	200	250	250	300	350	350	400	400

## Stainless Steel Globe Valve, BSPT

Model : SGL-S04, SGL-S16



### Specification Standards :

- Threaded end according to BSPT standard

### Features :

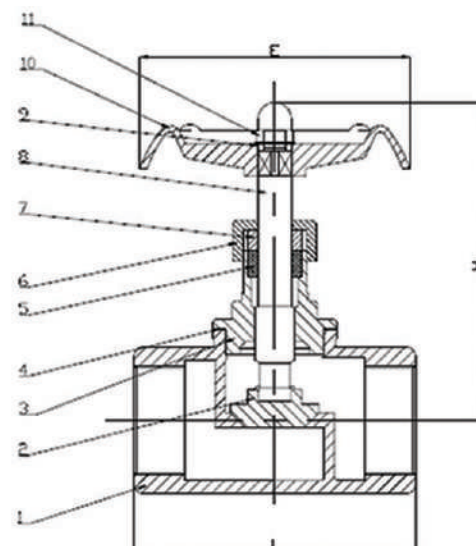
- Investment casting body
- Hand - wheel operator
- Test and inspection EN1266, MSS SP-110
- Available upon special request

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	$\leq 150^{\circ}\text{C}$

### Dimensions

Size	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
DN	6	10	15	90	97	115	125	139	180	198
H	80	80	82	90	97	115	125	139	180	198
L	60	60	62	72	81	102	116	136.5	164	189
E	70	70	70	70	70	90	90	90	115	115



### Materials :

No.	Parts	Material
1	Body	CF8M / CF8
2	Disc	CF8M / CF8
3	Cap	CF8M / CF8
4	Body gasket	PTFE
5	O - ring packing	PTFE
6	Cap nut	CF8M
7	Gland	SS304
8	Stem	SS316/304
9	Washer	SS201
10	Stem nut	SS201
11	Wheel handle	Aluminium

### Application :

- For general and industrial services
- Applicable medium : water, oil, gas

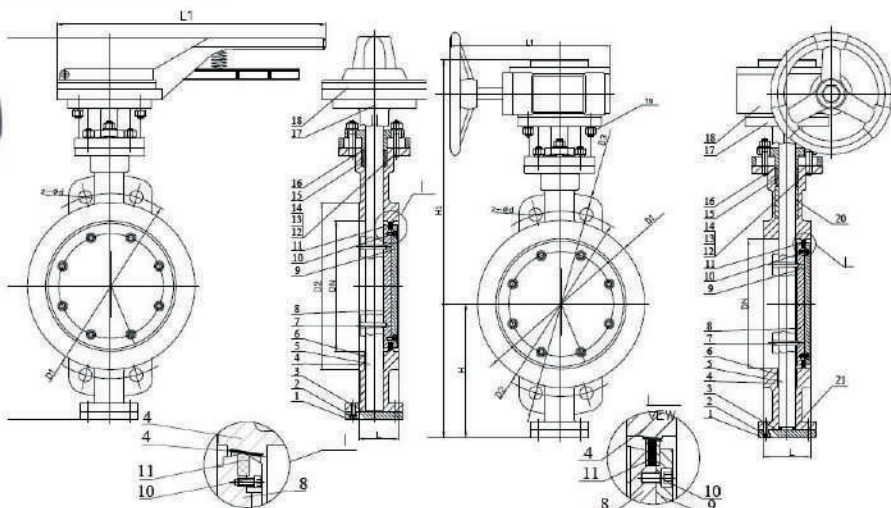






## Stainless Steel High Performance Wafer Type Butterfly Valve, Universal

Model : SHPBF-M04L, SHPBF-M16L, SHPBF-M04G, SHPBF-M16G



### Specification Standards :

- Designed as standard : BS5155, DIN3202, ISO5752
- Flange as standard : DIN, BS, UNI, ISO, ANSI, JIS
- Top mounting flange as standard : ISO5211

### Features :

- Wafer type connections
- Lever operator
- Concentric design

### Application :

- For general and industrial services
- Applicable medium : Water, Oil

### Materials :

No.	Parts	Material
1	Cover	A351 / CF8M
2	Hex bolt	A193 B8
3	Gasket	Graphite
4	Body	A351 / CF8M
5	Stem	A351 / CF8M
6	Bearing	A351 / CF8M
7	Pin	SS304
8	Disc	A351 / CF8M
9	Pressure plate	A351 / CF8M
10	Hex bolt	A193 B8
11	Sealing ring	304+Graphite
12	Nut	A194 8
13	Bolt	A193 B8
14	Spring pad	SS304
15	Packing	Graphite
16	Gland	A351-CF8
17	Yoke	A216 WCB
18	Gear box	GGG40
19	Bolt	A193 B7
20	Bearing	ZCuA19Mn2
21	Thrust bearing	STD

