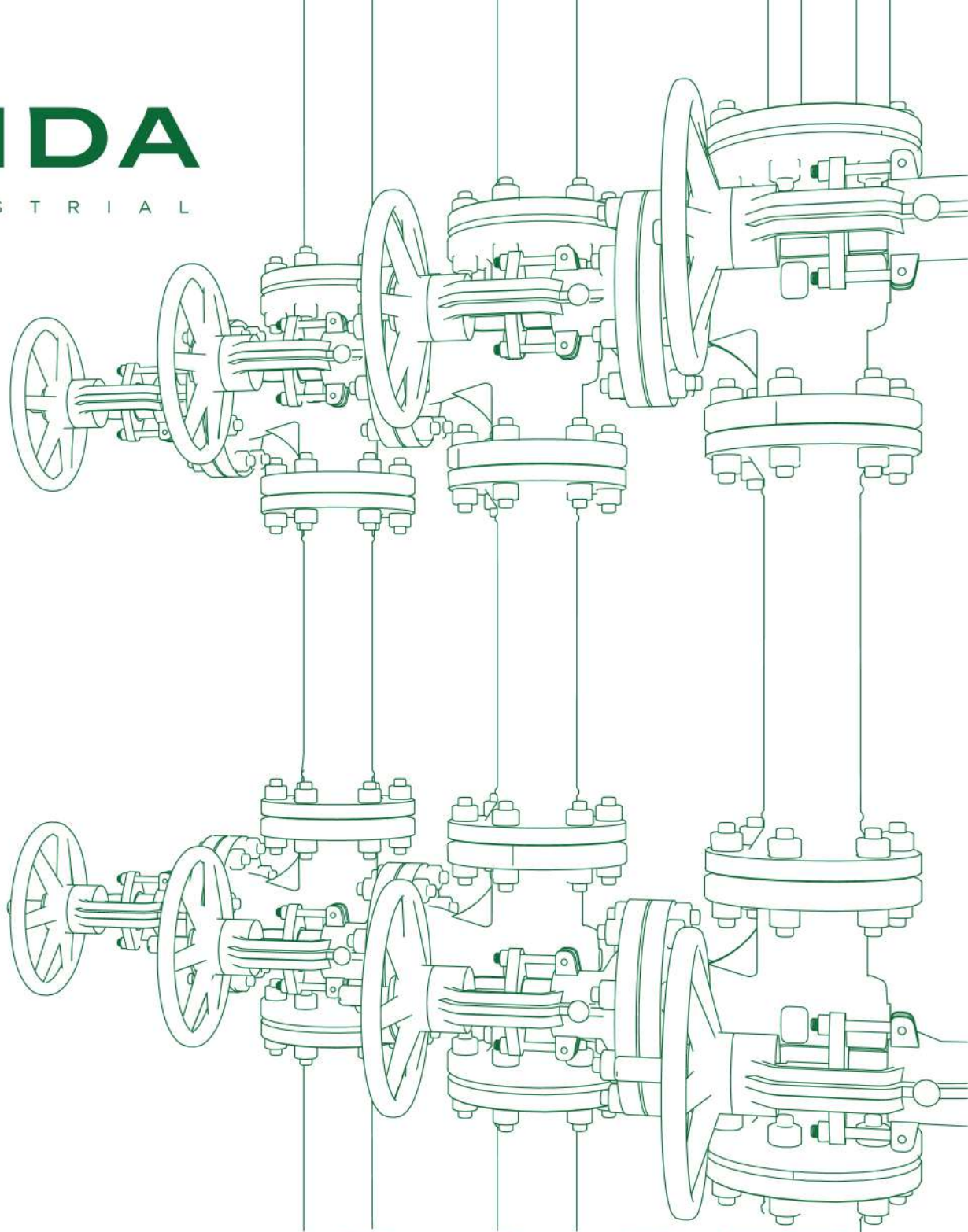


ONDA
INDUSTRIAL



CAST IRON

COLLECTION

DAFTAR ISI

GLOBE VALVE PN 16 NEW ITEM	02
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GLOBE VALVE CAST IRON JIS 5K	04
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NEW ITEM

GLOBE VALVE PN 16

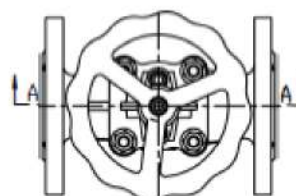
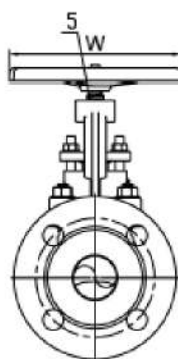
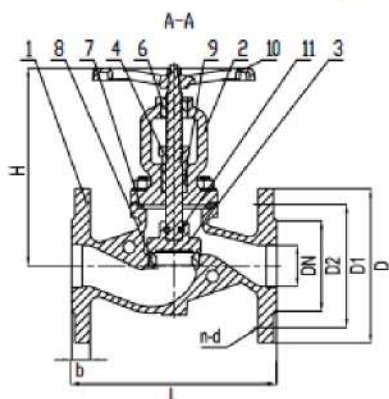


