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W&O

JIS & DIN METRIC



The Right Fit.

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MARINE VALVES • FLANGES • FITTINGS • PIPE • TUBING

JIS METRIC DIMENSIONS

JAPANESE SPECIFICATION



BRONZE GATE
5K F-7367
10K F-7368



BRONZE GLOBE
5K F-7301
16K F-7303



BRONZE ANGLE
5K F-7302
16K F-7304



BRONZE HOSE VALVE
5K F-7334
10K F-7334



CI/NCI GATE
5K F-7363
10K F-7364



CI/NCI GLOBE
5K F-7305
10K F-7307



CI/NCI ANGLE
5K F-7306
10K F-7308



CI/NCI CHECK
5K F-7372
10K F-7373



CAST STEEL GATE
10K F-7366



CAST STEEL GLOBE
5K F-7311
10K F-7319
20K F-7313



CAST STEEL ANGLE
5K F-7312
10K F-7320
20K F-7314



STORM VALVE
5K F-3059

ADDITIONAL ITEMS



JIS BUTTERFLY VALVE



BRONZE UNION END GLOBE & ANGLE
20K F-7388
F-7389



BRONZE THREADED GLOBE & ANGLE
5K B-2011
B-2012
10K B-2021
B-2022



BRONZE COCK
5K F-7387



METRIC BITE-TYPE COMPRESSION FITTING
BRASS, STEEL, OR STAINLESS
DIN 2353

PIPE DIMENSIONS

SIZE		STEEL			COPPERNICKEL		
INCH	MM	IPS	DIN	JIS	IPS	DIN	IMPERIAL
1/8	6	10.3	10.2	10.5	10.3	-	-
1/4	8	13.7	13.5	13.8	13.7	14.0	-
3/8	10	17.1	17.2	17.3	17.1	16.0	-
1/2	15	21.3	21.3	21.7	21.3	20.0	15.1
3/4	20	26.7	26.9	27.2	26.7	25.0	21.5
1	25	33.4	39.7	34.0	33.4	30.0	28.2
1-1/4	32	42.2	42.4	42.7	42.2	38.0	34.6
1-1/2	40	48.3	48.3	48.6	48.3	44.5	40.9
2	50	60.3	60.3	60.5	60.3	57.0	54.1
2-1/2	65	73.0	76.1	76.3	73.0	76.1	66.8
3	80	88.9	88.9	89.1	88.9	88.9	79.9
3-1/2	90	101.6	101.6	101.6	101.6	-	93.0
4	100	114.3	114.3	119.3	114.3	108.0	106.3
5	125	141.3	139.7	139.8	141.3	133.0	131.7
6	150	168.3	168.3	165.2	168.3	159.0	157.6
7	175	193.7	193.7		193.7	193.7	183.1
8	200	219.1	219.1	216.3	219.1	219.1	208.5
10	250	273.1	273.0	267.4	273.1	267.0	260.5
12	300	323.9	323.9	318.5	323.9	323.9	312.1
14	350	355.6	355.6	355.6	355.6	368.0	363.7
16	400	406.4	406.4	406.4	406.4	419.0	414.5
18	450	457.2	457.2	457.2	457.2	457.2	465.3
20	500	508.00	508.00	508.00	508.00	508.00	516.9

DIMENSIONS = OUTSIDE DIAMETER IN MM

In-House Class Society Certification Testing Is Available Upon Request.

