

Potable water valve, 2-way, Flange

- For potable water applications
- NSF/ANSI 372 - Lead Free
- NSF/ANSI 61 – CLD 23 – Water Quality
- CRN: OC/2102CL
- MSS SP67-2002a



2-year warranty



Technical data

Functional data	Valve size [mm]	2.5" [65]
Fluid	Potable water	
Fluid Temp Range (water)	-30...120°C [-22...250°F]	
Body Pressure Rating	ANSI Class Consistent with 125, 200 psi CWP	
Close-off pressure Δp_s	150 psi	
Flow characteristic	modified equal percentage	
Leakage rate	0%	
Pipe connection	Flange for use with ASME/ANSI class 125/150	
Installation orientation	upright to horizontal (in relation to the stem)	
Servicing	maintenance-free	
Rangeability S_v	30:1 (for 30...70° range)	
Flow Pattern	2-way	
Controllable flow range	90° rotation	
C_v	196	
Maximum Velocity	12 FPS	
Lug threads	5/8-11 UNC	
Materials	Valve body	Ductile cast iron ASTM A536
	Body finish	Epoxy powder coating (black RAL 9005)
	Stem	416 stainless steel
	Stem seal	Buna-N
	Seat	EPDM
	Bearing	RPTFE
	Disc	Aluminum Bronze
Suitable actuators	Non Fail-Safe	AMB(X)
	Spring	AF
	Electrical fail-safe	GRCB(X) GKRB(X)

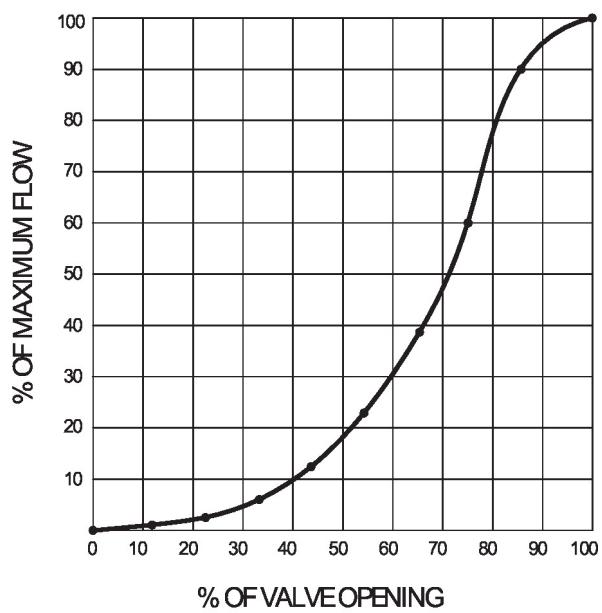
Safety notes



- The valve has to be exercised at least once a week, so that the quality of potable water as well as the functionality are not affected.

Product features

Flow/Mounting details



Operating mode The valve is adjusted by a rotary actuator. The rotary actuator is connected by an on/off signal. Open the ball valve counterclockwise and close it clockwise.

