

## Flowrite Globe Valves



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Valves

Compatible with piping line sizes ranging from 1/2 to 6-inch (Cv range 1.0 to 400), the Flowrite Globe Valves offer electronic and pneumatic valve actuators. Flowrite valves bodies and actuators feature a unique, direct-coupled design that requires no additional parts to connect the valve and the actuator for time and labor savings.

### Over 50 Years of Legendary Performance

Since 1934, Flowrite has been recognized as the best globe valve in the HVAC control market. The Flowrite Globe Valve is an excellent choice for small to large air handling units and for central plant applications.

### Simple to Specify and Order

The direct-coupled connection provides flexibility and ease of installation. Specify the valve and actuator configuration to meet your specific requirements. In addition, you can select how you would like the components shipped—either as separate components or factory-assembled and tagged at no additional cost.

### Save Time

Installation is simple. There is no linkage to assemble or adjust—simply snap on the actuator and twist with a hex wrench.

### Flowrite Features

- Unique hole-plug design improves controllability and reduces noise
- Highest close off pressures in the industry—up to 250 psi
- Low leakage 0.01% (ANSI Class IV)
- 100:1 Rangeability

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## Two-way Globe Valves

*1/2 to 2-inch Bronze Body  
Normally Open or Normally Closed*



Flowrite Two-way  
Globe Valve.

### Description

Designed to work with either a pneumatic or electronic actuator with a 3/4-inch (20 mm) stroke, the Flowrite Two-way Globe Valves are available in ANSI Class 250 for Normally Closed or Normally Open action.

### Features

- Direct-coupled bonnet
- Equal percentage or linear flow characteristics
- Brass or stainless steel trim
- Factory orderable as:
  - Valve only
  - Valve and Actuator
- 100:1 Rangeability
- Accepts any 3/4-inch stroke Flowrite pneumatic or electronic actuator
- ANSI Leakage Class IV (0.01% of Cv)
- Cartridge-type packing for easy service
- Multiple end connections available

### Applications

The Flowrite Two-way Globe Valves are recommended for water, low and high pressure steam, and glycol solutions up to 50 percent.

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Valves

# Two-way Globe Valve Specifications

**Valve Size** ..... 1/2 to 2" (15 to 50 mm)  
**Body Style** ..... Globe-style control valve with four connection options  
**Seat Style** ..... Single seat, metal-to-metal  
**Action** ..... Normally Closed (NC), Normally Open (NO)  
**Stem Travel (Stroke)** ..... 3/4" (20 mm)  
**Valve Body** ..... ANSI Class 250  
**Materials**  
 Body ..... UNS CA 844 Bronze  
 Trim ..... Brass or Stainless Steel  
 Stem ..... Stainless Steel ASTM A582 Type 303  
**Packing**  
 Normal Duty ..... EPDM O-rings  
 Steam ..... Teflon V-rings and EPDM O-rings  
**Operating**  
 Controlled Medium ..... Saturated steam, water, glycol solutions up to 50%  
 Medium Temperature Range  
 Normal Duty Packing ..... 20 to 250°F (-7 to +120°C)  
 Steam Packing ..... 337°F (170°C) max.

## Max. Recommended Differential Pressure for Modulating Service

**Brass Trim**  
 Liquid ..... 25 psi (173 kPa)  
 Steam ..... 15 psi (103 kPa)  
**Stainless Steel Trim**  
 Liquid ..... 50 psi (345 kPa)  
 Steam ..... 50 psi (345 kPa)

## Max. Inlet Pressure

Water ..... Refer to Flowrite Reference Section.  
 Steam ..... 100 psi (690 kPa)

**Rangeability** ..... >100:1  
**Close-off Ratings** ..... According to ANSI/FCI 70-2  
**Leakage Rate** ..... Class IV (0.01% of Cv)  
**Mounting Location** ..... NEMA 1 (interior only)

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## Two-way Globe Valve Body Product Ordering NO/NC, Equal Percentage, Brass Trim



Valves

Connection	Flow Rate Cv (Kvs)	Valve Size in. (mm)	Stroke (in.)	Normally Open Part No.	Normally Closed Part No.
<b>Standard Temperature Packing — 20 to 250°F (-7 to 120°C)</b>					
Female x Female	1 (0.9)	1/2 (15)	3/4	599-03162	599-03180
	1.6 (1.4)	1/2 (15)	3/4	599-03163	599-03181
	2.5 (2.2)	1/2 (15)	3/4	599-03164	599-03182
	4 (3.4)	1/2 (15)	3/4	599-03165	599-03183
	6.3 (5.4)	3/4 (20)	3/4	599-03166	599-03184
	10 (8.6)	1 (25)	3/4	599-03167	599-03185
	16 (14)	1-1/4 (32)	3/4	599-03168	599-03186
	25 (22)	1-1/2 (40)	3/4	599-03169	599-03187
Female x Union Female	40 (34)	2 (50)	3/4	599-03170	599-03188
	1 (0.9)	1/2 (15)	3/4	599-03171	599-03189
	1.6 (1.4)	1/2 (15)	3/4	599-03172	599-03190
	2.5 (2.2)	1/2 (15)	3/4	599-03173	599-03191
	4 (3.4)	1/2 (15)	3/4	599-03174	599-03192
	6.3 (5.4)	3/4 (20)	3/4	599-03175	599-03193
Female x Union Male	10 (8.6)	1 (25)	3/4	599-03176	599-03194
	1 (0.9)	1/2 (15)	3/4	599-03270	599-03279
	1.6 (1.4)	1/2 (15)	3/4	599-03271	599-03280
	2.5 (2.2)	1/2 (15)	3/4	599-03272	599-03281
	4 (3.4)	1/2 (15)	3/4	599-03273	599-03282
	6.3 (5.4)	3/4 (20)	3/4	599-03274	599-03283
	10 (8.6)	1 (25)	3/4	599-03275	599-03284
Union Female x Union Female	16 (14)	1-1/4 (32)	3/4	599-03276	—
	16 (14)	1-1/4 (32)	3/4	599-03177	599-03195
	25 (22)	1-1/2 (40)	3/4	599-03178	599-03196
	40 (34)	2 (50)	3/4	599-03179	599-03197

