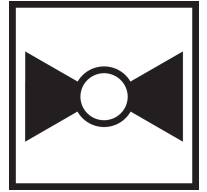




5-year warranty

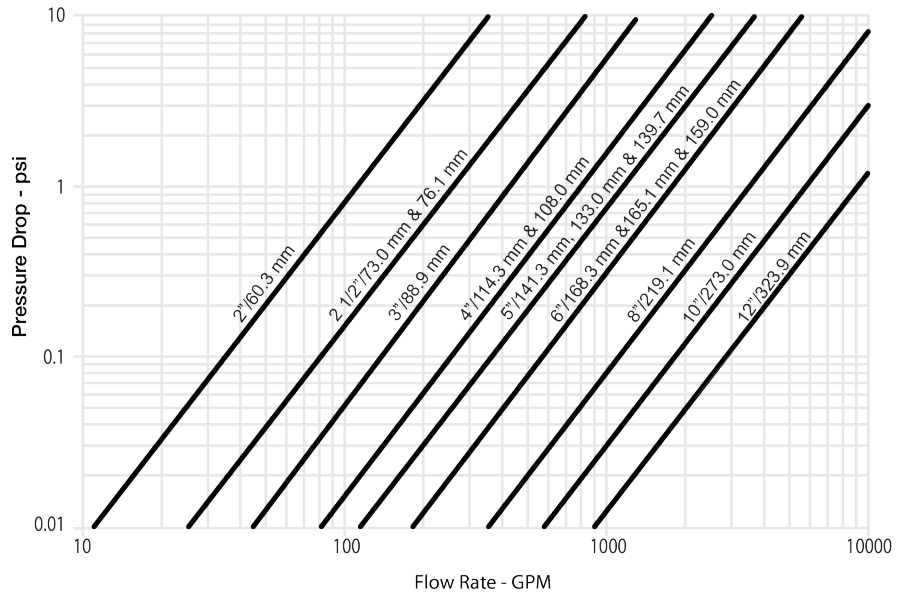


Technical data

Functional data	Valve Size	2.5" [65]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	-22...250°F [-30...120°C]
	Body Pressure Rating	ANSI Class Grooved AWWA, 300 psi
	Flow characteristic	modified equal percentage
	Servicing	maintenance-free
	Rangeability Sv	100:1
	Flow Pattern	2-way
	Leakage rate	0%
	Controllable flow range	90° rotation
	Cv	260
	ANSI Class	Grooved AWWA
	Body pressure rating note	300 psi
	Maximum Velocity	20 FPS
Materials	Valve body	Ductile cast iron ASTM A536
	Body finish	black alkyd enamel
	Stem seal	fiberglass with TFE lining
	Seat	EPDM
	Pipe connection	grooved ANSI/AWWA (c606)
	Disc	electroless nickel coated ductile iron
Suitable actuators	Non-Spring	AMB(X) GRCB(X) GMB(X)
	Spring	AFB(X)

