

Three-way Flanged Iron Globe Valves

2-1/2 to 6-inch



Flowrite Three-way Flanged Iron Globe Valve.

Description

Designed to work with either a pneumatic or electronic Flowrite actuator, the Flowrite Three-way Globe Valves are available in both ANSI Class 125 and 250.

Features

- Valve flange face-to-face dimensions meet ANSI/ISA S75.03 standards
- Direct-coupled, universal bonnet
- Equal percentage (NC port) and linear (NO port) flow characteristics
- Bronze or stainless steel trim
- Greater than 100:1 rangeability
- 2-1/2 to 3-inch are available with a 3/4-inch stroke
- 4-, 5-, and 6-inch are available with a 1-1/2-inch stroke
- ANSI Leakage Class IV (0.01% of Cv)
- Cartridge-type packing for easy service

Option

- Service flange for easy removal of stem and plug through bottom port

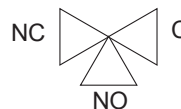
Applications

The Flowrite Three-way Globe Valves are recommended for water and glycol solutions up to 50 percent. Additional specifications include the following:

- Water inlet pressures up to ANSI 125 and ANSI 250 cast-iron body rating
- Water modulating differential pressure up to 25 psi (172 kPa) for bronze trim and 50 psi (345 kPa) for stainless steel trim

To use this valve as a diverting valve, refer to Technical Instructions 155-160P25 for limitations or contact your local representative for more information.

Flow Characteristics



Equal percentage for NC/Linear for NO

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Three-way Flanged Iron Globe Valve Specifications

Valve Size	2-1/2 to 6"
Body Style	Flanged
Action	Three-way Water Mix
Stem Travel	
2-1/2 and 3"	3/4" (20 mm)
4, 5 and 6"	1-1/2" (40 mm)
Valve Body Rating	ANSI Class 125 or 250
Materials	
Body	Cast Iron, ASTM A 126 Class B
Trim	Bronze or Stainless Steel
Stem	Stainless Steel, ASTM A582 Type 303
Packing	
Liquid Service to 250°F (120°C)	EPDM O-rings

Operating	
Controlled Medium	Water, Glycol Solutions up to 50%
Medium Temperature Range	20 to 250°F (-7 to 120°C)
Max. Recommended Differential Pressure for Modulating Service	
Bronze Trim	25 psig (173 kPa)
Stainless Steel Trim	50 psig (345 kPa)
Flow Characteristics	
Upper Port	Equal Percentage
Lower Port	Linear
Rangeability	>100:1

Mixing Flanged Iron Globe Valve Body Product Ordering

Bronze Trim

Valve Size in. (mm)	Flow Rate Cv (Kvs)	Stroke	Valve Body		Service Flange	
			ANSI Class 125	ANSI Class 250	ANSI Class 125	ANSI Class 250
Standard-Temperature Packing — 20 to 250°F (-7 to 120°C)						
2-1/2 (65)	63 (54)	3/4	599-06160	599-06170	599-05011	599-05016
3 (80)	100 (86)	3/4	599-06161	599-06171	599-05012	599-05017
4 (100)	160 (140)	1-1/2	599-06162	599-06172	599-05013	599-05018
5 (125)	250 (215)	1-1/2	599-06163	599-06173	599-05014	599-05019
6 (150)	400 (340)	1-1/2	599-06164	599-06174	599-05015	599-05020

Ordering Note:

Service Flange is sold separately.

Mixing Flanged Iron Globe Valve Body Product Ordering

Stainless Steel Trim

Valve Size in. (mm)	Flow Rate Cv (Kvs)	Stroke	Valve Body		Service Flange		
			ANSI Class 125	ANSI Class 250	ANSI Class 125	ANSI Class 250	
Standard-Temperature Packing — 20 to 250°F (-7 to 120°C)							
2-1/2 (65)	63 (54)	3/4	599-06165	599-06175	599-05011	599-05016	
3 (80)	100 (86)	3/4	599-06166	599-06176	599-05012	599-05017	
4 (100)	160 (140)	1-1/2	599-06167	599-06177	599-05013	599-05018	
5 (125)	250 (215)	1-1/2	599-06168	599-06178	599-05014	599-05019	
6 (150)	400 (340)	1-1/2	599-06169	599-06179	599-05015	599-05020	

