

F765VIC Technical Data Sheet

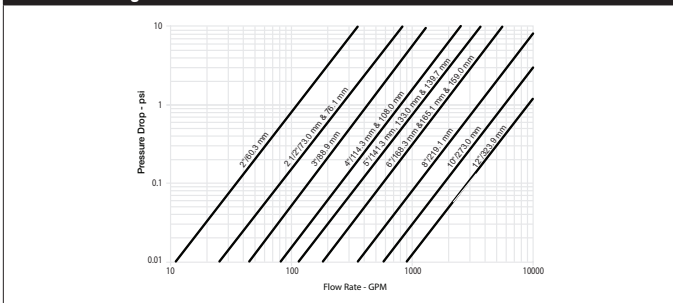
Pressure Enhanced Rubber Seat



Technical Data	
Fluid	chilled or hot water, up to 60% glycol
Flow characteristic	modified linear
Controllable flow range	90° rotation
Valve Size [mm]	2.5" [65]
Pipe connection	grooved ANSI/AWWA (c606)
Housing	Ductile cast iron ASTM A536
Body finish	black alkyl 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
Close-off pressure Δ ps	200 psi
Rangeability Sv	100:1
Maximum Velocity	20 FPS
Cv	260
Weight	18.7 lb [8.5 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

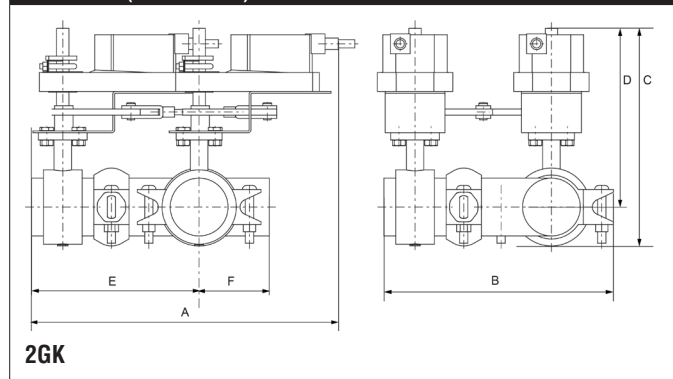
Valve assembly should be stored in a weather protected area prior to installation. Reference the butterfly valve installation instruction for additional information.

Flow/Cv					
Cv 30°	Cv 40°	Cv 50°	Cv 60°	Cv 70°	Cv 90°
16	30	50	80	140	260

Suitable Actuators

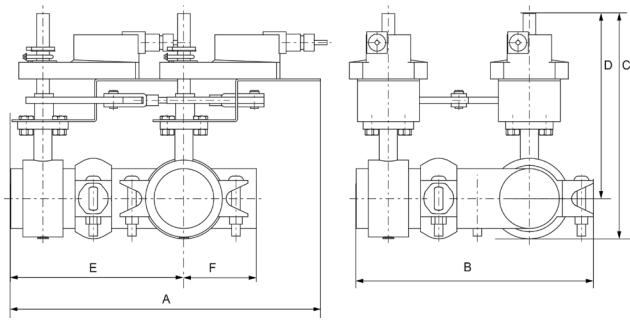
	Non-Spring	Spring	Electronic fail-safe
F765VIC	GMB(X), PRB(X)	(2*AFB(X))	GKRB(X), PKRB(X)

Dimensions (Inches [mm])



A	B	C	D	E	F
19.1" [485]	13.0" [330]	12.7" [322]	10.6" [269]	9.7" [246]	3.8" [97]

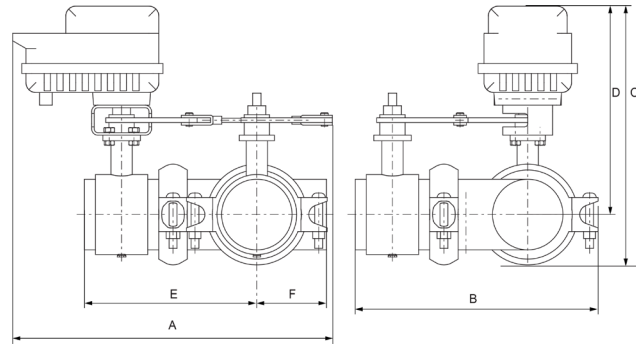
Dimensions (Inches [mm])