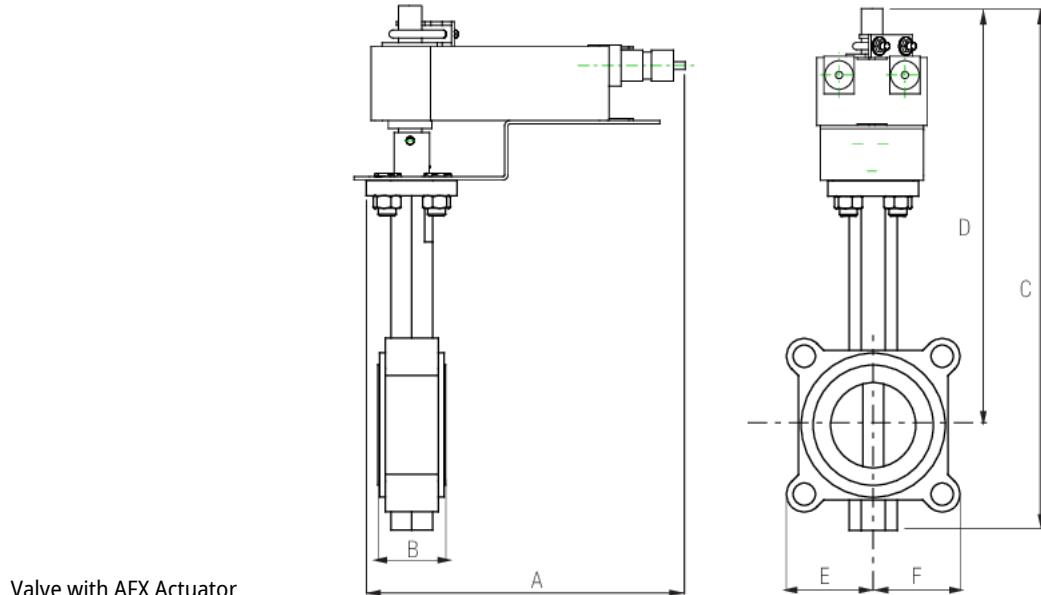
Dimensions

DN

65

Weight

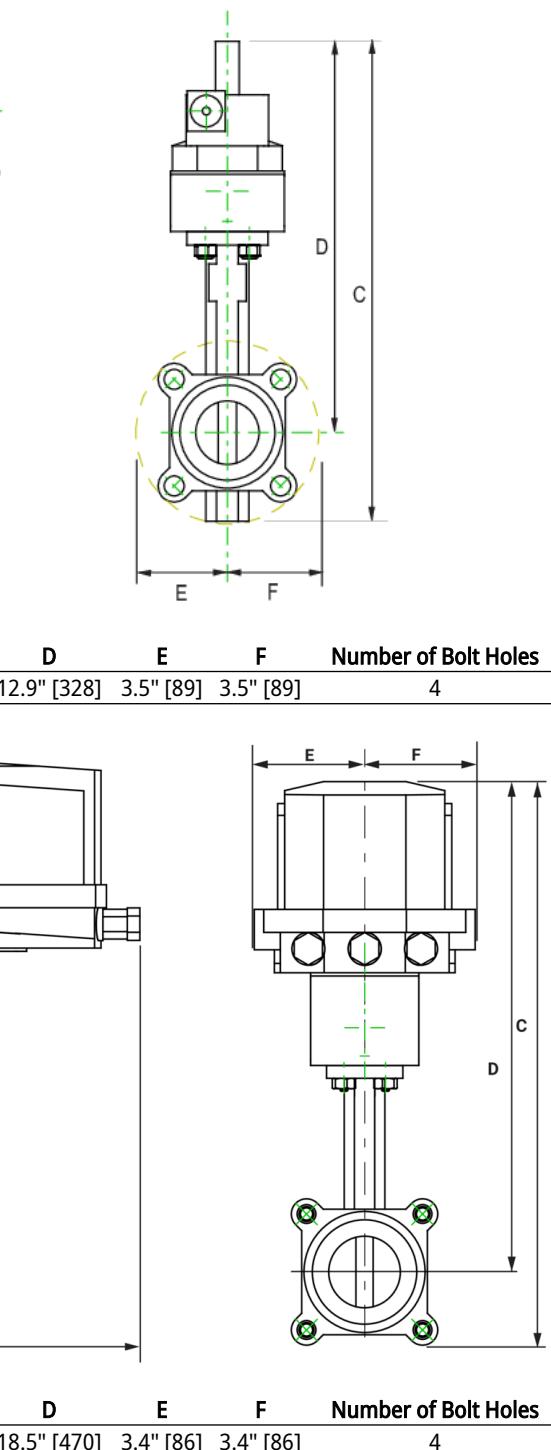
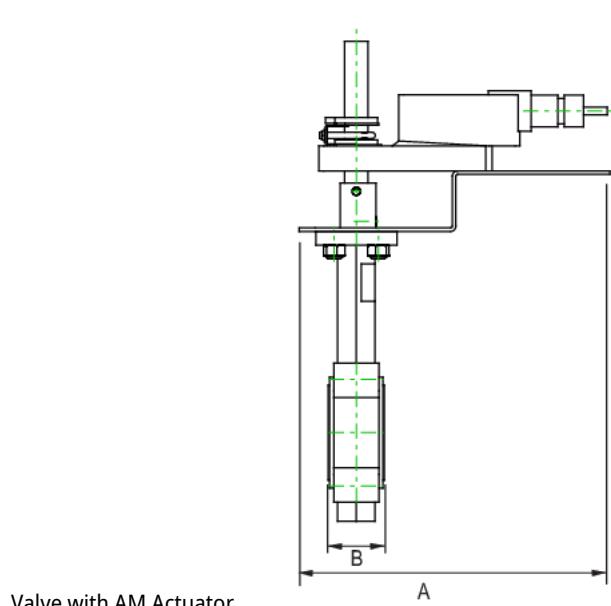
kg