DIMENSIONS

METRIC FLANGE DIMENSIONS

NOM DIA (MM)	DIN PN6	DIN PN10	DIN PN16	DIN PN25	DIN PN40	JIS 5K	JIS 10K	JIS 16K	JIS 20K	JIS 40K	NOM DIA (MM)
10	75 50 4 x 11	90 60 4 x 14	90 60 4 x 14	90 60 4 x 14	90 60 4 x 14	75 55 4 x 12	90 65 4 x 15	90 65 4 x 15	90 65 4 x 15	110 75 4 x 19	10
15	80 55 4 x 11	95 65 4 x 14	95 65 4 x 14	95 65 4 x 14	95 65 4 x 14	80 60 4 x 12	95 70 4 x 15	95 70 4 x 15	95 70 4 x 15	115 80 4 x 19	15
20	90 65 4 x 11	105 75 4 x 14	105 75 4 x 14	105 75 4 x 14	105 75 4 x 14	85 65 4 x 12	100 75 4 x 15	100 75 4 x 15	100 75 4 x 15	120 85 4 x 19	20
25	100 75 4 x 11	115 85 4 x 14	115 85 4 x 14	115 85 4 x 14	115 85 4 x 14	95 75 4 x 12	125 90 4 x 19	125 90 4 x 19	125 90 4 x 19	130 95 4 x 19	25
32	120 90 4 x 14	140 100 4 x 18	140 100 4 x 18	140 100 4 x 18	140 100 4 x 18	115 90 4 x 15	135 100 4 x 19	135 100 4 x 19	135 100 4 x 19	140 105 4 x 19	32
40	130 100 4 x 14	150 110 4 x 18	150 110 4 x 18	150 110 4 x 18	150 110 4 x 18	120 95 4 x 15	140 105 4 x 19	140 105 4 x 19	140 105 4 x 19	160 120 4 x 23	40
50	140 110 4 x 14	165 125 4 x 18	165 125 4 x 18	165 125 4 x 18	165 125 4 x 18	130 105 4 x 15	155 120 4 x 19	155 120 8 x 19	155 120 8 x 19	165 130 8 x 19	50
65	160 130 4 x 14	185 145 4 x 18	185 145 4 x 18	185 145 8 x 18	185 145 8 x 18	155 130 4 x 15	175 140 4 x 19	175 140 8 x 19	175 140 8 x 19	200 160 8 x 23	65
80	190 150 4 x 18	200 160 8 x 18	200 160 8 x 18	200 160 8 x 18	200 160 8 x 18	180 145 4 x 19	185 150 8 x 19	200 160 8 x 23	200 160 8 x 23	210 170 8 x 23	80
100	210 170 4 x 18	220 180 8 x 18	220 180 8 x 18	235 190 8 x 22	235 190 8 x 22	200 165 8 x 19	210 175 8 x 19	225 185 8 x 23	225 185 8 x 23	250 205 8 x 25	100
125	240 200 8 x 18	250 210 8 x 18	250 210 8 x 18	270 220 8 x 26	270 220 8 x 26	235 200 8 x 19	250 210 8 x 23	270 225 8 x 25	270 225 8 x 25	300 250 8 x 27	125
150	265 225 8 x 18	285 240 8 x 22	285 240 8 x 22	300 250 8 x 26	300 250 8 x 26	265 230 8 x 19	280 240 8 x 23	305 260 12 x 25	305 260 12 x 25	355 295 12 x 33	150
175		315 270 8 x 22	315 270 8 x 22	330 280 12 x 26	350 295 12 x 30	300 260 8 x 23	305 265 12 x 23				175
200	320 280 8 x 18	340 295 8 x 22	340 295 12 x 22	360 310 12 x 26	375 320 12 x 30	320 280 8 x 23	330 290 12 x 23	350 305 12 x 25	350 305 12 x 25	405 345 12 x 33	200
250	375 335 12 x 18	395 350 12 x 22	405 355 12 x 26	425 370 12 x 30	450 385 12 x 33	385 345 12 x 23	400 355 12 x 25	430 380 12 x 27	430 380 12 x 27	475 410 12 x 33	250
300	440 395 12 x 22	445 400 12 x 22	460 410 12 x 26	485 430 16 x 30	515 450 16 x 33	430 390 12 x 23	445 400 16 x 25	480 430 16 x 27	480 430 16 x 27	540 470 16 x 39	300
350	490 445 12 x 22	505 460 16 x 22	520 470 16 x 26	555 490 16 x 33	580 510 16 x 36	480 435 12 x 25	490 445 16 x 25	540 480 16 x 33	540 480 16 x 33	585 515 16 x 39	350
400	540 495 16 x 22	565 515 16 x 26	580 525 16 x 30	620 550 16 x 36	660 585 16 x 39	540 495 16 x 25	560 510 16 x 27	605 540 16 x 33	605 540 16 x 33	645 570 16 x 39	400