## Two-way Globe Valve Body Product Ordering

### NO/NC, Equal Percentage, Stainless Steel Trim



Connection	Flow Rate Cv (Kvs)	Valve Size in. (mm)	Stroke (in.)	Normally Open Part No.	Normally Closed Part No.
<b>Standard Temperature Packing — 20 to 250°F (-7 to 120°C)</b>					
Female x Female	1 (0.9)	1/2 (15)	3/4	599-03108	599-03126
	1.6 (1.4)	1/2 (15)	3/4	599-03109	599-03127
	2.5 (2.2)	1/2 (15)	3/4	599-03110	599-03128
	4 (3.4)	1/2 (15)	3/4	599-03111	599-03129
	6.3 (5.4)	3/4 (20)	3/4	599-03112	599-03130
	10 (8.6)	1 (25)	3/4	599-03113	599-03131
	16 (14)	1-1/4 (32)	3/4	599-03114	599-03132
	25 (22)	1-1/2 (40)	3/4	599-03115	599-03133
Female x Union Female	40 (34)	2 (50)	3/4	599-03116	599-03134
	1 (0.9)	1/2 (15)	3/4	599-03117	599-03135
	1.6 (1.4)	1/2 (15)	3/4	599-03118	599-03136
	2.5 (2.2)	1/2 (15)	3/4	599-03119	599-03137
	4 (3.4)	1/2 (15)	3/4	599-03120	599-03138
	6.3 (5.4)	3/4 (20)	3/4	599-03121	599-03139
Female x Union Male	10 (8.6)	1 (25)	3/4	599-03122	599-03140
	1 (0.9)	1/2 (15)	3/4	599-03252	599-03261
	1.6 (1.4)	1/2 (15)	3/4	599-03253	599-03262
	2.5 (2.2)	1/2 (15)	3/4	599-03254	599-03263
	4 (3.4)	1/2 (15)	3/4	599-03255	599-03264
	6.3 (5.4)	3/4 (20)	3/4	599-03256	599-03265
Union Female x Union Female	10 (8.6)	1 (25)	3/4	599-03257	599-03266
	16 (14)	1-1/4 (32)	3/4	599-03123	599-03141
	25 (22)	1-1/2 (40)	3/4	599-03124	599-03142
	40 (34)	2 (50)	3/4	599-03125	599-03143

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## Two-way Globe Valve Body Product Ordering

### NO/NC, Linear, Stainless Steel Trim



Connection	Flow Rate Cv (Kvs)	Valve Size in. (mm)	Stroke (in.)	Normally Open Part No.	Normally Closed Part No.
<b>Standard Temperature Packing — 20 to 250°F (-7 to 120°C)</b>					
Female x Female	1 (0.9)	1/2 (15)	3/4	599-03000	599-03018
	1.6 (1.4)	1/2 (15)	3/4	599-03001	599-03019
	2.5 (2.2)	1/2 (15)	3/4	599-03002	599-03020
	4 (3.4)	1/2 (15)	3/4	599-03003	599-03021
	6.3 (5.4)	3/4 (20)	3/4	599-03004	599-03022
	10 (8.6)	1 (25)	3/4	599-03005	599-03023
	16 (14)	1-1/4 (32)	3/4	599-03006	599-03024
	25 (22)	1-1/2 (40)	3/4	599-03007	599-03025
Female x Union Female	40 (34)	2 (50)	3/4	599-03008	599-03026
	1 (0.9)	1/2 (15)	3/4	599-03009	599-03027
	1.6 (1.4)	1/2 (15)	3/4	599-03010	599-03028
	2.5 (2.2)	1/2 (15)	3/4	599-03011	599-03029
	4 (3.4)	1/2 (15)	3/4	599-03012	599-03030
	6.3 (5.4)	3/4 (20)	3/4	599-03013	599-03031
Female x Union Male	10 (8.6)	1 (25)	3/4	599-03014	599-03032
	1 (0.9)	1/2 (15)	3/4	599-03216	599-03225
	1.6 (1.4)	1/2 (15)	3/4	599-03217	599-03226
	2.5 (2.2)	1/2 (15)	3/4	599-03218	599-03227
	4 (3.4)	1/2 (15)	3/4	599-03219	599-03228
	6.3 (5.4)	3/4 (20)	3/4	599-03220	599-03229
Union Female x Union Female	10 (8.6)	1 (25)	3/4	599-03221	599-03230
	16 (14)	1-1/4 (32)	3/4	599-03015	599-03033
	25 (22)	1-1/2 (40)	3/4	599-03016	599-03034
	40 (34)	2 (50)	3/4	599-03017	599-03035

