

RSS, Richter's Bellows Sealed Globe Control Valve

Corrosion resistant heavy duty PFA lining

Excellent for flow control of corrosive, hazardous, pure and/or slightly solids-laden liquids, vapors and gases in the chemical, pharmaceutical and other industries.

- 1/4" (5-6 mm) lining thickness
- Heavy-duty bellows - TFM 1705
- Seat and plug - modified PTFE
- U-Plug for flow division - recommended when cavitation might occur
- V-Plug for low flow rates - down to 0.012 Cv
- Clean Air Act „TA-Luft“
- Operating range: -75 to 400 °F
- Size range from 1/2" - 6" - most available from stock
- Options for explosive, pure and highly permeating media available



Flow rates k_{v100} (m³/h), Cv (US gpm)

DN			Seat-Ø mm (inch)																					
DIN/ISO (mm)	ANSI (inch)	k _{V100} / Cv	145 (5.7)	145 (5.7)	120 (4.7)	96 (3.8)	80 (3.1)	65 (2.6)	50 (2)	40 (1.6)	30 (1.2)	25 (1)	20 (0.8)	15 (0.6)	8 (0.3)	DN 15+20 (1/2" + 3/4"): Seat ø 8 mm (0.31") DN 25 (1"): Seat ø 14 mm (0.55")								
15+20	1/2 + 3/4	k _{V100} Cv												4 4.7	2 2.33		0.80 0.93	0.50 0.58	0.20 0.23	0.10 0.12	0.05 0.06	0.02 0.023	0.01 0.012	
25	1	k _{V100} Cv										11 12.8	7 8.2	4 4.7	2 2.33	1.20 1.40	0.80 0.93	0.50 0.58	0.20 0.23	0.10 0.12	0.05 0.06	0.02 0.023	0.01 0.012	
40	1 1/2	k _{V100} Cv								28 32.6	15 17.5	11 12.8	7 8.2	4 4.7										
50+65	2	k _{V100} Cv							42 48.9	28 32.6	15 17.5	11 12.8	7 8.2											
80	3	k _{V100} Cv					100* 117*	65 75.7	42 48.9	28 32.6	15 17.5													
100	4	k _{V100} Cv				155* 180*	100* 117*	65 75.7	42 48.9															
150	6	k _{V100} Cv	360 420	300 350	240 280																			

* If a U-plug is used, the k_{v100} (Cv) values reduce from 155 m³/h (180 US gpm) to 135 m³/h (157 US gpm) and from 100 m³/h (117 US gpm) to 90 m³/h (105 US gpm)

Remarks: 1. V-control plugs are used for the k_{v100} values 0.01 to 1.2 (Cv 0.012 to 1.4).

2. The next lower k_{v100} (Cv) value can also be attained by using a different plug without changing the seat diameter. This may be important as it is only necessary to replace the plug if the k_{v100} (Cv) value is later changed.

3. Conversion k_{v100} to Cv (US gpm) = $k_{v100} \times 1.165$.