Ordering Note:

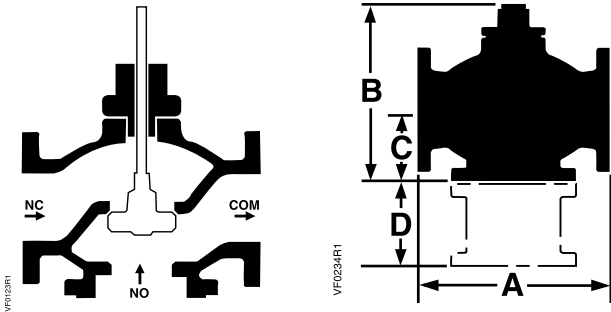
Service Flange is sold separately.

Flowrite Valve Actuator Product Ordering

Description			Part No.	Actuator Prefix Code
 8"	Pneumatic	20 mm Stroke/Normal Temp.	599-01050	277
		20 mm Stroke/Hi-Temp.	599-01051	278
 12"	Pneumatic	20 mm Stroke	599-01010	279
		40 mm Stroke	599-01000	281
 8"	Pneumatic w/ Positioner	20 mm Stroke/Normal Temp.	599-01050 + 599-00426	283
		20 mm Stroke/Hi-Temp.	599-01051 + 599-00426	284
 12"	Pneumatic w/ Positioner	20 mm Stroke	599-01010 + 599-00423	285
		40 mm Stroke	599-01000 + 599-00423	287
	Electro-Hydraulic	20 mm Stroke		
		24 V, Floating 3P, Spring Return	SKD82.51U	276
		24 V, Floating 3P, Spring Return	SKB82.51U	289
		24 V, Floating 3P, Non-Spring Return	SKD82.50U	275
		24 V, Floating 3P, Non-Spring Return	SKB82.50U	290
		24 V, 0-10 V, 4-20 mA, Non-Spring Return	SKD60U	267
		24 V, 0-10 V, 4-20 mA, Spring Return	SKD62U	274
		24 V, 0-10 V, 4-20 mA, Spring Return	SKB62U	291
		40 mm Stroke		
		24 V, Floating 3P, Spring Return	SKC82.61U	292
		24 V, Floating 3P, Non-Spring Return	SKC82.60U	293
		24 V, 0-10 V, 4-20 mA, Spring Return	SKC62U	294

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Valve Size	Dimensions					Weight	
	A		B	C	D		
	ANSI Class 125	ANSI Class 250			Service Flange	ANSI Class 125	ANSI Class 250
2-1/2" (65 mm)	10-7/8" (276.4 mm)	11-1/2" (292 mm)	9-3/8" (239.2 mm)	3-3/4" (95 mm)	6.5" (165 mm)	50 lb. (23 kg)	63 lb. (29 kg)
3" (80 mm)	11-3/4" (298.5 mm)	12-1/2" (318 mm)	10-3/4" (272 mm)	4-3/8" (111 mm)	7" (178 mm)	65 lb. (30 kg)	82 lb. (37 kg)
4" (100 mm)	13-7/8" (352.4 mm)	14-1/2" (368 mm)	12-1/2" (317.8 mm)	5-1/8" (131.6 mm)	7.5" (191 mm)	110 lb. (50 kg)	134 lb. (61 kg)
5" (125 mm)	15-3/4" (400 mm)	16-5/8" (422 mm)	13-3/4" (349.2 mm)	5-3/4" (146.2 mm)	8.5" (216 mm)	136 lb. (62 kg)	176 lb. (80 kg)
6" (150 mm)	17-3/4" (451 mm)	18-5/8" (473 mm)	15-1/2" (393 mm)	6-5/8" (167 mm)	9.5" (241 mm)	141 lb. (64 kg)	258 lb. (117 kg)