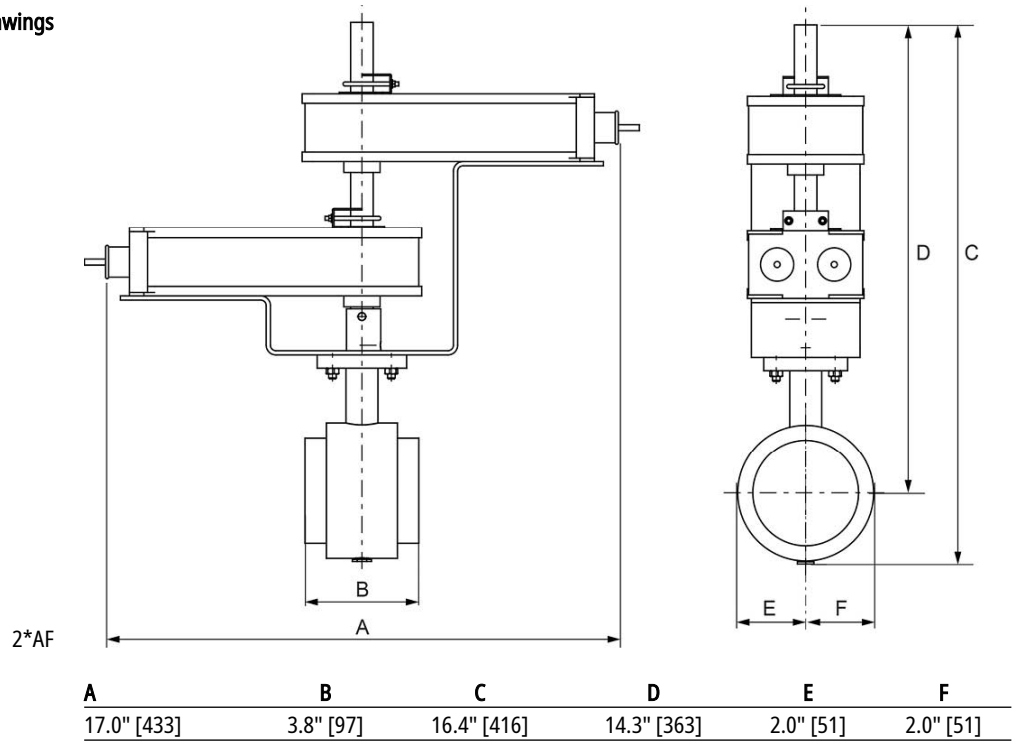
Product features

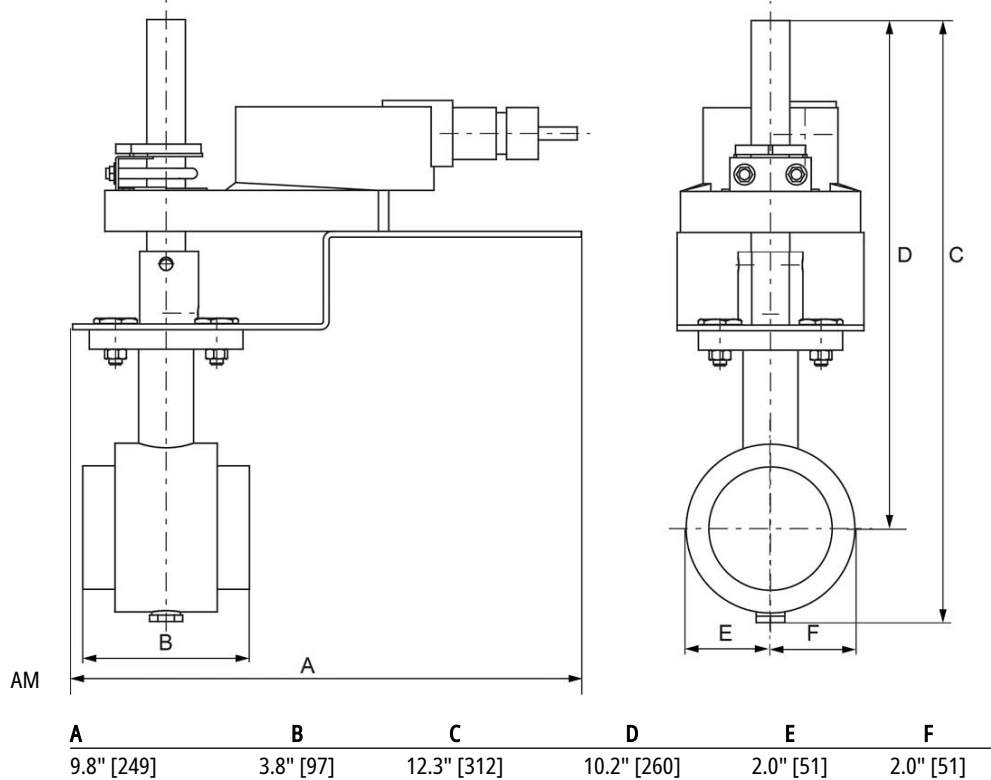