FLANGE DIAMETER
BOLT CIRCLE DIAMETER (PITCH)
BOLT HOLES x HOLE DIAMETER

1 INCH = 25.4 MM
1 MM = .03937 INCH

DIMENSIONS FOR JAPANESE METRIC IRON & STEEL VALVES

Description	Size	Face To Face	Flange Diameter	Bolt Circle	No. Holes
5K IBBM Gate Flgd NRS w/ Indicator JIS F-7363	50	180	130	105	4
	65	190	155	130	4
	80	200	180	145	4
	100	230	200	165	8
	125	250	235	200	8
	150	270	265	230	8
10K IBBM Gate Flgd NRS w/ Indicator JIS F-7364	200	290	320	280	8
	250	330	385	345	12
	300	370	430	390	12
	50	200	155	120	4
	65	220	175	140	4
	80	230	185	150	8
5K IBBM Globe Flgd JIS F-7305 5K CS Globe Flgd	100	250	210	175	8
	125	270	250	210	8
	150	290	280	240	8
	200	320	330	290	12
	250	380	400	355	12
	300	440	445	400	16
10K IBBM Globe Flgd JIS F-7307 10K CS Globe Flgd JIS F-7319	50	210	130	105	4
	65	250	155	130	4
	80	280	180	145	4
	100	340	200	165	8
	125	410	235	200	8
	150	480	265	230	8
5K IBBM Angle Flgd JIS F-7306	200	570	320	280	8
	250	740	385	345	12
	50	220	155	120	4
	65	270	175	140	4
	80	300	185	150	8
	100	350	210	175	8
10K IBBM Angle Flgd JIS F-7308 10K CS Angle Flgd JIS F-7320	125	420	250	210	8
	150	490	280	240	8
	200	570	330	290	12
	250	740	400	355	12
	50	100	130	105	4
	65	115	155	130	4
10K IBBM Angle Flgd JIS F-7308 10K CS Angle Flgd JIS F-7320	80	130	180	145	4
	100	150	200	165	8
	125	170	235	200	8
	150	190	265	230	8
	200	220	320	280	8
	50	120	155	120	4
10K IBBM Angle Flgd JIS F-7308 10K CS Angle Flgd JIS F-7320	65	130	175	140	4
	80	150	185	150	8
	100	160	210	175	8
	125	180	250	210	8
	150	205	280	240	8
	200	230	330	290	12

DIMENSIONS

DIMENSIONS

DIMENSIONS FOR JAPANESE METRIC BRONZE VALVES

Description	Size	Face To Face	Flange Diameter	Bolt Circle	No. Holes
5K Bronze Gate Flgd JIS F-7367	15	90	80	60	4
	20	100	85	65	4
	25	110	95	75	4
	32	130	115	90	4
	40	140	120	95	4
10K Bronze Gate Flgd JIS F-7368	15	100	95	70	4
	20	110	100	75	4
	25	120	125	90	4
	32	140	135	100	4
	40	150	140	105	4
5K Bronze Globe Flgd JIS F-7301	15	100	80	60	4
	20	110	85	65	4
	25	120	95	75	4
	32	140	115	90	4
	40	160	120	95	4
16K Bronze Globe Flgd JIS F-7303	15	110	95	70	4
	20	120	100	75	4
	25	130	125	90	4
	32	160	135	100	4
	40	180	140	105	4
5K Bronze Angle Flgd JIS F-7302	15	55	80	60	4
	20	60	85	65	4
	25	65	95	75	4
	32	80	115	90	4
	40	85	120	95	4
16K Bronze Angle Flgd JIS F-7304	15	70	95	70	4
	20	75	100	75	4
	25	85	125	90	4
	32	95	135	100	4
	40	100	140	105	4

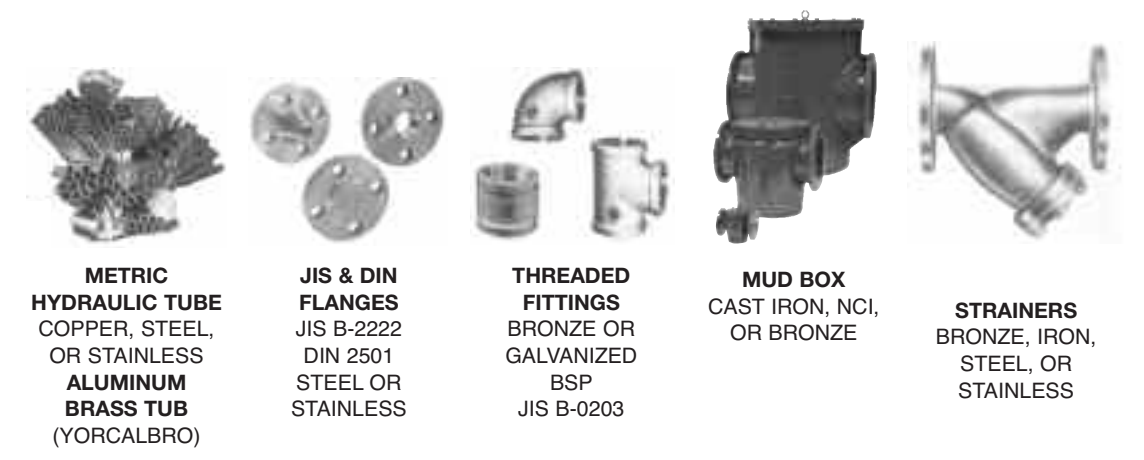
Also Available:

