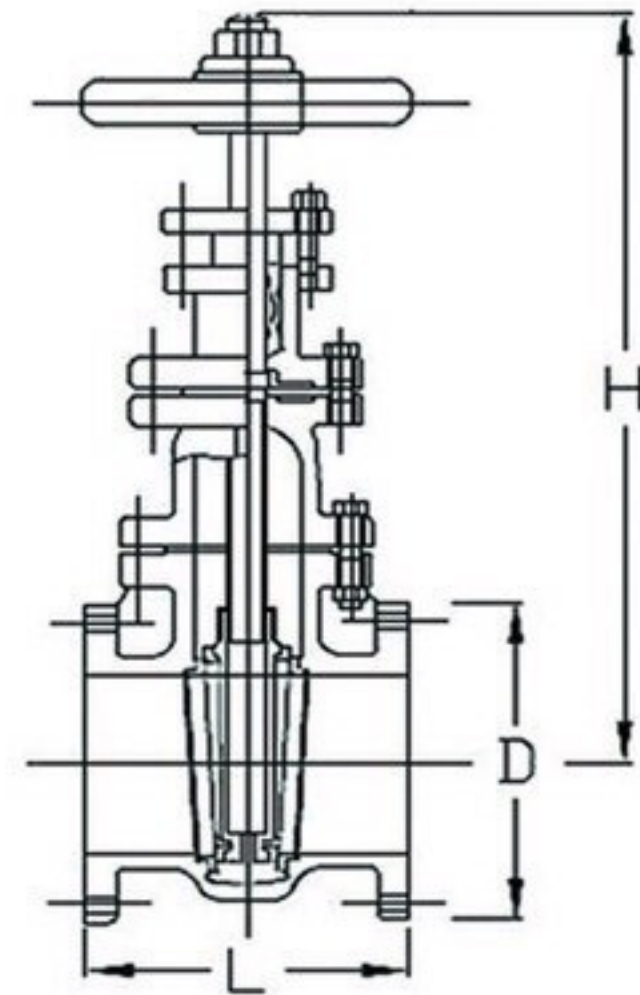


Cast Iron Gate Valve (Outside Screw), JIS 10K

Model : IGA-F1



Specification Standards :

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

Features :

- Bolted bonnet, outside screw and yoke, rising stem
- Solid wedge disc design
- Hand - wheel operation

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	Cast iron (FC200)
2 Bonnet	Cast iron (FC200)
3 Stem	Stainless steel (SS410)
4 Disc	Cast iron (FC200)
5 Seat ring	Bronze / Stainless steel
6 Gland	Ductile iron (FCD 450)
7 Packing	Graphite
8 Handwheel	Cast iron (FC200)

Application :

