F650VIC Technical Data Sheet Pressure Enhanced Rubber Seat

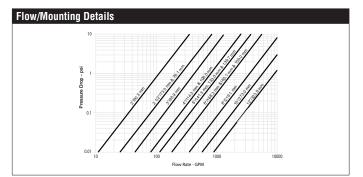






Technical Data			
Fluid	chilled, hot water, up to 60% glycol		
Flow characteristic	modified equal percentage		
Controllable flow range	90° rotation		
Valve Size [mm]	2" [50]		
Pipe connection	grooved ANSI/AWWA (c606)		
Housing	Ductile cast iron ASTM A536		
Body finish	black alkyd enamel		
Stem	416 stainless 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	3.3 lb [1.5 kg]		
Fluid Temp Range (water)	-22250°F [-30120°C]		
Leakage rate	0%		
Maintenance	maintenance-free		

Close-off pressures are variable and actuator dependent, consult Select $\ensuremath{\mathsf{Pro}}$ and/or $\ensuremath{\mathsf{Price}}$ Guide for specifics.



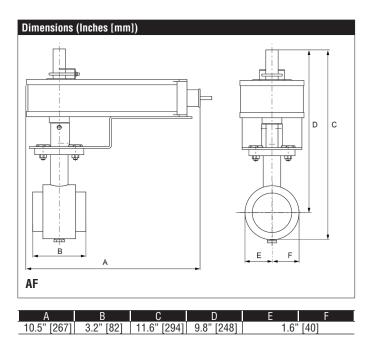
Application

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						
	Non-Spring			Spring		
F650VIC	AMB(X), GRB(X)			AF		

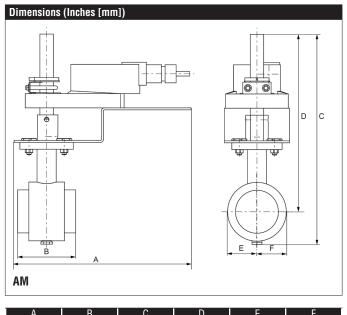


Safety Notes

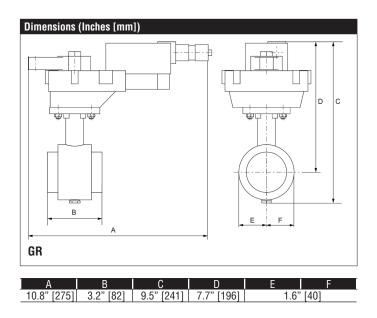
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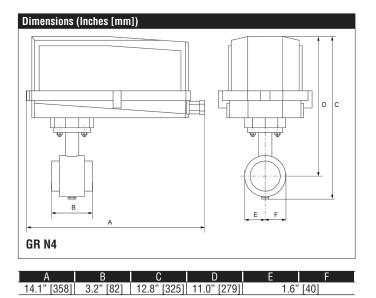


A	В	C	D	
9.8" [249]	3.2" [82]	11.6" [294]	9.8" [248]	1.6" [40]



F650VIC Technical Data Sheet

Pressure Enhanced Rubber Seat





AMB24-3-X1 Technical Data Sheet On/Off, Floating Point, Non-Spring Return, 24 V







Technical Data	
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
Power consumption in operation	2.5 W
Power consumption in rest	0.5 W
position	
Transformer sizing	5.5 VA (class 2 power source)
Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2"
	conduit connector, degree of protection NEMA 2 / IP54
Overload Protection	electronic thoughout 090° rotation
Input Impedance	600 Ω
Angle of rotation	Max. 95°, adjustable with mechanical stop
Torque motor	180 in-lb [20 Nm]
Direction of rotation motor	reversible with built-in switch
Position indication	Mechanically, 3065 mm stroke
Manual override	external push button
Running Time (Motor)	90 s, constant, independent of load
Ambient humidity	max. 95% r.H., non-condensing
Ambient temperature	-22150°F [-3065°C]
Storage temperature	-40176°F [-4080°C]
Degree of Protection	IP54, NEMA 2
Housing material	UL94-5VA
Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA
	E60730-1:02, CE acc. to 2004/108/EC and
	2006/95/EC
Noise level, motor	45 dB(A)
Maintenance	maintenance-free
Quality Standard	ISO 9001
Weight	2.0 lb [0.90 kg]

†Rated Impulse Voltage 800V, Type action 1.B, Control Pollution Degree 3.

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AMB24-3-X1 Technical Data Sheet

On/Off, Floating Point, Non-Spring Return, 24 V

Wiring Diagrams

🔀 INSTALLATION NOTES

Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.

Actuators may be connected in parallel. Power consumption and input impedance must be observed.



Actuators may also be powered by 24 VDC.

Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.

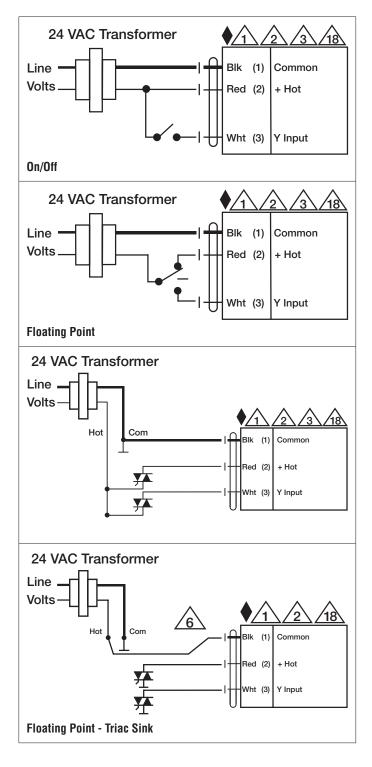


Actuators with plenum cable do not have numbers; use color codes instead.

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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