

PRODUCTS CATALOG



Yamato Valve Co., Ltd.

<http://www.yamatovalve.co.jp>

BRONZE

BRASS

CAST IRON

BUTTERFLY

DUCTILE IRON

STAINLESS

AUTOMATIC

PRICE

APPENDIX

About Us

Thank you for using Yamato Valve's products.

Since our foundation as a specialized valve manufacturer in 1919, we have provided products with the Yamato mark (Y letter on a picture of cherry blossom) for almost 100 years.

With our motto "Customer first," we have always strived to provide high quality products to our customers. Our bronze products are internally casted, machined, assembled, and delivered under an integrated system, which helps us to maintain and improve high quality. The year before last, our group company, Dalian Daimaru Industrial Co., Ltd., started operation as a factory for JIS bronze gate valves and joined as a production factory for the main products ensuring high quality equivalent to those manufactured in Japan.

Under the current situation in which needs are becoming more diverse in the industry and the new wave of technological innovation is unleashed as represented by IoT and AI, we will commit ourselves to developing new products. We also put high priority on the establishment of Yamato as an international brand capable of responding to globalization.

We value the basic simple idea of the manufacturing business: to buy up raw materials at lower prices, create products of higher quality at lower costs in a shorter period, and deliver them more quickly to customers. We will strive to be a company that can contribute to customers and society.

We would greatly appreciate even more support and advice from you.

President and CEO
Toshikazu Ito

Group Company

Daimaru Industrial Co., Ltd.

Main business : Manufacture and sales of casting
Address : 422 Nishitsuzura-machi, Hikone-shi,
Shiga, Japan



Dalian Daimaru Industry Co., Ltd.

Main business : Manufacture and sales of various valves and accessories
Address : Lushun N Rd, Lushunkou Direct,
Dalian City, Liaoning Province, P.R.
China



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10K JIS 10K CAST BRONZE GATE VALVE

Screwed Bonnet, Rising Stem
Threaded ends to JIS B0203(BS21)
Designed to JIS B2011

W.O.G -29°C to 120°C (not freezing) 1.4MPa, 171°C 1.0 MPa

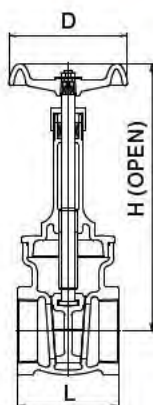


Fig. B10G

Parts	Material	SPEC	
		JIS	ASTM
Body	Bronze	CAC406	B62-C83600
Bonnet	Bronze	CAC406	B62-C83600
Stem	Brass	C3531B	DR Alloy
Disc	Bronze	CAC406	B62-C83600
Packing	Non-Asbestos	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
mm	10	15	20	25	32	40	50	65	80
L	46	55	65	70	80	90	100	120	140
H	133.5	134.5	159	189	217	251	303	388	443
D	55	55	70	80	90	100	110	140	160

PN 16 CAST BRONZE GATE VALVE

Screwed Bonnet, Non Rising Stem
Threaded ends to JIS B0203(BS21) or NPT

W.O.G -10°C to 100°C (not freezing) 1.6MPa

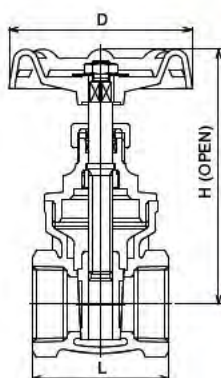


Fig. TIG

Parts	Material	SPEC	
		JIS	ASTM
Body	Bronze	CAC406	B62-C83600
Bonnet	Bronze	CAC406	B62-C83600
Stem	Brass	C3604B	B16-C36000
Disc	Bronze	CAC406	B62-C83600
Packing	Teflon	PTFE	PTFE

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	42	47	50	59	63	71
H	77	88	98	113	128	146
D	55	63	63	70	80	90

10K JIS 10K CAST BRONZE GLOBE VALVE

Screwed Bonnet, Rising Stem
Threaded ends to JIS B0203(BS21)
Designed to JIS B2011

W.O.G -29°C to 120°C (not freezing) 1.4MPa, 185°C 1.0 MPa

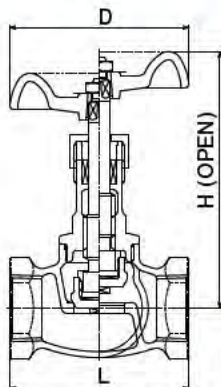


Fig. B10S

Parts	Material	SPEC	
		JIS	ASTM
Body	Bronze	CAC406	B62-C83600
Bonnet	Bronze	CAC406	B62-C83600
Stem	Brass	C3531B	DR Alloy
Disc	Brass *1	C3604B	B16-C36000
Packing	Non-Asbestos	Commercial	Commercial

*1. Bronze: Size 1-1/4 & larger

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
mm	8	10	15	20	25	32	40	50
L	50	55	65	80	90	105	120	140
H	84	84	85.5	115	128	142	156.5	184
D	55	55	63	70	90	100	110	125

CLASS 100 CAST BRONZE GLOBE VALVE

Screwed Bonnet, Rising Stem
Threaded ends to JIS B0203(BS21)

W.O.G 120°C 0.7MPa, Saturated steam 0.4MPa, Water, non-shock 120°C 1.0MPa

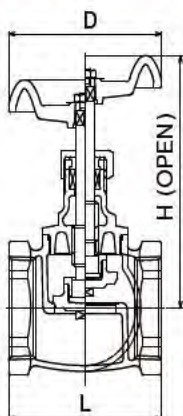


Fig. BS

Parts	Material	SPEC	
		JIS	ASTM
Body	Bronze	CAC406	B62-C83600
Bonnet	Brass *1	C3604B	B16-C36000
Stem	Brass	C3531B	DR Alloy
Disc	Brass *2	C3604B	B16-C36000
Packing	Non-Asbestos	Commercial	Commercial

*1. Bronze: Size 1 & larger

*2. Bronze: Size 1-1/2 & larger

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
mm	15	20	25	32	40	50	65	80
L	45	51	60	72	80	94	115	130
H	71.5	77	88	99	117	132.5	172	190
D	55	55	63	70	80	90	125	140

10K JIS 10K CAST BRONZE SWING CHECK VALVE

Screwed Cap
Threaded ends to JIS B0203(BS21)
Designed to JIS B2011

W.O.G -29°C to 120°C (not freezing) 1.4MPa, 185°C 1.0 MPa

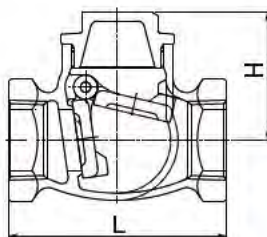


Fig. B10C

Parts	Material	SPEC	
		JIS	ASTM
Body	Bronze	CAC406	B62-C83600
Disc	Bronze	CAC406	B62-C83600
Cap	Bronze	CAC406	B62-C83600
Hinge Pin	Brass	C3604B	B16-C36000

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	65	80	90	105	120	140
H	38	46	53	63	72	86

CLASS 125 CAST BRONZE SWING CHECK VALVE

Screwed Cap
Threaded ends to JIS B0203(BS21)

W.O.G 120°C 0.88MPa, Saturated steam 0.5MPa, Water, non-shock 120°C 1.2MPa

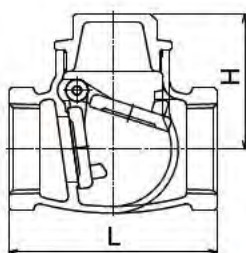


Fig. BC

Parts	Material	SPEC	
		JIS	ASTM
Body	Bronze	CAC406	B62-C83600
Disc	Brass *1	C3604B	B16-C36000
Cap	Brass *1	C3604B	B16-C36000
Hinge Pin	Brass	C3604B	B16-C36000

*1. Bronze: Size 1-1/4 & larger

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
mm	15	20	25	32	40	50	65	80
L	55	65	75	90	100	120	148	165
H	36	42	50	59	64	76	88	96

BRONZE

BRASS

CAST IRON

BUTTERFLY

DUCTILE IRON

STAINLESS

AUTOMATIC

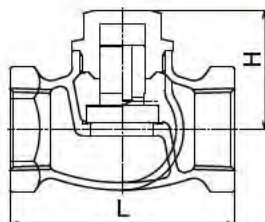
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10K CAST BRONZE LIFT CHECK VALVE

Screwed Cap
Threaded ends to JIS B0203(BS21)

W.O.G -29°C to 120°C (not freezing) 1.4MPa, 185°C 1.0 MPa



Parts	Material	SPEC	
		JIS	ASTM
Body	Bronze	CAC406	B62-C83600
Disc	Bronze	CAC406	B62-C83600
Cap	Bronze	CAC406	B62-C83600

* This valve is not designed to handle toxic gas or flammable gas.

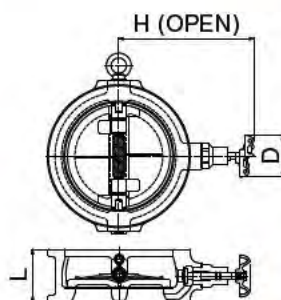
inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	65	80	90	105	120	140
H	32	40	48	57	66	76

Fig. B10LC

10K CAST BRONZE DUAL PLATE WAFER CHECK VALVE

Water Hammer Absorption Type
with By-pass
Wafer connection to JIS 10K Flange

Water, pulsating flow 1.0MPa, Air 1.0MPa, Water, non-shock 100°C 1.4MPa



Parts	Material	SPEC	
		JIS	ASTM
Body	Bronze	CAC406	B62-C83600
Plate	Bronze	CAC406	B62-C83600
Spring	Stainless	SUS304-WPB	A276-304
Bonnet	Brass	C3604B	B16-C36000
Stem	Bronze	CAC406	B62-C83600
Seat	Rubber	EPDM	EPDM

* This valve is not designed to handle toxic gas or flammable gas.

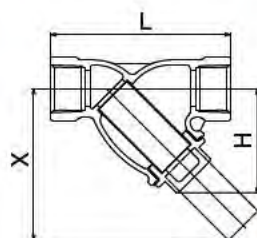
inch	2	2 1/2	3	4	5	6	8
mm	50	65	80	100	125	150	200
L	54	56	60	66	70	76	95
H	128	142	149.5	163.5	177	199.5	227.5
D	55	55	55	55	55	55	55

Fig. B10WC

10K CAST BRONZE Y-TYPE STRAINER

Screwed Cap
Stainless steel Screen
Threaded ends to JIS B0203(BS21)

W.O.G 120°C 1.0MPa, Water, non-shock 120°C 1.4MPa



Parts	Material	SPEC	
		JIS	ASTM
Body	Bronze	CAC406	B62-C83600
Cap	Brass *1	C3640B	B16-C36000
Screen	Stainless	SUS304-CP	A276-304
Gasket	Non-Asbestos	Commercial	Commercial

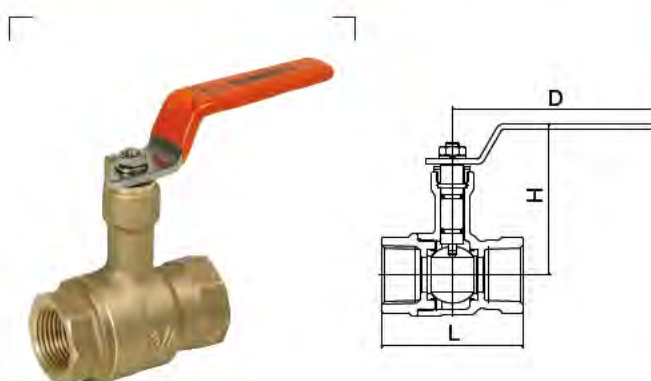
*1. Bronze: Size 2-1/2

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
mm	15	20	25	32	40	50	65
L	80	100	115	135	160	195	225
H	49	58	71	82	98	120	136
X	70	85	108	127	152	191	216

Fig. B10YT

W.O Ambient temp. 2.8MPa, Air Ambient temp. 1.0MPa, W.O.G 120°C 0.7MPa


Fig. VLYS

Parts	Material	SPEC	
		JIS	ASTM
Body	Bronze	CAC406	B62-C83600
Cap	Bronze	CAC406	B62-C83600
Stem	Stainless	SUS304	A276-304
Ball	Stainless *1	SUS304	A276-304
Ball Seat	Teflon	PTFE	PTFE
Packing	Teflon	PTFE	PTFE
O-Ring	Rubber	FKM	FKM

*1. Brass: Size 1-1/4 & larger

*This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	60	66.5	81	90.5	98	117
H	77	80	85.5	98	103.5	111.5
D	85	85	115	115	115	130

Measures against dezincification of bronze valve

To address the issue of dezincification of valve stem, we adopted CAC406C (Note 1, the former BC6C) ahead of others and realized a perfect solution to corrosion issues. However, adopting CAC406C on all products will inconvenience customers in terms of price; therefore, we adopted economical and high quality dezincification-resistant brass bars, and currently offer CAC406C and NBY for dezincification-resistant materials. We respond to diverse customer needs by offering these two options. Generally, when they are used in piping systems where fluids are well water, hot spring water, or a high temperature hot-water supply system or a high chloride concentration, corrosiveness is higher. Because the cause of corrosiveness is extremely complex, CAC406C is recommended for high performance and use in severe conditions.

(Note 1) CAC406C: bronze continuous casting Type 6

Direct valve series

Direct valve is newly developed to lay a valve directly in hard vinyl chloride piping. JIS K 6743 VINYL CHLORIDE (PVC-U) pipe fitting for water supply become fully integrated with Bronze Gate Valve JIS B 2011. It definitely contributes to easy and speedy construction.

FEATURE

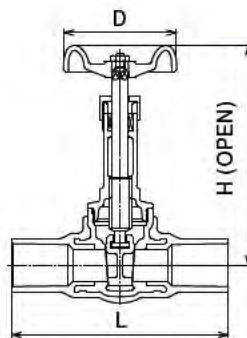
- > Valve socket is unnecessary
- > Easy construction in the small space
- > Decrease the water leaked point
- > Can check a piping state immediately
- > Shorten the construction time



10K BRONZE GATE VALVE WITH PVC FITTING

Screwed Bonnet
Rising Stem
PVC Socket ends to JIS K 6742

Water 0°C to 45°C 1.0MPa



Parts	Material	SPEC	
		JIS	ASTM
Body	Bronze	CAC406	B62-C83600
Bonnet	Bronze	CAC406	B62-C83600
Stem	Brass	C3531B	DR Alloy
Disc	Bronze	CAC406	B62-C83600
Packing	Non-Asbestos	Commercial	Commercial
Socket	Plastic	PVC-U	PVC-U

* This valve is not designed to handle toxic gas or flammable gas.

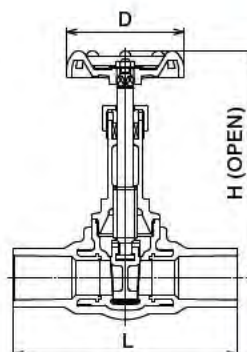
inch	1/2	3/4	1
mm	13	20	25
L	108	134	152
H	134.5	159	189
D	55	70	80

Fig. B10EGN

10K BRONZE GATE VALVE WITH PVC FITTING

Screwed Bonnet, Rising Stem
Heat Resistant
PVC Socket ends to JIS K 6776

Water 0°C to 90°C 1.0MPa



Parts	Material	SPEC	
		JIS	ASTM
Body	Bronze	CAC406	B62-C83600
Bonnet	Bronze	CAC406	B62-C83600
Stem	Brass	C3531B	DR Alloy
Disc	Bronze	CAC406	B62-C83600
Packing	Non-Asbestos	Commercial	Commercial
Socket	Plastic	PVC-C	PVC-C

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1
mm	13	20	25
L	108	134	152
H	134.5	159	189
D	55	70	80

Fig. B10ETGN

10K BRONZE GATE VALVE WITH CLEAR PVC FITTING

Screwed Bonnet,
Rising Stem
Clear PVC Socket ends to JIS K 6742

Water 0°C to 45°C 1.0MPa

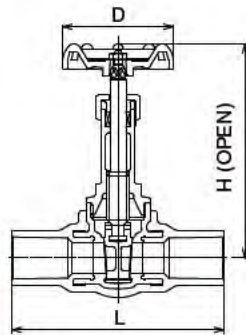


Fig. B10ESGN

Parts	Material	SPEC	
		JIS	ASTM
Body	Bronze	CAC406	B62-C83600
Bonnet	Bronze	CAC406	B62-C83600
Stem	Brass	C3531B	DR Alloy
Disc	Bronze	CAC406	B62-C83600
Packing	Non-Asbestos	Commercial	Commercial
Socket	Plastic	PVC-U	PVC-U

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1
mm	13	20	25
L	108	134	152
H	134.5	159	189
D	55	70	80

10K BRONZE GATE VALVE WITH PVC FITTING FOR UNDER GROUND

Screwed Bonnet,
Rising Stem
PVC Socket ends to JIS K 6742, 6741

Water 0°C to 45°C 1.0MPa

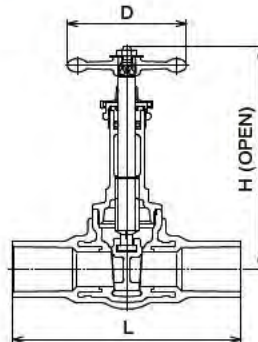


Fig. B10EMGN

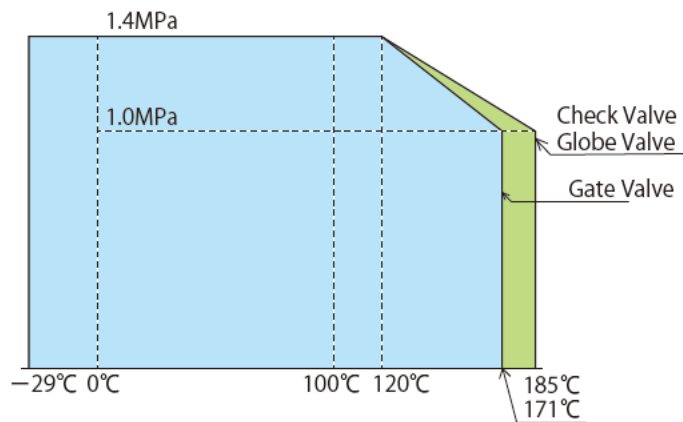
Parts	Material	SPEC	
		JIS	ASTM
Body	Bronze	CAC406	B62-C83600
Bonnet	Bronze	CAC406	B62-C83600
Stem	Brass	C3531B	DR Alloy
Disc	Bronze	CAC406	B62-C83600
O-Ring	Rubber	EPDM	EPDM
Socket	Plastic	PVC-U	PVC-U

* This valve is not designed to handle toxic gas or flammable gas.

