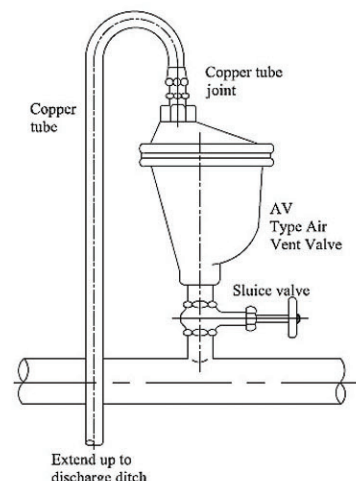
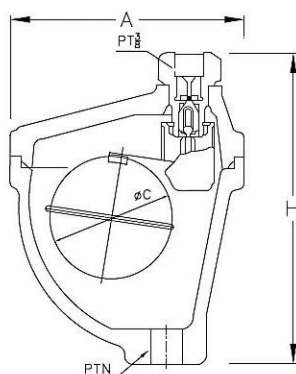


Cast Iron Automatic Air Vent Valve, BSPT

Model : IAV-S200



Specification Standards :

- Pipe Threaded end in accordance with BSPT or NPT

Features :

- Simple float operated valve that allows bleeding of air from piping systems without allowing water (liquid) to escape.
- When the valve chamber is empty the float remains in the lower position. In this position the valve is open & thus allows air to escape. As water enters the chamber it lifts the float. Finally when chamber is full of water the float is in upper position and the valve is closed thus preventing water from leaking out.
- The float is made from stainless steel for longer service life.
- The rubber seat offers good sealing to prevent leakage.

Application :

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

Materials :

No.	Parts	Material
1	Body	FC 200
2	Float	SUS 304
3	Needle	Brass / SUS304
4	O - ring	NBR
5	Bracket pin	SUS304
6	Needle pin	SUS304
7	Orifice	NBR
8	Nipple nut	Brass
9	Nipple	Brass
10	Cap	FC 200
11	Bolt	Mild steel
12	Bracket	SUS304
13	Jam nut	Brass

Dimensions

mm

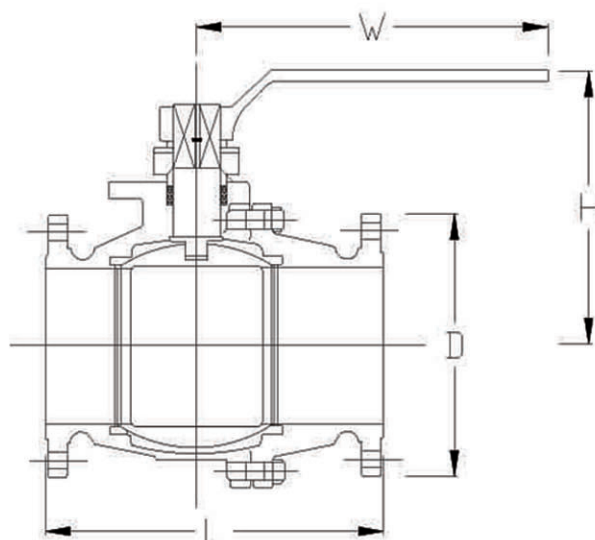
Size	A	H	C	PTN	Wt(Kg)
DN15	120	155	60	1/2"	3.1
DN20	120	155	60	3/4"	3.2
DN25	120	155	60	1"	3.5

Test Requirements

Working Pressure	150 PSI (10 Bar)
Maximum Pressure	200 PSI (14 Bar)
Shell Test Pressure	300 PSI (21 Bar)
Applicable Temperature	< 100 °C

Cast Iron Ball Valve, ANSI 150 PSI

Model : IBA-F2



Specification Standards :

- Face to face dimensions : ASME B16.10
- Face to face connection : ASME B16.5

Features :

- Floating ball design
- Full port 2 - piece design
- Adjustable stem packing
- Lever handle operation
- 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	< 120 °C

Materials :

No.	Parts	Material
1	Body	A126 Class B
2	Cap	A126 Class B
3	Stem	SUS304
4	Ball	A351 GR. CF8
5	Grand	A126 Class B
6	Grand packing	PTFE
7	Ball seat	PTFE
8	Gasket	PTFE
9	Thrust washer	PTFE
10	Handle	A126 Class B

Application :

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

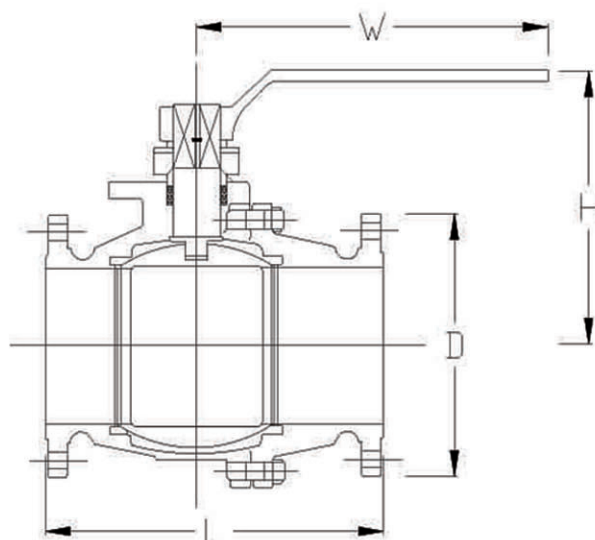
Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"
D	89	98	108	117	127	152	178	191	229	254	279	343	406
H	59	63	75	86	105	115	135	155	170	195	240	295	380
L	108	118	127	141	165	181	193	204	229	356	393	455	533
W	120	140	150	195	205	245	285	300	320	350	380	420	WORM

Cast Iron Ball Valve, ANSI 150 PSI

Model : IBA-F2



Specification Standards :

- Face to face dimensions : ASME B16.10
- Face to face connection : ASME B16.5

Features :

- Floating ball design
- Full port 2 - piece design
- Adjustable stem packing
- Lever handle operation
- 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	< 120 °C

Materials :

No.	Parts	Material
1	Body	A126 Class B
2	Cap	A126 Class B
3	Stem	SUS304
4	Ball	A351 GR. CF8
5	Grand	A126 Class B
6	Grand packing	PTFE
7	Ball seat	PTFE
8	Gasket	PTFE
9	Thrust washer	PTFE
10	Handle	A126 Class B

Application :

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

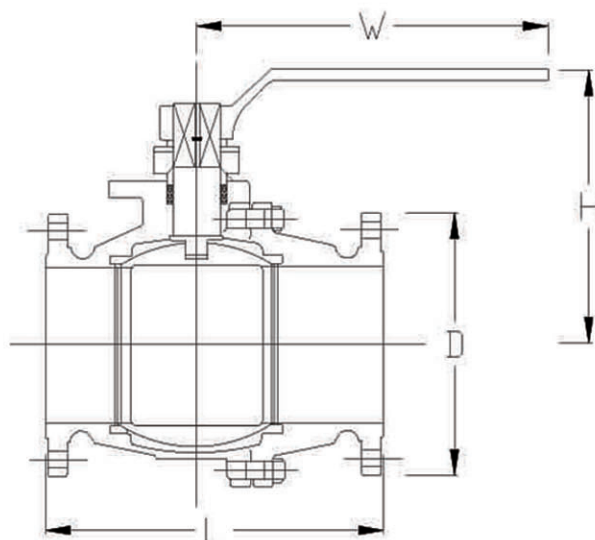
Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"
D	89	98	108	117	127	152	178	191	229	254	279	343	406
H	59	63	75	86	105	115	135	155	170	195	240	295	380
L	115	117	127	140	165	178	190	203	229	356	394	457	533
W	120	140	150	195	205	245	285	300	320	350	380	420	WORM

Cast Iron Ball Valve, JIS 10K

Model : IBA-F1



Specification Standards :

- Face to face dimensions : JIS B2002
- Face to face connection : JIS B2212/2213

Features :

- Floating ball design
- Full port 2 - piece design
- Adjustable stem packing
- Lever handle operation
- 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	< 120 °C

Materials :

No.	Parts	Material
1	Body	FC200
2	Cap	FC200
3	Stem	SUS304
4	Ball	SCS13A
5	Grand	FC200
6	Grand packing	PTFE
7	Ball seat	PTFE
8	Gasket	PTFE
9	Thrust washer	PTFE
10	Handle	FC200

Application :

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

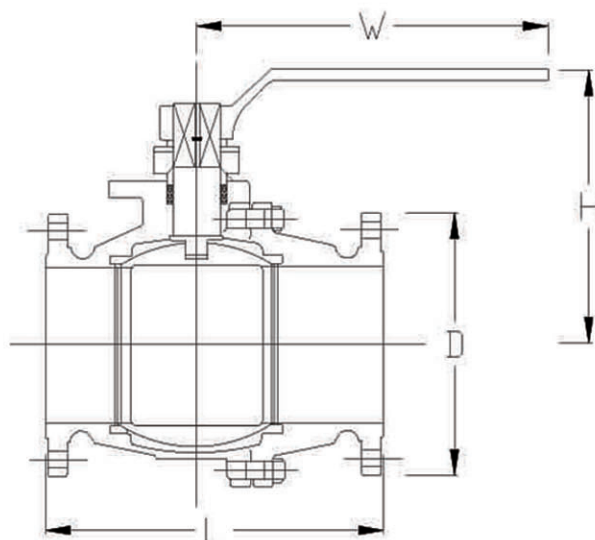
Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"
D	95	100	125	135	140	155	175	185	210	250	280	330	400
H	55	59	70	97	97	106	141	150	183	230	250	342	345
L	114	118	129	141	167	180	192	240	230	300	340	450	533
W	135	135	135	135	210	210	340	340	340	675	675	675	800

Cast Iron Ball Valve, JIS 10K

Model : IBA-F1



Specification Standards :

- Face to face dimensions : JIS B2002
- Face to face connection : JIS B2212/2213

Features :

- Floating ball design
- Full port 2 - piece design
- Adjustable stem packing
- Lever handle operation
- 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	< 120 °C

Materials :

No.	Parts	Material
1	Body	FC200
2	Cap	FC200
3	Stem	SUS304
4	Ball	SCS13A
5	Grand	FC200
6	Grand packing	PTFE
7	Ball seat	PTFE
8	Gasket	PTFE
9	Thrust washer	PTFE
10	Handle	FC200

Application :

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

Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"
D	95	100	125	135	140	155	175	185	210	250	280	330	400
H	59	63	75	86	105	115	135	155	170	195	240	295	380
L	115	117	127	140	165	178	190	203	230	356	394	457	533
W	120	140	150	195	205	245	285	300	320	350	380	420	Gear

Cast Iron Ball Valve, PN 16

Model : IBA-F3

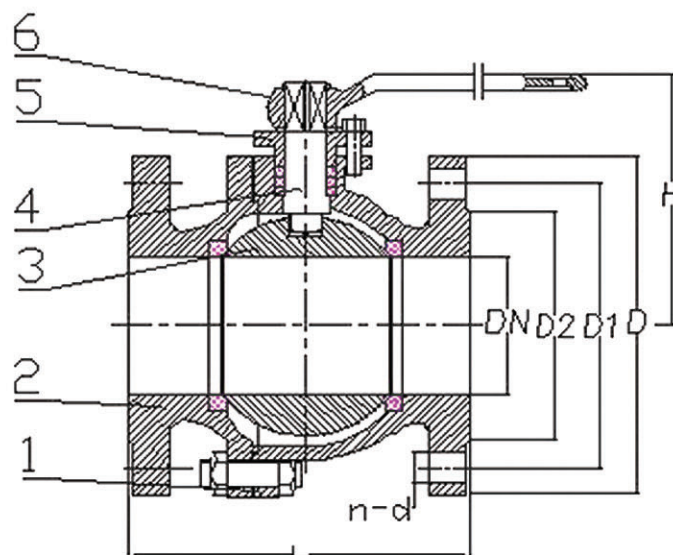


Specification Standards :