MATERIALS

No.	Parts	Material (1/2"-4")	Material (5"-12")
1	Body	Cast Iron	Ductile Iron
2	Bonnet	Cast Iron	Ductile Iron
3	Disc	Cast Iron	Ductile Iron
4	Gland Flange	Cast Iron	Ductile Iron
5	Stem	SS420	SS420
6	Stem Nut	Brass	Brass
7	Bonnet Gasket	Graphite + Steel	Graphite + Steel
8	Body Ring	SS304	SS304
9	Packing	Graphite	Graphite
10	Handwheel	Ductile Iron	Ductile Iron
11	Ball	SS304	SS201

Pressure Test to ISO5208

DN	Pressure Rating (PN)	Hydro Test Pressure (Mpa)	
		Body	Seat
15-100	16	2.4	1.76
12-300	10	1.5	1.1
	16	2.4	1.76



DIMENSION

Size (inch)	BS EN558	H(Open)	EN1092					W	Berat
	L		D	D1	D2	b	n-d		
1/2"	130	176	95	65	46	14	4-14	120	3,20 KG
3/4"	150	181	105	75	56	16	4-14	120	3,80 KG
1"	160	179.5	115	85	65	16	4-14	120	4,25 KG
1-1/4"	180	214	140	100	76	18	4-19	160	6,57 KG
1-1/2"	200	217.5	150	110	84	19	4-19	160	8,31 KG
2"	230	261	165	125	99	19	4-19	180	14,90 KG
2-1/2"	290	284.5	185	145	118	19	4-19	180	11,85 KG
3"	310	335.5	200	160	132	19	8-19	200	21,50 KG
4"	350	378.5	220	180	156	19	8-19	200	30,20 KG
5"	400	413	250	210	184	19	8-19	-	37,20 KG
6"	480	454	285	240	211	19	8-23	-	53,45 KG
8"	600	577	340	295	266	20	12-23	-	110 KG
10"	730	740	405	355	319	22	12-28	-	165 KG
12"	850	720	460	410	370	24.5	12-28	-	232 KG

GLOBE VALVE CAST IRON JIS 10K



MATERIALS

Parts	JIS materials		
	10 FCJ	10 FCJS	10 FCJU
Body	Fc20		
Bonnet	FC20		
Stem	C3771BD	SUS403	SUS304
Disc (Size)	1-1/2" & 2"	BC6	SUS403
	2-1/2" to 12"	FC20	
Seat Ring	BC6	SUS403	SUS304
Lock Nut	BC6	SUS403	SUS304
Gland	FCD-S		
Gland Packing	Asbestos - free		
Handwheel	FC25 (Size : 1-1/2" to 6")		
	FCD40 (Size : 8" to 12")		
Washer	SS41		
Gasket	Asbestos - free		
Gland bolt/nut	SS41		
Bonnet bold/nut	SS41		

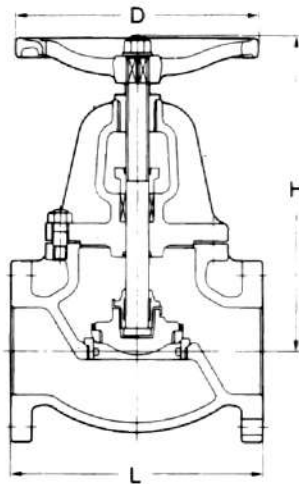


Fig. 10FCJ (Bronze mounted)
Fig. 10FCJS (13 Cr. mounted)
Fig. 10FCJU (18-8 mounted)

Bolted bonnet, outside screw & yoke,
rising stem, bevelled wedge disc.



Designed to JIS B2031

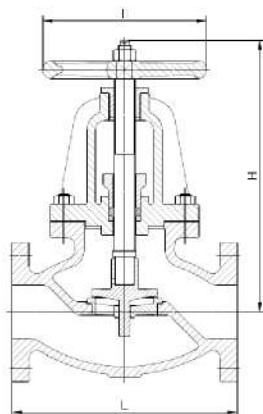
120°C Non-shock water.....14 kgf / cm
120°C Non-shock water.....10 kgf / cm
Saturated steam.....7 kgf / cm
Hydrostatic shell test.....21 kgf / cm
Hydrostatic seat test.....15.4 kgf / cm

DIMENSION

Valve size	mm	50	65	80	100	125	150	200	250	300
	inch	2	2-1/2	3	4	5	6	8	10	12
L Face - to face		200	220	240	290	360	410	500	620	700
H Overall Height		277	307	353	404	454	533	642	665	755
D Handwheel Diameter		180	180	225	280	300	350	450	450	500
Berat		16,5 KG	22 KG	27 KG	41 KG	61 KG	88 KG	123,5 KG	220 KG	290 KG

* Only 10" & 12" for 10FCJS. No JIS Mark for 10" & 12".

