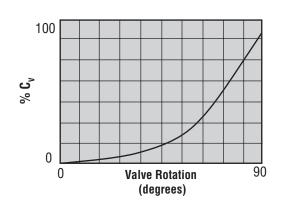


Round Port Control Valves



For applications involving moderate pressure drops and temperatures, Flowserve offers standard round port control valves in three-piece, wafer, and flanged valve body configurations. Standard seat material is Polyfill® with other resilient materials available. Shutoff is bubbletight. Control characteristic is equal percentage.





How To Order

Standard (Round Seat) Control Valves

Valve Size	Valve Series	Body, Pipe Ends	Ball & Stem	Round Port Seats	Body Seals	End Connection
14" 96" 12" 34" 1" 114" 11/2"	S44 - Three-piece ANSI Class 600	1 - Brass 4 - Carbon Steel 6 - 316 Stainless Steel	6 - Stainless Steel Ball with 17-4 Stainless Steel Stem	P - Polyfill	M - TFE coated 316 Stainless Steel "S" Gasket	SE - Screwed Ends (NPT) SW - Socket Weld Ends (Carbon Steel and S.S only) BW1 - Butt Weld 316L Stainless Steel, Sch. 10 BW4 - Butt Weld Carbon Steel, Sch. 40 TE - Solder/Sweat Ends Brass only
1½" 3¼" 1" 1½"	S51 - Flanged ANSI Class 150 S52 - Flanged ANSI Class 300	4 - Carbon Steel 6 - 316 Stainless Steel	6 - Stainless Steel Ball with 17-4 Stainless Steel Stem	P - Polyfill	T - TFE	150 - ANSI Class 150 (51) 300 - ANSI Class 300 (52)
3" 4" 6"	4 - Wafer	4 - Carbon Steel 6 - 316 Stainless Steel	6 - Stainless Steel Ball and Stem	P - Polyfill	T - TFE	151 - For use between 150 lb. ANSI flanges 301 - For use between 300 lb. ANSI flanges
3" 4" 6" 8" 10"	51 - Flanged ANSI Class 150 52 - Flanged ANSI Class 300	4 - Carbon Steel 6 - 316 Stainless Steel	6 - Stainless Steel Ball and Stem	P - Polyfill (3" - 6") R - Reinforced TFE (8" & 10")	T - TFE	150 - ANSI Class 150 (51) 300 - ANSI Class 300 (52)



Selection/Sizing Information

Flow Coefficient - C, - Standard Seat Control Valves (Round Port)

Valve Size	Line Size	0 (0)	10 (9)	20 (18)	30 (27)	40 (36)	50 (45)	60 (54)	70 (63)	80 (72)	90 (81)	100 (90)
1/2"	½ ¾ 1	0	.15 .13 .13	.29 .26 .24	.46 .39 .38	.70 .62 .58	1.09 .97 .90	1.76 1.57 1.46	2.60 2.31 2.16	4.30 3.83 3.57	6.40 5.69 5.31	8.00 7.12 6.64
3/4"	3/4 1 11/2	0	.21 .19 .17	.43 .39 .34	.70 .64 .56	1.05 .96 .84	1.62 1.47 1.30	2.64 2.40 2.11	4.00 3.64 3.20	6.40 5.82 5.12	9.60 8.74 7.68	12.00 10.92 9.60
1"	1 ½ 2	0	.58 .45 .42	1.15 .90 .83	1.90 1.48 1.37	2.80 2.18 2.02	4.30 3.35 3.10	7.00 5.46 5.04	10.50 8.19 7.56	17.0 13.3 12.24	26.0 20.3 18.7	32.0 24.9 23.1
11/4"	1¼ 1½ 2	0	.83 .77 .68	1.65 1.53 1.35	2.67 2.48 2.19	4.05 3.77 3.32	6.50 6.05 5.33	10.0 9.30 8.20	15.2 14.14 12.46	24.6 22.9 20.2	36.0 33.5 29.5	46.0 42.8 37.7
1½"	1½ 2 3	0	1.48 1.24 .99	2.95 2.48 2.00	4.75 3.99 3.18	7.20 6.05 4.82	11.0 9.2 7.4	18.0 15.1 12.06	27.0 22.7 18.1	44.0 36.9 29.5	65.5 55.0 43.9	82.0 68.9 54.9
2"	2 3 4	0	2.16 1.77 1.6	4.33 3.55 3.20	6.95 5.70 5.14	10.5 8.61 7.77	16.2 13.3 11.99	26.4 21.6 19.5	39.6 32.5 29.3	64.0 52.5 47.4	96.0 78.7 71.1	120 98.4 88.8
3"	3 4 6	0	6.4 4.6 3.5	12.6 9.1 6.9	20.2 14.5 11.1	31.1 22.4 17.1	47.4 34.1 26.1	77.8 56.0 42.8	115 82.9 63.3	187 134 103	280 201 154	350 252 192
4"	4 6 8	0	13.1 7.5 7.2	26.0 16.9 14.3	42.1 27.4 23.1	63.1 41.0 34.7	97.2 63.2 53.5	159 103 87.4	238 154 131	385 251 212	575 374 316	720 467 396
6"	6 8 10	0	18.4 16.2 14.4	36.7 32.3 28.6	59.0 51.9 46.0	90.0 79.2 70.2	138 121.4 107.6	224 197.1 174.7	338 297.4 263.6	545 479.6 425.1	815 717.2 635.7	1020 897.6 795.6
8"	8 10 12	0	34.0 31.9 29.5	68.0 63.9 57.1	109.0 102.5 91.6	165.0 155.1 138.6	254.0 238.8 213.4	415. 390.1 348.6	620 582.8 520.8	1010 949.4 848.4	1500 1410 1260	1880 1767.2 1580

 $C_{_{V}}$ is defined as the flow of liquid in gallons per minute through a valve with a pressure drop of 1 psi across the valve.

F,	0	.92	.91	.91	.90	.86	.86	.72	.65	.61	.50
X,	0	.78	.74	.71	.67	.62	.56	.49	.38	.26	.15

F. = Liquid Pressure Recovery Factor

CAUTION: Ball valves can retain pressurized media in the body cavity when closed, Use care when disassembling. Always open valve to relieve pressure prior to disassembly. Due to the continuous development of our product range, we reserve the right to alter the information contained in this brochure as required.

Flowserve Corporation has established industry leadership in the design and manufacture of its products. When properly selected, this Flowserve product is designed to perform its intended function safely during its useful life. However, the purchaser or user of Flowserve products should be aware that Flowserve products might be used in numerous applications under a wide variety of industrial service conditions. Although Flowserve can (and often does) provide general guidelines, it cannot provide specific data and warnings for all possible applications. The purchaser/user must therefore assume the ultimate responsibility for the proper sizing and selection, installation, operation, and maintenance of Flowserve products. The purchaser/user should read and understand the Installation Operation Maintenance (IOM) instructions included with the product, and train its employees and contractors in the safe use of Flowserve products in connection with the specific application.

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FLOWSERVE FLOW CONTROL

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X, = Pressure Drop Ratio Factor (Gas)