- Flange drilled is according to BS 4504

Features :

- Flanged end connection
- 2-pieces body design
- Full port
- Lever handle operation
- Note :
 - Virgin PTFE or carbon - filled PTFE (reinforced - PTFE) (carbon filled) are available up on request



Materials :

No.	Parts	Material
1	Body	Cast iron (GG25)
2	Bonnet	Cast iron (GG25)
3	Ball	Stainless steel SS304
4	Stem	Stainless steel SS410
5	Seat	PTFE
6	Handle	Ductile iron (GGG50)

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, oil

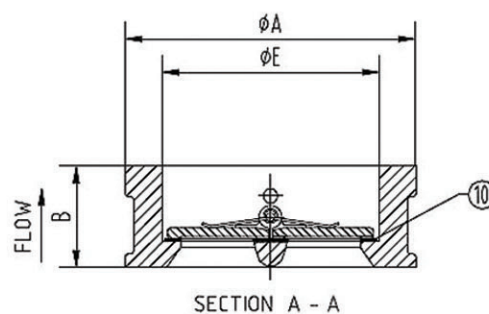
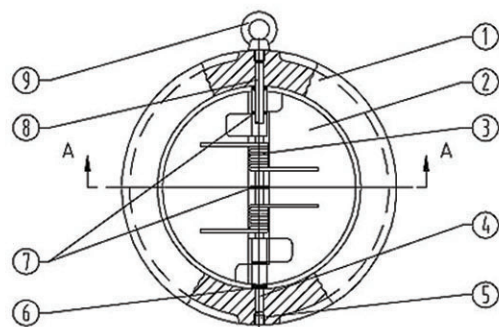
Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"
D	95	105	115	140	150	165	185	200	220	250	285	340	533
H	59	63	75	86	105	115	135	155	170	195	240	295	380
L	115	117	127	140	165	178	190	203	229	356	394	457	533
W	120	140	150	195	205	245	285	300	320	350	380	420	WORM

Cast Iron Double Door Wafer Check Valve, Universal

Model : IDD-FU04, IDD-FU16



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

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	Plate	CF8 / CF8M / DI
3	Spring	Stainless steel 304
4	Hinge pin	Stainless steel 416
5	Plug	Carbon steel
6	Body bearing	PTFE
7	Spring bearing	PTFE
8	Stop pin	Stainless steel 416
9	Eye bolt	Carbon steel (8" - 12")
10	Body seat	EPDM / NBR / VITON

Application :

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

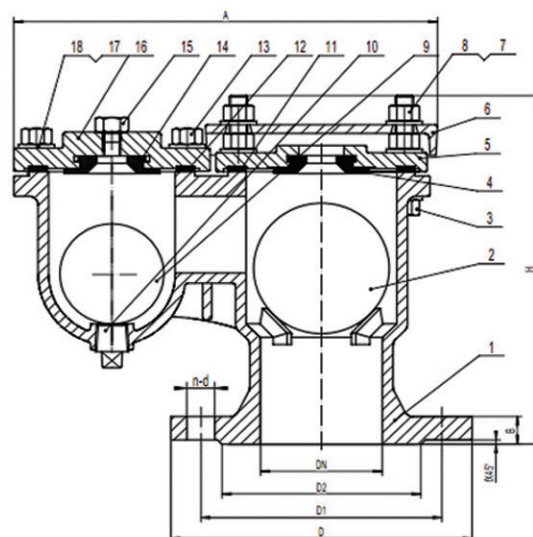
Dimensions

mm

	Size	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
A	JIS 10K	101	121	131	156	187	217	267	330	375
	DIN PN 10 / 16	107	127	142	162	192	218	273	328	378/382
	ANSI 150	102	121	133	171	193	219	276	336	406
B		43	46	64	64	70	76	89	114	114
E		65	80	94	117	145	170	224	265	310

Ductile Iron Air Release Valve, PN 16

Model : IAV-F3



Specification Standards :

- IAV-F3 conforms to JKR20200 - 0043 - 99
- Face drilled conforms to BS EN1092 - 2
- DN25 is joint by screw thread

Features :

- Screw end connection (DN25)

Application :

- For general and industrial services
- Applicable medium : water, oil
- Max working pressure : 1.6MPa
- Max working temperature : $\leq 100^{\circ}\text{C}$

Test Requirements

Working Pressure	150 PSI (10 Bar)
Maximum Pressure	200 PSI (14 Bar)
Shell Test Pressure	300 PSI (21 Bar)
Applicable Temperature	$< 100^{\circ}\text{C}$

Materials :

No.	Parts	Material
1	Body	Ductile iron
2	Float ball	Plastic ABS
3	Bolt	Steel
4	Ball seal large orifice	EPDM
5	Large orifice cover	Ductile iron
6	Duts cap	Ductile Iron
7	Nut	Steel
8	Washer	Steel
9	Float ball	Plastic ABS
10	Screw plug	Steel
11	Ball seal large orifice	EPDM
12	Gasket	EPDM
13	Bolt	Steel
14	Sealed orifice	EPDM
15	Screw plug	Brass
16	Small orifice cover	Ductile iron
17	Nut	Steel
18	Washer	Steel

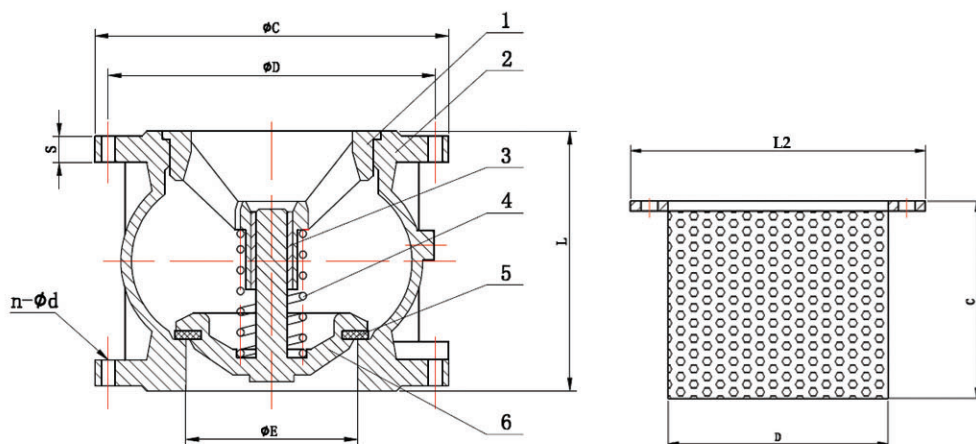
Dimensions

mm

Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"
B	19	19	19	19	19	19	19	20	22
D	150	165	185	200	220	250	285	340	405
D1	110	125	145	160	180	210	240	295	355
D2	84	99	118	132	156	184	211	266	319
F	3	3	3	3	3	3	3	3	3
n-d	4-19	4-19	4-19	8-19	8-19	8-19	8-23	12-23	12-28

Cast Iron Foot Valve, JIS 10K

Model : IFT-F1



Specification Standards :

- Flange drilled is according to JIS B2212

Features :

- Flanged end connection
- Stainless steel sleeve
- Synthetic seating ring
- Full port area
- Silent operation - short linear stroke

Application :

- For general and industrial services
- Applicable medium : water

Materials :

No.	Parts	Material
1	Guide	GGG40
2	Body	GG25 GGG40
3	Guiding stem	F4
4	Spring	SS316
5	Seal	NBR / EPDM
6	Disc	GGG40

Test Requirements

Working Pressure	150 PSI (10 Bar)
Maximum Pressure	200 PSI (14 Bar)
Shell Test Pressure	300 PSI (21 Bar)
Applicable Temperature	< 80 °C

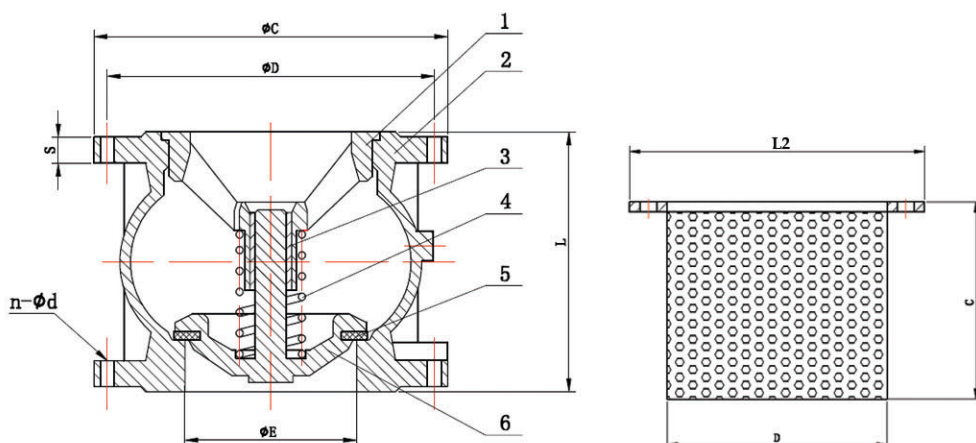
Dimensions

mm

Size	2"	2-1/2"	3"	4"	5"	6"	8"	10"
ØC	165	185	200	220	250	285	340	405
ØD	120	140	150	175	210	240	290	355
ØE	50	65	80	101	127	145	194	245
L	100	120	140	170	200	230	301	370
n - Ød	4-19	4-19	8-19	8-19	8-23	8-23	12-23	12-26
S	17	17	19	21	23	23	27	29

Cast Iron Foot Valve, PN16

Model : IFT-F3



Specification Standards :

- Flange drilled is according to BS EN1092-2
- Valve inspection and testing according to EN12516, EN12266

Features :

- Flanged end connection
- Stainless steel sleeve
- Synthetic seating ring
- Full port area
- Silent operation - short linear stroke

Application :

- For general and industrial services
- Applicable medium : water

Materials :

No.	Parts	Material
1	Guide	GGG40
2	Body	GG25 GGG40
3	Guiding stem	F4
4	Spring	SS316
5	Seal	NBR / EPDM
6	Disc	GGG40

Test Requirements	
Working Pressure	150 PSI (10 Bar)
Maximum Pressure	200 PSI (14 Bar)
Shell Test Pressure	300 PSI (21 Bar)
Applicable Temperature	< 80 °C

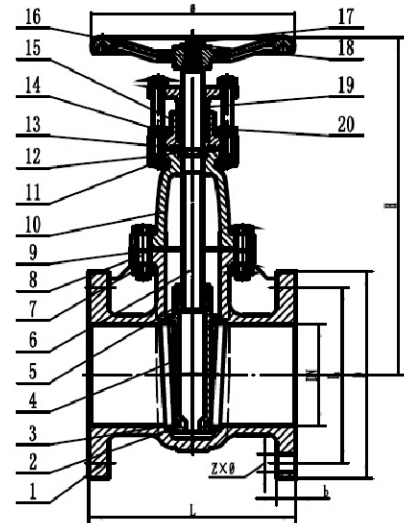
Dimensions

mm

Size	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
C	80	100	120	150	175	200	250	300	350
ϕC	165	185	200	220	250	285	340	405	460
D	111	131	148	168	198	222	278	329	384
ϕD	125	145	160	180	210	240	295	355	410
ϕE	50	65	80	105	127	145	194	245	300
L	100	120	140	170	200	230	301	370	410
L2	156	176	192	212	242	275	332	385	445
n - ϕd	4-19	4-19	8-19	8-19	8-19	8-23	12-23	12-26.5	12-26.5

Cast Iron Gate Valve (Non Rising Stem), JIS10K

Model: INGA-F1



Specification Standards :

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

Features :