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	≤ 250 °C

### Dimensions

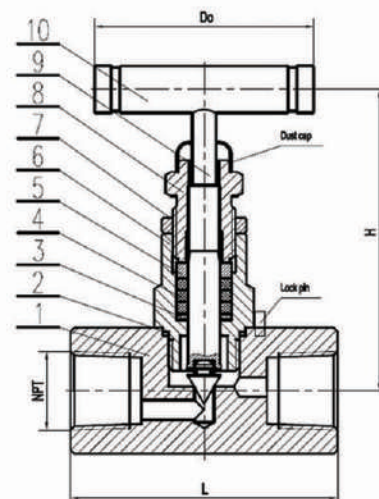
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Size	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
D1	120.7	139.7	152.4	190.5	186	216	270	324	381	413	469	533	585	629
D2	92	105	127	157	216	241.5	298.5	362	432	476.5	540	578	635	749
H	378	389	435	469	365	415	520	575	678	730	830	920	990	1210
L	43	48	48	54	56	57	64	71	81	92	102	114	127	154
L1	275	275	275	275	85	85	130	198	198	198	198	198	198	198
Z-Ød	4-Ø19	4-Ø19	4-Ø19	8-Ø19	8-Ø22	8-Ø22	8-Ø22	12-Ø25	12-Ø25	12-Ø29	16-Ø29	16-Ø32	20-Ø32	20-Ø35



## Stainless Steel Needle Valve, NPT, Class 6000 PSI

Model : SND-N16



### Specification Standards :

- Threaded end according to NPT standard

### Features :

- Screwed end NPT connections
- Handle operator
- Investment casting body
- High pressure applied up to 6000 Psi
- Available upon special request

### Application :

- For general and industrial services
- Applicable medium : water, steam, oil

### Materials :

No. Parts	Material
1 Body	SS316 / SS304 / A105
2 Supports	SS316 / SS304 / SS304
3 Packing seat	SS316 / SS304 / 2Cr13
4 Packing	PTFE
5 Pressure ring	SS316 / SS304 / 2Cr13
6 Bonnet	SS316 / SS304 / A105
7 Panel nut	SS316 / SS304 / A105
8 Packing bolt	SS316 / SS304 / A105
9 Stem	SS316 / SS304 / 2Cr13
Disc	SS316 / SS304 / 2Cr13
10 Handle	Aluminium

### Test Requirements

Working Pressure	40.0 PSI ( 400 Bar )
Shell Test Pressure	60.0 PSI ( 600 Bar )
Applicable Temperature	$\leq 150^{\circ}\text{C}$

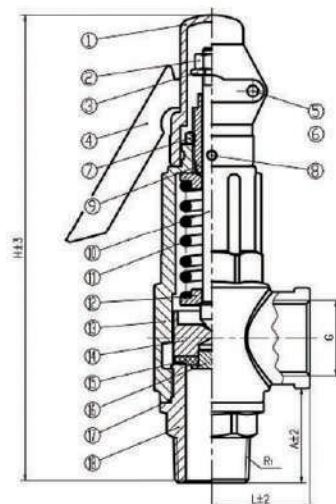
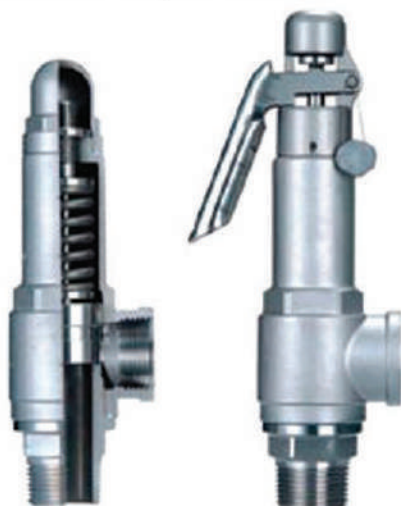
### Dimensions

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Size	1/4"	3/8"	1/2"	3/4"	1"
D0	57	57	63	80	90
H	64	64	76	95	100
L	57	57	68	80	90

## Stainless Steel Safety Valve, Metal Seat, BSPT

Model : SSV-ML, SSV-MNL



### Specification Standards :

- Design for durability
- Compact affordable alternative for air, steam, gas, water, oil, etc under 150 PSI
- Available in DN15 - DN50 inlets
- Ideal overpressure protection for steam boiler, sterilizers, distillers, cookers, piping system & unfired pressure vessels

### Features :

- Screwed end BSPT connection
- Full port
- Screwed body cap
- Spring loaded
- Stainless steel spring

### Application :

- For general and industrial services
- Applicable medium : water, oil, & non-corrosive and non-combustible gas, steam

### Note :

- Material's table refer to the lever type
- Maximum working pressure 10 Bar

### Materials :

No.	Parts	Material
1	Bonnet	SS304
2	Looked nut2	SS304
3	Looked nut1	SS304
4	Lever	SS304
5	Pin	SS304
6	Ring	SS304
7	Locked nut	SS304
8	Screw	SS304
9	Adjustable nut	SS304
10	Spindle	SS304
11	Spring	SS304
12	Spring seat	SS304
13	Valve body	SS304
14	Disc	SS304
15	Gasket (white)	PTFE
16	Valve seat	SS304

