



ONDA[®]
— INDUSTRIAL VALVE —

3



ONDA[®]

— INDUSTRIAL VALVE —

GATE
VALVE FLANGE



RUBBER JOINT



BUTTERFLY VALVE



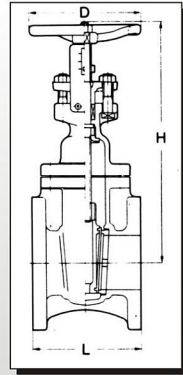
GATE VALVE CAST IRON JIS 10K



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 / cm²
 Saturated steam.....7 kgf / cm²
 Hydrostatic shell test.....21 kgf / cm²
 Hydrostatic seat test.....15.4 kgf / cm²

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.

Dimensions

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		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

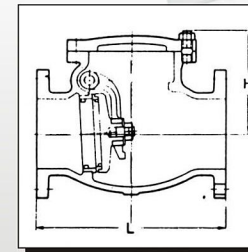
CHECK VALVE CAST IRON JIS 10K



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 / cm²
 Hydrostatic seat test.....15.4 kgf / cm²

Materials

Parts	JIS materials		
	10 FCJ	10 FCJS	10 FCJU
Body	FC20		
Cover	FC20		
Disc (Size) 1-1/2" to 4"	BC6	SUS420J2	SUS304
Disc (Size) 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		

Dimensions

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

GLOBE VALVE IRON CASTING JIS 10K

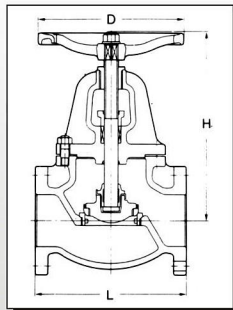


Fig. 10FCJ (Bronze mounted)
 Fig. 10FCJS (13 Cr. mounted)
 Fig. 10FCJU (18-8 mounted)



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

Designed to JIS B2031



120°C Non-shock water.....14 kgf / cm²
 120°C Non-shock water.....10 kgf / cm²
 Saturated steam.....7 kgf / cm²
 Hydrostatic shell test.....21 kgf / cm²
 Hydrostatic seat test.....15.4 kgf / cm²

Materials

Parts	JIS materials		
	10 FCJ	10 FCJS	10 FCJU
Body	Fc20		
Bonnet	FC20		
Stem	C3771BD		
Disc (Size) 1-1/2" & 2"	BC6	SUS403	SUS304
Disc (Size) 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 bolt/nut	SS41		

Dimensions

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

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

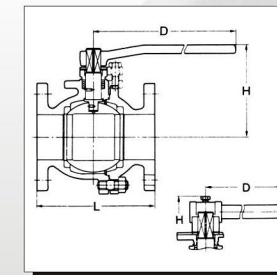
BALL VALVE CAST IRON JIS 10K



Fig. 10FCTB



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



120°C Non-shock water.....14 Mpa
 120°C Water, oil, gas.....10 Mpa
 Saturated steam.....7 Mpa
 Hydrostatic shell test.....21 kgf / cm²
 Hydrostatic seat test.....15.4 kgf / cm²

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

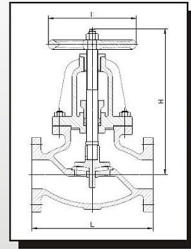
Dimensions

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	610
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	*	*

GLOBE VALVE CAST IRON JIS 5K



Flanged ends Design Standards JIS B2211 JIS F7353



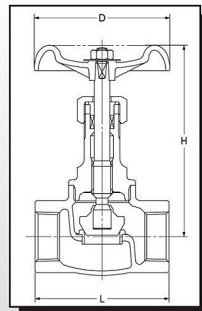
Working Pressure.....6 kgf / cm²
Hydrostatic shell test.....10.6 kgf / cm²
Hydrostatic seat test.....7.7 kgf / cm²

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

Dimensions

Valve size	mm	40	50	65	80	100	125	150
	inch	1-1/2	2	2-1/2	3	4	5	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	

GLOBE VALVE DUCTILE IRON JIS 10K



120°C Static Water.....1.37 MPa
220°C Steam, air, gas, oil0.98 MPa

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

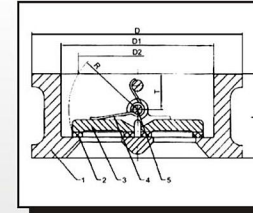
Dimensions

Valve size	15	20	25	32	40	50
	1/2	3/4	1	1-1/4	1-1/2	2
L	65	80	90	105	120	140
H	122	125	146	160	180	198
D	70	80	90	100	115	135

WAFER CHECK VALVE CAST IRON JIS 10K



JIS 10K, PN 10 & ANSI 150 Standard Flanges



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 in minimum pressure loss. The dual plate design produce maximum strenght with minimum opening and closing time.

