Two-way Valves

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



Powermite MZ Series Two-way Globe Valve.

Description

The Powermite MZ Series Two-way Globe Valves are designed to work with the SSB MZ Series Actuator with a 7/32-inch (5.5 mm) stroke.

Features

- Direct-coupled universal bonnet/no tools required for installation
- ANSI Leakage Class IV (0.01% of Cv)
- ANSI Class 250 body
- · Variety of actuators available
 - 0 to 10 V non-spring return
 - Floating control non-spring return
- · Choice of end connections
- Greater than 100:1 rangeability for Cv ≥1
- Orderable as a valve only or as a complete valve/actuator assembly

Applications

The Powermite MZ Series Two-way Globe Valves are used for control of hot or chilled water for convectors, fan coil units, unit conditioners, radiation, reheat coils, and similar terminal units requiring an actuator that delivers a minimum of 45 lbf. (200 N) of force.

Recommendation:

Use only with the MZ Series SSB Valve Actuators.

A-125

Valves





A-126

Valve Size	1/2 to 1" (15 to 25 mm)
Body Style	Globe
Seat Style	Metal to Metal
Action	NO/NC
Valve Body Rating	ANSI Class 250
Stem Travel (Stroke)	7/32" (5.5 mm)
Materials Body	
Stem	BrassStainless Steel ASTM A 582 Type 303EPDM O-rings
Controlled Medium	Water, Glycol Solutions up to 50%

Max. Recommended Differential Pressure for Modulating Service	25 psig (173 kPa)
Rangeability Cv<1	>50:1
Cv≥1	>100:1
Close-off Ratings	According to ANSI/FCI 70-2
Leakage Rate	Class IV (0.01% of Cv)
Flow Characteristics	Modified Equal Percentage
Mounting Location	NEMA 1 (Interior Only)



Refer back to the Selection Charts at the beginning of this section to make sure the configuration is valid.

Two-way MZ Series Valve Body Product Ordering

Normally Open/Normally Closed, Brass Trim



Valve Size		Flow Rate		Normally Open	Normally Closed Part No.	
	` ,		` ,		599-01100	
	. ,		, ,			
	` ,	0.63			599-01102	
1/2	(15)	1	(0.85)	599-01119	599-01104	
1/2	(15)	1.6	(1.37)	599-01121	599-01106	
1/2	(15)	2.5	(2.14)	599-01123	599-01108	
1/2	(15)	4	(3.42)	599-01126	599-01110	
3/4	(20)	6.3	(5.38)	599-01129	599-01112	
1	(25)	10	(8.55)	599-01131	599-01114	
1/2	(15)	0.4	(0.34)	599-01116	599-01101	
1/2	(15)	0.63	(0.54)	599-01118	599-01103	
1/2	(15)	1	(0.85)	599-01120	599-01105	
1/2	(15)	1.6	(1.37)	599-01122	599-01107	
1/2	(15)	2.5	(2.14)	599-01124	599-01109	
1/2	(15)	4	(3.42)	599-01127	599-01111	
3/4	(20)	6.3	(5.38)	599-01130	599-01113	
1/2	(15)	2.5	(2.14)	599-01125	_	
1/2	(15)	4	(3.42)	599-01128	_	
	in. 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	in. (mm) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 3/4 (20) 1 (25) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15) 1/2 (15)	in. (mm) Cv 1/2 (15) 0.4 1/2 (15) 0.63 1/2 (15) 1 1/2 (15) 1.6 1/2 (15) 2.5 1/2 (15) 4 3/4 (20) 6.3 1 (25) 10 1/2 (15) 0.4 1/2 (15) 0.63 1/2 (15) 1 1/2 (15) 1.6 1/2 (15) 2.5 1/2 (15) 4 3/4 (20) 6.3 1/2 (15) 2.5	in. (mm) Cv (Kvs) 1/2 (15) 0.4 (0.34) 1/2 (15) 0.63 (0.54) 1/2 (15) 1 (0.85) 1/2 (15) 1.6 (1.37) 1/2 (15) 2.5 (2.14) 1/2 (15) 4 (3.42) 3/4 (20) 6.3 (5.38) 1 (25) 10 (8.55) 1/2 (15) 0.4 (0.34) 1/2 (15) 0.63 (0.54) 1/2 (15) 1 (0.85) 1/2 (15) 1.6 (1.37) 1/2 (15) 2.5 (2.14) 1/2 (15) 4 (3.42) 3/4 (20) 6.3 (5.38) 1/2 (15) 2.5 (2.14)	in. (mm) Cv (Kvs) Part No. 1/2 (15) 0.4 (0.34) 599-01115 1/2 (15) 0.63 (0.54) 599-01117 1/2 (15) 1 (0.85) 599-01119 1/2 (15) 1.6 (1.37) 599-01121 1/2 (15) 2.5 (2.14) 599-01123 1/2 (15) 4 (3.42) 599-01126 3/4 (20) 6.3 (5.38) 599-01126 3/4 (20) 6.3 (5.38) 599-01129 1 (25) 10 (8.55) 599-01131 1/2 (15) 0.4 (0.34) 599-01146 1/2 (15) 0.63 (0.54) 599-01118 1/2 (15) 1.6 (1.37) 599-01120 1/2 (15) 2.5 (2.14) 599-01124 1/2 (15) 4 (3.42) 599-01127 3/4 (2	

Two-way MZ Series Valve Actuator Product Ordering

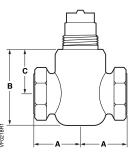
Description			Part No.	Actuator Prefix Code	
3.10	24 V, floating Non-Spring Return	SSB81U	254		
	24 V, 0-10 V Non-Spring Return	SSB61U	255		

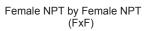
Accessories & Service Kits

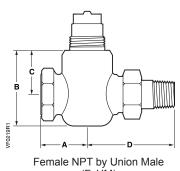
A-257

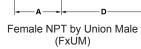


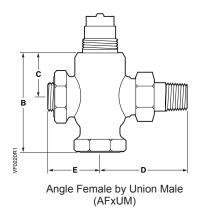
Dimensions and Weights











	Dimensions						Weight		
Valve Size	Α	E	В С			Е	vveigin		
in.		FxF & FxUM	AFxUM (NO Only)			(NO Only)	FxF	FxUM	AFxUM
1/2" (15 mm)	1-3/8" (35 mm)	2-1/4" (57 mm)	2-15/16" (74 mm)	1-5/16" (33 mm)	2-5/8" (67 mm)	1-1/2" (38 mm)	1.3 lb. (0.6 kg)	1.5 lb. (0.7 kg)	1.8 lb. (0.8 kg)
3/4" (20 mm)	1-5/8" (41 mm)	2-3/8" (59 mm)	_	1-5/16" (33 mm)	3-1/8" (79 mm)	_	1.8 lb. (0.8 kg)	2.2 lb. (1 kg)	_
1" (25 mm)	1-15/16" (49 mm)	2-3/4" (69 mm)	_	1-9/16" (39 mm)	_	_	2.6 lb. (1.2 kg)	_	_