### Dimensions

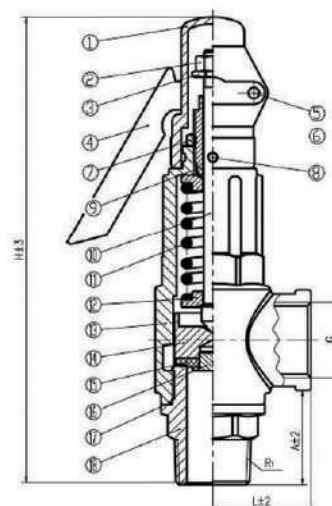
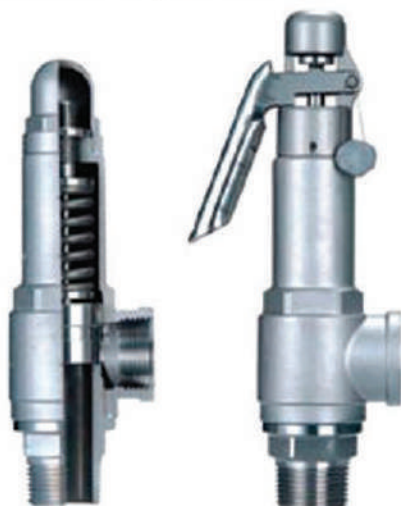
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Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	Test Requirements	
A	32.5	36.5	41.5	50.5	54.5	62.5	Working Pressure	150 PSI ( 10 Bar )
G	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	Maximum Pressure	200 PSI ( 14 Bar )
H	162.5	187	207.5	239.5	256.5	293	Shell Test Pressure	300 PSI ( 21 Bar )
L	31.5	35	43.5	55	58	70	Applicable Temperature	<250 °C
R1	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"		



## Stainless Steel Safety Valve, RPTFE Seat, BSPT

Model : SSV-RL, SSV-RNL



### Specification Standards :

- Design for durability
- Compact affordable alternative for air, steam, gas, water, oil, etc under 150 PSI
- Available in DN15 - DN50 inlets
- Ideal overpressure protection for steam boiler, sterilizers, distillers, cookers, piping system & unfired pressure vessels

### Features :

- Screwed end BSPT connection
- Full port
- Screwed body cap
- Spring loaded
- Stainless steel spring

### Application :

- For general and industrial services
- Applicable medium : water, oil, & non-corrosive and non-combustible gas, steam

### Note :

- Material's table refer to the lever type
- Maximum working pressure 10 Bar

### Materials :

No.	Parts	Material
1	Bonnet	SS304
2	Looked nut2	SS304
3	Looked nut1	SS304
4	Lever	SS304
5	Pin	SS304
6	Ring	SS304
7	Locked nut	SS304
8	Screw	SS304
9	Adjustable nut	SS304
10	Spindle	SS304
11	Spring	SS304
12	Spring seat	SS304
13	Valve body	SS304
14	Disc	SS304
15	Sealig gasket	PTFE
16	Locked nut	SS304
17	Gasket (white)	PTFE
18	Valve seat	SS304

### Dimensions

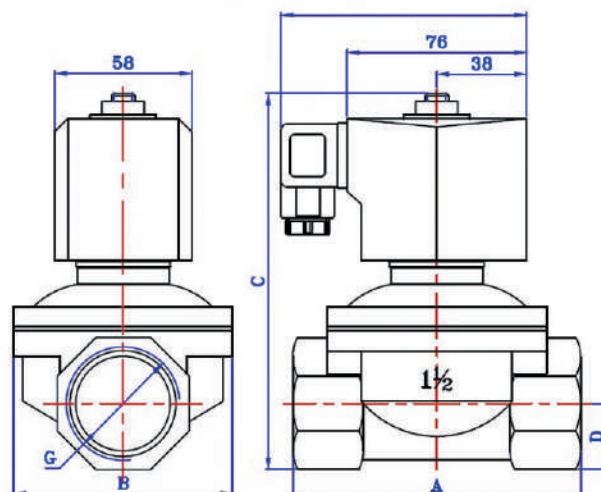
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Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
A	32.5	36.5	41.5	50.5	54.5	62.5
G	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
H	162.5	187	207.5	239.5	256.5	293
L	31.5	35	43.5	55	58	70
R1	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"

Test Requirements	
Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	<250 °C

## Stainless Steel 2/2 Way Solenoid Valve, BSPT ( Water )

Model : SAW-S16



### Specification Standards :

- Force lifting, direct acting type, diaphragm structure, can be work at 0 pressure, expanding the using area
- Plate diaphragm structure, high reliability, long life
- Valve body can be made from brass, stainless steel
- Plastic encapsulating coil, be able to use under numerous enviroment

### Features :

- Can be installed in any position but the level condition to keep coil upside best for long life
- Small volume, high flow, little electric power required
- Coil is design to turn in free direction
- Normally closed type
- DIN Coil IP65
- Voltage : 240 VAC, 50Hz
- Optional : 24 VAC, 50Hz
- Available upon special request

### Note :

- Please clean up the inside of pipes before fitted
- A strainer or filter has to be installed one meter away from the solenoid valve

### Materials :

No.	Parts	Material
1	Diaphragm	Viton
2	Body	SUS316
3	Stem	SUS316
4	Coil	Plastic

### Application :

- For general and industrial services
- Applicable medium : water, light oil, air, chemical

Test Requirements	
Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	≤ 120 °C

