

Ductile Iron Valves



TOYO VALVE CO., LTD., CHINO PLANT, JAPAN

ISO 9001 & ISO 14001 authorized



We, as an integrated valve manufacturer with more than 80-years' history and tradition, have remodeled our Chino plant to the commitment to the environment by unifying the Suwa plant into the Chino plant, our latest mother production base for bronze, brass, cast iron, ductile iron, stainless steel, cast & forged steel valves. We remain committed to deliver high quality products and service that all customers are willing to accept.

Notes

- 1) Refer to individual specification sheet or the drawing for details of a product.
- 2) Main units on this catalog are shown in SI unit (MPa, °C, millimeter), and weight (W) is shown in Kg.
- 3) Refer to the attached P-T ratings about applicable pressure and temperature.
- 4) Ductile and malleable iron strainers have the perforated metal screen. (Estimated to 14-16 meshes)
- 5) ® Dupont's tradename

Products guarantee

Term of a guarantee: Within one year after the date of delivery from our factory to the original customer.

Contents of a guarantee: If the installations and the service conditions (such as pressure, temperature, fluid, etc.) are proper, necessary replacement and repair of our product will be carried out without charge.

Guarantee exceptions: Please keep in mind that the above articles of guarantee will not apply to the case owing to the following reasons:

- 1) Non-compliance of the customer with the technical instructions furnished by our catalog and specification sheet
- 2) Natural disaster incidents, such as a fire, flood damage, an earthquake, and falling stone
- 3) Reconstruction or repair by any third party other than Toyo Valve Co., Ltd.
- 4) Deterioration (such as shot rust, degradation, chemical changes, etc.)
- 5) Any other matter resulting from the damage not being regarded as manufacturer's responsibility

In addition, you will be required necessary charge for repair or exchange of parts on failure or damage by the guarantee exceptions. Please contact our sales staff or agency for details.

The specification and the performance term of our product indicated in this catalog are based on the internationally governed standards and specifications, our products experience or the design calculation and our in-house examination.

When using the product beyond the service conditions mentioned in this catalog, users are requested to consult Toyo Valve for further advice in advance, or to conduct the verification or evaluation for the performance under users' responsibility. We shall not be liable for any damages resulting from lack of aforementioned procedures by the customer.

Items mentioned in this catalog are subject to change without prior notice to the customers.

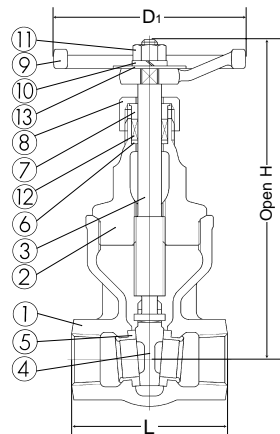
Gate Valves

10K Ductile Iron Gate Valve

Fig 602A



JV4-2



120	water, non-shock	1.37MPa
220	oil, air, steam, gas	1.18MPa
300	oil, air, steam	0.98MPa

Test pressure	(MPa)	
	Shell(Water)	Seat(Air)
	2.1	0.6

Size	(mm)			
	L	H	D ₁	W(kg)
15mm (1/2")	60	145	70	0.9
20 (3/4)	70	165	70	1.2
25 (1)	75	195	90	1.6
32 (1 1/4)	85	245	120	2.6
40 (1 1/2)	95	275	120	3.3
50 (2)	105	320	140	4.7

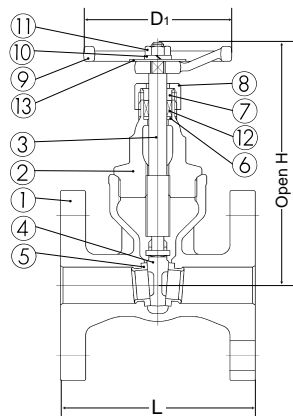
No.	Parts	Materials
1	BODY	FCD-S
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	DISC	SCS 1
5	BODY SEAT RING	SUS 403
6	PACKING WASHER	SPCC
7	GLAND	SUS 403
8	PACKING NUT	FCMB-S35
9	HAND WHEEL	FCMB270
10	SPRING WASHER	SWRH57
11	WHEEL NUT	SS400
12	GLAND PACKING	T#2200
13	NAME PLATE	A1050P

10K Ductile Iron Gate Valve

Fig 612A



JV4-2



120	water, non-shock	1.37MPa
220	oil, air, steam, gas	1.18MPa
300	oil, air, steam	0.98MPa

Test pressure	(MPa)	
	Shell(Water)	Seat(Air)
	2.1	0.6

Size	(mm)			
	L	H	D ₁	W(kg)
15mm (1/2")	90	145	80	2.0
20 (3/4)	100	145	80	2.3
25 (1)	110	165	80	3.3
32 (1 1/4)	120	197	90	4.8
40 (1 1/2)	130	245	120	5.8
50 (2)	140	275	120	7.4

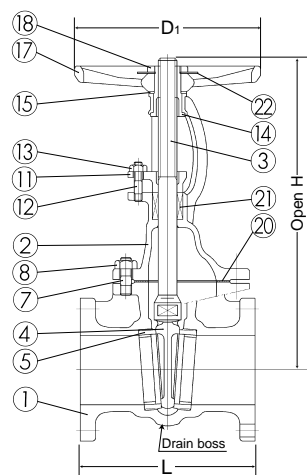
No.	Parts	Materials
1	BODY	FCD-S
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	DISC	SCS 1
5	BODY SEAT RING	SUS 403
6	PACKING WASHER	SPCC
7	GLAND	SUS 403
8	PACKING NUT	FCMB-S35
9	HAND WHEEL	FCMB270
10	SPRING WASHER	SWRH57
11	WHEEL NUT	SS400
12	GLAND PACKING	T#2200
13	NAME PLATE	A1050P

10K Ductile Iron Gate Valve

Fig 613A



JV4-5



sizes 50 to 200

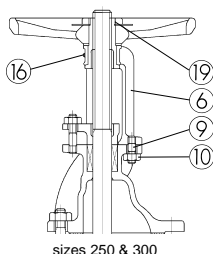
120	water, non-shock	1.37MPa
220	oil, air, steam, gas	1.18MPa
300	oil, air, steam	0.98MPa

Test pressure	(MPa)	
	Shell(Water)	Seat(Water)
	2.1	1.6

Size	(mm)			
	L	H	D ₁	W(kg)
50mm (2")	178	360	180	13
65 (2 1/2)	190	425	180	17
80 (3)	203	480	224	22
100 (4)	229	580	250	31
125 (5)	254	675	300	46
150 (6)	267	780	300	61
200 (8)	292	985	315	104
250 (10)	330	1195	450	165
300 (12)	356	1410	560	236

No.	Parts	Materials
1	BODY	FCD-S
2	BONNET	FCD-S
3	STEM	SUS 403
4	DISC	SUS 403/ S28C+Cr13(sizes 250 & 300)
5	BODY SEAT RING	SUS 403
6	YOKE	FCD-S
7	BONNET BOLT	S35C
8	BONNET BOLT NUT	S45C
9	YOKE BOLT	SS400
10	YOKE BOLT NUT	SS400
11	GLAND FLANGE	FCMB-S35
12	GLAND BOLT	SS400
13	GLAND BOLT NUT	SS400
14	YOKE SLEEVE	C6782B
15	WASHER	C2600P
16	GREASE NIPPLE	C3604B
17	HAND WHEEL	FCD450
18	WHEEL NUT	FCMB-S35
19	SET SCREW	S17C
20	GASKET	T#1100
21	GLAND PACKING	T#2230
22	NAME PLATE	A1050P

●Drain boss is provided in sizes 100 & larger.



sizes 250 & 300

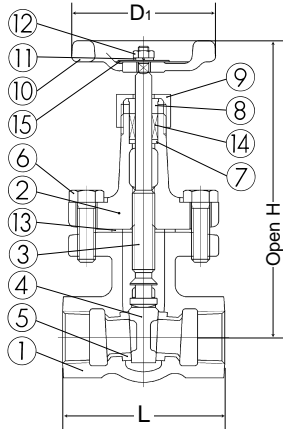
Gate Valves

16K Ductile Iron Gate Valve

Fig 622A



JV4-4



120	water, non-shock	2.16MPa
220	oil, air, steam, gas	1.96MPa
300	oil, air, steam	1.77MPa
350	oil, air, steam	1.57MPa

Test pressure	Shell(Water)	3.3
	Seat(Water)	2.4

	(mm)			
Size	L	H	D ₁	W(kg)
15mm (1/2")	65	165	80	1.6
20 (3/4)	75	170	80	1.7
25 (1)	80	190	80	2.9
32 (1 1/4)	90	224	100	3.1
40 (1 1/2)	100	258	120	4.1
50 (2)	110	295	140	5.7

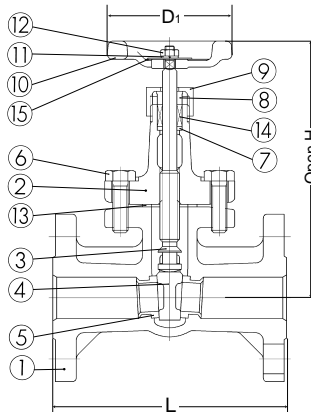
No.	Parts	Materials
1	BODY	FCD-S
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	DISC	SCS 1
5	BODY SEAT RING	SUS 403
6	BONNET BOLT	S45C
7	PACKING WASHER	SPCC
8	GLAND	SUS 403
9	PACKING NUT	FCMB-S35
10	HAND WHEEL	FCMB270
11	SPRING WASHER	SWRH57
12	WHEEL NUT	SS400
13	GASKET	T#1215
14	GLAND PACKING	T#2230
15	NAME PLATE	A1050P