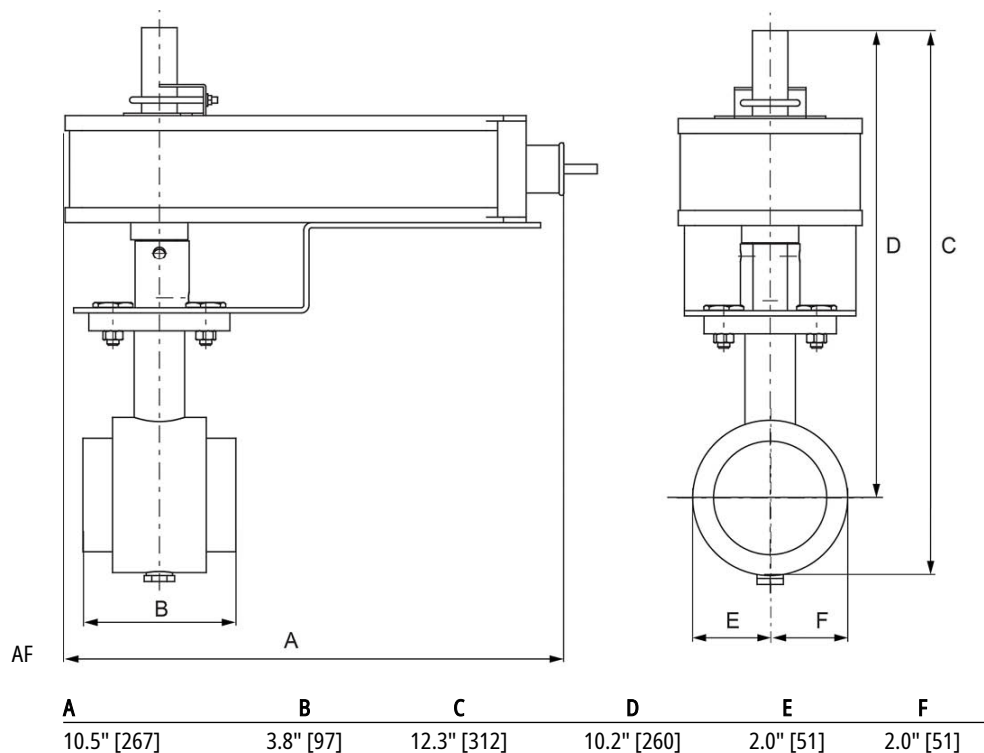
Flow/Mounting details