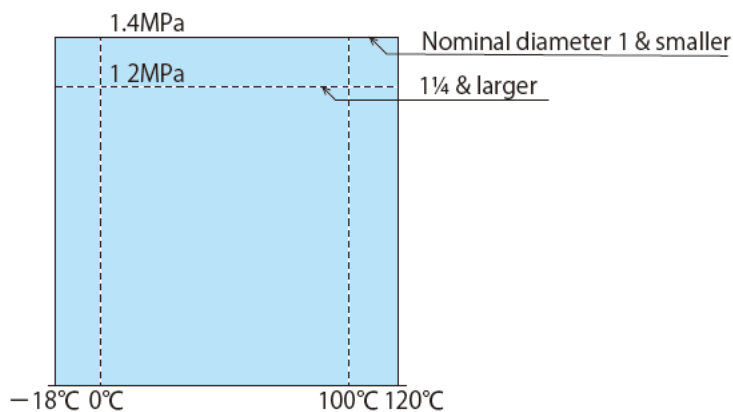
inch	1/2	3/4	1
mm	13	20	25
L	108	134	152
H	133	154	184
D	57	70	80

Pressure and temperature rating of JIS B2011

● Nominal Pressure 10K (Threaded ends)



● Nominal Pressure 10K (Solder Type Gate Valve and Check Valve)



1. Applicable fluids:

Water, oil, gas, air, and steam. However, flammable gas and toxic gas are excluded. Moreover, the fluids shall not be frozen.

2. Non-applicable cases:

If the use of valves is prohibited or limited by the High Pressure Gas Safety Act or other laws or ordinances, use the valve within the scope specified by such laws or ordinances.

CLASS 125 BRASS GATE VALVE

Screwed Bonnet
Non Rising Stem
Threaded ends to JIS B0203(BS21)

W.O.G 100°C 0.88MPa, Water, non-shock 100°C 1.2MPa

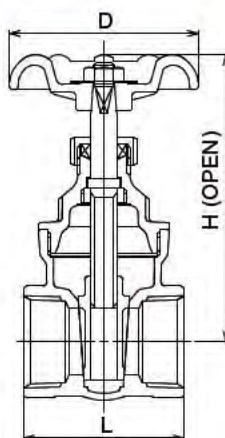


Fig. LIG

Parts	Material	SPEC	
		JIS	ASTM
Body	Forged Brass *1	C3771B	B124-C37700
Bonnet	Forged Brass	C3771B	B124-C37700
Stem	Brass	C3604B	B16-C36000
Disc	Forged Brass	C3771B	B124-C37700
Packing	Rubber	NBR	NBR

*1. Cast Brass: Size 2 & larger

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
mm	15	20	25	32	40	50	65	80
L	42	46	50	58	61	72	89	101
H	73	83	94	114	123	148	183	212
D	54	54	61	77	77	83	105	132

CLASS 600 FORGED BRASS BALL VALVE FULL BORE

Screwed Body Cap
Threaded ends to JIS B0203(BS21) or NPT

W.O Ambient temp. 4.2MPa, Air Ambient temp. 1.0MPa, W.O.G 120°C 0.7MPa

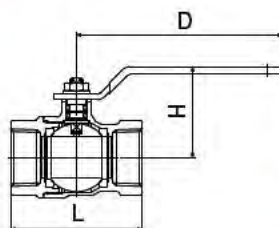


Fig. VEB

Parts	Material	SPEC	
		JIS	ASTM
Body	Forged Brass	C3771B	B124-C37700
Cap	Forged Brass	C3771B	B124-C37700
Stem	Brass(Cr-Plating)	C3604B	B16-C36000
Ball	Brass(Cr-Plating)	C3604B	B16-C36000
Ball Seat	Teflon	PTFE	PTFE
O-Ring	Rubber	FKM	FKM

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
mm	8	10	15	20	25	32	40	50
L	44	44	49	60	72	83	87	102
H	33	33	35	42	54	59	74	80
D	76	76	76	94	121	121	152	152

CLASS 600 FORGED BRASS BALL VALVE FULL BORE

Screwed Body Cap
Threaded ends to JIS B0203(BS21)

W.O Ambient temp. 4.2MPa, Air Ambient temp. 1.0MPa, W.O.G 120°C 0.7MPa

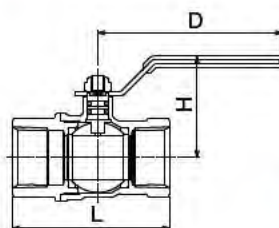


Fig. VHB3

Parts	Material	SPEC	
		JIS	ASTM
Body	Forged Brass	C3771B	B124-C37700
Cap	Forged Brass	C3771B	B124-C37700
Stem	Stainless	SUS304	A276-304
Ball	Brass(Cr-Plating)	C3604B	B16-C36000
Ball Seat	Teflon	PTFE	PTFE
O-Ring	Rubber	FKM	FKM

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
mm	8	10	15	20	25	32	40	50
L	50	50	65	68	79	86	96	110
H	37	37	40	44	50	55	65	72
D	70	70	80	80	110	110	150	150

BRONZE

BRASS

CAST IRON

BUTTERFLY

DUCTILE IRON

STAINLESS

AUTOMATIC

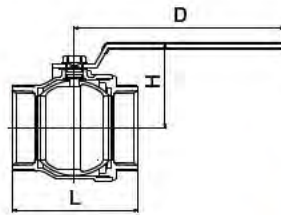
PRICE

APPENDIX

CLASS 400 CAST BRASS BALL VALVE FULL BORE

Screwed Body Cap
Threaded ends to JIS B0203(BS21)

W.O Ambient temp. 2.8MPa, Air Ambient temp. 1.0MPa, W.O.G 120°C 0.7MPa



Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Brass	CAC203	B584-C85700
Cap	Forged Brass	C3771B	B124-C37700
Stem	Brass	C3604B	B16-C36000
Ball	Brass (Cr-Plating)	C3604B	B16-C36000
Ball Seat	Teflon	PTFE	PTFE
O-Ring	Rubber	NBR	NBR

* This valve is not designed to handle toxic gas or flammable gas.

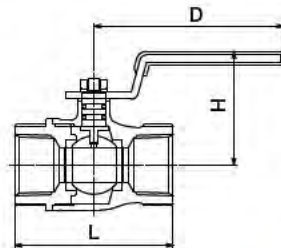
inch	2 1/2	3
mm	65	80
L	138	167
H	110	121
D	250	250

Fig. VHBL

CLASS 400 FORGED BRASS BALL VALVE STANDARD BORE

Screwed Body Cap
Threaded ends to JIS B0203(BS21)

W.O Ambient temp. 2.8MPa, Air Ambient temp. 1.0MPa, W.O.G 120°C 0.7MPa



Parts	Material	SPEC	
		JIS	ASTM
Body	Forged Brass	C3771B	B124-C37700
Cap	Forged Brass	C3771B	B124-C37700
Stem	Stainless *1	SUS304	A276-304
Ball	Brass (Cr-Plating)	C3604B	B16-C36000
Ball Seat	Teflon	PTFE	PTFE
O-Ring	Rubber	FKM	FKM

*1. Brass: Size 1 & larger

* This valve is not designed to handle toxic gas or flammable gas.

inch	3/8	1/2	3/4	1	1 1/4	1 1/2	2
mm	10	15	20	25	32	40	50
L	50	65	68	79	86	96	109
H	45	45	48	53	57	63	75
D	62	82	82	112	112	112	142

Fig. V2

Diameter (bore) of ball valve

Three types of bore are offered depending on the size of actual diameter against nominal diameter of ball valves.

● Full bore

Diameter is the same size as the nominal diameter

● Standard bore

Diameter is one size smaller than the nominal diameter

● Reduced bore

Diameter is two sizes smaller than the nominal diameter

EX.)

Nominal Dia.	Dia.	Bore Type
1B(25A)	25mm	Full Bore
	20mm	Standard Bore
	15mm	Reduced Bore

10K JIS 10K CAST IRON GATE VALVE

Bolted Bonnet, Outside Screw and Yoke
Rising Stem, Flanged ends to JIS B2239
Designed to JIS B2031

W.O.G 120°C 1.0MPa, Saturated steam 0.7MPa, Water, non-shock 120°C 1.4MPa

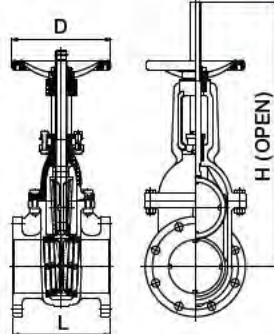


Fig. F10GE

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Iron	FC200	A126-CL. B
Bonnet	Cast Iron	FC200	A126-CL. B
Stem	Stainless	SUS420J1	A276-420
Disc	Bronze *1	CAC406	B62-C83600
Body Seat Ring	Bronze	CAC406	B62-C83600
Disc Seat Ring	Bronze *2	CAC406	B62-C83600
Packing	Non-Asbestos	Commercial	Commercial

*1. Cast Iron: Size 5 & larger

*2. Not Applicable: Size 4 & larger

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2½	3	4	5	6	8	10	12
mm	50	65	80	100	125	150	200	250	300
L	180	190	200	230	250	270	290	330	350
H	346	391	469	545	638	740	940	1125	1329
D	190	190	210	240	260	270	300	350	390

10K JIS 10K CAST IRON GLOVE VALVE

Bolted Bonnet, Rising Stem
Flanged ends to JIS B2239
Designed to JIS B2031*

W.O.G 120°C 1.0MPa, Saturated steam 0.7MPa, Water, non-shock 120°C 1.4MPa

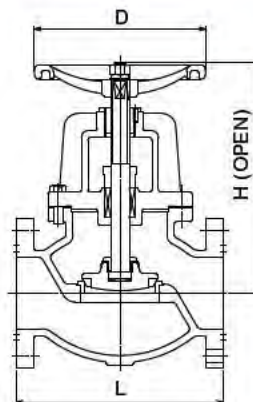


Fig. F10SE

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Iron	FC200	A126-CL. B
Bonnet	Cast Iron	FC200	A126-CL. B
Stem	Stainless	SUS420J1	A276-420
Disc	Cast Iron	FC200	A126-CL. B
Body Seat Ring	Bronze *1	CAC406	B62-C83600
Disc Seat Ring	Bronze *2	CAC406	B62-C83600
Packing	Non-Asbestos	Commercial	Commercial
Gasket	Non-Asbestos	Commercial	Commercial

*1. SUS403: Size 10 & larger

*2. Size 10 & 12 shall not be accordance with JIS B2031.

* This valve is not designed to handle toxic gas or flammable gas.

inch	1½	2	2½	3	4	5	6	8	10	12
mm	40	50	65	80	100	125	150	200	250	300
L	190	200	220	240	290	360	410	500	620	700
H	260	269	301.5	313	366.5	447	504	614	710	883
D	190	190	190	210	240	260	270	350	450	500

10K JIS 10K CAST IRON SWING CHECK VALVE

Bolted Cap
Flanged ends to JIS B2239
Designed to JIS B2031

W.O.G 120°C 1.0MPa, Saturated steam 0.7MPa, Water, non-shock 120°C 1.4MPa

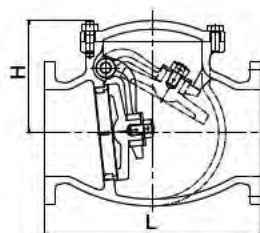


Fig. F10CE

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Iron	FC200	A126-CL. B
Cap	Cast Iron	FC200	A126-CL. B
Disc	Bronze	CAC406	B62-C83600
Body Seat Ring	Bronze	CAC406	B62-C83600
Hinge Pin	Brass	C3604B	B16-C36000
Packing	Non-Asbestos	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2½	3	4	5	6	8	10	12
mm	50	65	80	100	125	150	200	250	300
L	200	220	240	290	360	410	500	620	700
H	125	135	150	170	195	225	260	348	376

BRONZE

BRASS

CAST IRON

BUTTERFLY

DUCTILE IRON

STAINLESS

AUTOMATIC

PRICE

APPENDIX

10K CAST IRON DUAL PLATE WAFER CHECK VALVE

Water Hammer Absorption Type
with By-pass
Wafer connection to JIS 10K Flange

Water, pulsating flow and Air 100°C 1.0MPa, Water, non-shock 100°C 1.4MPa

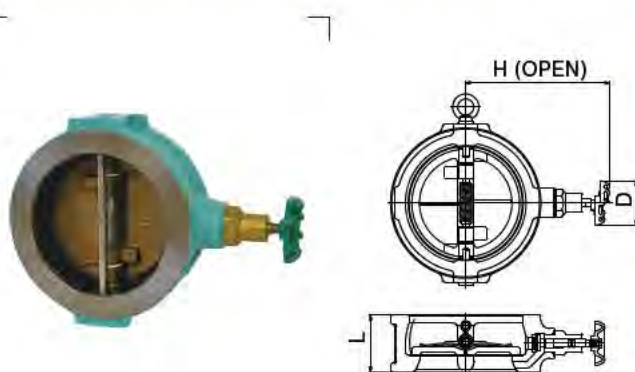


Fig. F10WC

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Iron	FC200	A126-CL. B
Plate	Bronze	CAC406	B62-C83600
Spring	Stainless	SUS304-WPB	A276-304
Bonnet	Brass	C3604B	B16-C36000
Stem	Brass	C3604B	B16-C36000
Seat	Rubber	EPDM	EPDM

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2½	3	4	5	6	8	10	12
mm	50	65	80	100	125	150	200	250	300
L	54	56	60	66	70	76	95	108	144
H	132.5	146.5	153.5	166.5	179.5	203.5	230.5	262.5	288.5
D	55	55	55	55	55	55	55	55	55

10K CAST IRON Y-TYPE STRAINER

Bolted Cap
Flanged ends to JIS B2239
Stainless steel Screen

W.O.G 120°C 1.0MPa, Water, non-shock 120°C 1.4MPa



Fig. F10YE

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Iron	FC200	A126-CL. B
Cap	Cast Iron	FC200	A126-CL. B
Screen	Stainless	SUS304CP	A276-304
Gasket	Non-Asbestos	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2½	3	4	5	6	8	10	12	14	16
mm	50	65	80	100	125	150	200	250	300	350	400
L	240	280	320	350	410	470	580	690	800	960	1050
H	150	187	219	244	292	343	447	536	601	704	779
X	214	270	322	347	423	506	609	720	831	1002	1106

10K CAST IRON BALL VALVE FULL BORE

Bolted Body Cap
Flanged ends to JIS B2239

W.O.G 120°C 1.0MPa

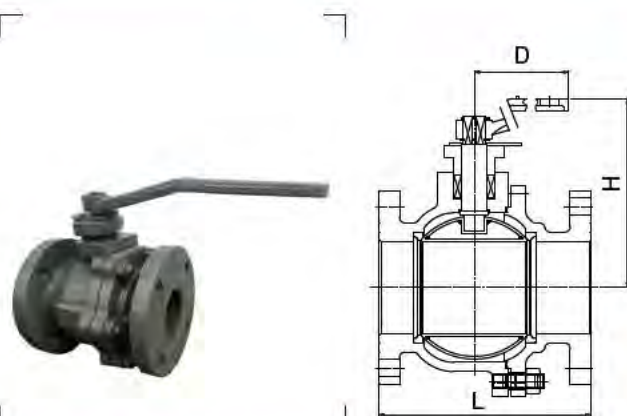


Fig. F10VE2

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Iron	FC200	A126-CL. B
Cap	Cast Iron	FC200	A126-CL. B
Stem	Stainless	SUS420J1	A276-420
Ball	Stainless	SUS304	A276-304
Ball Seat	Teflon	PTFE	PTFE
Packing	Teflon	PTFE	PTFE

* This valve is not designed to handle toxic gas or flammable gas.

inch	1½	2	2½	3	4	5	6	8
mm	40	50	65	80	100	125	150	200
L	165	180	190	200	230	300	340	450
H	144	155	171	192	205	277	313	366
D	271	271	271	500	500	1000	1000	1500

● Screen with special mesh specification for strainers

If you select the special mesh specification, a plain weave is attached to the internal side of the perforated plate. The aperture of each mesh is as follows.