### Dimensions

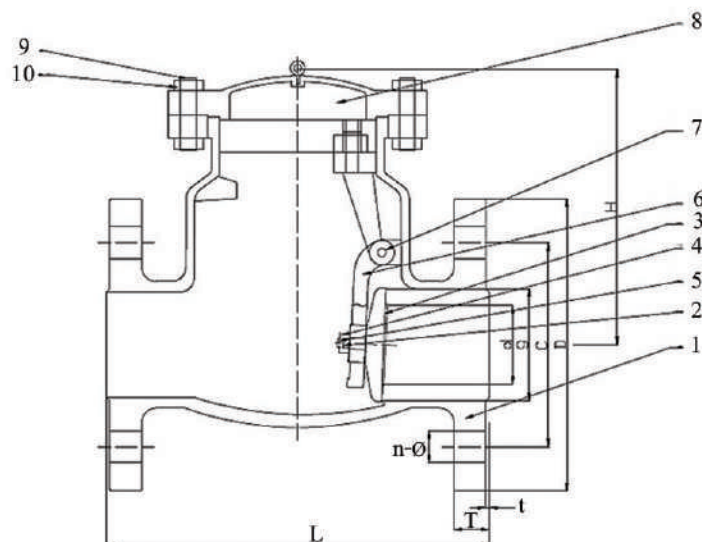
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Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
A	68	72	98	115	122	160
B	56	56	76	87	93	118
C	102	110	118	148	157	180
D	13.5	16.5	20.5	24	28	36



## Stainless Steel Swing Check Valve, ANSI 150 PSI

Model : SSW-F204, SSW-F216



### Specification Standards :

- Basic design and manufacture according to ASME B16.34
- Inspection and tested according to API 598
- Face to face according to ASME B16.10
- Flange end according to ASME B16.5

### Features :

- Bolted cover
- The valve are designed to prevent reverse flow automatically
- Available upon request

### Materials :

No.	Parts	Material
1	Body	CF8M / CF8
2	Disc	CF8M / CF8
3	Gasket	GRAPHITE
4	Nut	A194-B8
5	Bolt	A193-8
6	Rocker arm	CF8M / CF8
7	Plug	GRAPHITE
8	Cap	SS304
9	Nut	A194-B8
10	Bolt	A193-8

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	$\leq 150^{\circ}\text{C}$

### Application :

- For general and industrial services
- Applicable medium : water, oil

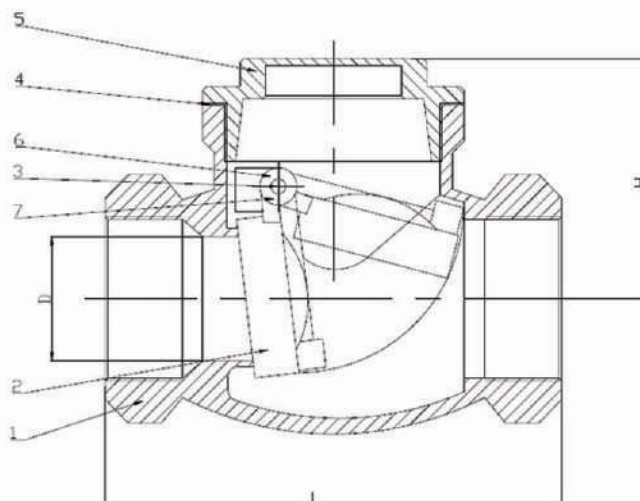
### Dimensions

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Size	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
C	88.9	98.4	120.7	139.7	152.7	190.5	215.9	241.5	298.5
D	115	125	150	180	190	230	255	280	345
d	32	40	50	65	80	100	125	150	200
g	63.5	73.5	91.9	104.6	127	157.2	185.7	215.9	269.7
H	120	130	140	160	185	210	250	300	380
L	140	165	203	216	245	294	329	356	492
n-Ø	4-18	4-18	4-18	8-18	8-18	8-23	8-25	8-25	12-25
T	18	18	20	22	22	24	28	30	34
t	2	3	3	3	3	3	3	3	3

## Stainless Steel Swing Check Valve, BSPT

Model : SSW-S04, SSW-S16



### Specification Standards :

- Threaded end according to BSPT standard

### Features :

- Investment casting body
- Test and inspection EN1266, MSS SP-110
- Available upon special request

### Application :

- For general and industrial services
- Applicable medium : water, oil

### Materials :

No.	Parts	Material
1	Disc	CF8M / CF8
2	Body	CF8M / CF8
3	Pin	SS316 / 304
4	Seat	PTFE
5	Cap	CF8M / CF8
6	Washer	SS201
7	Bolt	SS201

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	$\leq 150^{\circ}\text{C}$

### Dimensions

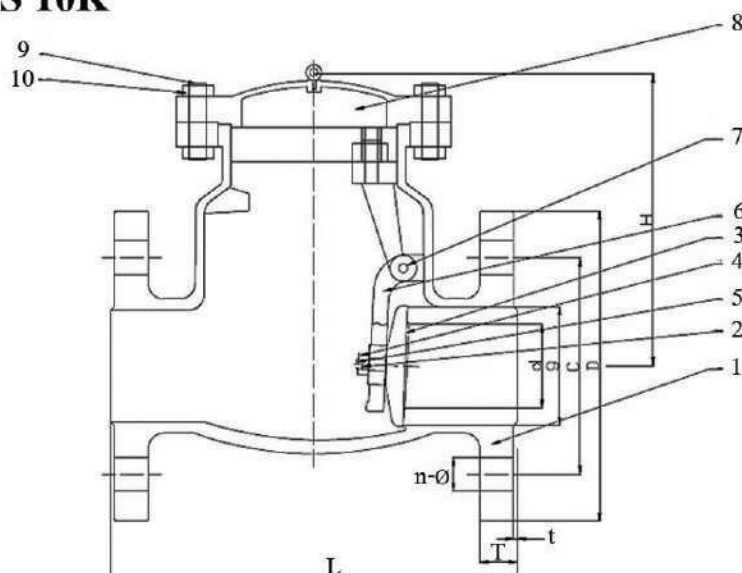
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Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
C	35	39.5	45	53.5	62	74
DN	15	20	25	32	40	50
H	41.5	45	49	53.5	58.5	67
L	62	78	84.5	101	115	135



