Zone Globe Valve Bodies, Screwed, Two & Three-way

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DESCRIPTION

1/2" to 3/4" screwed, single seated, 2-way and 3-way, 232 PSIG body rated, hot and chilled water valves.

APPLICATION

Valves for 2-way or 3-way mixing configuration in heating, ventilation and air conditioning systems; i.e. fan coil units, reheat of VAV/VVT boxes, base boards, and other AC units.

FEATURES

- 232 PSIG body rated
- Hot & chilled water
- 3-way bypass with reduced Cv's for balanced system pressure
- High turndown ratio
- Spring return, w/o actuator
- External manual override, screw-on cap
- Easy valve actuator pop-on
- Maintenance free
- Two-year warranty



SPECIFICATIONS

Physical

Stem stroke

Leakage

Body rating Media Water temperature - w/ MVT actuator Glycol added Pipe Connection Material/Characteristics Valve body - packing - stem - plug - seat

232 PSIG (1600 kPa)

41°F to 203°F (5°C to 95°C) Max. 50% of water contents Screwed, NPT, male

Brass, OT58 Double O-ring, buna N CrNi stainless steel IXEF, Rilsan coated Brass, OT58, machined 0.22 in. (5.5 mm) None; tightly closed off

Stroke Cv

straight-way
angle-away
Max. flow
Spring return

Manual override Valve Actuator Compatibilities Manufacturing Listings/Approvals Warranty Equal percentage Linear 590 ft/min (3 m/sec) Springs back to stem-up, refer to table "Valve Action" With optional black cap "VST-CAP MVT actuator series Easy pop-on, screw connection ISO 9000 certified CE Two-year material and workmanship

Size	Flow Coeffi	cient	Max.		Max. Close-Off Pressure		Part Numbers	
	2 + 3-Way	3-Way	Differential Pressure				2-Way	3-Way
	Straight A to AB	Angle B to AB			w/ MVT Actuator			
Inch (mm)	Cv (Kv)	Cv (Kv)	PSIG (kPa)		PSI	G (kPa)		
1/2" (15) 1/2" (15) 1/2" (15)	0.29 (0.25) 0.46 (0.4) 0.69 (0.6)	0.29 (0.25) 0.29 (0.25) 0.46 (0.4)	51 51 51	(350) (350) (350)	51 51 51	(350) (350) (350)	VST09-PS2 VST10-PS2 VST11-PS2	VMT09-PS2 VMT10-PS2 VMT11-PS2
1/2" (15) 1/2" (15) 1/2" (15)	1.16 (1) 1.85 (1.6) 2.89 (2.5)	0.69 (0.6) 1.16 (1) 1.85 (1.6)	51 51 51	(350) (350) (350)	51 51 51	(350) (350) (350)	VST12-PS2 VST13-PS2 VST1-PS2	VMT12-PS2 VMT13-PS2 VMT1-PS2
3/4" (20)	4.62 (4)	2.89 (2.5)	37	(250)	37	(250)	VST2-PS2	VMT2-PS2





VST, VMT



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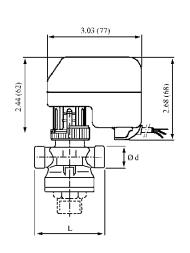
certified ISO 9000

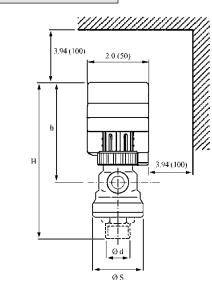


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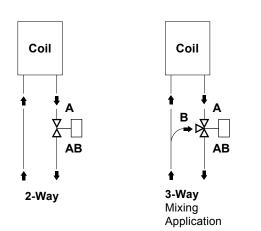
Valve Body Dimensions, Inch (mm)					
Size Ø d	L	ØS	h	H VST	H VMT
1/2" 3/4"	2.6 (66) 3.1 (77)	1.7 (42) 1.8 (46)	3.4 (85) 3.5 (88)	4.9 (124) 5.2 (131)	5.6 (142) 5.8 (147)

Valve Body	Size	Weight Ibs. (kg)	
VST	1/2"	0.9 (0.4)	
2-way	3/4"	1.1 (0.5)	
VMT	1/2"	1.0 (0.45)	
3-way	3/4"	1.2 (0.55)	





VALVE PIPING & OPERATION



Valve markings on body for 2-way: **A** and **AB** 3-way: **A**, **B** and **AB** To avoid valve clogging, all dirt, metal shavings, slag, sand, etc. located inside of piping must be removed/flushed out prior to installing the valve.

Avoid installing the valve in a location where it will be subjected to vibration.

The valve body should be piped up without the actuator assembled.

The valve can be piped in horizontal or vertical position, but not in the valve stem downwards position.

2-way valves must be piped with flow input A to output AB.

3-way valves should be piped as mixing configuration (flow input **A** and input **B** to output **AB**).

If piped incorrectly, valve performance may falter.

Valve Action	Without actuator	MVT actuator coupled
Port A to AB	coupled	Control signal increased/decreased
VST 2-way, and VMT 3-way	closed, stem-up (spring return)	moves into 0100% open/closed position, in case of power failure stays in last position of operation

The valve can be manually opened, closed or put in any position by screwing the black cap up or down the valve stem. This operation is possible only if the actuator is not assembled.



