B2150VB-055, 1-1/2", V Ball Control Valve Hardened Chrome Plated Carbon Steel Body, Stainless Steel Ball and Stem

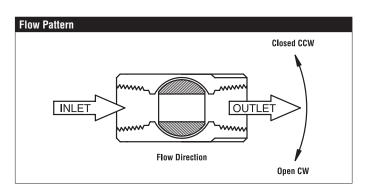








Technical Data	
Service	chilled or hot water, up to 60% glycol,
	steam
Flow Characteristic	equal percentage
Controllable Flow Range	75°
Size [mm]	1.5" [40]
End Fitting	NPT female ends (1"to 2"); ISO flange (3"to 6")
Body	WCC Grade Carbon steel
Ball	stainless steel
Stem	stainless steel
Stem Packing	spring loaded Teflon® V-ring
Ball Seat	Teflon®
Body Pressure Rating [psi]	ASME/ANSI Class 300
Max Inlet Pressure (Steam)	200 psi
Media Temperature Range (Water)	-22°F to 380°F [-30°C to 193°C]
Media Temperature Range (Steam)	-22°F to 380°F [-30°C to 193°C]
Maximum Differential Pressure (Steam)	100 psi
Max Differential Pressure (Water)	150 psi
Maximum Differential Pressure	100 psi
Steam (Rotary Actuator)	150
Close-Off Pressure	150 psi
Close-Off Pressure (Steam)	200 psi
Rangeability	300:1
Cv	55
Weight	14.6 lb [6.6 kg]
Leakage	ANSI Class IV



Product Features

Fast quarter turn open or closed operation, Stainless steel ball and stem, Positive shut-off, Two piece body construction

Application

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

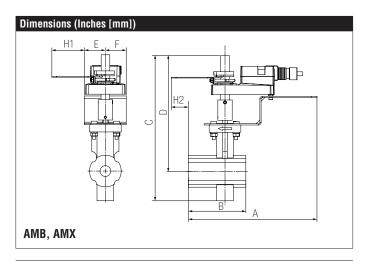
Water/Steam control in heating system.

300:1 rangeability.

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

Suitable Actuators

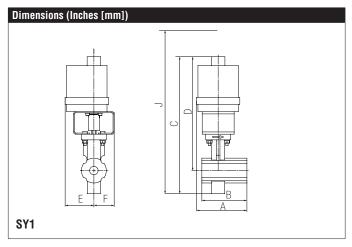
Outlabio fiolacioio					
	Non-Spring	Spring			
B2150VB-055	SY1, SY2, AMB(X)	NFB(X)			



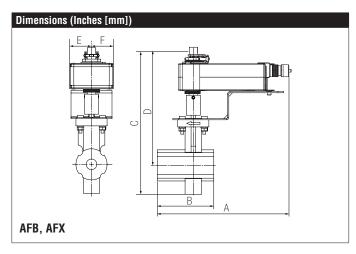
Α	В	C	D	E	F	l H1	H2
12.81"	6.5"	13.47"	10.47"	1.81	" [46]	1.18"	0.5" [15]
[325]	[165]	[342]	[266]			[30]	



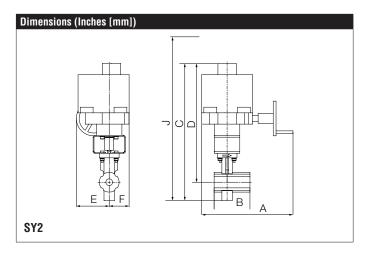
B2150VB-055, 1-1/2", V Ball Control Valve Hardened Chrome Plated Carbon Steel Body, Stainless Steel Ball and Stem



Α	В	С	D	Е	F	J
6.72"	6.5" [165]	15.63"	13.03"	2.4"	[61]	21.13"
[171]		[397]	[331]			[536]



Α	В	С	D	E	F
12.74"	6.5" [165]	13.47"	10.47"	1.95	" [49]
[324]		[342]	[266]		

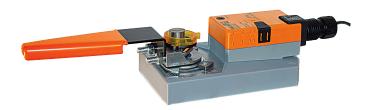


Α	В	С	D	E	F	J
12.6"	6.5" [165]	19.38"	16.97"	4.48"	3.56" [90]	28.48"
[320]	' '	[492.3]	[431]	[114]		[723]

AMX24-MFT-X1

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



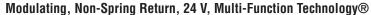




Technical Data	
Power Supply	24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%
Power Consumption Running	3.5 W
Power Consumption Holding	1.3 W
Transformer Sizing	6 VA
Electrical Connection	
Electrical Connection	3 ft, 18 GA plenum rated cable with 1/2" conduit connector (10 ft [3m] and 15 ft [5m]
	avail.)
Overload Protection	electronic throughout 0° to 95° rotation
Operating Range Y	2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 Ω,
	1/4 W resistor)
Input Impedance	100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for 4
	to 20 mA, 1500 Ω for PWM, floating point and
First O. I. III	On/Off
Feedback Output U	2 to 10 VDC, 0.5 mA max, VDC variable
Angle of Rotation	max. 95°, adjustable with mechanical stop
Direction of Rotation (Motor)	reversible with built-in switch
Position Indication	handle
Manual Override	external push button
Running Time (Motor)	150 sec (default), variable (90 to 350 sec)
Humidity	5 to 95% RH non condensing (EN 60730-1)
Ambient Temperature Range	-22°F to 150°F [-30°C to 65°C]
Storage Temperature Range	-40°F to 176°F [-40°C to 80°C]
Housing	NEMA 2, IP54, UL enclosure type 2
Housing Material	UL94-5VA
Agency Listings†	cULus acc. to UL60730-1A/-2-14, CAN/CSA
	E60730-1:02, CE acc. to 2004/108/EC and
N. C. L. L. Marte	2006/95/EC
Noise Level (Motor)	<45 dB (A)
Servicing	maintenance free
Quality Standard	ISO 9001

 $\ensuremath{\uparrow}\xspace$ Rated Impulse Voltage 800V, Type action 1, Control Pollution Degree 3.







Wiring Diagrams



🔀 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).

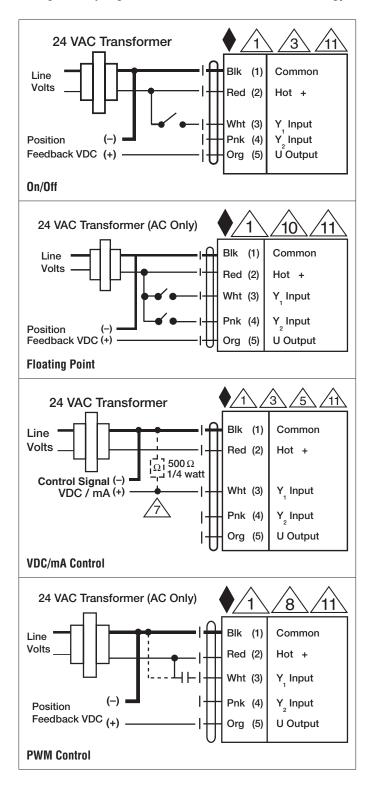


Meets cULus requirements without the need of an electrical ground connection.



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