16K Ductile Iron Gate Valve

Fig 632A



JV4-4



120	water, non-shock	2.16MPa
220	oil, air, steam, gas	1.96MPa
300	oil, air, steam	1.77MPa
350	oil, air, steam	1.57MPa

Test pressure	Shell(Water)	3.3
	Seat(Water)	2.4

	(mm)			
Size	L	H	D ₁	W(kg)
15mm (1/2")	108	165	80	2.5
20 (3/4)	117	170	80	2.9
25 (1)	127	190	80	4.2
32 (1 1/4)	140	224	100	6.2
40 (1 1/2)	165	258	120	7.7
50 (2)	178	295	140	9.6

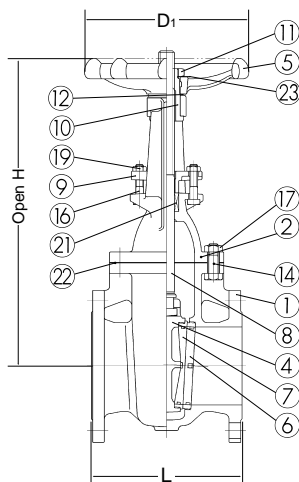
No.	Parts	Materials
1	BODY	FCD-S
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	DISC	SCS 1
5	BODY SEAT RING	SUS 403
6	BONNET BOLT	S45C
7	PACKING WASHER	SPCC
8	GLAND	SUS 403
9	PACKING NUT	FCMB-S35
10	HAND WHEEL	FCMB270
11	SPRING WASHER	SWRH57
12	WHEEL NUT	SS400
13	GASKET	T#1215
14	GLAND PACKING	T#2230
15	NAME PLATE	A1050P

16K Ductile Iron Gate Valve

Fig 633



JV4-5



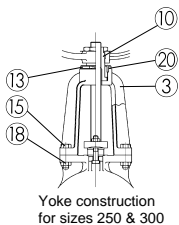
120	water, non-shock	2.16MPa
220	oil, air, steam, gas	1.96MPa
300	oil, air, steam	1.77MPa
350	oil, air, steam	1.57MPa

Test pressure	Shell(Water)	3.3
	Seat(Water)	2.4

	(mm)			
Size	L	H	D ₁	W(kg)
50mm (2")	178	357	180	15.8
65 (2 1/2)	190	412	180	20.1
80 (3)	203	482	200	30.5
100 (4)	229	569	280	46.8
125 (5)	254	672	280	64.0
150 (6)	267	783	315	85.5
200 (8)	292	985	355	133.0
250 (10)	330	1196	400	211.0
300 (12)	356	1390	500	300.0

No.	Parts	Materials
1	BODY	FCD-S
2	BONNET	FCD-S
3	YOKE	FCD 400
4	DISC	SUS 403(sizes 50 to 100)/ FCD-S(sizes 125 to 300)
5	HAND WHEEL	FCD 450
6	BODY SEAT RING	SUS 403
7	DISC SEAT RING	SUS 403(sizes 125 to 300)
8	STEM	SUS 403
9	GLAND FLANGE	FCD 450
10	YOKE SLEEVE	CAC 406
11	WHEEL NUT	SS400
12	WASHER	C2600P
13	SLEEVE NUT	FCD 400
14	BONNET BOLT	S45C
15	YOKE BONNET BOLT	S45C
16	SQUARE BOLT	SS400
17	BONNET BOLT NUT	S45C
18	YOKE BONNET BOLT NUT	S45C
19	SQUARE BOLT NUT	SS400
20	KNOCK PIN	SS400
21	GLAND PACKING	T#2230
22	GASKET	V#VF-35E
23	NAME PLATE	A1100P-H

Note:
1. Integral yoke with bonnet in sizes 200 & smaller.
Two pieces yoke and bonnet in sizes 250 & larger.
2. Drain boss is provided in sizes 100 & larger.



Yoke construction for sizes 250 & 300

● Drain boss is provided in sizes 100 & larger.

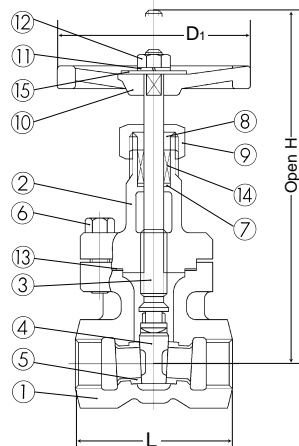
Gate Valves

20K Malleable Iron Gate Valve

Fig 642A



JV4-4



120	water, non-shock	2.74MPa
220	oil, air, steam	2.45MPa
220	gas	2.35MPa
300	oil, air, steam	2.25MPa
350	oil, air, steam	1.96MPa

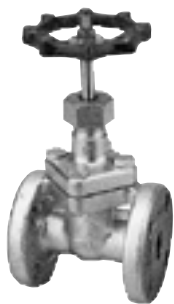
Test pressure	Shell(Water)	4.1
	Seat(Water/Air)	3.0/0.6

Size	L	H	D ₁	W(kg)
15mm (1/2")	70	172	80	1.9
20 (3/4)	80	184	100	2.1
25 (1)	90	213	120	2.9
32 (1 1/4)	100	232	120	3.8
40 (1 1/2)	110	264	140	5.1
50 (2)	120	298	140	7.1

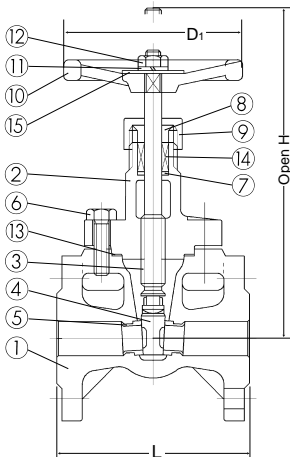
No.	Parts	Materials
1	BODY	FCMB-S35
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	DISC	SCS 1
5	BODY SEAT RING	SUS 403
6	BONNET BOLT	S45C
7	PACKING WASHER	SPCC
8	GLAND	SUS 403
9	PACKING NUT	FCMB-S35
10	HAND WHEEL	FCMB340
11	SPRING WASHER	SWRH57
12	HANDLE NUT	SS400
13	GASKET	T#1100
14	GLAND PACKING	T#2230
15	NAME PLATE	A1050P

20K Malleable Iron Gate Valve

Fig 652A



JV4-4



120	water, non-shock	2.74MPa
220	oil, air, steam	2.45MPa
220	gas	2.35MPa
300	oil, air, steam	2.25MPa
350	oil, air, steam	1.96MPa

Test pressure	Shell(Water)	4.1
	Seat(Water/Air)	3.0/0.6

Size	L	H	D ₁	W(kg)
15mm (1/2")	108	172	80	3.3
20 (3/4)	117	184	100	4.7
25 (1)	127	213	120	5.6
32 (1 1/4)	140	232	120	7.2
40 (1 1/2)	165	264	140	9.0
50 (2)	178	298	140	11.3

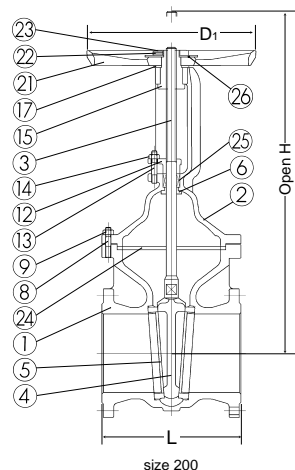
No.	Parts	Materials
1	BODY	FCMB-S35
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	DISC	SCS 1
5	BODY SEAT RING	SUS 403
6	BONNET BOLT	S45C
7	PACKING WASHER	SPCC
8	GLAND	SUS 403
9	PACKING NUT	FCMB-S35
10	HAND WHEEL	FCMB340
11	SPRING WASHER	SWRH57
12	WHEEL NUT	SS400
13	GASKET	T#1100
14	GLAND PACKING	T#2230
15	NAME PLATE	A1050P

20K Malleable Iron Gate Valve

Fig 653A



JV4-5



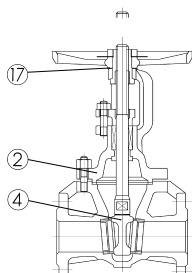
size 200

120	water, non-shock	2.74MPa
220	oil, air, steam	2.45MPa
220	gas	2.35MPa
300	oil, air, steam	2.25MPa
350	oil, air, steam	1.96MPa

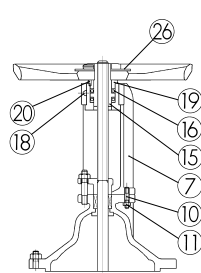
Test pressure	Shell(Water)	4.1
	Seat(Water)	3.0

Size	L	H	D ₁	W(kg)
50mm (2")	216	383	180	17
65 (2 1/2)	241	442	180	23
80 (3)	283	502	224	31
100 (4)	305	591	250	46
125 (5)	381	698	300	72
150 (6)	403	819	315	102
200 (8)	419	1026	450	146
250 (10)	457	1238	560	247
300 (12)	502	1440	630	367

