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

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DESCRIPTION

Ultra compact $\frac{1}{2}$ " and $\frac{3}{4}$ " screwed, 2-way and 3-way, spring-return hot and chilled water valves with zero-leakage seat.

Compatible with MVX.. and MVR.. series electro-thermal actuators for noiseless, spring return, normally open or closed flow control.

APPLICATION

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

FEATURES

- Ultra-compact design
- · Hot & chilled water
- 232 PSIG rated body
- 3-way bypass with reduced Cv's for balanced system pressure
- Zero-leakage, tightly closed-off seat
- High turndown ratio
- Spring return, w/o actuator
- Optional manual override, screw-on cap
- · Easy pop-on valve actuator
- Maintenance free
- Two-year warranty





certified ISO 9000

SPECIFICATIONS

Physical	
Body rating	232 PSIG (1600 kPa)
Media	
Water temperature	
 w/ MVX actuator 	41°F to 203°F (5°C to 95°C)
Glycol added	Max. 30% of water contents
Pipe Connection	Screwed, NPT male
Material/Characteristics	
Valve body	Brass
- packing	Double O-ring, Viton
V.X24/26P	Double O-ring, EPDM
- stem	Stainless steel
- plug	NBR
- seat	Technopolymer

Stem stroke Leakage Stroke Cv - straight or angle-away Max. flow Spring return, no actuator installed Manual override Valve Actuator Compatibilities

Manufacturing Listings/Approvals Warranty

0.1 in. (2.5 mm) None, tightly closed off

Linear 590 ft/min (3m/sec)

Part A to AB closed With optional black cap "VXC-CAP"

MVX or MVR actuator series Easy pop-on, screw connection ISO 9000 certified CE Two-year material and

workmanship

Size	Flow Coefficient		Max.		Max.		Part Numbers	Actuator	
Inch (mm)	2 & 3-way Straight A to AB Cv (Kv)	3-way Angle B to AB Cv (Kv)	Differential PressureClose-Off PressureA to ABA to ABPSIG (kPa)PSIG (kPa)		AB	2-way	3-way	Compatibility	
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) 0.46 (0.4) 0.69 (0.6)	40 40 40	(250) (250) (250)	40 40 40	(250) (250) (250)	VSX09P-PS6 VSX10P-PS6 VSX11P-PS6	VMX09P-PS6 VMX10P-PS6 VMX11P-PS6	MVX41/21/57 "SR-N.C."
1/2" (15) 1/2" (15)	1.16 (1) 1.85 (1.6)	0.92 (0.8) 1.16 (1)	40 40	(250) (250)	40 40	(250) (250)	VSX12P-PS6 VSX13P-PS6	VMX12P-PS6 VMX13P-PS6	MVR "SR-N.O."
3/4" (20)	2.89 (2.5)	1.85 (1.6)	22	(150)	22	(150)	VSX21P-PS6	VMX21P-PS6	SR-N.O.
3/4" (20) 3/4" (20)	4.62 (4) 6.94 (6)	2.89 (2.5) 4.62 (4)	22 22	(150) (150)	22 22	(150) (150)	VSX24P-PS6 VSX26P-PS6	VMX24P-PS6 VMX26P-PS6	MVX42/22/52 "SR-N.C."

