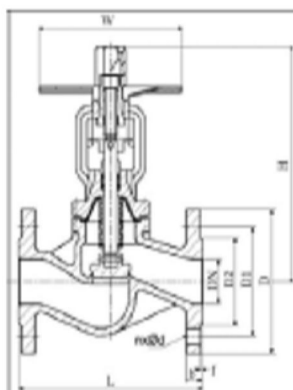


CAST STEEL GLOBE VALVE



Features

- Double wall bellows seal as standard
- Plug with marginal seat
- Stem with fine thread
- Flat lubricating nipple
- Secondary sealing: gland packing
- Position indicator as standard
- Non-rising handwheel
- External stem thread
- Stem with roll hardened thread

APPLICATION

- Steam system
- Hot water
- Thermal oil application
- Industrial
- Power station
- Processing technology

100 % Test and inspection conform to EN 12266

Flange Dimensions as per EN 1092-1

Face to Face as per EN 558-1

Dimension

SIZE	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
H (close)	196	196	205	205	222	224	240	265	350	380	410	550	715	790	950	1030
STROKE	8	8	10	10	15	16	18	22	28	34	40	60	75	85	100	115
Weight	PN16	4.2	4.7	5.6	7.5	9.5	11.9	17.4	23.3	36	56.2	78.8	154	238	339	610
	PN25	4.2	4.7	5.6	7.5	9.5	11.9	18.4	25.3	38.2	62	86	169	260	370	663
	PN40	4.2	4.7	5.6	7.5	9.5	11.9	18.4	26	38.7	64	87	178	283	398	690
KV	4.2	7.4	12	19	30	47	77	120	188	288	410	725	1145	1635	2225	2906

Material

Body	Bonnet	Bellow	Bolt	Nut	Packing	Gasket	Sealing face	Media	Suitable Temp	Design
GS-C25	GS-C25	Stainless Steel	Y	YK	Graphite	ss304 +Graphite	13Cr/13Cr	Steam/Water/Oil/Gas	<350 c	EN13709

Pressure –Temperature Classification

Material	PN	Temperature							
		< -10 c	120c	200c	250c	300c	350c	400c	450c
GG-25	PN16	16 bar	16 bar	13 bar	11 bar	10 bar			
GS-C25	PN16	16 bar	16 bar	13 bar	13 bar	13 bar	10 bar		
GGG40.3	PN16	16 bar	16 bar	13 bar	13 bar	13 bar	10 bar		
GGG40.3	PN25	25 bar	25 bar	20 bar	18 bar	16 bar	15 bar		
GS-C25	PN25	25 bar	25 bar	22 bar	20 bar	17 bar	16 bar	13 bar	
1.0619+N	PN40	40 bar	40 bar	35bar	32 bar	28 bar	24bar	21 bar	18 BAR
GS-C25	PN40	40 bar	40 bar	35 bar	32 bar	28 bar	24bar	21 bar	18 BAR

STAINLESS STEEL FLEXIBLE HOSE

KPI.



description

Corrugated flexible metal hose with close pitch annular corrugations from butt-welded tube. Can be reinforced by one or two metallic braids. Provides a good flexibility.

manufacture

Stainless steel grades:

AFNOR Z2CN 18.10, AISI 304L, BS 304 S12 DIN 1.4301
AFNOR Z10CNT 18.10, AISI 321, BS 231 S12, DIN 1.4541
and on order: AFNOR Z2 CND 17.12, AISI 316L,
BS 316 S12, DIN 1.4404

Reinforcement by 1 or 2 stainless steel braids.

principal applications

Conveyance of all fluids within a wide range of temperatures. Static assemblies or cyclic motions. Being inherently leakproof, PARNOR suits numerous uses in chemical, petrochemical, cryogenic, nuclear, thermal and many other fields.

We strongly advise not to use in torsion.

temperature

Excellent behaviour subject to the above considerations from - 269°C (liquid helium) up to + 600°C.

specifications

pressure

The table gives the following pressures:

P_r = burst pressure in "normal" conditions, i.e. tubing being straight and motionless under internal hydrostatic pressure at + 20°C temperature.

P_n = nominal pressure = $\frac{P_r}{4}$ = maximum working pressure in "normal" conditions.

$$\text{Practical rule: } P_s = P_r \times \frac{K_t}{K_s}$$

P_s = maximum working pressure in use.

K_t = correction factor for abnormal temperature applications.

K_s = safety factor depending on details of application.

All tubes are tested in "normal" conditions at a test pressure generally equal to twice the working pressure, and, when specified, undergo a vacuum tightness proof by means of a helium mass detector with a leakage rate inferior to 10^{-5} lusec.

bends



$$\text{Bending radius} = \text{coiling radius} + \frac{\text{outside diameter}}{2}$$

The table gives the values of:

R_s = theoretical minimum static bending radius (tubing being stationary)

R_d = theoretical minimum dynamic bending radius (constant deflections)

These theoretical values apply to low pressures and to temperatures between - 30°C and + 150°C.

Practical rule:

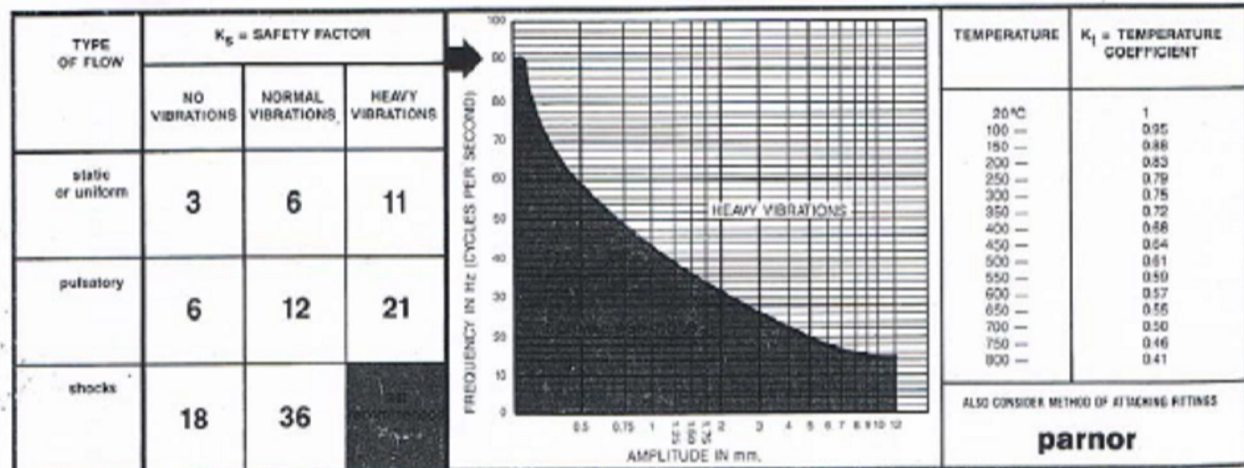
- for - 30°C < t < + 150°C with working pressure

P_u , take:

$$\text{bending radius} = R_s \text{ (or } R_d) \times \left(1 + \frac{P_u}{2 P_n}\right)$$