## Two-way Globe Valve Body Product Ordering

### NO/NC, Linear, Stainless Steel Trim









Connection	Flow Rate Cv	(Kvs)	Valve Size in.	(mm)	Stroke (in.)	Normally Open Part No.	Normally Closed Part No.
<b>High Temperature Packing — 337°F (-170°C)</b>							
Female x Female	1	(0.9)	1/2	(15)	3/4	599-03054	599-03072
	1.6	(1.4)	1/2	(15)	3/4	599-03055	599-03073
	2.5	(2.2)	1/2	(15)	3/4	599-03056	599-03074
	4	(3.4)	1/2	(15)	3/4	599-03057	599-03075
	6.3	(5.4)	3/4	(20)	3/4	599-03058	599-03076
	10	(8.6)	1	(25)	3/4	599-03059	599-03077
	16	(14)	1-1/4	(32)	3/4	599-03060	599-03078
	25	(22)	1-1/2	(40)	3/4	599-03061	599-03079
Female x Union Female	40	(34)	2	(50)	3/4	599-03062	599-03080
	1	(0.9)	1/2	(15)	3/4	599-03063	599-03081
	1.6	(1.4)	1/2	(15)	3/4	599-03064	599-03082
	2.5	(2.2)	1/2	(15)	3/4	599-03065	599-03083
	4	(3.4)	1/2	(15)	3/4	599-03066	599-03084
	6.3	(5.4)	3/4	(20)	3/4	599-03067	599-03085
	10	(8.6)	1	(25)	3/4	599-03068	599-03086
	Female x Union Male	1	(0.9)	1/2	(15)	3/4	599-03234
1.6		(1.4)	1/2	(15)	3/4	599-03235	599-03244
2.5		(2.2)	1/2	(15)	3/4	599-03236	599-03245
4		(3.4)	1/2	(15)	3/4	599-03237	599-03246
6.3		(5.4)	3/4	(20)	3/4	599-03238	599-03247
10		(8.6)	1	(25)	3/4	599-03239	599-03248
Union Female x Union Female	16	(14)	1-1/4	(32)	3/4	599-03069	599-03087
	25	(22)	1-1/2	(40)	3/4	599-03070	599-03088
	40	(34)	2	(50)	3/4	599-03071	599-03089

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## Flowrite Globe Valve Actuator 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-Hydraulic	24 V, Floating, NSR	SKD82.50U	275
		24 V, Floating, SR	SKD82.51U	276
		24 V, 0-10 V, 4-20 mA SR	SKD62U	274
		24 V, 0-10 V, 4-20 mA SR	SKB62U	291
	Electro-Mechanical	24 V, Floating, 120 sec. NSR	SQX82.00U	272
		24 V, Floating, 30 sec. NSR	SQX82.03U	273
		24 V, 0-10 V, 4-20 mA NSR	SQX62U	271
	Electro-Mechanical	24 V, 2P SR	599-03611	299
		24 V, 0-10 V SR	599-03609	298

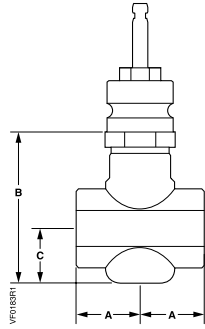


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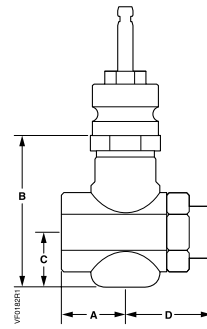
Valves



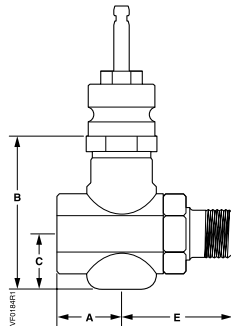
# Two-way Globe Valve Body Dimensions and Weights



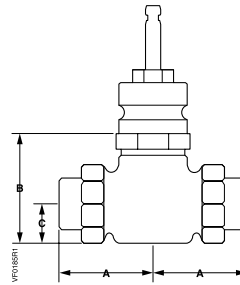
Female NPT by Female NPT (FxF)



Female NPT by Union Female (FxFUF)



Female NPT by Union Male (FxFUM)



Union Female by Union Female (UFxFUF)

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Valve Size	Dimensions						Weight			
	A	B	C	D	E	F	FxF	FxFUF	FxFUM	UFxFUF
<b>Normally Open</b>										
1/2" (15 mm)	1-1/16" (36 mm)	—	2-15/16" (74 mm)	1-1/4" (31 mm)	2-5/16" (59 mm)	2-7/8" (73 mm)	3 lb. (1.4 kg)	3 lb. (1.4 kg)	3 lb. (1.4 kg)	—
3/4" (20 mm)	1-11/16" (43 mm)	—	3-15/16" (99 mm)	1-7/16" (36 mm)	2-5/8" (67 mm)	3-3/16" (81 mm)	4 lb. (1.8 kg)	4 lb. (1.8 kg)	5 lb. (2.3 kg)	—
1" (25 mm)	2" (50 mm)	—	3-3/4" (96 mm)	1-1/4" (32 mm)	3" (76 mm)	3-1/2" (89 mm)	5 lb. (2.3 kg)	6 lb. (2.7 kg)	6 lb. (2.7 kg)	—
1-1/4" (32 mm)	2-1/2" (62 mm)	3-3/4" (95 mm)	4-1/8" <sup>1</sup> (104 mm)	1-5/8" <sup>1</sup> (40 mm)	—	4-3/8" (111 mm)	7 lb. (3.2 kg)	—	—	9 lb. (4.1 kg)
1-1/2" (40 mm)	2-9/16" (65 mm)	3-15/16" (99 mm)	4-1/4" <sup>1</sup> (109 mm) <sup>1</sup>	1-3/4" <sup>1</sup> (44 mm) <sup>1</sup>	—	—	9 lb. (4.1 kg)	—	—	11 lb. (5 kg)
2" (50 mm)	3-1/8" (79 mm)	4-9/16" (115 mm)	4-9/16" <sup>1</sup> (115 mm) <sup>1</sup>	2" <sup>1</sup> (51 mm) <sup>1</sup>	—	—	13 lb. (5.9 kg)	—	—	16 lb. (7.3 kg)
<b>Normally Closed</b>										
1/2" (15 mm)	1-7/16" (36 mm)	—	3-13/16" (97 mm)	2-13/16" (55 mm)	2-5/16" (59 mm)	2-7/8" (73 mm)	3 lb. (1.4 kg)	4 lb. (1.8 kg)	4 lb. (1.8 kg)	—
3/4" (20 mm)	1-11/16" (43 mm)	—	3-13/16" (97 mm)	2-3/16" (55 mm)	2-5/8" (67 mm)	3-3/16" (81 mm)	4 lb. (1.8 kg)	4 lb. (1.8 kg)	5 lb. (2.3 kg)	—
1" (25 mm)	2" (50 mm)	—	3-13/16" (97 mm)	2-3/16" (55 mm)	3" (76 mm)	3-1/2" (89 mm)	5 lb. (2.3 kg)	5 lb. (2.3 kg)	5 lb. (2.3 kg)	—
1-1/4" (32 mm)	2-1/2" (62 mm)	3-3/4" (95 mm)	3-13/16" (97 mm)	2-3/16" (55 mm)	—	—	7 lb. (3.2 kg)	—	—	9 lb. (4.1 kg)
1-1/2" (40 mm)	2-9/16" (65 mm)	3-15/16" (99 mm)	3-7/8" (99 mm)	2-1/4" (58 mm)	—	—	8 lb. (3.6 kg)	—	—	11 lb. (5 kg)
2" (50 mm)	3-1/8" (79 mm)	4-9/16" (115 mm)	4-3/16" (106 mm)	2-9/16" (65 mm)	—	—	16 lb. (7.3 kg)	—	—	16 lb. (7.3 kg)