- 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

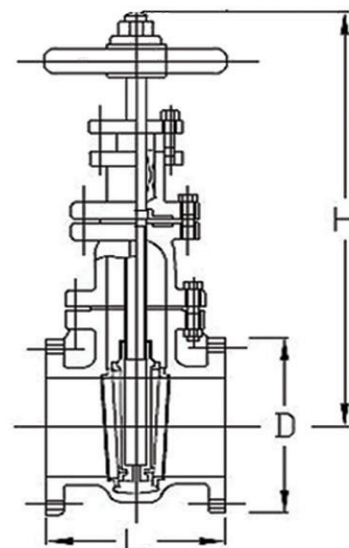
Dimensions

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 Gate Valve (Outside Screw), ANSI 150 PSI

Model : IGA-F2



Specification Standards :

- Face to face is according to ANSI B16.10
- Flange drilled is according to ANSI B16.5

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 (A126)
2 Bonnet	Cast iron (A126)
3 Stem	Stainless steel (SS410)
4 Disc	Cast iron (A126)
5 Seat ring	Bronze / Stainless steel
6 Gland	Ductile iron (FCD 450)
7 Packing	Graphite
8 Handwheel	Cast iron (A126)

Application :

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

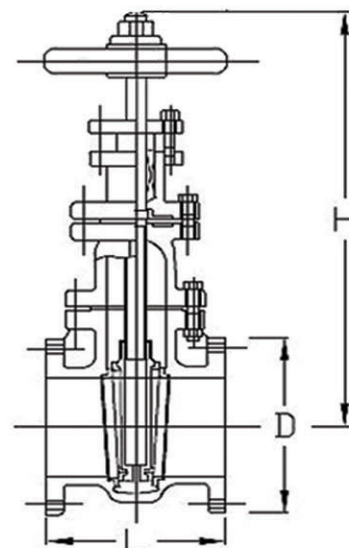
Dimensions

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 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

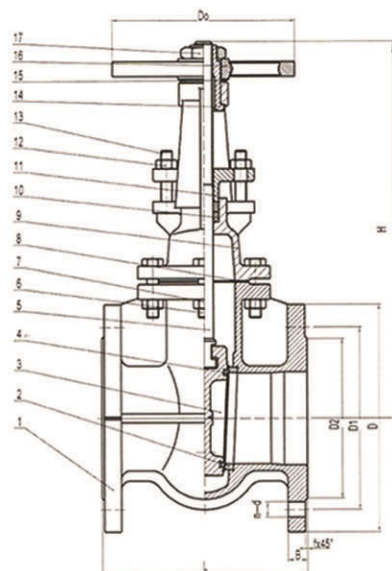
Dimensions

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 Gate Valve (OS&Y), PN 16

Model : IGA-F3



Specification Standards :

- Design, manufacture conforms to EN1171 (BS 5150)
- Face to face dimension conforms to series 3 of BS EN 558 -1
- Flange drilled conforms to BS ES1092 - 2

Features :

- Bolted bonnet
- Rising stem, Outside screw and yoke
- Solid wedge disc designed
- Hand wheel operation
- Adjustable stem packing

Application :

- For general and industrial services
- Applicable medium : water, 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	Cast iron
2	Body seat ring	Cast brass
3	Wedge	Ductile iron
4	Wedge seat ring	Brass/stainless steel
5	Stem	Stainless steel
6	Bolt	Steel
7	Nut	Steel
8	Gasket	Graphite
9	Bonnet	Ductile iron
10	Packing	Graphite
11	Gland Follower	Ductile iron
12	Nut	Steel
13	Bolt	Steel
14	Stem nut	Cast brass
15	Handwheel washer	Cast bronze
16	Handwheel	Cast iron
17	Handwheel nut	Ductile iron

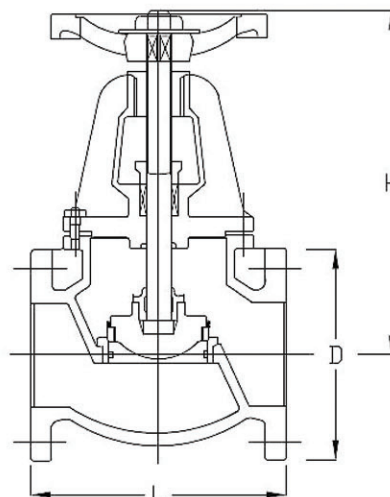
Dimensions

mm

Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
L	140	178	191	202	229	252	269	291	331	350
D	150	165	185	200	220	250	285	340	405	460
D1	110	125	145	160	180	210	240	295	355	410
D2	80	102	124	140	158	188	212	268	320	378
B	16	16	16	17	17	18	20	21	23	24
F	2	2	2	2	2	3	3	3	3	4
n-d	4-19	4-19	4-19	8-19	8-19	8-19	8-23	12-23	12-28	12-28
Do	160	160	160	160	200	200	250	250	320	320
H	244/295	254/315	294/371	331/424	385/500	457/598	545/711	683/901	823/1093	952/1273

Cast Iron Globe Valve, ANSI 150 PSI

Model : IGL-F2



Specification Standards :

- Face to face is according to ANSI B16.10
- Flange drilled is according to ANSI B16.5

Features :

- Bolted bonnet, outside screw and yoke, rising stem
- Plug disc design
- Hand - Wedge operation
- 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	< 120 °C

Materials :

No. Parts	Material	
1	Body	Cast iron (A126)
2	Bonnet	Cast iron (A126)
3	Stem	Stainless steel (SS410)
4	Disc	Cast iron (A126)
5	Seat ring	Cast bronze/st.steel (BC6/SS304)
6	Gland	Ductile iron (FCD450)
7	Packing	Non asbestos
8	Handwheel	Cast iron (A126)

Application :

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

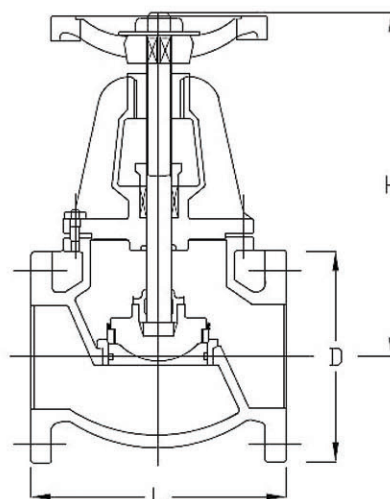
Dimensions

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 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

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	Cast bronze/st.steel (B62/SS304)
6	Gland	Ductile iron (FCD450)
7	Packing	Non asbestos
8	Handwheel	Cast iron (FC200)

Application :

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

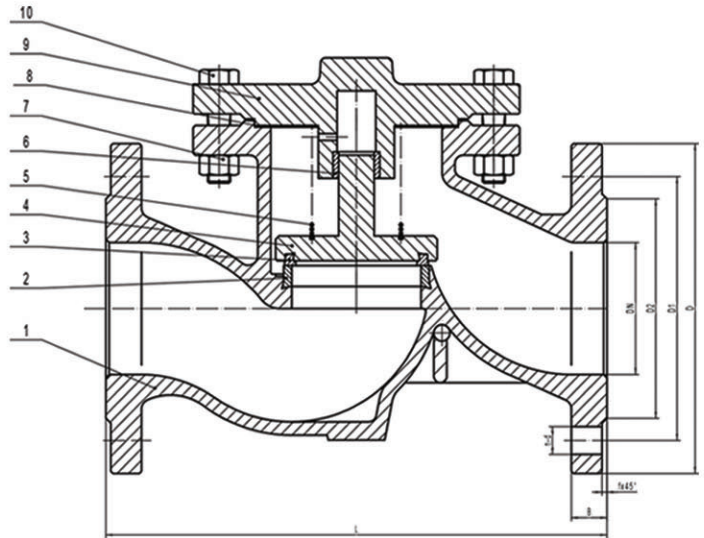
Dimensions

mm

Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
D	140	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 S-Pattern Lift Check Valve, PN16

Model : ILC-F3



Specification Standards :

- Face to face dimension conforms to series 1
- Flange drilled conforms to BS EN1092- 2 of BS EN558-1

Features :

- Reduce the flow resistance
- Pressure drop to the minimum possible extend
- Suitable to mount in horizontal position only

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

Materials :

No.	Parts	Material
1	Body	Cast iron
2	Body seat ring	Stainless steel
3	Disc seat ring	Stainless steel
4	Disc	Cast iron
5	Spring	Stainless steel
6	Bushing	Brass
7	Nut	Steel
8	Gasket	Graphite
9	Bonnet	Cast Iron
10	Bolt	Steel

Application :

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

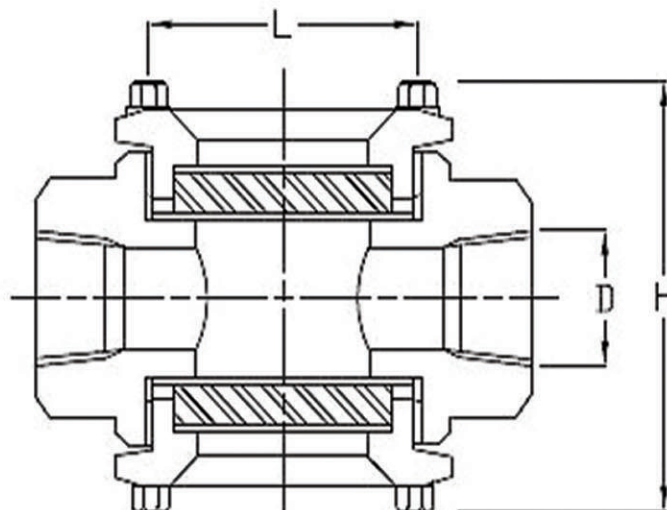
Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
B	14	16	16	18	18	20	20	22	24	26	26	30	32	32
D	95	105	115	140	150	165	185	200	220	250	285	340	405	460
D1	65	75	85	100	110	125	145	160	180	210	240	295	355	410
D2	46	56	65	76	84	99	118	132	156	184	211	266	319	370
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
f	2	2	3	3	3	3	3	3	3	3	3	3	3	4
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850
n-d	4-14	4-14	4-14	4-19	4-19	4-19	4-19	8-19	8-19	8-19	8-23	12-23	12-28	12-28

Cast Iron Sight Glass, BSPT

Model : ISG-SF, ISG-SNF



Specification Standards :

- Pipe Threaded end in accordance with BSPT or NPT

Features :

- Flapper type design
- See through
- Is device to be used visually to check the flow condition at the both sides through the transparent inside
- The oscillating amount of the flapper responding to flux is to depend upon the flow condition enough to check easily
- Specially hardened glass and stainless steel flapper ensures to endure over load, reverse flow and endure at water hammer

Application :

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

Materials :

No.	Parts	Material
1	Body	Cast iron (FC200)
2	Cap	Cast iron (FC200)
3	Glass	Tempered glass
4	Flapper	Stainless steel (SS304)
5	Gasket	Compressed asbestos fibre

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

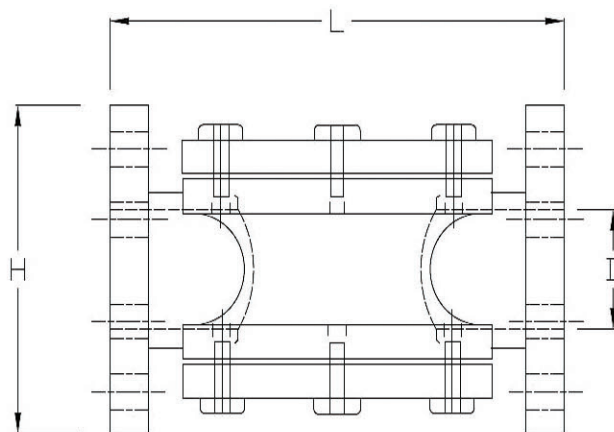
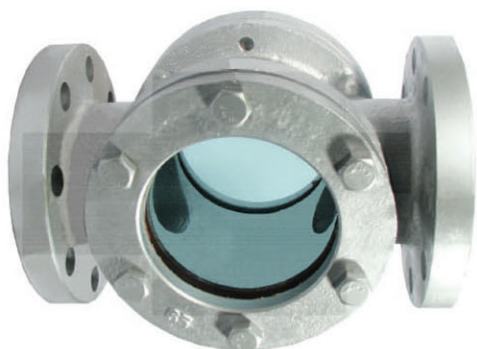
Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
D	15	20	25	32	40	50
H	65	76	86	107	117	138
L	93	98	118	137	142	156
Wt(Kg)	0.78	0.93	1.54	2.87	3.14	4.27