No.	Parts	Materials
1	BODY	FCMB-S35
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	DISC	SCS1/SUS 403(sizes 50 to 200) SCPH2+CR13(sizes 250 & 300)
5	BODY SEAT RING	SUS 403
6	LOCK NUT	SUS 403
7	YOKE	FCMB-S35(sizes 250 & 300)
8	BONNET BOLT	S35C
9	BONNET BOLT NUT	S45C
10	YOKE BOLT	SS400(sizes 250 & 300)
11	YOKE BOLT NUT	SS400(sizes 250 & 300)
12	GLAND FLANGE	FCMB-S35
13	GLAND BOLT	SS400
14	GLAND BOLT NUT	SS400
15	YOKE SLEEVE	C6782B
16	BEARING	- (sizes 250 & 300)
17	WASHER	C2600P(sizes 50 to 200)
18	GREASE NIPPLE	C3604B(sizes 250 & 300)
19	SLEEVE NUT	SUS 403(sizes 250 & 300)
20	SET SCREW	SUS 403(sizes 250 & 300)
21	HAND WHEEL	FCD 450
22	WHEEL NUT	FCMB-S35/SS400
23	SET SCREW	S17C(sizes 200 & 300)
24	GASKET	T#1100
25	GLAND PACKING	T#2230
26	NAME PLATE	A1050P



sizes 50 to 150



sizes 250 & 300

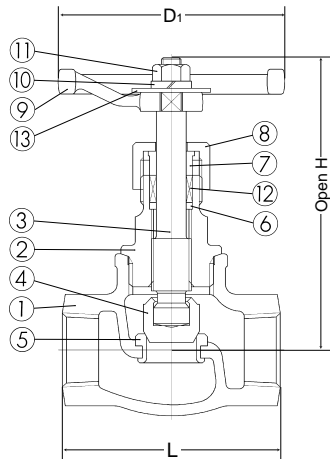
Globe Valves

10K Ductile Iron Globe Valve

Fig 600A



JV4-2



120	water, non-shock	1.37MPa
220	oil, air, steam, gas	1.18MPa
300	oil, air, steam	0.98MPa

Test pressure	(MPa)	
	Shell(Water)	Seat(Air)
	2.1	0.6

Size	(mm)			
	L	H	D ₁	W(kg)
10mm (3/8")	55	84	70	0.4
15 (1/2)	65	87	70	0.5
20 (3/4)	80	100	80	0.8
25 (1)	90	123	90	1.1
32 (1 1/4)	105	140	100	1.8
40 (1 1/2)	120	154	120	2.4
50 (2)	140	180	140	3.5

●Toyo Standard for size 10

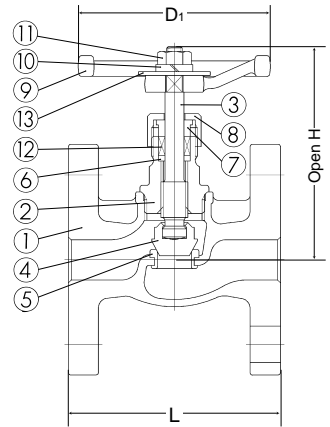
No.	Parts	Materials
1	BODY	FCD-S
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	DISC	SUS 403
5	BODY SEAT RING	SUS 403
6	PACKING WASHER	SPCC
7	GLAND	SUS 403
8	PACKING NUT	FCMB-S35
9	HAND WHEEL	FCMB270
10	SPRING WASHER	SWRH57
11	WHEEL NUT	SS400
12	GLAND PACKING	T#2200
13	NAME PLATE	A1050P

10K Ductile Iron Globe Valve

Fig 610A



JV4-4



120	water, non-shock	1.37MPa
220	oil, air, steam, gas	1.18MPa
300	oil, air, steam	0.98MPa

Test pressure	(MPa)	
	Shell(Water)	Seat(Air)
	2.1	0.6

Size	(mm)			
	L	H	D ₁	W(kg)
15mm (1/2")	85	88	70	1.7
20 (3/4)	95	100	80	2.3
25 (1)	110	125	90	3.5
32 (1 1/4)	130	142	100	4.9
40 (1 1/2)	150	156	120	6.1
50 (2)	180	179	140	7.7

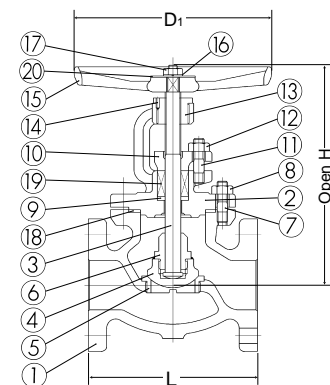
No.	Parts	Materials
1	BODY	FCD-S
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	DISC	SUS 403
5	BODY SEAT RING	SUS 403
6	PACKING WASHER	SPCC
7	GLAND	SUS 403
8	PACKING NUT	FCMB-S35
9	HAND WHEEL	FCMB270
10	SPRING WASHER	SWRH57
11	WHEEL NUT	SS400
12	GLAND PACKING	T#2200
13	NAME PLATE	A1050P

10K Ductile Iron Globe Valve

Fig 611A



JV4-5



120	water, non-shock	1.37MPa
220	oil, air, steam, gas	1.18MPa
300	oil, air, steam	0.98MPa

Test pressure	(MPa)	
	Shell(Water)	Seat(Water)
	2.1	1.6

Size	(mm)			
	L	H	D ₁	W(kg)
50mm (2")	203	295	224	15
65 (2 1/2)	216	325	224	19
80 (3)	241	355	250	26
100 (4)	292	390	300	36
125 (5)	356	435	315	51
150 (6)	406	505	355	78
200 (8)	495	595	400	126

No.	Parts	Materials
1	BODY	FCD-S
2	BONNET	FCD-S
3	STEM	SUS 403
4	DISC	SUS 403(sizes 50 to 100) S28C+Cr13(sizes 125 to 200)
5	BODY SEAT RING	SUS 403(sizes 50 to 150) S28C+STL(size 200)
6	LOCK NUT	SUS 403
7	BONNET BOLT	S35C
8	BONNET BOLT NUT	S45C
9	PACKING WASHER	SUS 403
10	GLAND FLANGE	FCMB35
11	GLAND BOLT	SS400
12	GLAND BOLT NUT	SS400
13	YOKE BUSH	C6782B
14	KNOCK PIN	C2600W
15	HAND WHEEL	FCD450
16	SPRING WASHER	SWRH57
17	WHEEL NUT	SS400
18	GASKET	T#1100
19	GLAND PACKING	T#2200
20	NAME PLATE	A1050P

●Drain boss is provided in sizes 100 & larger.

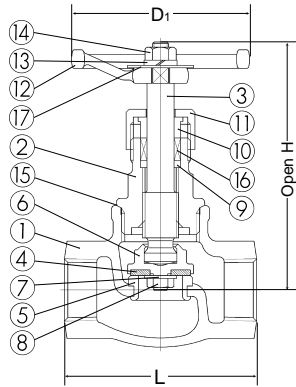
Globe Valves

10K Ductile Iron Globe Valve with PTFE® seat

Fig 600AT



JV4-2



120	water, non-shock	1.37MPa
183	oil, air, steam, gas	1.18MPa
220	oil, air, steam	0.98MPa

			(MPa)
Test pressure	Shell(Water)		2.1
	Seat(Air)		0.6

					(mm)
Size	L	H	D ₁	W(kg)	
10mm (3/8")	55	85	70	0.4	
15 (1/2)	65	87	70	0.5	
20 (3/4)	80	99	70	0.8	
25 (1)	90	115	80	1.1	
32 (1 1/4)	105	135	90	1.8	
40 (1 1/2)	120	150	100	2.4	
50 (2)	140	172	120	3.5	

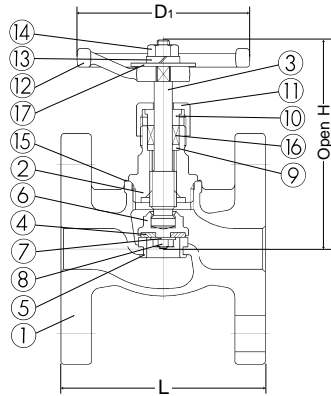
No.	Parts	Materials
1	BODY	FCD-S
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	SOFT SEAT	Reinforced PTFE®
5	BODY SEAT RING	SUS 403
6	DISC HOLDER	SUS 403
7	SEAT HOLDER	SPCC
8	DISC NUT	SS400
9	PACKING WASHER	SPCC
10	GLAND	SUS 403
11	PACKING NUT	FCMB-S35
12	HAND WHEEL	FCMB270
13	SPRING WASHER	SWRH57
14	WHEEL NUT	SS400
15	GASKET	C1100P(sizes 40 & 50)
16	GLAND PACKING	T#2200
17	NAME PLATE	A1050P

10K Ductile Iron Globe Valve with PTFE® seat

Fig 610AT



JV4-2



120	water, non-shock	1.37MPa
183	oil, air, steam, gas	1.18MPa
220	oil, air, steam	0.98MPa

