

## 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]                                 | 4" [100]                              |
|---------------------------------|---|---------------------------------------|
| 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 $\Delta p_s$ | 150 psi   |                                       |
| Flow characteristic             | modified equal percentage                       |                                       |
| Leakage rate                    | 0%  |                                       |
| Pipe connection                 | Flange<br>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                                    |                                       |
| $C_v$                           | 600   |                                       |
| 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)<br>DRCB(X) N4                  |
|                                 | Electrical 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.

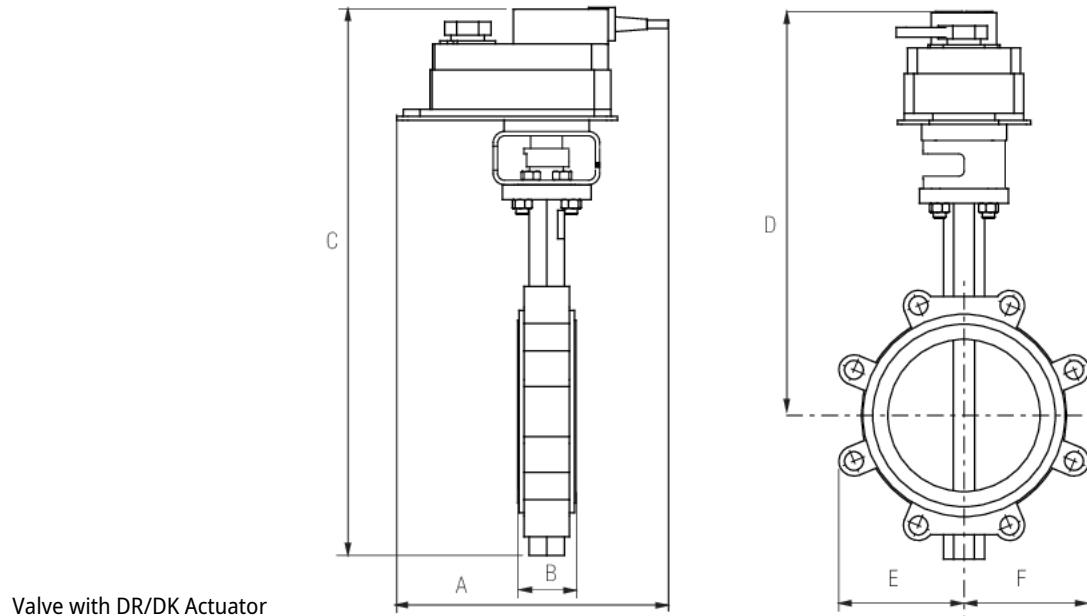
## Dimensions

## DN

100

## Weight

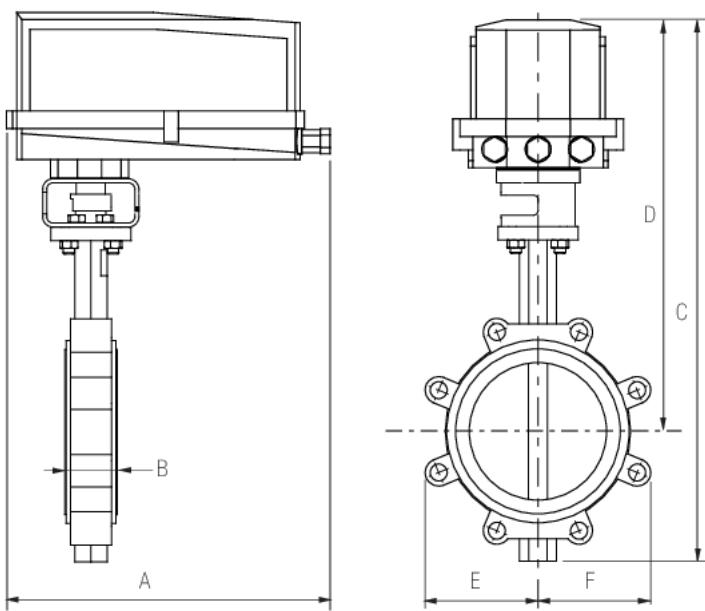
11 lb [5.0 kg]



| 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, Electronic fail-safe, 24 V



5-year warranty



## Technical data

|                        |                                    |   |
|------------------------|------------------------------------|---|
| <b>Electrical data</b> | Nominal voltage                    | AC 24 V   |
|                        | Nominal voltage frequency          | 50/60 Hz  |
|                        | Nominal voltage range              | AC 19.2...28.8 V  |
|                        | Power consumption in operation     | 12 W  |
|                        | Power consumption in rest position | 3 W   |
|                        | Transformer sizing                 | 21 VA   |
|                        | Electrical Connection              | Terminal blocks   |
|                        | Overload Protection                | electronic throughout 0...90° rotation                        |
| <b>Functional data</b> | Direction of motion motor          | selectable with switch 0/1                                    |
|                        | Manual override                    | under cover   |
|                        | Running Time (Motor)               | 150 s / 90°   |
|                        | Running time motor variable        | 90 or 150 s   |
|                        | Running time fail-safe             | <35 s   |
|                        | Noise level, motor                 | 45 dB(A)  |
|                        | Noise level, fail-safe             | 60 dB(A)  |
|                        | Position indication                | Mechanical, 5...20 mm stroke                                  |
| <b>Safety data</b>     | 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  |
|                        | 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  |
| <b>Weight</b>          | Weight                             | 11 lb [4.8 kg]  |
| <b>Materials</b>       | Housing material                   | Die cast aluminium and plastic casing                         |

## Accessories

| Factory add-on option only | Description                        | Type       |
|----------------------------|------------------------------------|------------|
|                            | Heater, with adjustable thermostat | ACT_PACK_H |

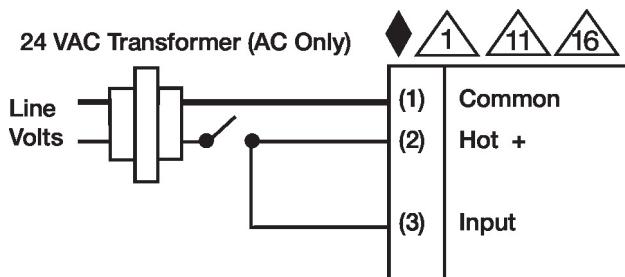
## Electrical installation

 **INSTALLATION NOTES**

-  **1** Provide overload protection and disconnect as required.
-  **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.
-  **11** Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.
-  **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.**
-  **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