Cast Iron Sight Glass, JIS 10K

Model : ISG-F1



Specification Standards :

- Flange drilled is according to JIS B2210

Features :

- See through
- Can be installed horizontally or vertically facing up wards

Materials :

No.	Parts	Material
1	Body	Cast iron (FC200)
2	Cap	Cast iron (FC200)
3	Glass	Tempered glass
4	Gasket	Graphite

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

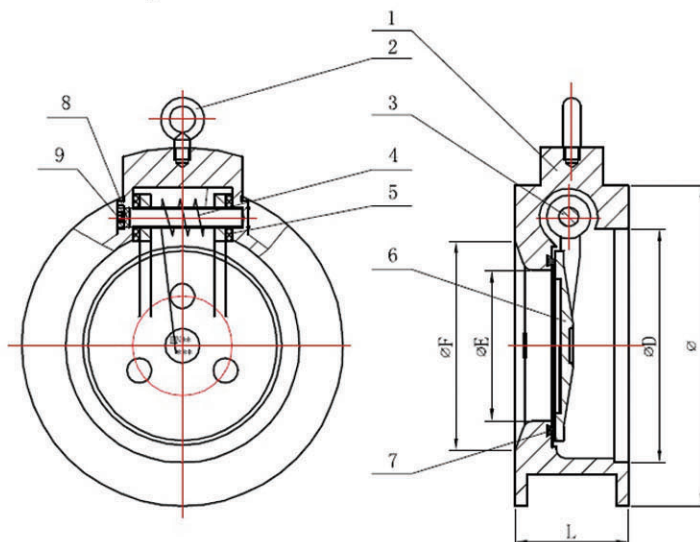
Dimensions

mm

Size	2"	2-1/2"	3"	4"
D	50	65	80	100
H	155	175	185	210
L	221	271	271	316
Wt(Kg)	9.2	18	19.2	30

Cast Iron Single Door Wafer Check Valve, Universal

Model : ISD-FU04



Specification Standards :

- Suitable for flange : DIN2501 PN10/16, BS4504 PN10/16

Features :

- The valve are designed to prevent reverse flow automatically

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	CI / DI / Stainless steel
2	Hanger	Carbon steel
3	Stem	Stainless steel
4	Spring	Spring steel
5	Gasket	EPDM
6	Plate	SS316 / SS304 / DI
7	O - ring	NBR / EPDM / VITON
8	Gasket	NBR
9	Screw block	Carbon steel

Application :

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

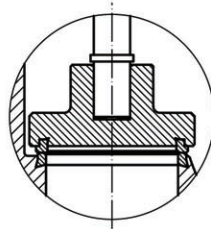
Dimensions

mm

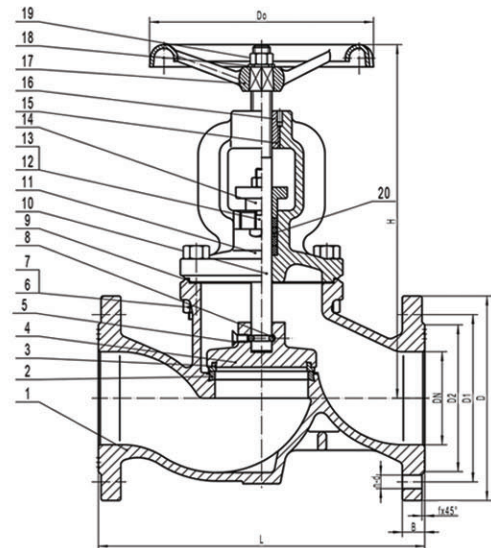
Size			2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
D			64	79	92.5	118	147	178.5	235	281	335
E			33	42.9	52.4	76.2	95	118	163.5	193.7	241.3
F			60	73	83.5	106	128	150	200	238	287
L			44.5	47.6	50.8	57.2	63.5	69.9	73	79.4	85.7
Ø	DIN2501	PN10 PN16	107	127	142	162	192	218	273	328 329	378 384
	BS4504	PN10 PN16								328 329	378 384

Cast Iron S-pattern Globe Valve, PN 16

Model : IGL-F3



SDNR



Specification Standards :

- Design, manufacture conforms to DIN3356
- Face to face dimension conforms to series 1 of BS EN558-1
- Flange drilled conforms to BS EN1092-2

Features :

- Bolted bonnet
- Non-rising stem
- Hand wheel operation
- Adjustable stem packing

Application :

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

Materials :

No.	Parts	Material
1	Body	Cast iron
2	Body seat ring	Stainless steel
3	Disc seat ring	Stainless steel
4	Disc	Cast iron
5	Screw	Steel
6	Nut	Steel
7	Bolt	Steel
8	Steel ball	Steel
9	Gasket	Graphite
10	Stem	Stainless steel
11	Bonnet	Cast iron
12	Bolt	Steel
13	Nut	Steel
14	Gland follower	Ductile iron
15	Stem nut	Cast brass
16	Screw	Steel
17	Handwheel	Cast iron
18	Washer	Steel
19	Nut	Steel
20	Packing	Graphite

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

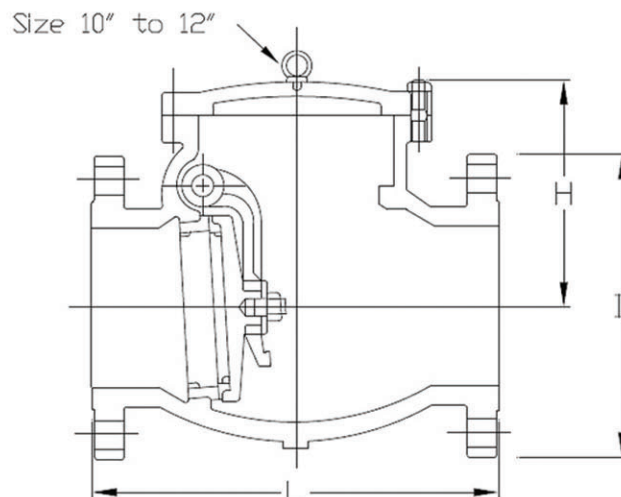
Dimensions

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	14	16	16	18	18	20	20	22	24	26	26	30	32	32
D	95	105	115	140	150	165	185	200	220	250	285	340	405	460
Do	100	100	120	120	140	140	200	200	240	280	315	360	400	400
D1	65	75	85	100	110	125	145	160	180	210	240	295	355	410
D2	46	56	65	76	84	99	118	132	156	184	211	266	319	370
F	2	2	3	3	3	3	3	3	3	3	3	3	3	4
H	161.5	169	187	223	233.5	261.5	293	341	381	419	485	569	634	801
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850
n-d	4-14	4-14	4-14	4-19	4-19	4-19	4-19	8-19	8-19	8-19	8-23	12-23	12-28	12-28

Cast Iron Swing Check Valve, ANSI 150 PSI

Model : ISW-F2



Specification Standards :

- Face to face is according to ANSI B16.10
- Flange drilled is according to ANSI B16.5

Features :

- Bolted bonnet
- The valve are designed to prevent reverse Flow automatically
- Swing type design
- Available upon request

Materials :

No.	Parts	Material
1	Body	Cast iron (A126)
2	Bonnet	Cast iron (A126)
3	Seatring	Cast bronze/st. steel(BC6/SS304)
4	Disc	Cast iron (A126)
5	Inge pen	Stainless steel (SS304)
6	Drain plug	Carbon steel (SS41)

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

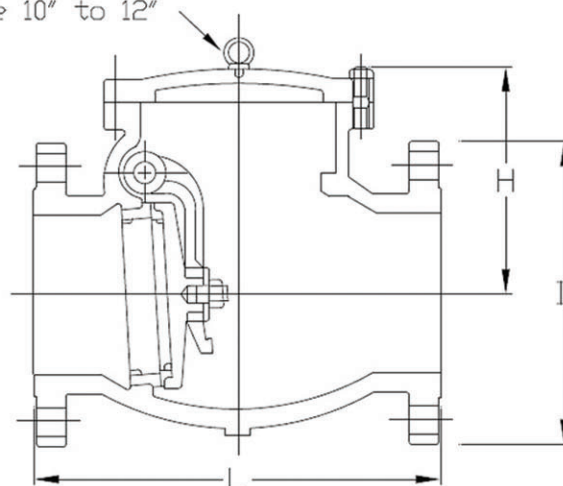
Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
D	140	155	175	185	210	250	280	330	400	445
H	100	105	115	140	155	170	203	246	283	330
L	190	203	220	240	292	330	356	495	622	698

Cast Iron Swing Check Valve, JIS 10K

Model : ISW-F1



Size 10" to 12"



Specification Standards :

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

Features :

- Bolted bonnet
- The valve are designed to prevent reverse Flow automatically
- Swing type design
- Available upon request

Materials :

No.	Parts	Material
1	Body	Cast iron (FC200)
2	Bonnet	Cast iron (FC200)
3	Seatring	Cast bronze/st. steel(B62/SS304)
4	Disc	Cast iron (FC200)
5	Inge pen	Stainless steel (SS304)
6	Drain plug	Carbon steel (SS41)

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

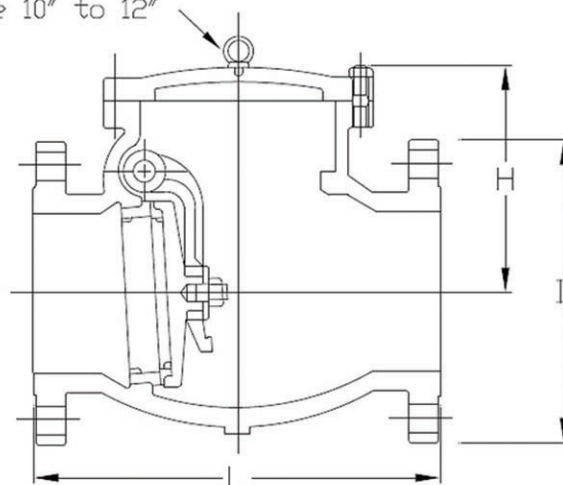
Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
D	140	155	175	185	210	250	280	330	400	445
H	100	105	115	140	155	170	203	246	283	330
L	190	203	220	240	292	330	356	495	622	698

Cast Iron Swing Check Valve, PN16

Model : ISW-F3



Size 10" to 12"



Specification Standards :

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

Features :

- Bolted bonnet
- The valve are designed to prevent reverse Flow automatically
- Swing type design
- Available upon request

Materials :

No.	Parts	Material
1	Body	Cast iron (FC200)
2	Bonnet	Cast iron (FC200)
3	Seatring	Cast bronze/st. steel(B62/SS304)
4	Disc	Cast iron (FC200)
5	Inge pen	Stainless steel (SS304)
6	Drain plug	Carbon steel (SS41)