			(MPa)
Test pressure	Shell(Water)		2.1
	Seat(Air)		0.6

					(mm)
Size	L	H	D ₁	W(kg)	
15mm (1/2")	85	87	70	1.7	
20 (3/4)	95	99	70	2.2	
25 (1)	110	115	80	3.6	
32 (1 1/4)	130	136	90	4.7	
40 (1 1/2)	150	150	100	6.1	
50 (2)	180	173	120	7.7	

No.	Parts	Materials
1	BODY	FCD-S
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	SOFT SEAT	Reinforced PTFE®
5	BODY SEAT RING	SUS 403
6	DISC HOLDER	SUS 403
7	SEAT HOLDER	SPCC
8	DISC NUT	SS400
9	PACKING WASHER	SPCC
10	GLAND	SUS 403
11	PACKING NUT	FCMB-S35
12	HAND WHEEL	FCMB270
13	SPRING WASHER	SWRH57
14	WHEEL NUT	SS400
15	GASKET	C1100P(sizes 40 & 50)
16	GLAND PACKING	T#2200
17	NAME PLATE	A1050P

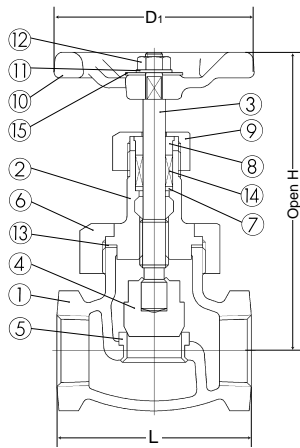
Globe Valves

16K Ductile Iron Globe Valve

Fig 620A



JV4-4



120	water, non-shock	2.16MPa
220	oil, air, steam, gas	1.96MPa
300	oil, air, steam	1.77MPa
350	oil, air, steam	1.57MPa

Test pressure	Shell(Water)	3.3
	Seat(Water)	2.4

Size	L	H	D ₁	W(kg)
15mm (1/2")	70	130	80	0.9
20 (3/4)	80	135	90	1.0
25 (1)	90	155	100	1.5
32 (1 1/4)	110	175	120	2.8
40 (1 1/2)	120	190	120	3.6
50 (2)	140	215	140	5.1

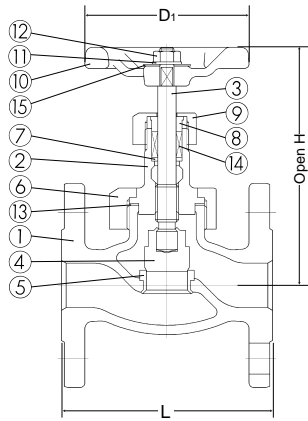
No.	Parts	Materials
1	BODY	FCD-S
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	DISC	SCS 403
5	BODY SEAT RING	SUS 403
6	UNION NUT	FCMB-S35
7	PACKING WASHER	SPCC
8	GLAND	SUS 403
9	PACKING NUT	FCMB-S35
10	HAND WHEEL	FCMB270
11	SPRING WASHER	SWRH57
12	WHEEL NUT	SS400
13	GASKET	T#1215
14	GLAND PACKING	T#2230
15	NAME PLATE	A1050P

16K Ductile Iron Globe Valve

Fig 630A



JV4-4



120	water, non-shock	2.16MPa
220	oil, air, steam, gas	1.96MPa
300	oil, air, steam	1.77MPa
350	oil, air, steam	1.57MPa

Test pressure	Shell(Water)	3.3
	Seat(Water)	2.4

Size	L	H	D ₁	W(kg)
15mm (1/2")	108	130	80	2.3
20 (3/4)	117	135	90	2.8
25 (1)	127	155	100	4.4
32 (1 1/4)	140	175	120	5.9
40 (1 1/2)	165	190	120	7.2
50 (2)	203	215	140	10.8

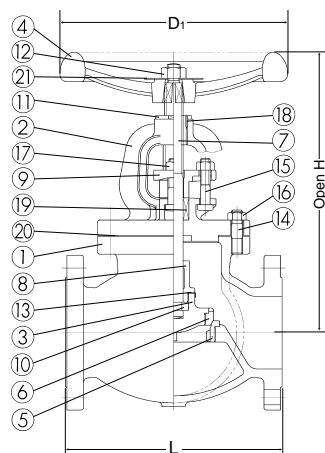
No.	Parts	Materials
1	BODY	FCD-S
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	DISC	SCS 403
5	BODY SEAT RING	SUS 403
6	UNION NUT	FCMB-S35
7	PACKING WASHER	SPCC
8	GLAND	SUS 403
9	PACKING NUT	FCMB-S35
10	HAND WHEEL	FCMB270
11	SPRING WASHER	SWRH57
12	WHEEL NUT	SS400
13	GASKET	T#1215
14	GLAND PACKING	T#2230
15	NAME PLATE	A1050P

16K Ductile Iron Globe Valve

Fig 631



JV4-5

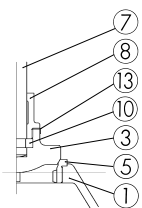


120	water, non-shock	2.16MPa
220	oil, air, steam, gas	1.96MPa
300	oil, air, steam	1.77MPa
350	oil, air, steam	1.57MPa

Test pressure	Shell(Water)	3.3
	Seat(Water)	2.4

Size	L	H	D ₁	W(kg)
50mm (2")	203	300	180	18.7
65 (2 1/2)	216	322	180	22.5
80 (3)	241	361	224	30.6
100 (4)	292	415	280	42.0
125 (5)	368	475	355	68.0
150 (6)	406	552	400	104.5
200 (8)	495	662	500	168.0

No.	Parts	Materials
1	BODY	FCD-S
2	BONNET	FCD-S
3	DISC	SUS 403(sizes 50 to 100) FCD-S(sizes 125 to 200)
4	HAND WHEEL	FCD 450
5	BODY SEAT RING	SUS 403
6	DISC SEAT RING	SUS 403(sizes 125 to 200)
7	STEM	SUS 403
8	LOCK NUT	SUS 403
9	GLAND FLANGE	SUS 304
10	STEM RING	SUS 403
11	YOKE BUSH	FCD 450
12	WHEEL NUT	CAC 406
13	LOCK WASHER	S45C
14	BONNET BOLT	SS400
15	GLAND BOLT	SS400
16	BONNET BOLT NUT	S45C
17	GLAND BOLT NUT	SS400
18	KNOCK PIN	A1100P-H
19	GLAND PACKING	SS400
20	GASKET	T#2230
21	NAME PLATE	V#VF-35E



Disc construction for sizes 100 & larger

- Note:
1. Integral disc with disc seat rings in sizes 100 & smaller.
 2. Drain boss is provided in sizes 100 & larger.

● Drain boss is provided in sizes 100 & larger.

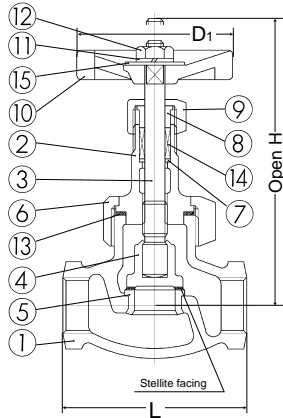
Globe Valves

20K Malleable Iron Globe Valve

Fig 640A



JV4-4



120	water, non-shock	2.74MPa
220	oil, air, steam	2.45MPa
220	gas	2.35MPa
300	oil, air, steam	2.25MPa
350	oil, air, steam	1.96MPa

Test pressure	Shell(Water)	4.1
	Seat(Water/Air)	3.0/0.6

Size	L	H	D ₁	W(kg)
10mm (3/8")	70	125	80	0.8
15 (1/2)	75	135	80	1.0
20 (3/4)	90	145	100	1.3
25 (1)	105	170	120	1.9
32 (1 1/4)	120	180	120	2.8
40 (1 1/2)	135	195	140	3.8
50 (2)	160	225	180	6.4

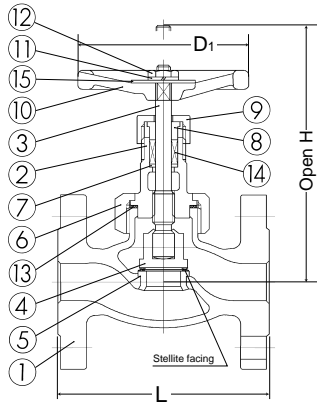
No.	Parts	Materials
1	BODY	FCMB-S35
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	DISC	SCS 403+STL
5	BODY SEAT RING	SUS 403+STL
6	UNION NUT	FCMB-S35
7	PACKING WASHER	SPCC
8	GLAND	SUS 403
9	PACKING NUT	FCMB-S35
10	HAND WHEEL	FCD450/FCMB340
11	SPRING WASHER	SWRH57
12	WHEEL NUT	SS400
13	GASKET	T#1100
14	GLAND PACKING	T#2230
15	NAME PLATE	A1050P

20K Malleable Iron Globe Valve

Fig 650A



JV4-4



120	water, non-shock	2.74MPa
220	oil, air, steam	2.45MPa
220	gas	2.35MPa
300	oil, air, steam	2.25MPa
350	oil, air, steam	1.96MPa