GLOBE VALVE CAST IRON JIS 5K



MATERIALS

Parts	JIS materials
Body	Cast Iron
Bonnet	Cast Iron
Stem	Brass
Disc	Cast Brass
Disc Seat	Cast Brass
Gland	Ductile Iron
Gland Packing	PTFE
Hand Wheel	Cast Iron
Gasket	Asbestos - Free

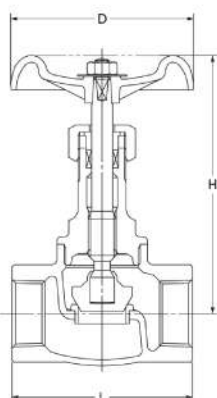
Working Pressure.....6 kgf / cm
Hydrostatic shell test.....10.6 kgf / cm
Hydrostatic seat test.....7.7 kgf / cm

Flanged ends Design Standards	JIS B2211 JIS F7353
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DIMENSION

Valve size	mm inch	40 1-1/2	50 2	65 2-1/2	80 3	100 4	125 5	150 6
L		160	210	250	280	340	410	480
H		225	253	273	299	332	374	432
D		140	160	180	200	220	250	300
Berat		11,3 KG	13,4 KG	17,6 KG	23,5 KG	35,7 KG	53,4 KG	76 KG

GLOBE VALVE DUCTILE IRON JIS 10K



MATERIALS

Parts	JIS materials
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SUS 403
Body Seat Ring	SUS 403 (2-1/2" & 3" : SCS 1)
Gland	SUS 403 (1/4" - 3/4" : SUS 420J2)
Gland Packing	Asbestos - Free
Packing Nut	FCD - S
Handwheel	FCD 450-10 (2-1/2" & 3" : FCD 400-15)
Wheel Nut	SS400
Gasket	Asbestos - Free
Bonnet Ring	FCD-S
Name Plate	A1050P

120°C Static Water.....1.37 MPa

220°C Steam, air, gas, oil0.98 MPa

DIMENSION

Valve size	mm inch	15 1/2	20 3/4	25 1	32 1-1/4	40 1-1/2	50 2
L		65	80	90	105	120	140
H		122	125	146	160	180	198
D		70	80	90	100	115	135
Berat		0,5 KG	0,7 KG	1,1 KG	1,6 KG	2,5 KG	3,7 KG

GATE VALVE CAST IRON JIS 10K



MATERIALS

Parts	JIS materials
Body	FC30
Bonnet	FC30
Stem	C3771BD
Disc	FC30 (1" : BC6)
Seat ring	BC6 (2" & larger)
Gland	FCD-S
Gland packing	Asbestos - free
Gasket	Asbestos - free
Gland bolt/nut	SS41
Bonnet bolt/nut	SS41
Indicator	ZDC

Flanged ends	JIS B2210
F-F dimension	BS 3464
Wall thickness	ONDA Std.

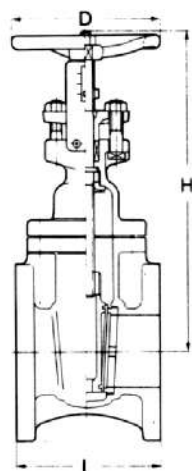


Fig. 10FCHI (Bronze mounted)

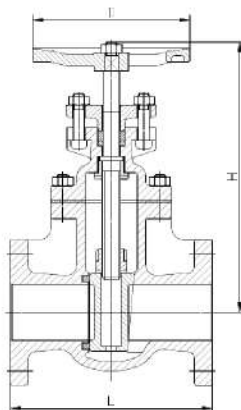
Bolted bonnet, inside screw with indicator, non-rising stem, solid wedge disc.

120°C Non-shock water, oil, gas.....10 kgf / cm
Saturated steam.....7 kgf / cm
Hydrostatic shell test.....21 kgf / cm
Hydrostatic seat test.....15.4 kgf / cm

DIMENSION

Valve size	mm inch	50	65	80	100	125	150	200	250	300
		2	2-1/2	3	4	5	6	8	10	12
L Face - to face		146	159	165	171	190	210	240	273	305
H Overall Height		250	285	350	400	465	515	630	760	870
D Handwheel Diameter		140	160	160	180	225	225	300	350	350
Berat		12,2 KG	16,5 KG	20,2 KG	27,2 KG	42,8 KG	58,5 KG	89 KG	140 KG	197 KG

GATE VALVE CAST IRON JIS 5K



MATERIALS

Parts	JIS materials
Body	Cast Iron
Bonnet	Cast Iron
Stem	Brass
Disc	Cast Iron Welding Copper
Seat ring	PTFE
Gland	Ductile Iron
Gland packing	PTFE
Gasket	Asbestos - Free
Indicator	Aluminum
Hand Wheel	Cast Iron

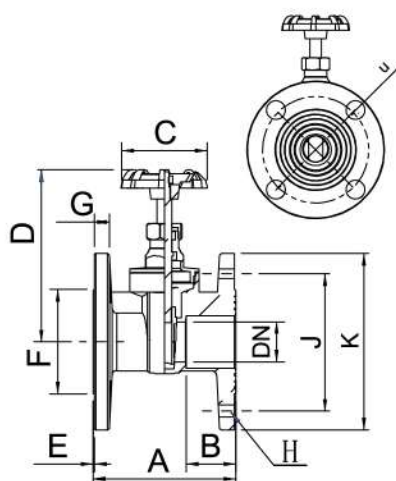
Working Pressure.....6 kgf / cm
 Hydrostatic shell test.....10.6 kgf / cm
 Hydrostatic seat test.....7.7 kgf / cm

Flanged ends Design Standards	JIS B2211 JIS F7363
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DIMENSION

Valve Size	mm	40	50	65	80	100	125	150
	inch	1-1/2	2	2-1/2	3	4	5	6
L		140	180	190	200	230	250	270
H		220	250	285	335	391	449	495
D		140	140	160	160	180	225	225
Berat		8,4 KG	10,8 KG	14,6 KG	20 KG	27,5 KG	41,5 KG	58,5 KG