- for t < - 30°C or t > + 150°C whatever be P_u , take:

$$\text{bending radius} = R_s \text{ (or } R_d) \times 1.5$$



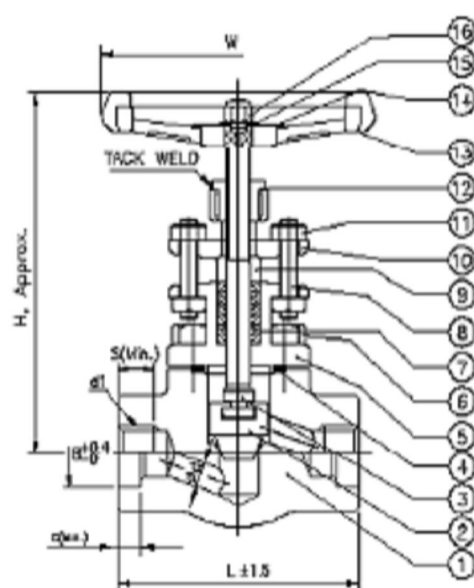
nominal bore		number of braids	outside mm	pressure bars		bend radius		weight per metre
inside mm	inches			nominal P _n	burst P _r	static R _s	dynamic R _d	Kg
6	¼"	0	9.7	12	-	20	125	0.05
		1	11.6	175	700			0.16
		2	13.5	200	800			0.27
9	⅜"	0	15	16	-	40	160	0.09
		1	16.5	100	400			0.26
		2	18	120	480			0.43
12	½"	0	20	12	-	45	210	0.12
		1	22	95	380			0.36
		2	24	105	420			0.59
15	⅝"	0	23	7	-	50	230	0.15
		1	25	75	300			0.42
		2	27	90	360			0.69
19	¾"	0	28	5	-	50	240	0.24
		1	30	60	240			0.53
		2	32	80	320			0.83
25	1"	0	36	4	-	60	250	0.33
		1	38	40	160			0.73
		2	40	65	260			1.13
32	1¼"	0	44	3	-	80	265	0.42
		1	46.5	40	160			1.07
		2	49	60	250			1.72
38	1½"	0	51	2	-	110	310	0.50
		1	55	40	160			1.37
		2	58	58	235			2.24
50	2"	0	66	1.5	-	140	355	0.78
		1	70	35	140			1.84
		2	73	45	180			2.90
63	2½"	0	81	1	-	180	415	1.31
		1	85	30	120			2.72
		2	88	40	160			4.13
75	3"	0	96	0.7	-	200	475	1.55
		1	100	24	96			3.18
		2	103	33	135			4.81
100	4"	0	127	0.5	-	225	585	2.26
		1	131	20	80			4.65
		2	134	26	105			7.04
125	5"	0	152	0.3	-	425	850	3.30
		1	156	12	48			5.90
		2	159	14	56			8.50
150	6"	0	174	0.2	-	525	1050	4.70
		1	178	10	40			7.30
		2	181	12	48			9.90
200	8"	0	233	0.2	-	600	1100	6.30
		1	238	10	40			11.00
250	10"	0	285	0.2	-	700	1150	10.90
		1	290	10	40			15.50
300	12"	0	337	0.2	-	900	1200	12.70
		1	342	10	40			19.50
350	14"	0	396	0.18	-	1200	2500	16.70
		1	401	8	30			25.80
400	16"	0	446	0.18	-	1350	2800	19.30
		1	451	8	30			28.80
450	18"	0	497	0.15	-	1500	3000	28.70
		1	502	5	20			32.47
500	20"	0	558	0.15	-	1550	3300	32.50
		1	563	4	15			37.20
600	24"	0	660	0.1	-	2000	3800	38.50
		1	665	3.5	14			46.00

FORGED STEEL GLOBE VALVE



Construction is as follows:

- Conventional ports (full port also available)
- Outside screw and yoke (OS & Y)
- Two piece self aligning packing gland
- Bolted bonnet with spiral-wound gasket
- Integral backseat
- Screwed ends (NPT) to ANSI /ASME B1.20.1



Materials specifications		
No	Part Name	Materials
1	BODY	A105
2	DISC & SEAT	A276-410+STL
3	STEM	A276-410
4	GASKET	A240-F304-Graphite
5	BONNET	A105
6	BONNET BOLT	A193-B7
7	GLAND PACKING	Flexible Graphite
8	GLAND BOLT	A139-B7
9	GLAND	A276-410
10	GLAND FLANGE	A105
11	GLAND NUT	A194-2H
12	YOKE BUSH	A276-410
13	HAND WHEEL	A197
14	NAME PLATE	Aluminium
16	WASHER	Stainless Steel
16	NUT	A194-2H

Dimensions (mm)								
NPS (inch)	H	L	W	Od	Ends			
					B	C	d 1	S
1/2	120	76	96	9.5	21.8	9.6	1/2	13.6
3/4	125	86	96	12.7	27.1	12.7	3/4	13.9
1	141	102	120	17.5	33.8	12.7	1	17.4
1 1/2	181	140	150	28.6	48.7	12.7	1 1/2	18.4
2	214	172	180	36.5	61.1	15.9	2	19.2

Y – STRAINER



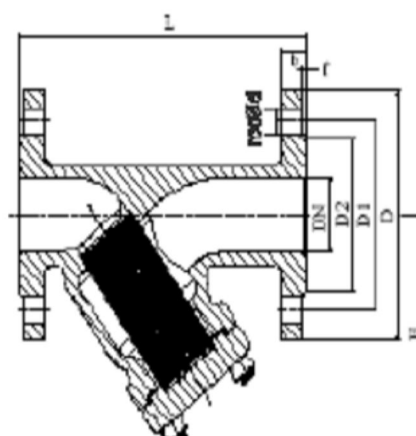
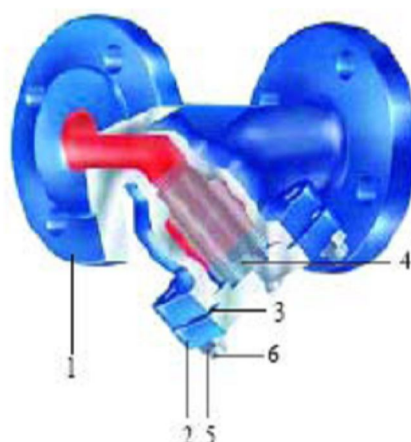
Selection of possible applications Description

- Precise guidance of screen in cover and body
- Screen and supporting basket made of stainless steel

Applications

- Industry
- Hot water manufacturing
- Gas supply
- Cooling and freezing system
- Ammonia
- General plant
- Thermal oil applications
- Processing technology

Parts	Materials
1 Body	Cast iron
2 Cover	Cast iron
3 Cover gasket	Graphite laminated
4 Strainer screen	Stainless steel
5 Cover stud	Carbon steel
6 Cover nuts	Carbon steel



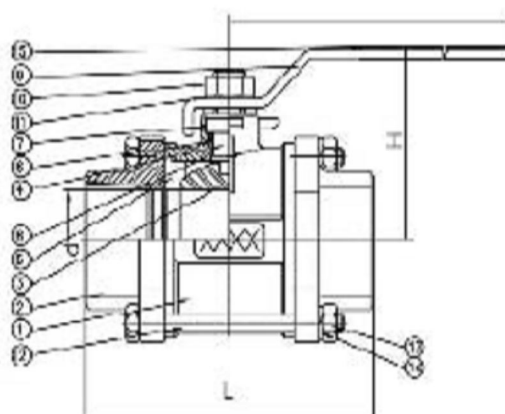
Dimensions

Size	L	D	D1	D2	b	f	H
DN15	130	95	65	45	16	2	85
DN20	150	105	75	58	18	2	95
DN25	160	115	85	68	18	2	110
DN32	180	140	100	78	18	2	125
DN40	200	150	110	88	18	3	145
DN50	230	165	125	102	20	3	155
DN65	290	185	145	122	20	3	175

3-PCS BALL VALVE

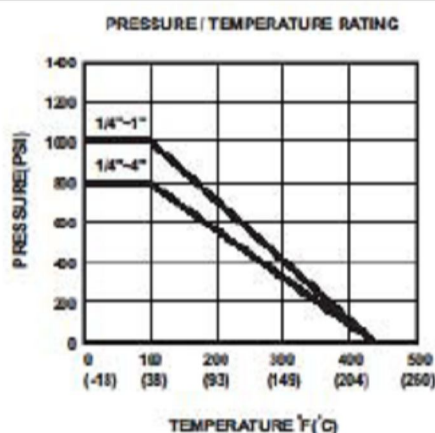


- End Type : BSPT, ISO-228 Class A Thread
- Material : Stainless Steel 316
- Pressure : 1000PSI (PN63)
- Temp : -60 °F to 450 °F (-23 °C to 230 °C)
- Seat : RPTFE (15% Reinforced Glassfiber PTFE)
- Stem : SS316 Blow-out Proof



