

# F750VIC Technical Data Sheet

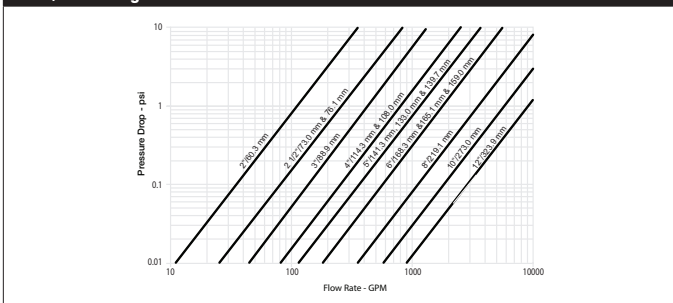
## Pressure Enhanced Rubber Seat



| 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) | -22...250°F [-30...120°C]              |
| Leakage rate             | 0%                                     |
| Servicing                | maintenance-free                       |

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

### Flow/Mounting Details



### 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

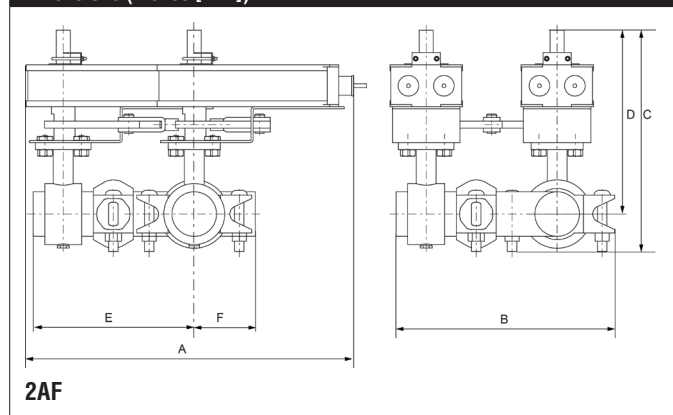
Valve assembly should be stored in a weather protected area prior to installation. Reference the butterfly valve installation instruction for additional information.

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

### Suitable Actuators

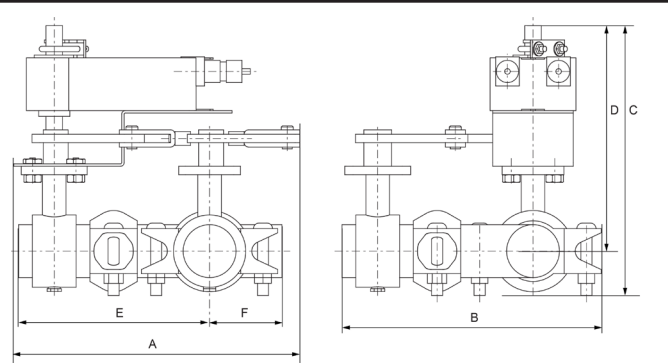
|         | Non-Spring | Spring         |
|---------|------------|----------------|
| F750VIC | GMB(X)     | AF, (2*AFB(X)) |

### Dimensions (Inches [mm])



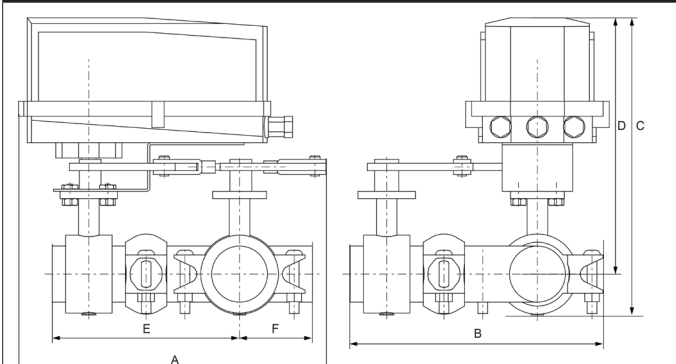
| A           | B           | C           | D          | E          | F         |
|-------------|-------------|-------------|------------|------------|-----------|
| 17.5" [444] | 11.7" [298] | 11.6" [294] | 9.8" [248] | 8.6" [218] | 3.3" [85] |

Dimensions (Inches [mm])



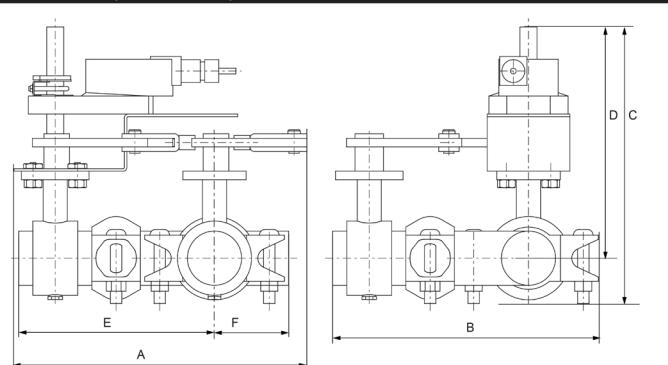
| A           | B           | C           | D           | E          | F         |
|-------------|-------------|-------------|-------------|------------|-----------|
| 12.7" [323] | 11.7" [298] | 12.1" [307] | 10.1" [256] | 8.6" [218] | 3.3" [85] |

