

Potable water valve, 2-way, Flange for use with ASME/ANSI class 125/150

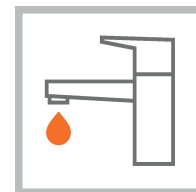
- For potable water applications
- NSF/ANSI 372 – Lead Free
- NSF/ANSI 61 – CLD 23 – Water Quality
- CRN: OC/2102CL
- MSS SP67-2002a



Picture may differ from product



2-year warranty



Type overview

DN	Cv	Body Pressure Rating
4" [100]	600	ANSI Class Consistent with 125, 200 psi CWP

Technical data

Functional data	Valve size [mm]	4" [100]
	Fluid	Potable Water
	Fluid Temp Range (water)	-22...250°F [-30...120°C]
	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 spindle)
	Servicing	maintenance-free
	Rangeability Sv	30:1 (for 30...70° range)
	Flow Pattern	2-way
	Controllable flow range	90° rotation
	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	DRB(X) DRCB(X) N4
	Electronic fail-safe	DKRB(X)

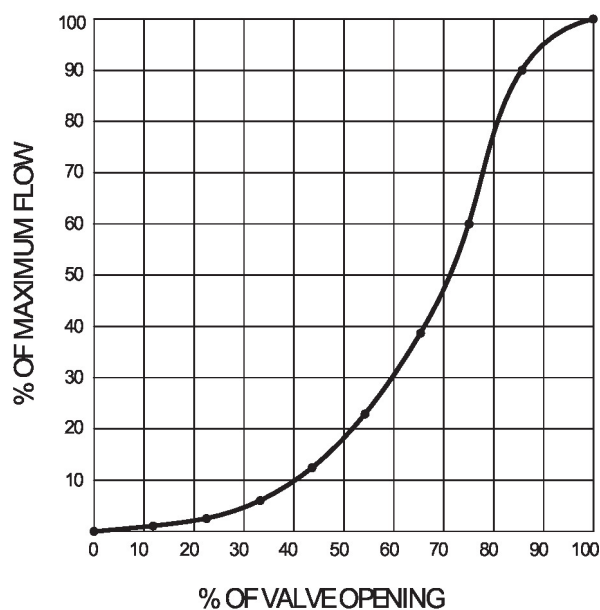
Safety notes



- 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.

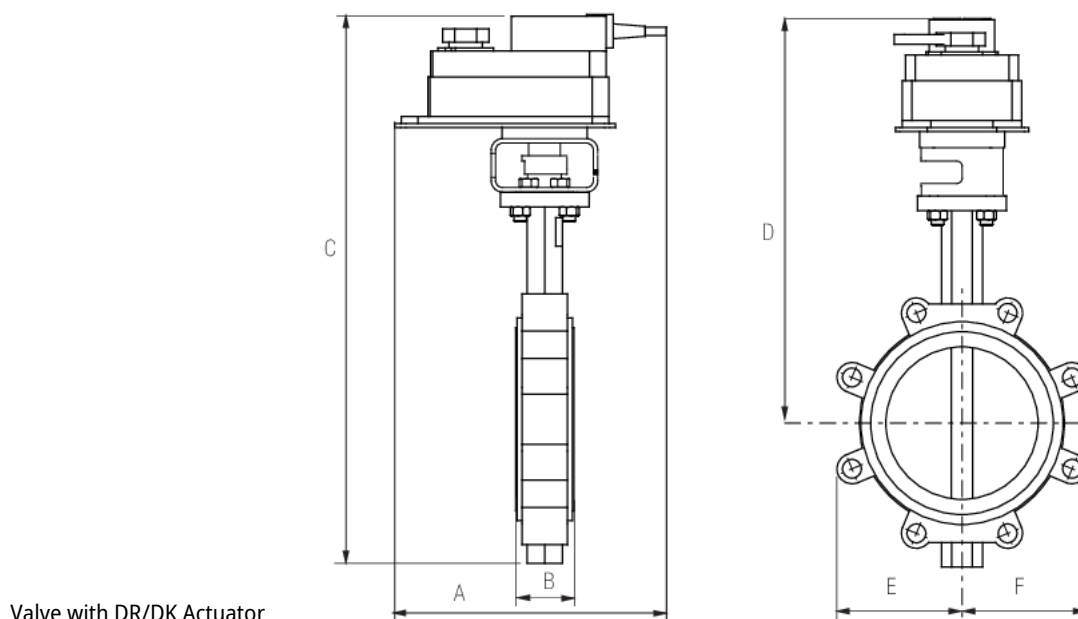
Dimensions

DN

4" [100]

Weight

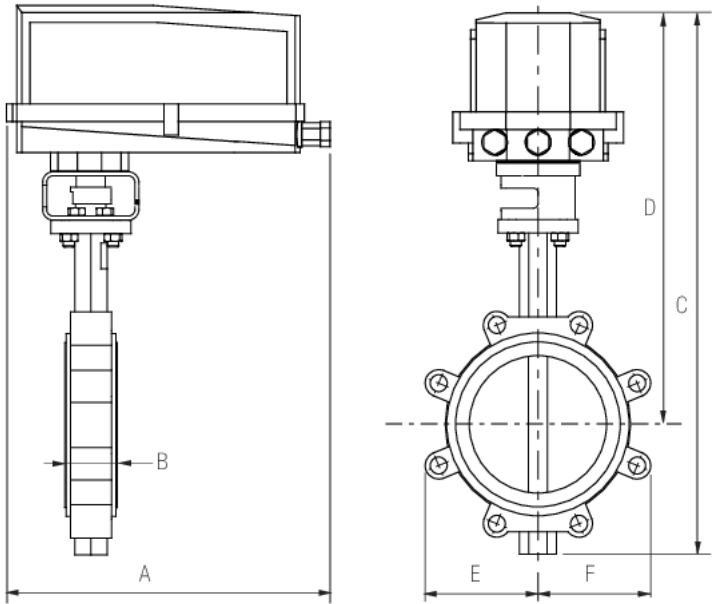
11 lb [5.0 kg]