Standard Material Specifications

No.	Part Name	Materials	QTY
1	Body	SS316	1
2	Cap	SS316	2
3	Ball	SS316	1
4	Stem	SS316	1
5	Ball Seats	TFM1600	2
6	Stem Packing	15%R-PTFE	1
7	Gland	SS304	1
8	Thrust Washer	15%R-PTFE	1
9	Handle	SS304	1
10	Handle Nut	SS304	1
11	Handle Washer	SS304	1
12	Bolts	SS304	4-6
13	Bolts Nuts	SS304	4-6
14	Bolts Washers	SS304	4-6
15	Handle Sleeve	Vinyl Grip	1



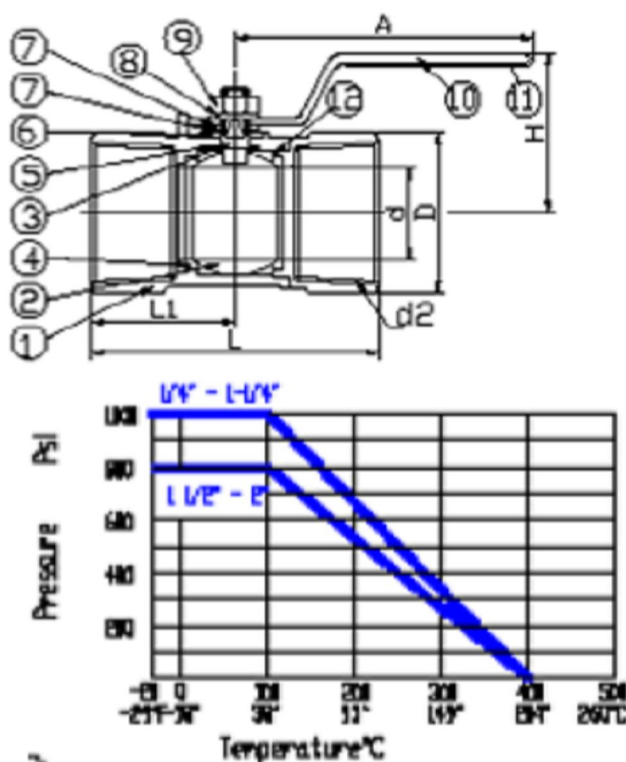
Dimensions (mm)

Size	d	L	H	D	Weight kgf - cm
1/4"	11.5	54.0	49.0	97.4	10
3/8"	12.5	54.0	49.0	97.4	16
1/2"	15.0	63.5	58.5	122.9	25
3/4"	20.0	72.5	61.0	122.9	44
1"	25.0	81.0	66.0	144.9	60
1 1/4"	32.0	94.5	73.5	144.9	105
1 1/2"	38.0	108.0	83.2	188.9	125
2"	50.0	121.5	91.0	188.9	220
2 1/2"	65.0	157.5	130.2	255.2	408
3"	80.0	190.0	138.5	260.8	550
4"	100.0	225.0	216.5	325.0	816

1- PC BALL VALVE



End Type : BSPT,BSP,NPT DIN2999
 Material : Stainless Steel 316
 Pressure Rate : 1000 PSI (PN 63)
 Temperature : (-20 c to 204 c)
 Seat : PTFE



MATERIAL LIST			
No	Part Name	Material	Q'TY
1	Body	SS 316	1
2	Ball	SS 316	1
3	Stem	SS 316	1
4	Seat	PTFE	2
5	Thrust Washer	PTFE	1
6	Gland Packing	PTFE	1
7	Washer	SS 304	2
8	Spring Washer	SS 304	1
9	Stem Nut	SS 304	1
10	Handle	SS 304	1
11	Handle Sleeve	Vinyl Grip	1
12	Gasket	PTFE	1

Size	d1	L	H	W	TORQUE(Nm)	Weight (Kgs)
1/4"	5	40	33	67	2	0.07
3/8"	7	45	36	67	2	0.10
1/2"	9	57	37	93	3	0.16
3/4"	12.5	60	42	93	3	0.25
1"	15	71	52	103	4	0.40
1 1/4"	20	78	56	103	5	0.65
1 1/2"	25	82	65	125	7	0.83
2"	32	100	70	125	9	1.30

STAINLESS Y-STRAINER & CHECK VALVE

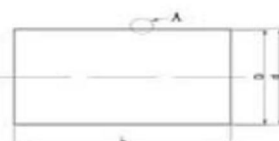
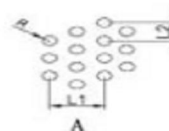
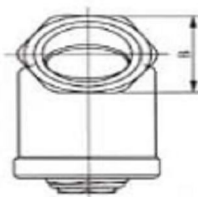
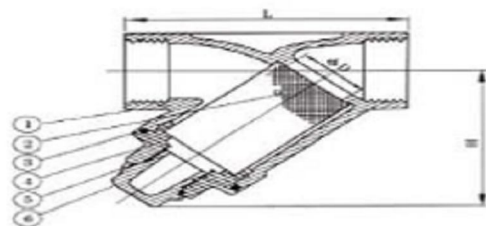


Featyres:

- Connecting threads screwed ends to DIN259/2999
- Investment casting ,Class800 ,
- Application: Water ,Oil & Gas
- Max. working pressure: 800 psi
- Max. working temperature: 200 °C

Material:

- SUS 316 / ASTM A351Gr-CF8M / DIN 1.4408



SIZE	D	B	H	L
1/2"	15	26	51	65
3/4"	20	33	60	80
1"	25	41	72	90
1 1/4"	32	49	77	105
1 1/2"	40	56	87	120
2"	50	69	103	140

NR.	PART	QTY	MATERIAL
1	Body	1	CF8M
2	Screen	1	SS316
3	Gasket	1	PTFE
4	Cap	1	CF8M
5	Drain Plug	1	SS316

	D	d	L	L1	L2	R
DN15	≤ 18	≤ 17	30	5	3	0.75
DN20	≤ 23.5	≤ 22.5	41	5	3	0.75
DN25	≤ 33	≤ 32	51	5	3	0.75
DN32	≤ 35	≤ 34	56	5	3	0.75
DN40	≤ 43.5	≤ 42.5	65	5	3	0.75
DN50	≤ 53	≤ 52	77	5	3	0.75

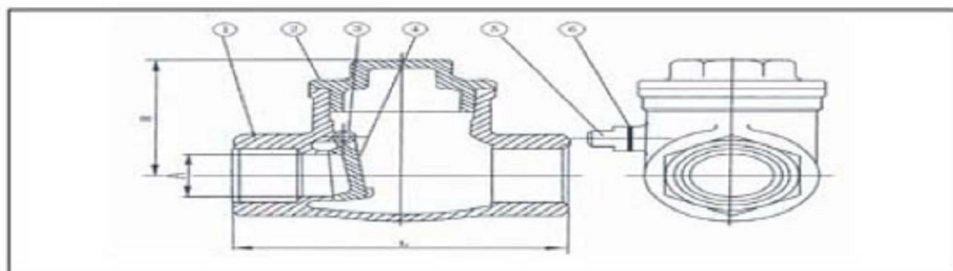


Featyres:

- Connecting threads screwed ends to BS21 basically .
- Investment casting ,Class200 ,
- Application: Water ,Oil & Gas
- Max. working pressure: 200 psi
- Max. working temperature: 200 °C

Material:

- SUS 316 / ASTM A351Gr-CF8M / DIN 1.4408



SIZE	A	H	L	WEIGHT KG
1/2"	15	42	65	0.27
3/4"	20	51	80	0.45
1"	25	60	90	0.61
1 1/4"	32	67	105	0.80
1 1/2"	40	75	120	1.10
2"	50	81	140	1.70
2 1/2"	65	93	180	3.20
3"	80	104	200	5.00

NR.	PART	QTY	MATERIAL
1	Body	1	CF8M
2	Cap	1	CF8M
3	Pin	1	SS316
4	Disc	1	CF8M
5	Plug	1	SS316
6	Gasket	1	PTFE

STAINLESS GATE & GLOBE VALVE

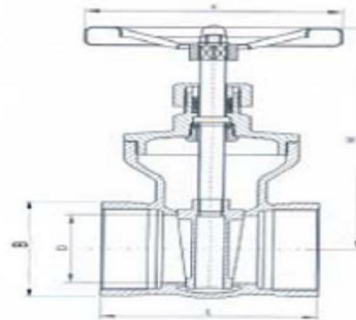


Featyres:

