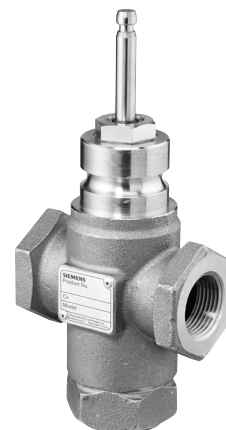


## Three-way Globe Valves

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

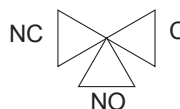
### Applications

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 Style** .....Globe Style Control Valve  
**Seat Style** .....Metal 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.
<b>Standard-Temperature Packing — 20 to 250°F (-7 to 120°C)</b>					
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

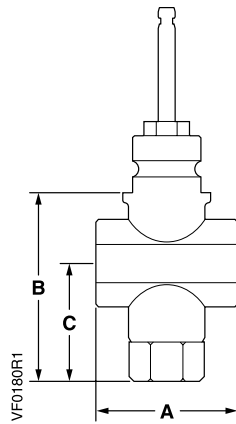
## Flowrite Globe Valve Actuators Product Ordering

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

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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)