









Technical data

| E: | ın | cti | _ | 2 | ı | ata |
|----|----|-----|---|---|---|-----|
| | | | | | | |

| hilled or hot water, up to 60% glycol250°F [-18120°C] 00 psi 00 psi -port equal percentage, B-port modified for constant common port flow |
|---|
| 00 psi 00 psi 00 psi 00 psi -port equal percentage, B-port modified for onstant common port flow |
| 00 psi 00 psi -port equal percentage, B-port modified for onstant common port flow |
| 00 psi -port equal percentage, B-port modified for onstant common port flow |
| -port equal percentage, B-port modified for onstant common port flow |
| onstant common port flow |
| naintenance-free |
| |
| -way Mixing/Diverting |
| % for A – AB, <2.0% for B – AB |
| 5° |
| 8 |
| -port: as stated in chart B-port: 70% of A – AB v |
| ickel-plated brass body |
| tainless steel |
| PDM (lubricated) |
| TFE |
| EFZEL® |
| PT female ends |
| PDM (lubricated) |
| |
| tainless steel |
| RB(X) |
| |

Safety notes



Suitable actuators

Materials

 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

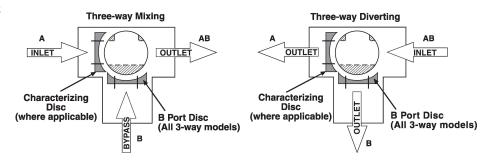
Product features

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 reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

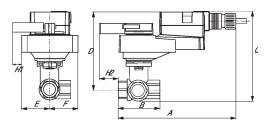


Flow/Mounting details



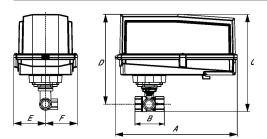
Dimensions





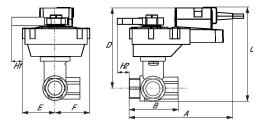
ARB, ARX

| Туре | DN | | | Weight [kg] [kg] | | | | |
|------|-------------|------------|------------|---------------------|-----------|-----------|-----------|--|
| B351 | 50 | | | 2.5 | | | | |
| | Α | В | С | D | E | F | H1 | |
| | 10.5" [267] | 4.9" [125] | 7.7" [196] | 6.0" [152] | 1.7" [44] | 2.6" [66] | 0.8" [20] | |



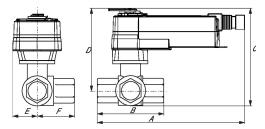
ARB N4, ARX N4

| Α | В | С | D | E | F |
|-------------|------------|------------|------------|-----------|-----------|
| 11.4" [289] | 4.9" [125] | 9.8" [249] | 8.0" [203] | 3.1" [80] | 3.1" [80] |



ARQB, ARQX

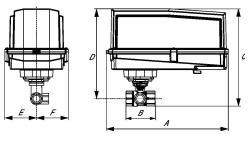
| Α | В | C | D | E | F | H1 | H2 |
|------------|------------|------------|------------|-----------|-----------|-----------|-----------|
| 9.9" [251] | 4.9" [125] | 8.3" [211] | 6.6" [168] | 2.3" [58] | 2.6" [66] | 0.8" [20] | 0.6" [15] |



AFRB, AFRX

| Α | В | С | D | E | F |
|-------------|------------|------------|------------|-----------|-----------|
| 11.3" [286] | 4.9" [125] | 8.3" [211] | 6.6" [168] | 2.6" [66] | 2.6" [66] |





AFRB N4, AFRX N4

| Α | В | C | D | E | F |
|-------------|------------|-------------|------------|-----------|-----------|
| 13.0" [330] | 4.9" [125] | 11.8" [300] | 9.9" [251] | 3.7" [95] | 3.7" [95] |



| Technical data | | |
|-----------------|------------------------------------|--|
| Electrical data | Nominal voltage | AC 24240 V / DC 24125 V |
| | Nominal voltage frequency | 50/60 Hz |
| | Power consumption in operation | 7 W |
| | Power consumption in rest position | 3.5 W |
| | Transformer sizing | 7 VA @ AC 24 V (class 2 power source), 8.5 VA @ AC 120 V, 18 VA @ AC 240 V |
| | Electrical Connection | 18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector |
| | 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 |
| | Running time fail-safe | <20 s @ 68°F [20°C] |
| | Noise level, motor | 45 dB(A) |
| | Noise level, fail-safe | 62 dB(A) |
| | Position indication | Mechanical |
| Safety data | 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; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC |
| | Quality Standard | ISO 9001 |
| | Ambient temperature | -22122°F [-3050°C] |
| | Storage temperature | -40176°F [-4080°C] |
| | Ambient humidity | Max. 95% RH, non-condensing |
| | Servicing | maintenance-free |
| Weight | Weight | 4.1 lb [1.9 kg] |
| | | |

Electrical installation



A Actuators with appliance cables are numbered.

(UP) Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.



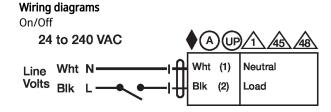
Provide overload protection and disconnect as required.

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.



Dimensions