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

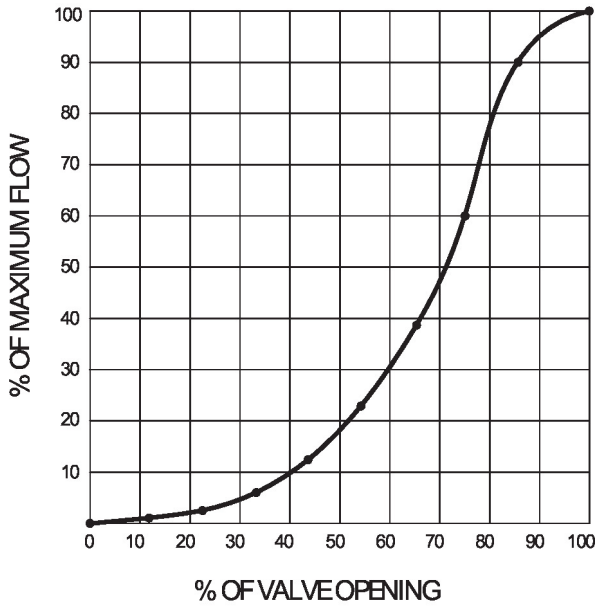
Functional data	Valve size [mm]	3" [80]
	Fluid	Potable water
	Fluid Temp Range (water)	-30...120°C [-22...250°F]
	Body Pressure Rating	ANSI Class Consistent with 125, 200 psi CWP
	Close-off pressure Δps	150 psi
	Flow characteristic	modified equal percentage
	Leakage rate	0%
	Pipe connection	Flange for use with ASME/ANSI class 125/150
	Installation orientation	upright to horizontal (in relation to the stem)
	Servicing	maintenance-free
	Rangeability Sv	30:1 (for 30...70° range)
	Flow Pattern	2-way
	Controllable flow range	90° rotation
	Cv	302
	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	GMB(X) GRCB(X)
	Electrical fail-safe	GKB(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

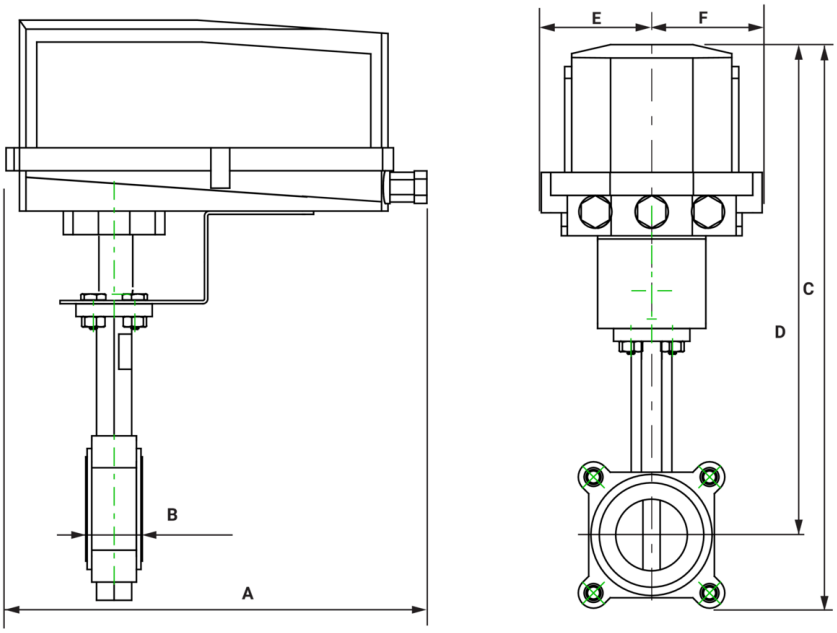
Flow/Mounting details



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

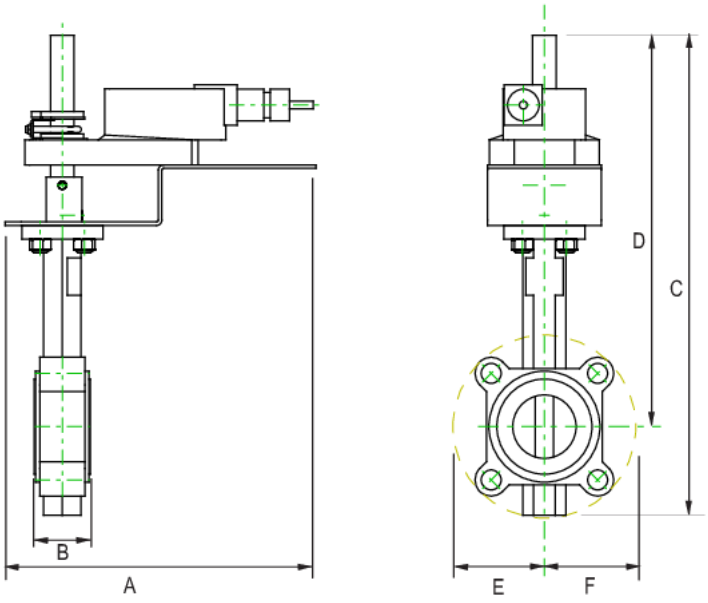
DN	Weight
80	9.0 lb [4.1 kg]