## Stainless Steel Swing Check Valve, JIS 10K

Model : SSW-F104, SSW-F116



### Specification Standards :

- Face to face is according to JIS B2002
- Flange ends according to JIS B2212

### Features :

- Bolted cover
- The valve are designed to prevent reverse flow automatically
- Available upon request

Test Requirements	
Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	$\leq 150^{\circ}\text{C}$

### Materials :

No.	Parts	Material
1	Body	SS316 / SS304
2	Disc	SS316 / SS304
3	Gasket	GRAPHITE
4	Nut	A194-B8
5	Bolt	A193-8
6	Rocker arm	SS316 / SS304
7	Plug	GRAPHITE
8	Cap	SS304
9	Nut	A194-B8
10	Bolt	A193-8

### Application :

- For general and industrial services
- Applicable medium : water, oil

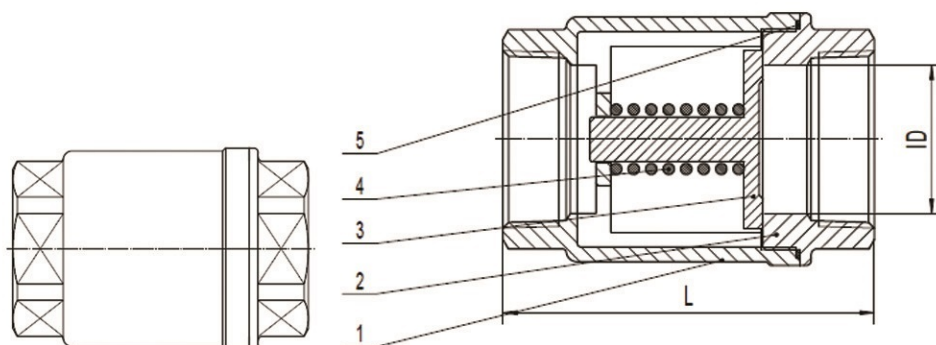
### Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
C	70	75	90	100	105	120	140	150	175	210	240	290
D	95	100	125	135	140	155	175	185	210	250	280	330
d	15	20	25	32	40	50	65	80	100	125	150	200
g	51	56	67	67	81	96	116	126	151	182	212	262
L	108	117	127	140	165	203	216	242	292	330	355	493
n-Ø	4-15	4-15	4-19	4-19	4-19	4-19	4-19	8-19	8-19	8-23	8-23	12-23
T	12	14	14	16	16	16	18	18	18	20	22	22
t	1	1	1	2	3	3	3	3	3	3	3	3

## Stainless Steel Valve Spring Check Valve, BSPT

Model : SSP-S04



### Specification Standards :

- Design & manufacture : ASTM B16.34
- Thread end : BSP, BSPT.

### Features :

- Screwed end BSPT/PP connection
- The valve are designed to prevent reverse flow automatically
- Spring in stainless steel
- Stem in stainless steel
- Spring load type disc

### Application :

- For general and industrial services
- Applicable medium : water, light oil, & non-corrosive and non-combustible gas

### Materials :

No.	Parts	Material
1	Body	CF8M / CF8
2	Bonnet	CF8M / CF8
3	Disc	CF8M / CF8
4	Spring	SS316 / SS304
5	Seal ring	PTFE

Test Requirements	
Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	200 °C

### Dimensions

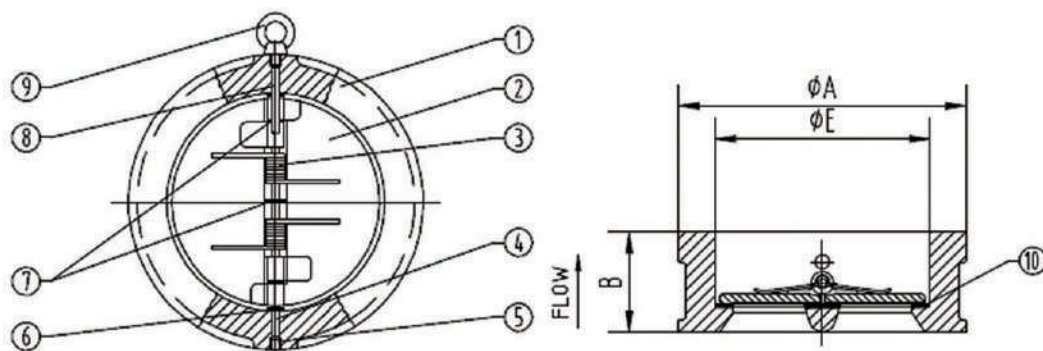
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Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Inner Diameter, ID	15	20	25	31	40	45
Length, L	58	62	74	86	98	112



## Stainless Steel Wafer Check Valve, Universal

Model : SDD-FU04 / SDD-FU16



### Specification Standards :

- Designed as standard : BS5155, DIN3202, ISO5752
- Flange as standard : DIN, BS, UNI, ISO, ANSI, JIS

### Features :

- Wafer type connections
- The valve are designed to prevent reverse flow automatically

