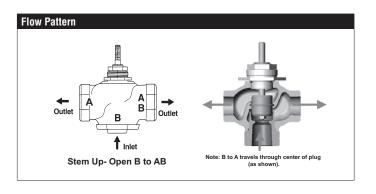
G350D, 3-Way, Globe Valve, Bronze Trim, Diverting







Technical data	
Service	chilled, hot water, up to 60% glycol
Flow Characteristic	linear
Controllable Flow Range	stem up - open B to AB
Size [mm]	2" [50]
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	500:1
Cv	40
Weight	8.4 lb [3.8 kg]
Servicing	Repack/Rebuild kits available

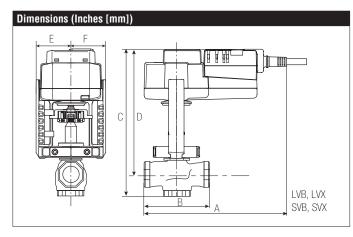


Application

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
G350D	SVB(X)	AFB(X)	SVKB(X)

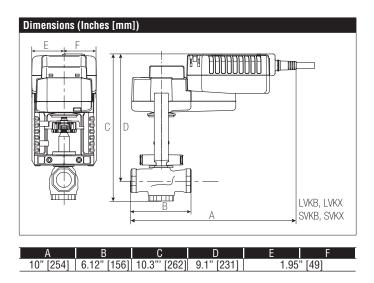


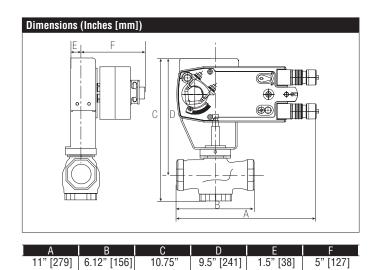
A	В	С	D	Е	F
9.3" [236]	6.12" [156]	10.5" [267]	9.1" [231]	1.95	" [49]

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.

G350D, 3-Way, Globe Valve, Bronze Trim, Diverting





[273]

AFX24-MFT-X1

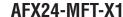
Modulating, Spring Return, 24 V, Multi-Function Technology®





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		
Power Consumption Running Power Consumption Holding 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 Running Time (Motor) 5 mm hex crank (3/16" Allen), supplied Running Time (Fail-Safe) Verride 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 MEMA 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 Verein Application Verein Application Running Time (Fail-Safe) Verein Application Running Material Agency Listings† cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC Sound power level Verein Application Running Maintenance free Quality Standard Round Verein Application Running Maintenance free Running Maintenance free Running Maintenance free	Technical Data	
Power Consumption Holding 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 S mm hex crank (3/16" Allen), supplied Running Time (Motor) 150 sec (default), variable (70 to 220 sec) Running Time (Fail-Safe) 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 Agency Listings† cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC Sound power level Value Control Roise Level (Fail-Safe) Value Coloud/108/EC Sound power level Value Roise Agency Listings Maintenance free Quality Standard ISO 9001	117	, ,
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		*** **
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) Direction of Rotation (Fail-Safe) Position Indication wisual indicator, 0° to 95° (0° is full spring return position) Manual Override Running Time (Motor) 150 sec (default), variable (70 to 220 sec) Running Time (Fail-Safe) 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) Gel 20 dB (A) Servicing maintenance free Quality Standard	1 0	3 W
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 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	Transformer Sizing	10 VA (class 2 power source)
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) Direction of Rotation (Fail-Safe) Position Indication Manual Override Running Time (Motor) Running Time (Fail-Safe) Override Control Humidity Humidity Ambient Temperature Range Position Paid Range Agency Listings† CULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC Sound power level Quality Standard Position Feedback 2 to 10 VDC, 20 mA (default), variable (VDC, PWM, floating point, on/off) 2 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 4 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 4 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 4 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 4 (default), variable (WCCW mounting 2 to 10 VDC, 0.5 mA max, VDC variable 4 (default), variable (WCCW mounting 2 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 2 to 10 VDC, 0.5 mA max, VDC variable 4 (default), variable (WCW variable 4 (default), variable (WCW variable 4 (default), v	Electrical Connection	conduit connector protected NEMA 2 (IP54) 3 ft [1m] 10 ft [3m] and 16 ft [5m]
(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 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	Overload Protection	electronic throughout 0° to 95° rotation
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 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		(VDC, PWM, floating point, on/off)
Direction of Rotation (Motor) Direction of Rotation (Fail-Safe) Position Indication Manual Override Running Time (Motor) Position Equipment (Fail-Safe) Override Control Humidity Ambient Temperature Range For Temperature Range Housing Material Agency Listings† Culus acc. to UL60730-114. Direction of Rotation (Motor) reversible with CW/CCW mounting reversible with Dwilt CW/CCW mounting reversible with CW/CCW mounting reversible with CW/CCW mounting reversible with CW/CCW mounting visual indicator, 0° to 95° (0° is full spring reversible with CW/CCW mounting reversible with CW/CCW and Sull spring reversible with CW/CCW to 95° (0° is full spring return position 150 sec (default), variable (70 to 220 sec) Running Time (Fail Sple) 420 sec Override Control min. position = 0% , mid. Position = 50% , max. position = 10% (pf ault) reversible with CW/CX Allen), variable (70 to 220 sec) Running Time (Fail Sple) 420 sec Override Control min. position = 0% , mid. Position = 50% , max. position = 10% (pf ault) reversible with CW/CX Allen), variable (70 to 220 sec) reversible with CW/CX Allen), variable (70 to 220 sec) reversible with CW/CX Allen), variable (70 to 220 sec) reversible var	Position Feedback	
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 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	Ü	
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 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	Direction of Rotation (Motor)	reversible with built-in switch
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 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	Direction of Rotation (Fail-Safe)	reversible with CW/CCW mounting
Manual Override Running Time (Motor) Running Time (Fail-Safe) Override Control Humidity Ambient Temperature Range Storage Temperature Range Housing Material Agency Listings† Could Default Sound power level Anoise Level (Fail-Safe) 5 mm hex crank (3/16" Allen), supplied 150 sec (default), variable (70 to 220 sec) min. position = 0%, mid. Position = 50%, max. position = 100% (Default) max. 95% RH non-condensing -22°F to 122°F [-30°C to 50°C] Storage Temperature Range -40°F to 176°F [-40°C to 80°C] 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) Servicing maintenance free Quality Standard	Position Indication	
Running Time (Motor) Running Time (Fail-Safe) Override Control min. position = 0%, mid. Position = 50%, max. position = 100% (Default) Humidity Ambient Temperature Range Storage Temperature Range Housing Housing Agency Listings† Culus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC Sound power level Quality Standard 150 sec (default), variable (70 to 220 sec) Agency Agency Listings† Culus acc. to 100% (Default) max. 95% RH non-condensing Agency C to 50°C] For 122°F [-30°C to 50°C] For 122°F [-40°C to 80°C] NEMA 2, IP54, UL enclosure type 2 Culus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC Sound power level Agency Listings† Servicing Maintenance free Quality Standard	Manual Override	
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 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) Servicing maintenance free Quality Standard ISO 9001	Running Time (Motor)	
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 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	Running Time (Fail-Safe)	<20 sec
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 second secon
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
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	Ambient Temperature Range	
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	Storage Temperature Range	
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	Housing	NEMA 2, IP54, UL enclosure type 2
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).