Valve with DR N4/GR N4/GK N4 Actuator

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

Dimensions



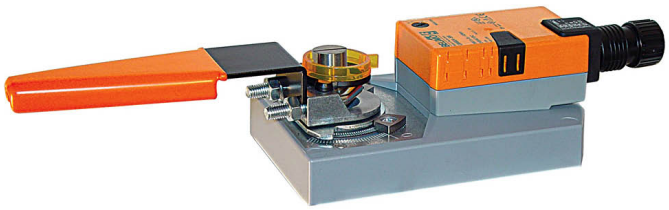
Valve with GM/GK Actuator

A	B	C	D	E	F	Number of Bolt Holes
10.1" [257]	1.9" [49]	16.5" [419]	13.1" [334]	3.4" [86]	3.4" [86]	4

BELIMO

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

Technical data sheet GMX24-3-X1



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	4 W
	Power consumption in rest position	2 W
	Transformer sizing	6 VA
	Electrical Connection	18 GA appliance or plenum cables, 1 m, 3 m or 5 m, with or without 1/2" NPT conduit connector
	Overload Protection	electronic throughout 0...95° rotation
Functional data	Direction of motion motor	selectable with switch 0/1
	Manual override	external push button
	Angle of rotation	Max. 95°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	150 s / 90°
	Running time motor note	constant, independent of load
	Noise level, motor	45 dB(A)
	Position indication	handle
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	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
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-22...122°F [-30...50°C]
	Storage temperature	-40...176°F [-40...80°C]
	Servicing	maintenance-free
Weight	Weight	3.4 lb [1.5 kg]
Materials	Housing material	Galvanized steel and plastic housing

Footnotes †Rated Impulse Voltage 800V, Type action 1, 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
	Feedback potentiometer 140 Ω add-on, grey	P140A GR
	Feedback potentiometer 500 Ω add-on, grey	P500A GR
	Feedback potentiometer 1 kΩ add-on, grey	P1000A GR
	Feedback potentiometer 2.8 kΩ add-on, grey	P2800A GR
	Feedback potentiometer 5 kΩ add-on, grey	P5000A GR
	Feedback potentiometer 10 kΩ add-on, grey	P10000A GR
	Auxiliary switch 1x SPDT add-on	S1A
	Auxiliary switch 2x SPDT add-on	S2A

Electrical installation

INSTALLATION NOTES

A Actuators with appliance cables are numbered.

1 Provide overload protection and disconnect as required.

3 Actuators may also be powered by DC 24 V.

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.

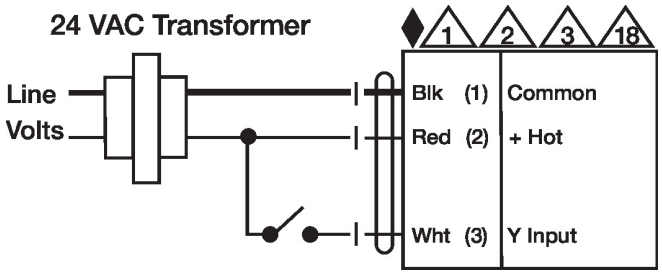
Meets cULus requirements without the need of an electrical ground connection.

Warning! Live electrical components!

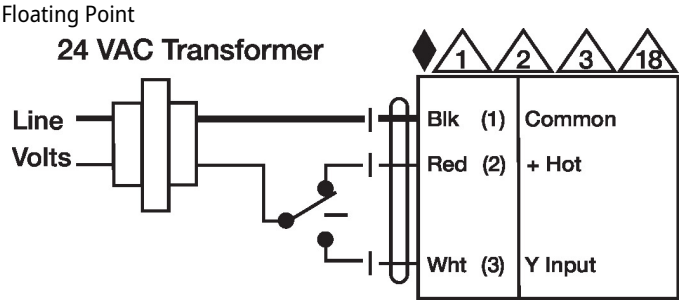
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

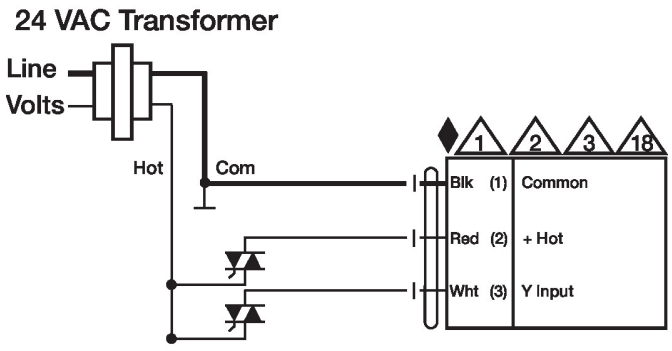
Wiring diagrams

On/Off



Floating Point





Floating Point - Triac Sink