



BUTTERFLY VALVES DIMENSIONS-API609-BS5155

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		U. S. A. – API									
		API 609:2024									
		PETROLEUM INDUSTRY									
NPS [mm]	NPS [in]	CATEGORY A MANUFACTURER'S RATED CWP, USUALLY WITH A CONCENTRIC DISC AND SEAT CONFIGURATION				CATEGORY B ASME CLASS AND PRESSURE-TEMPERATURE-RATED BUTTERFLY VALVES THAT HAVE AN OFFSET SEAT AND EITHER AN ECCENTRIC OR A CONCENTRIC DISC CONFIGURATION					
		JIS B 2002 SERIES 46	DOUBLE-FLANGED LONG PATTERN			JIS B 2002 SERIES 42	JIS B 2002 SERIES 1	DIN 3202 F4	BS 5155 MEDIUM ^a	EN 558 SERIES 109	EN 558 SERIES 110
		EN 558 SERIES 20				EN 558 SERIES 13		ISO 5752 LONG SERIES	ASME B16.10		
		BS 5155 SHORT				BS 5155 SHORT SERIES ^b		BS 5155 LONG	MSS SP-68		
		LUG AND WAFER TYPE				DOUBLE-FLANGED SHORT PATTERN			LUG AND WAFER TYPE		
		CLASS 125/150	CLASS 150	CLASS 300	CLASS 600	CLASS 150	CLASS 300	CLASS 600	CLASS 150	CLASS 300	CLASS 600
10	3/8	—	—	—	—	—	—	—	—	—	—
15	1/2	—	—	—	—	—	—	—	—	—	—
20	3/4	—	—	—	—	—	—	—	—	—	—
25	1	—	—	—	—	—	—	—	—	—	—
32	1 1/4	—	—	—	—	—	—	—	—	—	—
40	1 1/2	—	—	—	—	—	—	—	—	—	—
50	2	43 ± 1.5	—	—	—	—	—	—	— ^a	— ^a	— ^a
65	2 1/2	46 ± 1.5	—	—	—	—	—	—	48 ± 3.3	48 ± 3.3	— ^a
80	3	46 ± 1.5	203 ± 3.3	282 ± 3.3	356 ± 3.3	114 ± 3.3	180 ± 3.3	180 ± 3.3	48 ± 3.3	48 ± 3.3	54 ± 3.3
100	4	52 ± 1.5	229 ± 3.3	305 ± 3.3	432 ± 3.3	127 ± 3.3	190 ± 3.3	190 ± 3.3	54 ± 3.3	54 ± 3.3	64 ± 3.3
125	5	56 ± 1.5	—	—	—	—	—	—	—	—	—
150	6	56 ± 1.5	267 ± 3.3	403 ± 3.3	559 ± 3.3	140 ± 3.3	210 ± 3.3	210 ± 3.3	57 ± 3.3	59 ± 3.3	78 ± 3.3
175	7	—	—	—	—	—	—	—	—	—	—
200	8	60 ± 3.3	292 ± 3.3	419 ± 3.3	660 ± 3.3	152 ± 3.3	230 ± 3.3	230 ± 3.3	64 ± 3.3	73 ± 3.3	102 ± 3.3
250	10	68 ± 3.3	330 ± 3.3	457 ± 3.3	787 ± 3.3	165 ± 3.3	250 ± 3.3	250 ± 3.3	71 ± 3.3	83 ± 3.3	117 ± 3.3
300	12	78 ± 3.3	356 ± 3.3	502 ± 3.3	838 ± 3.3	178 ± 3.3	270 ± 3.3	270 ± 3.3	81 ± 3.3	92 ± 3.3	140 ± 3.3
350	14	78 ± 3.3	381 ± 3.3	762 ± 3.3	889 ± 3.3	190 ± 3.3	290 ± 3.3	290 ± 3.3	92 ± 3.3	117 ± 3.3	155 ± 3.3
400	16	102 ± 3.3	406 ± 3.3	838 ± 3.3	991 ± 3.3	216 ± 3.3	310 ± 3.3	310 ± 3.3	102 ± 3.3	133 ± 3.3	178 ± 3.3
450	18	114 ± 3.3	432 ± 3.3	914 ± 3.3	1092 ± 3.3	222 ± 3.3	330 ± 3.3	330 ± 3.3	114 ± 3.3	149 ± 3.3	200 ± 3.3
500	20	127 ± 3.3	457 ± 3.3	991 ± 3.3	1194 ± 3.3	229 ± 3.3	350 ± 3.3	350 ± 3.3	127 ± 3.3	159 ± 3.3	216 ± 3.3
550	22	—	—	—	—	—	—	—	—	—	—
600	24	154 ± 3.3	508 ± 4	1143 ± 4	1397 ± 4	267 ± 4	390 ± 4	390 ± 4	154 ± 3.3	181 ± 3.3	232 ± 3.3
650	26	—	559 ± 4	1245 ± 4	1448 ± 4	292 ± 4	410 ± 4	— ^a	— ^a	— ^a	— ^a
700	28	—	610 ± 4	1346 ± 4	1549 ± 4	292 ± 4	430 ± 4	— ^a	— ^a	— ^a	— ^a
750	30	165 ± 6.4	610 ± 4	1397 ± 4	1651 ± 4	318 ± 4	450 ± 4	— ^a	— ^a	— ^a	— ^a
800	32	—	660 ± 4	1524 ± 4	1778 ± 4	318 ± 4	470 ± 4	— ^a	— ^a	— ^a	— ^a
850	34	—	—	—	—	—	—	—	—	—	—
900	36	200 ± 6.4	711 ± 5	1727 ± 5	2083 ± 5	330 ± 5	510 ± 5	— ^a	— ^a	— ^a	— ^a
950	38	—	— ^a	— ^a	— ^a	410 ± 5	530 ± 5	— ^a	— ^a	— ^a	— ^a
1000	40	—	— ^a	— ^a	— ^a	410 ± 5	550 ± 5	— ^a	— ^a	— ^a	— ^a
1050	42	251 ± 6.4	— ^a	— ^a	— ^a	410 ± 6	570 ± 6	— ^a	— ^a	— ^a	— ^a
1100	44	—	—	—	—	—	—	—	—	—	—
1200	48	276 ± 6.4	— ^a	— ^a	— ^a	470 ± 6	630 ± 6	— ^a	— ^a	— ^a	— ^a
1250	50	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a
1350	54	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a
1400	56	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a
1500	60	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a	— ^a
1600	64	—	—	—	—	—	—	—	—	—	—
1650	66	—	—	—	—	—	—	—	—	—	—
1800	72	—	—	—	—	—	—	—	—	—	—
2000	80	—	—	—	—	—	—	—	—	—	—
2100	84	—	—	—	—	—	—	—	—	—	—
2200	88	—	—	—	—	—	—	—	—	—	—
2400	96	—	—	—	—	—	—	—	—	—	—
2600	104	—	—	—	—	—	—	—	—	—	—
2800	112	—	—	—	—	—	—	—	—	—	—
3000	120	—	—	—	—	—	—	—	—	—	—
3200	128	—	—	—	—	—	—	—	—	—	—
3400	136	—	—	—	—	—	—	—	—	—	—
3600	144	—	—	—	—	—	—	—	—	—	—
3800	152	—	—	—	—	—	—	—	—	—	—
4000	160	—	—	—	—	—	—	—	—	—	—

