

JIS / KIS BRONZE AND STEEL VALVES AND FLANGES PRESSURE TEMPERATURE AND TEST PRESSURE RATINGS

JIS VALVES UP TO 2 - MAXIMUM WORKING PRESSURE [kPa]

FORMER STANDARD	TYPE	MATERIAL	DESIGNATION	FLUID TEMPERATURE								FLUID TYPE	TEST PRESSURE
-	GATE, GLOBE, CHECK VALVES (JIS B 2011 BRONZE GATE, GLOBE AND CHECK VALVES)	BRONZE	10K	/	to 120°C	185 °C	220°C	300°C	350°C	400°C	425°C	-	Body : 1.5 x Max. Pressure Seat : 1.1 x Max. Pressure
				-	980	-	-	-	-	-	-	Oil, Gas, Air, Pulsating flow and Saturated Vapour	
				-	1370	-	-	-	-	-	-	Still Water	
JIS F 7368 : 1996 BRONZE 10K RISING STEM GATE VALVES	GATE VALVES - RISING STEM (JIS F 7427 BRONZE VALVES FOR SHIP)	BRONZE	10K	/	to 120°C	185 °C	to 205°C	300°C	350°C	400°C	425°C	-	Body : 2100 Seat : 1540
				-	1400	-	-	-	-	-	-	Still Water	
				-	-	-	1200	-	-	-	-	Steam	
JIS F 7409 BRONZE 16K GLOBE VALVES	SCREW-DOWN CHECK GLOBE VALVES (JIS F 7427 BRONZE VALVES FOR SHIP)	BRONZE	16K	/	to 120°C	185 °C	to 205°C	300°C	350°C	400°C	425°C	-	Body : 3300 Seat : 2420
				-	-	-	1600	-	-	-	-	Steam, Air, Gas oil and Pulsating Water	
				-	2200	-	-	-	-	-	-	Still Water	
JIS F 7388 BRONZE 20K GLOBE VALVES	GLOBE VALVES (JIS F 7427 BRONZE VALVES FOR SHIP)	BRONZE	20K	/	to 120°C	185 °C	to 205°C	300°C	350°C	400°C	425°C	-	Body : 4200 Seat : 3080
				-	-	-	1600	-	-	-	-	Steam	
				-	2800	-	-	-	-	-	-	Still Water	
JIS F 7319 : 1996 CAST STEEL 10K GLOBE VALVES & JIS F 7471 : 1996 CAST STEEL 10K SCREW-DOWN CHECK GLOBE VALVES	GLOBE VALVES & SCREW-DOWN CHECK GLOBE VALVES (JIS F 7426 SHIPBUILDING - CAST STEEL VALVES)	CAST STEEL	10K	/	to 120°C	185 °C	to 200°C	300°C	350°C	400°C	425°C	-	Body : 2100 Seat : 1540
				-	-	-	-	1000	-	-	-	Steam	
				-	-	-	1200	-	-	-	-	Steam, Air, Gas oil and Pulsating Water	
JIS F 7473 : 1996 CAST STEEL 20K SCREW-DOWN CHECK GLOBE VALVES	GLOBE VALVES & SCREW-DOWN CHECK GLOBE VALVES (JIS F 7426 SHIPBUILDING - CAST STEEL VALVES)	CAST STEEL	20K	/	to 120°C	185 °C	to 200°C	300°C	350°C	400°C	425°C	-	Body : 5000 Seat : 3670
				-	-	-	-	-	-	2300	-	Steam	
				-	-	-	-	-	2600	-	-	Steam	
JIS F 7421 : 1996 FORGED STEEL 20K GLOBE VALVES	GLOBE VALVES (JIS F 7428 SHIPBUILDING - FORGED STEEL 20K GLOBE VALVES)	FORGED STEEL	20K	/	to 120°C	185 °C	to 200°C	300°C	350°C	400°C	425°C	-	Body : 5100 Seat : 3740
				-	-	-	-	-	2600	-	-	Steam	
				-	-	-	-	2900	-	-	-	Steam	
-	WAFER TYPE - BUTTERFLY VALVES (JIS B 2032 WAFER TYPE RUBBER SEATED BUTTERFLY VALVES)	STEEL	10K	0 to 90°C	to 120°C	185 °C	to 200°C	300°C	350°C	400°C	425°C	-	Body : 3 x Max. Pressure Seat : 1.1 x Max. Pressure
				-	690	-	-	-	-	-	-	Salt Water, Fresh Water, Oil	
				-	980	-	-	-	-	-	-		
-	BUTTERFLY VALVES (JIS F 7480 RUBBER SEATED BUTTERFLY VALVES)	CARBON STEEL	10K	0 to 90°C	to 120°C	185 °C	to 200°C	300°C	350°C	400°C	425°C	-	Body : 4 x Max. Pressure Seat : 1.5 x Max. Pressure
				-	1000	-	-	-	-	-	-	Salt Water, Fresh Water, Oil	
				-	1600	-	-	-	-	-	-		

Note : According to ISO 7268, PN16 - 16K and PN25 - 20K

JIS FLANGES - MAXIMUM WORKING PRESSURE [kPa]

STANDARD / MATERIAL	DESIGNATION	FLUID TEMPERATURE							
JIS B 2220		/	to 120°C	185 °C	220°C	300°C	350°C	400°C	425°C
CARBON STEEL STAINLESS STEEL	10K	-	1400	-	1200	1000	-	-	-
	16K	-	2700	-	2500	2300	2100	1800	1600
	20K	-	3400	-	3100	2900	2600	2300	2000
JIS B 2239		/	-10°C to 120°C	185 °C	220°C	300°C	350°C	400°C	425°C
CAST IRON	10K	-	1400	-	1000	-	-	-	-
	16K	-	2200	-	1600	-	-	-	-
	20K	-	2800	-	2000	-	-	-	-
DUCTILE IRON	10K	-	1400	-	1200	1000	-	-	-
	16K	-	2200	-	2000	1800	1600	-	-
	20K	-	2800	-	2500	2300	2000	-	-
JIS B 2240		/	to 120°C	185 °C	220°C	300°C	350°C	400°C	425°C
COPPER ALLOY	10K	-	1370	1180	980	-	-	-	-
	16K	-	2160	1860	1570	-	-	-	-
JIS B 2241		-268°C to 65°C	to 120°C	185 °C	220°C	300°C	350°C	400°C	425°C
ALLUMINIUM ALLOY	10K	1000	-	-	-	-	-	-	-
	16K	1900	-	-	-	-	-	-	-

[Australian Pipeline Valve](#) manufacturers bronze valves. [Global Supply Line](#) is our major stockist of aluminium & bronze valves in undrilled ASME and JIS undrilled.

~ Fast Track Valve Manufacturer ~

Australian Pipeline Valve provides this technical information to assist the valve community. Please share and refer us to any specifiers or purchasers of valves/actuators within your network.

Follow this link for the online stock list <https://www.globalsupplyline.com.au/stock-list-valves/>

© Copyright Australian Pipeline Valve 2025