Test pressure	Shell(Water)	4.1
	Seat(Water/Air)	3.0/0.6

Size	L	H	D ₁	W(kg)
10mm (3/8")	100	125	80	2.0
15 (1/2)	110	135	80	2.5
20 (3/4)	120	145	100	3.3
25 (1)	130	170	120	4.8
32 (1 1/4)	160	180	120	6.4
40 (1 1/2)	180	195	140	7.8
50 (2)	230	225	180	11.3

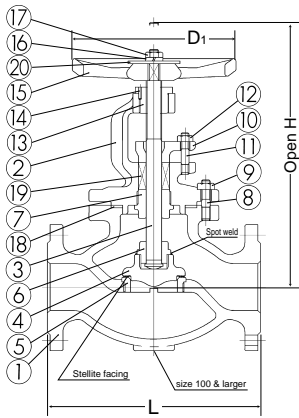
No.	Parts	Materials
1	BODY	FCMB-S35
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	DISC	SCS 403+STL
5	BODY SEAT RING	SUS 403+STL
6	UNION NUT	FCMB-S35
7	PACKING WASHER	SPCC
8	GLAND	SUS 403
9	PACKING NUT	FCMB-S35
10	HAND WHEEL	FCD450/FCMB340
11	SPRING WASHER	SWRH57
12	WHEEL NUT	SS400
13	GASKET	T#1100
14	GLAND PACKING	T#2230
15	NAME PLATE	A1050P

20K Malleable Iron Globe Valve

Fig 651A



JV4-5



120	water, non-shock	2.74MPa
220	oil, air, steam	2.45MPa
220	gas	2.35MPa
300	oil, air, steam	2.25MPa
350	oil, air, steam	1.96MPa

Test pressure	Shell(Water)	4.1
	Seat(Water)	3.0

Size	L	H	D ₁	W(kg)
50mm (2")	267	329	224	16.5
65 (2 1/2)	292	355	250	28.0
80 (3)	318	390	300	37.0
100 (4)	356	445	315	54.0
125 (5)	400	515	355	75.0
150 (6)	444	595	400	107.0
200 (8)	559	685	450	180.0
250 (10)	622	820	560	303.0

No.	Parts	Materials
1	BODY	FCMB-S35
2	BONNET	FCMB-S35
3	STEM	SUS 403
4	DISC	S28C+STL(sizes 50 to 200) S25C+STL(size 250)
5	BODY SEAT RING	S28C+STL
6	LOCK NUT	SUS 403
7	BONNET BUSH	SUS 403
8	BONNET BOLT	S35C
9	BONNET BOLT NUT	S45C
10	GLAND FLANGE	FCMB-S35
11	GLAND BOLT	SS400
12	GLAND BOLT NUT	SS400
13	YOKE BUSH	C6782B
14	KNOCK PIN	C2600W
15	HAND WHEEL	FCD 450
16	SPRING WASHER	SWRH57
17	WHEEL NUT	SS400
18	GASKET	T#1100
19	GLAND PACKING	T#2230
20	NAME PLATE	A1050P

Note:
Handwheel in sizes 200 & 250 is hammer-blow type.

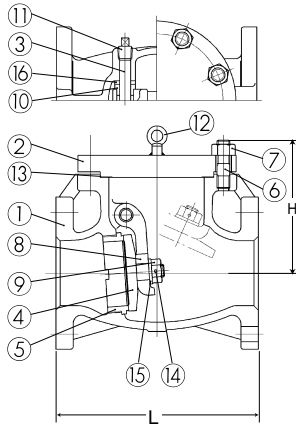
Check Valves

10K Ductile Iron Swing Check Valve

Fig 615A



JV4-5



120	water, non-shock	1.37MPa
220	oil, air, steam, gas	1.18MPa
300	oil, air, steam	0.98MPa

		(MPa)
Test pressure	Shell(Water)	2.1
	Seat(Water)	1.6-0.5

				(mm)
Size	L	H	W(kg)	
50mm (2")	203	126	12.7	
65 (2 1/2)	216	146	17.8	
80 (3)	241	161	24.1	
100 (4)	292	176	34.4	
125 (5)	330	250	51.2	
150 (6)	356	270	66.2	
200 (8)	495	330	121.0	

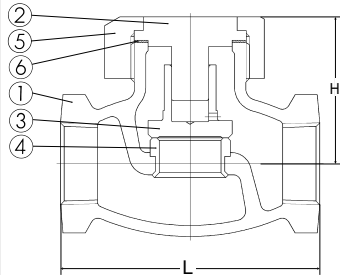
No.	Parts	Materials
1	BODY	FCD-S
2	COVER	SS400
3	HANGER PIN	SUS 403
4	DISC	SUS 403(sizes 50 to 100) S28C+Cr13(sizes 125 to 200)
5	BODY SEAT RING	SUS 403
6	COVER BOLT	S35C
7	COVER BOLT NUT	S45C
8	HANGER	S25C
9	DISC NUT	SUS 304
10	BUSH	SUS 403
11	PLUG	S25C
12	EYE BOLT	S20C(sizes 125 to 200)
13	GASKET	T#1100
14	SPLIT PIN	SUS 304
15	WASHER	SUS 304
16	WASHER	SUS 403(sizes 50 to 80)

16K Ductile Iron Lift Check Valve

Fig 624A



JV4-4



120	water, non-shock	2.16MPa
220	oil, air, steam, gas	1.96MPa
300	oil, air, steam	1.77MPa
350	oil, air, steam	1.57MPa

		(MPa)
Test pressure	Shell(Water)	3.3
	Seat(Water)	2.4-0.8

				(mm)
Size	L	H	W(kg)	
15mm (1/2")	70	51	0.6	
20 (3/4)	80	54	0.7	
25 (1)	90	61	1.1	
32 (1 1/4)	110	69	2.3	
40 (1 1/2)	120	77	2.9	
50 (2)	140	89	3.9	

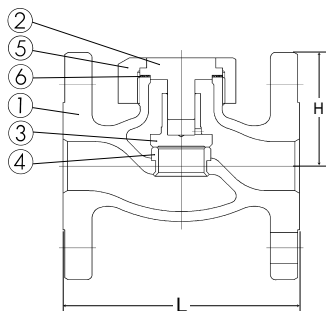
No.	Parts	Materials
1	BODY	FCD-S
2	COVER	SUS 403
3	DISC	SUS 403
4	BODY SEAT RING	SUS 403
5	UNION NUT	FCMB-S35
6	GASKET	T#1215

16K Ductile Iron Lift Check Valve

Fig 634A



JV4-4



120	water, non-shock	2.16MPa
220	oil, air, steam, gas	1.96MPa
300	oil, air, steam	1.77MPa
350	oil, air, steam	1.57MPa

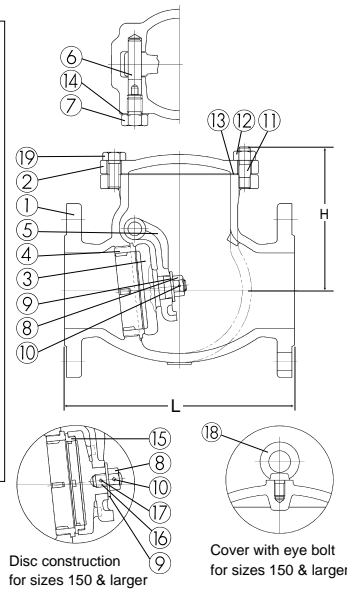
		(MPa)
Test pressure	Shell(Water)	3.3
	Seat(Water)	2.4-0.8

				(mm)
Size	L	H	W(kg)	
15mm (1/2")	108	51	2.1	
20 (3/4)	117	54	2.4	
25 (1)	127	61	3.9	
32 (1 1/4)	140	69	5.5	
40 (1 1/2)	165	77	6.5	
50 (2)	203	89	7.1	

No.	Parts	Materials
1	BODY	FCD-S
2	COVER	SUS 403
3	DISC	SUS 403
4	BODY SEAT RING	SUS 403
5	UNION NUT	FCMB-S35
6	GASKET	T#1215

Check Valves

16K Ductile Iron Swing Check Valve



120	water, non-shock	2.16MPa
220	oil, air, steam, gas	1.96MPa
300	oil, air, steam	1.77MPa
350	oil, air, steam	1.57MPa

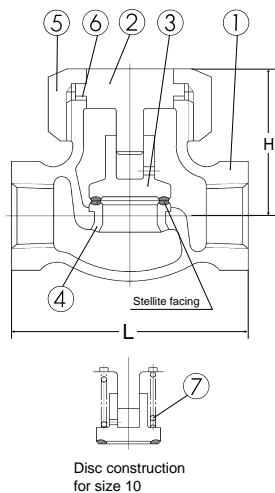
Test pressure	(MPa)	
	Shell(Water)	3.3
	Seat(Water)	2.4-0.8

Size	(mm)		
	L	H	W(kg)
50mm (2")	203	117	9.9
65 (2 1/2)	216	127	13.6
80 (3)	241	158	19.4
100 (4)	292	190	31.4
125 (5)	330	221	51.0
150 (6)	356	306	73.1
200 (8)	495	348	121.0

No.	Parts	Materials
1	BODY	FCD-S
2	COVER	FCD-S
3	DISC	SUS 403(sizes 50 to 125) FCD-S(sizes 150 & 200)
4	BODY SEAT RING	SUS 403
5	HANGER	SCS 13
6	HANGER PIN	SUS 403
7	PLUG	SS400
8	DISC NUT	SUS 304
9	WASHER	SUS 304
10	SPLIT PIN	SUS 304
11	COVER BOLT	S45C
12	COVER BOLT NUT	S45C
13	GASKET	V#VF-35E
14	GASKET	T#1950-JNS/T#1850P-C
15	DISC SEAT RING	SUS 403(sizes 150 & 200)
16	DISC STUD	SUS 304
17	KNOCK PIN	SUS 304
18	EYE BOLT	SS400
19	COVER BOLT	S45C

●Drain boss is provided in sizes 100 & larger.

