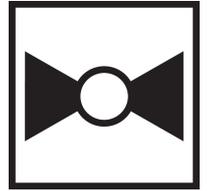




5-year warranty



Type overview

|      |    |
|------|----|
| Type | DN |
| B264 | 65 |

Technical data

|                    |                          |  |
|--------------------|--------------------------|--|
| Functional data    | Valve size [mm]          | 2.5" [65]                              |
|                    | Fluid                    | chilled or hot water, up to 60% glycol |
|                    | Fluid Temp Range (water) | 0...212°F [-18...100°C]                |
|                    | Body Pressure Rating     | 400 psi                                |
|                    | Close-off pressure Δps   | 100 psi                                |
|                    | Flow characteristic      | equal percentage                       |
|                    | Pipe connection type     | Internal thread<br>NPT (female)        |
|                    | Servicing                | maintenance-free                       |
|                    | Flow Pattern             | 2-way                                  |
|                    | Leakage rate             | 0% for A – AB                          |
|                    | Controllable flow range  | 75°                                    |
|                    | Cv                       | 150                                    |
|                    | Materials                | Valve body                             |
| Stem               |                          | stainless steel                        |
| Stem seal          |                          | EPDM (lubricated)                      |
| Seat               |                          | PTFE                                   |
| Characterized disc |                          | TEFZEL®                                |
| O-ring             |                          | EPDM (lubricated)                      |
| Ball               |                          | stainless steel                        |
| Suitable actuators | Non-Spring               | ARB(X)                                 |
|                    | Spring                   | AFRB(X)                                |

Safety notes

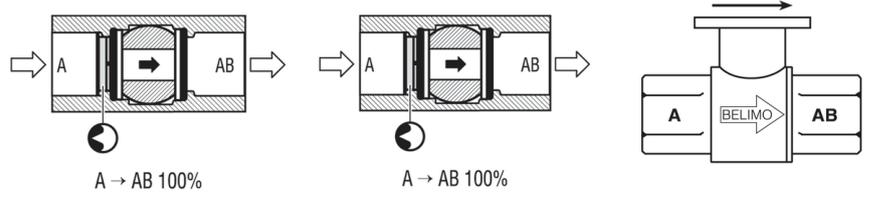


- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

Product features

**Application** This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

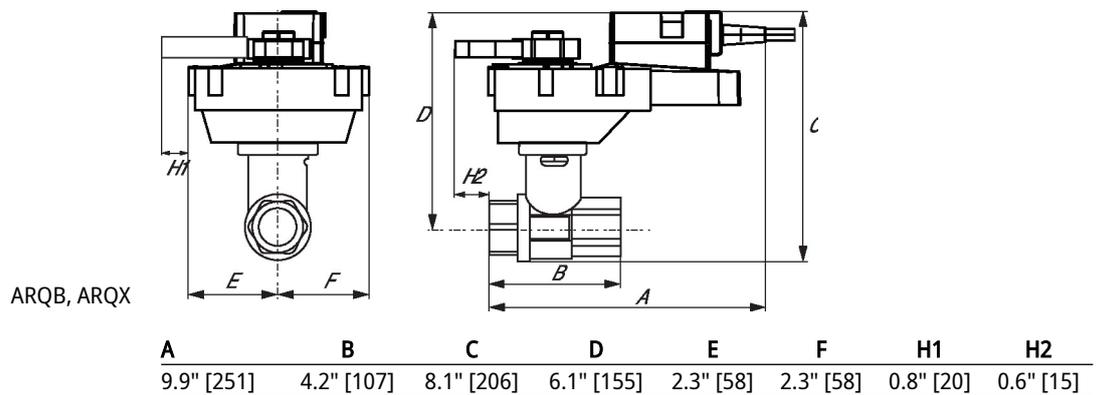
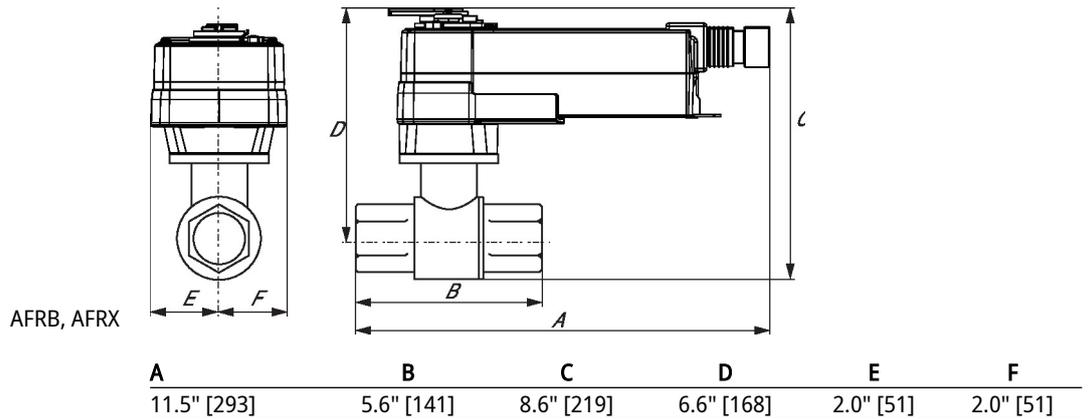
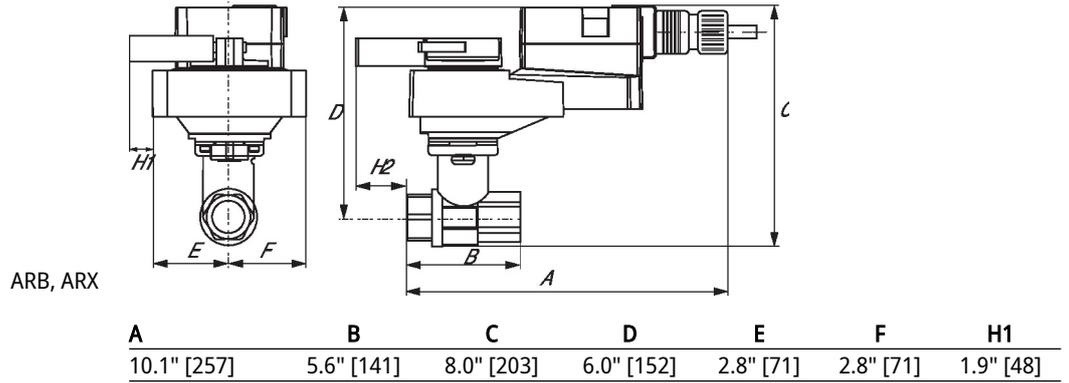
Flow/Mounting details



