

- For potable water applications
- NSF/ANSI 372 - Lead Free
- NSF/ANSI 61 - 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) | -22...250°F [-30...120°C] |
| | Body Pressure Rating | ANSI Class Consistent with 125, 200 psi CWP |
| | Close-off pressure Δps | 150 psi |
| | Flow characteristic | modified equal percentage |
| | Installation position | upright to horizontal (in relation to the stem) |
| | Servicing | maintenance-free |
| | Rangeability Sv | 30:1 (for 30...70° range) |
| | Flow Pattern | 2-way |
| | Leakage rate | 0% |
| | Controllable flow range | 90° rotation |
| | Cv | 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) |
| | Spindle | 416 stainless steel |
| | Spindle seal | Buna-N |
| | Seat | EPDM |
| | Pipe connection | for use with ANSI class 125/150 flanges |
| | Bearing | RPTFE |
| | Disc | Aluminum Bronze |
| Suitable actuators | Non-Spring | AMB(X) |
| | Spring | AF |
| | Electrical fail-safe | GRCB(X) GKRB(X) |

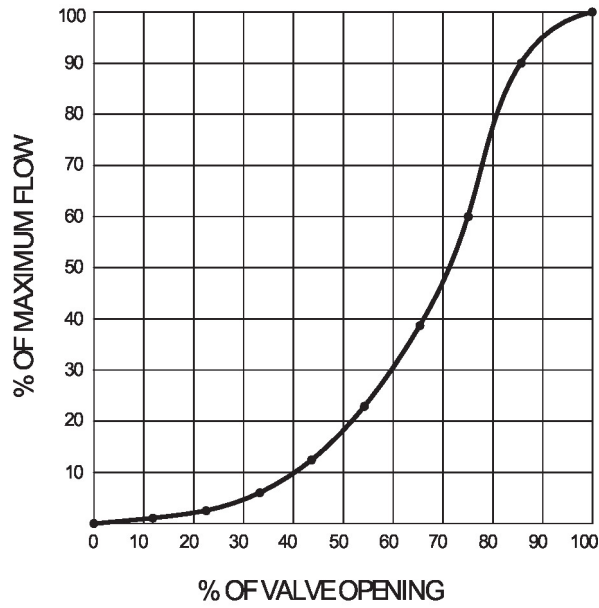
Safety notes



- 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



Product features

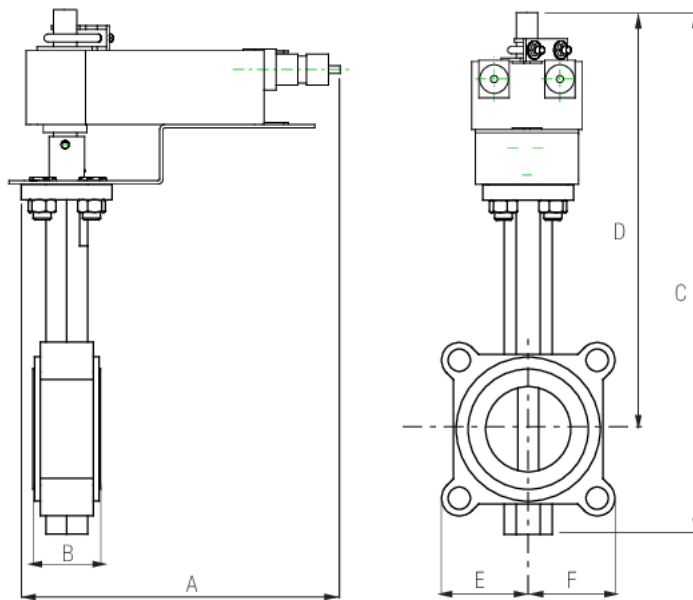
Mode of operation The valve is adjusted by a rotary actuator. The rotary actuator is connected by an on/off signal. Open the ball valve counterclockwise and close it clockwise.

Dimensions

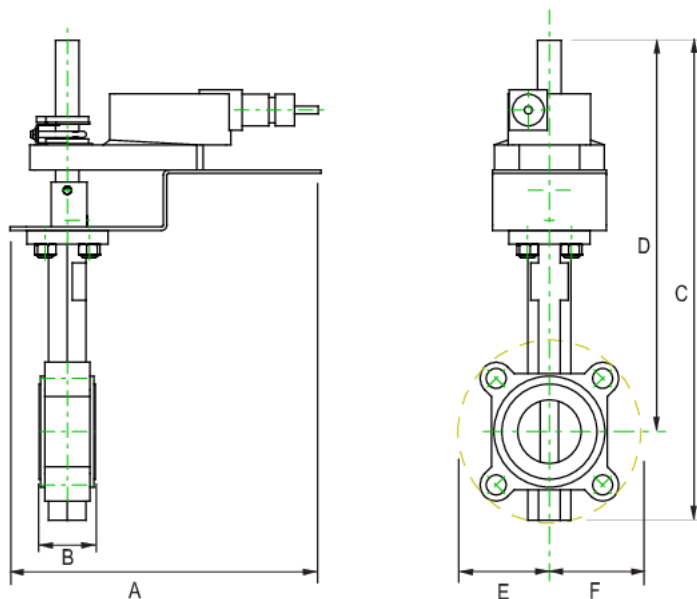
DN
65

Weight
10 lb [4.5 kg]