**Table Note**

1. This dimension is determined by the union nut.



## 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) or linear flow (NO port) characteristics
- Brass or stainless steel trim
- Factory orderable as:
  - Valve only
  - Valve and Actuator
- Accepts any 3/4-inch Flowrite pneumatic or electronic actuator
- 100:1 Rangeability
- ANSI Leakage Class IV (0.01% of Cv)
- Cartridge-type packing for easy service
- FxF or UFxUF end connections available

### Applications

The Flowrite Three-way Globe Valves are recommended for mixing water supplies of two different temperatures. 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, contact your local representative for more information.

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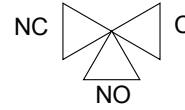
Valves

## Three-way Globe Valve Specifications

**Valve Size** ..... 1/2 to 2" (15 to 50 mm)  
**Body Style** .....Globe-style control valve with two connection options  
**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)  
**Mounting Location** ..... NEMA 1 (interior only)

### Flow Characteristics



Equal percentage for NC/Linear for NO

## Three-way Mixing Globe Valve Body Product Ordering Brass Trim



Connection	Flow Rate		Valve Size		Stroke (in.)	Part No.
	Cv	(Kvs)	in.	(mm)		
<b>Standard Temperature Packing — 20 to 250°F (-7 to 120°C)</b>						
Female x Female	1	(0.9)	1/2	(15)	3/4	599-03198
	1.6	(1.4)	1/2	(15)	3/4	599-03199
	2.5	(2.2)	1/2	(15)	3/4	599-03200
	4	(3.4)	1/2	(15)	3/4	599-03201
	6.3	(5.4)	3/4	(20)	3/4	599-03202
	10	(8.6)	1	(25)	3/4	599-03203
	16	(14)	1-1/4	(32)	3/4	599-03204
	25	(22)	1-1/2	(40)	3/4	599-03205
	40	(34)	2	(50)	3/4	599-03206
Union Female x Union Female	1	(0.9)	1/2	(15)	3/4	599-03207
	1.6	(1.4)	1/2	(15)	3/4	599-03208
	2.5	(2.2)	1/2	(15)	3/4	599-03209
	4	(3.4)	1/2	(15)	3/4	599-03210
	6.3	(5.4)	3/4	(20)	3/4	599-03211
	10	(8.6)	1	(25)	3/4	599-03212
	16	(14)	1-1/4	(32)	3/4	599-03213
	25	(22)	1-1/2	(40)	3/4	599-03214
	40	(34)	2	(50)	3/4	599-03215

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



Connection	Flow Rate		Valve Size		Stroke (in.)	Part No.
	Cv	(Kvs)	in.	(mm)		
<b>Standard Temperature Packing — 20 to 250°F (-7 to 120°C)</b>						
Female x Female	1	(0.9)	1/2	(15)	3/4	599-03144
	1.6	(1.4)	1/2	(15)	3/4	599-03145
	2.5	(2.2)	1/2	(15)	3/4	599-03146
	4	(3.4)	1/2	(15)	3/4	599-03147
	6.3	(5.4)	3/4	(20)	3/4	599-03148
	10	(8.6)	1	(25)	3/4	599-03149
	16	(14)	1-1/4	(32)	3/4	599-03150
	25	(22)	1-1/2	(40)	3/4	599-03151
	40	(34)	2	(50)	3/4	599-03152
Union Female x Union Female	1	(0.9)	1/2	(15)	3/4	599-03153
	1.6	(1.4)	1/2	(15)	3/4	599-03154
	2.5	(2.2)	1/2	(15)	3/4	599-03155
	4	(3.4)	1/2	(15)	3/4	599-03156
	6.3	(5.4)	3/4	(20)	3/4	599-03157
	10	(8.6)	1	(25)	3/4	599-03158
	16	(14)	1-1/4	(32)	3/4	599-03159
	25	(22)	1-1/2	(40)	3/4	599-03160
	40	(34)	2	(50)	3/4	599-03161

# Flowrite Valve Actuator 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-Hydraulic	24 V, Floating, NSR	<b>SKD82.50U</b>	<b>275</b>
		24 V, Floating, SR	<b>SKD82.51U</b>	<b>276</b>
		24 V, 0-10 V, 4-20 mA SR	<b>SKD62U</b>	<b>274</b>
		24 V, 0-10 V, 4-20 mA SR	<b>SKB62U</b>	<b>291</b>
	Electro-Mechanical	24 V, Floating, 120 sec. NSR	<b>SQX82.00U</b>	<b>272</b>
		24 V, Floating, 30 sec. NSR	<b>SQX82.03U</b>	<b>273</b>
		24 V, 0-10 V, 4-20 mA NSR	<b>SQX62U</b>	<b>271</b>
	Electro-Mechanical	24 V, 2P SR	<b>599-03611</b>	<b>299</b>
		24 V, 0-10 V SR	<b>599-03609</b>	<b>298</b>