2GM

A	B	C	D	E	F
17.3" [440]	13.0" [330]	12.7" [322]	10.6" [269]	9.7" [246]	3.8" [97]

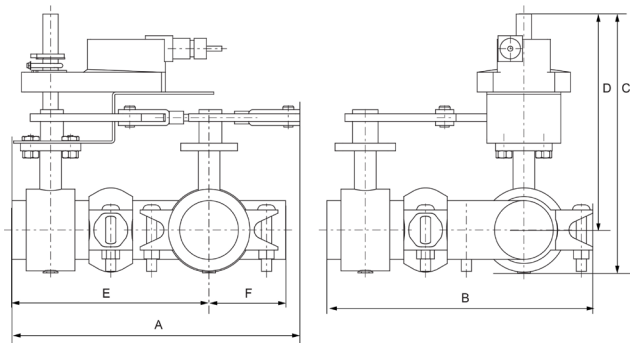
Dimensions (Inches [mm])



PK

A	B	C	D	E	F
15.5" [394]	13.0" [330]	16.5" [419]	14.4" [366]	9.7" [246]	3.8" [97]

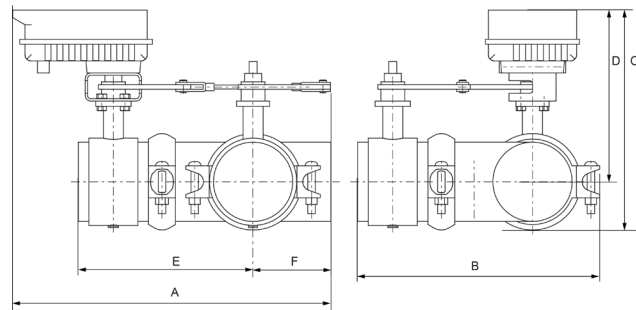
Dimensions (Inches [mm])



GM

A	B	C	D	E	F
14.1" [358]	13.0" [330]	12.7" [322]	10.6" [269]	9.7" [246]	3.8" [97]

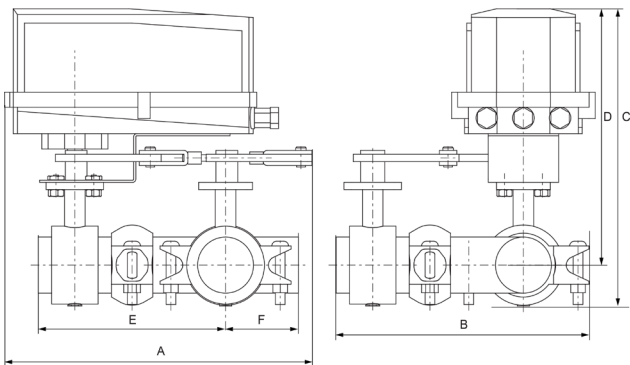
Dimensions (Inches [mm])



PRB(X)

A	B	C	D	E	F
15.5" [394]	13.0" [330]	14.0" [356]	11.9" [302]	9.7" [246]	3.8" [97]

Dimensions (Inches [mm])



GM N4

A	B	C	D	E	F
15.8" [401]	13.0" [330]	15.3" [389]	13.1" [334]	9.7" [246]	3.8" [97]

GMCX24-3-T-X1 N4 Technical Data Sheet

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



5-year warranty



Technical Data

Power Supply	24 VAC, $\pm 20\%$, 50/60 Hz, 24 VDC, $\pm 10\%$
Power consumption in operation	8 W
Power consumption in rest position	2.5 W
Transformer sizing	11 VA (class 2 power source)
Electrical Connection	Terminal blocks
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, 5...20 mm stroke
Manual override	under cover
Running Time (Motor)	35 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	IP66/67, NEMA 4X, UL Enclosure Type 4X
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	7.2 lb [4.5 kg]

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

Wiring Diagrams

✂️ INSTALLATION NOTES

- 1 Provide overload protection and disconnect as required.
- 3 Actuators may also be powered by 24 VDC.
- 10 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.
- 12 IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).
- 16 Actuators are provided with a numbered screw terminal strip instead of a cable.
- 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.