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

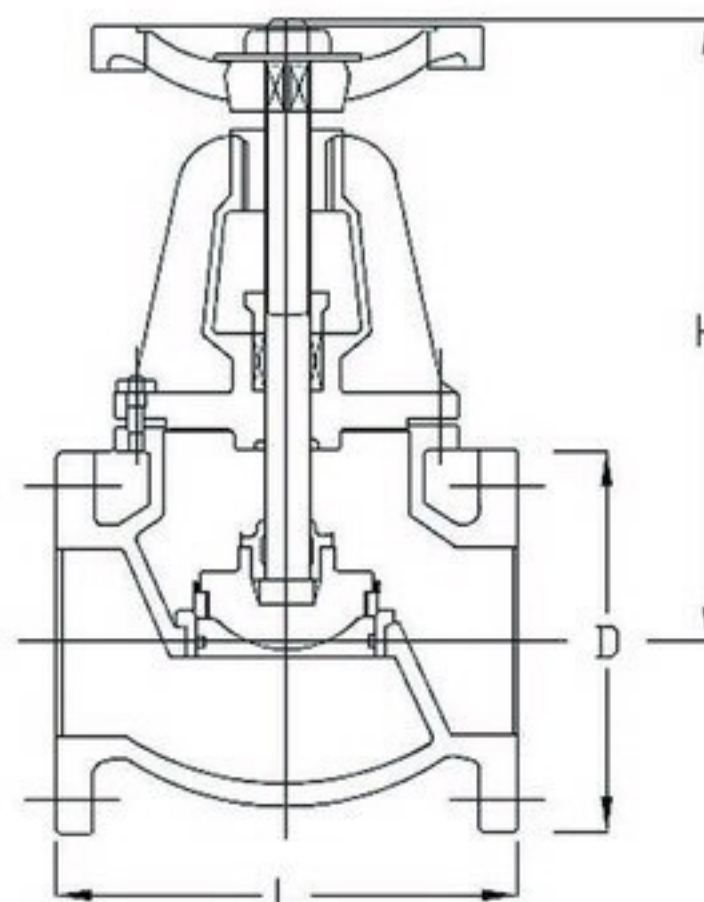
Dimensions

mm

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

Cast Iron Globe Valve, JIS 10K

Model : IGL-F1



Specification Standards :

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

Features :

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

Materials :

No. Parts	Material
1 Body	Cast iron (FC200)
2 Bonnet	Cast iron (FC200)
3 Stem	Stainless steel (SS410)
4 Disc	Cast iron (FC200)
5 Seat ring	Cast bronze/st.steel (B62/SS304)
6 Gland	Ductile iron (FCD450)
7 Packing	Non asbestos
8 Handwheel	Cast iron (FC200)

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

Application :

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

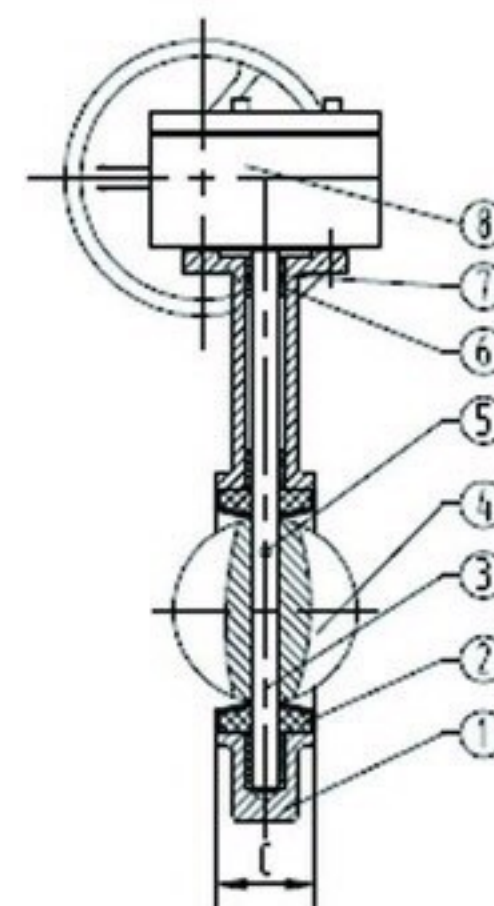
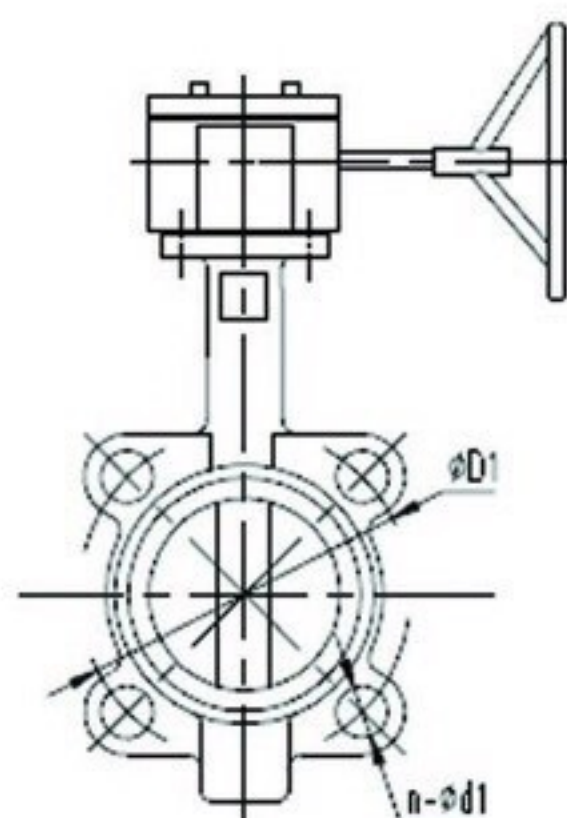
Dimensions

mm

Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
D	140	152	178	190.5	229	254	279	343	400	445
H	260	277	307	353	404	454	533	642	665	755
L	190	200	220	240	290	360	410	500	620	700