C. Springs

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

D. Shaft

Heavy duty corrosion resistant construction.

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	

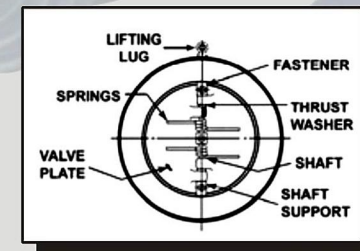
Materials

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

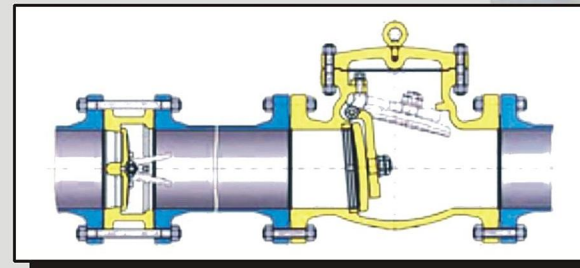
Dimensions

(unit: mm)

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



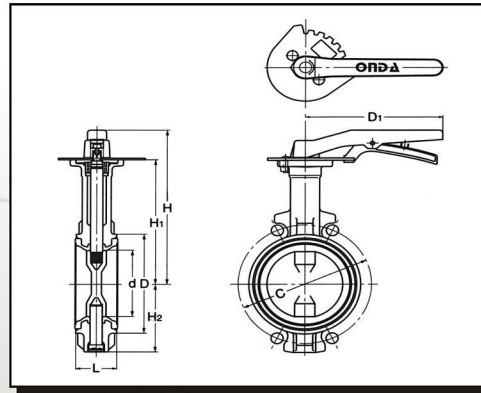
DIMENSIONAL COMPARISON



BUTTERFLY VALVES 10K



10 ODSME / PN160DME



G	-	10	OD	S	M	€	A
↓		↓	↓	↓	↓	↓	↓
1		2	3	4	5	6	2

1. VALVE OPERATION

- None.....Lever
- G.....Gear
- DR or DAT.....Pneumatic actuator (Double Action)
- DAS or DATS.....Pneumatic actuator (Spring return action)
- EL 110/220.....Electric actuator (AC 110V / 220V)
- N.....Socket wrench type

2. CLASS

- 10_A.....JIS 10K/ASME Class 150
- PN16.....BS 4504 PN16

4. DESIGN

- None.....Long Neck
- S.....Short Neck

3. ONDA BUTTERFLY VALVE SERIES

- OD.....OD Series

5. DISC MATERIAL

- M.....316 Stainless Steel

6. Seat.....EPDM

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

SEAL TAPE COLOR



72 pcs



SEAL TAPE MERAH

Kegunaan, lebih kuat terhadap unsur kimia yang mempengaruhi sambungan - sambungan pada alat - alat fire hydrant & lebih tahan terhadap kebocoran.



SEAL TAPE BIRU

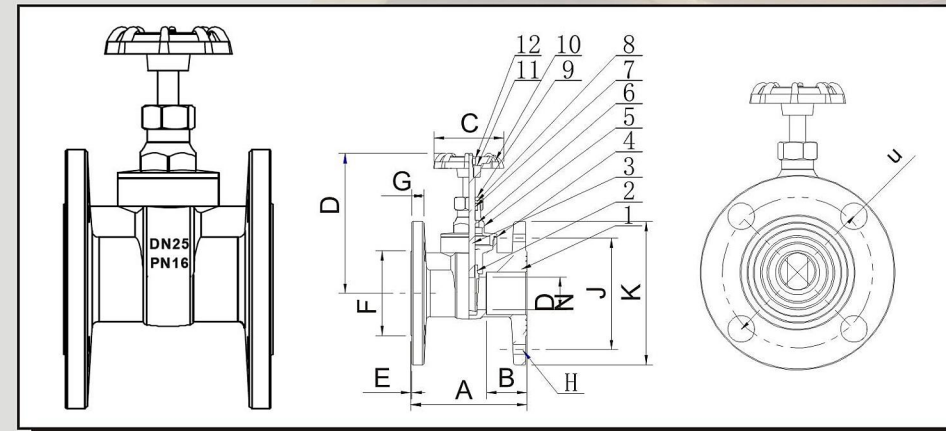
Kegunaan, memiliki extra untuk memudahkan penggunaan Seal tape pada sambungan fitting pipa kran. Diproduksi khusus untuk ketahanan lebih pada fitting bertekanan tinggi.