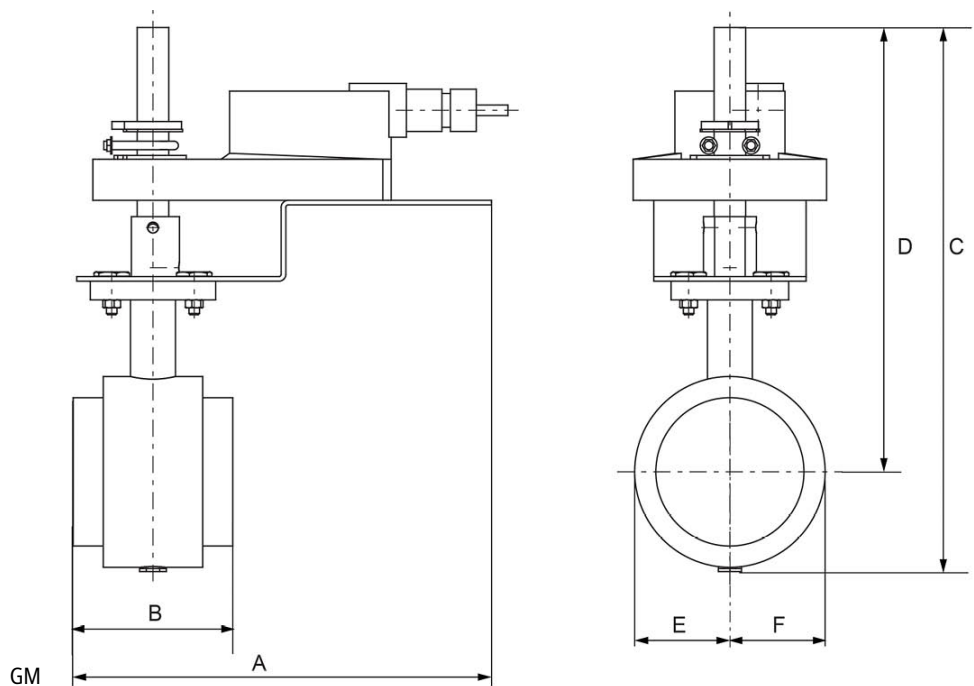


Dimensions

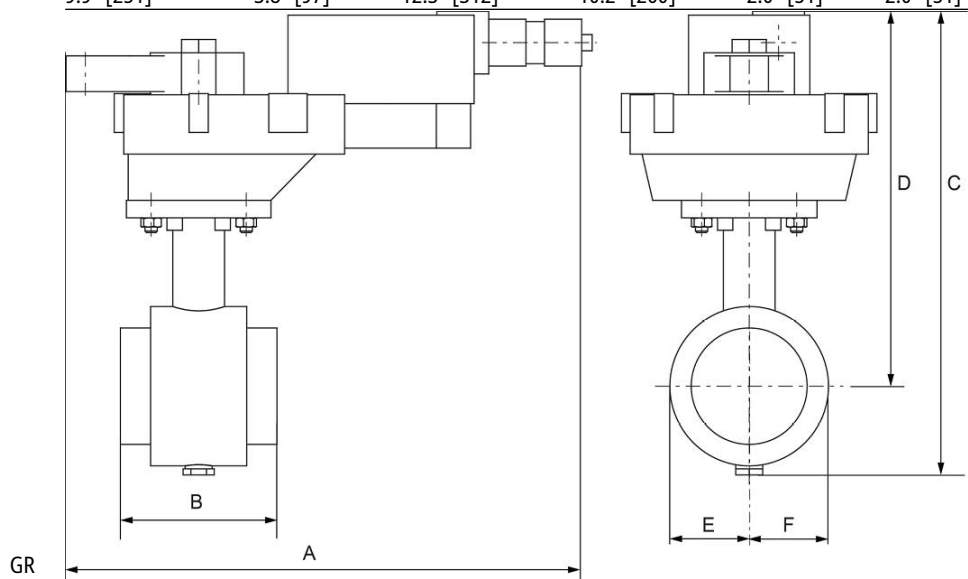
Dimensional drawings



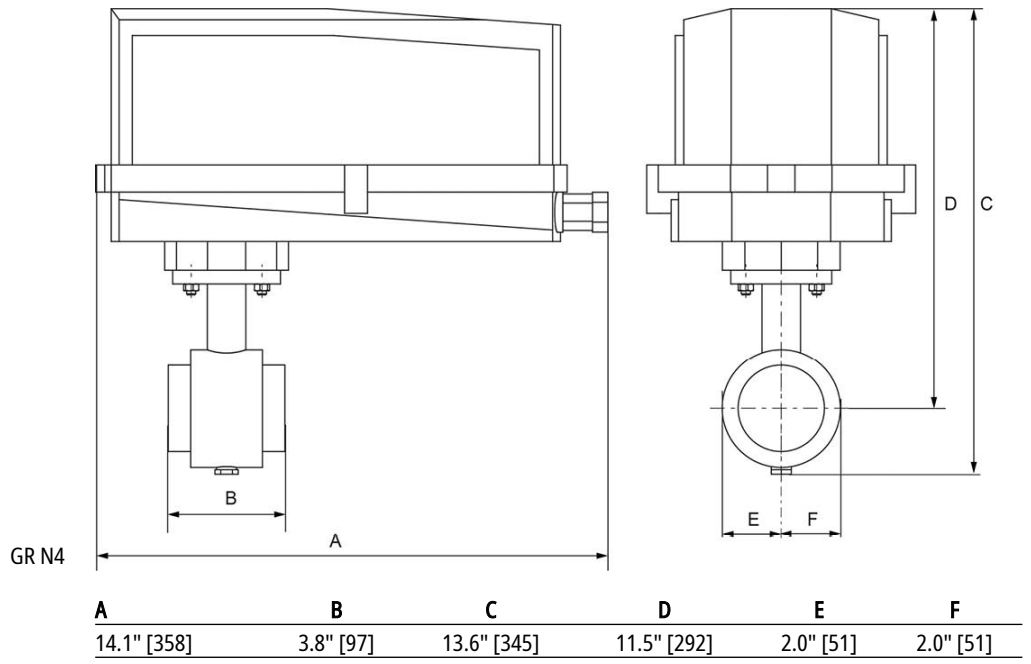


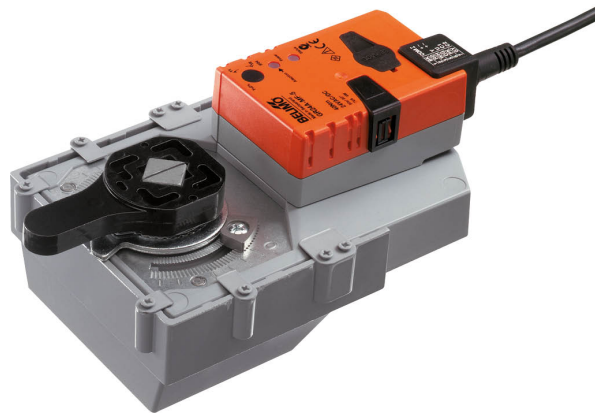


A	B	C	D	E	F
9.9" [251]	3.8" [97]	12.3" [312]	10.2" [260]	2.0" [51]	2.0" [51]



A	B	C	D	E	F
10.8" [275]	3.8" [97]	10.2" [260]	8.1" [206]	2.0" [51]	2.0" [51]





5-year warranty



Technical data

Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	8 W	
	Power consumption in rest position	2.5 W	
	Transformer sizing	11 VA (class 2 power source)	
	Electrical Connection	Screw terminal (for 26 to 14 GA wire), 1/2" conduit connector	
	Overload Protection	electronic throughout 0...90° rotation	
Functional data	Operating range Y	2...10 V	
	Operating range Y note	4...20 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)	
	Input Impedance	600 Ω	
	Operating range Y variable	Start point 0.5...30 V End point 2.5...32 V	
	Options positioning signal	variable (VDC, on/off, floating point)	
	Position feedback U	2...10 V	
	Position feedback U note	Max. 0.5 mA	
	Position feedback U variable	VDC variable	
	Direction of motion motor	selectable with switch 0/1	
	Manual override	external push button	
	Angle of rotation	90°, adjustable with mechanical stop	
	Angle of rotation note	adjustable with mechanical stop	
	Running Time (Motor)	default 35 s, variable 45 s	
	Running time motor variable	45 s	
Noise level, motor	45 dB(A)		