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

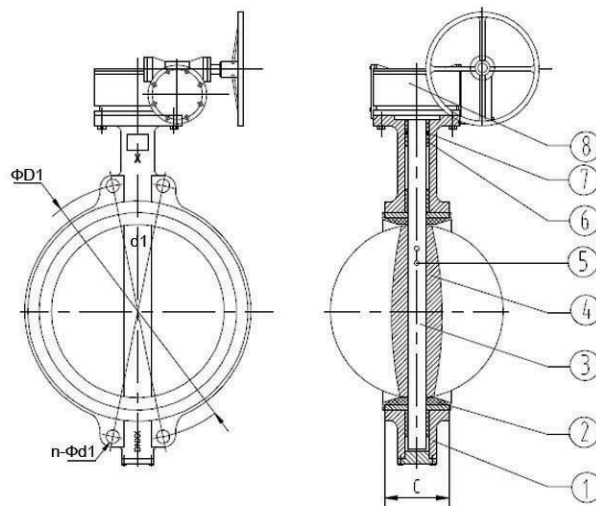
Dimensions

mm

Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
D	140	155	175	185	210	250	280	330	400	445
H	100	105	115	140	155	170	203	246	283	330
L	190	203	220	240	292	330	356	495	622	698

Cast Iron Wafer Type Butterfly Valve, Universal, Gear Operator

Model : IBF-E04G, IBF-N04G, IBF-V04G, IBF-T04G, IBF-E16G, IBF-N16G, IBF-V16G, IBF-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	CI / DI
2	Seat	EPDM
3	Shaft	SS410 / SS416
4	Disc	DI + NI / CF8 / CFM8
5	Pin	SS410 / SS416 / SS316
6	Bushing	PTFE
7	O - ring	NBR
8	Gear operator	Components

Application :

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

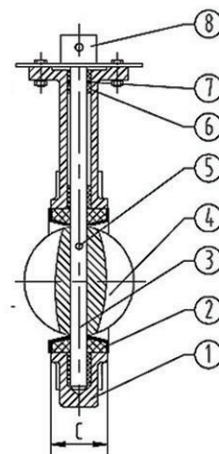
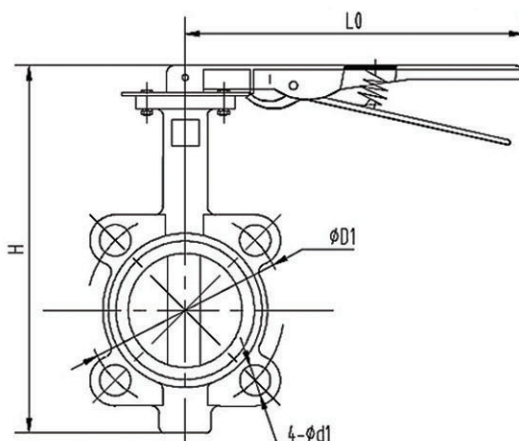
Dimensions

mm

Size	DN	C	DIN PN 10 / 16		ANSI 150		JIS 10K	
			D1	n-Ød1	D1	n-Ød1	D1	n-Ød1
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
28"	700	163	840 / 840	20-30/36	863.5	24-35	840	24-33
32"	800	188	950 / 950	20-33/39	978	24-41	950	24-33
36"	900	203	1050/1050	24-33/39	1086	28-41	1050	24-33
40"	1000	216	1160/1170	24/-6/42	1200	32-41	1160	24-39

Cast Iron Wafer Type Butterfly Valve, Universal, Lever Operator

Model : IBF-E04L, IBF-N04L, IBF-V04L, IBF-T04L IBF-E16L, IBF-N16L, IBF-V16L, IBF-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	< 120 °C

Materials :

No.	Parts	Material
1	Body	Cast iron / Ductile iron
2	Seat	EPDM / NBR / VITON / PTFE
3	Shaft	SS416 / SS410 / SS304 / SS316
4	Disc	CF8 / CF8M / DI
5	Pin	SS304
6	Bushing	PTFE
7	O - ring	NBR
8	Lever	Cast iron / Aluminium

Application :

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

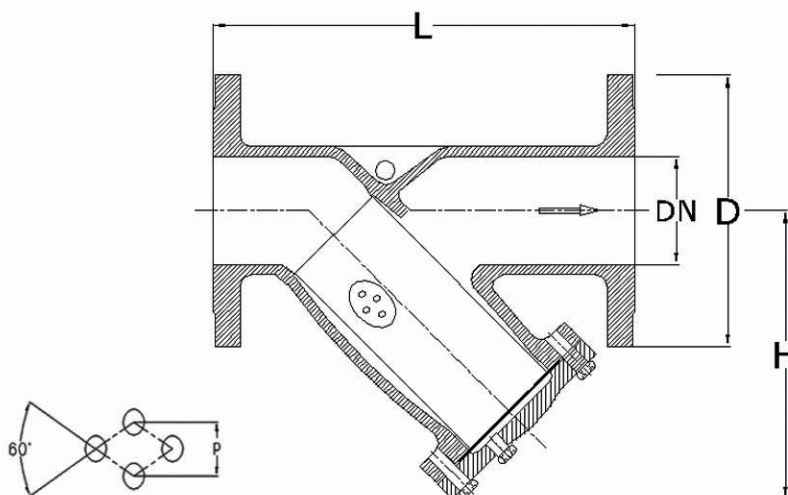
Dimensions

mm

Size	C	H	LO	DIN PN 10 / 16		ANSI 150		JIS 10K	
				D1	n-Ød1	D1	n-Ød1	D1	n-Ød1
1-1/2"	33	245	223	110	4-18	98.5	4-16	105	4-19
2"	42	265	223	125	4-18	120.5	4-19	120	4-19
2-1/2"	44.7	285	223	145	4-18	139.5	4-19	140	4-19
3"	45.2	300	223	160	4(4/8)-18	152.5	4-19	150	4(8)-19
4"	51.2	339	252	180	4(8)-18	190.5	4(8)-19	175	4(8)-19
5"	54.4	364	254	210	4(8)-18	216	4(8)-22	210	4(8)-23
6"	55.8	394	254	240	4(8)-23	241.5	4(8)-22	240	4(8)-23
8"	60.6	470	356	295	4(8/12)-23	298.5	4(8)-22	290	4(12)-23
10"	65.6	536	500	350 / 355	4(12)-23/27	362	4(12)-25	355	4(12)-25
12"	76.9	610	500	400 / 410	4(12)-23/27	432	4(12)-25	400	4(16)-25

Cast Iron Y - Strainer, PN16

Model : IYS-F3



Specification Standards :

- Flange drilled is according to DIN3532 / 2533
- Flange to face is according to DIN3202-F1

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 (A126)
2	Bonnet	Cast iron (A126)
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

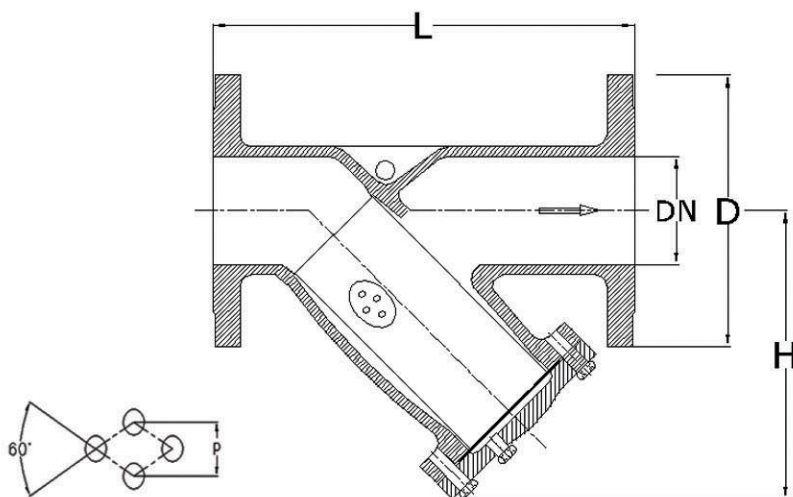
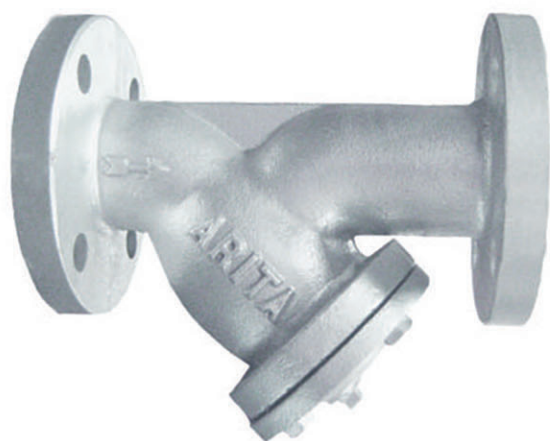
Dimensions

mm

Size	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
D	165	185	200	220	250	285	340	405	460
H	143	162	175	220	250	290	385	438	512
L	230	290	310	350	400	480	600	730	850

Cast Iron Y-Strainer Valve, ANSI 150 PSI

Model : IYS-F2



Specification Standards :

- Flange drilled is according to ASME B16.5

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 (A126)
2	Bonnet	Cast iron (A126)
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

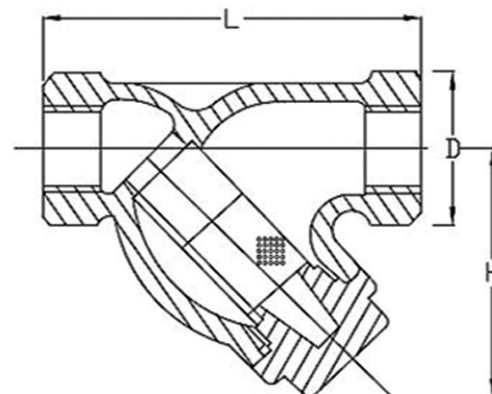
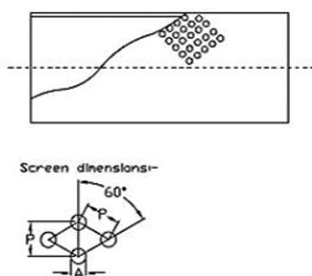
Dimensions

mm

Size	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
D	152	178	191	229	254	279	343	406	483
H	143	162	175	220	250	290	385	438	512
L	225	273	292	352	420	470	543	660	762

Cast Iron Y-Strainer, BSPT

Model : IYS-S200



Specification Standards :

- Pipe Threaded end in accordance with BSPT

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, light oil, steam

Screen Dimensions

Size	A	P	Thickness
1/2" to 2"	1.5	3.5	0.5

Materials :

No.	Parts	Material
1	Gasket	Non - asbestos
2	Body/cap	Cast iron (FC200)
3	Screen	Stainless steel (SS304)

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

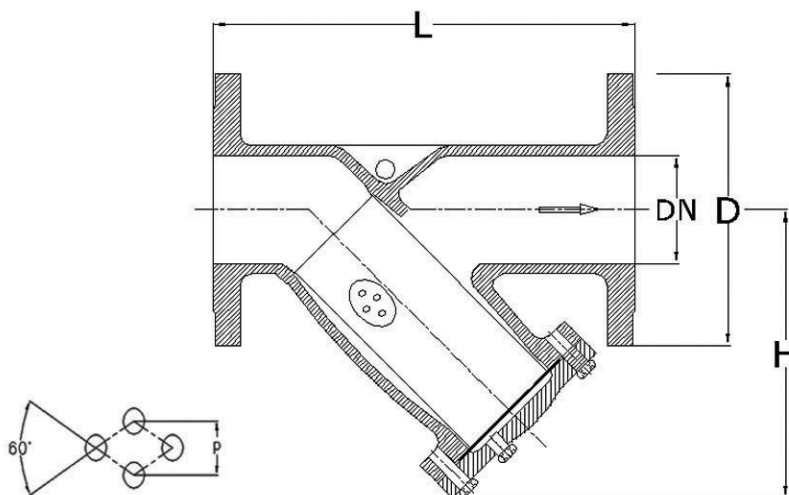
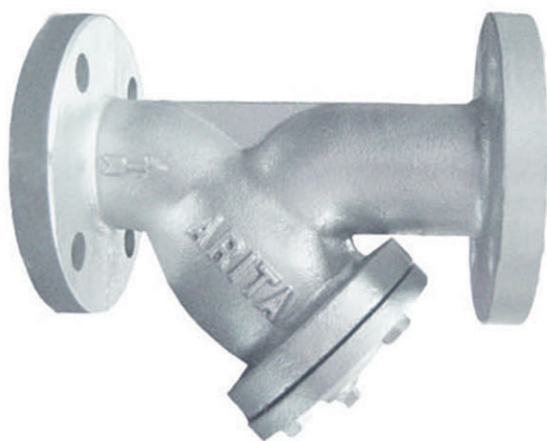
Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
D	15	20	25	32	40	50
H	62	75	86	98	107	122
L	90	105	125	148	163	180
Cv	20	40	66	120	195	310
Wt(Kg)	0.54	0.88	1.37	2.22	2.70	4.14