GATE VALVE FLANGE BRASS 10K



MATERIALS

Parts	JIS materials
Wheel Nut	Brass
Name Plate	Al Name Plate
Handle	Iron
Pandle	Brass
Gland	Brass
Packing	PTFE
Lock Nut	Brass
Bonnet	Brass
Seal	PTFE
Stem	Brass
Dtem	Brass
Body	Brass

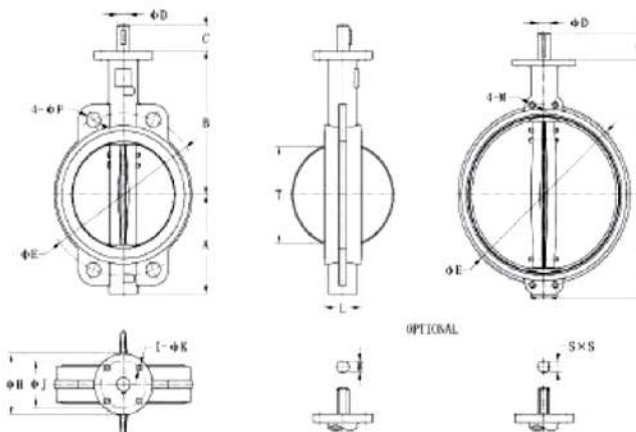
DIMENSION

Valve Size (inch)	A	B	C	D	E	F	G	H	J	K	DN	PCD/U	Berat
1-1/2	115	39	100	140	1	85	12	4*19	105	140	37	105	4,30 KG
2	115	40	110	153	1.5	99	12	4-19	105	140	37	120	4,95 KG
2-1/2	123	44	125	176	1.5	120	11	8-19	140	175	55	140	7,00 KG
3	144	50	145	192	1.5	134	12	8*23	160	200	66	160	9,35 KG
4	161	50	180	212	1.5	160	13.5	8*23	185	225	85	185	13,20 KG

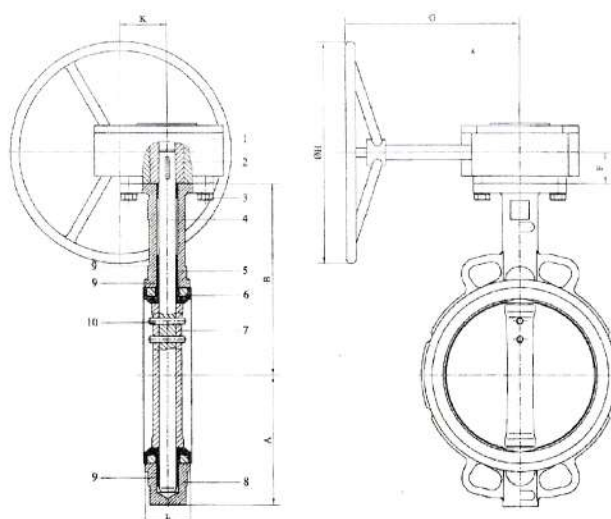
BUTTERFLY VALVE CAST IRON JIS 10K



LEVER OPERATOR (2" - 6")



GEAR OPERATOR (8" - 12")



MATERIALS

Parts	JIS materials	Parts	JIS materials
Body	Cast Iron	Tapper Pin	SS 304
Stem	SS 410	Bushing	PTFE
Seat	EPDM	Bolt	Carbon Steel
Disc	CF 8	Key	Carbon Steel
O-Ring	EPDM		

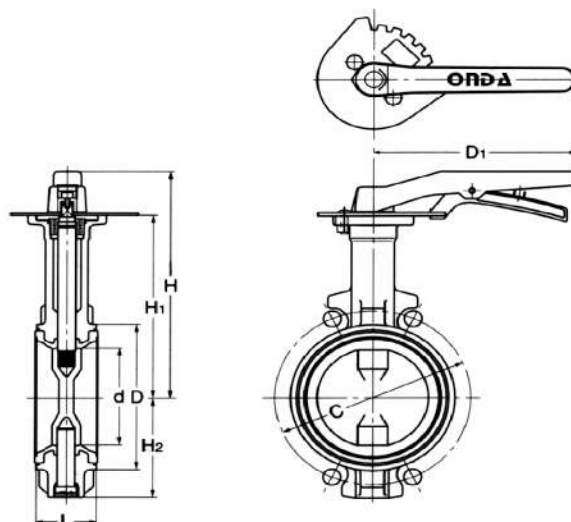
DIMENSION

Valve Size		A	B	C	D	AN51 125/150				AN51 125/150				H	J	I - K	L	T	S	W	Berat
mm	inch					PN10	PN15	10K		PN10	PN15	10K									
50	2	76	152	32	12.7	120.7	125	125	120	19	18	18	19	65	50	4-7	42	32	10	10	3,0 KG
65	2-1/2	89	174	32	12.7	139.7	145	145	140	19	18	18	19	65	50	4-7	45	47	10	10	3,6 KG
80	3	95	181	32	12.7	152.4	160	160	150	19	18	18	19	65	50	4-7	45	65	10	10	4,2 KG
100	4	114	200	32	15.9	190.5	160	160	175	19	18	18	19	90	70	4-9.5	52	90	14	12	5,8 KG
125	5	127	213	32	19.1	215.9	210	210	210	22	18	18	23	90	70	4-9.5	54	111	17	14	7,0 KG
150	6	139	225	32	19.1	241.3	240	240	240	22	22	22	23	90	70	4-9.5	56	145	17	14	9,0 KG
200	8	177	250	38	22.2	298.5	295	295	290	22	22	22	23	125	102	4-11.5	60	193	17	17	20,5 KG
250	10	200	292	38	28.5	362	350	350	355	25	22	26	25	125	102	4-11.5	66	241	22	22	26,5 KG
300	12	242	337	38	31.8	431.8	400	400	400	25	22	26	25	125	102	4-11.5	77	292	22	24	40,0 KG