- Connecting threads screwed ends to DIN259/2999
- Investment casting ,Class200 ,
- Application: Water ,Oil & Gas
- Max. working pressure: 200 psi
- Max. working temperature: 200 C

Material:

- SUS 316 / ASTM A351Gr-CF8M / DIN 1.4408



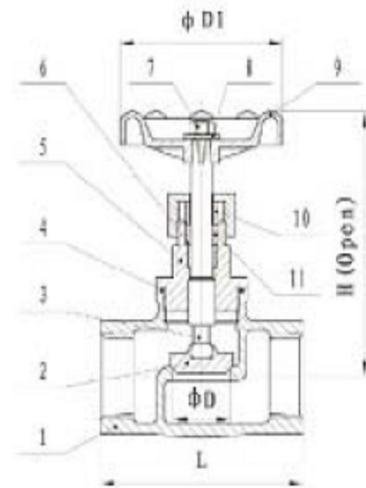
SIZE	D	B	H	L
1/2"	15	31	90	52.5
3/4"	20	38	95	57.5
1"	25	46	105	63
1 1/4"	32	56	130	71
1 1/2"	40	63	140	73.5
2"	50	76	165	87

NR.	PART	QTY	MATERIAL
1	Body	1	CF8M
2	Disc	1	CF8M
3	Gasket	1	PTFE
4	Stem	1	SS316
5	Packing	1	PTFE



DIMENSION						
SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
D	15	20	25	32	40	50
H	100	106	118	134	152	172
D1	70	70	80	80	100	100
L	66	80	90	105	120	141

MATERIAL	DESCRIPTION	MATERIAL
1	BODY	CF8M
2	PETAL	CF8M
3	STEM	SUS304
4	GASKET	PTFE
5	CAP	CF8M
6	WASHER	SUS304
7	NUT	SUS304
8	RING	SUS304
9	HANDWHEEL	ALUMINUM ALLOY
10	GLAND RING	SUS304
11	STEM PACKING	PTFE

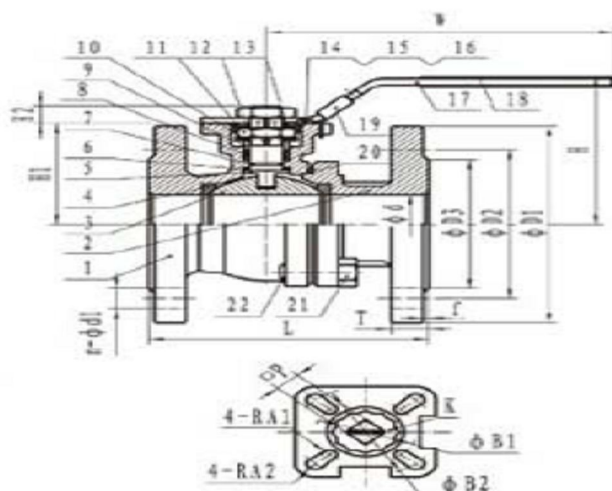


STAINLESS BALL VALVE



FEATURES:

- JIS 10K
- Full Port
- Investment Casting
- Blow-out Proof Stem
- ISO5211 Mounting Pad
- PED97/23/EC(CE 0035) Approved
- Casting Approved AD2000-W0
- Design: JIS B2002
- End Flange: JIS B2238
- Inspection Testing: JIS B2003, API598



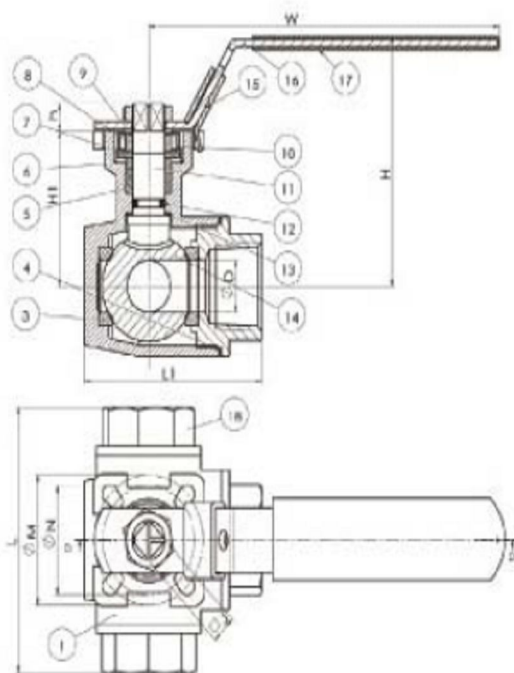
MATERIAL LIST

ITEM	DESIGNATION	MATERIAL
1	BODY	SSC13A/SSC14A
2	CAP	SSC13A/SSC14A
3	BALL	SSC13A/SSC14A
4	BALL SEAT	RPTFE
5	STEM	SUS304
6	STEM PACKING	PTFE
7	O-RING	NBR
8	V-RING PACKING	PTFE
9	GLAND	SUS304
10	BELIEVILLE WASHER	SUS301
11	NUT	SUS304
12	THRUST WASHER	SUS304
13	WASHER	SUS304
14	STOP BOLT	SUS304
15	NUT	SUS304
16	WASHER	SUS304
17	HANDLE	SUS304
18	PLASTIC COVER	PLASTIC
19	LOCKING	SUS304
20	BODY GASKET	PTFE
21	NUT	SUS304
22	BOLT	SUS304

DIMENSION TABLE

SIZE	15A	20A	25A	32A	40A	50A	65A	80A	100A
Φd	15	20	25	32	38	50	65	76	100
L	108	117	127	140	165	178	190	203	229
T	12	14	14	16	16	16	18	18	18
f	1	1	1	2	2	2	2	2	2
D1	95	100	125	135	140	155	175	185	210
D2	70	75	90	100	105	120	140	150	175
D3	51	56	67	76	81	96	116	126	151
n	4	4	4	4	4	4	4	8	8
Φd1	15	15	19	19	19	19	19	19	19
H1	48	53	64	71	76	84.5	101.5	111.5	141
H2	8	8	11	11	14	14	17	17	22
H	80	85	100	108	114	124	148	158	189
W	140	140	160	160	185	185	230	230	320
K	M12X1.5	M12X1.5	M14X1.5	M14X1.5	M18X1.5	M18X1.5	M22X1.5	M22X1.5	M28X2
P	9	9	11	11	14	14	17	17	22
A1	3	3	3	3	3.5	3.5	4.5	4.5	
A2	3	3	3.5	3.5	4.5	4.5	5.5	5.5	M10
B1	36	36	42	42	50	50	70	70	
B2	42	42	50	50	70	70	102	102	102

STAINLESS 3-WAY BALL VALVE



FEATURES:

- 1000PSI/PN63
- Reduce Port
- Investment Casting
- Blow-out Proof Stem
- ISO5211 Mounting Pad
- PED97/23/EC(CE 0035) Approved
- Casting Approved AD2000-W0
- L or T Port Option
- 4 Seats For Rigid Ball Supporting
- Thread: ASME B1.20.1 BS21.DIN2999/259, ISO228-1, JIS B0203, ISO7/1
- Inspection Testing: API598, EN12266



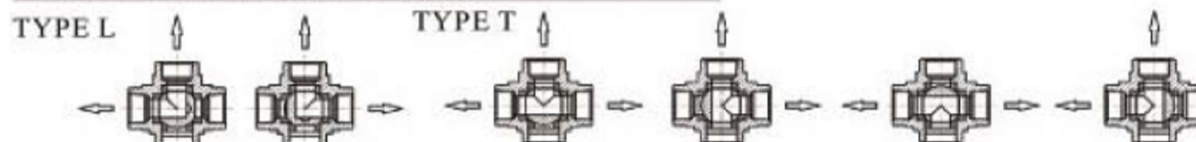
MATERIAL LIST

ITEM	DESIGNATION	MATERIAL
1	BODY	CF8/CF8M
2	CAP(A)	CF8/CF8M
3	BALL SEAT	RPTFE
4	BODY PACKING	PTFE
5	STEM PACKING	PTFE
6	GLAND NUT	SUS304
7	SPRING WASHER	SUS301
8	NUT	SUS304
9	WASHER	SUS304
10	THRUST WASHER	SUS304
11	STEM	SUS304
12	O-RING	NBR
13	STEM SEAL	PTFE
14	BALL	CF8/CF8M
15	LOCKING	SUS304
16	HANDLE	SUS304
17	PLASTIC COVER	PLASTIC
18	CAP(B)	CF8/CF8M

