Two- & Three-Way MT Series Globe Valves

1/2 to 1" Normally Open, Normally Closed, Mixing ANSI Class 250

Description

The Powermite MT Series Globe Valves are designed to work with either a pneumatic or electronic actuator with a 7/32-inch (5.5 mm) stroke. Compatible actuators deliver a minimum of 67 lbf. (300 N) of force.

Features

- Direct-coupled universal bonnet/no tools required for installation
- · Choice of brass or stainless steel trim
- ANSI Leakage Class IV (0.01% of Cv)
- ANSI Class 250
- Available in 3 to 8 psi, 8 to 13 psi, or 10 to 15 psi spring ranges with pneumatic actuation
- Available with spring return and non-spring return 0-10 and floating control electronic actuators
- Greater than 100:1 rangeability for Cv ≥1.0
- Rated for 15 psi steam with stainless steel trim
- Interchangeable pneumatic or electronic actuators

Applications

Typical applications include control of hot or chilled water, glycol solutions up to 50%, or steam up to 15 psi (103 kPa).

Recommendation

Only use the MT Series Valve Actuators. When using this valve with a pneumatic actuator, note that MT valve bodies have the spring in the body, rather than the actuator. To order the correct valve body, select the proper spring range.

Alternate spring ranges for pneumatic sequencing are available as valve and actuator factory assemblies only.

Specifications

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Valve Size	1/2 to 1" (15 to 40 mm)
Body Style	Globe
Seat Style	Metal to Metal
•	NO/NC/Three-Way Mixing
	ANSI Class 250
Materials	
	rged Brass C37700 or UNS CA 844 Bronze
Trim	Stainless Steel or Brass
	Stainless Steel ASTM A582 Type 303
Packing	EPDM O-rings
Controlled Medium	Water, Steam, Glycol Solutions up to 50%
Spring Range	
Standard – 2-Way	
	10 to 15 psig (69 to 103 kPa)
Normally Open	3 to 8 psig (21 to 55 kPa)
Optional – 2-Way	
Normally Closed	3 to 8 psig (21 to 55 kPa)
	8 to 13 psig (55 to 90 kPa)
Normally Open	8 to 13 psig (55 to 90 kPa)
Standard 2 Way Missing	10 to 15 psig (69 to 103 kPa)
	8 to 13 psig (55 to 90 kPa) 3 to 8 psig (21 to 55 kPa)
Optional – 3-Way Mixing	10 to 15 psig (69 to 103 kPa)
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	35 to 250°F (2 to 120°C)
	20 to 250°F (-7 to 120°C)
Max. Recommended Differential	
Pressure for Liquid Modulating So	ervice 25 psi (173 kPa)
	50 psi (345 kPa)
Rangeability	
	>50:1
	>100:1
	According to ANSI/FCI 70-2
_	Class IV (0.01% of Cv)
Flow Characteristics	,
	Modified Equal Percentage
Three-Way Mixing	
A→AB	Modified Equal Percentage
	Linear



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