Cast Iron Y-Strainer, JIS 10K

Model : IYS-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

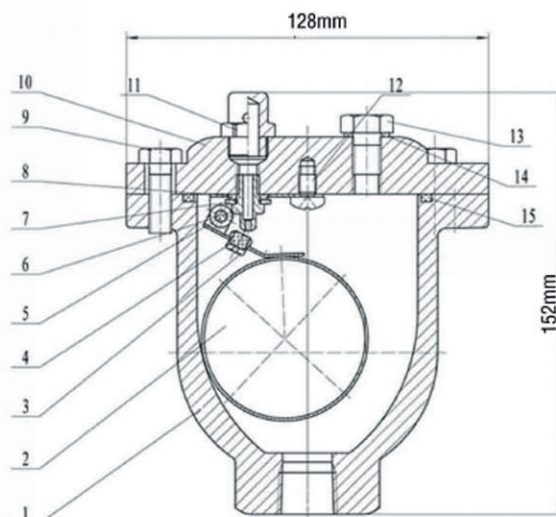
Dimensions

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

Ductile Iron Air Release Valve, NPT

Model : IAV-N300



Specification Standards :

- Design standard : BS EN 1074-4
- Threaded end connection : ANSI B1.20.1 / NPT
- Standard for pressure test : BS EN 12266

Features :

- Simple float operated valve that allows bleeding of air from piping systems without allowing water (liquid) to escape.
- When the valve chamber is empty the float remains in the lower position. In this position the valve is open & thus allows air to escape. As water enters the chamber it lifts the float. Finally when chamber is full of water the float is in upper position and the valve is closed thus preventing water from leaking out.
- The float is made from stainless steel for longer service life.
- The rubber seat offers good sealing to prevent leakage.

Application :

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

Materials :

No.	Description	Material
1	Body	Ductile iron
2	Float ball	Stainless steel
3	Bushing	Brass
4	Rubber seat	EPDM
5	Pivot pin	Stainless steel
6	Seat	Brass
7	Gasket	Stainless steel
8	O-ring seal	EPDM
9	Hexagon bolt	Mild steel(hot dip galv)
10	Cover	Ductile iron
11	Nipple	Brass
12	Screw	Stainless steel
13	Hexagon bolt	Stainless steel
14	O-ring-seal	EPDM
15	O-ring-seal	EPDM

Dimensions

mm

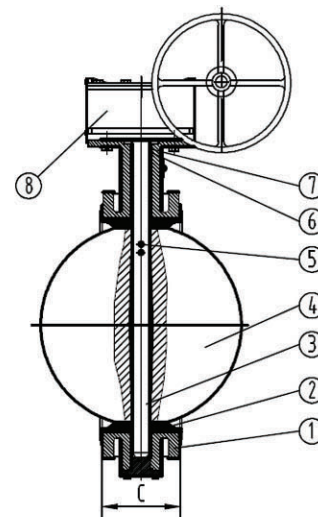
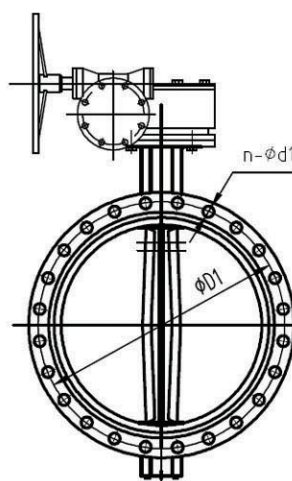
Size	A	H	C	PTN	Wt(Kg)
DN15	120	155	60	1/2"	3.1
DN20	120	155	60	3/4"	3.2
DN25	120	155	60	1"	3.5

Test Requirements

Working Pressure	300 PSI (21 Bar)
Shell Test Pressure	450 PSI (31 Bar)
Applicable Temperature	< 80 °C

Ductile Iron Concentric Double Flange Butterfly Valve, PN10

Model : IFBF-EDIG-F0



Specification Standards :

- Designed as standard : API609, EN593
- Flange as standard : EN1092-2 PN10
- 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	Ductile iron
2	Seat	EPDM
3	Shaft	SUS410
4	Disc	DI + NI
5	Pin	SUS304
6	Bushing	PTFE
7	O - ring	NBR
8	Gear operator	Components

Application :

- For general and industrial services
- Applicable medium : water

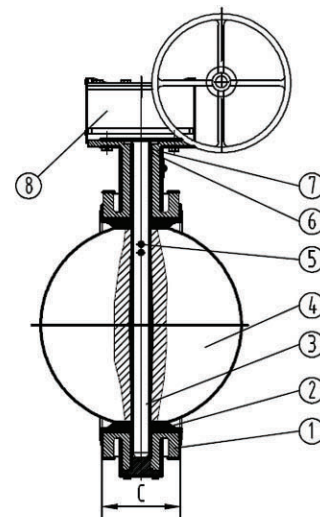
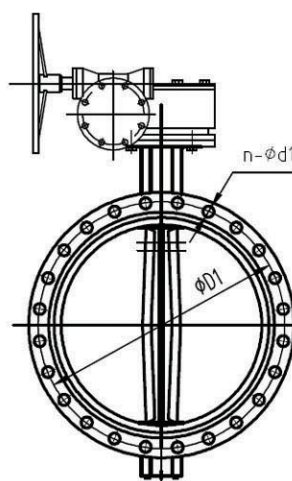
Dimensions

mm

Size	DN	C	PN 10		PN 16		Size	DN	C	PN 10		PN 16	
			D1	n-ød1	D1	n-ød1				D1	n-ød1	D1	n-ød1
2"	50	108	125	4-18	125	4-18	14"	350	190	460	16-23	470	16-27
2-1/5"	65	112	145	4-18	145	4-18	16"	400	216	515	16-27	525	16-30
3"	80	114	160	8-18	160	8-18	18"	450	222	565	20-27	585	20-30
4"	100	127	180	8-18	180	8-18	20"	500	229	620	20-27	650	20-33
5"	125	140	210	8-18	210	8-18	24"	600	267	725	20-30	770	20-36
6"	150	140	240	8-23	240	8-23	28"	700	292	840	24-30	840	24-36
8"	200	152	295	8-23	295	8-23	32"	800	318	950	24-33	950	24-39
10"	250	165	350	12-23	355	12-27	36"	900	330	1050	28-33	1050	28-39
12"	300	178	400	12-23	410	16-27	40"	1000	410	1160	28-36	1170	28-42

Ductile Iron Concentric Double Flange Butterfly Valve, PN16

Model : IFBF-EDIG-F3



Specification Standards :

- Designed as standard : API609, EN593
- Flange as standard : EN1092-2 PN16
- 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	Ductile iron
2	Seat	EPDM
3	Shaft	SUS410
4	Disc	DI + NI
5	Pin	SUS304
6	Bushing	PTFE
7	O - ring	NBR
8	Gear operator	Components

Application :

- For general and industrial services
- Applicable medium : water

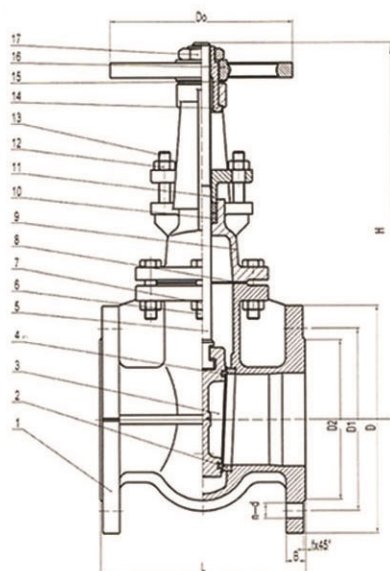
Dimensions

mm

Size	DN	C	PN 10		PN 16		Size	DN	C	PN 10		PN 16	
			D1	n-ød1	D1	n-ød1				D1	n-ød1	D1	n-ød1
2"	50	108	125	4-18	125	4-18	14"	350	190	460	16-23	470	16-27
2-1/5"	65	112	145	4-18	145	4-18	16"	400	216	515	16-27	525	16-30
3"	80	114	160	8-18	160	8-18	18"	450	222	565	20-27	585	20-30
4"	100	127	180	8-18	180	8-18	20"	500	229	620	20-27	650	20-33
5"	125	140	210	8-18	210	8-18	24"	600	267	725	20-30	770	20-36
6"	150	140	240	8-23	240	8-23	28"	700	292	840	24-30	840	24-36
8"	200	152	295	8-23	295	8-23	32"	800	318	950	24-33	950	24-39
10"	250	165	350	12-23	355	12-27	36"	900	330	1050	28-33	1050	28-39
12"	300	178	400	12-23	410	16-27	40"	1000	410	1160	28-36	1170	28-42

Ductile Iron Gate Valve (OS&Y), PN 16

Model : IDGA-F3



Specification Standards :

- Design, manufacture conforms to EN1171 (BS 5150)
- Face to face dimension conforms to series 3 of BS EN 558 -1
- Flange drilled conforms to BS ES1092 - 2

Features :

- Bolted bonnet
- Rising stem, Outside screw and yoke
- Solid wedge disc designed
- Hand wheel operation
- Adjustable stem packing

Application :

- For general and industrial services
- Applicable medium : water, 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	Cast iron
2	Body seat ring	Cast brass
3	Wedge	Ductile iron
4	Wedge seat ring	Cast brass
5	Stem	Stainless steel
6	Bolt	Steel
7	Nut	Steel
8	Gasket	Graphite
9	Bonnet	Ductile iron
10	Packing	Graphite
11	Gland Follower	Ductile iron
12	Nut	Steel
13	Bolt	Steel
14	Stem nut	Cast brass
15	Handwheel washer	Cast bronze
16	Handwheel	Cast iron
17	Handwheel nut	Ductile iron

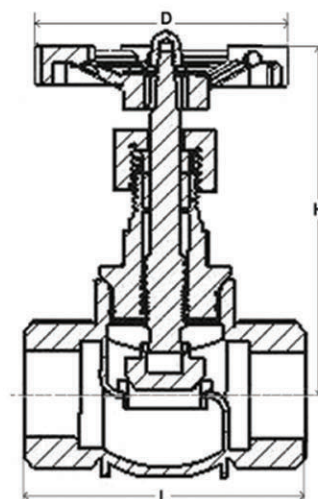
Dimensions

mm

Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
L	140	150	170	180	190	200	210	230	250	270
D	150	165	185	200	220	250	285	340	405	460
D1	110	125	145	160	180	210	240	295	355	410
D2	80	102	124	140	158	188	212	268	320	378
B	16	16	16	17	17	18	20	21	23	24
F	2	2	2	2	2	3	3	3	3	4
n-d	4-19	4-19	4-19	8-19	8-19	8-19	8-23	12-23	12-28	12-28
Do	160	160	160	160	200	200	250	250	320	320
H	244/295	254/315	294/371	331/424	385/500	457/598	545/711	683/901	823/1093	952/1273