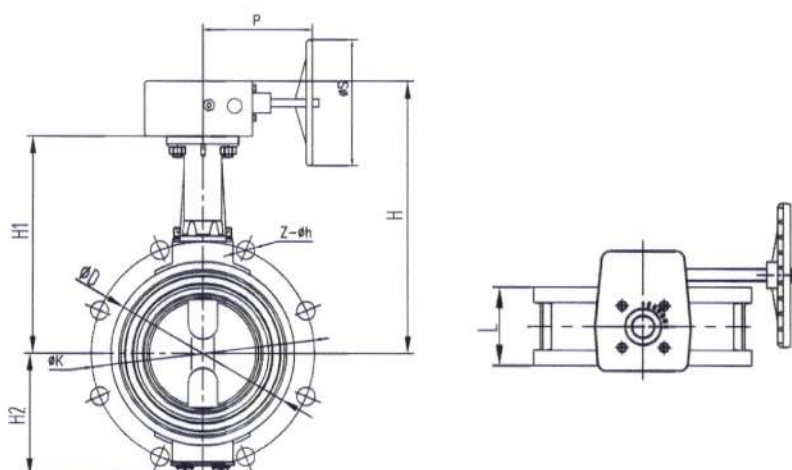
BUTTERFLY VALVE ALLUMUNIUM JIS 10 K



LEVER OPERATOR (2" - 6")



GEAR OPERATOR (8" - 12")



MATERIALS

Parts	JIS materials
Body	Aluminium Alloy
Seat	EPDM
Disc	CF8/CF8M
Steam	20cR13

MATERIALS

Nomin Pressure	PN 10	STANDARD	Design	GB/T12238
Shell Test	1.5 MPa		Dim Of Flange	HG/T20592
Seal Test	1.1 MPa		Face To Face	GB/T12221
Air Test	0.6 MPa		Inspection & Test	GB/T13927

DIMENSION

Valve Size		d	H	H1	H2	L	D	C			D1	Berat
inch	mm							10K	Class 150	PN16		
2	50	50	177	132	66	43	93	120	120.5	125	180	1,32 KG
2-1/2	65	65	186	141	74	46	118	140	139.5	145	180	1,53 KG
3	80	80	194	149	83	46	129	150	152.5	160	180	1,82 KG
4	100	100	205	160	94	52	149	175	190.5	180	180	2,22 KG
5	125	125	248.5	194.5	122	56	184	210	216	210	230	3,97 KG
6	150	150	261	207	135	56	214	240	241.5	240	230	5,45 KG
8	200	-	-	288	177.5	21	265	290	298.5	295	70	10,18 KG
10	250	-	-	265.5	213.5	23	317	355	362	355	102	20 KG
12	300	-	-	290.5	240	23	370	400	431.8	410	102	28 KG

BALL VALVE CAST IRON JIS 10K



MATERIALS

Parts	JIS materials
Body	FC20
Body cap	FC20
Stem	SUS304
Ball	SCS13
Gland	FCD40
Gland packing	PTFE
Ball seat	PTFE
Thrust washer	Glass filled PTFE
Handle	FCD40

Flanged ends	JIS B2210
F-F dimension	JIS B2002
Wall thickness	ONDA Std.

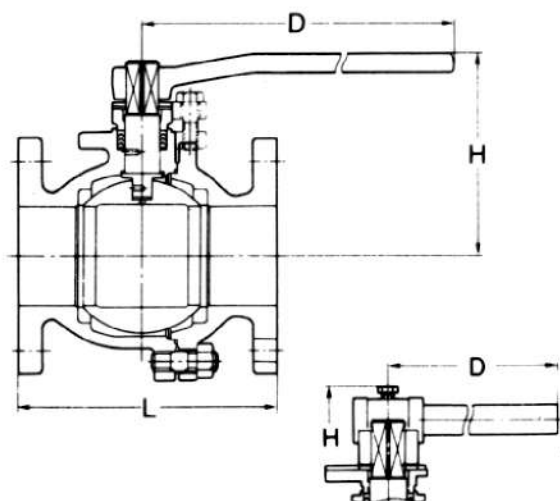


Fig. 10FCTB

120°C Non-shock water.....14 Mpa
 120°C Water, oil, gas.....10 Mpa
 Saturated steam.....7 Mpa
 Hydrostatic shell test.....21 k gf / cm
 Hydrostatic seat test.....15.4 kgf / cm

DIMENSION

Valve size	mm	50	65	80	100	125	150	200	250	300
	inch	2	2-1/2	3	4	5	6	8	10	12
Bore diam.		50	65	80	100	125	150	200	250	310
L		180	190	200	230	300	340	450	533	580
H		120	153	162	191	211	290	340	*	*
D		230	400	400	460	460	1000	1500	*	*
Berat		10 KG	14,9 KG	18 KG	25,8 KG	44,7 KG	60,5 KG	102,5 KG	158 KG	240 KG

