

Potable water valve, 2-way, Internal thread

- For potable water applications
- NSF/ANSI 372 Lead Free
- NSF/ANSI 61 CLD 23 Water Quality





5-year warranty



Type overview	
Туре	DN
B2150PW-R	40

Technical data

Functional data	Valve size [mm]	1.5" [40]	
	Potable water certificate	NSF/ANSI 61 NSF/ANSI 372	
	Fluid	Potable water	
	Fluid temperature	-4212°F [-20100°C]	
	Body Pressure Rating	600 psi CWP	
	Close-off pressure ∆ps	200 psi	
	Differential pressure Δpmax	25psi	
	Leakage rate	0%	
	Angle of rotation	90°	
	Pipe connection	Internal thread NPT (female)	
	Installation orientation	upright to horizontal (in relation to the stem)	
	Servicing	maintenance-free	
	Flow Pattern	2-way	
	Cv	144	
Materials	Valve body	Lead free brass	
	Stem	Lead free brass	
	Seat	PTFE	
	O-ring	EPDM	
	Ball	Chrome plated lead free brass	
Suitable actuators	Non Fail-Safe	ARB(X)	
	Electrical fail-safe	AFRB(X)	

Safety notes



- The ball 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.
- The valve has been designed for use in stationary potable water systems and must not be
 used outside the specified field of application, especially in aircraft or in any other airborne
 means of transport.
- The valve does not contain any parts that can be replaced or repaired by the user.



Product features

Operating mode

The on/off ball 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.

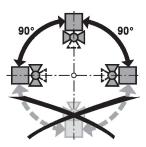
Installation notes

Notes

The ball valve is a regulating device. To fulfil this control task in the long term, the circuit must be kept free from particle debris (e.g. welding beads during installation work).

Permissible installation orientation

The ball valve can be installed upright to horizontal. The ball valve may not be installed in a hanging position, i.e. with the stem pointing downwards.



Servicing

Ball valves and rotary actuators are maintenance-free.

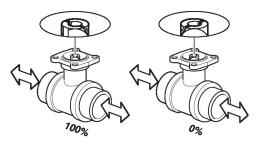
Before any service work on the control element is carried out, it is essential to isolate the rotary actuator from the power supply (by unplugging the electrical cable if necessary). Any pumps in the part of the piping system concerned must also be switched off and the appropriate slide valves closed (allow all components to cool down first if necessary and always reduce the system pressure to ambient pressure level).

The system must not be returned to service until the ball valve and the rotary actuator have been correctly reassembled in accordance with the instructions and the pipeline has been refilled by professionally trained personnel.

Flow direction

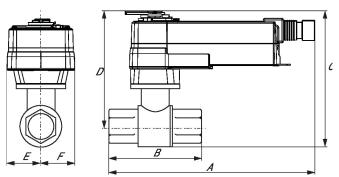
AFRB, AFRX

Please also ensure that the ball is in the correct position (marking on the shaft).



Dimensions

Туре	DN	Weight
B2150PW-R	40	3.3 lb [1.5 kg]

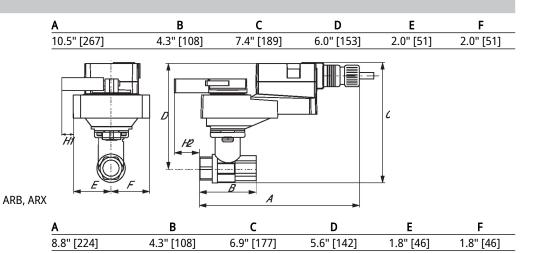


8.8" [224]

1.8" [46]



Dimensions



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On/Off, Spring return, 24...240 V



Technical data		
Electrical data	Nominal voltage	AC 24240 V / DC 24125 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2264 V / DC 21.6137.5 V
	Power consumption in operation	7 W
	Power consumption in rest position	3.5 W
	Transformer sizing	18 VA
	Auxiliary switch	2x SPDT, 1 mA3 A (0.5 A inductive), DC 5 VAC 250 V, 1x 10% / 1x 1190%
	Switching capacity auxiliary switch	1 mA3 A (0.5 A inductive), DC 5 VAC 250 V
	Electrical Connection	(2) 18 GA appliance cables, 3 ft [1 m], with 1/2" NPT conduit connectors
	Overload Protection	electronic throughout 095° rotation
Functional data	Direction of motion motor	selectable by ccw/cw mounting
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Manual override	5 mm hex crank (3/16" Allen), supplied
	Angle of rotation	90°
	Running Time (Motor)	75 s / 90°
	Running time fail-safe	<20 s
	Noise level, motor	45 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	Mechanical
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	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	5.7 lb [2.6 kg]



Technical data

Materials Housing material

Galvanized steel and plastic housing

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

Electrical installation

INSTALLATION NOTES

(A) Actuators with appliance cables are numbered.

UP Universal Power Supply (UP) models can be supplied with AC 24...240 V, or DC 24...125 V.

A Provide overload protection and disconnect as required.

Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.

🔬 Actuators may be powered in parallel. Power consumption must be observed.

Parallel wiring required for piggy-back applications.

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

Marning! 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.



Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.

Wiring diagrams On/Off

