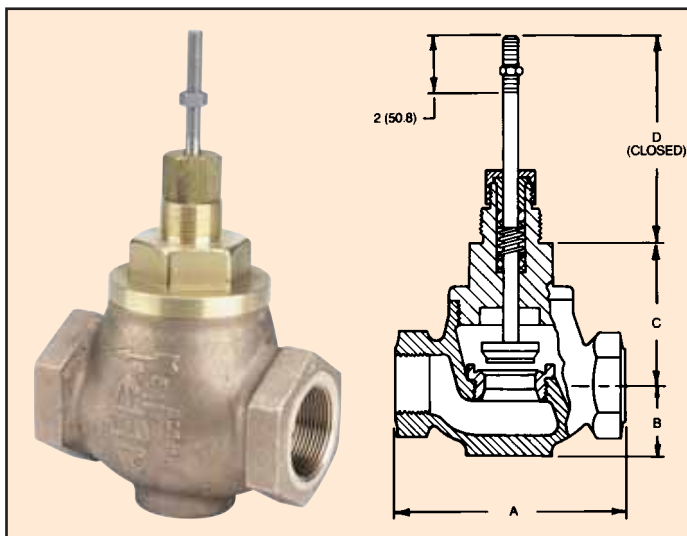




Series
2000VA

Hi-Flow™ Control Valves Body Only

Push-To-Close, Linear Characteristics, Precise Control, High Flow Capacity



DIMENSION DATA

PIPE SIZE	STROKE IN. (MM)	AREA* IN. ² (CM ²)	A (BRONZE) IN. (MM)	A (316SS) IN. (MM)	B IN. (MM)	C IN. (MM)	D IN. (MM)
½"	⅞ (7.9)	0.341 (2.20)	3⅞ (95.3)	4⅞ (106.4)	1⅞ (34.9)	2⅞ (65.1)	4⅞ (109.5)
¾"	⅞ (11.1)	0.556 (3.59)	3⅞ (98.4)	4⅞ (108.0)	1⅞ (34.9)	2⅞ (65.1)	4⅞ (109.5)
1"	⅞ (12.7)	0.886 (5.72)	4⅞ (120.7)	5⅞ (133.4)	1⅞ (41.3)	3 (76.2)	3⅞ (100.0)
1¼"	⅞ (14.3)	1.413 (9.12)	5 (127.0)	5⅞ (146.0)	1⅞ (46.0)	3⅞ (79.4)	3⅞ (92.1)
1½"	⅞ (15.9)	1.920 (12.39)	5⅞ (139.7)	6⅞ (155.6)	2 (50.8)	3⅞ (88.9)	3⅞ (100.0)
2"	⅞ (19.1)	3.142 (20.27)	6⅞ (165.1)	6⅞ (174.6)	2 (60.3)	3⅞ (95.2)	3⅞ (79.4)

*Unbalanced area of plug (A_p)

FLOW COEFFICIENTS, Cv

Cv vs. PERCENT OF TOTAL TRAVEL

SIZE	10	20	30	40	50	60	70	80	90	100
½"	.78	1.50	2.30	2.90	3.60	4.40	5.10	5.80	6.20	6.45
¾"	1.19	2.40	3.60	4.80	5.90	7.10	8.40	9.70	10.50	10.75
1"	1.81	3.80	5.80	7.80	9.75	11.75	13.75	15.80	17.10	17.42
1¼"	2.57	5.40	8.20	11.00	13.80	16.60	19.50	22.30	24.75	25.30
1½"	3.25	6.80	10.20	13.80	17.25	20.80	24.25	27.75	31.00	32.10
2"	4.67	10.30	15.50	21.00	26.40	31.90	37.30	43.25	48.50	50.30

W.E. Anderson Hi-Flow™ Control Valves are versatile, single-seated, top-guided globe valves designed for precise control of pressure, temperature, level and flow process variables at an economical price. Standard models incorporate push-to-close action and linear flow characteristics generally accepted as industry standard; however, control valves with push-to-open action and/or equal percentage flow characteristics are also readily available to satisfy unique process control applications. High flow capacity coupled with superior rangeability (50:1) inherent in the Hi-Flow™ valve design enables the selection of standard models for a wide variety of process control applications without sacrificing control precision. Restricted trim and needle valves are also readily available for extreme low-flow applications with no reduction in pipe size required.

Heavy-duty Hi-Flow™ Control Valves are ruggedly constructed of the highest quality materials, precision machined and performance tested to assure years of trouble-free service. Available with Bronze, Iron, or 316SS body, trim is 316SS with all welded plug construction to provide superior durability and corrosion resistance. Standard packing consists of spring loaded Teflon® V-rings (3) and wiper to minimize friction without leakage at high operating pressures. Inverted V-ring construction for vacuum service; double opposing V-ring construction for alternating positive pressure/vacuum service; and graphite packing with or without built in lubricator are also readily available.

Suggested Specification

Control valve* shall be single-seated, top-guided globe valve with push-to-close action and linear flow characteristics. Valve shall have high flow capacity with 50:1 rangeability for precise control. Valve body shall be (Bronze, Iron, 316SS) and trim shall be 316SS with all welded plug construction to provide superior durability and corrosion resistance. Control valve* shall be W.E. Anderson Hi-Flow™ Control Valve Part No. ____.

SPECIFICATIONS

Service: Compatible liquids, gases, and steam.

Line Size: 1/2" to 2".

Body Style: 2-way, push-to-close globe.

End Connections: 1/2" to 2" female NPT.

Pressure Limit: Iron and Bronze Body: 250 psi (17.2 bar), 316 SS Body: 300 psi (20.7 bar).

Wetted Materials:

Body Material: Iron, bronze, or 316 SS.

Trim: 316 SS.

Packing: PTFE.

Temperature Limits: 20 to 400°F (-7 to 204.4°C).

Flow Leakage: Meets ANSI/FCI 70-2 Class IV (0.01% of Cv in the closed position).

Stem Connection: 5/16" - 24 NF2.

Options: Push-To-Open action; Equal percentage characteristics; Restricted trim or needle plugs; Graphite packing with lubricator; custom connections; etc.

Consult factory with operating parameters for non-standard control valve requirements.

Model No./Part No. (valve body assemblies)

PIPE SIZE	MATERIAL	MODEL NO. *
½"	BRONZE	2000VA32
	IRON	2000VA12
	316SS	2000VA42
¾"	BRONZE	2001VA32
	IRON	2001VA12
	316SS	2001VA42
1"	BRONZE	2002VA32
	IRON	2002VA12
	316SS	2002VA42
1¼"	BRONZE	2003VA32
	IRON	2003VA12
	316SS	2003VA42
1½"	BRONZE	2004VA32
	IRON	2004VA12
	316SS	2004VA42
2"	BRONZE	2005VA32
	IRON	2005VA12
	316SS	2005VA42

*Specify Model No. with appropriate suffix(es) (Actuator Term. No. etc.) for complete valve automation package (refer to pages 326 - 327 for sizing and ordering information).