A	B	C	D	E	F	Number of Bolt Holes
11.3" [286]	2.1" [54]	21.0" [533]	17.0" [431]	4.3" [110]	4.3" [110]	8

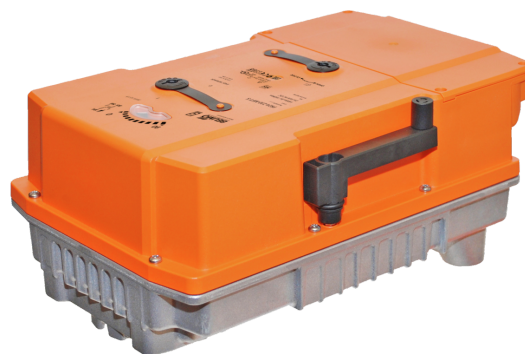
Dimensions

Valve with DR N4/DK N4 Actuator



A	B	C	D	E	F	Number of Bolt Holes
14.1" [358]	2.1" [54]	23.0" [584]	19.0" [483]	4.3" [110]	4.3" [110]	8

On/Off, Floating point, Non fail-safe, 24...240 V



Picture may differ from product



5-year warranty



Technical data

Electrical data	Nominal voltage	AC 24...240 V / DC 24...125 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2...264 V / DC 19.2...137.5 V
	Power consumption in operation	23 W
	Power consumption in rest position	7.5 W
	Transformer sizing	with 24 V 23 VA / with 240 V 55 VA
	Auxiliary switch	2x SPDT, 1 mA...3 A (0.5 A inductive), DC 5 V...AC 250 V (II, reinforced insulation), 1x 10° / 1x 0...90° (default setting 85°)
	Switching capacity auxiliary switch	1 mA...3 A (0.5 A inductive), DC 5 V...AC 250 V (II, reinforced insulation)
	Electrical Connection	Terminal blocks, (PE) Ground-Screw
	Overload Protection	electronic throughout 0...90° rotation
Functional data	Direction of motion motor	reversible with app
	Manual override	7 mm hex crank, supplied
	Angle of rotation	90°
	Running Time (Motor)	35 s / 90°
	Sound power level, motor	68 dB(A)
	Position indication	integral pointer
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]
	Servicing	maintenance-free
Weight	Weight	6.8 lb [3.1 kg]
Materials	Housing material	Die cast aluminium and plastic casing

Safety notes



- For maintenance work, the correct valve position must be set via the control signal. Additionally, the actuator must be disconnected from the power source. The hand crank and manual override shall not be used as a safety measure to maintain the valve position.

Product features

Application PR Series valve actuators are designed with an integrated linkage and visual position indicators. For outdoor applications, the installed valve must be mounted with the actuator at or above horizontal. For indoor applications the actuator can be in any location including directly under the valve.

Operation The PR series actuator provides 90° of rotation and a visual indicator shows the position of the valve. The PR Series actuator uses a low power consumption brushless DC motor and is electronically protected against overload. A universal power supply is furnished to connect supply voltage in the range of AC 24...240 V and DC 24...125 V. Included is a smart heater with thermostat to eliminate condensation. Two auxiliary switches are provided; one set at 10° open and the other is field adjustable. Running time is field adjustable from 30...120 seconds by using the Near Field Communication (NFC) app and a smart phone.

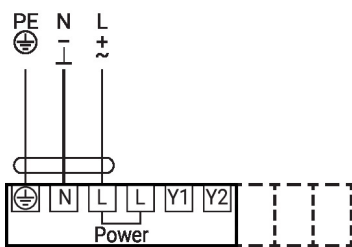
†Use 60°C/75°C copper wire size range 12...28 AWG, stranded or solid. Use flexible metal conduit. Push the listed conduit fitting device over the actuator's cable to butt against the enclosure. Screw in conduit connector. Jacket the actuators input wiring with listed flexible conduit. Properly terminate the conduit in a suitable junction box. Rated impulse Voltage 4000 V. Type of action 1. Control pollution degree 3.

Accessories

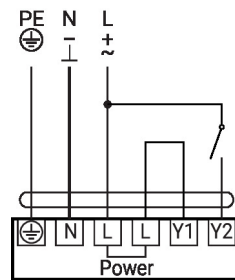
Mechanical accessories	Description	Type
	Hand crank for PR, PKR, PM	ZG-HND PR

Electrical installation

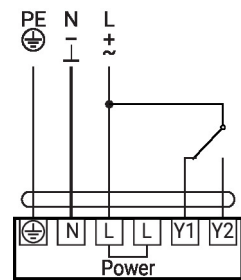
AC 24...240 V / DC 24...125 V



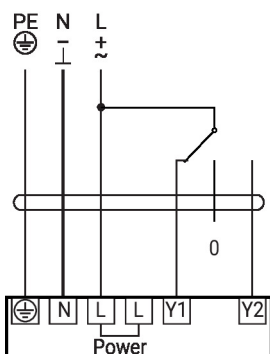
Control on/off



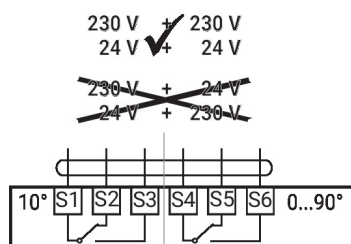
Control on/off



Control floating point



Auxiliary switch



Dimensions