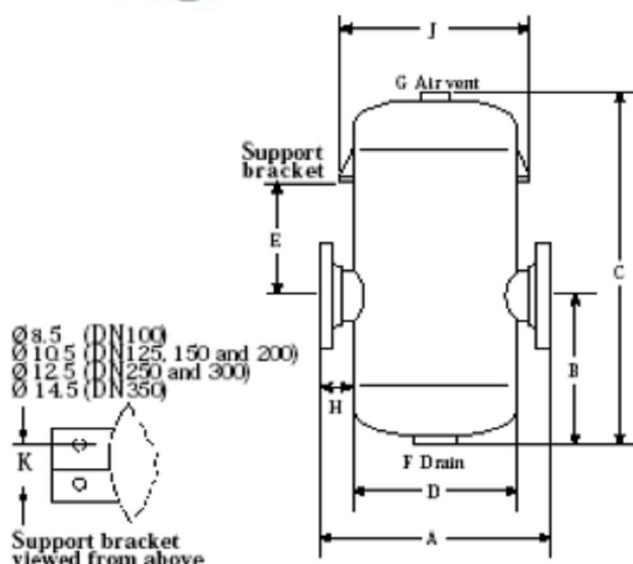
DIMENSION TABLE

ITEM	SIZE	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
D		9	11	12.5	16	20	25	32	38
W		139	139	139	139	160	160	185	185
H		73	73	73	80	95	98	110	119
H1		42	42	42	49	59.5	63	73.5	82.8
h		9	9	9	9	11	11	14	14
M		36	36	36	36	42	42	50	50
N		42	42	42	42	50	50	70	70
J		9	9	9	9	11	11	14	14
L		79	79	79	83	104	111	126	147
L1		64	64	64	68	82	90	106	123

FLOW DIRECTION INDICATION



STEAM SEPERATOR



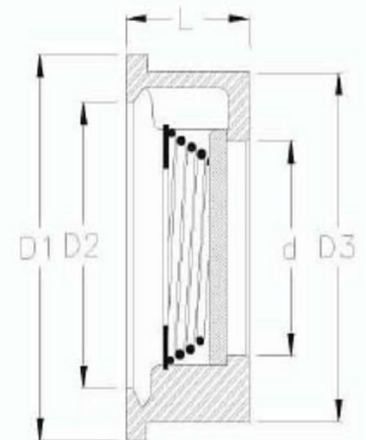
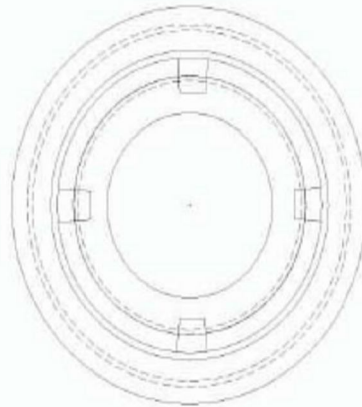
Size	Flange standard	Design pressure bar g	Design temperature °C	Designed for a maximum cold hydraulic test pressure bar g
DN15	PN16	14	198	21
	PN40	30	235	48
DN20 and DN25	PN16	14	198	21
	PN40	30	235	48
DN32, DN40 and DN50	PN16	14	198	21
	PN40	30	235	48
DN65	PN16	14	198	21
	PN40	30	235	48
DN80	PN16	14	198	21
	PN40	30	235	48
DN100	PN16	14	198	21
	PN40	30	235	48
DN125 and DN150	PN16	14	198	21
	PN40	30	235	48

Size	A	B	C	D	E	F	C	H	J	K	Weight (kg)
DN15	273	130	265	73	-	1/2"	1/2"	100	-	-	4.5
DN20	273	130	317	73	-	1/2"	1/2"	100	-	-	5.0
DN25	314	152	355	114	-	1/2"	1/2"	100	-	-	7.0
DN32	341	178	407	141	-	1/2"	1/2"	100	-	-	11.0
DN40	368	194	484	168	-	1"	1/2"	100	-	-	15.0
DN50	368	209	526	168	-	1"	1/2"	100	-	-	25.0
DN65	420	245	638	219	181	1"	3/4"	100	263	30	41.0
DN80	523	300	735	273	204	2"	3/4"	125	368	30	52.0
DN100	574	316	795	324	180	2"	3/4"	125	384	40	73.0
DN125	656	309	843	356	247	2"	3/4"	150	416	44	104.0
DN150	706	341	935	406	273	2"	3/4"	150	466	60	135.0

Installation

- Install in a horizontal pipeline with the drain directly below. Size DN80 to DN150 are fitted with support brackets which can be used to minimize piping loads. Each bracket has two drilled holes. To ensure that any separated liquid is drained quickly, a suitable liquid drainer must be connected to the drain connection. For those steam systems where air can be present, air can collect in the upper portion of the separator. In this situation a suitable air vent should be connected to the air vent connection.

STAINLESS STEEL WAFER CHECK VALVE



Application:

- For general industry services
- Medium: water ,oil ,gas, steam
- Max working pressure : 40 bar
- Max working temp : -10c +250c

Materials

Parts	Materials
Body	sus 316
Disc	sus 316
Spring Retainer	sus 316
Spring	sus 316

Dimensions

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
L	16	20	22	28	32	40	46	49	58	85	105	139
d	15	20	25	32	40	50	65	80	100	125	150	200
D1	39	46	54	68	78	90	111	128	148	191	268	286
D2	28	35	43	52	63	75	95	108	126	106	175	192
D3	33	41	48	60	73	85	102	122	140	191	268	286
Wt(kg)	0.19	0.2	0.23	0.3	0.6	0.9	1.3	1.9	2.9	8.1	16.6	22.6

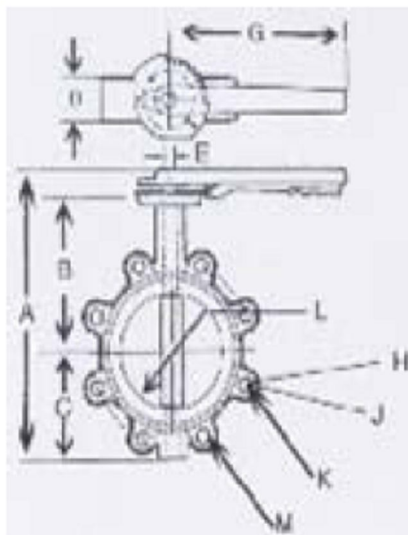
BUTTERFLY VALVE



Model : 65M



Model : 66 M



Features

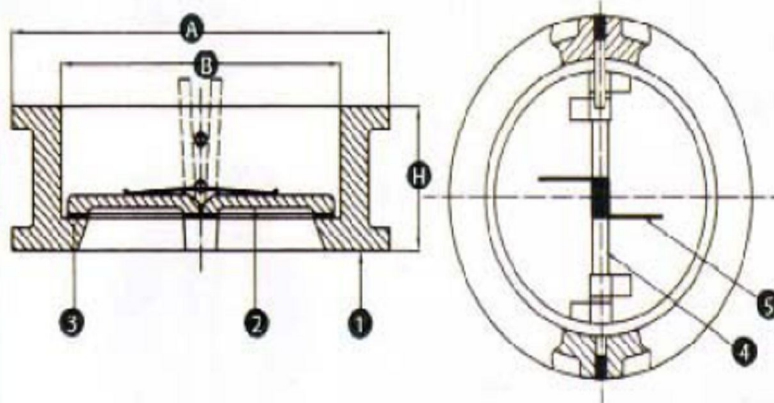
- Small in size and light in weight
- Can be mouthed wherever needed
- Minimized operating torque ,energy saving
- Long service life .Standing the test of ten of thousand opening and closing