BLUE LETTERS INDICATE MIRRORED VALUES

RED ITALIC LETTERS INDICATE HISTORICAL ORIGIN

REFERENCED STANDARDS

API 609 BUTTERFLY VALVES: DOUBLE-FLANGED, LUG- AND WAFER-TYPE, AND BUTT-WELDING ENDS

ASME 16.10 FACE-TO-FACE AND END-TO-END DIMENSIONS OF VALVES

MSS SP-67 BUTTERFLY VALVES

MSS SP-68 HIGH PRESSURE BUTTERFLY VALVES WITH OFFSET DESIGN

EN 558 INDUSTRIAL VALVES - FACE-TO-FACE AND CENTER-TO-FACE DIMENSIONS OF METAL VALVES FOR USE IN FLANGED PIPE SYSTEMS - PN AND CLASS DESIGNATED VALVE
ISO 5752 METAL VALVES FOR USE IN FLANGED PIPE SYSTEMS - FACE-TO-FACE AND CENTER-TO-FACE DIMENSIONS
JIS B 2002 FACE-TO-FACE AND END-TO-END DIMENSIONS OF VALVES
AWWA C504 RUBBER-SEATED BUTTERFLY VALVES, 3In. (75mm) THROUGH 72In. (1,800 mm)
BS 3202 FACE-TO-FACE AND CENTRE-TO-CENTRE DIMENSIONS - FLANGED VALVES
BS 5155 SPECIFICATION FOR BUTTERFLY VALVES
DIN 3202 PART 1 FACE-TO-FACE AND CENTRE-TO-FACE DIMENSIONS FLANGED VALVES

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