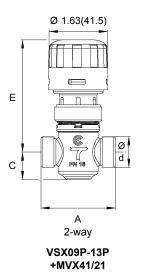


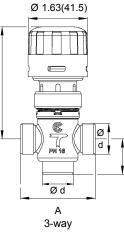




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Valve with Actuator Dimensions, Inch (mm)									
Valve Body	Actuator	Size Ø d	Α	B 2-way	B 3-way	C 2-way	C 3-way	ØD	E
V.X09P-13P -	+ MVX41/21	1/2"	2.05 (52)	3.76 (95.5)	3.98 (101)	0.77 (19.5)	0.98 (25)	1.10 (28)	2.99 (76)
V.X21P -	+ MVX41/21	3/4"	2.20 (56)	3.76 (95.5)	4.33 (110)	0.77 (19.5)	1.34 (34)	1.10 (28)	2.99 (76)
V.X24P-26P -	+ MVX42/22	3/4"	3.07 (78)	4.45 (113)	5.04 (128)	0.81 (20.5)	1.40 (35.5)	1.97 (50)	3.64 (92.5)
V.X09P-13P	HVX57	1/2"	2.05 (52)	4.43 (112.5)	4.65 (118)	0.77 (19.5)	0.98 (25)	1.10 (28)	3.66 (93)
V.X21P -	HVX57	3/4"	2.20 (56)	4.43 (112.5)	5.00 (127)	0.77 (19.5)	1.34 (34)	1.10 (28)	3.66 (93)
V.X24P-26P -	HVX52	3/4"	3.07 (78)	5.12 (130)	5.71 (145)	0.81 (20.5)	1.40 (35.5)	1.97 (50)	4.31 (109.5)
V.X09P-13P -	HVR	1/2"	2.05 (52)	4.49 (114)	4.72 (120)	0.77 (19.5)	0.98 (25)	1.10 (28)	3.72 (94.5)
V.X21P -	HVR	3/4"	2.20 (56)	4.49 (114)	5.06 (128.5)	0.77 (19.5)	1.34 (34)	1.10 (28)	3.72 (94.5)

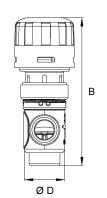




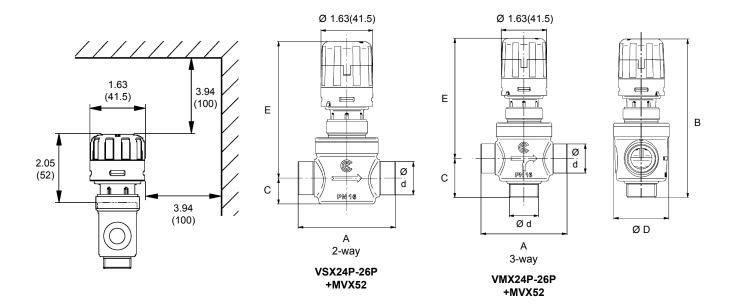
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3-way VMX09P-13P +MVX41/21



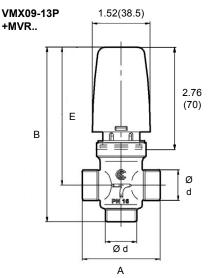
Valve Body	Size	Weight Ibs (kg)	
V.X09P-13P 2 - way, 3-way	1/2"	0.29 (0.13)	
V.X21P 2 - way, 3-way	3/4"	0.40 (0.18)	
V.X24P-26P 2 - way, 3-way	3/4"	0.90 (0.40)	
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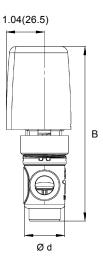
relevant.

VSX-VMX





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3-way

OPTIONS & ACCESSORIES

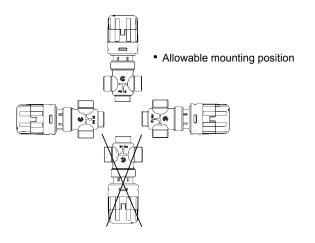
VXC-CAP



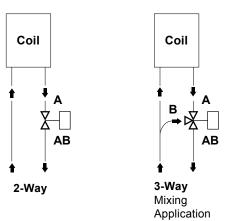
Manual override cap

The valve can be manually opened, closed, and put into any position by screwing the override cap onto the threaded neck portion of the valve body, and stroking up or down the valve stem.

Valve	without	Actuator Coupled						
Action	actuator coupled	M	VX	MVR				
Port A to AB - Spring return		0% Power	100% Signal Power	0% Power	100% Signal Power			
VSXP 2-way VMXP 3-way	closed stem up	closed stem up	open stem down	open stem down	closed stem up			



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 the 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 a horizontal or vertical position, but not if the valve stem points downwards.

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

3-way valves should be piped as a mixing configuration (flow input \bf{A} and input \bf{B} to output \bf{AB} .)

If piped incorrectly, valve performance may falter.