CHECK VALVE CAST IRON JIS 10K



MATERIALS

Parts		JIS materials		
		10 FCJ	10 FCJS	10 FCJU
Body		FC20		
Cover		FC20		
Disc (Size)	1-1/2" to 4"	BC6	SUS420J2	SUS304
	5" to 14"	FC20		
Seat Ring		BC6	SUS403	SUS304
Disc nut		SS41		
Hinge pin		C3771BD	SUS403	SUS304
Plug		SS41		
Gasket		Asbestos - free		
Cover bolt/nut		SS41		
Arm		FCD40		

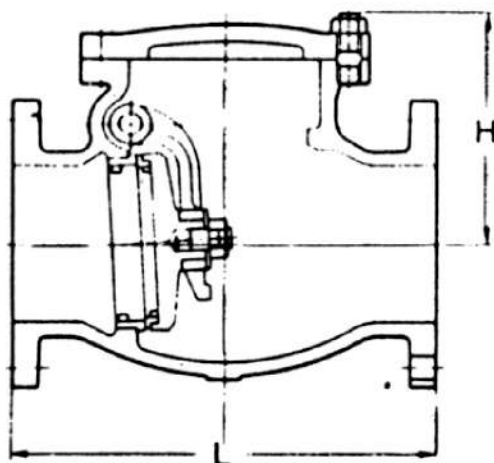


Fig. 10FCO (Bronze mounted)

Fig. 10FCOS (13 Cr. mounted)

Fig. 10FCOU (18-8 mounted)

Bolted bonnet, swing type disc.



Designed to JIS B2031

120°C Non-shock water.....1.37 Mpa

120°C Water, oil, gas.....0.98 Mpa

Saturated steam.....0.69 Mpa

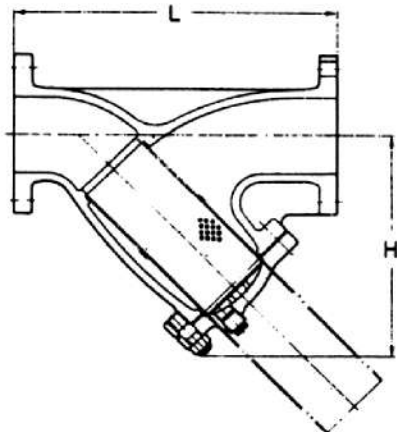
Hydrostatic shell test.....21 kgf / cm

Hydrostatic seat test.....15.4 kgf / cm

DIMENSION

Valve size	mm	50	65	80	100	125	150	200	250	300
	inch	2	2-1/2	3	4	5	6	8	10	12
L Face - to face		200	220	240	290	360	410	500	620	700
H Overall Height		116	130	155	175	212	230	270	315	440
Berat		10,3 KG	14,4 KG	17 KG	25 KG	41,6 KG	57,5 KG	92,5 KG	142 KG	190 KG

Y STRAINER CAST IRON 10K



MATERIALS

Parts	JIS materials
Body	FC20
Cap (Size 3/8" to 1-1/2")	C3771BE
Cover (2" & larger)	FC20
Gasket	Asbestos - free
Screen	SUS304
Cover bolt/nut	SS41
Plug	SUS304 (Size 1-1/2" to 3")
	C3771BD (Size 4" to 14")

SCREEN DIMENSION

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

Flanged ends	JIS B2210
F-F dimension	ONDA Std.
Wall thickness	ONDA Std.

Fig. 10FCJ (Bronze mounted)

Fig. 10FCJS (13 Cr. mounted)

Fig. 10FCJU (18-8 mounted)

Bolted bonnet, Y-pattern body,
Punched stainless steel plate screen.

60°C WOG (12" & smaller).....14 kgf / cm

60°C Water, oil, gas.....8.8 kgf / cm

Saturated steam.....7 kgf / cm

Hydrostatic shell test21 kgf / cm

DIMENSION

Valve size	mm	50	65	80	100	125	150	200	250	300
	inch	2	2-1/2	3	4	5	6	8	10	12
L Face - to face		230	305	360	415	465	515	580	680	800
H Height		127	212	242	284	325	370	440	515	600
Berat		10,2 KG	15,8 KG	21,3 KG	29 KG	45,3 KG	66 KG	99,5 KG	156 KG	247 KG

WAFER CHECK VALVE CAST IRON JIS 10K

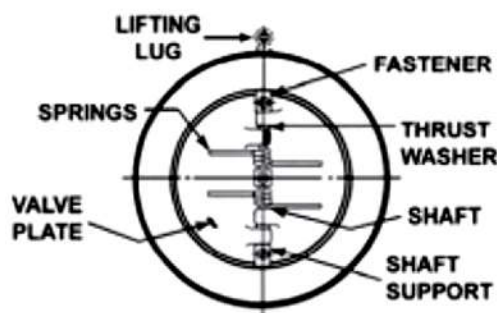


MATERIALS

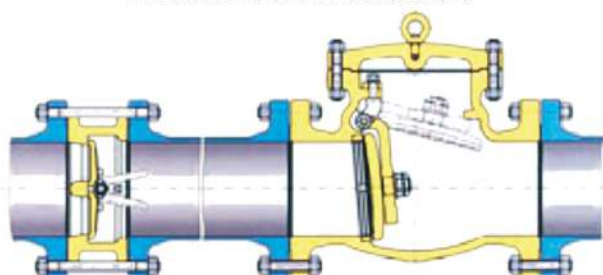
Parts	Qty	JIS materials
Body	1	Cast Iron, SS316
Seat	1	EPDM, NBR, METAL
Disc	2	Ductile Iron, Ss316
Spring	2	ASTM A276, S31600
Stem	2	SS410, SS316

