G340, 3-Way, Globe Valve, Bronze Trim, Mixing

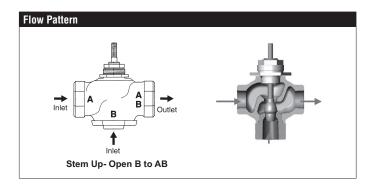






1	
	WARRAN

Technical data	
Service	chilled, hot water, up to 60% glycol
Flow Characteristic	linear
Controllable Flow Range	stem up - open B to AB
Size [mm]	1.5" [40]
End Fitting	NPT female ends
Body	bronze
Stem	stainless steel
Stem Packing	spring loaded Teflon V-ring
Seat	bronze
Plug	brass
Disc	composition (EPDM)
Body Pressure Rating [psi]	ANSI 250
ANSI Class	ANSI 250 (up to 400 psi below 150°F)
Media Temperature Range	20°F to 280°F [-7°C to 138°C]
(Water)	
Max Differential Pressure (Water)	35 psi (241 kPa)
Leakage	ANSI Class III
Rangeability	A-port 100:1, B-port 500:1
Cv	28
Weight	5.7 lb [2.6 kg]
Servicing	Repack/Rebuild kits available

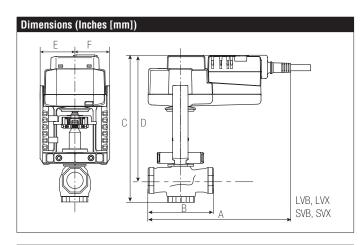


Application

This valve is typically used in Air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in hydronic system with constant or variable flow. 3-way valves are available with mixing or diverting flow patterns.

Suitable Actuators

	Non-Spring	Spring	Electronic Fail-Safe
G340	SVB(X)	AFB(X)	SVKB(X)

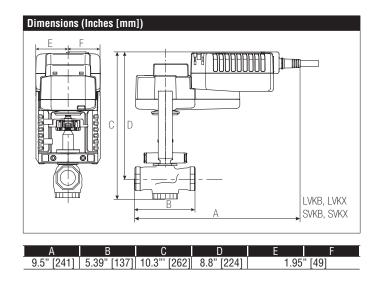


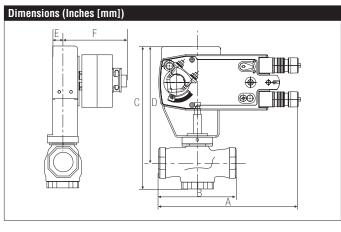
А	В	С	D	Е	F
9" [229]	5.39" [137]	10.35"	8.8" [224]	1.95	" [49]
		[263]			

Piping

The valves should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. The G2(S) and G3(D) preferred mounting position of the valve is with the valve stem vertical above the valve body, for maximum life. However, the assemblies can be mounted with the valve stem vertical or horizontal in relation to the pipe. The actuators should never be mounted underneath the valve, as condensation can build up and result in a failure of the actuators. Do not reverse flow direction.

G340, 3-Way, Globe Valve, Bronze Trim, Mixing





Α	В	С	D	Е	F
10.5" [267]	5.37" [137]	10.24"	9" [229]	1.5" [38]	5" [127]
		[260]			

AFX24-MFT-X1

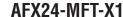
Modulating, Spring Return, 24 V, Multi-Function Technology®





Power Supply 24 VAC±20%, 50/60Hz, 24 VDC+20%/-10% Power Consumption Running 7.5 W Power Consumption Holding 3 W Transformer Sizing 10 VA (class 2 power source) Electrical Connection 18 GA applicance rated cable with 1/2" conduit connector protected NEMA 2 (IP54) 3 ft [1m] 10 ft [3m] and 16 ft [5m] Overload Protection electronic throughout 0° to 95° rotation Operating Range 2 to 10 VDC, 4 to 20 mA (default), variable (VDC, PWM, floating point, on/off) Position Feedback 2 to 10 VDC, 0.5 mA max, VDC variable Angle of Rotation 95° (adjustable with mechanical end stop, 35° to 95°) Direction of Rotation (Motor) reversible with built-in switch Direction of Rotation (Fail-Safe) reversible with CW/CCW mounting Position Indication visual indicator, 0° to 95° (0° is full spring return position) Manual Override 5 mm hex crank (3/16" Allen), supplied Running Time (Motor) 150 sec (default), variable (70 to 220 sec) Running Time (Fail-Safe) <20 sec Override Control min. position = 0%, mid. Position = 50%, max. position = 100% (Default) Humidity max. 95% RH non-condensing Ambient Temperature Range -22°F to 122°F [-30°C to 50°C] Storage Temperature Range -40°F to 176°F [-40°C to 80°C] Housing Material zinc coated metal and plastic casing Agency Listings† cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC Sound power level <40 dB (A) Noise Level (Fail-Safe) <62 dB (A) Servicing maintenance free Quality Standard ISO 9001 Weight		
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Ambient Temperature Range -22°F to 122°F [-30°C to 50°C] Storage Temperature Range -40°F to 176°F [-40°C to 80°C] Housing NEMA 2, IP54, UL enclosure type 2 Housing Material zinc coated metal and plastic casing Agency Listings† cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC Sound power level <40 dB (A) Noise Level (Fail-Safe) <62 dB (A) Servicing maintenance free Quality Standard ISO 9001	Override Control	The state of the s
Storage Temperature Range -40°F to 176°F [-40°C to 80°C] Housing NEMA 2, IP54, UL enclosure type 2 Housing Material zinc coated metal and plastic casing Agency Listings† cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC Sound power level <40 dB (A) Noise Level (Fail-Safe) <62 dB (A) Servicing maintenance free Quality Standard ISO 9001	Humidity	max. 95% RH non-condensing
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E60730-1:02, CE acc. to 2004/108/EC Sound power level <40 dB (A) Noise Level (Fail-Safe) <62 dB (A) Servicing maintenance free Quality Standard ISO 9001	Housing Material	zinc coated metal and plastic casing
Noise Level (Fail-Safe) <62 dB (A) Servicing maintenance free Quality Standard ISO 9001	Agency Listings†	
Servicing maintenance free Quality Standard ISO 9001	Sound power level	<40 dB (A)
Quality Standard ISO 9001	Noise Level (Fail-Safe)	<62 dB (A)
	Servicing	maintenance free
Weight 4.6 lb [2.1 kg]	Quality Standard	ISO 9001
	Weight	4.6 lb [2.1 kg]

^{*}Variable when configured with MFT options. †Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3



Modulating, Spring Return, 24 V, Multi-Function Technology®



Wiring Diagrams



WARNING! LIVE ELECTRICAL COMPONENTS!

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.



Meets cULus requirements without the need of an electrical ground connection.



Actuators with appliance cables are numbered.



Provide overload protection and disconnect as required.

Only connect common to negative (-) leg of control circuits.



Actuators may also be powered by 24 VDC.



A 500 Ω resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 VDC



Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 VAC line.



For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible.



IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).



Actuators may be controlled in parallel. Current draw and input impedance must be observed.



Master-Slave wiring required for piggy-back applications. Feedback from Master to conrol input(s) of Slave(s).

