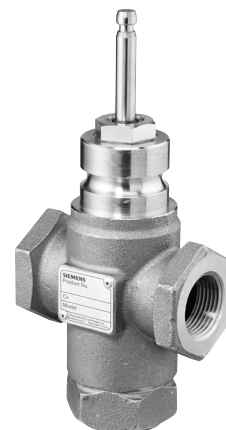


Three-way Globe Valves

1/2 to 2-inch Bronze Body



Flowrite Three-way Globe Valve.

Description

Designed to work with either pneumatic or electronic actuators with a 3/4-inch (20 mm) stroke, the Flowrite Three-way Globe Valves are available in ANSI Class 250.

Features

- Direct-coupled, universal bonnet
- Equal percentage (NC port) and linear flow (NO port) characteristics
- Brass or stainless steel trim
- Accepts any 3/4-inch stroke Flowrite pneumatic or electronic actuator
- Greater than 100:1 rangeability
- ANSI Leakage Class IV (0.01% of Cv)
- Cartridge-type packing for easy service
- Orderable as a valve only or as a complete valve/actuator assembly

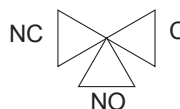
Applications

Flowrite Three-way Globe Valves are recommended for mixing applications. The upper port is closed in the normal stem up, failed position. The lower port is open in the stem up position.

This valve can also be used for throttling or bypass coil control application. However, a pump is recommended on the coil circuit to improve the heat transfer characteristic of the coil and for freeze protection.

To use this valve as a diverting valve, refer to Technical Instructions 155-185P25 for limitations or contact your local representative for more information.

Flow Characteristics



Equal percentage for NC/Linear for NO

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Valves

Three-way Globe Valve Specifications

Valve Size 1/2 to 2" (15 to 50 mm)
Body StyleGlobe Style Control Valve
Seat StyleMetal to Metal
Action Three-way Mixing
Stem Travel (Stroke) 3/4" (20 mm)
Valve Body Rating ANSI Class 250
Material
 Body UNS CA 844 Bronze
 Trim Brass or Stainless Steel
 Stem Stainless Steel ASTM A582 Type 303
 Packing 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
 Brass Trim 25 psi (173 kPa)
 Stainless Steel Trim 50 psi (345 kPa)
Max. Inlet Pressure Refer to the Flowrite Reference Section
Rangeability >100:1
Close-off Ratings According to ANSI/FCI 70-2
Leakage Rate Class IV (0.01% of Cv)

Three-way Mixing Globe Valve Body Product Ordering Brass and Stainless Steel Trim







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Valves

Connection	Valve Size in. (mm)	Flow Rate Cv (Kvs)	Stroke (in.)	Brass Trim Part No.	Stainless Steel Trim Part No.
Standard-Temperature Packing — 20 to 250°F (-7 to 120°C)					
Female x Female	1/2 (15)	1 (0.9)	3/4	599-03198	599-03144
	1/2 (15)	1.6 (1.4)	3/4	599-03199	599-03145
	1/2 (15)	2.5 (2.2)	3/4	599-03200	599-03146
	1/2 (15)	4 (3.4)	3/4	599-03201	599-03147
	3/4 (20)	6.3 (5.4)	3/4	599-03202	599-03148
	1 (25)	10 (8.6)	3/4	599-03203	599-03149
	1-1/4 (32)	16 (14)	3/4	599-03204	599-03150
	1-1/2 (40)	25 (22)	3/4	599-03205	599-03151
2 (50)	40 (34)	3/4	599-03206	599-03152	

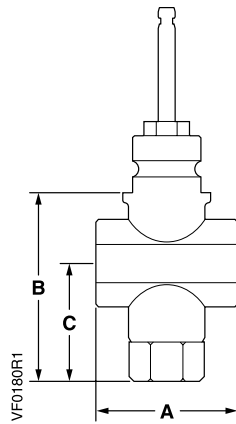
Flowrite Globe Valve Actuators Product Ordering

		Description	Part No.	Actuator Prefix Code
 4"	Pneumatic	3-8 psi (21-55 kPa)	599-01081	268
		5-10 psi (34-69 kPa)	599-01082	269
		10-15 psi (69 -103 kPa)	599-01083	270
 8"	Pneumatic	Normal Temp.	599-01050	277
		High-Temp.	599-01051	278
 8"	Pneumatic w/ Positioner	Normal Temp. w/Positioner	599-01050 + 599-00426	283
		High-Temp. w/Positioner	599-01051 + 599-00426	284
	Electro-Mechanical	Rack & Pinion 2P, Spring Return	599-03611	299
		Rack & Pinion, 0-10 Vdc, Spring Return	599-03609	298
		24 V, Floating 3P, Non-Spring Return	SAX81.03U	373
		24 V, 0-10 V, 4-20 mA, Non-Spring Return	SAX61.03U	371
	Electro-Hydraulic	24 V, Floating 3P, Spring Return	SKD82.51U	276
		24 V, Floating 3P, Non-Spring Return	SKD82.50U	275
		24 V, 0-10 V, 4-20 mA, Spring Return	SKD62U	274
		24 V, 0-10 V, 4-20 mA, Non-Spring Return	SKD60U	267
		24 V, 0-10 V, 4-20 mA, Spring Return	SKB62U	291

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Valves

Three-way Globe Valve Body Dimensions and Weights



Female NPT x Female NPT x Female NPT
(FxFxF)

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Valves

Valve Size	Dimensions			Weight
	A	B	C	
1/2" (15 mm)	2-7/8" (72 mm)	4-5/16" (110 mm)	2-11/16" (68 mm)	3.0 lb. (1.4 kg)
3/4" (20 mm)	3-3/8" (85 mm)	4-5/16" (110 mm)	2-3/4" (69 mm)	4.0 lb. (1.8 kg)
1" (25 mm)	3-15/16" (100 mm)	4-1/2" (114 mm)	2-7/8" (72 mm)	5.0 lb. (2.3 kg)
1-1/4" (32 mm)	4-15/16" (125 mm)	4-5/8" (116 mm)	2-15/16" (74 mm)	7.0 lb. (3.2 kg)
1-1/2" (40 mm)	5-1/8" (130 mm)	4-5/8" (117 mm)	3" (76 mm)	9.0 lb. (4.1 kg)
2" (50 mm)	6-1/4" (158 mm)	5-1/8" (130 mm)	3-3/16" (81 mm)	13.0 lb. (5.9 kg)