### Application :

- For general and industrial services
- Applicable medium : water, light oil

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	< 120 °C

### Materials :

No.	Parts	Material
1	Body	CF8 / CF8M
2	Plate	CF8
3	Spring	Stainless Steel 304
4	Hinge Pin	Stainless Steel 304
5	Plug	CS
6	Body Bushing	PTFE
7	Spring Bushing	PTFE
8	Stop Pin	Stainless Steel 304
9	Eye Bolt	SS304 ( 8 '' )
10	Body Seat	EPDM / NBR / VITON

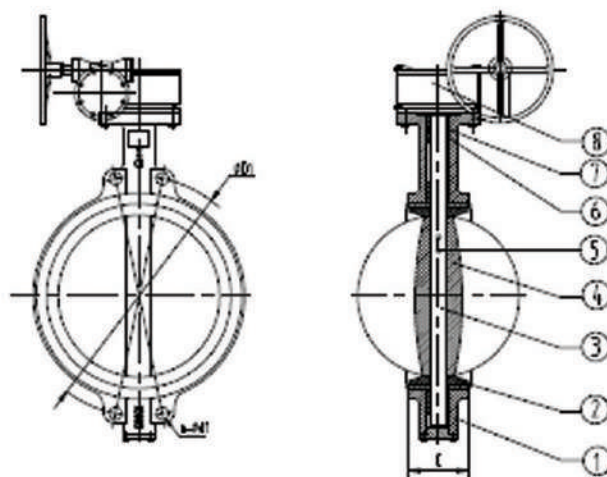
### Dimensions

mm

Size		B	E	A	A	A
IN	DN			DIN PN10/16	ANSI 150	JIS 10K
2''	50	43	65	107	102	101
2-1/2''	65	46	80	127	121	121
3''	80	64	94	142	133	131
4''	100	64	117	162	171	156
5''	125	70	145	192	193	187
6''	150	76	170	218	219	217
8''	200	89	224	273	276	267
10''	250	114	265	328	336	330
12''	300	114	310	378/382	406	375
14''	350	127	360	438/442	448	420
16''	400	140	410	488/495	511	483
18''	450	152	450	538/555	546	538
20''	500	152	505	592/617	603	593
24''	600	178	624	695/734	714	697

## Stainless Steel Wafer Type Butterfly Valve, Universal, Gear Operator

Model : SBF-T16G



### Specification Standards :

- Designed as standard : BS5155, DIN3202, ISO5752
- Flange as standard : DIN, BS, UNI, ISO, ANSI, JIS
- Top mounting flange as standard : ISO5211

### Features :

- Wafer type connections
- Lever operator
- Concentric design

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	$\leq 150^{\circ}\text{C}$

### Materials :

No.	Parts	Material
1	Body	CF8M
2	Seat	PTFE / RPTFE
3	Shaft	SS416
4	Disc	CF8M
5	Pin	SS316
6	Bushing	PTFE
7	O ring	NBR
8	Gear Operator	Components

### Application :

- For general and industrial services
- Applicable medium : water, oil

### Dimensions

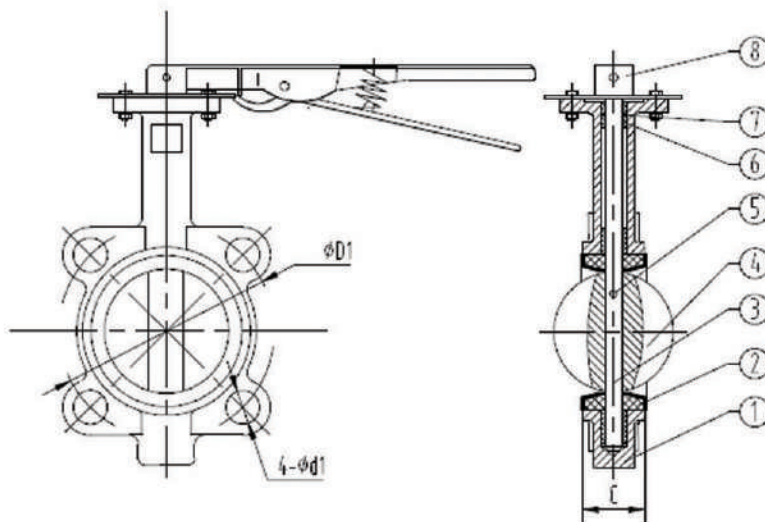
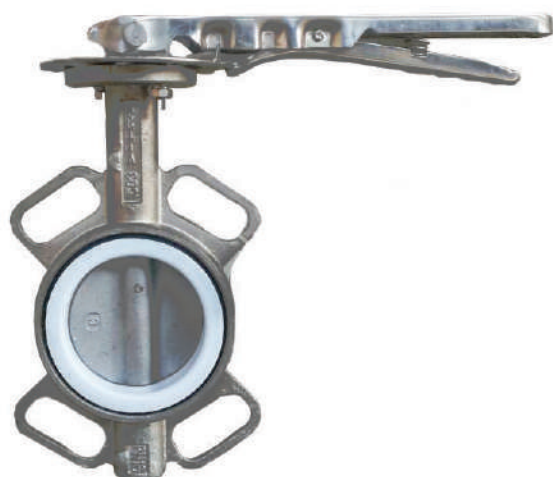
mm

