

B3...VS Series, 3-Way, Ball Valve Bronze Body, Stainless Steel Ball and Stem



- 316 Stainless Ball and Stem
- Reinforced PTFE seats and stuffing box
- Blow-out proof stem design
- Adjustable packing gland

Application

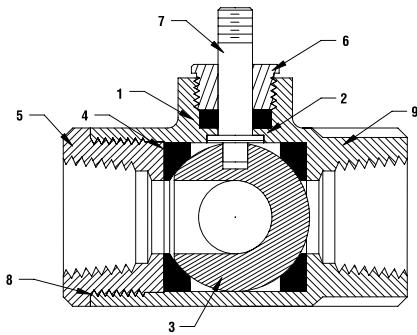
These threaded valves are designed to provide modulating or two position control of hot or chilled water.

Typical applications include reheat coils, VAV terminal control, unit ventilators, and air handlers, especially in areas which have minimum profile requirements.

- 400 PSIG WOG, Cold Non-Shock

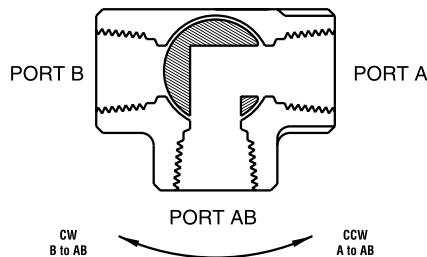
Technical Data	
Media	chilled or hot water, glycol
Flow characteristic	modified equal percentage
Action	90° rotation A to AB open CCW, B to AB open CW
Sizes	½", ¾", 1", 1¼", 1½", 2"
Type of end fitting	SAE NPT (female connection)
Materials:	
1 Stem Packing	PTFE
2 Stem Bearing	PTFE
3 Ball	316 Stainless Steel
4 Seat (x2)	PTFE w/ Durafill
5 Retainer	B16 (½" - 1") Brass B584 (1¼" - 2") Brass
6 Gland	ASTM B16 Brass
7 Stem	316 Stainless steel
8 Jam Nut	PTFE (1¼" - 2")
9 Body Seal	B584-C84400 Bronze

C _v	Valve Nominal Size		Type	Suitable Return Actuators		
	Inches	DN (mm)		Spring		Non-Spring
4.8	½	15	B315VS	LF	NF	LN
11	¾	20	B320VS	NF		NM Series
21	1	25	B325VS	AF Series		
33	1¼	32	B332VS			AM
49	1½	40	B340VS			GM Series
91	2	50	B350VS			

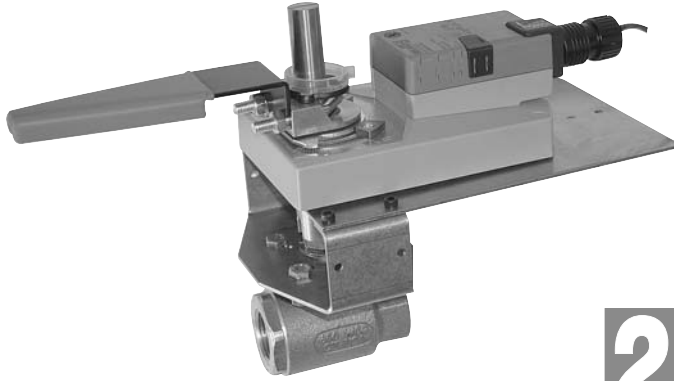


Pressure rating	400 psig WOG
Media temp. range	-22°F to 250°F (-30°C to 120°C)
Close-off pressure	400 psig @ 100°F
Maximum differential pressure (ΔP)	<75 psig

