# **F650VIC Technical Data Sheet**

### **Pressure Enhanced Rubber Seat**

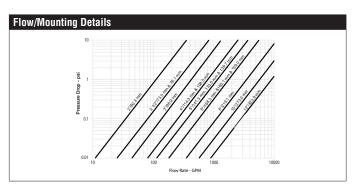






Technical Data	
Fluid	chilled, hot water, up to 60% glycol
Flow characteristic	modified equal percentage
Controllable flow range	90° rotation
Valve Size [mm]	2" [50]
Pipe connection	grooved ANSI/AWWA (c606)
Housing	Ductile cast iron ASTM A536
Body finish	black alkyd enamel
Stem	416 stainless steel
Spindle 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 Pro and/or Price Guide for specifics.



#### **Application**

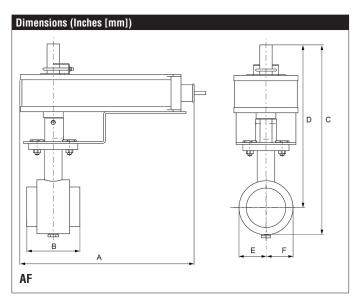
These valves are designed to meet the needs of HVAC and commercial applications requiring bubble tight shut-off for liquids. Typical applications include chiller isolation, cooling tower isolation, change-over systems, large air handler coil control, bypass and process control applications. The large 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				
	Non-Spring	Spring			
F650\/IC	AMR(Y) GRR(Y)	ΛF			

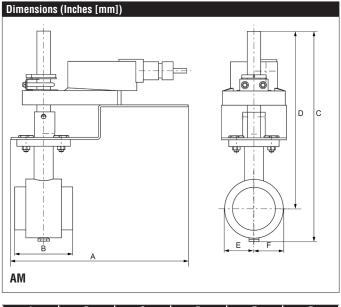


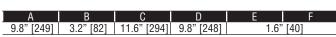
A	В	C	D	E	F
10.5" [267]	3.2" [82]	11.6" [294]	9.8" [248]	1.6"	[40]

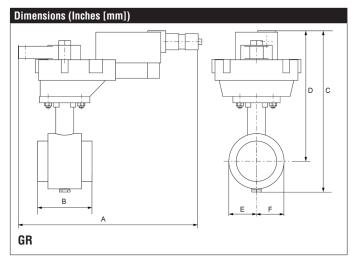
### Safety Notes

WARNING: For Belimo products sold in California: these products do or may contain chemicals which are known to the State of California to cause cancer and or birth defects or other reproductive harms. For more information see www.p65warnings.ca.gov.







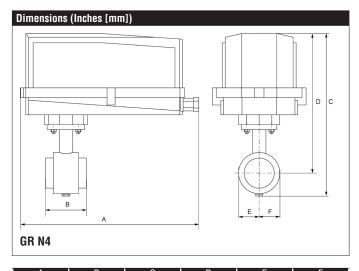


А	В	С	D	E	F
10.8" [275]	3.2" [82]	9.5" [241]	7.7" [196]	1.6"	[40]

# **F650VIC Technical Data Sheet**

### **Pressure Enhanced Rubber Seat**





A	В	C	ט	Ė	F
14.1" [358]	3.2" [82]	12.8" [325]	11.0" [279]	1.6"	[40]

## **AFBUP-X1 Technical Data Sheet**

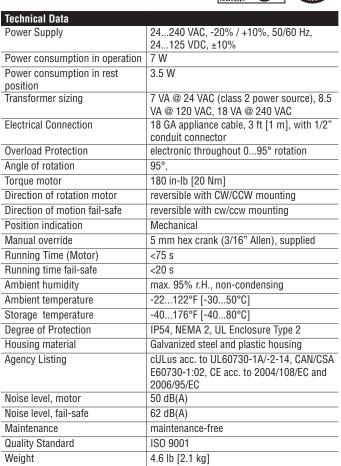
On/Off, Spring Return, AC 24...240 V











†Rated Impulse Voltage 4kV, Type of action 1.AA, Control Pollution Degree 3.

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## **AFBUP-X1 Technical Data Sheet**

On/Off, Spring Return, AC 24...240 V

### Wiring Diagrams



### 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.



Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.



Actuators with appliance cables are numbered.



Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.



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



Actuators may be powered in parallel. Power consumption must be

Provide overload protection and disconnect as required.



observed.

Parallel wiring required for piggy-back applications.