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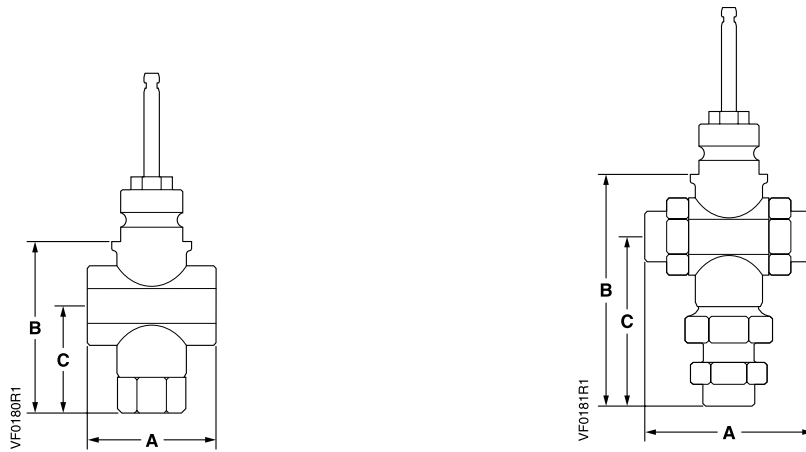
Valves



**Part No. in black box** Ships same day when requested through Rapid Response™ shipping. See inside back cover for details.

**SIEMENS**

# Three-way Globe Valve Body Dimensions and Weights



Female NPT x Female NPT x Female NPT  
(FxFxF)

Union Female x Union Female x Union Female  
(UFxUFxUF)

Valve Size	Dimensions						Weight	
	A	B	C	A	B	C	FxFxF	UFxUFxUF
	FxFxF			UFxUFxUF				
1/2" (15 mm)	2-7/8" (72 mm)	4-5/16" (110 mm)	2-11/16" (68 mm)	4-11/16" (119 mm)	6-1/4" (159 mm)	4-5/8" (117 mm)	3.0 lb. (1.4 kg)	4.0 lb. (1.8 kg)
3/4" (20 mm)	3-3/8" (85 mm)	4-5/16" (110 mm)	2-3/4" (69 mm)	6-3/8" (163 mm)	6-15/16" (176 mm)	5-1/4" (134 mm)	4.0 lb. (1.8 kg)	6.0 lb. (2.7 kg)
1" (25 mm)	3-15/16" (100 mm)	4-1/2" (114 mm)	2-7/8" (72 mm)	7-1/16" (180 mm)	7" (178 mm)	5-3/8" (136 mm)	5.0 lb. (2.3 kg)	7.0 lb. (3.2 kg)
1-1/4" (32 mm)	4-15/16" (125 mm)	4-5/8" (116 mm)	2-15/16" (74 mm)	7-1/2" (190 mm)	6-3/4" (170 mm)	5-1/16" (129 mm)	7.0 lb. (3.2 kg)	11.0 lb. (5 kg)
1-1/2" (40 mm)	5-1/8" (130 mm)	4-5/8" (117 mm)	3" (76 mm)	7-13/16" (199 mm)	6-15/16" (176 mm)	5-5/16" (135 mm)	9.0 lb. (4.1 kg)	13.0 lb. (5.9 kg)
2" (50 mm)	6-1/4" (158 mm)	5-1/8" (130 mm)	3-3/16" (81 mm)	9-1/16" (231 mm)	7-3/16" (182 mm)	5-9/16" (141 mm)	13.0 lb. (5.9 kg)	19.0 lb. (8.6 kg)

## Online Order History

This handy online feature stores all your past and current orders online for quick and easy reference. The Order History function lets you access information such as:

- Ordered By
- Order Number
- Shipping Date
- Date Placed
- Products Ordered
- Shipment Tracking

To view your history and order status, register online at [www.usa.siemens.com/buildingtechnologiesonlineordering](http://www.usa.siemens.com/buildingtechnologiesonlineordering)



## Two-way Flanged Iron Globe Valves

2-1/2 to 6-inch  
Normally Open or Normally Closed



Flowrite Two-Way  
Flanged Iron Valve.

### Description

Designed to work with either pneumatic or electronic actuators, the Flowrite Two-way Valves are available in both ANSI Class 125 and 250 for normally closed or normally open action.

### Features

- Valve flange face-to-face dimensions meet ISA 75.03 standards
- Direct-coupled, universal bonnet
- Equal percentage or linear flow characteristics
- 2-1/2 and 3-inch sizes available with 3/4-inch stroke only
- 4-, 5-, 6-inch are available with a 1-1/2-inch stroke
- Bronze or stainless steel trim
- ANSI Leakage Class IV (0.01% of Cv)
- Cartridge-type packing for easy service

### Applications

The Flowrite Two-way valves are recommended for water, steam, 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
- Steam inlet to 100 psi with modulating differential pressure up to 50 psi (345 kPa)

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Valves

# Two-way Flanged Iron Globe Valve Specifications

**Valve Size** .....2-1/2 to 6" (65 to 150 mm)  
**Body Style** .....Flanged  
**Seat Style** .....Single seat  
**Action** .....Normally Closed (NC); Normally Open (NO)  
**Valve Body Rating** .....ANSI Class 125 or 250  
**Stem Travel (Stroke)**  
 2-1/2 and 3" .....3/4" (20 mm)  
 4, 5 and 6" .....1-1/2" (40 mm)  
**Materials**  
 Body .....Cast Iron ASTM A126 Class B  
 Trim .....Bronze or Stainless Steel  
 Stem .....Stainless Steel ASTM A582 type 303  
 Plug .....Bronze  
**Packing**  
 Normal Duty Packing..... EPDM O-rings  
 Steam Packing.....Teflon V-rings and EPDM O-rings  
**Operating**  
 Controlled Medium .....Saturated steam, water,  
 glycol solutions up to 50%  
**Medium Temperature Range**  
 Normal Duty Packing.....20 to 250°F (-7 to +120°C)  
 Steam Packing.....337°F (170°C) max.