Mesh	Opening (mm)
20	□ 0.996
40	□ 0.442
60	□ 0.301
80	□ 0.206

(Reference) According to the Japan Public Construction Work Standard Specifications (2007 edition), "The mesh shall be 40 mesh or larger for water use (80 mesh or larger if installed ahead of an electromagnetic valve) and 80 mesh or larger for steam use."

(Note 1) A corrosion-resistant sealing material may pass through the screen. If the passage of such materials is not allowed in terms of sanitation or other reasons, please take the appropriate measures such as using a filter in combination with the product.

(Note 2) Note that the following types of piping may cause damage to the screen.

- (1) Increase of pressure loss due to a clogged screen
- (2) Increase of pressure loss due to high flow rate (2 m/sec or higher)
- (3) Vibration or wearing of the screen that is installed just behind an elbow, valve, or pump

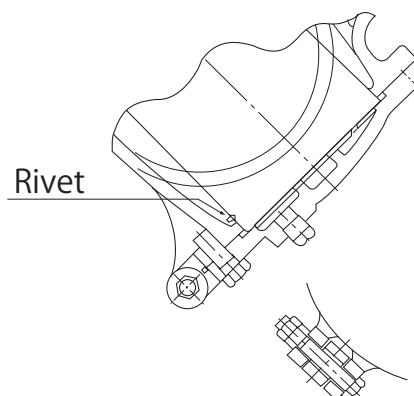
Use the product with pressure loss within 0.1 MPa.

In particular, screens with the high mesh specification are clogged earlier than other types, which may cause the screen to be damaged earlier. Install a pressure gauge ahead of and behind the strainer and be sure to check that the differential pressure is within 0.1 MPa before use. We assume no responsibility for screen damage caused by clogging.

● Characteristics of F10YE and D16Y

1. Drop prevention when taking out the screen

A rivet (the figure below) is mounted on the screen of the F10YE to prevent the screen from dropping. When taking out the screen, first rotate the screen so that the rivet is positioned at the groove of the main unit.



2. Lid retention when taking out the screen

For the F10YE 200A and higher models, the hinge method is employed to retain the heavy lid.

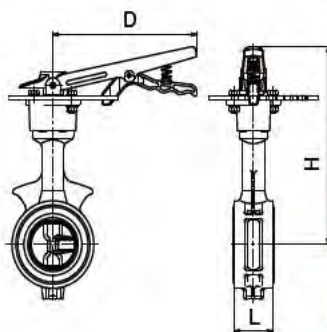
3. Lifting for installation, etc.

For 200A and higher models, a lifting hole is created, making it easy to lift the product.

10K LEVER OPERATED ALUMINIUM BUTTERFLY VALVE

Wafer connection to JIS 10K Flange

W.O.G -20°C to 120°C 1.0MPa, *Continuous service temperature range -10°C to 70°C



Parts	Material	SPEC	
		JIS	ASTM
Body	Aluminum	ADC12	B85-SC102A
Disc	Stainless	SCS14A	A351-Gr. CF8M
Stem	Stainless	SUS420J2	A276-420
Seat Ring	Rubber	EPDM	EPDM

* This valve is not designed to handle toxic gas or flammable gas.

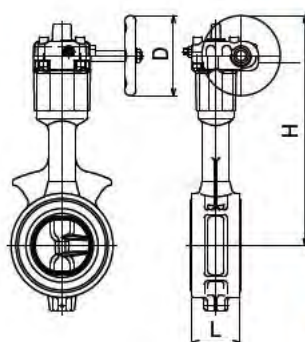
inch	2	2½	3	4	5	6
mm	50	65	80	100	125	150
L	43	46	46	52	56	56
H	206	219	207	232	260	295
D	160	160	160	200	200	300

Fig. YZT

10K GEAR OPERATED ALUMINIUM BUTTERFLY VALVE

Wafer connection to JIS 10K Flange

W.O.G -20°C to 120°C 1.0MPa, *Continuous service temperature range -10°C to 70°C



Parts	Material	SPEC	
		JIS	ASTM
Body	Aluminum	ADC12	B85-SC102A
Disc	Stainless	SCS13A	A351-Gr. CF8
Stem	Stainless	SUS420J2	A276-420
Seat Ring	Rubber	EPDM	EPDM

* This valve is not designed to handle toxic gas or flammable gas.

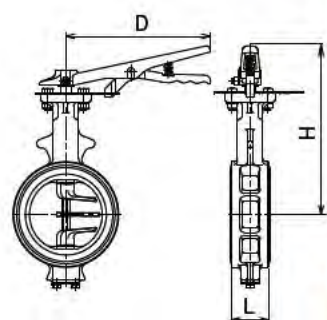
inch	2	2½	3	4	5	6	8	10	12
mm	50	65	80	100	125	150	200	250	300
L	43	46	46	52	56	56	60	68	78
H	201	214	207	218	261	272	319.5	416	448
D	70	70	70	70	100	100	125	200	200

Fig. YZR

10K LEVER OPERATED DUCTILE IRON BUTTERFLY VALVE

Wafer connection to JIS 10K Flange

W.O.G -10°C to 80°C 1.0MPa, *Continuous service temperature range 0°C to 60°C



Parts	Material	SPEC	
		JIS	ASTM
Body	Ductile Iron	FCD450-10	A536-Gr. 65
Disc	Stainless	SCS14A	A351-Gr. CF8M
Stem	Stainless	SUS420J2	A276-420
Seat Ring	Rnbber *1	NBR	NBR

*1. EPDM: Fig. GT-SE

W.O.G (-20°C to 120°C)

Continuous service temperature range (0°C to 70°C)

* This valve is not designed to handle toxic gas or flammable gas.

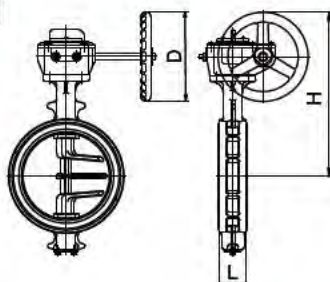
inch	2	2½	3	4	5	6	8
mm	50	65	80	100	125	150	200
L	43	46	46	52	56	56	60
H	204	217	222	233	283	294	324
D	200	200	200	200	300	300	350

Fig. GT-SN/SE

10K GEAR OPERATED DUCTILE IRON BUTTERFLY VALVE

Wafer connection to JIS 10K Flange

W.O.G. -10°C to 80°C 1.0MPa, *Continuous service temperature range 0°C to 60°C



Parts	Material	SPEC	
		JIS	ASTM
Body	Ductile Iron	FCD450-10	A536-Gr. 65
Disc	Stainless	SCS14A *2	A351-Gr. CF8M
Stem	Stainless	SUS420J2	A276-420
Seat Ring	Rubber *1	NBR	NBR

*1. EPDM: Fig. GR-SE

W.O.G. (-20°C to 120°C)

Continuous service temperature range (0°C to 70°C)

*2. Disk SCS13A: Size 14 & larger

* This valve is not designed to handle toxic gas or flammable gas.

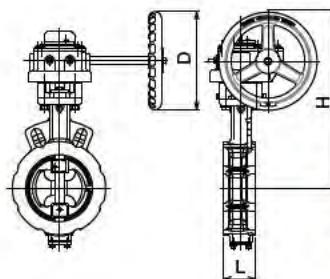
inch	2	2½	3	4	5	6	8	10	12	14	16	18	20	24
mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L	43	46	46	52	56	56	60	68	78	78	102	114	127	154
H	217.5	230.5	235.5	246.5	305.5	316.5	368.5	421.5	460	536	573	603	643	789
D	100	100	100	100	160	160	200	200	200	280	280	280	280	400

Fig. GR-SN/SE

10K GEAR OPERATED CAST STAINLESS STEEL BUTTERFLY VALVE

Wafer connection to JIS 10K Flange

Please see the following page for pressure and temperature rating.



Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Disc	Stainless	SCS13A	A351-Gr. CF8
Stem	Stainless	SUS630	A276-630
Seat Ring	Teflon	RPTFE	RPTFE

* This valve is not designed to handle toxic gas or flammable gas.

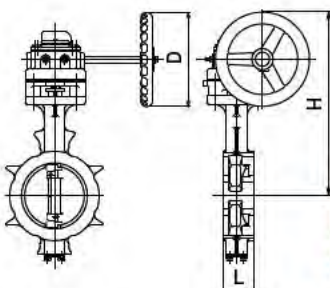
inch	2	2½	3	4	5	6	8	10	12
mm	50	65	80	100	125	150	200	250	300
L	43	46	46	52	56	57	62	70	80
H	220	234	238	288	307	322	380	411	467.5
D	100	100	100	160	160	160	200	200	200

Fig. SYRA-SP

20K GEAR OPERATED CAST STAINLESS STEEL BUTTERFLY VALVE

Wafer connection to JIS 20K Flange

Please see the following page for pressure and temperature rating.



Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Disc	Stainless	SCS13A	A351-Gr. CF8
Stem	Stainless	SUS329J1	A276-329
Seat Ring	Teflon	RPTFE	RPTFE

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2½	3	4	5	6	8	10	12
mm	50	65	80	100	125	150	200	250	300
L	43	46	46	52	56	57	62	70	80
H	231	244	288	311	326	383	413	513	542
D	100	100	160	160	160	200	200	280	280

Fig. SYR-SP

● Piping Bolt

YZT・YZR・GT-SN/SE・GR-SN/SE

Size		JIS 5K				JIS 10K			
		Hexagon head bolt/nut							
A	B	No.	M	L	S	No.	M	L	S
50	2	4	M12	90	30	4	M16	100	40
65	2½	4	M12	100	30	4	M16	110	40
80	3	4	M16	100	40	8	M16	110	40
100	4	8	M16	110	40	8	M16	120	40
125	5	8	M16	110	40	8	M20	130	50
150	6	8	M16	120	40	8	M20	130	50
200	8	8	M20	130	50	12	M20	140	50
250	10	12	M20	140	50	12	M22	150	60
300	12	12	M20	150	50	16	M22	160	60

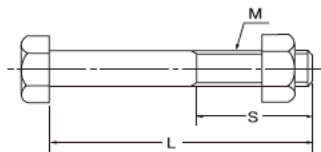
*Gasket is unnecessary.

GR-SN/SE

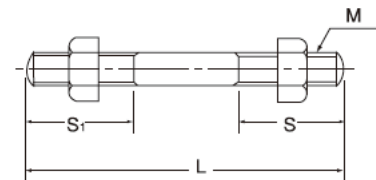
Size		JIS 5K				JIS 10K			
		Stud bolt							
A	B	No.	M	L	S	No.	M	L	S
350	14	12	22	185	45	16	22	185	45
400	16	16	22	205	45	16	24	220	50
450	18	16	22	225	45	20	24	230	50
500	20	20	22	230	45	20	24	245	50
600	24	20	24	275	50	20	30	290	60

*Gasket is unnecessary.

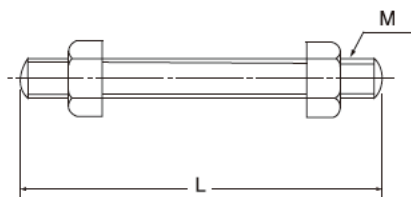
Hexagon head bolt



Studs bolt



Long bolt/nut



B10WC・F10WC・D20WC

Size		JIS 10K				JIS 20K			
		Hexagon head bolt/nut							
		No.	M	L	S	No.	M	L	S
A	B	No.	M	L	S	No.	M	L	S
50	2	4	M16	110	38	8	M16	120	38
65	2½	4	M16	120	38	8	M16	130	44
80	3	8	M16	120	38	8	M20	140	52
100	4	8	M16	130	44	8	M20	140	52
125	5	8	M20	140	52	8	M22	170	56
150	6	8	M20	150	52	12	M22	180	56
200	8	12	M20	170	52	12	M22	220	75
250	10	12	M22	190	56	12	M24	240	75
300	12	16	M22	220	56	16	M24	290	75

*Gasket is necessary.

S10WC

Size		S10WC				
		Hexagon head bolt/nut				
A	B	No.	M	L	S	S1
50	2	4	M16	120	38	38
65	2½	4	M16	130	38	38
80	3	8	M16	130	44	44
100	4	8	M16	130	44	44
125	5	8	M20	160	52	52
150	6	8	M20	170	52	52
200	8	12	M20	200	52	52
250	10	12	M22	230	69	69
300	12	16	M22	260	69	69

*Gasket is necessary.

SYRA-SP・SYR-SP

Size	SYR-SP								
	SYRA-SP						-		
	JIS 5K			JIS 10K			JIS 16K/20K		
	Long bolt/nut			Long bolt/nut			Long bolt/nut		
	No.	M	L	No.	M	L	No.	M	L
50	4	M12	120	4	M16	130	8	M16	130
65	4	M12	120	4	M16	145	8	M16	145
80	4	M16	130	8	M16	145	8	M20	170
100	8	M16	145	8	M16	145	8	M20	170
125	8	M16	145	8	M20	170	8	M22	190
150	8	M16	145	8	M20	170	12	M22	190
200	8	M20	170	12	M20	170	12	M22	190
250	12	M20	190	12	M22	190	-	-	-
300	12	M20	190	16	M22	190	-	-	-

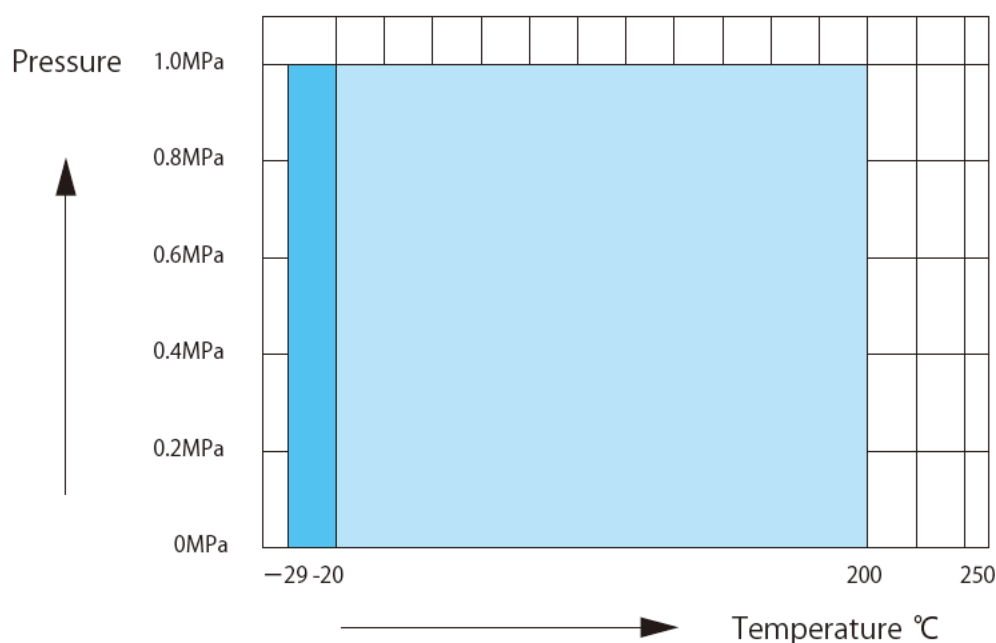
*Long bolts and nuts are recommended to prevent one-sided tightening during installation. Please contact us when using hexagon bolts.

*A piping gasket is required, but do not use a rubber gasket.

*The bolt length shown in this table corresponds to the steel flange thickness of JIS. (For the 16K flange, the protruding portion is greater than the values in the table because the table shows the dimensions for the 20K flange.)

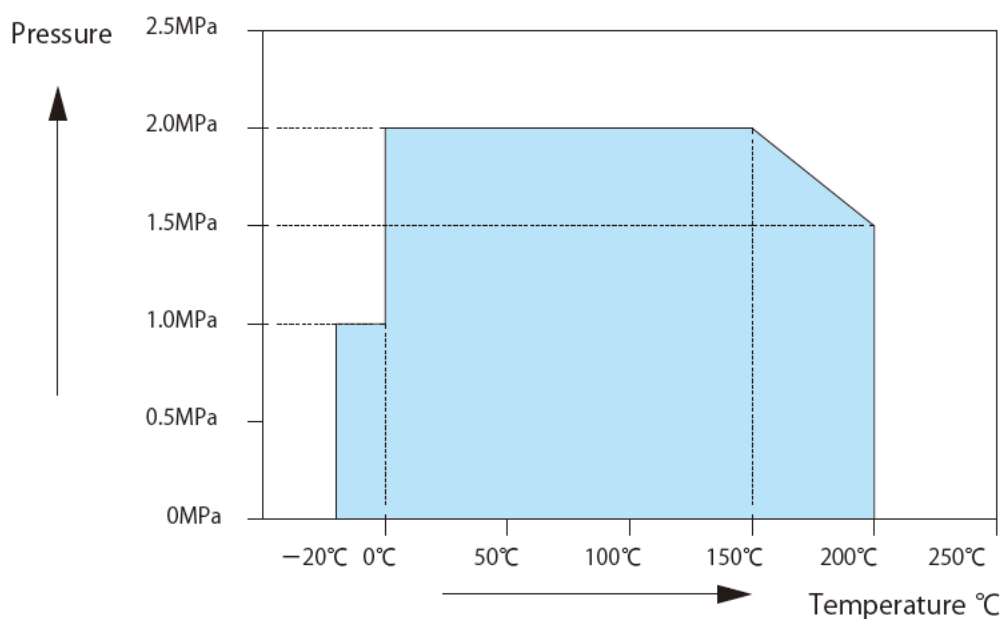
Pressure and temperature rating

● SYRA-SP (Stainless steel Butterfly valve 10K)



*Within the above usage range (blue part), it can be used regardless of the type of fluid except for some parts. (Excludes corrosive fluids, flammable fluids and poisons.)