Cast Iron Wafer Type Butterfly Valve, Universal, Gear Operator

Model : IB-E04G, IB-N04G, IB-V04G, IB-T04G, IB-E16G, IB-N16G, IB-V16G, IB-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
- Gear 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	< 120 °C

Materials :

No.	Parts	Material
1	Body	Cast iron
2	Seat	EPDM
3	Shaft	Stainless steel 416
4	Disc	CF8
5	Pin	Stainless steel 304
6	Bushing	PTFE
7	O - ring	NBR
8	Gear operator	Components

Application :

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

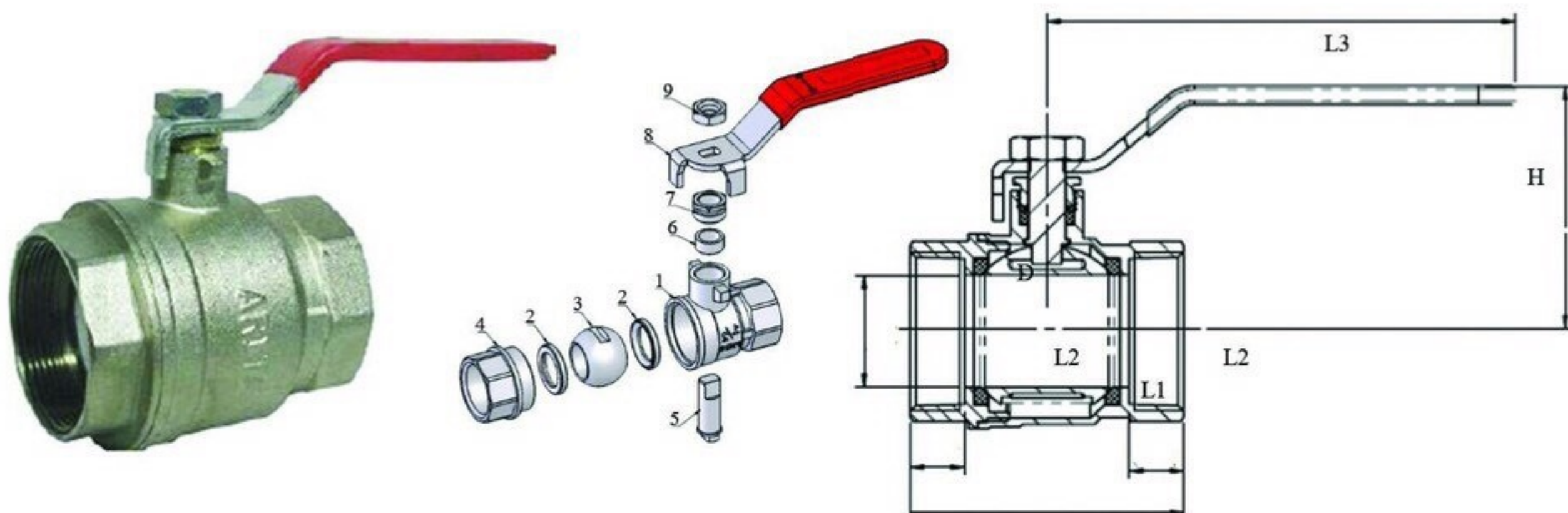
Dimensions

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	190.5	8-19	175	8-19
5"	125	54.4	210	8-18	216	8-22	210	8-23
6"	150	55.8	240	8-23	241.5	8-22	240	8-23
8"	200	60.6	295	8/12-23	298.5	12-25	290	12-23
10"	250	65.6	350 / 355	12-23/-27	362	12-25	355	12-25
12"	300	76.9	400 / 410	12-23/27	432	12-29	400	16-25
14"	350	76.5	460 / 470	16-23/27	476	12-29	400	16-25
16"	400	86.5	515 / 525	16-27/30	540	16-29	510	16-27
18"	450	105.6	656 / 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	749.5	20-35	730	24-33

Full Bore Brass Ball Valve, BSPT, Class 400 PSI

Model : AF400



Specification Standards :

- Pipe thread end is according : ISO 228 (DIN 259) BS 21 (JIS B0203)

Features :

- 2 piece body design, full port
- Screwed end BSPT/PP connection
- Forged brass
- Lever operation
- Available upon special request