Valve with AFX Actuator

A	B	C	D	E	F	Number of Bolt Holes
10.1" [257]	1.9" [49]	16.0" [406]	12.9" [328]	3.5" [89]	3.5" [89]	4

Dimensions



A	B	C	D	E	F	Number of Bolt Holes
10.1" [257]	1.9" [49]	16.0" [406]	12.9" [328]	3.5" [89]	3.5" [89]	4

A	B	C	D	E	F	Number of Bolt Holes
14.1" [358]	1.9" [49]	21.7" [550]	18.5" [470]	3.4" [86]	3.4" [86]	4

On/Off, Floating point, Non fail-safe, 24 V



5-year warranty



Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2...28.8 V / DC 21.6...28.8 V
	Power consumption in operation	8 W
	Power consumption in rest position	2.5 W
	Transformer sizing	11 VA
	Electrical Connection	Terminal blocks
	Overload Protection	electronic throughout 0...90° rotation
Functional data	Direction of motion motor	selectable with switch 0/1
	Manual override	under cover
	Angle of rotation	90°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	35 s / 90°
	Running time motor note	constant, independent of load
	Noise level, motor	45 dB(A)
	Position indication	Mechanical, 5...20 mm stroke
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP66/67
	Degree of protection NEMA/UL	NEMA 4X
	Housing	UL Enclosure Type 4X
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU
	Quality Standard	ISO 9001
	Ambient humidity	Max. 100% RH
	Ambient temperature	-22...122°F [-30...50°C]
	Ambient temperature note	-40...50°C [104...122°F] for actuator with integrated heating
	Storage temperature	-40...176°F [-40...80°C]
	Servicing	maintenance-free
Weight	Weight	6.9 lb [3.1 kg]

Materials	Housing material	Die cast aluminium and plastic casing
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Footnotes †Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3

Accessories

Electrical accessories	Description	Type
Battery backup system, for non-spring return models		NSV24 US
Battery, 12 V, 1.2 Ah (two required)		NSV-BAT
Auxiliary switch 1x SPDT add-on		S1A
Auxiliary switch 2x SPDT add-on		S2A
Feedback potentiometer 140 Ω add-on, grey		P140A GR
Feedback potentiometer 1 k Ω add-on, grey		P1000A GR
Feedback potentiometer 10 k Ω add-on, grey		P10000A GR
Feedback potentiometer 2.8 k Ω add-on, grey		P2800A GR
Feedback potentiometer 500 Ω add-on, grey		P500A GR
Feedback potentiometer 5 k Ω add-on, grey		P5000A GR
Factory add-on option only	Description	Type
Heater, with adjustable thermostat		ACT_PACK_H

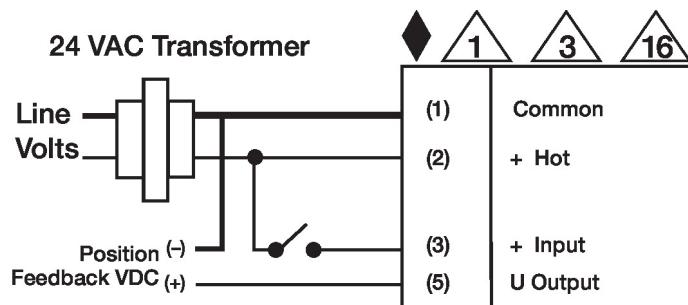
Electrical installation

☒ INSTALLATION NOTES

- ⚠ 1 Provide overload protection and disconnect as required.
- ⚠ 3 Actuators may also be powered by DC 24 V.
- ⚠ 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.
- ⚠ 1 **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.

Wiring diagrams

On/Off



Electrical installation

Wiring diagrams

Floating Point