● SYR-SP (Stainless steel Butterfly valve 20K)



*Within the above usage range (blue part), it can be used regardless of the type of fluid except for some parts. (Excludes corrosive fluids, flammable fluids and poisons.)

10K DUCTILE IRON GATE VALVE

Screwed Bonnet, Rising Stem
Threaded ends to JIS B0203(BS21)

W.O.G, Saturated steam 220°C 1.0MPa, Water, non-shock 120°C 1.4MPa

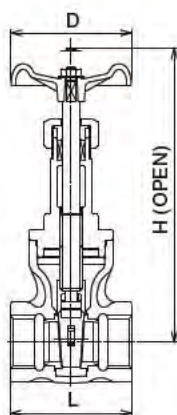


Fig. D10SGS

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Bonnet	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Stem	Stainless	SUS403	A276-403
Disc	Stainless	SCS1	A217-Gr. CA15
Packing	Non-Asbestos	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	61	71	75	86	96	106
H	153.5	174	199.5	232	271	310
D	70	80	90	100	125	140

10K DUCTILE IRON GATE VALVE

Screwed Bonnet, Rising Stem
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 1.2MPa, Water, non-shock 120°C 1.4MPa

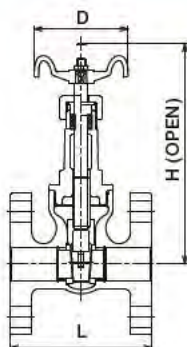


Fig. D10GB

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Bonnet	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Stem	Stainless	SUS403	A276-403
Disc	Stainless	SCS1	A217-Gr. CA15
Packing	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	90	100	110	120	130	140
H	153	176	203	238	278	319
D	70	80	90	100	125	140

10K DUCTILE IRON GATE VALVE

Bolted Bonnet, Rising Stem
Outside Screw and Yoke
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 1.2MPa, Water, non-shock 120°C 1.4MPa

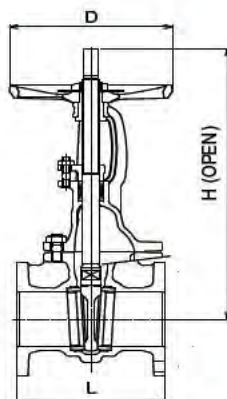


Fig. D10GOH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Bonnet	Cast Ductile Iron	FCD-S	A395
Stem	Stainless	SUS403	A276-403
Disc	Stainless *1	SCS1	A217-Gr. CA15
Packing	Graphite	Commercial	Commercial
Gasket	Graphite	Commercial	Commercial

*1. Stainless SUS403: Size 3 & larger

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2 1/2	3	4	5	6	8	10	12
mm	50	65	80	100	125	150	200	250	300
L	178	190	203	229	254	267	292	330	356
H	360	425	480	580	675	780	985	1195	1410
D	180	180	224	250	300	300	315	450	560

16K DUCTILE IRON GATE VALVE

Union Bonnet, Rising Stem
Threaded ends to JIS B0203(BS21)

W.O.G, Saturated steam 220°C 2.0MPa, Water, non-shock 120°C 2.2 MPa

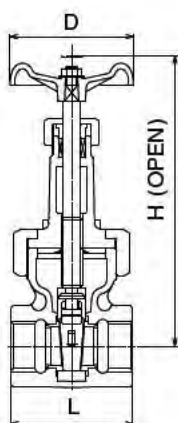


Fig. D16SG

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Bonnet	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Stem	Stainless	SUS403	A276-403
Disc	Stainless	SCS1	A217-Gr. CA15
Packing	Non-Asbestos	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	65	76	80	91	101	111
H	162	185	212	245	285	331
D	70	80	90	100	125	140

16K DUCTILE IRON GATE VALVE

Bolted Bonnet, Rising Stem
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 2.0MPa, Water, non-shock 120°C 2.2MPa

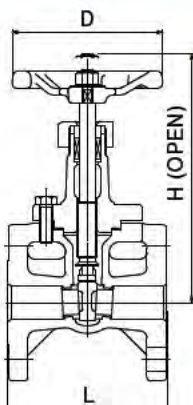


Fig. D16GH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Bonnet	Cast Ductile Iron	FCD-S	A395
Stem	Stainless	SUS403	A276-403
Disc	Stainless	SCS1	A217-Gr. CA15
Packing	Graphite	Commercial	Commercial
Gasket	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	108	117	127	140	165	178
H	172	184	213	232	264	298
D	80	100	120	120	140	140

16K DUCTILE IRON GATE VALVE

Bolted Bonnet, Rising Stem
Outside Screw and Yoke
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 2.0MPa, Water, non-shock 120°C 2.2MPa

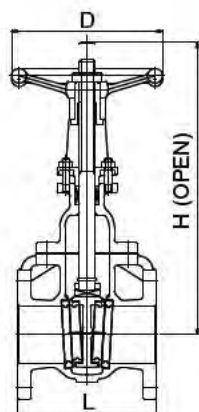


Fig. D16G

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Bonnet	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Stem	Stainless	SUS403	A276-403
Disc	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Packing	Graphite	Commercial	Commercial
Gasket	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2 1/2	3	4	5	6
mm	50	65	80	100	125	150
L	178	190	203	229	254	267
H	394.5	410	466	589	673	765
D	180	180	200	250	280	300

BRONZE

BRASS

CAST IRON

BUTTERFLY

DUCTILE IRON

STAINLESS

AUTOMATIC

PRICE

APPENDIX

16K DUCTILE IRON GATE VALVE

Bolted Bonnet, Rising Stem
Outside Screw and Yoke
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 2.0MPa, Water, non-shock 120°C 2.2MPa

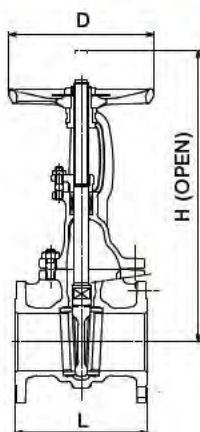


Fig. D16GOH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Bonnet	Cast Ductile Iron	FCD-S	A395
Stem	Stainless	SUS403	A276-403
Disc	Stainless	SUS403	A276-403
Packing	Graphite	Commercial	Commercial
Gasket	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	8	10	12
mm	200	250	300
L	292	330	356
H	985	1195	1410
D	315	450	560

20K DUCTILE IRON GATE VALVE

Bolted Bonnet, Rising Stem
Threaded ends to JIS B0203(BS21)

W.O.G, Saturated steam 220°C 2.5MPa, Water, non-shock 120°C 2.8MPa

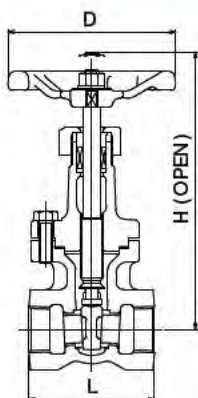


Fig. D20SGH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Bonnet	Cast Ductile Iron	FCD-S	A395
Stem	Stainless	SUS403	A276-403
Disc	Stainless	SCS1	A217-Gr. CA15
Packing	Graphite	Commercial	Commercial
Gasket	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	70	80	90	100	110	120
H	172	184	213	232	264	298
D	80	100	120	120	140	140

20K DUCTILE IRON GATE VALVE

Bolted Bonnet, Rising Stem
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 2.5MPa, Water, non-shock 120°C 2.8MPa

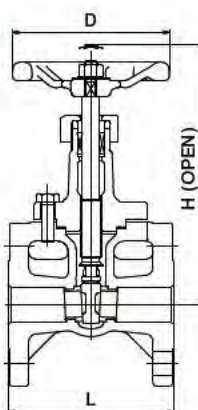


Fig. D20GH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Bonnet	Cast Ductile Iron	FCD-S	A395
Stem	Stainless	SUS403	A276-403
Disc	Stainless	SCS1	A217-Gr. CA15
Packing	Graphite	Commercial	Commercial
Gasket	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	108	117	127	140	165	178
H	172	184	213	232	264	298
D	80	100	120	120	140	140

20K DUCTILE IRON GATE VALVE

Bolted Bonnet, Rising Stem
Outside Screw and Yoke
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 2.5MPa, Water, non-shock 120°C 2.8MPa

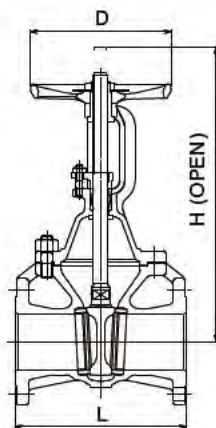


Fig. D20GOH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Bonnet	Cast Ductile Iron	FCD-S	A395
Stem	Stainless	SUS403	A276-403
Disc	Stainless	SCS1	A217-Gr. CA15
Packing	Graphite	Commercial	Commercial
Gasket	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2½	3	4	5	6	8	10	12
mm	50	65	80	100	125	150	200	250	300
L	216	241	283	305	381	403	419	457	502
H	383	442	502	591	698	819	1026	1238	1440
D	180	180	224	250	300	315	450	560	630

10K DUCTILE IRON GLOBE VALVE

Screwed Bonnet, Rising Stem
Threaded ends to JIS B0203(BS21)

W.O.G, Saturated steam 220°C 1.0MPa, Water, non-shock 120°C 1.4MPa

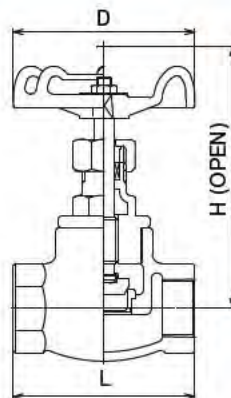


Fig. D10SS

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Bonnet	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Stem	Stainless	SUS403	A276-403
Disc	Stainless	SUS403	A276-403
Packing	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	½	¾	1	1¼	1½	2
mm	15	20	25	32	40	50
L	65	80	90	105	120	140
H	101	112	135	154	169	195
D	63	70	80	100	100	125

10K DUCTILE IRON GLOBE VALVE

Screwed Bonnet, Rising Stem
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 1.2MPa, Water, non-shock 120°C 1.4MPa

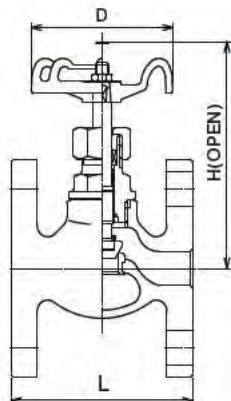


Fig. D10SB

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Bonnet	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Stem	Stainless	SUS403	A276-403
Disc	Stainless	SUS403	A276-403
Packing	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	½	¾	1	1¼	1½	2
mm	15	20	25	32	40	50
L	85	95	110	130	150	180
H	96.5	107.5	136	150	161	195.5
D	63	70	80	100	100	125

10K DUCTILE IRON GLOBE VALVE

Bolted Bonnet, Rising Stem
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 1.2MPa, Water, non-shock 120°C 1.4MPa

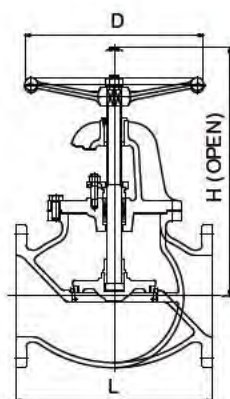


Fig. D10S

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Bonnet	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Stem	Stainless	SUS403	A276-403
Disc	Stainless *1	SCS2	A217-Gr. CA40
Packing	Non-Asbestos	Commercial	Commercial
Gasket	Graphite	Commercial	Commercial

*1. Ductile Iron: Size 3 & larger

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2½	3	4	5	6	8
mm	50	65	80	100	125	150	200
L	203	216	241	292	356	406	495
H	290	309	347	394	436	506	609
D	180	180	224	280	300	355	450

10K DUCTILE IRON GLOBE VALVE

Bolted Bonnet, Rising Stem
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 1.2MPa, Water, non-shock 120°C 1.4MPa

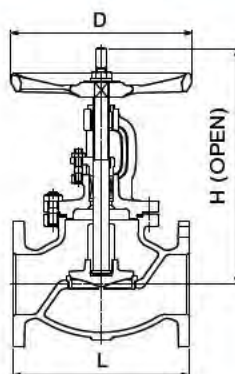


Fig. D10SOH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Bonnet	Cast Ductile Iron	FCD-S	A395
Stem	Stainless	SUS403	A276-403
Disc	Carbon Steel *1	S28C	A576
Packing	Graphite	Commercial	Commercial
Gasket	Graphite	Commercial	Commercial

*1. S25C: Size 12

* This valve is not designed to handle toxic gas or flammable gas.

inch	10	12
mm	250	300
L	622	698
H	690	779
D	450	560

16K DUCTILE IRON GLOBE VALVE

Union Bonnet, Rising Stem
Threaded ends to JIS B0203(BS21)

W.O.G, Saturated steam 220°C 2.0MPa, Water, non-shock 120°C 2.2MPa

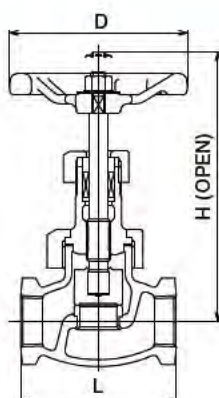


Fig. D16SSH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Bonnet	Cast Ductile Iron	FCD-S	A395
Stem	Stainless	SUS403	A276-403
Disc	Stainless	SUS403	A276-403
Packing	Non-Asbestos	Commercial	Commercial
Gasket	Non-Asbestos	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	½	¾	1	1¼	1½	2
mm	15	20	25	32	40	50
L	75	90	105	120	135	160
H	135	145	170	180	195	225
D	80	100	120	120	140	180

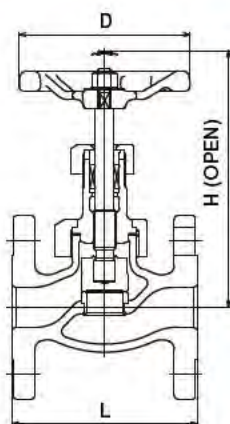
16K DUCTILE IRON GLOBE VALVE

Union Bonnet, Rising Stem
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 2.0MPa, Water, non-shock 120°C 2.2 MPa



Fig. D16SH



Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Bonnet	Cast Ductile Iron	FCD-S	A395
Stem	Stainless	SUS403	A276-403
Disc	Stainless	SUS403	A276-403
Packing	Graphite	Commercial	Commercial
Gasket	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	110	120	130	160	180	230
H	135	145	170	180	195	225
D	80	100	120	120	140	155

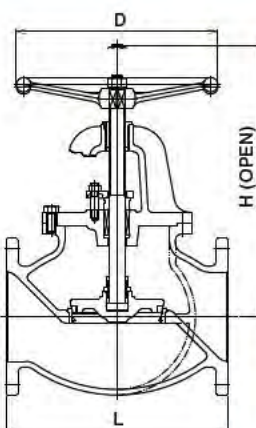
16K DUCTILE IRON GLOBE VALVE

Bolted Bonnet, Rising Stem
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 2.0MPa, Water, non-shock 120°C 2.2 MPa



Fig. D16S



Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Bonnet	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Stem	Stainless	SUS403	A276-403
Disc	Stainless *1	SCS2	A217-Gr. CA40
Packing	Non-Asbestos	Commercial	Commercial
Gasket	Non-Asbestos	Commercial	Commercial

*1. Ductile Iron : Size 3 & larger

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2 1/2	3	4	5	6	8
mm	50	65	80	100	125	150	200
L	203	216	241	292	356	406	495
H	289	309	347	394	439	506	609
D	180	180	224	280	300	355	450

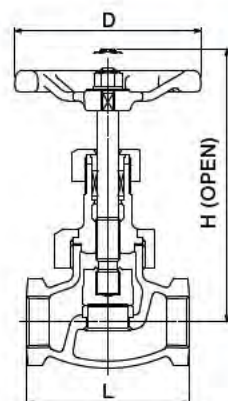
20K DUCTILE IRON GLOBE VALVE

Union Bonnet, Rising Stem
Threaded ends to JIS B0203(BS21)

W.O.G, Saturated steam 220°C 2.5MPa, Water, non-shock 120°C 2.8 MPa



Fig. D20SSH



Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Bonnet	Cast Ductile Iron	FCD-S	A395
Stem	Stainless	SUS403	A276-403
Disc	Stainless	SUS403	A276-403
Packing	Graphite	Commercial	Commercial
Gasket	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	75	90	105	120	135	160
H	135	145	170	180	195	225
D	80	100	120	120	140	180

BRONZE

BRASS

CAST IRON

BUTTERFLY

DUCTILE IRON

STAINLESS

AUTOMATIC

PRICE

APPENDIX

20K DUCTILE IRON GLOBE VALVE

Union Bonnet, Rising Stem
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 2.5MPa, Water, non-shock 120°C 2.8MPa

