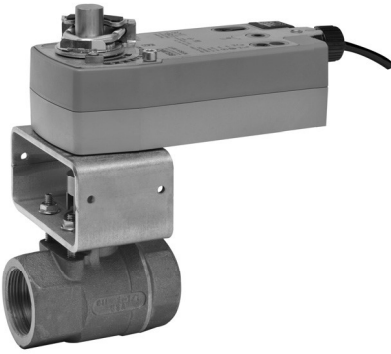




MFT



Models

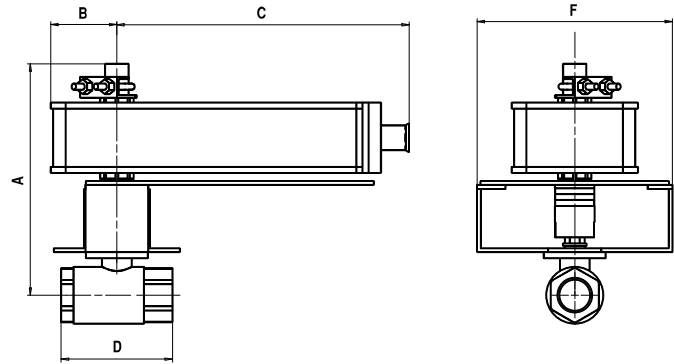
NFX24-MFT-X1
NFX24-MFT-S-X1

Technical Data	
Control	MFT
Control signal	2 to 10 VDC, (4 to 20 mA with 500 Ω resistor)
Power supply	24 VAC $\pm$ 20% 50/60 Hz 24 VDC $\pm$ 20% / -10%
Power consumption	running 6.5 W holding 3 W
Transformer sizing	9 VA, (class 2 power source)
Electrical connection	1/2" conduit connector 3 ft. [1m], 18 GA appliance cable
Overload protection	electronic throughout 0 to 95° rotation
Input impedance	100 k Ω for 2 to 10 VDC (0.1 mA) 500 Ω for 4 to 20 mA 1500 Ω for on/off and floating point
Feedback output	2 to 10 VDC, 0.5 mA max
Angle of rotation	95°
Direction of rotation	spring reversible with CW/CCW mounting motor reversible with built-in switch
Position indication	visual indicator, 0° to 95°
Running time	motor 150 seconds (default), variable (40 to 220 seconds) spring <20 sec @ -4°F to +122°F [-20°C to +50°C]; <60 sec @ -22°F [-30°F]
Ambient temperature	-22°F to +122°F [-30°C to +50°C]
Housing	NEMA 2 / IP54, Enclosure Type 2
Agency listings	cULus acc. to UL60730-1A/ -2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC & 2006/95/EC
Noise level	<40 dB(A) motor @ 150 seconds, run time dependent <62 dB(A) spring return

NFX24-MFT-S-X1

Auxiliary switch	2 x SPDT, 3A (0.5A) @ 250 VAC, UL Approved one set at +10°, one adjustable 10° to 90°
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Dimensions with 2-Way Valve



Valve Body	COP	Valve Nominal Size		Dimensions (Inches)				
		Inches	DN [mm]	A	B	C	D	F
B219VS	400	3/4	20	7.00	1.25	6.77	3.37	6.25
B220VS	400	3/4	20	7.00	1.25	6.77	3.37	6.25
B219VSS	1000	3/4	20	7.00	1.25	6.77	3.37	6.25

Wiring Diagrams

INSTALLATION NOTES

- 2 **CAUTION Equipment damage!**
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 IN4004 or IN4007 diode (IN4007 supplied, Belimo part number 40155).
- 5 Triac A and B can also be contact closures.
- 6 Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 VAC line.
- 7 Position feedback cannot be used with Triac sink controller. The actuators internal common reference is not compatible.

APPLICATION NOTES

- ◆ The ZG-R01 500 Ω resistor converts the 4 to 20 mA control signal to 2 to 10 VDC, up to 2 actuators may be connected in parallel.
- ◆ Meets cULus or UL and CSA requirements without the need of an electrical ground connection.

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.