Flow Patterns



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MFT **2 YEAR WARRANTY**



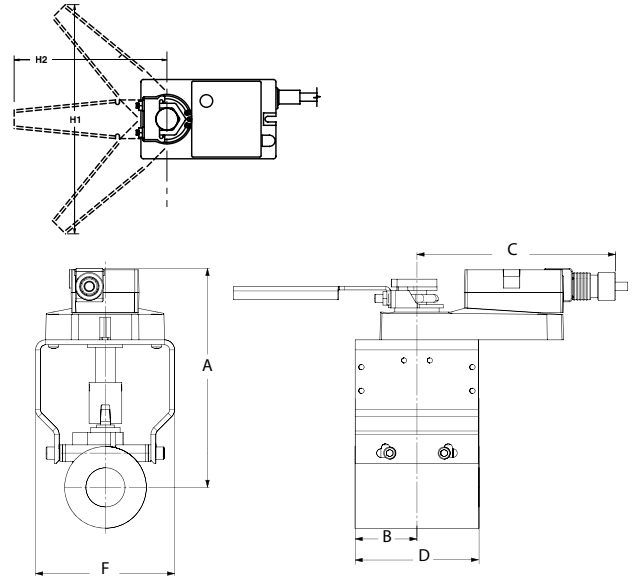
Models

GKX24-MFT-X1

Technical Data	
Control	on/off, floating point, 2 to 10 VDC
Power supply	24 VAC ± 20% 50/60 Hz 24 VDC ± 10%
Power consumption	running 4.5 W holding 3 W
Transformer sizing	7 VA (Class 2 power source)
Electrical connection	3 ft, 18 GA plenum rated cable ½" conduit connector
Overload protection	electronic throughout rotation
Angle of rotation	95°
Direction of rotation	external switch
Position indication	reflective visual indicator (snap-on)
Running time	motor 150 seconds fail-safe 35 seconds
Fail-Safe setting	0-100% at 10% intervals
Manual override	external push button
Humidity	5 to 95% RH non-condensing
Ambient temperature	-22°F to 122°F [-30°C to 50°C]
Housing	NEMA 2/IP54, Enclosure Type 2
Housing material	UL94-5V (flammability rating)
Auxiliary switch(es)	add on: 1 or 2 SPDT, 3A (0.5A inductive) @ 250V adjustable 5° to 85°
Agency listings	cULus according to UL 60730-1A/-2-14, CAN/CSA E60730-1:02, CE according to 2004/108/EC and 206/EC
Noise level	<45 dB(A)
Quality standard	ISO 9001

♦ Variable with MFT

Dimensions with 2-Way Valve

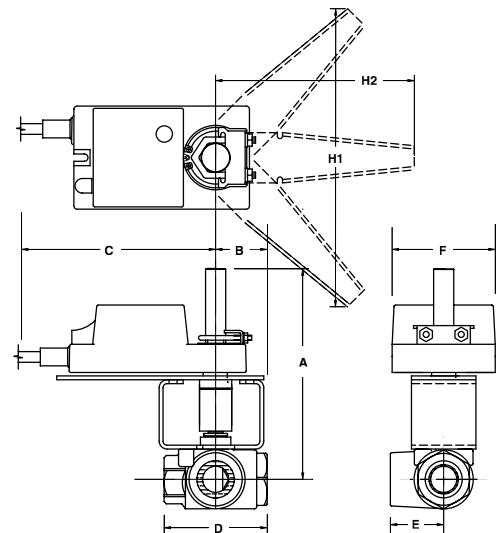


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Valve Nominal Size **Dimensions (Inches)**

Valve Body	COP	Inches	DN [mm]	A	B	C	D	F	H1	H2
B2300VS-370	400	3	80	8.65	2.37	8.50	6.80	5.32	9.75	8.50
2*B2250VSS-503	1000	2½	65	8.65	2.37	8.50	6.80	5.32	9.75	8.50
2*B2300VSS-370	1000	3	80	8.65	2.37	8.50	6.80	5.32	9.75	8.50

Dimensions with 3-Way Valve



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Valve Nominal Size **Dimensions (Inches)**

Valve Body	COP	Inches	DN [mm]	A	B	C	D	E	F	H1	H2
B332VS	200	1¼	32	7.00	2.00	8.00	4.44	2.25	6.25	9.75	8.50
B340VS	75	1½	40	7.00	2.00	8.00	4.44	2.25	6.25	9.75	8.50
B350VS	75	2	50	15.00	8.00	8.00	5.38	2.75	6.25	9.25	8.50
B350VS	200	2	50	15.00	8.00	8.00	5.38	2.75	6.25	9.75**	8.50**

**Handles not available on spring return series or dual mounted actuators

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Wiring Diagrams

- 1 Provide overload protection and disconnect as required.
- 2 Actuators may be connected in parallel if not mechanically mounted to the same shaft. Power consumption and input impedance must be observed.
- 3 Actuators may also be powered by 24 VDC.
- 4 Position feedback cannot be used with Triac sink controller. The actuator internal common reference is not compatible.
- 5 Control signal may be pulsed from either the Hot (source) or the Common (sink) 24 VAC line.
- 6 ZG-R01 may be used.
- 7 Contact closures A & B also can be triacs.
- 8 A & B should both be closed for triac source and open for triac sink. For triac sink the common connection from the actuator must be connected to the hot connection of the controller.