**Max. Inlet Pressure**  
 Water.....Refer to Flowrite Reference Section.  
 Steam.....100 psi (690 kPa)  
**Max. Recommended Differential Pressure for Modulating Service**  
 Bronze Trim  
 Liquid .....25 psi (173 kPa)  
 Steam .....15 psi (103 kPa)  
 Stainless Steel Trim  
 Liquid .....50 psi (345 kPa)  
 Steam .....50 psi (345 kPa)  
**Rangeability** ..... >100:1  
**Close-off Ratings** ..... According to ANSI/FCI 70-2  
**Close-off Pressure** .....Refer to the Flowrite Reference Section.  
**Leakage Rate** ..... Class IV (0.01% of Cv)  
**Mounting Location** ..... NEMA 1 (interior only)  
**Dimensions**  
 Face-to-face .....ANSI/ISA S75.03

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Valves

## Two-way Flanged Iron Globe Valve Body Product Ordering

NO/NC, Equal Percentage



Flow Rate Cv (Kvs)	Valve Size in. (mm)	Stroke (in.)	ANSI Class 125		ANSI Class 250		
			Normally Open Part No.	Normally Closed Part No.	Normally Open Part No.	Normally Closed Part No.	
<b>Standard Temperature Packing — 20 to 250°F (-7 to 120°C)</b>							
<b>Bronze</b>							
63 (54)	2-1/2 (65)	3/4	<b>599-05980</b>	<b>599-05990</b>	<b>599-05940</b>	<b>599-05950</b>	
100 (86)	3 (80)	3/4	<b>599-05981</b>	<b>599-05991</b>	<b>599-05941</b>	<b>599-05951</b>	
160 (140)	4 (100)	1-1/2	<b>599-05982</b>	<b>599-05992</b>	<b>599-05942</b>	<b>599-05952</b>	
250 (215)	5 (125)	1-1/2	<b>599-05983</b>	<b>599-05993</b>	<b>599-05943</b>	<b>599-05953</b>	
400 (340)	6 (150)	1-1/2	<b>599-05984</b>	<b>599-05994</b>	<b>599-05944</b>	<b>599-05954</b>	
<b>Stainless Steel</b>							
63 (54)	2-1/2 (65)	3/4	<b>599-05960</b>	<b>599-05970</b>	<b>599-05920</b>	<b>599-05930</b>	
100 (86)	3 (80)	3/4	<b>599-05961</b>	<b>599-05971</b>	<b>599-05921</b>	<b>599-05931</b>	
160 (140)	4 (100)	1-1/2	<b>599-05962</b>	<b>599-05972</b>	<b>599-05922</b>	<b>599-05932</b>	
250 (215)	5 (125)	1-1/2	<b>599-05963</b>	<b>599-05973</b>	<b>599-05923</b>	<b>599-05933</b>	
400 (340)	6 (150)	1-1/2	<b>599-05964</b>	<b>599-05974</b>	<b>599-05924</b>	<b>599-05934</b>	








## Two-way Flanged Iron Globe Valve Body Product Ordering

NO/NC, Linear, Stainless Steel



Flow Rate Cv	Valve Size in. (mm)	Stroke (in.)	ANSI Class 125		ANSI Class 250		
			Normally Open Part No.	Normally Closed Part No.	Normally Open Part No.	Normally Closed Part No.	
<b>Standard Temperature Packing — 20 to 250°F (-7 to 120°C)</b>							
63 (54)	2-1/2 (65)	3/4	599-06060	599-06140	599-06070	599-06150	
100 (86)	3 (80)	3/4	599-06061	599-06141	599-06071	599-06151	
160 (140)	4 (100)	1-1/2	599-06062	599-06142	599-06072	599-06152	
250 (215)	5 (125)	1-1/2	599-06063	599-06143	599-06073	599-06153	
400 (340)	6 (150)	1-1/2	599-06064	599-06144	599-06074	599-06154	
<b>High Temperature Packing — 337°F (-170°C)</b>							
63 (54)	2-1/2 (65)	3/4	599-06040	599-06120	599-06050	599-06130	
100 (86)	3 (80)	3/4	599-06041	599-06121	599-06051	599-06131	
160 (140)	4 (100)	1-1/2	599-06042	599-06122	599-06052	599-06132	
250 (215)	5 (125)	1-1/2	599-06043	599-06123	599-06053	599-06133	
400 (340)	6 (150)	1-1/2	599-06044	599-06124	599-06054	599-06134	

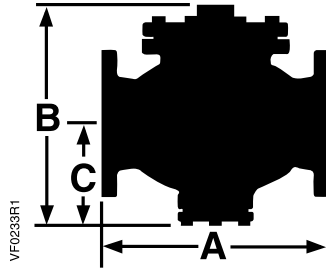
## Flowrite Valve Actuator Product Ordering

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	24 V, Floating NSR	SKD82.50U	275
		24 V, Floating SR	SKD82.51U	276
		24 V, 0-10, V 4-20 mA SR	SKD62U	274
		24 V, Floating NSR	SKB82.50U	290
		24 V, Floating SR	SKB82.51U	289
		24 V, 0-10, V 4-20 mA SR	SKB62U	291
		24 V, Floating NSR	SKC82.60U	293
		24 V, Floating SR	SKC82.61U	292
24 V, 0-10, V 4-20 mA SR	SKC62U	294		