20K Malleable Iron Lift Check Valve



120	water, non-shock	2.74MPa
220	oil, air, steam	2.45MPa
220	gas	2.35MPa
300	oil, air, steam	2.25MPa
350	oil, air, steam	1.96MPa

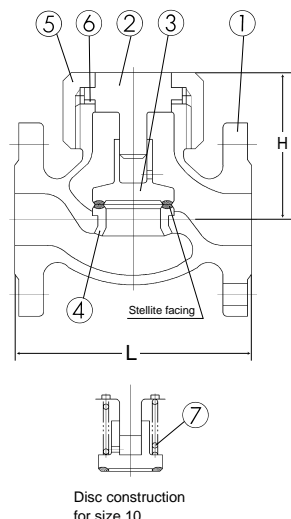
Test pressure	(MPa)	
	Shell(Water)	4.1
	Seat(Water)	3.0-1.0

Size	(mm)		
	L	H	W(kg)
10mm (3/8")	70	44	0.6
15 (1/2)	75	49	0.7
20 (3/4)	90	51	1.0
25 (1)	105	58	1.4
32 (1 1/4)	120	66	2.2
40 (1 1/2)	135	75	3.1
50 (2)	160	86	4.9

No.	Parts	Materials
1	BODY	FCMB-S35
2	CAP	SUS 403
3	DISC	SUS 403+STL
4	BODY SEAT RING	SUS 403+STL
5	UNION NUT	FCMB-S35
6	GASKET	T#1100
7	SPRING	SUS 304WPB(size 10*)

*Cracking pressure for size 10: 0.03~0.05MPa

20K Malleable Iron Lift Check Valve



120	water, non-shock	2.74MPa
220	oil, air, steam	2.45MPa
220	gas	2.35MPa
300	oil, air, steam	2.25MPa
350	oil, air, steam	1.96MPa

Test pressure	(MPa)	
	Shell(Water)	4.1
	Seat(Water)	3.0-1.0

Size	(mm)		
	L	H	W(kg)
10mm (3/8")	100	44	2.1
15 (1/2)	110	49	2.2
20 (3/4)	120	51	2.9
25 (1)	130	58	4.3
32 (1 1/4)	160	66	6.1
40 (1 1/2)	180	75	7.1
50 (2)	230	86	10.1

No.	Parts	Materials
1	BODY	FCMB-S35
2	CAP	SUS 403
3	DISC	SUS 403+STL
4	BODY SEAT RING	SUS 403+STL
5	UNION NUT	FCMB-S35
6	GASKET	T#1100
7	SPRING	SUS 304WPB(size 10*)

*Cracking pressure for size 10: 0.03~0.05MPa

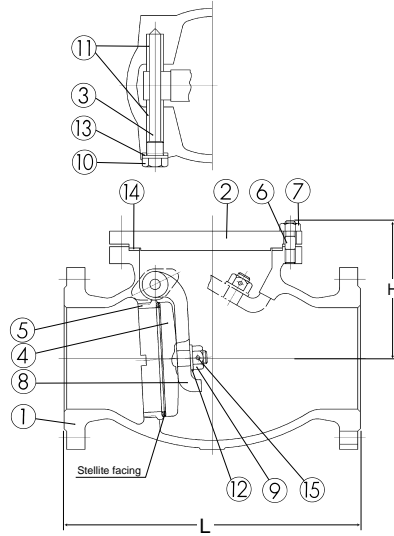
Check Valves

20K Malleable Iron Swing Check Valve

Fig 655A



JV4-5



Size	L	H	W(kg)
50mm (2")	267	140	15.7
65 (2 1/2)	292	150	21.3
80 (3)	318	160	31.3
100 (4)	356	175	43.7
125 (5)	400	215	59.9
150 (6)	444	235	99.3
200 (8)	533	275	139.0

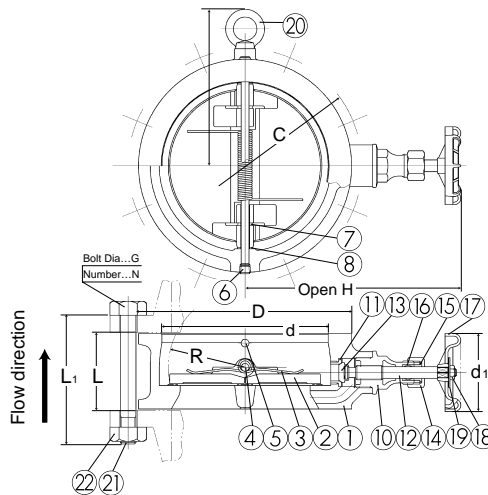
120	water, non-shock	2.74MPa
220	oil, air, steam	2.45MPa
220	gas	2.35MPa
300	oil, air, steam	2.25MPa
350	oil, air, steam	1.96MPa

Test pressure	(MPa)	
	Shell(Water)	4.1
Seat(Water)	3.0 ~ 1.0	

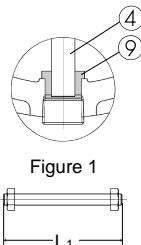
No.	Parts	Materials
1	BODY	FCMB-S35
2	COVER	SS400
3	HANGER PIN	SUS 403
4	DISC	S28C+STL
5	BODY SEAT RING	S28C+STL
6	COVER BOLT	S35C
7	COVER BOLT NUT	S45C
8	HANGER	SUS 403(size 50) S25C(size 65 to 200)
9	DISC NUT	SUS 304
10	PLUG	S25C
11	BUSH	SUS 403
12	WASHER	SUS 304
13	GASKET	T#1850
14	GASKET	T#1100
15	KNOCK PIN	SUS 304

20K Ductile Dual Plate Check Valve

Fig 645



Size	D	d ₁	D ₁	L	H	R	L ₁	X	W(kg)
40mm (1 1/2")	86	54	55	54	132	26	120	-	1.7
50 (2)	101	63	55	56	138	33	120	-	2.3
65 (2 1/2)	121	77	70	60	154	37	130	-	3.0
80 (3)	137	90	70	67	160	44	150	-	4.0
100 (4)	162	116	70	68	173	55	150	-	5.5
125 (5)	200	143	70	83	187	67	170	-	8.2
150 (6)	235	169	80	95	216	78	190	-	14.0
200 (8)	280	220	80	127	243	105	240	192	24.0
250 (10)	353	273	90	140	292	129	270	233	35.0
300 (12)	403	324	90	181	318	155	320	261	45.0
350 (14)	447	356	90	184	331	170	335	272	66.0
400 (16)	507	406	90	191	358	195	360	302	93.0
450 (18)	572	457	90	204	390	220	380	338	130.0



80	water, non-shock	2.8MPa
80	water, oil, gas	2.0MPa

Test pressure	(MPa)	
	Shell(Water)	4.2
Seat(Air)	0.6 ~ 0.05	

No.	Parts	Materials
1	BODY/SEAT	FCD-S/NBR
2	PLATE	CAC406
3	SPRING	SUS 304WPB
4	HINGE PIN	SUS 304
5	STOP PIN	SUS 304
6	PLUG	S45C
7	PLATE WASHER	Reinforced PTFE®
8	BODY WASHER	CAC406C(sizes 40 to 100)
9	BODY BUSH	CAC406C(sizes 125 to 450)
10	BONNET	C3771BE(sizes 40 to 125) CAC406C(sizes 150 to 450)
11	BODY SEAT RING	DR alloy
12	STEM	DR alloy
13	DISC	DR alloy
14	PACKING NUT	C3771BD
15	GLAND	C3771BD
16	GLAND PACKING	T#2996NA
17	HAND WHEEL	ZDC2(sizes 40 & 50) ADC12(sizes 65 to 450)
18	WHEEL NUT	SS400
19	NAME PLATE	A1100P-H
20	EYE BOLT	SS400(sizes 200 to 450)
21	PIPING BOLT	SS400
22	NUT	SS400

Note:

- Bush on the body is provided in sizes 125 & larger. (Figure 1)
- Eye bolt is provided in sizes 200 & larger.
- Bolts & Nuts are included.
 - Length of bolt conforms to JIS steel flange.
 - Bolt in sizes 200 & larger is hexagon head screw.
- Nuts & bolts are not included on unit weight.

Strainers

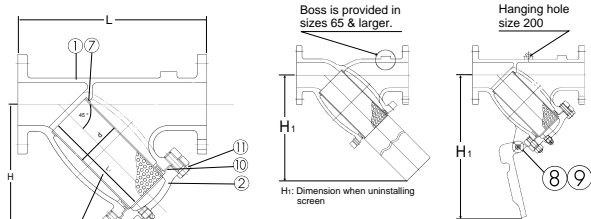


Screen construction
d₁: hole dia.
P: pitch

1. Perforated screen is provided as standard.
• (Equivalent to 14-16 meshes in sizes 150 & smaller, 12-14 meshes in sizes 200 & larger)
2. Special screen is available upon request.