Technical Data

Nominal Diameter		2" - 24 "
TESTING PRESSURE	Sealing	255 PSI / 17.6 bar
	Shell	350 PSI / 24 bar
Basic Design		BSS 5155 / ISO 5752



DIMENSIONAL COMPARISON



DESIGN FEATURES

A. Body

ONDA exclusive body design offers these features :

- * Compact wafer style one piece design.
- * No leakage to atmosphere is insured due to unique design which eliminates through holes and pipe plugs in the body.
- * Maximum flow area minimizes pressure loss.
- * Minimizes installation space and time.

B. Valves Plates

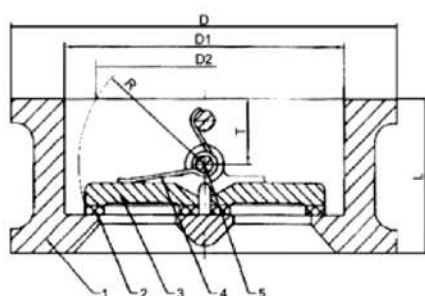
Open to a full 90° offering a streamlined flow resulting minimum pressure loss. The dual plate design produce maximum strength with minimum opening and closing time.

C. Springs

Torsion springs assist valve plate closure preventing flow reversal. Consistent valve response insures against slamming and water hammer.

D. Shaft

Heavy duty corrosion resistant construction.

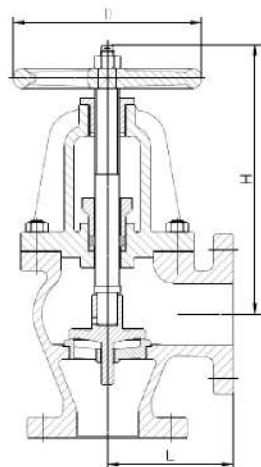


DIMENSION

(unit: mm)

Size	D			D1	D2	L	R	T	Berat
	JIS 10K	PN 10	ANSI 150						
2"	102	109	104	65	43.3	43	28.8	19	1,3 KG
2-1/2"	122	129	124	80	60.2	46	36.1	20	1,75 KG
3"	132	144	137	94	66.4	64	43.4	28	3 KG
4"	157	164	166	117	90.8	64	52.8	27	4 KG
5"	188	194	194	145	116.9	70	65.7	30	5 KG
6"	218	220	220	170	144.6	76	78.6	31	8 KG

ANGLE VALVE CAST IRON JIS 5K



MATERIALS

Parts	JIS materials
Body	Cast Iron
Bonnet	Cast Iron
Stem	Brass
Disc	Cast Brass
Disc Seat	Cast Brass
Gland	Ductile Iron
Gland Packing	PTFE
Hand Wheel	Cast Iron
Gasket	Asbestos - Free

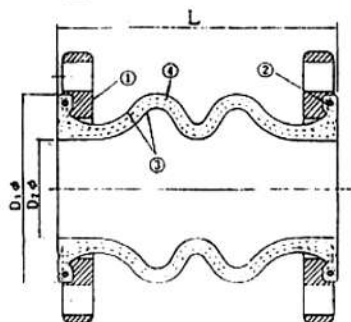
Flanged ends Design Standards	JIS B2211 JIS F7306
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Working Pressure.....6 kgf / cm
Hydrostatic shell test.....10.6 kgf / cm
Hydrostatic seat test.....7.7 kgf / cm

DIMENSION

Valve Size	mm	40	50	65	80	100	125	150
	inch	1-1/2	2	2-1/2	3	4	5	6
L		85	100	115	130	150	170	190
H		199	219	233	251	279	308	358
D		140	160	180	200	220	250	300
Berat		8,1 KG	11,5 KG	15,7 KG	21 KG	31 KG	44,5 KG	61,2 KG

FLEXIBLE RUBBER JOINT JIS 10K



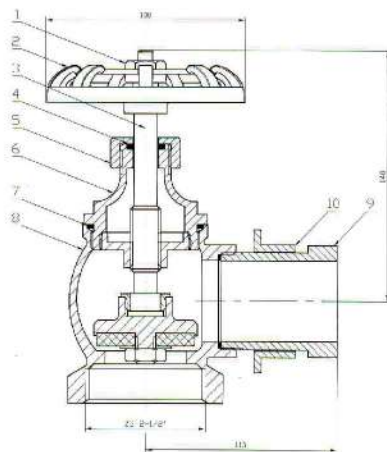
MATERIALS

Parts	JIS materials
Flange	Mild Steel
Reinforcing Ring	Carbon Steel
Inner Rubber	Synthetic Rubber
Outer Rubber	Synthetic Rubber

DIMENSION

Nominal Dm.		Dimension [mm]	Berat
mm	inch		
40	1-1/2	175	3,66 KG
50	2	175	4,49 KG
65	2-1/2	175	6,05 KG
80	3	175	6,30 KG
100	4	225	7,72 KG
125	5	225	11,25 KG
150	6	225	14,65 KG
200	8	225	18,20 KG