Position indication	integrated into handle		
Safety data	Degree of protection IEC/EN	IP54	
	Degree of protection NEMA/UL	NEMA 2 UL Enclosure Type 2	
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC	
	Quality Standard	ISO 9001	
	Ambient temperature	-22...122°F [-30...50°C]	
	Storage temperature	-40...176°F [-40...80°C]	
	Ambient humidity	max. 95% r.H., non-condensing	
	Servicing	maintenance-free	
	Weight	Weight	3.5 lb [1.6 kg]

Accessories

Gateways	Description	Type
	Gateway MP to BACnet MS/TP	UK24BAC
	Gateway MP to LonWorks	UK24LON
	Gateway MP to Modbus RTU	UK24MOD
Service tools	Description	Type
	Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and supply connection	ZK4-GEN
	Service Tool, with ZIP-USB function, for parametrisable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US

Electrical installation

INSTALLATION NOTES

- 1 Provide overload protection and disconnect as required.
- 3 Actuators may also be powered by DC 24 V.
- 5 Only connect common to negative (-) leg of control circuits.
- 7 A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.
- 16 Actuators are provided with a numbered screw terminal strip instead of a cable.
- 46 Actuators may be controlled in parallel. Current draw and input impedance must be observed.
- 47 Master-Slave wiring required for piggy-back applications. Feedback from Master to control input(s) of Slave(s).
- 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.