- 5K JIS Bronze Flgd Hose Valves F-7334
- 16K Bronze Thrd x Union Plug Cocks F-7387
- 20K Bronze Thrd x Union Globe Valves F-7388

EUROPEAN SPECIFICATION



ADDITIONAL ITEMS



In-House Class Society Certification Testing Is Available Upon Request.

DIM METRIC

DIMENSIONS FOR EUROPEAN METRIC BRONZE VALVES

Description	Size	Face To Face	Flange Diameter	Bolt Circle	No. Holes
PN16 Bronze Gate Flgd Threaded Bonnet	15	75	95	65	4
	20	75	105	75	4
	25	80	115	85	4
	32	90	140	100	4
	40	100	150	110	4
	50	110	165	125	4
	65	130	185	145	4
PN10 Bronze Gate Flgd Bolted Bonnet	50	150	165	125	4
	65	170	185	145	4
	80	180	200	160	8
	100	190	220	180	8
	125	200	250	210	8
	150	210	285	240	8
	200	230	340	295	8
PN10 Bronze Globe Flgd Union Bonnet	15	70	95	65	4
	20	80	105	75	4
	25	90	115	85	4
	32	105	140	100	4
	40	120	150	110	4
	50	140	165	125	4
	65	180	185	145	4
PN10 Bronze Globe Flgd Bolted Bonnet	50	180/230	165	125	4
	65	200/290	185	145	4
	80	240/310	200	160	8
	100	270/350	220	180	8
	125	320/400	250	210	8
	150	370/480	285	240	8
	200	500/600	340	295	8
PN10 Bronze Angle Flgd Bolted Bonnet	50	105/125	165	125	4
	65	115/145	185	145	4
	80	125/155	200	160	8
	100	145/175	220	180	8
	125	170/200	250	210	8
	150	200/225	285	240	8
	200	225/275	340	295	8
250	250/325	395	350	12	

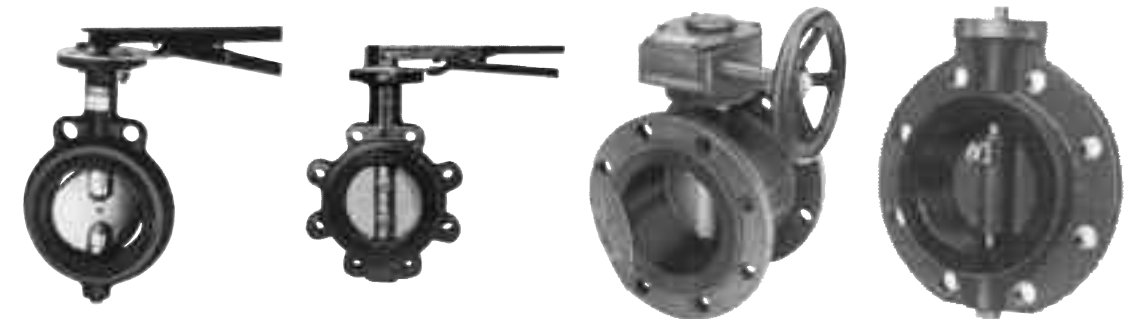
RESILIENT SEATED ANSI & METRIC

Sizes: 1 1/2" to 54", 40mm to 700mm

Valves are stocked to European DIN, Japanese JIS as well as US ANSI and Navy standards. Flanges to suit each also stocked.

There is a wide range of choices of types and configurations of these valves. Most common is wafer or lug style in cast iron body, with bronze, monel or stainless steel disc and buna or EPDM seat. Operation by lever or mechanical gear. Another typical choice: Wafer or lug style in ductile iron or bronze body.

By specifying line medium + service application, recommendations can be made. In the case of mechanical actuation, line pressure should be identified.



WAFER STYLE
CI/NCI, STEEL, BRONZE,
OR ALUMINUM

LUG STYLE
CI/NCI, STEEL,
OR BRONZE

FLANGED
CI/NCI OR CAST STEEL

**MONOFLANGE STYLE
TO DIN**
UNTAPPED BOLTHOLES

All of the above valves are typically supplied with Buna liner unless otherwise specified. See following for additional liner.