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Valves

## Two-way Flanged Iron Globe Valve Body Dimensions and Weights



Valve Size	ANSI Class 125				ANSI Class 250			
	Dimensions			Weight	Dimensions			Weight
	A	B	C		A	B	C	
<b>Normally Open</b>								
2-1/2" (65 mm)	10-7/8" (276 mm)	11" (281 mm)	4-7/8" (123 mm)	60 lb. (27 kg)	11-1/2" (292 mm)	11" (281 mm)	4-7/8" (123 mm)	76 lb. (34 kg)
3" (80 mm)	11-3/4" (299 mm)	12-1/4" (312 mm)	5-5/16" (135 mm)	76 lb. (34 kg)	12-1/2" (318 mm)	12-1/4" (312 mm)	5-5/16" (135 mm)	99 lb. (45 kg)
4" (100 mm)	13-7/8" (352 mm)	13-9/16" (345 mm)	6-5/16" (160 mm)	124 lb. (56 kg)	14-1/2" (368 mm)	13-5/8" (344.7 mm)	6-5/16" (160 mm)	160 lb. (73 kg)
5" (125 mm)	15-3/4" (400 mm)	15-3/16" (385 mm)	7" (177 mm)	155 lb. (70 kg)	16-5/8" (422 mm)	15-3/16" (385 mm)	7" (177 mm)	208 lb. (94 kg)
6" (150 mm)	17-3/4" (451 mm)	16-3/4" (426 mm)	7-7/8" (200 mm)	212 lb. (96 kg)	18-5/8" (473 mm)	16-3/4" (426 mm)	7-7/8" (200 mm)	302 lb. (137 kg)
<b>Normally Closed</b>								
2-1/2" (65 mm)	10-7/8" (276 mm)	10-5/8" (269 mm)	4-7/8" (125 mm)	58 lb. (26 kg)	11-1/2" (292 mm)	11" (279 mm)	5-3/8" (135 mm)	74 lb. (34 kg)
3" (80 mm)	11-3/4" (299 mm)	11-15/16" (303 mm)	5-5/8" (142 mm)	75 lb. (34 kg)	12-1/2" (318 mm)	12-7/16" (315 mm)	6" (154 mm)	98 lb. (44 kg)
4" (100 mm)	13-7/8" (352 mm)	13-15/16" (354 mm)	6-5/8" (168 mm)	123 lb. (56 kg)	14-1/2" (368 mm)	14-3/8" (364 mm)	7" (178 mm)	159 lb. (72 kg)
5" (125 mm)	15-3/4" (400 mm)	15-1/4" (338 mm)	7-1/2" (185 mm)	153 lb. (69 kg)	16-5/8" (422 mm)	15-3/4" (399 mm)	7-3/4" (196 mm)	207 lb. (94 kg)
6" (150 mm)	17-3/4" (451 mm)	17-1/16" (433 mm)	8-3/16" (207 mm)	209 lb. (95 kg)	18-5/8" (473 mm)	17-1/2" (444 mm)	8-5/8" (218 mm)	299 lb. (136 kg)

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Valves

## High Pressure Close-off Two-Way Flanged Iron Globe Valves



2-1/2 to 6-inch  
Normally Open or Normally Closed



Flowrite Two-Way Flanged Iron  
High Pressure Close-off.

### Description

The Flowrite 599 Series high pressure close-off, two-way flanged iron body globe valves, are designed to work with either pneumatic or electronic actuators with 3/4-inch (20 mm) or 1-1/2-inch (40 mm) stroke. They are available in both ANSI Class 125 and 250 for normally open or normally closed action.

### Features

- Universal bonnet, for direct-coupled actuators
- Equal percentage flow characteristic
- Stainless steel trim and stems
- Metal-to-metal seats
- 200 psi close-off for all line sizes
- ANSI Class IV leakage ( $\leq 0.01\%$  of Cv)
- 100:1 rangeability or better
- EPDM O-ring packing

### Applications

Typical applications include control of hot or chilled water; or water-glycol solutions up to 50%.

D-133

Valves

# High Pressure Close-off, Two-way Flanged Iron Globe Valve Specifications

**Valve Size** .....2-1/2 to 6" (65 to 150 mm)  
**Body Style** .....Cast Iron ASTM A126 Class B  
**Seat Style** .....Metal-to-metal  
**Action** .....Normally Open (NO) or Normally Closed (NC)  
**Valve Body Rating** .....ANSI Class 125 or 250  
**Stem Travel**  
 2-1/2 and 3" ..... 3/4" (20 mm) stroke  
 4, 5 and 6" ..... 1-1/2" (40 mm) stroke  
**Materials**  
 Body .....Cast Iron ASTM A126 Class B  
 Trim .....Stainless Steel  
 Stem .....Stainless Steel ASTM A582 Type 303  
 Plug .....Stainless Steel  
**Packing**  
 Normal Duty Packing .....EPDM O-ring  
**Operating**  
 Controlled Medium .....Water, water-glycol solutions to 50%




**Medium Temperature Range** .....20°F to 250°F (-7 to 120°C)  
**Max. Inlet Pressure**  
 Water.....Refer to Flowrite Reference Section  
**Max. Recommended Differential Pressure for Modulating Service**  
 Stainless Steel Trim  
 Liquid..... 50 psi (345 kPa)  
**Rangeability** ..... >100:1  
**Close-off Ratings** ..... According to ANSI/FCI 70-2  
**Close-off Pressure** ..... 200 psi  
**Leakage Rate** ..... Class IV (≤ 0.01% of Cv)  
**Mounting Location** ..... NEMA 1 (interior only)  
**Dimensions**  
 Face-to-Face.....ANSI/ISA 575.03

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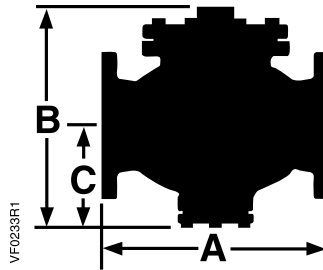
## High Pressure Close-off, Two-way Flanged Iron Globe Valve Body Product Ordering NO/NC, Equal Percentage

Flow Rate Cv (Kvs)	Valve Size in. (mm)	Stroke (in.)	ANSI Class 125		ANSI Class 250		
			Normally Open Part No.	Normally Closed Part No.	Normally Open Part No.	Normally Closed Part No.	
<b>Standard Temperature Packing — 20 to 250°F (-7 to 120°C)</b>							
63 (54)	2-1/2 (65)	3/4	<b>599-06610</b>	<b>599-06615</b>	<b>599-06620</b>	<b>599-06625</b>	
100 (86)	3 (80)	3/4	<b>599-06611</b>	<b>599-06616</b>	<b>599-06621</b>	<b>599-06626</b>	
160 (140)	4 (100)	1-1/2	<b>599-06612</b>	<b>599-06617</b>	<b>599-06622</b>	<b>599-06627</b>	
250 (215)	5 (125)	1-1/2	<b>599-06613</b>	<b>599-06618</b>	<b>599-06623</b>	<b>599-06628</b>	
400 (340)	6 (150)	1-1/2	<b>599-06614</b>	<b>599-06619</b>	<b>599-06624</b>	<b>599-06629</b>	