Application :

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

Materials :

No.	Parts	Material
1	Body	N.P. Forged brass
2	Ball seat	PTFE
3	Ball	C.P. Brass
4	Bonnet	N.P. Forged brass
5	Stem	Brass
6	Gland	PTFE
7	Packing nut	Brass
8	Handle	C.P. Steel
9	Handle nut	N.P. Steel

*N.P. = Nickel plated, C.P. = Chrome plated

Test Requirements

Maximum Pressure	400 PSI (25 Bar)
Shell Test Pressure	600 PSI (40 Bar)
Applicable Temperature	< 120 °C

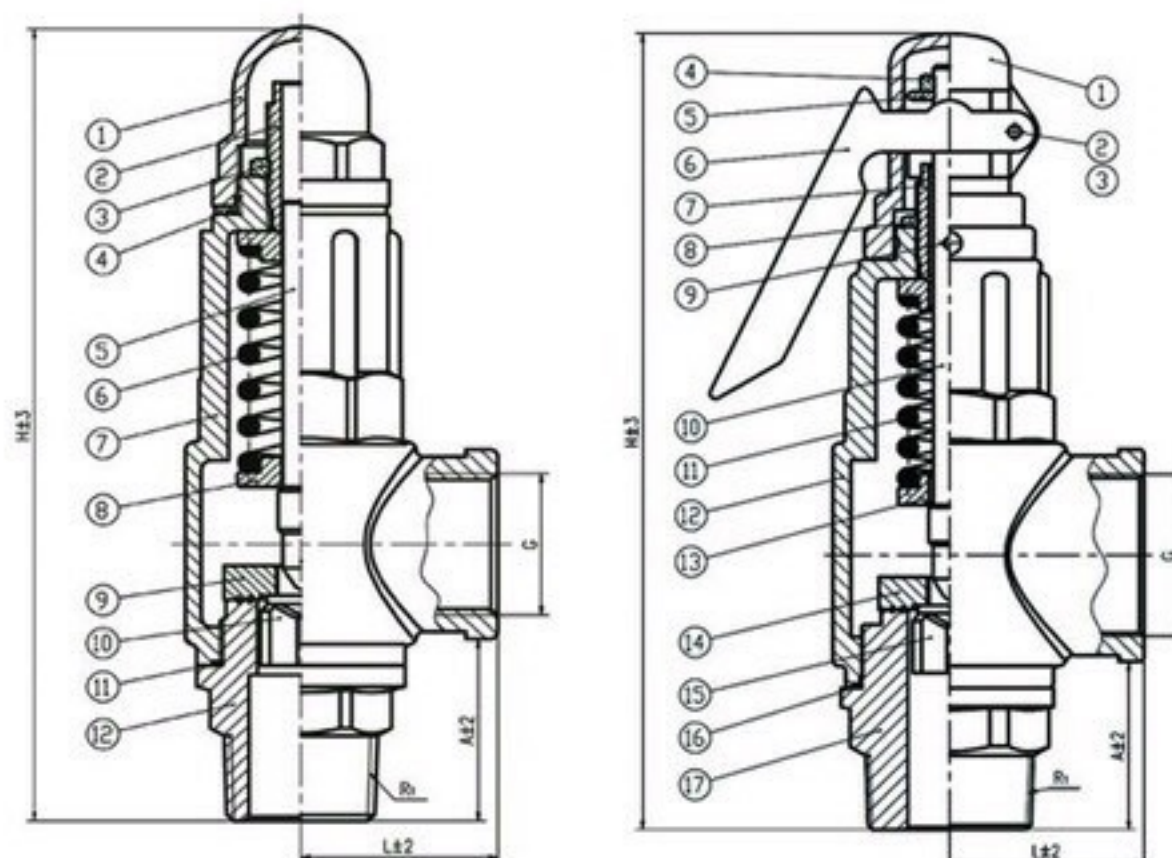
Dimensions

mm

Size	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
D	8	10	15	20	25	32	40	50	65	80	100
H	39.7	40.7	47.8	50.5	60.5	65	80.5	92	115.5	124	135.5
L1	38	43	48	58	64	73	83	99	125	153	171
L2	9	10	12	14.5	14	14.5	15	17.5	23	29	29.5
L3	89	89	98.5	98.5	125	125	140	140	236	283	283

