High Close-off, Two-Way Flanged Globe Valve 2-1/2 to 6-Inch, Flanged Iron Body, ANSI Classes 125 & 250

Description

The Dodge Engineering high close-off, twoway flanged valve iron bodies, are designed to work with either pneumatic or electronic actuators with 3/4-inch (20 mm) or 1-1/2inch (40 mm) stroke. They are available in both ANSI Class 125 and 250 for Normally Open or Normally Closed action.

Typical applications include control of hot or chilled water; or 50% water-glycol solution.

Features

- Universal bonnet, for direct-coupled actuators
- Equal percentage flow characteristic
- Stainless steel trim
- ANSI Class IV leakage ($\leq 0.01\%$ of Cv)
- EPDM O-ring packing

Typical Specifications

Automatic high close-off control valves shall have flanged connections, 2-1/2-inch through 6-inch (65 mm through 150 mm) sizes, and shall be ANSI 125 or ANSI 250 rated to withstand the pressures and temperatures encountered.

Valves shall have metal-to-metal seats, stainless steel trim and stems, and EPDM Oring packing.

Valve shall be ANSI Leakage Class IV (0.01% of Cv) at a close-off differential up to 200 psi. Valves shall have a 100:1 rangeability or better.



Technical Data

Valve Size	2-1/2 in. to 6-in. (65 mm to 150 mm)					
Body	Cast iron ASTM A126 Class B					
Trim	Stainless Steel					
Stem	Stainless steel ASTM A582 Type 303					
Stem Travel	See Close-off Rating Chart.					
Seat	Metal-to-metal					
Packing	EPDM O-ring					
Close-off Ratings	According to ANSI/FCI 70-2 See Close-off Rating Chart.					
Controlled Medium	Water, 50% water-glycol solution					
Medium Temperatur	e 20°F to 250°F (-7°C to 120°C)					
Maximum Recommended Differential Pressure for Modulating Service 50 psi (345 kPa)						



High Pressure Close-off, Two-Way Flanged Globe Valve Close-Off Rating Chart

Normally Open ANSI Class 125 and 250

					Electric Spring Return		Pneumatic Spring Return w/ Positioner	
					0-10 V	0-10V	8"	12"
Normally Open:					ESL3B2 ESL2B2		PS8B	PS12B
	Ansi							
2 Way	Class	Model#	CV	Stroke	Close-Off		Close-Off (3 to 8 PSI)	
2 1/2"	125	GF2A-63-HCO-NO-SS(125)	63	3/4 (20)	200	-	200	-
3"	125	GF2A-100-HCO-NO-SS(125)	100	3/4 (20)	200	-	200	-
4"	125	GF2A-160-HCO-NO-SS(125)	160	1-1/2 (40)	-	200	-	200
5"	125	GF2A-250-HCO-NO-SS(125)	250	1-1/2 (40)	-	200	-	200
6"	125	GF2A-400-HCO-NO-SS(125)	400	1-1/2 (40)	-	200	-	200
2 1/2"	250	GF2A-63-HCO-NO-SS(250)	63	3/4 (20)	200	-	200	-
3"	250	GF2A-100-HCO-NO-SS(250)	100	3/4 (20)	200	-	200	-
4"	250	GF2A-160-HCO-NO-SS(250)	160	1-1/2 (40)	-	200	-	200
5"	250	GF2A-250-HCO-NO-SS(250)	250	1-1/2 (40)	-	200	-	200
6"	250	GF2A-400-HCO-NO-SS(250)	400	1-1/2 (40)	-	200	-	200

Normally Closed ANSI Class 125 and 250

					Electric		Pneumatic	
					Spring Return		Spring Return w/ Positioner	
			Ì		0-10 V	0-10V	8"	12"
Normally Closed:					ESL3B2	ESL2B2	PS8B	PS12B
	Ansi							
2 Way	Class	Model #	CV	Stroke	Close-Off		Close-Off (10 to 15 PSI)	
2 1/2"	125	GF2A-63-HCO-NC-SS(125)	63	3/4 (20)	200	-	200	-
3"	125	GF2A-100-HCO-NC-SS(125)	100	3/4 (20)	200	-	200	-
4"	125	GF2A-160-HCO-NC-SS(125)	160	1-1/2 (40)	-	200	-	200
5"	125	GF2A-250-HCO-NC-SS(125)	250	1-1/2 (40)	-	200	-	200
6"	125	GF2A-400-HCO-NC-SS(125)	400	1-1/2 (40)	-	200	-	200
2 1/2"	250	GF2A-63-HCO-NC-SS(250)	63	3/4 (20)	200	-	200	-
3"	250	GF2A-100-HCO-NC-SS(250)	100	3/4 (20)	200	-	200	-
4"	250	GF2A-160-HCO-NC-SS(250)	160	1-1/2 (40)	-	200	-	200
5"	250	GF2A-250-HCO-NC-SS(250)	250	1-1/2 (40)	-	200	-	200
6"	250	GF2A-400-HCO-NC-SS(250)	400	1-1/2 (40)	-	200	-	200



Dimensions



Table 5. Flanged 2-Way Valve Dimensions.

	Valve Size inch (mm)	ANSI Class 125				ANSI Class 250				
Valve Action		Inches (mm)			Weight		Weight			
		Α	В	С	lbs. (kg)	А	в	С	lbs. (kg)	
Normally Open	2-1/2 (65)	10-7/8 (276)	11 (281)	4-7/8 (123)	62 (28)	11-1/2 (292)	11 (281)	4-7/8 (123)	78 (35)	
	3 (80)	11-3/4 (299)	12-1/4 (312)	5-5/16 (135)	79 (35)	12-1/2 (318)	12-1/4 (312)	5-5/16 (135)	102 (46)	
	4 (100)	13-7/8 (352)	13-9/16 (345)	6-5/16 (160)	129 (58.12)	14-1/2 (368)	13-5/8 (344.7)	6-5/16 (160)	168.68 (75)	
	5 (125)	15-3/4 (400)	15-3/16 (385)	7 (177)	162 (73)	16-5/8 (422)	15-3/16 (385)	7 (177)	215 (97)	
	6 (150)	17-3/4 (451)	16-3/4 (426)	7-7/8 (200)	222 (101)	18-5/8 (473)	16-3/4 (426)	7-7/8 (200)	312 (142)	
Normally Closed	2-1/2 (65)	10-7/8 (276)	10-5/8 (269)	4-7/8 (125)	58 (26)	11-1/2 (292)	11 (279)	5-3/8 (135)	74 (34)	
	3 (80)	11-3/4 (299)	11-15/16 (303)	5-5/8 (142)	72 (35)	12-1/2 (318)	12-7/16 (315)	6 (154)	100 (45)	
	4 (100)	13-7/8 (352)	13-15/16 (354)	6-5/8 (168)	128 (58)	14-1/2 (368)	14-3/8 (364)	7 (178)	16 (72)	
	5 (125)	15-3/4 (400)	15-1/4 (388)	7-1/2 (185)	159 (72)	16-5/8 (422)	15-3/4 (399)	7-3/4 (196)	214 (97)	
	6 (150)	17-3/4 (451)	17-1/16 (433)	8-3/16 (207)	219 (100)	18-5/8 (473)	17-1/2 (444)	8-5/8 (218)	309 (141)	

Table 5. Flanged 2-Way Valve Dimensions.

Information in this publication is based on current specifications. The company reserves the right to make changes in specifications and models as design improvements are introduced.