10K Ductile Iron Y-Strainer

Fig 618



- Note:
1. Boss is provided in sizes 65 & larger.
 2. Hanging hole & wing hinge for cover is provided in size 200.

Size	L	H	H ₁	Screen			W(kg)
				d	L ₁	d ₁ × P	
50mm (2")	250	167	230	55	146	1.5 × 2.5	11
65 (2 1/2)	285	193	268	65	169	1.5 × 2.5	17
80 (3)	315	210	295	80	184	1.5 × 2.5	20
100 (4)	370	256	372	100	233	1.5 × 2.5	32
125 (5)	450	318	480	125	303	1.5 × 2.5	50
150 (6)	510	364	557	145	352	1.5 × 2.5	65
200 (8)	600	507	815	197	431	1.5 × 2.5	105

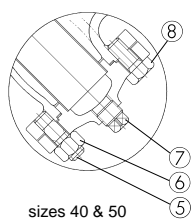
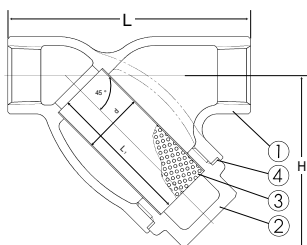
120	water, non-shock	1.37MPa
220	oil, air, steam, gas	1.18MPa
300	oil, air, steam	0.98MPa

Test pressure	Shell(Water)	2.1
	Seat	-

No.	Parts	Materials
1	BODY	FCD-S
2	COVER	FCD-S
3	SCREEN	SUS 304
4	COVER BOLT	SS400
5	COVER BOLT NUT	SS400
6	DRAIN PLUG	C3604BD
7	SUPPORT RING	SUS 430
8	BOLT	SUS 304(size 200)
9	U-NUT	SUS 304(size 200)
10	GASKET	T#1100
11	COVER BOLT	SS400

16K Ductile Iron Y-Strainer

Fig 628



Size	L	H	Screen			W(kg)
			d	L ₁	d ₁ × P	
15mm (1/2")	92	61	22	49.5	1.5 × 2.5	0.4
20 (3/4)	110	78	28	65	1.5 × 2.5	0.7
25 (1)	130	91	34	77	1.5 × 2.5	1.3
32 (1 1/4)	160	109	42	98	1.5 × 2.5	2.1
40 (1 1/2)	185	152	52	122	1.5 × 2.5	5.3
50 (2)	220	182	64	153	1.5 × 2.5	7.2

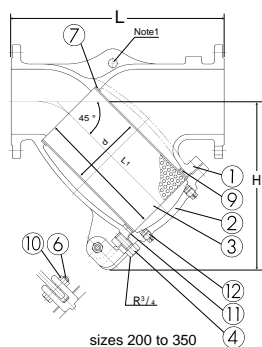
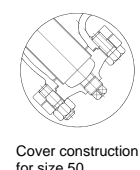
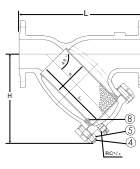
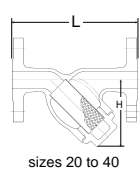
120	water, non-shock	2.16MPa
220	oil, air, steam, gas	1.96MPa
300	oil, air, steam	1.77MPa
350	oil, air, steam	1.57MPa

Test pressure	Shell(Water)	3.3
	Seat	-

No.	Parts	Materials
1	BODY	FCD-S
2	COVER/CAP	FCD-S
3	SCREEN	SUS 304
4	GASKET	T#1100(sizes 15 to 32) V#VF-35E(sizes 40 & 50)
5	COVER BOLT	S45C(sizes 40 & 50)
6	NUT	S45C(sizes 40 & 50)
7	PLUG	C3604BD
8	COVER BOLT	S45C(sizes 40 & 50)

16K Ductile Iron Y-Strainer

Fig 638



Size	L	H	H ₁	H ₀	Screen			W(kg)
					d	L ₁	d ₁ × P	
20mm (3/4")	150	77	108		28	65	1.5 × 2.5	2.4
25 (1)	175	89	128		34	77	1.5 × 2.5	3.4
32 (1 1/4)	200	109	162		42	98	1.5 × 2.5	4.9
40 (1 1/2)	250	162	200		52	122	1.5 × 2.5	8.1
50 (2)	270	185	250		64	153	1.5 × 2.5	12.0
65 (2 1/2)	315	229	306		80	185	1.5 × 2.5	20.6
80 (3)	355	259	345		94	207	1.5 × 2.5	28.0
100 (4)	430	308	420		120	250	1.5 × 2.5	42.3
125 (5)	490	358	498		150	295	1.5 × 2.5	64.1
150 (6)	550	398	562		180	331	1.5 × 2.5	90.3
200 (8)	660	538	685	900	234	398	2 × 3	146.0
250 (10)	800	624	836	1045	284	487	2 × 3	240.0
300 (12)	900	722	939	1195	340	540	2 × 3	327.0
350 (14)	950	778	998	1290	378	568	2 × 3.5	417.0

120	water, non-shock	2.16MPa
220	oil, air, steam, gas	1.96MPa
300	oil, air, steam	1.77MPa
350	oil, air, steam	1.57MPa

Test pressure	Shell(Water)	3.3
	Seat	-

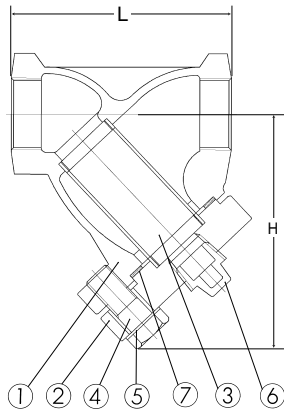
No.	Parts	Materials
1	BODY	FCD-S
2	COVER	FCD-S
3	SCREEN	SUS 304
4	COVER BOLT	S45C(sizes 40 to 350)
5	COVER BOLT NUT	S45C(sizes 40 to 350)
6	BOLT	SUS 304(sizes 200 to 350)
7	SUPPORT RING	SUS 304
8	SET SCREW	SUS 403(sizes 50 to 150)
9	STOPPER	SUS 304(sizes 200 to 350)
10	U-NUT	SUS 304(sizes 200 to 350)
11	GASKET	T#1100(sizes 20 to 32) V#VF-35E(sizes 40 to 350)
12	DRAIN PLUG	C3604BD(sizes 40 to 350)

- Notes:
1. Hanging hole & wing hinge for cover is provided in sizes 200 & larger.
 2. Cover shape in sizes 40 & 50 is quadrilateral.

Strainers / Ball Valve

20K Malleable Iron Y-Strainer

Fig 648A



120	water, non-shock	2.74MPa
220	oil, air, steam	2.45MPa
220	gas	2.35MPa
300	oil, air, steam	2.25MPa
350	oil, air, steam	1.96MPa

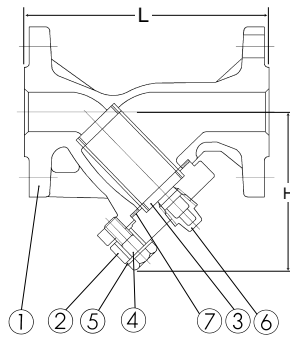
Test pressure	Shell(Water)	4.1
	Seat	-

Size	L	H	W(kg)
10mm (3/8")	70	60	0.7
15 (1/2)	75	70	1.0
20 (3/4)	90	85	1.3
25 (1)	105	100	2.0
32 (1 1/4)	120	145	3.3
40 (1 1/2)	135	160	3.3
50 (2)	160	175	3.9

No.	Parts	Materials
1	BODY	FCMB-S35
2	COVER	FCMB-S35
3	SCREEN	SUS 304(50mesh)
4	COVER BOLT	S45C
5	WASHER	SPCC
6	PLUG	S20C(sizes 10 to 20) FCMB-S35(sizes 25 to 50)
7	GASKET	T#1100

20K Malleable Iron Y-Strainer

Fig 658A



120	water, non-shock	2.74MPa
220	oil, air, steam	2.45MPa
220	gas	2.35MPa
300	oil, air, steam	2.25MPa
350	oil, air, steam	1.96MPa

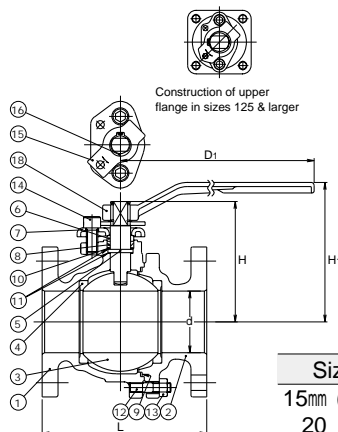
Test pressure	Shell(Water)	4.1
	Seat	-

Size	L	H	W(kg)
10mm (3/8")	120	57	2.3
15 (1/2)	130	68	2.6
20 (3/4)	140	77	3.1
25 (1)	160	91	4.7
32 (1 1/4)	190	137	6.5
40 (1 1/2)	210	154	7.4
50 (2)	250	170	11.5