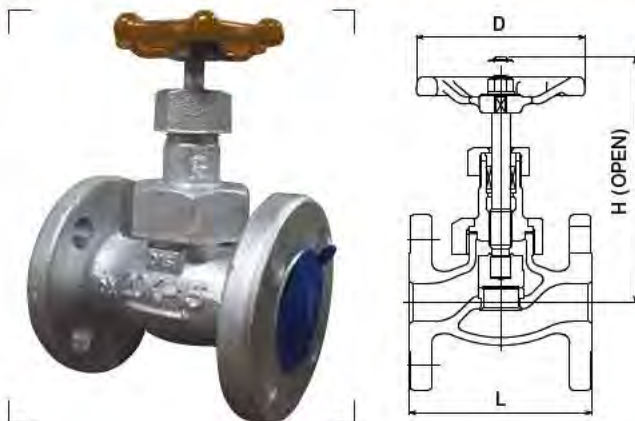


Fig. D20SH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Bonnet	Cast Ductile Iron	FCD-S	A395
Stem	Stainless	SUS403	A276-403
Disc	Stainless	SUS403	A276-403
Packing	Graphite	Commercial	Commercial
Gasket	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	110	120	130	160	180	230
H	135	145	170	180	195	225
D	80	100	120	120	140	180

20K DUCTILE IRON GLOBE VALVE

Bolted Bonnet, Rising Stem
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 2.5MPa, Water, non-shock 120°C 2.8MPa

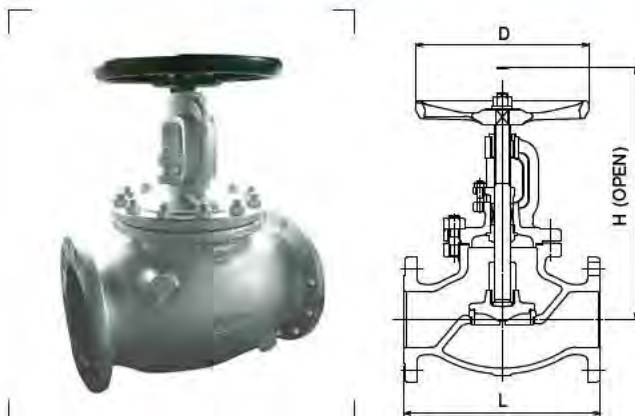


Fig. D20SOH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Bonnet	Cast Ductile Iron	FCD-S	A395
Stem	Stainless	SUS403	A276-403
Disc	Stainless *1	SUS403	A276-403
Packing	Graphite	Commercial	Commercial
Gasket	Graphite	Commercial	Commercial

*1. S25C; Size 2-1/2 & larger

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2 1/2	3	4	5	6	8
mm	50	65	80	100	125	150	200
L	267	292	318	356	400	444	559
H	329	355	390	445	515	595	685
D	224	250	300	315	355	400	450

10K DUCTILE IRON LIFT CHECK VALVE

Screwed Cap
Threaded ends to JIS B0203 (BS21)

W.O.G, Saturated steam 220°C 1.0MPa, Water, non-shock 120°C 1.4 MPa

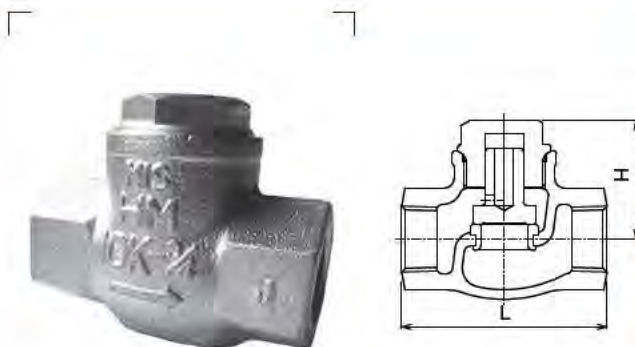


Fig. D10SLCH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCMB350-10	A47
Cap	Stainless	SUS403	A276-403
Disc	Stainless	SUS403	A276-403

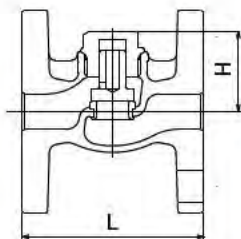
* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	65	80	90	105	120	140
H	37.5	43.5	47.5	54	62	70.5

10K DUCTILE IRON LIFT CHECK VALVE

Screwed Cap
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 1.0MPa, Water, non-shock 120°C 1.4MPa



Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Cap	Stainless	SUS403	A276-403
Disc	Stainless	SUS403	A276-403

* This valve is not designed to handle toxic gas or flammable gas.

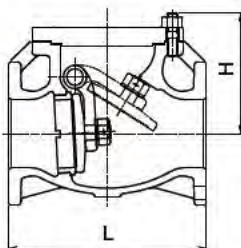
inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	85	95	110	130	150	180
H	37.5	43.5	47.5	54	62	70.5

Fig. D10LCH

10K DUCTILE IRON SWING CHECK VALVE

Bolted Cover
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 1.2MPa, Water, non-shock 120°C 1.4MPa



Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Cover	Carbon Steel *1	SS400	A307-Gr. A
Disc	Stainless	SUS403	A276-403
Body Seat Ring	Stainless *1	SUS403	A276-403
Hinge Pin	Stainless	SUS403	A276-403
Gasket	Graphite	Commercial	Commercial

*1. S25C+13Cr: Size 5 & larger

* This valve is not designed to handle toxic gas or flammable gas.

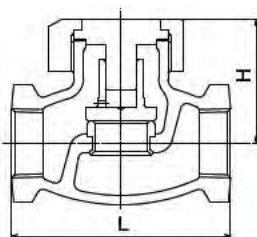
inch	2	2 1/2	3	4	5	6	8	10	12
mm	50	65	80	100	125	150	200	250	300
L	203	216	241	292	356	406	495	622	698
H	126	146	161	176	250	270	330	390	450

Fig. D10COH

16K DUCTILE IRON LIFT CHECK VALVE

Union Cover
Threaded ends to JIS B0203(BS21)

W.O.G, Saturated steam 220°C 2.0MPa, Water, non-shock 120°C 2.2MPa



Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Disc	Stainless	SUS403	A276-403
Cover	Stainless	SCS1	A217-Gr. CA15
Gasket	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	75	90	105	120	135	160
H	49	51	58	66	75	86

Fig. D16SLCH

BRONZE

BRASS

CAST IRON

BUTTERFLY

DUCTILE IRON

STAINLESS

AUTOMATIC

PRICE

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16K DUCTILE IRON LIFT CHECK VALVE

Union Cover
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 2.0MPa, Water, non-shock 120°C 2.2MPa

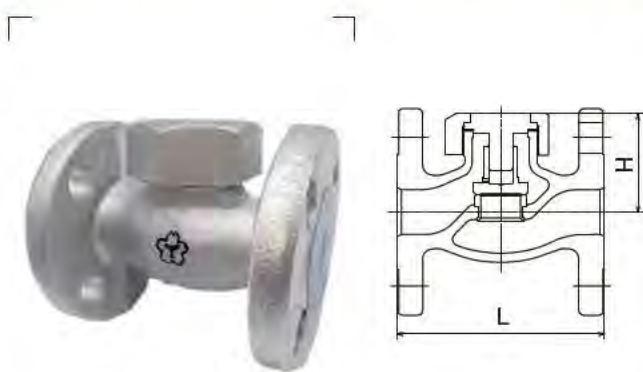


Fig. D16LCH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Disc	Stainless	SUS403	A276-403
Cover	Stainless	SCS1	A217-Gr. CA15
Gasket	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	110	120	130	160	180	230
H	49	51	58	66	75	86

16K DUCTILE IRON SWING CHECK VALVE

Bolted Cover
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 2.0MPa, Water, non-shock 120°C 2.2MPa

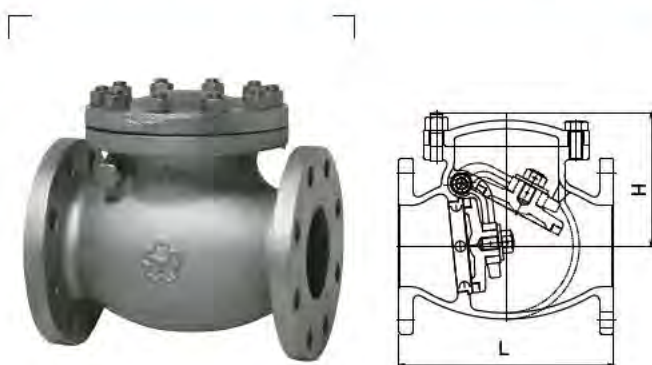


Fig. D16C

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Disc	Stainless *1	SUS403	A276-403
Cover	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Hinge Pin	Stainless	SUS403	A276-403
Gasket	Non-Asbestos	Commercial	Commercial

*1. Cast Ductile Iron : Size 6 & larger

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2 1/2	3	4	5	6	8
mm	50	65	80	100	125	150	200
L	203	216	241	292	330	356	495
H	127	138	160	178	205	230	330

20K DUCTILE IRON LIFT CHECK VALVE

Union Cover
Threaded ends to JIS B0203(BS21)

W.O.G, Saturated steam 220°C 2.5MPa, Water, non-shock 120°C 2.8MPa

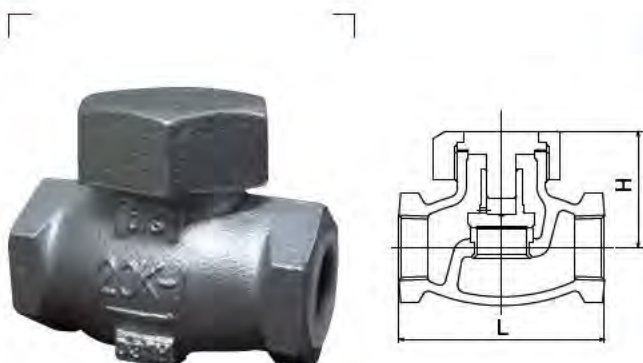


Fig. D20SLCH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Disc	Stainless	SUS403	A276-403
Cap	Stainless	SCS1	A217-Gr. CA15
Gasket	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	75	90	105	120	135	160
H	49	51	58	66	75	86

20K DUCTILE IRON LIFT CHECK VALVE

Union Cover
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 2.5MPa, Water, non-shock 120°C 2.8MPa

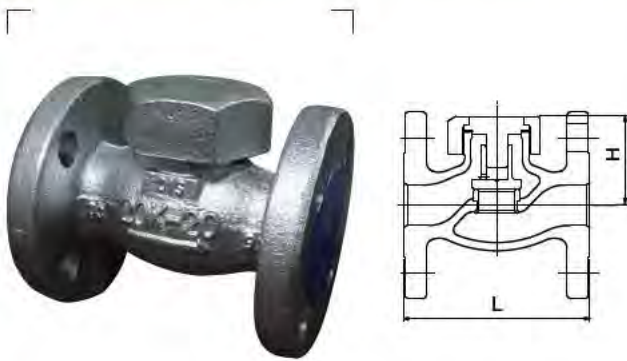


Fig. D20LCH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Disc	Stainless	SUS403	A276-403
Cover	Stainless	SCS1	A217-Gr. CA15
Gasket	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	110	120	130	160	180	230
H	49	51	58	66	75	86

20K DUCTILE IRON SWING CHECK VALVE

Bolted Cover
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 2.5MPa, Water, non-shock 120°C 2.8MPa

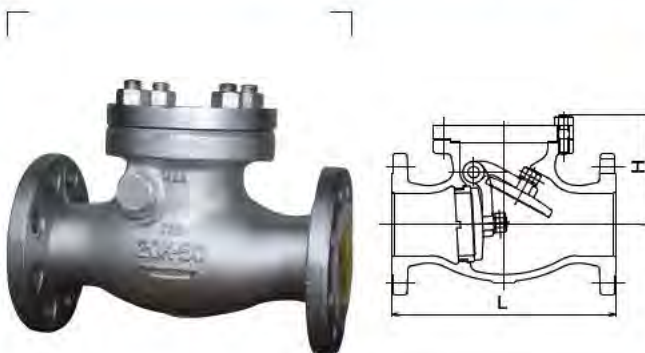


Fig. D20COH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD450-10	A307-Gr. A
Disc	Carbon Steel *1	S28C	A576
Cover	Carbon Steel	SS400	A536-Gr. 65
Hinge Pin	Stainless	SUS403	A276-403
Gasket	Graphite	Commercial	Commercial

*1. S28C+13Cr

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2 1/2	3	4	5	6	8	10	12
mm	50	65	80	100	125	150	200	250	300
L	267	292	318	356	400	444	533	622	711
H	140	150	160	175	215	235	275	420	494

20K DUCTILE IRON DUAL PLATE WAFER CHECK VALVE

Water Hammer Absorption Type
with By-pass
Wafer connection to JIS 10K Flange

Water, pulsating flow 100°C 2.0MPa, Air 100°C 1.0MPa, Water, non-shock 100°C 2.8MPa

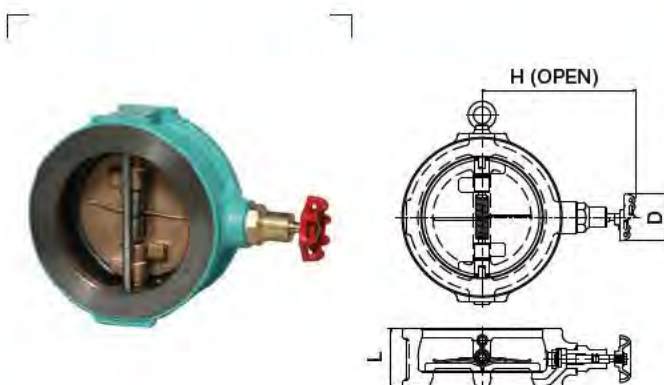


Fig. D20WC

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Plate	Bronze *1	CAC406	B62-C83600
Spring	Stainless	SUS304-WPB	A276-304
Bonnet	Brass	C3604B	B16-C36000
Stem	Brass	C3604B	B16-C36000
Seat	Rubber	EPDM	EPDM

*1. CAC703: Size 8 & larger

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2 1/2	3	4	5	6	8	10
mm	50	65	80	100	125	150	200	250
L	54	60	67	67	83	95	127	140
H	132.5	146.5	153.5	166.5	180.5	205.5	231.5	264
D	55	55	55	55	55	55	55	55

BRONZE

BRASS

CAST IRON

BUTTERFLY

DUCTILE IRON

STAINLESS

AUTOMATIC

PRICE

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10K DUCTILE IRON Y-TYPE STRAINER

Screwed Cap
Threaded ends to JIS B0203 (BS21)

W.O.G, Saturated steam 220°C 1.0MPa, Water, non-shock 120°C 1.4MPa

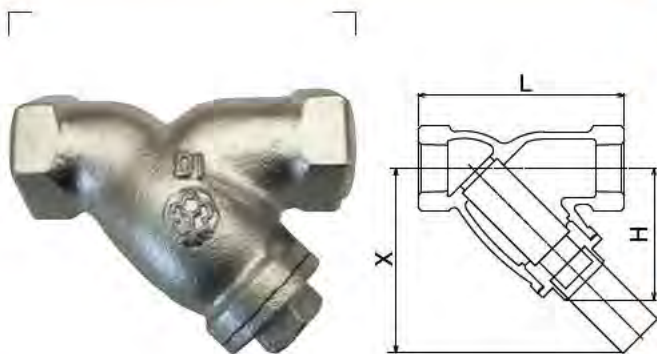


Fig. D10SY

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Cap	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Screen	Stainless	SUS304	A276-304
Gasket	Non-Asbestos	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	85	100	115	135	150	180
H	60	65	75	90	100	115
X	83.9	95.4	116.9	132.9	148.1	175.9

10K DUCTILE IRON Y-TYPE STRAINER

Bolted Cover
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 1.2MPa, Water, non-shock 120°C 1.4MPa

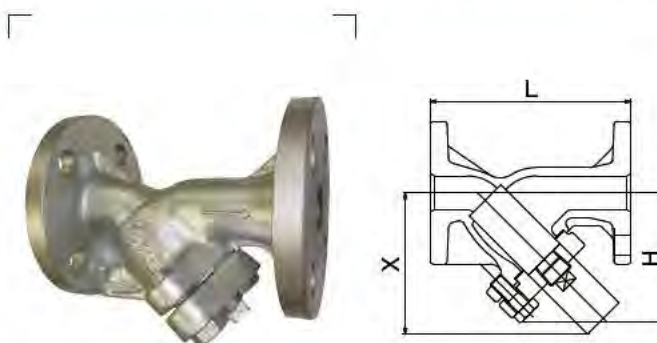


Fig. D10YH

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Cover	Cast Ductile Iron	FCD-S	A395
Screen	Stainless	SUS304	A276-304
Gasket	Non-Asbestos	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2
mm	15	20	25	32	40
L	130	140	160	190	210
H	68	77	91	137	154
X	80	90	107	137	153

10K DUCTILE IRON Y-TYPE STRAINER

Bolted Cover
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 1.2MPa, Water, non-shock 120°C 1.4MPa



Fig. D10YA

Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Cover	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Screen	Stainless	SUS304-CP	A276-304
Gasket	Non-Asbestos	Commercial	Commercial

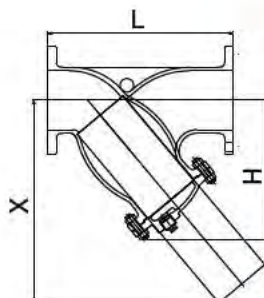
* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2 1/2	3	4	5	6
mm	50	65	80	100	125	150
L	240	280	320	350	410	470
H	150	186.5	218.5	245	294	346
X	195	270	323	347	425	510

10K DUCTILE IRON Y-TYPE STRAINER

Bolted Cover
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 1.2MPa, Water, non-shock 120°C 1.4MPa



Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Cover	Cast Ductile Iron	FCD-S	A395
Screen	Stainless	SUS304	A276-304
Gasket	Non-Asbestos	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

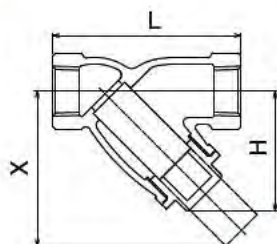
inch	8	10	12
mm	200	250	300
L	600	730	850
H	441	510	565
X	640	760	845

Fig. D10YOH

16K DUCTILE IRON Y-TYPE STRAINER

Screwed Cap
Threaded ends to JIS B0203(BS21)

W.O.G, Saturated steam 220°C 2.0MPa, Water, non-shock 120°C 2.2MPa



Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Cap	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Screen	Stainless	SUS304	A276-304
Gasket	Non-Asbestos	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

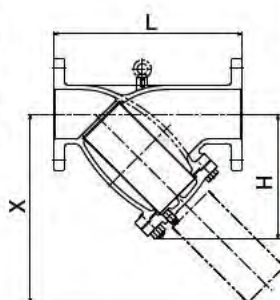
inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	85	100	115	135	150	180
H	60	65	75	90	100	115
X	83.9	95.4	116.9	132.9	148.1	175.9

Fig. D16SY

16K DUCTILE IRON Y-TYPE STRAINER

Bolted Cover
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 2.0MPa, Water, non-shock 120°C 2.2MPa



Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Cover	Cast Ductile Iron	FCD450-10	A536-Gr. 65
Screen	Stainless	SUS304-CP	A276-304
Gasket	Non-Asbestos	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10
mm	20	25	32	40	50	65	80	100	125	150	200	250
L	140	155	180	195	240	280	320	380	440	520	620	760
H	66	78.5	93.5	106	154	173	206	251	310	361	465	565
X	93	112	137	158	230	258	313	380	476	563	740	857

Fig. D16Y

BRONZE

BRASS

CAST IRON

BUTTERFLY

DUCTILE IRON

STAINLESS

AUTOMATIC

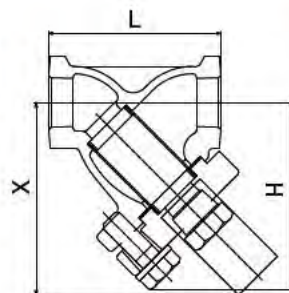
PRICE

APPENDIX

20K DUCTILE IRON Y-TYPE STRAINER

Bolted Cover
Threaded ends to JIS B0203(BS21)

W.O.G, Saturated steam 220°C 2.5MPa, Water, non-shock 120°C 2.8MPa



Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Cover	Cast Ductile Iron	FCD-S	A395
Screen	Stainless	SUS304	A276-304
Gasket	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

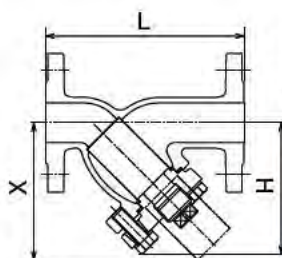
inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	75	90	105	120	135	160
H	70	85	100	145	160	175
X	68	93	112	141	157	200

Fig. D20SYH

20K DUCTILE IRON Y-TYPE STRAINER

Bolted Cover
Flanged ends to JIS B2220

W.O.G, Saturated steam 220°C 2.5MPa, Water, non-shock 120°C 2.8MPa



Parts	Material	SPEC	
		JIS	ASTM
Body	Cast Ductile Iron	FCD-S	A395
Cover	Cast Ductile Iron	FCD-S	A395
Screen	Stainless	SUS304	A276-304
Gasket	Non-Asbestos	Commercial	Commercial

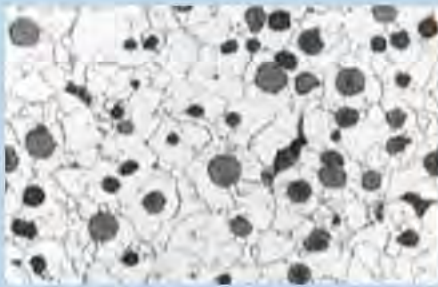
* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	125	140	160	185	200	250	305	360	415	465	515	620	760	870
H	65	70	85	124	135	163	222	254	294	335	382	442	548	654
X	74	85	105	126	139	172	299	345	398	457	508	570	733	895

Fig. D20Y

● Characteristics of Ductile Cast Iron

Ductile iron, also known as ductile cast iron, nodular cast iron, spheroidal graphite iron is a type of graphite-rich cast iron. While most varieties of cast iron are weak in tension and brittle, ductile iron has excellent corrosion resistance, tensile strength, and yield strength due to its nodular graphite inclusions. Unlike cast iron, ductile iron does not break when it is bent, so it is more suited for high demand applications. And while it is cast iron, it has strength comparable to cast steel, but it also has excellent castability and machinability, so it can be said to be an extremely suitable valve material. Demand for ductile valves has been steadily increasing in recent years because they have a wide working pressure and temperature range. Moreover, they are far more economical than cast steel and stainless steel valves. Ductile valves made by Yamato valve have been widely used in industrial fields such as steam, oil, and water since 1976.



Ductile iron



Malleable iron



Gray iron

● Application

Ductile iron valves are high mechanical shock resistance under high or low temperature. Furthermore, they have better tensile strength and elongation characteristics than those of ordinary gray iron valves.

Ductile iron valves are highly recommended for the following services and occasionally could be in place of cast steel valves :

- Piping for steam supply.
- Air conditioning and heating system.
- High-pressure gaseous service in general.
- Piping for poisonous gas service.

10K CAST STAINLESS STEEL GATE VALVE

Screwed Bonnet
Non-Rising Stem
Threaded ends to JIS B0203(B921)

W.O.G 120°C 1.4MPa, Saturated steam 150°C 0.4MPa

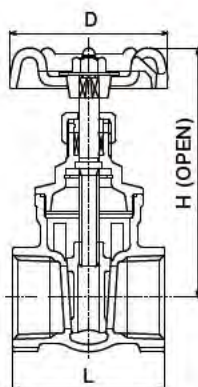


Fig. S10SG

Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Bonnet	Stainless	SCS13A	A351-Gr. CF8
Stem	Stainless	SUS316	A276-316
Disc	Stainless	SCS14A	A351-Gr. CF8M
Packing	Non-Asbestos	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	54	58	66	75	78	87
H	85	95	103	122	136	158
D	55	63	70	80	80	90

10K CAST STAINLESS STEEL GATE VALVE

Screwed Bonnet
Non Rising Stem
Flanged ends to JIS B2220

W.O.G 120°C 1.4MPa, Saturated steam 150°C 0.4MPa

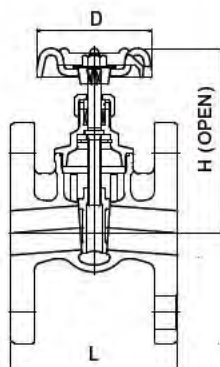


Fig. S10GB

Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Bonnet	Stainless	SCS13A	A351-Gr. CF8
Stem	Stainless	SUS316	A276-316
Disc	Stainless	SCS14A	A351-Gr. CF8M
Packing	Non-Asbestos	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	80	90	100	110	125	140
H	87	98	106	125	139	163
D	55	63	70	80	80	90

10K CAST STAINLESS STEEL GATE VALVE

Bolted Bonnet, Rising Stem
Outside Screw and Yoke
Flanged ends to JIS B2220

W.O.G 180°C 1.0MPa

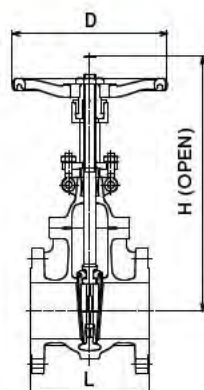


Fig. S10GA

Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Bonnet	Stainless	SCS13A	A351-Gr. CF8
Stem	Stainless	SUS304	A276-304
Disc	Stainless	SCS13A	A351-Gr. CF8
Packing	Graphite	Commercial	Commercial
Gasket	Graphite	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	2 1/2	3	4	5	6
mm	65	80	100	125	150
L	190	203	229	254	267
H	397	447	534	636	703
D	180	200	225	250	270

10K CAST STAINLESS STEEL GLOBE VALVE

Screwed Bonnet, Rising Stem
Threaded ends to JIS B0203(BS21)

W.O.G 120°C 1.4MPa, Saturated steam 150°C 0.4MPa

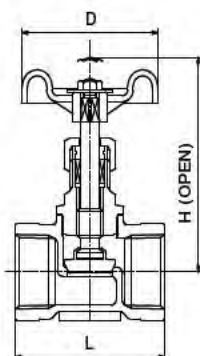


Fig. S10SS

Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Bonnet	Stainless	SCS13A	A351-Gr. CF8
Stem	Stainless	SUS304	A276-304
Disc	Stainless	SUS316	A276-316
Packing	Teflon	PTFE	PTFE

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	52	60	72	81	90	100
H	80	86	93	105	124	138
D	55	63	70	80	90	100

10K CAST STAINLESS STEEL GLOBE VALVE

Screwed Bonnet, Rising Stem
Flanged ends to JIS B2220

W.O.G 180°C 1.0MPa, 120°C 1.4MPa

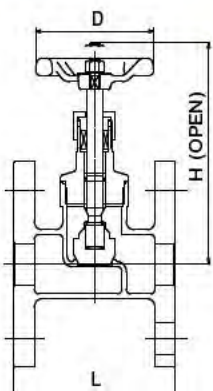


Fig. S10SH

Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Bonnet	Stainless	SCS13A	A351-Gr. CF8
Stem	Stainless	SUS304	A276-304
Disc	Stainless	SUS304	A276-304
Packing	Non-Asbestos	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	85	95	110	130	150	180
H	105	115	135	150	170	190
D	60	80	100	100	100	100

10K CAST STAINLESS STEEL GLOBE VALVE

Bolted Bonnet, Rising Stem
Flanged ends to JIS B2220

W.O.G 180°C 1.28MPa, 120°C 1.4MPa

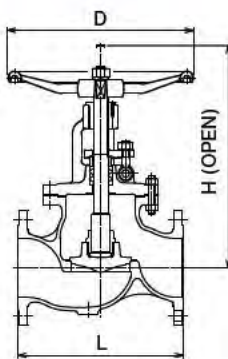


Fig. S10SOH

Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Bonnet	Stainless	SCS13A	A351-Gr. CF8
Stem	Stainless	SUS304	A276-304
Disc	Stainless *1	SUS304	A276-304
Packing	Teflon	PTFE	PTFE
Gasket	Teflon	PTFE	PTFE

*1. SCS13A: Size 5 & larger

* This valve is not designed to handle toxic gas or flammable gas.

inch	2 1/2	3	4	5	6	8
mm	65	80	100	125	150	200
L	216	241	292	356	406	495
H	292	338	388	478	491	634
D	200	250	300	400	400	450

BRONZE

BRASS

CAST IRON

BUTTERFLY

DUCTILE IRON

STAINLESS

AUTOMATIC

PRICE

APPENDIX

10K CAST STAINLESS STEEL SWING CHECK VALVE

Screwed Cap
Threaded ends to JIS B0203(BS21)

W.O.G 120°C 1.4MPa, Saturated steam 150°C 0.4MPa

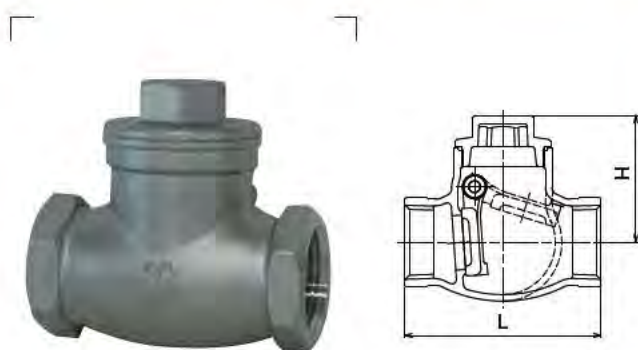


Fig. S10SC

Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Disc	Stainless	SCS13A	A351-Gr. CF8
Cap	Stainless	SCS13A	A351-Gr. CF8
Hinge Pin	Stainless	SUS316	A276-316
Gasket	Teflon	RPTFE	RPTFE

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	65	80	90	105	120	140
H	43.5	49	58	64.5	73.5	86

10K CAST STAINLESS STEEL SWING CHECK VALVE

Screwed Cap
Flanged ends to JIS B2220

W.O.G 180°C 1.0MPa, 120°C 1.4MPa

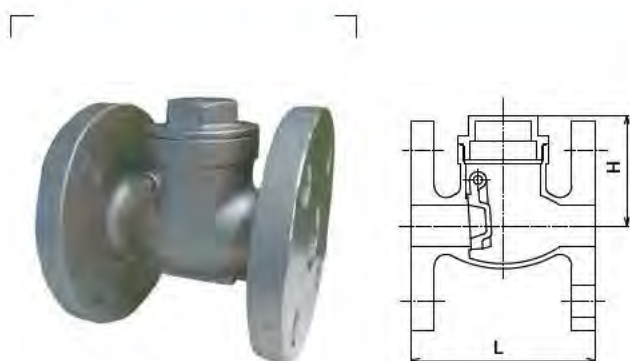


Fig. S10CH

Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Disc	Stainless	SCS13A	A351-Gr. CF8
Cap	Stainless	SCS13A	A351-Gr. CF8
Hinge Pin	Stainless	SUS316	A276-316
Gasket	Teflon	RPTFE	RPTFE

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	85	95	110	130	150	180
H	52	57	62	70	75	80

10K CAST STAINLESS STEEL SWING CHECK VALVE

Bolted Cover
Flanged ends to JIS B2220

W.O.G 180°C 1.28MPa, 120°C 1.4MPa

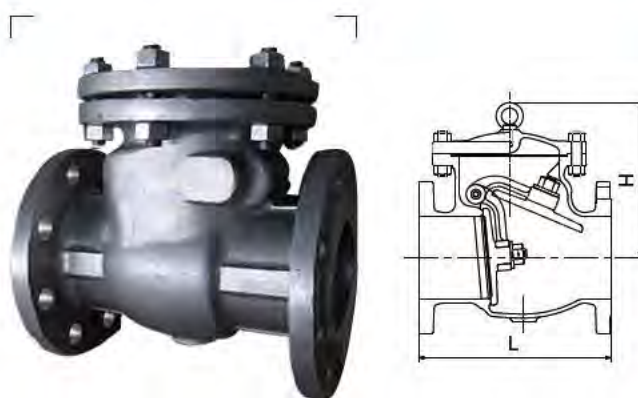


Fig. S10COH

Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Disc	Stainless	SCS13A	A351-Gr. CF8
Cover	Stainless	SCS13A	A351-Gr. CF8
Hinge Pin	Stainless	SUS304	A276-304
Gasket	Teflon	RPTFE	RPTFE

* This valve is not designed to handle toxic gas or flammable gas.

inch	2 1/2	3	4	5	6	8	10	12
mm	65	80	100	125	150	200	250	300
L	216	241	292	330	356	495	622	698
H	148	161	187	261	287	316	393	428

10K CAST STAINLESS STEEL DUAL PLATE WAFER CHECK VALVE

Water Hammer Absorption Type
with By-pass
Water connection to JIS 10K Flange

Water, pulsating flow and Air 100°C 1.0MPa, Water, non-shock 100°C 1.4MPa

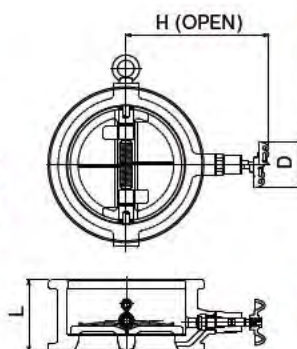


Fig. S10WC

Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Plate*1	Stainless	SCS13A	A351-Gr. CF8
Spring	Stainless	SUS304-WPB	A276-304
Bonnet	Stainless	SUS304	A276-304
Stem	Stainless	SUS304	A276-304
Seat	Rubber *2	EPDM	EPDM

*1. Single plate design: Size 10 & larger

*2. NBR: Size 10 & larger

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2½	3	4	5	6	8
mm	50	65	80	100	125	150	200
L	60	67	73	73	86	98	127
H	128	137	144	157	172	187	215
D	55	55	55	55	55	55	55

10K CAST STAINLESS STEEL Y-TYPE STRAINER

Screwed Cap
Threaded ends to JIS B0203(BS21)

W.O.G 120°C 1.4MPa

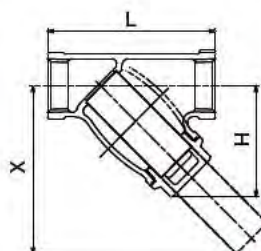


Fig. S10SY

Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Cap	Stainless	SCS13A	A351-Gr. CF8
Screen	Stainless	SUS304	A276-304
Gasket	Teflon	RPTFE	RPTFE

* This valve is not designed to handle toxic gas or flammable gas.

inch	½	¾	1	1¼	1½	2
mm	15	20	25	32	40	50
L	80	93	108	128	143	173
H	50.5	60.5	70	82	93	119
X	73.5	89.5	107	126	143.5	190