Ductile Iron Globe Valve, BSPT

Model : IDGL-S200



Specification Standards :

- Pipe Threaded end in accordance with BSPT

Features :

- Globe valves are casted from ductile iron
- This provides the valves with superior physical and chemical properties over cast iron in tensile strength, shock, vibration, and corrosion
- The stainless steel stem with trapezoidal thread allows it to withstand higher load and longer service life
- The seat and disc are made of stainless steel with fine finished surfaces and they are self aligned to give a long leak free service

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	FCD 400
2	Bonnet	FCD 400
3	Packing nut	FCD 400
4	Stem	SUS416
5	Disc	SUS416
6	Body seat ring	SUS416
7	Gland	SUS416
8	Gland packing	Graphite
9	Handwheel	FC 200
10	Cap nut	Galvanized iron
11	Washer	Mild steel
12	Name plate	Aluminium

Application :

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

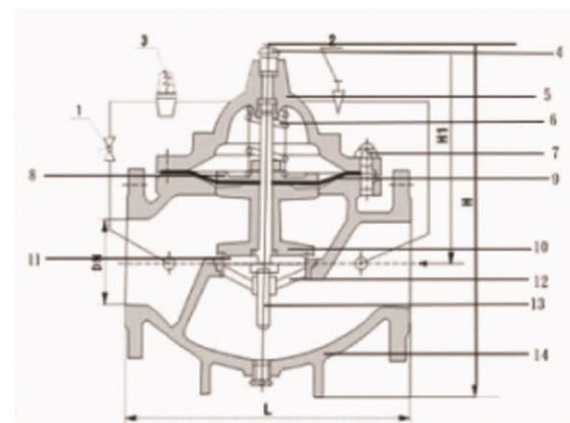
Dimensions

mm

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
D	71	71	86	86	127	127
H	93	102	121	130	148	169
L	65	80	90	105	120	140

Ductile Iron Pilot Operate Pressure Reducing Valve, PN16

Model : ICTV-PRV2-F3



Features :

- Hydraulically operated, accurate and repeatable pressure control.
- Adjust and control the main valve outlet pressure, which will not be changed along with the inlet pressure as well as the variation of the main valve outlet flow.
- Simple, reliable and easy to mount and maintain.
- Easy maintenance without removal from the main line.
- Pressure reducing pilot features easy operation and accurate pressure control.
- Full passage streamline design, of a small fluid resistance and a heavy flow, can reduce either dynamic or static pressure
- All iron components are fusion epoxy bonded for corrosion resistance.

Materials :

No.	Parts	Material
1	Ball valve	Brass
2	Ball valve	Brass
3	Needle valve	Brass
4	Plug	Stainless steel
5	Bonnet	Ductile iron
6	Spring	Stainless steel
7	Nut	Stainless steel
8	Plate	Ductile iron
9	Diaphragm	Rubber
10	Trim	Ductile iron
11	Gasket	Rubber
12	Seat	Iron/Brass
13	Stem	Stainless steel
14	Body	Ductile iron

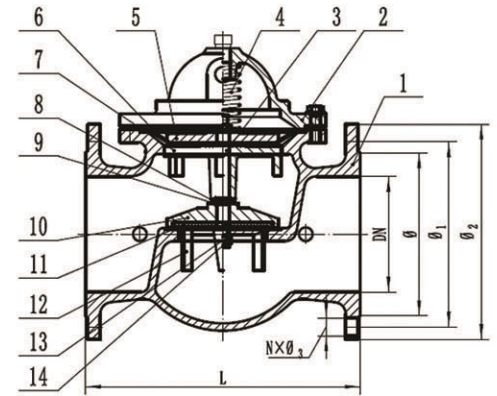
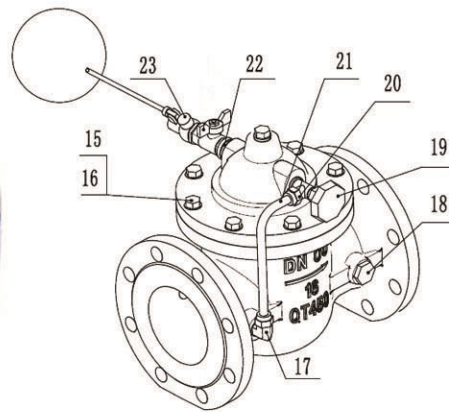
Dimensions

mm

Size	L	Outside diameter of flange ØD			Diameter of bolt circle ØK			H	N-Ød		
		PN10	PN16	PN25	PN10	PN16	PN25		PN10	PN16	PN25
2"	215	165	165	165	125	125	125	225	4-Ø19	4-Ø19	4-Ø19
2-1/2"	220	185	185	185	145	145	145	300	4-Ø19	4-Ø19	8-Ø19
3"	250	200	200	200	160	160	160	320	8-Ø19	8-Ø19	8-Ø19
4"	290	220	220	235	180	180	190	420	8-Ø19	8-Ø19	8-Ø19
5"	310	250	250	270	210	210	220	450	8-Ø23	8-Ø23	8-Ø23
6"	360	285	285	300	240	240	250	500	8-Ø23	12-Ø23	8-Ø23
8"	430	340	340	360	295	295	310	710	12-Ø23	12-Ø28	12-Ø23
10"	510	405	405	425	350	355	370	770	12-Ø23	12-Ø28	12-Ø23
12"	595	460	460	485	400	410	430	780	16-Ø23	16-Ø28	16-Ø23
14"	630	520	520	555	460	470	490	890	16-Ø23	16-Ø31	12-Ø23
16"	630	580	580	620	515	525	550	905	16-Ø28	16-Ø28	16-Ø28
18"	780	640	640	670	565	585	600	970	20-Ø28	20-Ø31	20-Ø28
22"	900	715	715	730	620	650	660	1000	20-Ø28	20-Ø34	20-Ø28
24"	1100	840	840	845	725	770	770	1060	20-Ø31	20-Ø37	20-Ø40

Ductile Iron Remote Control Ball Float Valve, PN16

Model : ICTV-BFT1-F3



Valve Specification :

The valve consists of the main valve and outside installed pilot valve. It uses the float in the water to link pilot valve upon the change of the water surface to make the main valve supply water or be closed, and thus to control the water level of the water pools (box) and the water tower within certain limits, to prevent overflow and excessive low water level. This valve is used in automatic water supply systems of various pools (box), water tower in industrial and mining enterprises, civil construction, and also used in atmospheric boiler circulation water supply system. The main valve opens fast and closed slowly, do not produce water hammer, sealed tight, no flood threat.

Test Requirements

Working Pressure	150 PSI (10 Bar)
Maximum Pressure	200 PSI (14 Bar)
Shell Test Pressure	300 PSI (21 Bar)
Applicable Temperature	< 80 °C

Materials :

No.	Parts	Material
1	Body	Ductile iron
2	Bonnet	Ductile iron
3	Stem	2Cr13
4	Spring	0Cr18Ni9
5	Plate	Cast iron
6	Diaphragm	Rubber
7	Pressure plate	Cast iron
8	Washer	Q235A
9	O-Ring	NBR
10	Disc	Cast iron
11	Rubber kasket	30%NR
12	Pressure plate	Cast iron
13	Washer	Q235A
14	Nut	Q235A
15	Washer	SS304
16	Bolt	SS304
17	Elbow	Brass
18	Brass needle valve	Brass
19	Nut	Brass
20	Brass tube	TP2
21	Joint	Brass
22	Brass ball valve	Brass
23	Plug	Brass

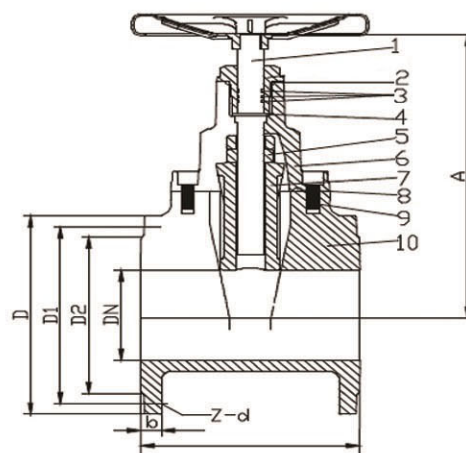
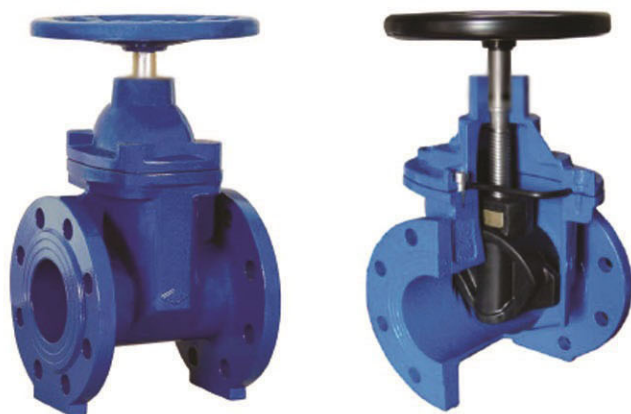
Dimensions

mm

Size	2"	2-1/2"	3"	4"	5"	6"	8"	10"
L	203	216	241	292	330	356	458	530
Ø	99	118	132	156	184	211	266	319
Ø1	125	145	160	180	210	240	295	355
Ø2	165	185	200	220	250	285	340	405
NXØ3	4X19	4X19	8X19	8X19	8X19	8X23	12X23	12X28

Ductile Iron Resilient Seat Gate Valve (NRS), PN16

Model : IRGA-NRS-F3



Specification Standards :

- Design standard : EN 1171; BS 5163
- Flange as standard : EN 1092-2
- Face to face dimensios : EN 558-1 Series 3
- Test standard : EN 12266

Features :

- Non rising stem
- Resilient seat
- Hand wheel operator

Materials :

No.	Parts	Material
1	Stem	2Cr13
2	"O" Ring	NBR
3	"O" Ring	NBR
4	Gasket	Nylon
5	Stem nut	Brass
6	Bonnet	GGG50
7	Wedge	GGG50+EPDM
8	Middle gasket	NBR
9	Bolts	Steel 8.8+Wax
10	Body	GGG50

Test Requirements

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

Application :

- For general and industrial services
- Applicable medium : water

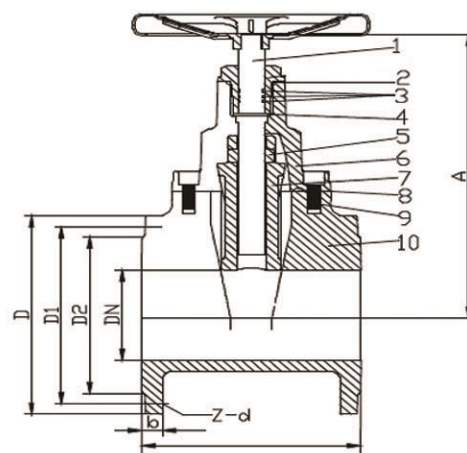
Dimensions

mm

Size	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
b	19	19	19	19	19	19	20	22	24.5	26.5	28	30	31.5	36
D	PN10 PN16	165 185	200 220	250 285	340 395	405 445	505 565	640 715	840 840	840 840	840 840	840 840	840 840	840
D1	PN10 PN16	125 145	160 180	210 240	295 350	400 460	515 580	640 715	840 840	840 840	840 840	840 840	840 840	840
D2		99	118	132	156	184	211	266	319	370	429	480	548	609
DN		50	65	80	100	125	150	200	250	300	350	400	450	500
L		178	190	203	229	254	267	292	330	356	381	406	432	508
Z-b	PN10 PN16	4-Ø19 4-Ø19	4-Ø19 4-Ø19	8-Ø19 8-Ø19	8-Ø19 8-Ø19	8-Ø23 8-Ø23	8-Ø23 8-Ø23	12-Ø23 12-Ø23	12-Ø23 12-Ø23	16-Ø23 16-Ø23	16-Ø26 16-Ø26	20-Ø28 20-Ø28	20-Ø28 20-Ø28	20-Ø31 20-Ø31