Brass Safety Valve, BSPT, Class 200 PSI

Model : BSV-LV, BSV-NV, BSV-LM



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	C83600 (Brass)
2	Spindle	SS304
3	Ring pull	SS304
4	Nut	SS304
5	Fixed nut	CW617N (Brass)
6	Lever	SS304
7	Adjust screw	CW617N (Brass)
8	Fixed nut	CW617N (Brass)
9	Screw	SS304
10	Spindle	CW617N (Brass)
11	Spring	SS304
12	Body	C83600 (Brass)
13	Spring seat	CW617N (Brass)
14	Disc	Brass / VITON
15	Buffer	CW617N (Brass)
16	Gasket ring	PTFE
17	Seat	CW617N (Brass)

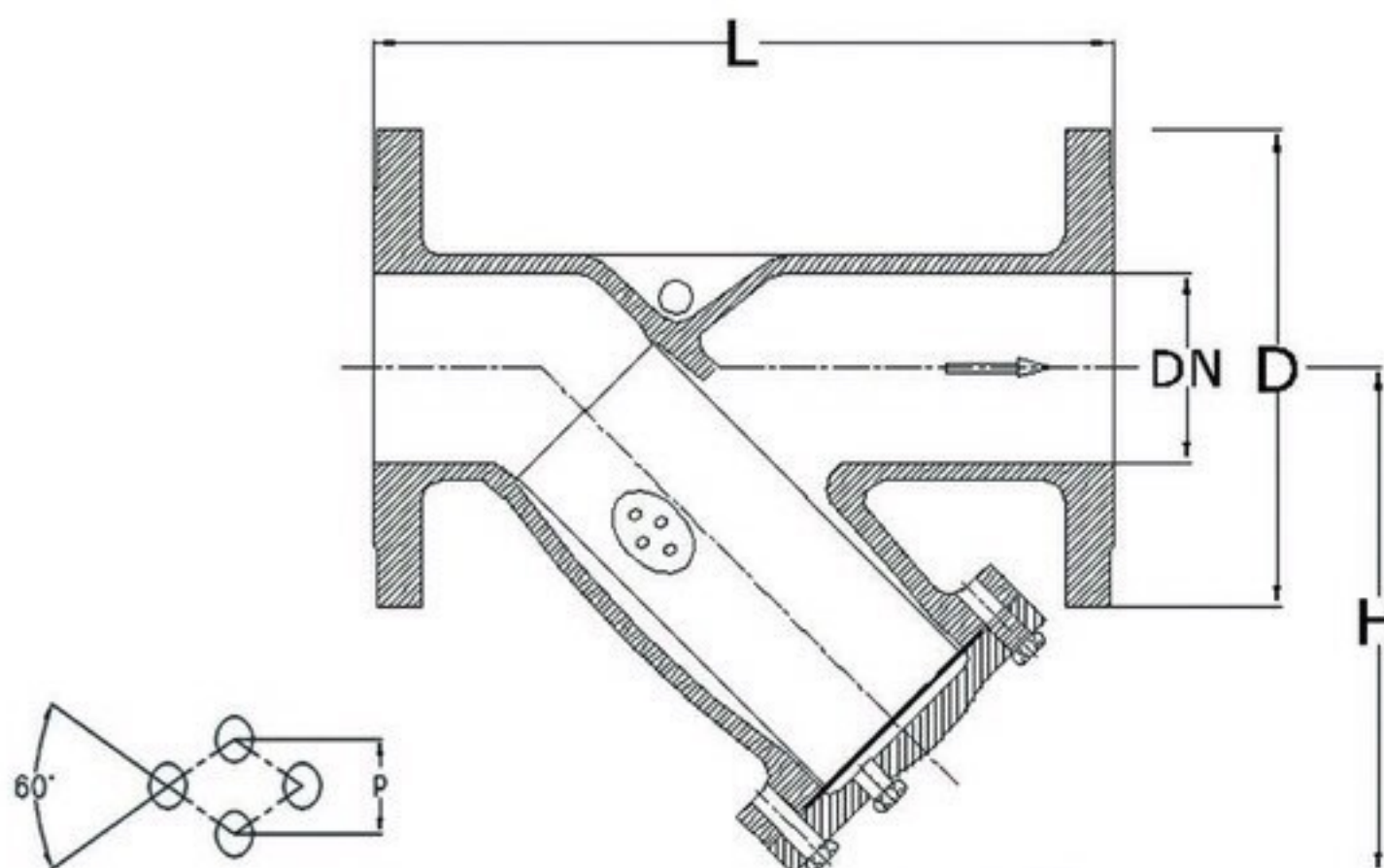
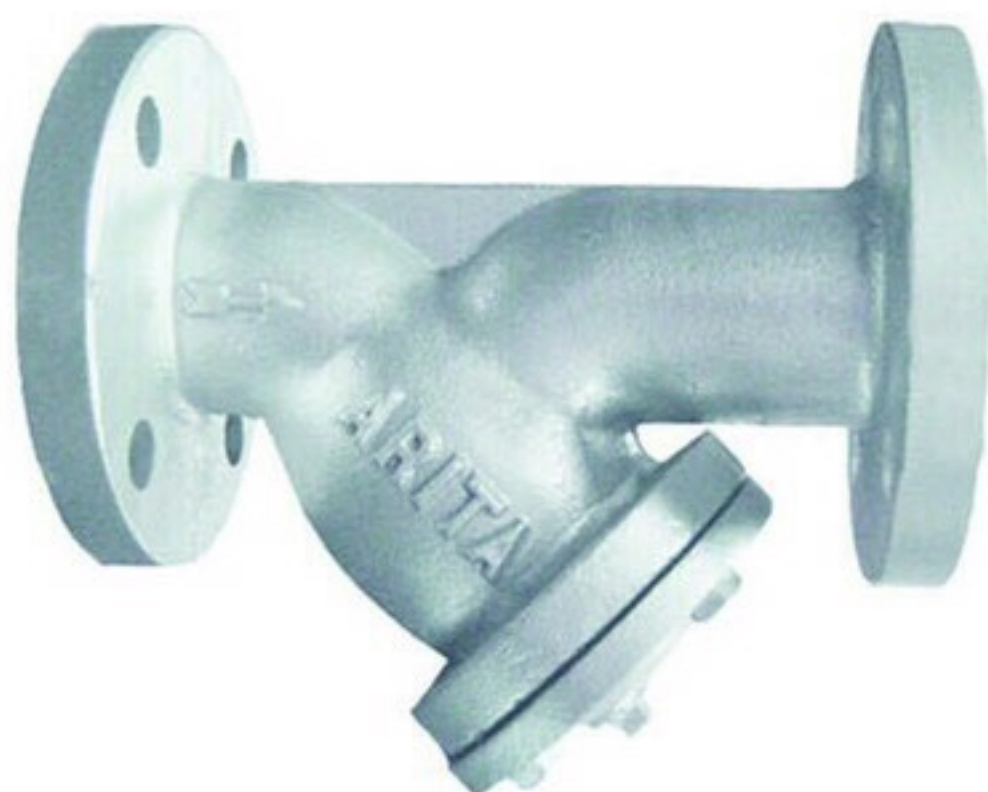
Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	Test Requirements	
A	32	33.5	41.5	46.5	51	60	Working Pressure	150 PSI (10 Bar)
DN	15	20	25	32	40	50	Maximum Pressure	200 PSI (14 Bar)
H	159.5	169	199.5	216.5	243	283	Shell Test Pressure	300 PSI (21 Bar)
L	31	35	39.5	50	59	67	Applicable Temperature	<150 °C

Cast Iron Y-Strainer, JIS 10K

Model : IY-F1



Specification Standards :

- Flange drilled is according to ASME B16.1

Features :

- Flanged end connection
- Bolted cover
- Cleaning of screen without disassembling
- Easy maintenance plug drain
- Y - Pattern body design
- Screen stainless steel
- Screen is 40-mesh

Application :

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

Screen dimensions		
DN	P	Thickness
< 5 inch	4.0	0.4
6 & 8 inch	4.0	0.65
> 10 inch	4.0	0.8

Materials :

No.	Parts	Material
1	Body	Cast iron (FC200)
2	Bonnet	Cast iron (FC200)
3	Screen	Stainless steel(SS304)
4	Drain plug	Carbon steel
5	Gasket	Graphite + SS304

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

mm

Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
D	140	155	175	185	210	250	280	330	400	445
H	125	143	162	175	220	250	290	385	438	512
L	200	250	285	315	369	420	491	570	680	800