Size	A	B	C	E	J	K	L	65M(kg)	66M(kg)
50	270	162	76	13	17	121	51	2.2	3.1
65	295	175	89	13	17	140	64	3.1	3.6
80	308	181	95	13	17	152	76	3.6	4
100	346	200	114	16	17	191	102	4.9	7.7
125	371	213	127	19	21	216	127	6.8	9.5
150	397	225	140	19	21	241	152	8.6	11.3
200	492	260	197	22	21	289	203	15.3	19
250	540	292	203	29	24	362	254	26.7	33
300	622	332	241	32	24	432	305	42.6	50.7
350	630	368	267	32	24	476	333	48	55
400	710	400	310	33	24	539	390	65	71
450	750	422	328	34	24	578	440	79	83
500	911	479	368	41	24	635	577	91	94
600	1043	562	410	51	30	749	686	95	110
700	1216	624	520	55	30	920	745	150	185
750	1375	670	550	62	34	920	795	236	204

Part	Material
Body	Cast Iron
	Ductile Iron
	Stainless Steel CF8M
Disc	Stainless Steel ss304
Stem	Stainless Steel SS416
Seat	NBR -10C to 80 C
	EPDM -15C to 110 C
	PTFE - 20 to 140 C

Nominal Diameter		50(2")-800(32")	
Nominal Pressure		16 BAR	
Testing Pressure	Sheel	24 BAR	
	Sealing	17.6 BAR	
Working Temperature		-15c to 150 c	
Operation Methods		Handle,Gear,C ontrol	

DUO PLATE CHECK VALVE



MATERIAL

S/N	PART NAME	MATERIAL
1	Body	Cast Iron
2	Disc	AISI 316
3	Seat	EPDM
4	Stem	Stainless Steel
5	Spring	Stainless Steel

MAXIMUM NON-SHOCK SERVICE PRESSURE

	50 TO 300MM	350 TO 600MM
SEAT TEST PRESSURE (BAR)	13.7	10
SHELL TEST PRESSURE (BAR)	20	16

Flanged Standard : JIS 10K, ANSI 150 PSI, DIN 10/16

Applicable Fluids : Water, Warm Water,
Sea Water, Air & Weak Acid

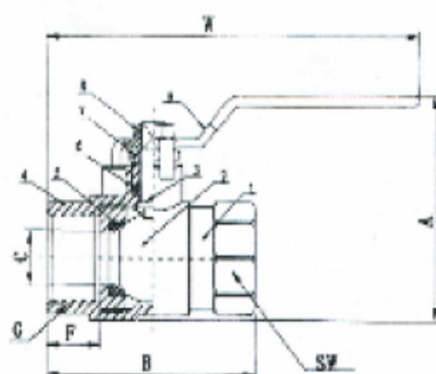
SIZE		A	B	H	MAXIMUM WORKING PRESSURE	MAXIMUM WORKING TEMP.
MM	INS	MM	MM	MM	PSI	°C
50	2	98	70	54	200	110
65	2 1/2	118	83	54	200	110
80	3	130	90	57	200	110
100	4	156	115	64	200	110
125	5	187	142	70	200	110
150	6	215		76	200	110
200	8	267	220	95	200	110
250	10	330	275	108	200	110
300	12	375	325	144	200	110
350	14	440	356	184	150	110

BRASS BALL VALVE



600-POUND BRASS BALL VALVES

Full bore, 2-Piece Body, blowout-proof stem, screwed ends.



Model BV-600-B

BV-600-B

WORKING PRESSURE -NON-SHOCK

Steam		Cold Water, Oil, Gas
Psig	150	600
Bar	10.3	41.4

BV-600-B

TEST PRESSURE

Shell (Water)		Seat (Air)
900	80	600
62.1	5.5	41.4

NO.

PART NAME

MATERIAL

1	BODY	BRASS
2	BALL	BRASS
3	STEM	BRASS
4	BONNET	BRASS
5	SEAT	PTFE
6	PACKING	PTFE
7	CAP	BRASS
8	NUT	STELL
9	HANDLE	STELL

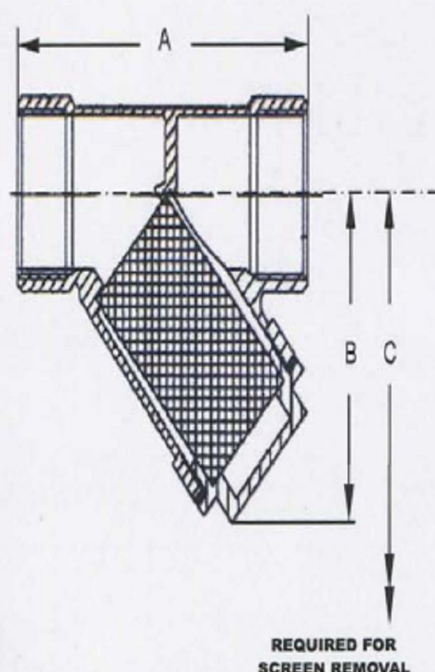
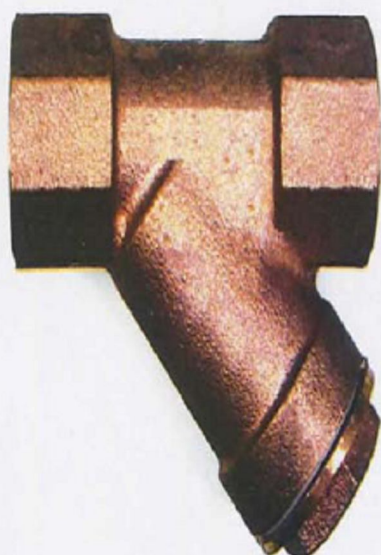
Note: End threads conform to the American or British standard pipe threads.

Dimensions		(mm)							
Mark	Size	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
A		35	50	56	84	74	85	95	108
B		41	45	50	54	62	75	81	91
C		7	11	12	17	21	25	29	38
F		10	10	13	14	14	15	16	17
W		70	100	110	119	139	170	180	190
SW		19	22	25	31	39	46	54	66
Weight									
g		60	130	160	230	335	570	815	1225

BRONZE STRAINER



351M-N Class 150



Model 351M-N

SERVICE RECOMMENDATIONS

This model can be used extensively to strain foreign matter from pipelines and provide inexpensive protection for costly pumps, meters, valves and similar equipment.

SCREENS

Model 351M-N is furnished with 20 mesh [1/32" (.80mm) openings] for water service.

CONSTRUCTION

The model has machined screen seat in the body and cap to assure perfect screen alignment and easy reassembly when servicing is required. Commercial strainers in ASTM B62 Bronze. All sizes feature a straight threaded, gasketed cap.

SELF CLEANING

Self cleaning is accomplished by opening the valve or cap connected to the blowoff outlet.

INDIVIDUALLY HYDROSTATICALLY TESTED.

MATERIALS:

Body and Cap	Bronze ASTM B62
Screen	304 Stainless Steel ASTM A240
Gasket	PTFE

DIMENSIONS AND WEIGHTS

size	in	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
	mm	15	20	25	32	40	50
A	in	2-15/16	3-3/8	3-9/16	4-5/8	5-1/16	5-15/16
B	in	1-7/8	2-1/4	2-1/2	3-1/8	3-1/2	4-1/16
C	in	2	2-3/4	3-9/16	4-3/4	6-5/16	7-7/8
Weight	lbs.	.51	.75	1.12	2.18	2.68	4.36

Approximate Dimensions and Weights. Apply For Certified Drawings.