Size	DN	C	DIN PN 10 / 16		ANSI 150		JIS 10K	
			D1	n-Ød1	D1	n-Ød1	D1	n-Ød1
4"	100	52.1	180	8-18	98.5	8-19	175	8-19
5"	125	54.4	210	8-18	120.5	8-22	210	8-23
6"	150	55.8	240	8-23	139.5	8-22	240	8-23
8"	200	60.6	295	8/12-23	152.5	8-22	290	12-23
10"	250	65.6	350 / 355	12-23/-27	190.5	12-25	355	12-25
12"	300	76.9	400 / 410	12-23/27	216	12-25	400	16-25
14"	350	76.5	460 / 470	16-23/27	241.5	12-29	400	16-25
16"	400	8.65	515 / 525	16-27/30	540	16-29	510	16-27
18"	450	105.6	565 / 585	20-27/30	578	16-32	565	20-27
20"	500	131.8	620 / 650	20-27/30	635	20-32	620	20-27
24"	600	152	725 / 770	20-30/36	745.5	20-35	400	24-33



## Stainless Steel Wafer Type Butterfly Valve, Universal, Lever Operator

Model : SBF-T16L



### Specification Standards :

- Designed as standard : BS5155, DIN3202, ISO5752
- Flange as standard : DIN, BS, UNI, ISO, ANSI, JIS
- Top mounting flange as standard : ISO5211

### Features :

- Wafer type connections
- Lever operator
- Concentric design

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	$\leq 150^{\circ}\text{C}$

### Materials :

No.	Parts	Material
1	Body	CF8M
2	Seat	PTFE / RPTFE
3	Shaft	SS416
4	Disc	CF8M
5	Pin	SS316
6	Bushing	PTFE
7	O ring	NBR
8	Gear Operator	Components

### Application :

- For general and industrial services
- Applicable medium : water, oil

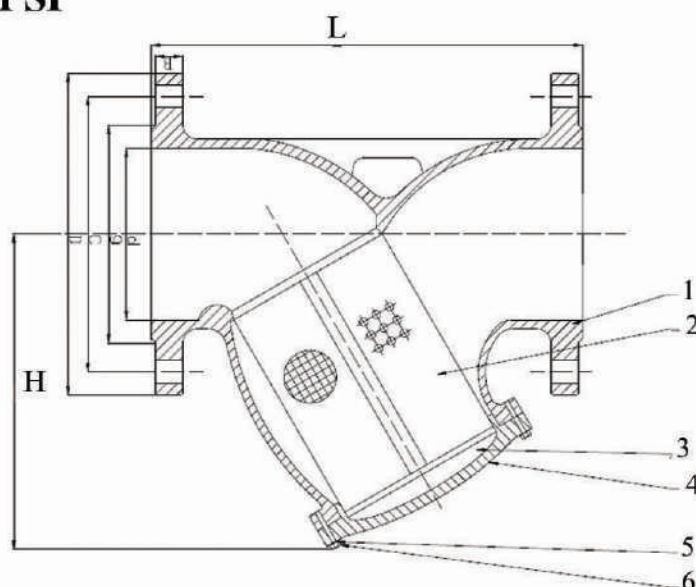
### Dimensions

mm

Size	C	DIN PN 10 / 16		ANSI 150		JIS 10K	
		D1	n-Ød1	D1	n-Ød1	D1	n-Ød1
1-1/2"	33	110	4-18	98.5	4-16	105	4-19
2"	42	125	4-18	120.5	4-19	120	4-19
2-1/2"	44.7	145	4-18	139.5	4-19	140	4-19
3"	44.2	160	4(4/8)-18	152.5	4-19	150	4(8)-19
4"	52	180	4(8)-18	190.5	4(8)-19	175	4(8)-19
5"	54.4	210	4(8)-18	216	4(8)-22	210	4(8)-23
6"	55.8	240	4(8)-23	241.5	4(8)-22	240	4(8)-23
8"	62.2	295	4(8/12)-23	298.5	4(8)-22	290	4(12)-23
10"	66	350 / 355	4(12)-23/27	362	4(12)-25	355	4(12)-25
12"	76.9	400 / 410	4(12)-23/27	432	4(12)-25	400	4(16)-25

## Stainless Steel Y-Strainer, ANSI 150 PSI

Model : SYS-F204, SYS-F216



### Specification Standards :

- Basic design and manufacture according to ASME B16.34
- Face to face according to ASME B16.10
- Flange end according to ASME B16.5

### Features :

- Is a device which provides a mean to remove debris from a flowing fluid in pipeline.
- A perforated screen or mesh is used to trap the debris in the strainer chamber.
- The strainer chamber is designed with a plug or cover that can be easily removed for maintenance purposes.
- The y - strainer can be installed either in horizontal or vertical down position and must be always before the valve or equipment.