10K CAST STAINLESS STEEL Y-TYPE STRAINER

Screwed Cap
Flanged ends to JIS B2220

W.O.G 120°C 1.4MPa

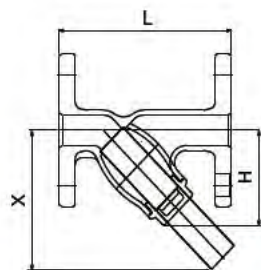


Fig. S10YB

Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Cap	Stainless	SCS13A	A351-Gr. CF8
Screen	Stainless	SUS304	A276-304
Gasket	Teflon	RPTFE	RPTFE

* This valve is not designed to handle toxic gas or flammable gas.

inch	½	¾	1	1¼	1½	2
mm	15	20	25	32	40	50
L	120	130	150	170	190	220
H	54	66	78	90.5	104	133.5
X	77	95	114	134.5	154.5	204.5

BRONZE

BRASS

CAST IRON

BUTTERFLY

DUCTILE IRON

STAINLESS

AUTOMATIC

PRICE

APPENDIX

10K CAST STAINLESS STEEL Y-TYPE STRAINER

Bolted Cover
Flanged ends to JIS B2220

W.O.G 180°C 1.2MPa, 120°C 1.4MPa

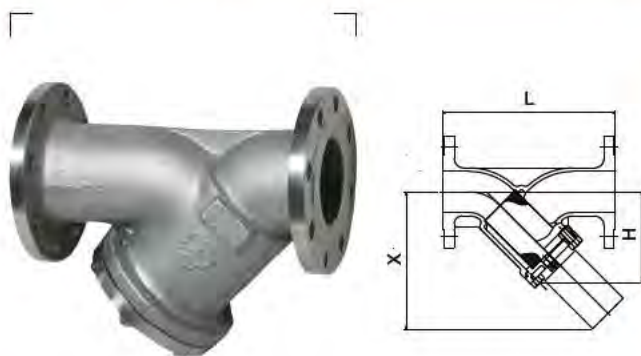


Fig. S10YA

Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Cover	Stainless	SCS13A	A351-Gr. CF8
Screen	Stainless	SUS304	A276-304
Gasket	Non-Asbestos	Commercial	Commercial

* This valve is not designed to handle toxic gas or flammable gas.

inch	2½	3	4	5	6
mm	65	80	100	125	150
L	270	290	350	390	440
H	143	195	221	265	291
X	218	284	326	407	440

CLASS 600 CAST STAINLESS STEEL BALL VALVE REDUCED BORE

One-piece Body
Threaded ends to JIS B0203(BS21)

W.O Ambient temp. 4.2MPa, Air Ambient temp. 1.0MPa, W.O 180°C 1.0MPa

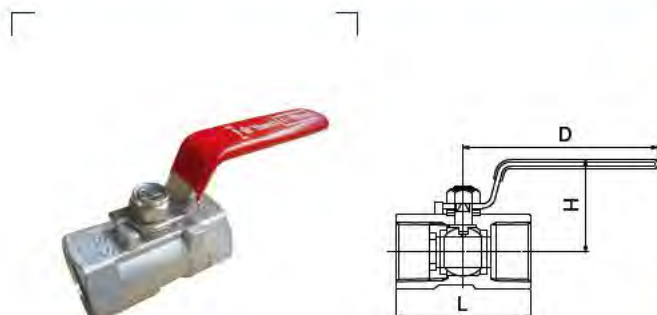


Fig. VU3

Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Stem	Stainless	SUS316	A276-316
Ball	Stainless	SUS316	A276-316
Ball Seat	Teflon	RPTFE	RPTFE
Packing	Teflon	RPTFE	RPTFE

* This valve is not designed to handle toxic gas or flammable gas.

inch	¼	⅜	½	¾	1	1¼	1½	2
mm	8	10	15	20	25	32	40	50
L	39	44	56.5	58.5	71	78	83	100
H	32	35.5	40.5	44	51	56	63	69.5
D	64	63	101	101	106	106	139	139

CLASS 600 CAST STAINLESS STEEL BALL VALVE REDUCED BORE

One-piece Body
Threaded ends to JIS B0203(BS21)

W.O Ambient temp. 4.2MPa, Air Ambient temp. 1.0MPa, W.O 180°C 1.0MPa

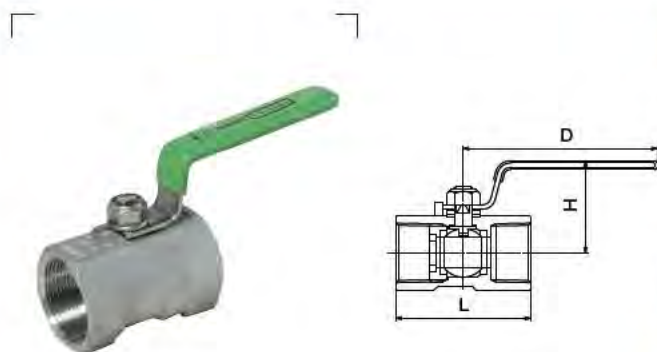


Fig. VU

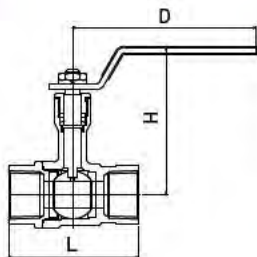
Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS14A	A351-Gr. CF8M
Stem	Stainless	SUS316	A276-316
Ball	Stainless	SUS316	A276-316
Ball Seat	Teflon	RPTFE	RPTFE
Packing	Teflon	RPTFE	RPTFE

* This valve is not designed to handle toxic gas or flammable gas.

inch	¼	⅜	½	¾	1	1¼	1½	2
mm	8	10	15	20	25	32	40	50
L	39	44	56.5	58.5	71	78	83	100
H	32	35.5	40.5	44	51	56	63	69.5
D	64	63	101	101	106	106	139	139

CLASS 1000 CAST STAINLESS STEEL BALL VALVE STANDARD BOREScrewed Body Cap
Threaded ends to JIS B0203(BS21)

W.O Ambient temp. 7.0MPa, W.O 160°C 1.0MPa

**Fig. VUY**

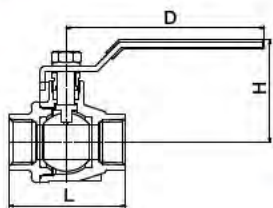
Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Cap	Stainless	SCS13A	A351-Gr. CF8
Stem	Stainless	SUS304	A276-304
Ball	Stainless	SUS304	A276-304
Ball Seat	Teflon	PTFE	PTFE
Packing	Teflon	PTFE	PTFE

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	60	70	80	96	108	124
H	76	80	85	98	106	113
D	100	100	130	130	150	150

10K CAST STAINLESS STEEL BALL VALVE FULL BOREScrewed Cap
Threaded ends to JIS B0203(BS21)

Water 100°C 1.0MPa

**Fig. SVHB**

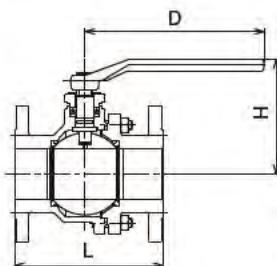
Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS14A	A351-Gr. CF8M
Cap	Stainless	SCS14A	A351-Gr. CF8M
Stem	Stainless	SUS316	A276-316
Ball	Stainless	SUS316	A276-316
Ball Seat	Teflon	RPTFE	RPTFE
Packing	Teflon	PTFE	PTFE

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	68	74	86	100	110	130
H	56	66	80	86	94	101
D	105	112	148	148	184	184

10K CAST STAINLESS STEEL BALL VALVE FULL BOREBolted Body Cap
Flanged ends to JIS B2220

Water, pulsating flow 120°C 1.0 MPa, Water, non-shock 120°C 1.4MPa

**Fig. S10V**

Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Cap	Stainless	SCS13A	A351-Gr. CF8
Stem	Stainless	SUS304	A276-304
Ball	Stainless	SUS304	A276-304
Ball Seat	Teflon	RPTFE	RPTFE
Packing	Teflon	PTFE	PTFE

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8
mm	15	20	25	32	40	50	65	80	100	125	150	200
L	108	117	127	140	165	178	190	203	229	366	394	457
H	77	80	100	105	111	127	147	180	203	301	320	366
D	120	120	180	180	180	230	230	400	400	1000	1000	1400

BRONZE

BRASS

CAST IRON

BUTTERFLY

DUCTILE IRON

STAINLESS

AUTOMATIC

PRICE

APPENDIX

Electric Actuator Series

We respond to various needs for options and special specifications.

DES TYPE

- > Compact size, High power and Low noise
- > Stainless steel exterior bolting
- > Adoption of spur gear which has high reliability and durability in the reduction gear system

Specification		DES			
Voltage(Single-phase)		AC24V	AC100V	AC200V	DC24V
Rated current(A)	AC(50/60Hz)	0.18/0.2	0.06/0.07	0.05/0.06	-
	DC	-			0.1
Valve open/close time	AC(50/60Hz)	24.7s/20s			-
	DC	-			4s
Rated output torque(Nm)		6			
Ambient temp.		-10℃ to 50℃			
IP Code		IP54			
Insulation class		Class E			



DEH TYPE

- > Compact size and High power
- > Stainless steel exterior bolting
- > Space heater contained
- > There are various options available (potentiometer, explosion-proof, etc.)

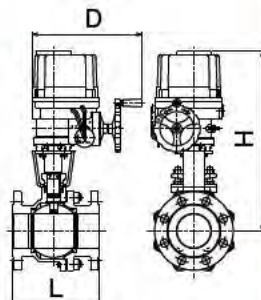
Specification		DEH006	DEH010	DEH020	DEH030	DEH050	DEH060
Voltage	AC100V(50/60Hz)	○	○	○	○	○	○
	AC200V(50/60Hz)	○	○	○	○	○	○
	DC24V	○	○	○	○	-	-
Related current	AC100V(50/60Hz)	0.38/0.39	0.97/0.95	1.37/1.71	1.41/1.92	2.80/2.85	3.04/4.04
	AC200V(50/60Hz)	0.20/0.24	0.52/0.49	0.72/0.86	0.66/1.02	1.34/1.07	1.29/1.47
	DC24V	0.4	0.81	3	3.2	-	-
Valve open/ close time	AC(50/60Hz)	14s/12s	20s/17s	25s/21s	31s/26s	31s/26s	
	DC	10s	10s	14s	19s	-	
Rated output torque(Nm)		58.8	98	196	294	490	588
Power consumption(W)		6	15	40		90	
Number of manual rotations		8	10	11	13.5	13.5	
Ambient temp.		-20℃ to 70℃					
IP Code		IP67					
Insulation class		Class E					
Torque Switch		×		○			
Manual override		Plug	Handwheel				
Cable entries		2×PF1/2					



Please contact us for more information.

10K CAST STAINLESS STEEL BALL VALVE FULL BORE
WITH ELECTRIC ACTUATORON-OFF Type
Flanged ends to JIS B2220

W.O.G 0°C to 120°C 1.0MPa

**Fig. E-SUSF**

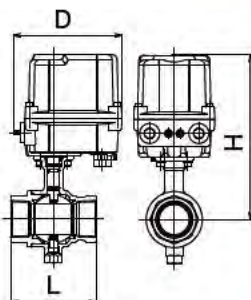
Parts	Material	SPEC	
		JIS	ASTM
Body	Stainless	SCS13A	A351-Gr. CF8
Cap	Stainless	SCS13A	A351-Gr. CF8
Stem	Stainless	SUS304	A276-304
Ball	Stainless	SUS304	A276-304
Ball Seat	Teflon	RPTFE	RPTFE
Packing	Teflon	PTFE	PTFE

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8
mm	15	20	25	32	40	50	65	80	100	125	150	200
L	108	117	127	140	165	178	190	203	229	356	394	457
H	217	219	223	231	236	262	280	423	484	543	576	643
D	141	141	141	141	141	141	141	258	338	368	368	368

10K CAST BRONZE BALL VALVE FULL BORE
WITH ELECTRIC ACTUATORON-OFF Type
Threaded ends to JIS B0203(BS21)

W.O.G 0°C to 80°C 1.0MPa

**Fig. E-BLES**

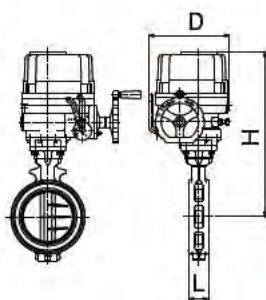
Parts	Material	SPEC	
		JIS	ASTM
Body	Bronze	CAC406	B62-C83600
Cap	Bronze	CAC406	B62-C83600
Stem	Stainless	SUS304	A276-304
Ball	Stainless	SUS304	A276-304
Ball Seat	Teflon	PTFE	PTFE
O-Ring	Rubber	FKM	FKM

* This valve is not designed to handle toxic gas or flammable gas.

inch	1/2	3/4	1	1 1/4	1 1/2	2
mm	15	20	25	32	40	50
L	63	72	84	98	111	132
H	124	129	133	207	214	222
D	95	95	95	130	130	130

10K CAST ALUMINIUM BUTTERFLY VALVE
WITH ELECTRIC ACTUATORON-OFF Type
Wafer connection to JIS 10K Flange

W.O.G -20°C to 120°C 1.0MPa, Continuous service temperature range -10°C to 70°C

**Fig. E-2BYZ**

Parts	Material	SPEC	
		JIS	ASTM
Body	AluminumBronze	ADC12	B85-SC102A
Disc	Stainless	SCS14A	A351-Gr. CF8M
Stem	Stainless	SUS420J2	A276-420
Seat Ring	Rubber	EPDM	EPDM

* This valve is not designed to handle toxic gas or flammable gas.

inch	2	2 1/2	3	4	5	6	8	10	12
mm	50	65	80	100	125	150	200	250	300
L	43	46	46	52	56	56	60	68	78
H	217	284	290	301	443	470	517	584	616
D	130	130	130	130	258	338	368	368	368

BRONZE

BRASS

CAST IRON

BUTTERFLY

DUCTILE IRON

STAINLESS

AUTOMATIC

PRICE

APPENDIX

BRONZE VALVE

Type	Gate Valve		Globe Valve		Check Valve	
Pressure	JIS 10K	PN 16	JIS 10K	Class 100	JIS 10K	Class 125
End Connection	Screw					
Fig	B10G	TIG	B10S	BS	B10C	BC
Dimensions						
1/4 ^B 8 ^A			5,810			
3/8 10	7,650		6,200			
1/2 15	7,660	4,500	7,030	3,240	6,570	4,800
3/4 20	10,700	6,400	9,320	3,670	8,250	6,130
1 25	15,200	8,550	12,900	5,210	12,000	9,320
1 1/4 32	23,000	15,000	24,500	8,030	21,100	13,400
1 1/2 40	32,200	20,900	26,900	11,700	25,500	17,400
2 50	45,600	29,700	43,500	16,800	41,400	28,100
2 1/2 65	90,400			41,100		48,800
3 80	146,000			54,800		65,900
4 100						
5 125						
6 150						
8 200						

*All prices are subject to change without notice.

*Ductile iron is recommended for steam service.

*Please refer page 9 for pressure and temperature rating.

BRONZE VALVE

Type	Check Valve		Y-strainer	Ball Valve		
Pressure	10K	10K	10K	Class 400		
End Connection	Screw	Wafer	Screw			
Fig	B10LC	B10WC	B10YT	VLVS		
Dimensions						
1/2 ^B 15 ^A	4,930		5,110	8,670		
3/4 20	6,870		6,410	11,200		
1 25	10,300		10,100	15,600		
1 1/4 32	14,200		14,600	23,000		
1 1/2 40	19,600		18,200	30,300		
2 50	30,300	81,000	30,300	43,700		
2 1/2 65		103,000	74,900			
3 80		119,000				
4 100		157,000				
5 125		204,000				
6 150		277,000				
8 200		421,000				
10 250						
12 300						

*All prices are subject to change without notice.

*Ductile iron is recommended for steam service.

DIRECT VALVE

Type		Gate Valve					
Pressure		10K	10K	10K	10K		
End Connection		PVC-U Socket	PVC-C Socket	PVC-U Socket			
Fig Dimensions		B10EGN	B10ETGN	B10ESGN	B10EMGN		
1/2 ^B	13 ^A	11,000	12,600	12,600	12,400		
3/4	20	14,100	16,100	16,100	15,700		
1	25	20,300	23,300	23,300	22,500		
1 1/4	32						
1 1/2	40						
2	50						
2 1/2	65						
3	80						
4	100						
5	125						
6	150						
8	200						
10	250						
12	300						

*All prices are subject to change without notice.

BRASS VALVE

Type		Gate Valve	Ball Valve				
Pressure		Class 125	Class 600	Class 600	Class 400	Class 400	
End Connection		Screw					
Fig Dimensions		LIG	VEB	VHB3	VHBL	V2	
1/4 ^B	8 ^A		2,160	3,950			
3/8	10		2,360	3,960		5,770	
1/2	15	3,610	2,550	4,270		6,320	
3/4	20	4,350	2,990	4,930		7,530	
1	25	6,140	4,040	6,660		10,100	
1 1/4	32	8,410	6,210	10,300		15,300	
1 1/2	40	10,500	9,230	13,100		19,000	
2	50	16,000	13,100	18,500		27,900	
2 1/2	65	33,200			64,900		
3	80	45,400			108,000		
4	100						
5	125						
6	150						
8	200						

*All prices are subject to change without notice.

*Brass valves can not be used for steam service.