Ductile Iron Resilient Seat Gate Valve (NRS), PN16

Model : IRGA-NRS-F3



Specification Standards :

- Design standard : EN 1171; BS 5163
- Flange as standard : EN 1092-2
- Face to face dimensios : EN 558-1 Series 3
- Test standard : EN 12266

Features :

- Non rising stem
- Resilient seat
- Hand wheel operator

Materials :

No.	Parts	Material
1	Stem	2Cr13
2	"O" Ring	NBR
3	"O" Ring	NBR
4	Gasket	Nylon
5	Stem nut	Brass
6	Bonnet	GGG50
7	Wedge	GGG50+EPDM
8	Middle gasket	NBR
9	Bolts	Steel 8.8+Wax
10	Body	GGG50

Test Requirements

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

Application :

- For general and industrial services
- Applicable medium : water

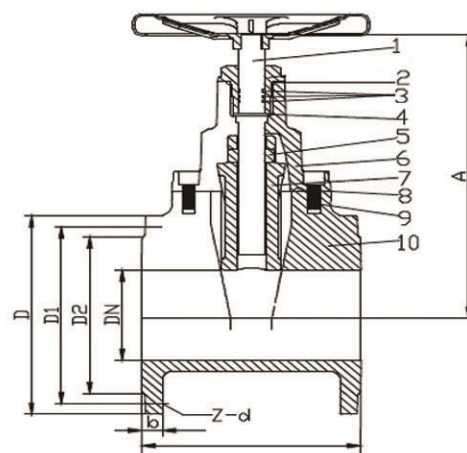
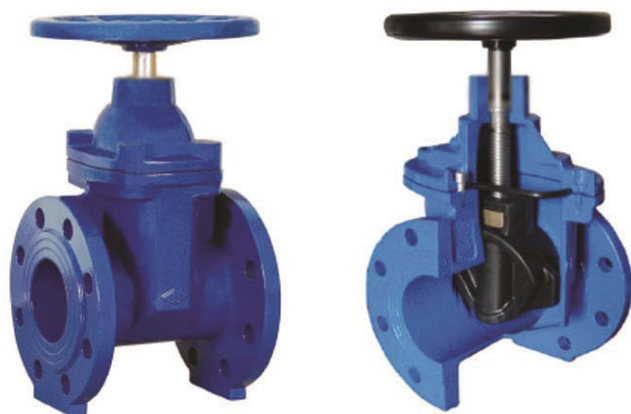
Dimensions

mm

Size	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
b	19	19	19	19	19	19	20	22	24.5	26.5	28	30	31.5	36
D	PN10 PN16	165 185	200 220	250 285	340 395	405 445	505 565	640 715	840 840	840 840	840 840	840 840	840 840	840
D1	PN10 PN16	125 145	160 180	210 240	295 350	400 460	515 580	640 715	840 840	840 840	840 840	840 840	840 840	840
D2		99	118	132	156	184	211	266	319	370	429	480	548	609
DN		50	65	80	100	125	150	200	250	300	350	400	450	500
L		178	190	203	229	254	267	292	330	356	381	406	432	508
Z-b	PN10 PN16	4-Ø19 4-Ø19	4-Ø19 4-Ø19	8-Ø19 8-Ø19	8-Ø19 8-Ø19	8-Ø23 8-Ø23	8-Ø23 8-Ø23	12-Ø23 12-Ø23	12-Ø23 12-Ø23	16-Ø23 16-Ø23	16-Ø26 16-Ø26	20-Ø28 20-Ø28	20-Ø28 20-Ø28	20-Ø31 20-Ø31

Ductile Iron Resilient Gate Valve (NRS), PN 16

Model : IRGA-NRS-F3



Specification Standards :

- Design standard : EN 1171 (DIN 3352 F4)
- Flange as standard : EN 1092-2
- Face to face dimensios : EN 558-1 Series 14
- Test standard : EN 12266

Features :

- Non rising stem
- Resilient seat
- Hand wheel operator

Materials :

No.	Parts	Material
1	Stem	2Cr13
2	"O" Ring	NBR
3	"O" Ring	NBR
4	Gasket	Nylon
5	Stem nut	Brass
6	Bonnet	GGG50
7	Wedge	GGG50+EPDM
8	Middle gasket	NBR
9	Bolts	Steel 8.8+Wax
10	Body	GGG50

Test Requirements

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

Application :

- For general and industrial services
- Applicable medium : water

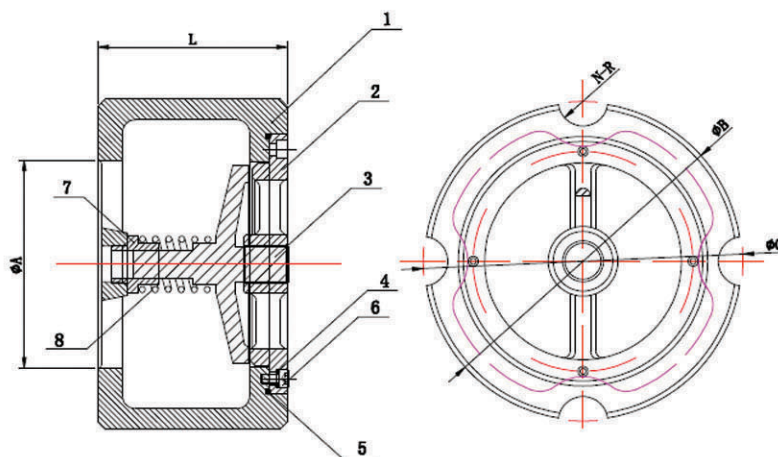
Dimensions

mm

Size		2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
A		260	270	310	340	405	460	570	660	770
b		19	19	19	19	19	20	22	24.5	24.5
D	1.0MPa	165	185	200	220	250	285	340	395	445
	1.6MPa								405	460
D1	1.0MPa	125	145	160	180	210	240	295	350	400
	1.6MPa								355	410
D2	1.0MPa	99	118	132	156	184	211	266	319	370
	1.6MPa									
DN		50	65	80	100	125	150	200	250	300
L		150	170	180	190	200	210	230	250	270
Z-b	1.0MPa	4-19	4-19	8-19	8-19	8-19	8-23	8-23	12-23	12-23
	1.6MPa							12-23	12-28	12-28

Cast Iron Wafer Silent Check Valve, Universal, PN16

Model : ISI-FU04



Specification Standards :

- Valve design according to : EN 12334, ASME B16. 42
- Flange according to EN1092-2
- Face to face : not standardlized, according to the request of client's
- Valve inspection and testing according to EN12516, EN12266

Features :

- Flanged end connection
- Stainless steel sleeve
- Synthetic seating ring
- Full port area
- Silent operation - short linear stroke

Test Requirements

Working Pressure	150 PSI (10 Bar)
Maximum Pressure	200 PSI (14 Bar)
Shell Test Pressure	300 PSI (21 Bar)
Applicable Temperature	< 80 °C

Materials :

No.	Parts	Material
1	Body	GG25 / QT400
2	Guide	304 / 316
3	Disc	304 / 316
4	Rubber ring	NBR EPDM
5	Seat	NBR EPDM
6	Bolt	Stainless steel
7	Axle sleeve	Stainless steel
8	Spring	Stainless steel

Application :

- For general and industrial services
- Applicable medium : water

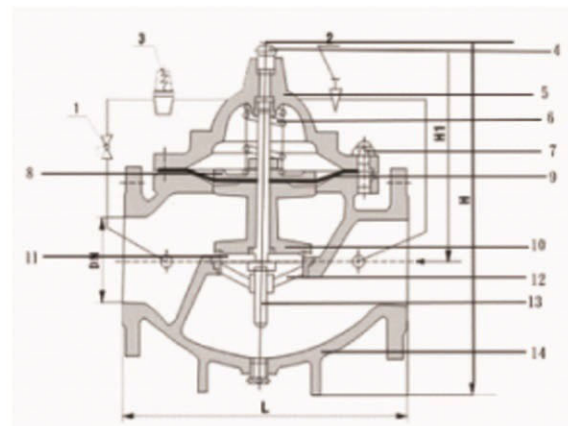
Dimensions

mm

Size	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
L	67	73	79	102	117	140	165	210	286
ØA	59	80	84	112	130	164	216	250	300
ØB	108	127	146	174	213	248	340	406	482
ØC	120	140	148	180	210	243	298	357	408
n - R	4-R10	4-R10	4-R10	4-R10	8-R11.5	8-R12.5	8-R12.5	12-R15	12-R15
FLANGE	67	120	140	170	200	230	301	370	370

Ductile Iron Pressure Safety Relief Valve, PN16

Model : ICTV-SRV5-F3



Features :

- ARITA Pressure Relief Valve consists of the main valve and outside installed control pilot valve, mainly installed in the bypass of the protected water supply system in the building, guarantee the pressure of the main valve upstream water supply zone, when the pressure in the water supply pipe exceeds the pressure set by the pressure releasing valve, the pressure releasing valve is switched on to prevent pipeline and equipment from damage by pressure exceeding. This valve is mainly used in pressure releasing of the fire test circulation system in high-rise buildings, is the upgrade replacement product of the spring safety valve.
- Simple, reliable and easy to mount and maintain
- Reasonable use of the hydraulic principle to control
- Valve clack quick opening and slow closure, No water hammer impacting.
- Stable operation, no noise

Materials :

No.	Parts	Material
1	Ball valve	Brass
2	Ball valve	Brass
3	Needle valve	Brass
4	Plug	Stainless steel
5	Bonnet	Ductile iron
6	Spring	Stainless steel
7	Nut	Stainless steel
8	Plate	Ductile iron
9	Diaphragm	Rubber
10	Trim	Ductile iron
11	Gasket	Rubber
12	Seat	Iron/Brass
13	Stem	Stainless steel
14	Body	Ductile iron

Dimensions

mm

Size	L	Outside diameter of flange ØD			Diameter of bolt circle ØK			H	N-Ød		
		PN10	PN16	PN25	PN10	PN16	PN25		PN10	PN16	PN25
2"	215	165	165	165	125	125	125	225	4-Ø19	4-Ø19	4-Ø19
2-1/2"	220	185	185	185	145	145	145	300	4-Ø19	4-Ø19	8-Ø19
3"	250	200	200	200	160	160	160	320	8-Ø19	8-Ø19	8-Ø19
4"	290	220	220	235	180	180	190	420	8-Ø19	8-Ø19	8-Ø19
5"	310	250	250	270	210	210	220	450	8-Ø23	8-Ø23	8-Ø23
6"	360	285	285	300	240	240	250	500	8-Ø23	12-Ø23	8-Ø23
8"	430	340	340	360	295	295	310	710	12-Ø23	12-Ø28	12-Ø23
10"	510	405	405	425	350	355	370	770	12-Ø23	12-Ø28	12-Ø23
12"	595	460	460	485	400	410	430	780	16-Ø23	16-Ø28	16-Ø23
14"	630	520	520	555	460	470	490	890	16-Ø23	16-Ø31	12-Ø23
16"	630	580	580	620	515	525	550	905	16-Ø28	16-Ø28	16-Ø28
18"	780	640	640	670	565	585	600	970	20-Ø28	20-Ø31	20-Ø28
22"	900	715	715	730	620	650	660	1000	20-Ø28	20-Ø34	20-Ø28
24"	1100	840	840	845	725	770	770	1060	20-Ø31	20-Ø37	20-Ø40