BRONZE CHECK VALVE



Specification

For Horizontal or Vertical Lines (Up Flow Only)

Renewable Seat and Disc

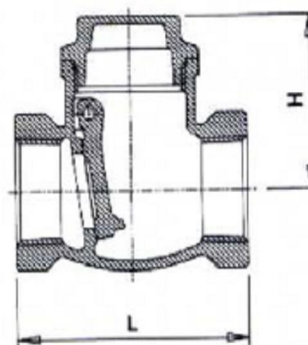
Working Pressure : 235 PSI Non-Shock Cold Water, Oil or Gas

Working Temp. : -10 °C to 120 °C

Model BSW-125-S

Parts And Material List

No.	Parts	Material	ASTM Specification
1	Body	Bronze	ASTM B-62
2	Cover	Bronze	ASTM B-62
3	Disc	Bronze	ASTM B-62
4	Body Seat Ring	Bronze	ASTM B-62

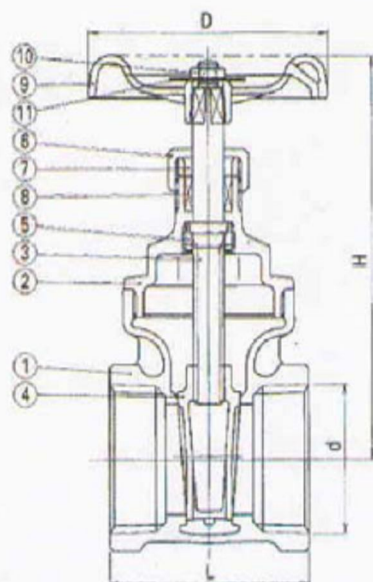


Dimensions

(mm)

Size	Face-to-Face L	Height H	WT (Kg)
1/2"	47	33	0.26
3/4"	56	37	0.45
1"	61	42	0.63
1-1/4"	70	47	0.98
1-1/2"	79	51	1.50
2"	86	61	2.30
2-1/2"	113	75	4.00
3"	133	86	5.50
4"	150	107	10.80

BRONZE GATE VALVE



SPECIFICATION

- ◆ Non-rising stem
- ◆ Screwed in-bonnet
- ◆ Solid Wedge Disc
- ◆ BS5154 PN16
- ◆ Screwed ends.

Technical Features

Nominal Pressure	: 300 PSI WOG
Max. Working Temperature	: 150 °C
Thread	: BSP/NPT

Materials

No.	Name of Parts		ASTM Specifications	
1	Body		Bronze	ASTM-B62
2	Bonnet		Forged brass	B124-C37700
3	Stem		Forged brass	B124-C37700
4	Disc		Cast Bronze	B584-C84400
5	Lock nut		Forged brass	B124-C37700
6	Packing nut		Forged brass	B283-C37700
7	Gland		Forged brass	B124-C37700
8	Gland packing		PTFE	
9	Hand wheel	1/4-3/4	Zinc alloy die casting	B86-Z335520
		1-4	Aluminum alloy die casting	B85-A03840
10	Wheel nut		Steel(zinc plated)	A563 Gr. A
11	Name plate		Aluminum plate	B209-1100



Model: 0150-SB

Dimension

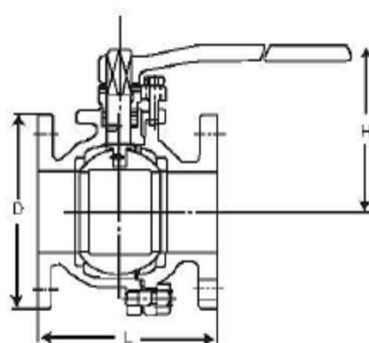
Size	L (mm)	H (mm)	D (mm)
1/2"	45.5	72	48
3/4"	52	78	65
1"	56.5	88	65
1-1/4"	58	108	70
1-1/2"	60	117	80
2"	68	147	78
2-1/2"	73	165	98

CAST IRON BALL VALVE JIS 10K



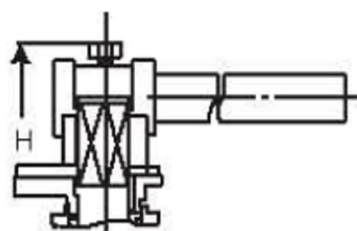
APPLICATION

1	Face to face is according to JIS B2002
2	Flange drilled is according to JIS B2212



MATERIALS LIST

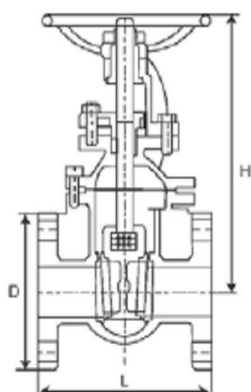
BODY	CAST IRON (FC20)
STEM	STAINLESS STEEL (SS410)
BALL	STAINLESS STEEL (SS304)
GLAND PACKING	PTFE
BALL SEAT	PTFE
HANDLE	FCD400



DIMENSIONS (mm)

DN	15	20	25	32	40	50	65	80	100	125	150	125
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
L	108	117	127	140	165	178	190	203	229	356	394	457
H	59	63	75	86	97	131	142	170	201	252	286	340
D	95	100	125	135	140	155	175	185	210	250	280	330

GATE VALVE JIS 10K



APPLICATION

1	Face to face is according to JIS B2002
2	Flange drilled is according to JIS B2212

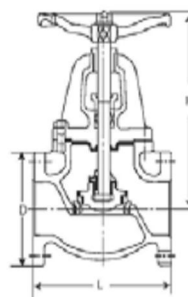
MATERIALS LIST

BODY	CAST IRON (FC20)
BONNET	CAST IRON (FC20)
STEM	STAINLESS STEEL (S410)
DISC	CAST IRON (FC20)
SEAT RING	CAST BRONZE
GLAND	DUCTILE IRON (FCD45)
PACKING	NON ASBESTOS
HANDWHEEL	CAST IRON (FC20)

DIMENSIONS (mm)

DN	40	50	65	80	100	125	150	200	250	300
	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
L	165	180	190	200	230	250	270	290	330	350
H	245	267	280	300	405	460	560	705	880	1100
D	140	155	175	185	210	250	280	330	400	445

GLOBE VALVE JIS 10K



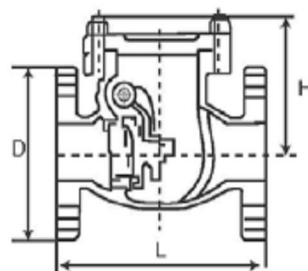
MATERIALS LIST

BODY	CAST IRON (FC20)
BONNET	CAST IRON (FC20)
STEM	STAINLESS STEEL (S410)
DISC	CAST IRON (FC20)
SEAT RING	CAST BRONZE
GLAND	DUCTILE IRON (FCD45)
PACKING	NON ASBESTOS
HANDWHEEL	CAST IRON (FC20)

DIMENSIONS (mm)

DN	40	50	65	80	100	125	150	200	250	300
	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
L	190	200	220	240	290	360	410	500	620	700
H	260	277	307	353	440	454	533	642	665	755
D	140	155	175	185	210	250	280	330	400	445

SWING CHECK VALVE JIS 10K



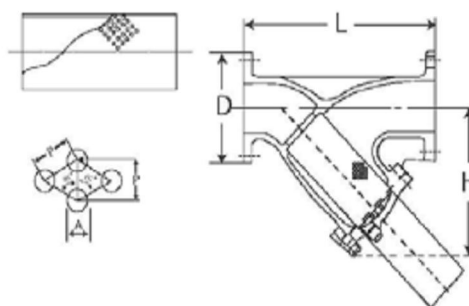
MATERIALS LIST

BODY	CAST IRON (FC20)
COVERT	CAST IRON (FC20)
DISC	CAST IRON (FC20)
SEAT RING	CAST BRONZE
INGE PIN	STAINLESS STEEL (SS304)
PLUG	CARBON STEEL (SS41)

DIMENSIONS (mm)

DN	40	50	65	80	100	125	150	200	250	300
	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
L	190	203	220	240	292	330	366	495	622	698
H	100	105	115	140	155	170	203	246	283	330
D	140	155	175	185	210	250	280	330	400	445

Y-STRAINER JIS10K



MATERIALS LIST

BODY	CAST IRON (FC20)
BONNET	CAST IRON (FC20)
SCREEN	STAINLESS STEEL (SS304)
DRAN PLUG	CARBON STEEL (SS41)

SCREEN DIMENSIONS

DN	A	P	Thickness
5" or smaller	Ø 1.5	2.5	0.5
6" & 8"	Ø 3.0	5.0	1.0
10" & larger	Ø 5.0	7.0	1.0

DIMENSIONS (mm)