Valve with AFX Actuator

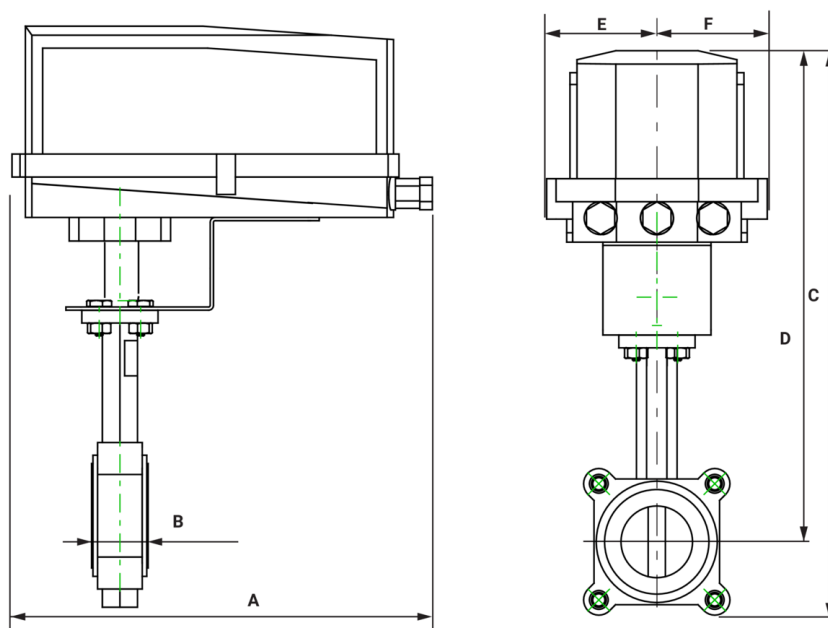


| A | B | C | D | E | F | Number of Bolt Holes |
|-------------|-----------|-------------|-------------|-----------|-----------|----------------------|
| 10.1" [257] | 1.9" [49] | 16.0" [406] | 12.9" [328] | 3.5" [89] | 3.5" [89] | 4 |



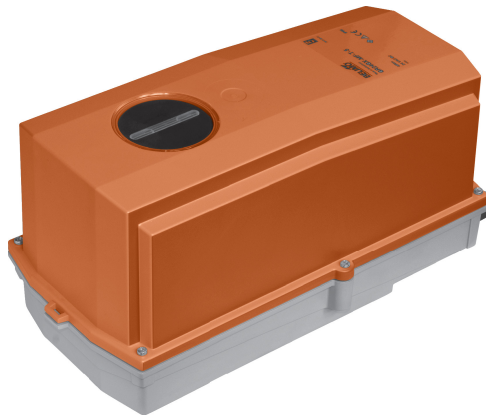
Valve with AM Actuator

| 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 |



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 |



5-year warranty



Technical data








| | | |
|------------------------|--|---|
| Electrical data | Nominal voltage | AC/DC 24 V |
| | Nominal voltage frequency | 50/60 Hz |
| | Power consumption in operation | 8 W |
| | Power consumption in rest position | 2.5 W |
| | Transformer sizing | 11 VA (class 2 power source) |
| | 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 | Mechanically, 5...20 mm stroke | |
| Safety data | Degree of protection IEC/EN | IP66/67 |
| | Degree of protection NEMA/UL | NEMA 4X |
| | Enclosure | 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 temperature | -22...122°F [-30...50°C] |
| | Ambient temperature note | -40...50°C for actuator with integrated heating |
| | Storage temperature | -40...176°F [-40...80°C] |
| | Ambient humidity | Max. 100% RH |
| Servicing | maintenance-free | |
| Materials | Housing material | Die cast aluminium and plastic casing |
| 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 1 x SPDT add-on | S1A |
| | Auxiliary switch 2 x SPDT add-on | S2A |
| | Feedback potentiometer 140 Ω add-on, grey | P140A GR |
| | Feedback potentiometer 1 kΩ add-on, grey | P1000A GR |
| | Feedback potentiometer 10 kΩ add-on, grey | P10000A GR |
| | Feedback potentiometer 2.8 kΩ add-on, grey | P2800A GR |
| | Feedback potentiometer 500 Ω add-on, grey | P500A GR |
| | Feedback potentiometer 5 kΩ add-on, grey | P5000A GR |
| Factory add-on option only | Description | Type |
| | Heater, with adjustable thermostat | N4 Heater Add-on 24V (-H) |

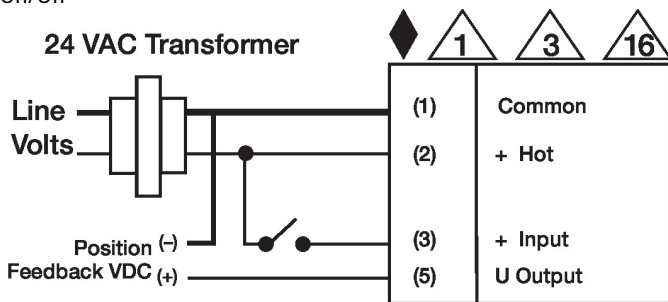
Electrical installation

INSTALLATION NOTES

-  Provide overload protection and disconnect as required.
-  Actuators may also be powered by DC 24 V.
-  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.
-  IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).
-  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