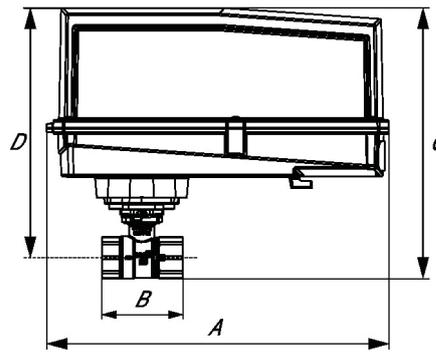
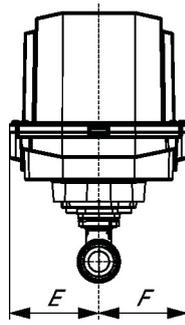
Two-way valves should be installed with the disc upstream.

Dimensions

|             |           |                 |
|-------------|-----------|-----------------|
| <b>Type</b> | <b>DN</b> | <b>Weight</b>   |
| B264        | 65        | 8.1 lb [3.7 kg] |

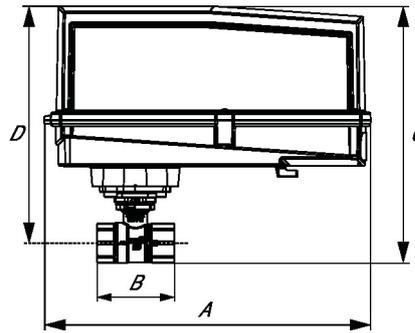
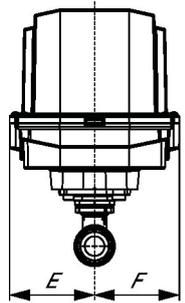


AFRB N4, AFRX N4



| A           | B          | C           | D          | E         | F         |
|-------------|------------|-------------|------------|-----------|-----------|
| 13.0" [330] | 5.6" [141] | 10.3" [262] | 9.3" [235] | 3.4" [86] | 3.4" [86] |

ARB N4, ARX N4, NRB N4, NRX N4



| A           | B          | D          | E         | F         |
|-------------|------------|------------|-----------|-----------|
| 11.4" [289] | 5.6" [141] | 8.0" [203] | 3.1" [80] | 3.1" [80] |



5-year warranty



Technical data

|                              |                                    |   |   |
|------------------------------|------------------------------------|---|---|
| <b>Electrical data</b>       | 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     | 3.5 W   |   |
|                              | Power consumption in rest position | 1.3 W   |   |
|                              | Transformer sizing                 | 5.5 VA  |   |
|                              | Electrical Connection              | Cable with conduit connector  |   |
|                              | Overload Protection                | electronic throughout 0...90° rotation  |   |
| <b>Functional data</b>       | Operating range Y                  | 0...20 V PhC  |   |
|                              | Operating range Y note             | Phasecut control (PhC) is only for the positive part of the sine wave (max. of 10 volts)    |   |
|                              | Input impedance                    | 8000 Ω (50mW)   |   |
|                              | Position feedback U                | 2...10 V  |   |
|                              | Direction of motion motor          | selectable with switch 0/1  |   |
|                              | Manual override                    | external push button  |   |
|                              | Angle of rotation                  | 90°   |   |
|                              | Angle of rotation note             | adjustable with mechanical stop   |   |
|                              | Running Time (Motor)               | 90 s / 90°  |   |
|                              | Running time motor variable        | 90 or 150 s   |   |
|                              | Noise level, motor                 | 45 dB(A)  |   |
|                              | Position indication                | Mechanical, pluggable   |   |
|                              | <b>Safety data</b>                 | 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<br>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  |   |
| <b>Weight</b>                |                                    | Weight  | 2.4 lb [1.1 kg]                                       |
|                              |                                    | <b>Materials</b>  | Housing material Galvanized steel and plastic housing |

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

Electrical installation

**INSTALLATION NOTES**

- Provide overload protection and disconnect as required.
- Actuators may also be powered by DC 24 V.
- Only connect common to negative (-) leg of control circuits.
- 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**

Phasecut Control