HYDRANT VALVE 16K



MATERIALS

No.	Parts	Material
1	Nut	Iron
2	Handle Wheel	Iron
3	Stem	Brass
4	O-Ring	EPDM
5	Hexnut	Brass
6	Bonnet	Brass
7	O-Ring	EPDM
8	Body	Brass
9	Joint	Brass
10	Flanged Ends	Brass

Size Range (inch)	Berat
1-1/2	1,07 KG
2	1,77 KG
2-1/2	2,87 KG

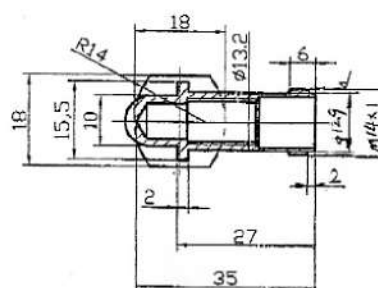
NEEDLE VALVE



MATERIALS

Material	Brass
Valve Type	Needle Valve
End Connection	S.E
Valve Class	125-200

Size Range (inch)	Berat
1/4	0,11 KG
1/8	0,12 KG
3/8	0,13 KG



SEALTAPE COLOR



SEAL TAPE MERAH

*Memiliki daya tahan extra terhadap unsur kimia yang mempengaruhi kebocoran pada alat fire hydrant.

*Digunakan untuk : Fitting pipa hydrant.



SEAL TAPE BIRU

*Memiliki kekuatan extra pada penggunaan sambungan fitting pipa kran & fitting bertekanan tinggi.

*Digunakan untuk : Fitting pipa bertekanan tinggi.



SEAL TAPE KUNING

*Memiliki ketebalan & ketahanan extra untuk mencegah kebocoran pada fitting pipa gas.

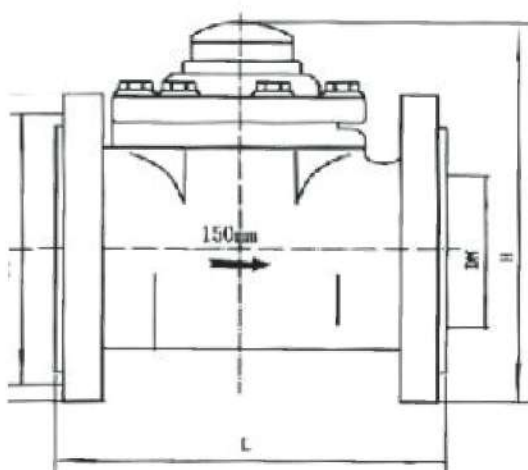
*Digunakan untuk : Fitting pipa gas.

ITEM	Seal Tape Color
Maximum Traction (Mpa)	15
Maximum Water Pressure (bar)	25
Maximum Temperature (Celcius)	260°C
Minimum Temperature (Celcius)	-5°C

STANDARD SCOPE (COLOR TAPE)

Specification		Standard Code	Standard Scope	Testing Method
Width	12 mm	QB/T-4008-2010	+0.5mm,-0.5mm	Average Width of 10 rolls
Thickness	0.1 mm	QB/T-4008-2010	+0.015mm,-0.015mm	Average Thickness of 10 overlap rolls (by the thickness-testing instrument)
Length	15 M	QB/T-4008-2010	Not less than 15M	Average Length of 10 rolls
Density	0.4g/cm ³	QB/T-4008-2010	+15%,-15%	Average Density of 10 rolls
Net Weight	7.2g/rolls	QB/T-4008-2010	Not less than 7.2g	Average Net Weight of 10 rolls

WATER METER FLANGE



*Max water pressure 10 Bar

*Standard flange PN 10

*Water temperature :

- Cold water 40°C

- Hot water 90°C

MAIN MECHANICAL DATA

Dia Size DN (mm)	Class	Qs Overload Flow	Qs Nominal Flow	Qs Transitional Flow	Qmin Min Flow	Starting Flow	Min Reading	Max Reading
		m ³ /h				L/h	m ³	
50	B	20	16	1.28	0.32	150	0.01	9999999
65	B	50	25	5	0.75	170	0.01	9999999
80	B	80	40	8	1.2	280	0.01	9999999
100	B	120	60	12	1.8	400	0.01	9999999
125	B	200	100	20	3	800	0.01	9999999
150	B	300	150	30	4.5	1200	0.01	9999999
200	B	500	250	50	7.5	1500	0.01	9999999
250	B	800	400	80	12	2500	0.01	9999999
300	B	1200	600	120	18	6000	0.01	9999999

DIMENSION & WEIGHT

Dia Size DN (mm)	Length L	Width B	Height H	Connecting Flange			Weight Kg
				D mm	Bolt circle dia mm	Connecting bolt dia pcs	
50	200	175	257	165	125	4 x 16mm	12
65	200	185	267	185	145	4 x 16mm	13
80	225	200	277	200	160	8 x 16mm	15
100	250	220	287	220	180	8 x 16mm	19
125	250	245	297	245	210	8 x 16mm	22
150	300	285	375	285	240	8 x 20mm	47
200	350	345	400	340	295	8 x 20mm	48
250	450	395	484	395	350	12 x 20mm	110
300	450	445	506	445	400	12 x 20mm	115

ONDA

I N D U S T R I A L

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