## Flowrite Valve Actuator Product Ordering

Description		Part No.	Actuator Prefix Code
 8"	Pneumatic w/Positioner	20 mm Stroke <b>599-01050 + 599-00426</b>	<b>283</b>
 12"	Pneumatic w/Positioner	40 mm Stroke <b>599-01000 + 599-00423</b>	<b>287</b>
	Electro-Hydraulic	24 V, 0-10, V 4-20 mA SR <b>SKB62U</b>	<b>291</b>
		24 V, 0-10, V 4-20 mA SR <b>SKC62U</b>	<b>294</b>

## Dimensions and Weights



Valve Size	ANSI Class 125				ANSI Class 250			
	Dimensions			Weight	Dimensions			Weight
	A	B	C		A	B	C	
<b>Normally Open</b>								
2-1/2" (65 mm)	10-7/8" (276 mm)	11" (281 mm)	4-7/8" (123 mm)	62 lb. (28 kg)	11-1/2" (292 mm)	11" (281 mm)	4-7/8" (123 mm)	78 lb. (36 kg)
3" (80 mm)	11-3/4" (299 mm)	12-1/4" (312 mm)	5-5/16" (135 mm)	79 lb. (36 kg)	12-1/2" (318 mm)	12-1/4" (312 mm)	5-5/16" (135 mm)	102 lb. (46 kg)
4" (100 mm)	13-7/8" (352 mm)	13-9/16" (345 mm)	6-5/16" (160 mm)	129 lb. (58 kg)	14-1/2" (368 mm)	13-5/8" (344.7 mm)	6-5/16" (160 mm)	165 lb. (75 kg)
5" (125 mm)	15-3/4" (400 mm)	15-3/16" (385 mm)	7" (177 mm)	172 lb. (73 kg)	16-5/8" (422 mm)	15-3/16" (385 mm)	7" (177 mm)	215 lb. (97 kg)
6" (150 mm)	17-3/4" (451 mm)	16-3/4" (426 mm)	7-7/8" (200 mm)	222 lb. (111 kg)	18-5/8" (473 mm)	16-3/4" (426 mm)	7-7/8" (200 mm)	312 lb. (142 kg)
<b>Normally Closed</b>								
2-1/2" (65 mm)	10-7/8" (276 mm)	10-5/8" (269 mm)	4-7/8" (125 mm)	60 lb. (27 kg)	11-1/2" (292 mm)	11" (279 mm)	5-3/8" (135 mm)	76 lb. (35 kg)
3" (80 mm)	11-3/4" (299 mm)	11-15/16" (303 mm)	5-5/8" (142 mm)	78 lb. (36 kg)	12-1/2" (318 mm)	12-7/16" (315 mm)	6" (154 mm)	101 lb. (46 kg)
4" (100 mm)	13-7/8" (352 mm)	13-15/16" (354 mm)	6-5/8" (168 mm)	128 lb. (58 kg)	14-1/2" (368 mm)	14-3/8" (364 mm)	7" (178 mm)	164 lb. (74 kg)
5" (125 mm)	15-3/4" (400 mm)	15-1/4" (338 mm)	7-1/2" (185 mm)	160 lb. (72 kg)	16-5/8" (422 mm)	15-3/4" (399 mm)	7-3/4" (196 mm)	214 lb. (97 kg)
6" (150 mm)	17-3/4" (451 mm)	17-1/16" (433 mm)	8-3/16" (207 mm)	219 lb. (100 kg)	18-5/8" (473 mm)	17-1/2" (444 mm)	8-5/8" (218 mm)	309 lb. (141 kg)

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Valves

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## 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 ISA 75.03 standards
- Direct-coupled, universal bonnet
- Equal percentage (NC port) and linear (NO port) flow characteristics
- Bronze or stainless steel trim
- Rangeability >100:1
- 2-1/2 to 3-inch are available with a 3/4-inch stroke
- 4-, 5-, and 6-inch are available as 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

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Valves

## 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  
 Plug ..... Bronze  
**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 psi (173 kPa)  
 Stainless Steel Trim ..... 50 psi (345 kPa)  
**Flow Characteristics**  
 Upper Port ..... Mod. equal percentage  
 Lower Port ..... Linear  
**Rangeability** ..... >100:1  
**Mounting Location** ..... NEMA 1 (interior only)

## Mixing Flanged Iron Globe Valve Body Product Ordering Linear, Bronze Trim

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






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

### Ordering Note

Service Flange is sold separately.



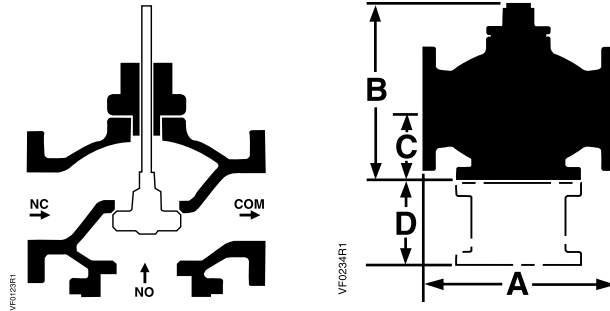
## Flowrite Valve Actuator Product Ordering

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

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Valves

# Dimensions and Weights



Valve Size	Dimensions					Weight	
	A		B	C	D	ANSI Class 125	ANSI Class 250
	ANSI Class 125	ANSI Class 250			Service Flange		
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)

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Valves