DN	50	65	80	100	125	150	200	250	300
	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
L	250	285	315	370	420	490	570	680	800
H	168	185	200	255	295	345	425	515	600
D	155	175	185	210	250	280	330	400	445

FOOT VALVE



Cast Iron Body, Galvanised steel strainer / Stainless steel SUS 304 Strainer

Connections 10K / ANSI / PN 10 / PN16

TECHNICAL FEATURES

- *Operates in any position from horizontal to vertical ascending
- *Minimum headloss
- *Silent, reliable sealing, compact
- *Exceptional robustness
- *Does not generate hammering

DESCRIPTION

Closing system : Long back axial guiding for reduced displacement

- * Sealing guaranteed by a flat seal
- * Return spring

CHARACTERISTICS

Working temperature	Body Cast Iron
Min : -10° C	Working Pressure : 10 Bar
Max : +130° C	Testing Pressure : 16 Bar
	Body Ductile Iron
	Working Pressure : 16 Bar
	Testing Pressure : 25 Bar

*Size 2"-10" 25 Bar 12" UP 20 Bar



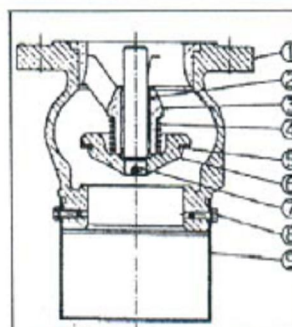
STRAINER PERFORATION : DIA 7.8 MM
HOLES / SQ. INCH : 6 HOLES

MATERIAL DESIGN

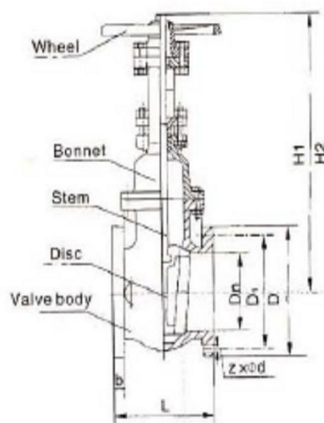
REF	DESCRIPTION	QTY	MATERIALS	DIN	ANSI
1	BODY	.1	CAST IRON	GG 25	ASTM A 48 35B
2	RING	1	BRONZE	G-Cu Zn12	4846A
3	GUIDE	1	CAST IRON	GG 25	ASTM A 48 35B
4	SPRING	1	STAINLESS STEEL	1.431	ANSI 302
5	SEAL	1	NBR		
6	HEAD VALVE	1	CAST IRON	GG 25	ASTM A 48 35B
7	STEM VALVE	1	CAST IRON	G-Cu Sn5 Zn Pb	ASTM B 505
8	SCREW	1	CADMID STEEL		
9	STRAINER	1	GALVANISED STEEL, STAINLESS STEEL SUS 304		

OTHER MATERIAL OPTIONS

BODY	DUCTILE IRON GGG 40 STAINLESS STEEL SUS 304
SEAL	FKM (VITON) STAINLESS STEEL SUS 304 NBR, EPDM
HEAD VALVE	DUCTILE IRON GGG 40 STAINLESS STEEL SUS 304
GUIDE	DUCTILE IRON GGG 40 STAINLESS STEEL SUS 304



CAST IRON GATE VALVE PN16



Main Parts and Materials

NO.	Name	Material
1	Body	Gray Iron A126-B
2	Disc	Ductile Iron/A536
3	Trim	SS304
4	Sealing	Stainless Steel/Brass
5	Handwheel	Ductile Iron/A356

Application :

1	Design According to ANSI B16.1 Class 125/ Class 150/ 10K/ PN16
2	Flange End Face to ANSI B16.1 Class 125/ Class 150
3	For water, neutral liquids and oil, gas

Outling and connect measurement

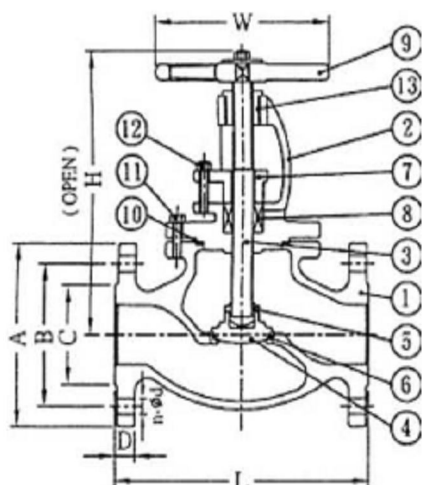
Type	Nominal Φ (NI)	Measurement (mm)							
		DN	L	D	D1	B	Z x Φd	H1	H2
Rising Gate Valve	2"	50	177.8	152	120.7	15.9	4 x Φ19	318	375
	2 1/2"	65	190.5	178	139.5	17.5	4 x Φ19	338	408
	3"	80	203.2	190	152.5	19.1	4 x Φ19	353	442
	4"	100	228.6	229	190.5	23.9	8 x Φ19	433	545
	5"	125	254	254	216	23.9	8 x Φ22	516	656
	6"	150	266.7	279	241.5	25.4	8 x Φ22	603	770
	8"	200	292.1	343	298.5	28.6	8 x Φ22	737	959
	10"	250	330.2	406	362	30.2	12 x Φ25	979	1255
	12"	300	355.6	483	432	31.8	12 x Φ25	1115	1443
	14"	350	381	533	476	35	12 x Φ29	1346	1727

STAINLESS STEEL GLOBE VALVE



FLANGES : ANSI 150, JIS 10K

SIZE : 1/2" THRU 12" (DN 15 THRU DN 300)



Materials List :

No.	PART NAME	ANSI 150 LB & JIS 10K		
		SS316	SS304	WCB
1	BODY	SS316	SS304	ASTM A216 WCB
2	BONNET	SS316	SS304	ASTM A216 WCB
3	STEM	SS316	SS304	AISI-410
4	DISC	SS316	SS304	ASTM A351 CF8/WCB
5	DISC NUT	SS316	SS304	ASTM A351 CF8/WCB
6	SEAT RING	-	-	WELDED SS304
7	GLAND	SS316	SS304	AISI-A216WCB
8	GLAND PACKING	GARFOIL/PTFE		
9	HANDWHEEL	DUCTILE IRON		
10	GASKET	GARFOIL/PTFE		
11	BONNET BOLT/NUT	ASTM A194-B8		ASTM A 193 GR. B7/A194 2H
12	GLAND BOLT/NUT	ASTM A194-B8		ASTM A307 GR. B
13	YOKE SLEEVE	BRONZE		

Dimensions :

Unit : mm

SIZE	inch	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10	12
	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300
ANSI 150	L END TO END	108	117	127	-	165	203	216	241	292	356	406	495	622	698
	H HIGHT	190	200	230	-	240	250	270	290	350	410	520	570	670	736
	W HANDLE	90	100	100	-	140	160	180	200	225	250	300	350	400	500
	A	89	98	108	-	127	152	178	190	229	254	279	343	406	483
	B	60.5	70	79.5	-	98.5	120.5	139.5	152.5	190.5	216	241.5	298.5	362	432
	C	35	43	51	-	73	92	105	127	157	186	216	270	324	381
	D	11.2	11.3	11.2	-	14.3	15.9	17.5	19.1	23.9	23.9	25.4	28.6	30.2	31.8
	n-φd	4-16	4-16	4-16	-	4-16	4-19	4-19	4-19	8-19	8-22	8-22	8-22	12-25	12-25
JIS 10 K	L END TO END	108	117	127	140	165	203	216	241	292	356	406	495	622	698
	H HIGHT	190	200	205	250	250	250	270	290	350	410	520	570	670	736
	W HANDLE	90	90	100	120	140	160	180	200	225	250	300	350	450	500
	A	95	100	125	135	140	155	175	185	210	250	280	330	400	445
	B	70	75	90	100	105	120	140	150	175	210	240	290	355	400
	C	51	56	67	76	81	96	116	126	151	182	212	262	324	368
	D	12	14	14	16	16	16	18	18	18	20	22	22	24	24
	n-φd	4-15	4-15	4-19	4-19	4-19	4-19	4-19	8-19	8-19	8-23	12-23	12-23	12-25	16-25