Dimensions (Inches [mm])



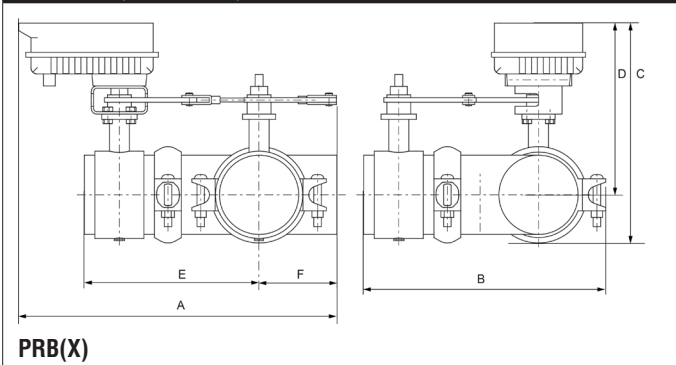
| A           | B           | C           | D           | E          | F         |
|-------------|-------------|-------------|-------------|------------|-----------|
| 14.7" [373] | 11.7" [298] | 14.5" [368] | 12.7" [323] | 8.6" [218] | 3.3" [85] |

Dimensions (Inches [mm])



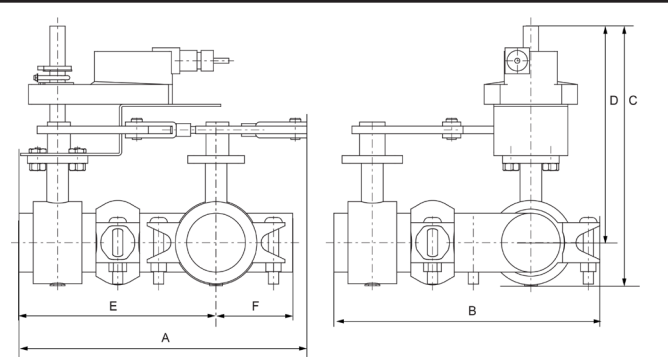
| A           | B           | C           | D           | E          | F         |
|-------------|-------------|-------------|-------------|------------|-----------|
| 12.7" [323] | 11.7" [298] | 12.1" [307] | 10.1" [256] | 8.6" [218] | 3.3" [85] |

Dimensions (Inches [mm])



| A           | B           | C           | D           | E          | F         |
|-------------|-------------|-------------|-------------|------------|-----------|
| 14.3" [364] | 11.7" [298] | 13.2" [335] | 11.4" [290] | 8.6" [218] | 3.3" [85] |

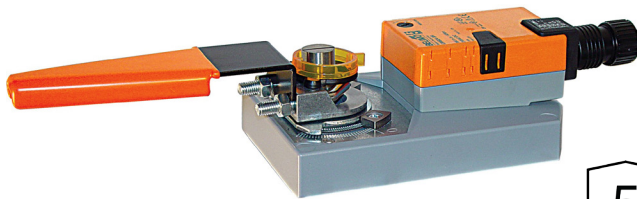
Dimensions (Inches [mm])



| A           | B           | C           | D           | E          | F         |
|-------------|-------------|-------------|-------------|------------|-----------|
| 12.7" [323] | 11.7" [298] | 12.1" [307] | 10.1" [256] | 8.6" [218] | 3.3" [85] |

# GMB24-3-X1 Technical Data Sheet

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



5-year warranty



| Technical Data                     |                                                                                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------|
| Power Supply                       | 24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%                                                            |
| Power consumption in operation     | 4 W                                                                                             |
| Power consumption in rest position | 2 W                                                                                             |
| Transformer sizing                 | 6 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 throughout 0...95° rotation                                                          |
| Input Impedance                    | 600 Ω                                                                                           |
| Angle of rotation                  | Max. 95°, adjustable with mechanical stop                                                       |
| Torque motor                       | 360 in-lb [40 Nm]                                                                               |
| Direction of motion motor          | selectable with switch 0/1                                                                      |
| Position indication                | Mechanically, 30...65 mm stroke                                                                 |
| Manual override                    | external push button                                                                            |
| Running Time (Motor)               | 150 s, constant, independent of load                                                            |
| Ambient humidity                   | max. 95% r.H., non-condensing                                                                   |
| Ambient temperature                | -22...122°F [-30...50°C]                                                                        |
| Storage temperature                | -40...176°F [-40...80°C]                                                                        |
| Degree of Protection               | IP54, NEMA 2, UL Enclosure Type 2                                                               |
| 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)                                                                                        |
| Servicing                          | maintenance-free                                                                                |
| Quality Standard                   | ISO 9001                                                                                        |
| Weight                             | 4.0 lb [1.8 kg]                                                                                 |

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

## Wiring Diagrams

### ✂️ INSTALLATION NOTES

- (A) Actuators with appliance cables are numbered.
- 1 Provide overload protection and disconnect as required.
- 3 Actuators may also be powered by 24 VDC.
- 6 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.
- 11 Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.
- 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.