No.	Parts	Materials
1	BODY	FCMB-S35
2	COVER	FCMB-S35
3	SCREEN	SUS 304(50mesh)
4	COVER BOLT	S45C
5	WASHER	SPCC
6	PLUG	S20C(sizes 10 to 20) FCMB-S35(sizes 25 to 50)
7	GASKET	T#1100

10K Ductile Iron Ball Valve

Fig 607L



Service ratings	See page 15
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Test pressure	Shell(Water)	2.1
	Seat(Air)	0.6

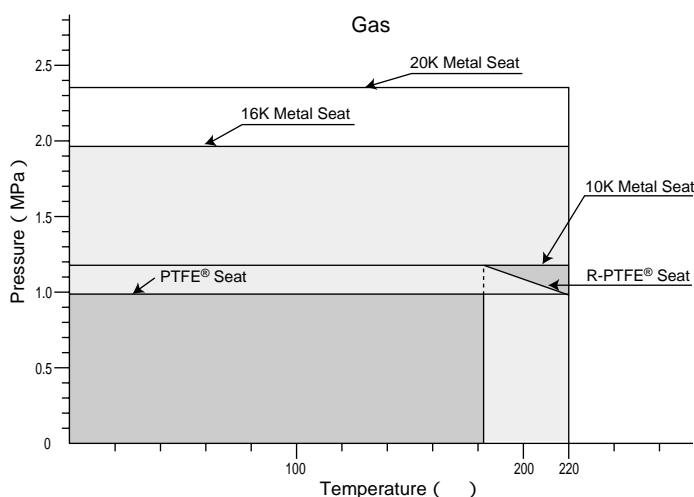
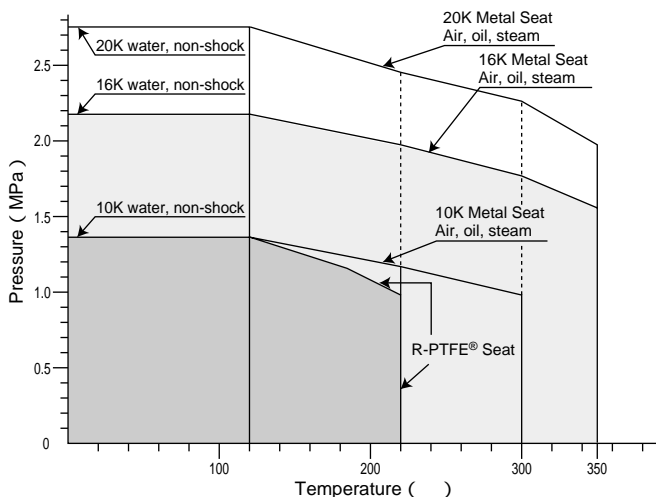
Size	d	L	H	H ₁	D ₁	W(kg)
15mm (1/2")	13	108	55	74	115	2.2
20 (3/4)	19	117	59	78	115	2.9
25 (1)	25	127	71	95	150	4.6
40 (1 1/2)	38	165	100	128	200	7.5
50 (2)	51	178	108	137	200	10.5
65 (2 1/2)	65	190	139	163	320	15.6
80 (3)	76	203	149	173	320	18.3
100 (4)	102	229	183	211	450	31.0
125 (5)	127	356	231	269	800	52.5
150 (6)	152	394	250	288	800	73.0
200 (8)	203	457	328	374	1120	126.0

No.	Parts	Materials
1	BODY	FCD-S
2	CAP	FCD-S
3	BALL	SCS 13/SUS 304
4	SEAT	PTFE [®]
5	STEM	SUS 304
6	GLAND	SUS 304
7	GLAND FLANGE	SS400/FCD450
8	PACKING	PTFE [®]
9	GASKET	T#1995
10	PACKING WASHER	SUS 304
11	THRUST BEARING	PTFE [®]
12	STUD	SS490/S45C
13	NUT	SS490/S45C
14	GLAND BOLT	SCM435
15	STOPPER	SS400/FCD450
16	SNAP RING	SK5M
17	LEVER HANDLE*	SS400(sizes 50 & smaller) FCD450(sizes 65 & 80) FCD450+SGP(sizes 100 & larger)

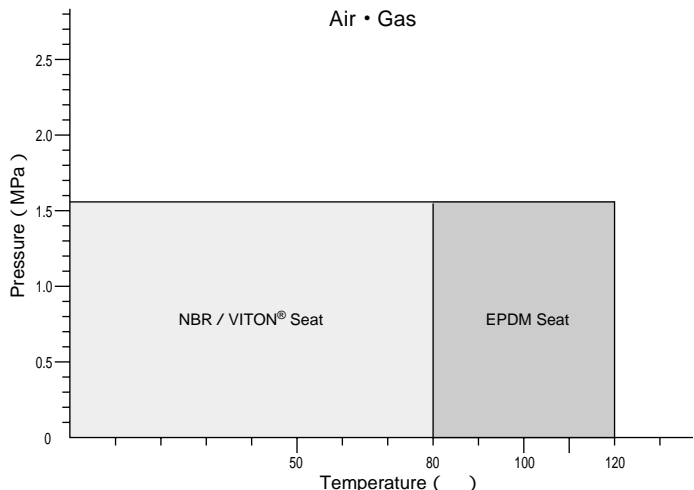
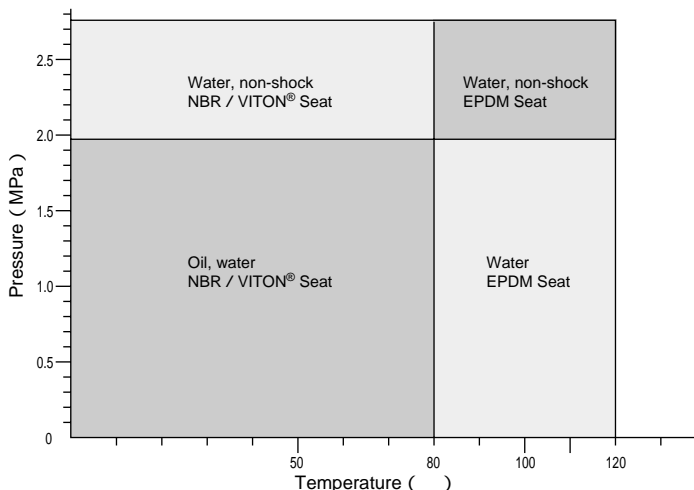
*Gear operator is available upon request.
(Fig 607G)

Pressure - Temperature Ratings

Gate, Globe, Check, Strainer / Screwed, Flanged Ends

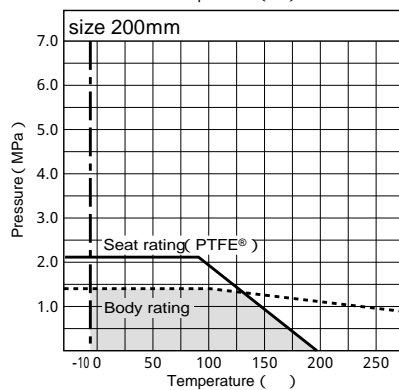
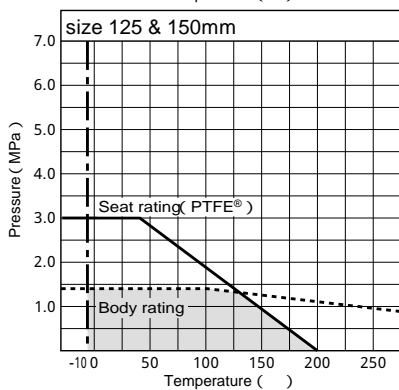
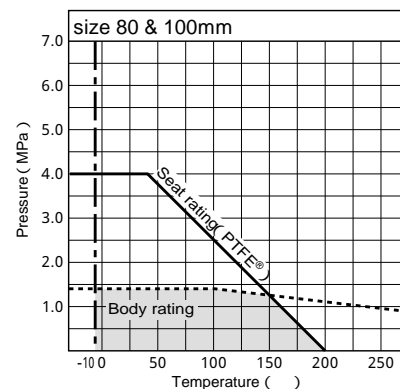
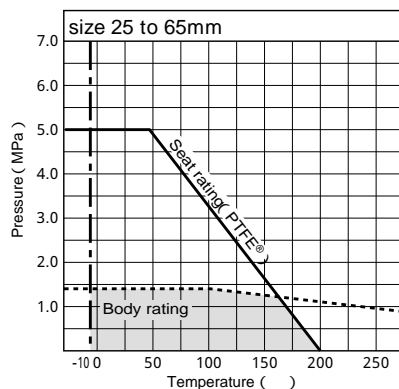
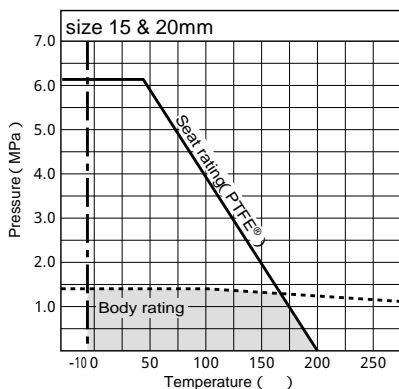


Dual Plate Check Valve (Fig 655)



Note: 1) Service temperature is restricted by seat material. (Maximum service temperature/ NBR: 80°C, VITON: 120°C, EPDM 120°C)
 2) EPDM seat is not suitable for oil.

10K Ductile Iron Ball Valves (Fig 607)



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