F750VIC Technical Data Sheet

Pressure Enhanced Rubber Seat

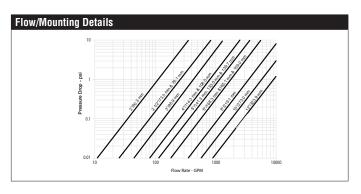






Technical Data	
Fluid	chilled or hot water, up to 60% glycol
Flow characteristic	modified linear
Controllable flow range	90° rotation
Valve Size [mm]	2" [50]
Pipe connection	grooved ANSI/AWWA (c606)
Housing	Ductile cast iron ASTM A536
Body finish	black alkyd enamel
Stem	416 stainless steel
Spindle bearing	fiberglass with TFE lining
Seat	EPDM
Disc	electroless nickel coated ductile iron
Body Pressure Rating	ANSI Class Grooved AWWA, 300 psi
ANSI Class	Grooved AWWA
Rangeability Sv	100:1
Maximum Velocity	20 FPS
Cv	115
Weight	15.4 lb [7.0 kg]
Fluid Temp Range (water)	-22250°F [-30120°C]
Leakage rate	0%
Servicing	maintenance-free

Close-off pressures are variable and actuator dependent, consult Select Pro and/or Price Guide for specifics.



Application

These valves are designed to meet the needs of HVAC and commercial applications requiring bubble tight shut-off for liquids. Typical applications include chiller isolation, cooling tower isolation, change-over systems, large air handler coil control, bypass and process control applications. The large Cv values provide for an economical control valve solution for larger flow applications. Designed for use in Victaulic® piping systems.

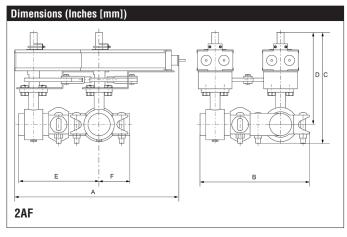
Jobsite Note

Valve assembly should be stored in a weather protected area prior to installation. Reference the butterfly valve installation instruction for additional information

Flow/Cv					
Cv 30°	Cv 40°	Cv 50°	Cv 60°	Cv 70°	Cv 90°
7	14	23	36	60	115

Suitable	Actuators
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	Non-Spring	Spring
F750VIC	GMB(X)	AF, (2*AFB(X))

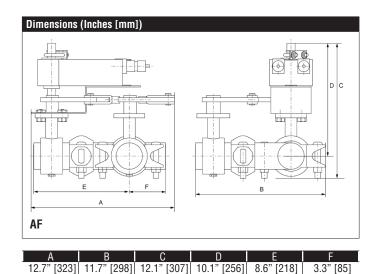


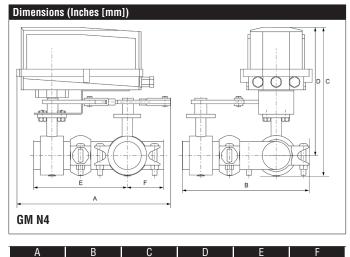
Α	В	С	D	Е	F
17.5" [444]	11.7" [298]	11.6" [294]	9.8" [248]	8.6" [218]	3.3" [85]

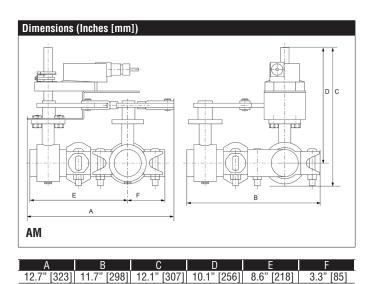


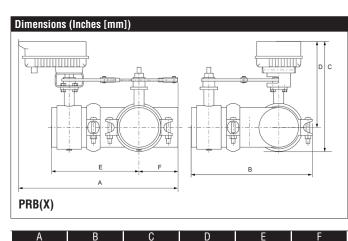
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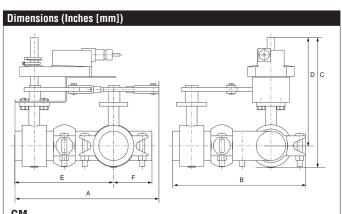






14.3" [364] | 11.7" [298] | 13.2" [335] | 11.4" [290] | 8.6" [218] | 3.3" [85]

14.7" [373] | 11.7" [298] | 14.5" [368] | 12.7" [323] | 8.6" [218]



GM D

12.7" [323] | 11.7" [298] | 12.1" [307] | 10.1" [256] | 8.6" [218] | 3.3" [85]

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 k Ω 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 2004/108/EC and 2006/95/EC
45 dB(A)
maintenance-free
ISO 9001
4.9 lb [2.0 kg]

 \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).

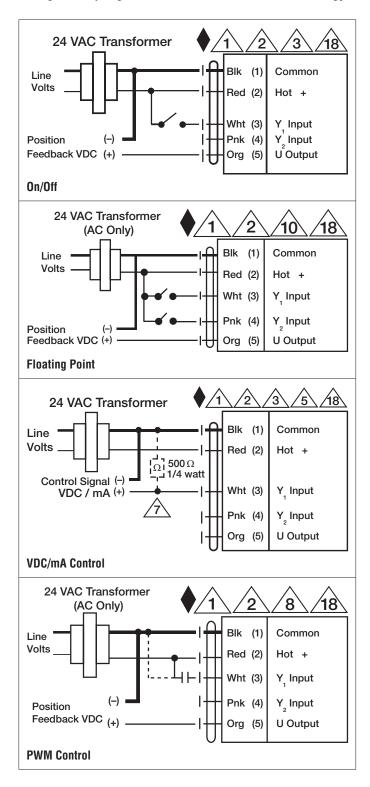


Meets cULus requirements without the need of an electrical ground connection.



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.



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