BUNA	Suitable for salt water, oil, and general purposes	Max. temp. 180° F
EPDM	Suitable for salt water and steam (not oil)	Max. temp. 250° F
VITON	Suitable for aromatics (e.g. gasoline) and steam	Max. temp. 300° F
HYPALON	Specific chemical applications	Max. temp. 180° F
TEFLON	Specific chemical applications	Max. temp. 250° F
METAL		

Please specify mating flange standard: ANSI, DIN PN6, DIN PIN10, DIN PIN16, JIS 5K, JIS 10K

Sizes: 2" to 36"

Design Description

Wafer checks are designed to fit within the bolting circle of joining flanges and are rated to match the flange rating: 125/150, 250/300, 600 LB. Wafer checks are typically of three types: Duo-Check, Swing Check and Silent Check, and have resilient or metal-to-metal seating. Metric sizes available.

Duo-Checks are designed with two half circle discs or plates that hinge on a center hinge pin. The spring loaded plates are opened by the flow of the medium and close automatically. Duo-Checks are suitable for installation in any horizontal or vertical position.

Wafer swing checks operate similarly to standard swing checks with the single disc hinged at the top closing by gravity. Wafer swing checks can be supplied with internal or external springs or outside lever to facilitate closing.

Silent checks are designed to bolt between joining flanges in vertical installations. The flow lifts the disc which will close by gravity as pressure/flow stops. The check mechanism is typically spring loaded to protect against water hammer problems. Silent checks are typically metal seated.

BODY	DISC	RESILIENT SEAT	METAL SEAT
BRONZE, CAST STEEL, CAST IRON, OR STAINLESS STEEL	STAINLESS STEEL, MONEL, BRONZE, CAST IRON, OR CAST STEEL	BUNA-N, EDPM, TEFLON, VITON, OR NEOPRENE	BRONZE OR STAINLESS



DUO CHECK
IRON, STEEL,
BRONZE, OR STAINLESS



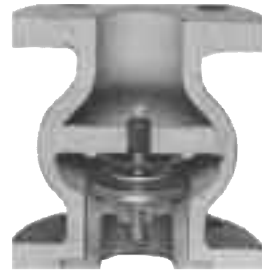
WAFFER SWING CHECK
IRON, STEEL, BRONZE,
OR STAINLESS



**THIN WAFFER STYLE
SWING CHECK**
STEEL, BRONZE,
OR STAINLESS



SILENT CHECK
IRON, STEEL,
OR BRONZE



SILENT CHECK GLOBE
IRON, STEEL,
OR BRONZE

**DIMENSIONS FOR
EUROPEAN METRIC IRON & STEEL VALVES**

Description	Size	Face To Face	Flange Diameter	Bolt Circle	No. Holes	
PN6 IBBM Gate Flgd NRS	40	140	130	100	4	
	50	150	140	110	4	
	65	170	160	130	4	
	80	180	190	150	4	
	100	190	210	170	4	
	125	200	240	200	8	
	150	210	265	225	8	
	200	230	320	280	8	
	250	250	375	335	12	
	300	270	440	395	12	
350	290	490	445	12		
PN10 IBBM Gate Flgd NRS	40	140	150	110	4	
	50	150	165	125	4	
	65	170	185	145	4	
	80	180	200	160	8	
	100	190	220	180	8	
	125	200	250	210	8	
	150	210	285	240	8	
	175	220	315	270	8	
	200	230	340	295	8	
	250	250	395	350	12	
PN10 CS Gate Flgd NRS Bronze Trim	300	270	445	400	12	
	350	290	505	460	12	
	PN16 IBBM Globe Flgd NRS	32	180	140	100	4
		40	200	150	110	4
		50	230	165	125	4
		65	290	185	145	4
		80	310	200	160	8
		100	350	220	180	8
		125	400	250	210	8
		150	480	285	240	8
175		550	315	270	8	
200		600	340	295	12	
PN16 CS Globe Flgd NRS Bronze Trim	250	250	395	350	12	
	300	270	445	400	12	
	350	290	505	460	12	
	PN40 CS Globe Flgd Stainless Steel Trim	15	130	95	65	4
		20	150	105	75	4
		25	160	115	85	4
		32	180	140	100	4
		40	200	150	110	4
		50	230	165	125	4
		65	290	185	145	8
80		310	200	160	8	
100		350	235	190	8	
125		400	270	220	8	
150	480	300	250	8		
200	600	375	320	12		