B2100VB-024 Technical Data Sheet

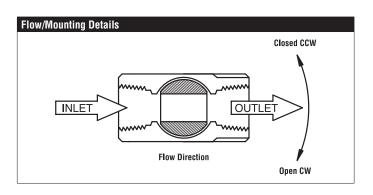
Hardened Chrome Plated Carbon Steel Body, Stainless Steel Ball and Stem







Technical Data	
Fluid	chilled or hot water, up to 60% glycol,
	steam
Flow characteristic	equal percentage
Controllable flow range	75°
Valve Size [mm]	1" [25]
Pipe connection	NPT female ends
Housing	WCC grade carbon steel
Ball	stainless steel
Stem	stainless steel
Stem seal	PTFE V-ring
Seat	PTFE
Body Pressure Rating	ANSI Class 300
ANSI Class	300
Maximum Inlet Pressure (Steam)	200 psi
Max Differential Pressure (Steam)	100 psi
Maximum differential pressure	150 psi
(water)	
Close-off pressure ∆ps	150 psi
Close-Off Pressure (Steam)	200 psi
Rangeability Sv	300:1
Cv	24
Weight	9.02 lb [4.1 kg]
Fluid Temp Range (water)	-22380°F [-30193°C]
Fluid Temp Range (steam)	-22380°F [-30193°C]
Leakage rate	ANSI Class IV



Application

Water-side control of air handling apparatus in ventilation and air-conditioning

Water/Steam control in heating system.

300:1 rangeability.

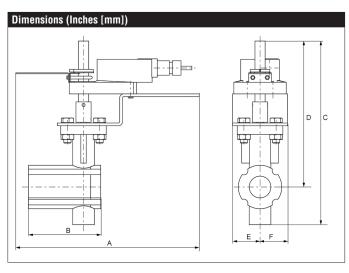
The dimensions and drilling of end flanges conform to the American cast iron flange standard, Class 150 (ANSI B16.1).

Product Features

Fast quarter turn open or closed operation, stainless-steel ball and stem, positive isolation, two-piece body construction

Suitable Actuators

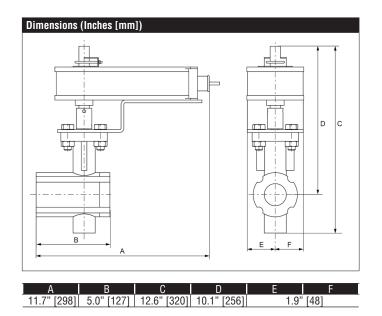
Oultable Actuators						
	Non-Spring	Spring	Electronic fail-safe			
B2100VB-024	SY1, AMB(X),	SY1, AMB(X), NF				
	PRB(X)					

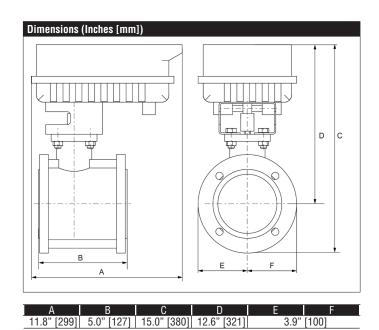


А	В	C	D	Е	F
11.8" [299]	5.0" [127]	12.6" [320]	10.1" [256]	1.8" [46]	

B2100VB-024 Technical Data Sheet

Hardened Chrome Plated Carbon Steel Body, Stainless Steel Ball and Stem





AMX24-MFT-X1 Technical Data Sheet

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







24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%	
3.5 W	
1.3 W	
6 VA	
18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector (10 ft [3 m] and 15 ft [5 m] available)	
electronic throughout 095° rotation	
210 V (default), 420 mA w/ ZG-R01 (500 Ω , 1/4 W resistor), variable (VDC, PWM, on/ off, floating point)	
Start point 0.530 V	
End point 2.532 V 100 kΩ for 210 V (0.1 mA), 500 Ω for	
420 mA, 1500 Ω for PWM, On/Off and Floating point	
210 V, Max. 0.5 mA, VDC variable	
Max. 95°, adjustable with mechanical stop	
selectable with switch 0/1	
Mechanically, integrated, two-section	
external push button	
default 150 s, variable 90350 s	
max. 95% r.H., non-condensing	
-22150°F [-3065°C]	
-40176°F [-4080°C]	
IP54, NEMA 2, UL Enclosure Type 2	
UL94-5VA	
cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU	
45 dB(A)	
maintenance-free	
ISO 9001	

 \dagger Rated Impulse Voltage 800V, Type action 1, Control Pollution Degree 3.



AMX24-MFT-X1 Technical Data Sheet

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

Wiring Diagrams



X INSTALLATION NOTES



Actuators with appliance cables are numbered.



Provide overload protection and disconnect as required.



Actuators may also be powered by 24 VDC.



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



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.



Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.



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

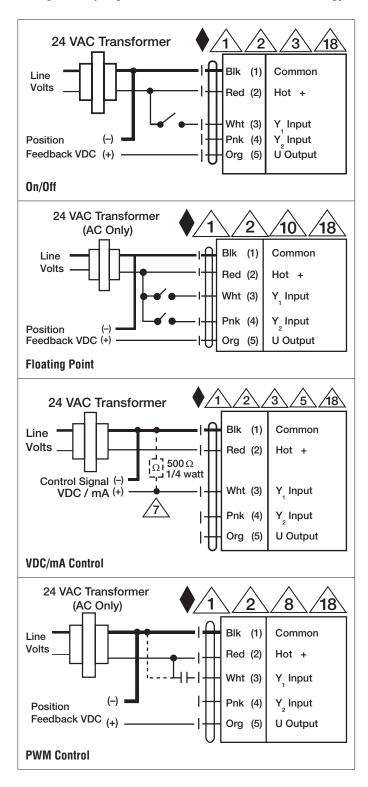


Meets cULus requirements without the need of an electrical ground connection.



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.



AMX24-MFT-X1 Technical Data Sheet