SEAL TAPE KUNING

Kegunaan, ketebalan & ketahanan extra untuk mencegah kebocoran. Perbedaan warna untuk informasi secara visual untuk PIPA / FITTING yang berisi gas.

GATE VALVE FLANGE BRASS 10K



Dimensions

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

Materials

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

Y STRAINER CAST IRON JIS 10K

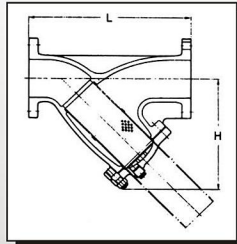


Fig. 10FCJ (Bronze mounted)
Fig. 10FCJS (13 Cr. mounted)
Fig. 10FCJU (18-8 mounted)



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

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



60°C WOG (12" & smaller).....14 kgf / cm²
60°C Water, oil, gas.....8.8 kgf / cm²
Saturated steam.....7 kgf / cm²
Hydrostatic shell test.....21 kgf / cm²

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 Dimensions

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

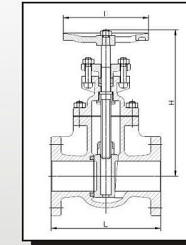
Dimensions

Valve size	mm	50	65	80	100	125	150	200	250	300
		inch	2	2-1/2	3	4	5	6	8	10
L Face - to face		230	305	360	415	465	515	580	680	800
H Height		127	212	242	284	325	370	440	515	600

GATE VALVE CAST IRON JIS 5K



Flanged ends	JIS B2211
Design Standards	JIS F7363



Working Pressure.....6 kgf / cm²
Hydrostatic shell test.....10.6 kgf / cm²
Hydrostatic seat test.....7.7 kgf / cm²

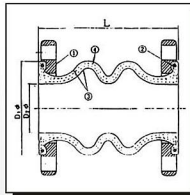
Materials

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

Dimensions

DN	mm	40	50	65	80	100	125	150
		inch	1-1/2	2	2-1/2	3	4	5
L		140	180	190	200	230	250	270
H		220	250	285	335	391	449	495
D		140	140	160	160	180	225	225

FLANGE 2 BELOWS JIS 10K (FLEXIBLE RUBBER JOINT)



Materials

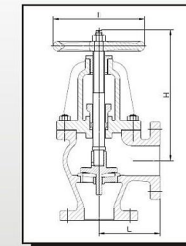
No.	Parts	JIS materials	Nominal Dia.	Dimension [mm]	
				mm	inch
1.	Flange	Mild Steel	40	1-1/2	175
2.	Reinforcing Ring	Carbon Steel	50	2	175
3.	Inner Rubber	Synthetic Rubber	65	2-1/2	175
4.	Outer Rubber	Synthetic Rubber	80	3	175
			100	4	225
			125	5	225
			150	6	225
			200	8	225

* Standard item employs JIS 10 kg/cm² flange. Maybe replaced with ANSI, BS, DIN, and other standard (drilling)

ANGLE VALVE CAST IRON JIS 5K



Flanged ends	JIS B2211
Design Standards	JIS F7306



Working Pressure.....6 kgf / cm²
Hydrostatic shell test.....10.6 kgf / cm²
Hydrostatic seat test.....7.7 kgf / cm²

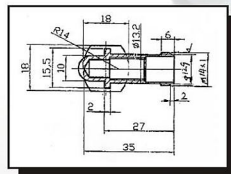
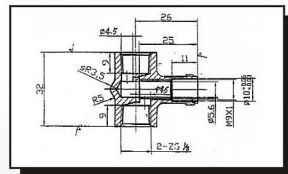
Materials

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

Dimensions

DN	mm	40	50	65	80	100	125	150
		inch	1-1/2	2	2-1/2	3	4	5
L		85	100	115	130	150	170	190
H		199	219	233	251	279	308	358
D		140	160	180	200	220	250	300

NEEDLE VALVE



Material	Valve Type	End Connction	Valve Class	Size Range (Inch)
Brass	Needle Valve	S,€	125 - 200	1/4 - 3/8