### Application :

- For general and industrial services
- Applicable medium : water, oil

### Materials :

No.	Parts	Material
1	Body	CF8M / CF8
2	Screen	SS304
3	Cap	CF8M / CF8
4	Gasket	Graphite
5	Nut	A194 - B8
6	Bolt	A193 - 8

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	$\leq 150^{\circ}\text{C}$

### Dimensions

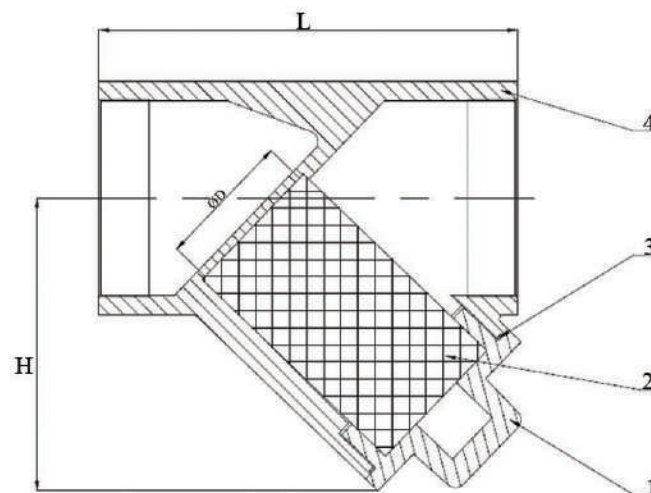
mm

Size	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
B	14.3	15.9	19	21	22.3	22.3	23.9	24	27
C	88.9	98.4	120.7	139.7	152.7	190.5	215.9	241.5	298.5
D	115	125	150	180	190	230	255	280	345
d	32	40	50	65	80	100	125	150	200
g	63.5	73.2	91.9	104.6	127	157.2	185.7	215.9	269.7
H	130	130	152	178	189	227	331	337	394
L	178	181	200	248	256	308	394	470	543



## Stainless Steel Y-Strainer, BSPT

Model : SYS-S04, SYS-S16



### Specification Standards :

- Threaded end according to BSPT standard

### Features :

- Is a device which provides a mean to remove debris from a flowing fluid in pipeline.
- A perforated screen or mesh is used to trap the debris in the strainer chamber.
- The strainer chamber is designed with a plug or cover that can be easily removed for maintenance purposes.
- The y - strainer can be installed either in horizontal or vertical down position and must be always before the valve or equipment.

### Application :

- For general and industrial services
- Applicable medium : water, oil

### Materials :

No.	Parts	Material
1	Body	CF8M / CF8
2	Cap gasket	PTFE
3	Filter screen	SS316 / SS304
4	Cap end	CF8M / CF8

Test Requirements	
Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	$\leq 150^{\circ}\text{C}$

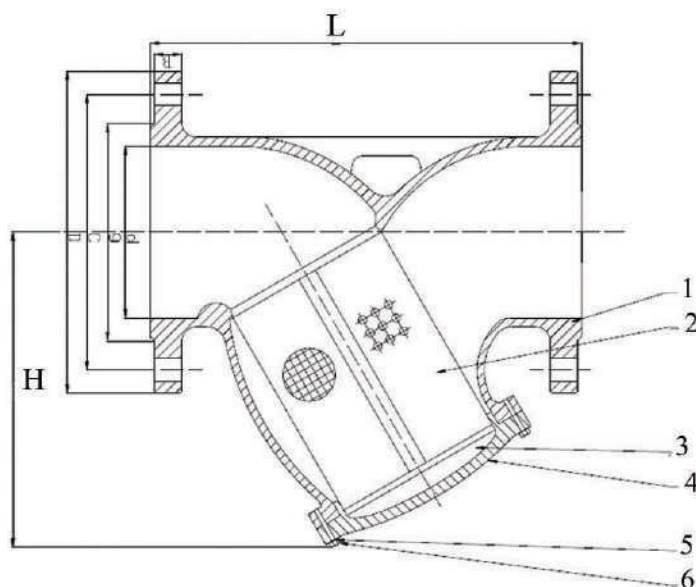
### Dimensions

mm

Size	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
DN	6	10	15	20	25	32	40	50	65	80
H	37.8	37.8	44.7	52.1	65.7	70	79.5	95.5	125	144.5
L	56	65	60	73	82	78	106	126	190	205
$\Phi D$	11.6	11.6	17.5	23	29	38	43.5	55	69	81.5

## Stainless Steel Y-Strainer, JIS 10K

Model : SYS-F104, SYS-F116



### Specification Standards :

- Face to face according to JIS B2002
- Flange end according to JIS B2212

### Features :

- Is a device which provides a mean to remove debris from a flowing fluid in pipeline.
- A perforated screen or mesh is used to trap the debris in the strainer chamber.
- The strainer chamber is designed with a plug or cover that can be easily removed for maintenance purposes.
- The y - strainer can be installed either in horizontal or vertical down position and must be always before the valve or equipment.

### Application :

- For general and industrial services
- Applicable medium : water, oil

### Materials :

No.	Parts	Material
1	Body	SS316 / SS304
2	Screen	SS304
3	Cap	SS316 / SS304
4	Gasket	Graphite
5	Nut	A194 - B8
6	Bolt	A193 - 8

### Test Requirements

Working Pressure	150 PSI ( 10 Bar )
Maximum Pressure	200 PSI ( 14 Bar )
Shell Test Pressure	300 PSI ( 21 Bar )
Applicable Temperature	$\leq 150^{\circ}\text{C}$

### Dimensions

mm

Size	2-1/2"	3"	4"	5"	6"	8"	10"
B	18	18	18	20	22	22	24
C	140	150	175	210	240	290	355
D	175	185	210	250	280	330	400
d	65	80	100	125	150	200	250
g	116	126	151	182	212	262	324
L	252	281	322	355	384	481	548
n*Øb	4-19	8-19	8-19	8-23	8-23	12-23	12-25