BRONZE

BRASS

CAST IRON

BUTTERFLY

DUCTILE IRON

STAINLESS

AUTOMATIC

PRICE

APPENDIX

CAST IRON VALVE

Type	Gate Valve	Check Valve	Globe Valve	Check Valve	Y-strainer	Ball Valve
Pressure	JIS 10K	JIS 10K	JIS 10K	10K	10K	10K
End Connection	Flange			Wafer	Flange	
Fig	F10GE	F10CE	F10SE	F10WC	F10YE	F10VE2
1½ ^B 40 ^A			44,300			33,300
2 50	43,600	38,700	50,500	64,800	27,500	40,300
2½ 65	50,500	49,300	60,000	70,400	38,200	66,500
3 80	63,400	59,600	76,900	80,300	46,200	85,100
4 100	90,400	86,500	107,000	97,900	64,400	124,000
5 125	128,000	138,000	164,000	132,000	97,500	234,000
6 150	170,000	179,000	216,000	167,000	138,000	323,000
8 200	278,000	314,000	400,000	273,000	204,000	565,000
10 250	435,000	488,000	707,000	456,000	349,000	
12 300	581,000	916,000	1,030,000	659,000	581,000	
14 350					832,000	
16 400					1,310,000	
18 450						
20 500						

*All prices are subject to change without notice.

*F10VE2: Can not be used for steam service.

BUTTERFLY VALVE

Type	Butterfly Valve							
Pressure	10K	10K	10K	10K	10K	10K	20K	
End Connection	Wafer							
Fig	YZT	YZR	GT-SN	GT-SE	GR-SN	GR-SE	SYRA-SP	SYR-SP
Dimensions			NBR	EPDM	NBR	EPDM		
2 ^B 50 ^A	19,800	25,300	26,700	29,400	46,700	49,300	120,000	140,000
2½ 65	21,600	26,700	28,800	31,800	48,000	51,300	128,000	148,000
3 80	24,800	31,100	32,600	34,700	52,000	56,000	152,000	178,000
4 100	30,800	40,300	40,700	44,600	58,700	62,400	168,000	194,000
5 125	43,400	57,400	55,300	60,000	74,400	79,200	226,000	262,000
6 150	52,900	62,600	64,000	70,700	82,700	89,300	249,000	289,000
8 200		104,000	120,000	132,000	124,000	137,000	326,000	380,000
10 250		206,000			182,000	203,000		568,000
12 300		262,000			233,000	257,000		699,000
14 350					462,000	◎		
16 400					565,000	◎		
18 450					709,000	◎		
20 500					846,000	◎		
24 600					1,410,000	◎		

*All prices are subject to change without notice.

*Butterfly valve: Does not come with bolts or nuts.

*◎: Please contact us for pricing.

DUCTILE IRON VALVE

Type	Gate Valve					
Pressure	10K	10K	10K	16K	16K	16K
End Connection	Screw	Flange		Screw	Flange	
Fig Dimensions	D10SGS	D10GB	D10GOH	D16SG	D16GH	D16G
1/2 ^B 15 ^A	9,260	25,200		21,600	29,900	
3/4 20	12,100	26,100		24,000	32,300	
1 25	16,100	33,600		27,800	36,700	
1 1/4 32	24,000	41,200		36,000	43,900	
1 1/2 40	31,200	51,500		43,900	53,200	
2 50	44,600	73,900	86,600	56,400	66,300	105,000
2 1/2 65			104,000			124,000
3 80			134,000			163,000
4 100			163,000			200,000
5 125			237,000			319,000
6 150			258,000			392,000
8 200			360,000			
10 250			571,000			
12 300			763,000			

*All prices are subject to change without notice.

DUCTILE IRON VALVE

Type	Gate Valve				Globe Valve	
Pressure	16K	20K	20K	20K	10K	10K
End Connection	Flange	Screw	Flange		Screw	Flange
Fig Dimensions	D16GOH	D20SGH	D20GH	D20GOH	D10SS	D10SB
1/2 ^B 15 ^A		30,100	39,400		4,670	16,700
3/4 20		34,600	41,000		5,650	20,000
1 25		40,700	49,200		6,980	23,300
1 1/4 32		47,700	57,100		12,700	34,300
1 1/2 40		54,400	65,800		16,300	38,400
2 50		64,900	103,000	110,000	24,000	50,100
2 1/2 65				140,000		
3 80				173,000		
4 100				234,000		
5 125				434,000		
6 150				446,000		
8 200	585,000			688,000		
10 250	785,000			913,000		
12 300	1,160,000			1,310,000		

*All prices are subject to change without notice.

BRONZE

BRASS

CAST IRON

BUTTERFLY

DUCTILE IRON

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DUCTILE IRON VALVE

Type	Globe Valve					
Pressure	10K	10K	16K	16K	16K	20K
End Connection	Flange		Screw	Flange		Screw
Fig Dimensions	D10S	D10SOH	D16SSH	D16SH	D16S	D20SSH
1/2 ^B 15 ^A			13,800	22,500		15,400
3/4 20			15,700	24,800		18,600
1 25			20,800	29,700		22,400
1 1/4 32			32,300	37,900		35,900
1 1/2 40			36,300	45,100		43,200
2 50	88,700		48,000	62,500	97,700	54,400
2 1/2 65	107,000				128,000	
3 80	129,000				151,000	
4 100	176,000				203,000	
5 125	299,000				360,000	
6 150	371,000				495,000	
8 200	602,000				789,000	
10 250		1,070,000				
12 300		1,430,000				

*All prices are subject to change without notice.

DUCTILE IRON VALVE

Type	Globe Valve		Check Valve			
Pressure	20K	20K	10K	10K	10K	16K
End Connection	Screw	Flange	Screw	Flange	Flange	Screw
Fig Dimensions	D20SH	D20SOH	D10SLCH	D10LCH	D10COH	D16SLCH
1/2 ^B 15 ^A	21,800		5,500	12,900		10,900
3/4 20	27,400		7,040	14,200		13,200
1 25	36,000		8,310	20,000		16,900
1 1/4 32	43,400		13,800	27,500		21,600
1 1/2 40	53,700		17,600	32,600		29,400
2 50	71,100	138,000	27,800	46,500	97,700	38,500
2 1/2 65		148,000			112,000	
3 80		164,000			141,000	
4 100		224,000			200,000	
5 125		410,000			272,000	
6 150		511,000			313,000	
8 200		821,000			477,000	
10 250					701,000	
12 300					1,140,000	

*All prices are subject to change without notice.

DUCTILE IRON VALVE

Type	Check Valve					
Pressure	16K	16K	20K	20K	20K	
End Connection	Flange		Screw	Flange	Flange	
Fig Dimensions	D16LCH	D16C	D20SLCH	D20LCH	D20COH	
1/2 ^B 15 ^A	13,800		15,800	19,400		
3/4 20	18,000		18,700	23,600		
1 25	22,400		23,400	31,300		
1 1/4 32	28,400		35,800	40,700		
1 1/2 40	34,600		41,800	45,400		
2 50	50,900	131,000	53,900	60,500	152,000	
2 1/2 65		151,000			163,000	
3 80		192,000			208,000	
4 100		213,000			259,000	
5 125		286,000			354,000	
6 150		345,000			414,000	
8 200		493,000			640,000	
10 250					1,090,000	
12 300					1,370,000	

*All prices are subject to change without notice.

DUCTILE IRON VALVE

Type	Check Valve	Y-strainer				
Pressure	20K	10K	10K	10K	10K	16K
End Connection	Wafer	Screw	Fkange			Screw
Fig Dimensions	D20WC	D10SY	D10YH	D10YA	D10YOH	D16SY
1/2 ^B 15 ^A		4,340	15,600			9,020
3/4 20		4,590	16,300			10,300
1 25		6,450	20,100			14,800
1 1/4 32		8,990	27,000			20,800
1 1/2 40		12,700	31,200			29,600
2 50	83,600	18,100		40,700		34,600
2 1/2 65	90,200			60,000		
3 80	107,000			74,600		
4 100	129,000			99,500		
5 125	173,000			160,000		
6 150	236,000			204,000		
8 200	325,000				278,000	
10 250	587,000				550,000	
12 300	770,000				750,000	

*All prices are subject to change without notice.

BRONZE

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CAST IRON

BUTTERFLY

DUCTILE IRON

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DUCTILE IRON VALVE

Type	Y-strainer					
Pressure	16K	20K	20K			
End Connection	Flange	Screw	Flange			
Fig	D16Y	D20SYH	D20Y			
Dimensions						
1/2 ^B	15 ^A	18,200	21,400			
3/4	20	18,000	20,100	24,000		
1	25	22,400	24,000	31,900		
1 1/4	32	30,600	34,500	38,700		
1 1/2	40	35,700	38,300	47,200		
2	50	48,800	49,200	66,200		
2 1/2	65	72,000		138,000		
3	80	88,700		174,000		
4	100	120,000		267,000		
5	125	192,000		465,000		
6	150	240,000		604,000		
8	200	332,000		905,000		
10	250	565,000		1,430,000		
12	300			2,400,000		

*All prices are subject to change without notice.

STAINLESS STEEL VALVE

Type	Gate Valve			Globe Valve		
Pressure	10K	10K	10K	10K	10K	10K
End Connection	Screw	Flange		Screw	Flange	
Fig	S10SG	S10GB	S10GA	S10SS	S10SH	S10SOH
Dimensions						
1/2 ^B	15 ^A	13,000	34,300	11,900	31,900	
3/4	20	15,800	38,000	14,600	36,900	
1	25	19,100	49,900	20,300	54,200	
1 1/4	32	25,800	59,200	26,300	66,900	
1 1/2	40	38,000	73,500	38,300	75,400	
2	50	45,500	93,500	55,300	97,700	
2 1/2	65		174,000			170,000
3	80		219,000			205,000
4	100		276,000			268,000
5	125		425,000			426,000
6	150		536,000			618,000
8	200					1,190,000
10	250					
12	300					

*All prices are subject to change without notice.

STAINLESS STEEL VALVE

Type	Check Valve				Y-strainer	
Pressure	10K	10K	10K	10K	10K	10K
End Connection	Screw	Flange		Wafer	Screw	Flange
Fig Dimensions	S10SC	S10CH	S10COH	S10WC	S10SY	S10YB
1/2 ^B 15 ^A	12,700	42,200			13,800	34,700
3/4 20	14,200	46,800			17,000	42,600
1 25	18,200	60,200			22,800	62,700
1 1/4 32	23,400	78,500			25,800	74,800
1 1/2 40	34,100	91,600			40,600	77,800
2 50	54,300	105,000		116,000	56,600	105,000
2 1/2 65			187,000	149,000		
3 80			216,000	165,000		
4 100			288,000	209,000		
5 125			417,000	310,000		
6 150			534,000	396,000		
8 200			939,000	547,000		
10 250			1,550,000			
12 300			2,320,000			

*All prices are subject to change without notice.

STAINLESS STEEL VALVE

Type	Y-strainer	Ball Valve				
Pressure	10K	Class 600	Class 600	Class 1000	10K	10K
End Connection	Screw	Screw				Flange
Fig Dimensions	S10YA	VU3	VU	VUY	SVHB	S10V
1/4 ^B 8 ^A		3,780	4,670			
3/8 ^B 10 ^A		3,980	4,970			
1/2 ^B 15 ^A		4,920	6,160	11,200	14,100	28,800
3/4 20		5,670	7,120	12,700	16,400	32,800
1 25		7,130	8,990	17,600	23,300	46,500
1 1/4 32		12,400	15,400	24,500	34,400	58,700
1 1/2 40		16,200	20,400	31,000	44,700	62,700
2 50		22,200	27,800	42,400	61,600	79,000
2 1/2 65	198,000					115,000
3 80	232,000					139,000
4 100	336,000					203,000
5 125	500,000					469,000
6 150	663,000					592,000
8 200						957,000

*All prices are subject to change without notice.

*VU3, VU: T-handle available

Handling precautions

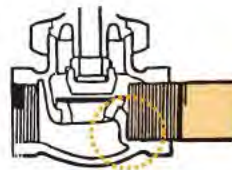
Removal of protective pads



Failure to observe this instruction disables valve function.

Do not excessively screw in the pipe

(not to butt)



Failure to observe this instruction may deform the valve.

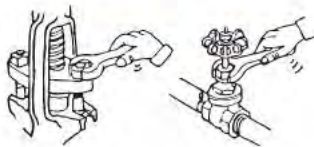
Do not disassemble



Failure to observe this instruction may cause leakage.

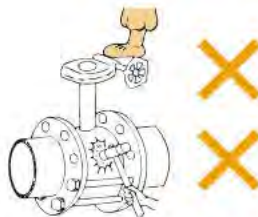
Retightening of the packing

(retighten before use)



It prevents gland leakage.

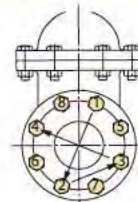
Handling of valves



Handle the valve with care.

Tightening of installation bolts

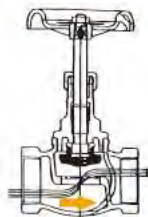
(tightening procedure of flange bolt)



It prevents uneven clamping.

Match the flow direction with the arrow on the main unit

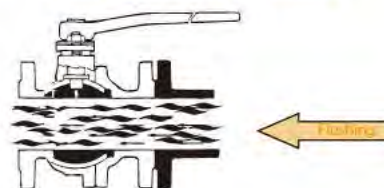
(globe valve, check valve, eccentric butterfly valve, etc.)



Failure to observe this instruction leads to malfunctioning.

Flushing

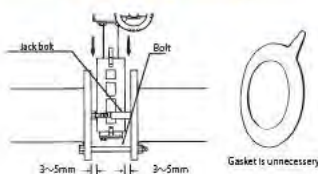
(clean the inside of the piping)



Failure to observe this instruction may cause sheet leakage or equipment failure.

Installation of a center type butterfly valve

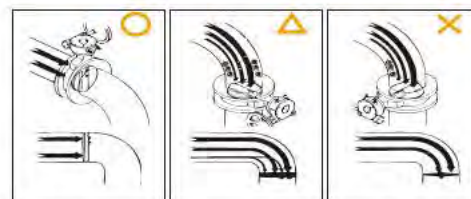
(install piping correctly)



Failure to observe this instruction may cause leakage.

Confirmation of mounting orientation

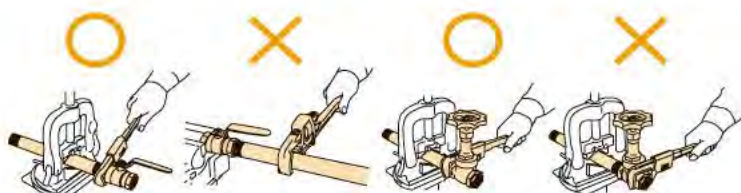
(butterfly valve, double-blade check valve, etc.)



Failure to observe this instruction leads to malfunctioning.

How to use a wrench

(hang the wrench on the screw side)



Do not use pipe wrenches to the valve. Using monkey and motor wrenches are highly recommended.
Failure to observe this instruction may cause deformation, leading to seat leakage.

Available tools to the valve

SPANNER	PIPE WRENCH

Valve adjustment

- (1) Rotate the handle of the valve at no-load state and perform opening and closing operations a few times to check that it moves smoothly.
- (2) For the gland packing, although it is tightened to the proper torque when shipped from the factory, during the period before initial use, it may become prone to leakage due to stress relaxation. Before passing a fluid, be sure to retighten the nut for retaining the packing. When retightening, raise and lower the valve rod by rotating the handle to obtain affinity between the packing and the valve rod, while checking the operating force of the handle so that right and left sides are evenly tightened and uneven clamping can be prevented.
- (3) After installation of the piping, depending on the on-site conditions, remove foreign substances in the piping, nitrogen gas, water etc. by blowing or flushing with air.

Certification

Yamato Valve Quality Policies

1. Develop products responding to customer needs
2. Take up the challenge to develop new technologies and products
3. Enrich education and training

Yamato Valve Hikone plant



Our Hikone Factory has acquired ISO 9001:2008 and ISO 14001:2004 certification as shown below. At the factory, all employees are working together to further improve quality and participating in environmental activities for the future of earth.

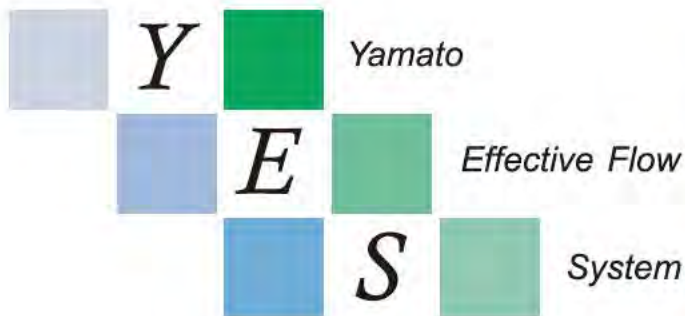
ISO 9001 - Certification body:PJR (Perry Johnson Registrars)

- Applicable standards :
ISO 9001:2015
- Initial registration date : June 2, 2000
- Registration date of 2015 version : May 10, 2017
- Subject : Yamato Valve Co., Ltd. Hikone Factory

ISO 14001 - Certification body : PJR (Perry Johnson Registrars)

- Applicable standards :
ISO 14001:2015
- Registration date : May 10, 2017
- Subject : Hikone Factory, Tokyo Head Office





To create a prosperous society and respond to future needs, we answer "YES."
YES is an abbreviation of our catch phrase, Yamato Effective Flow System. It represents the corporate attitude of Yamato Valve aiming to accurately identify customer needs to continue to develop in the new century through more effective and swift business activities focused on manufacturing and sales of valves.

Contact



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