







Technical data

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

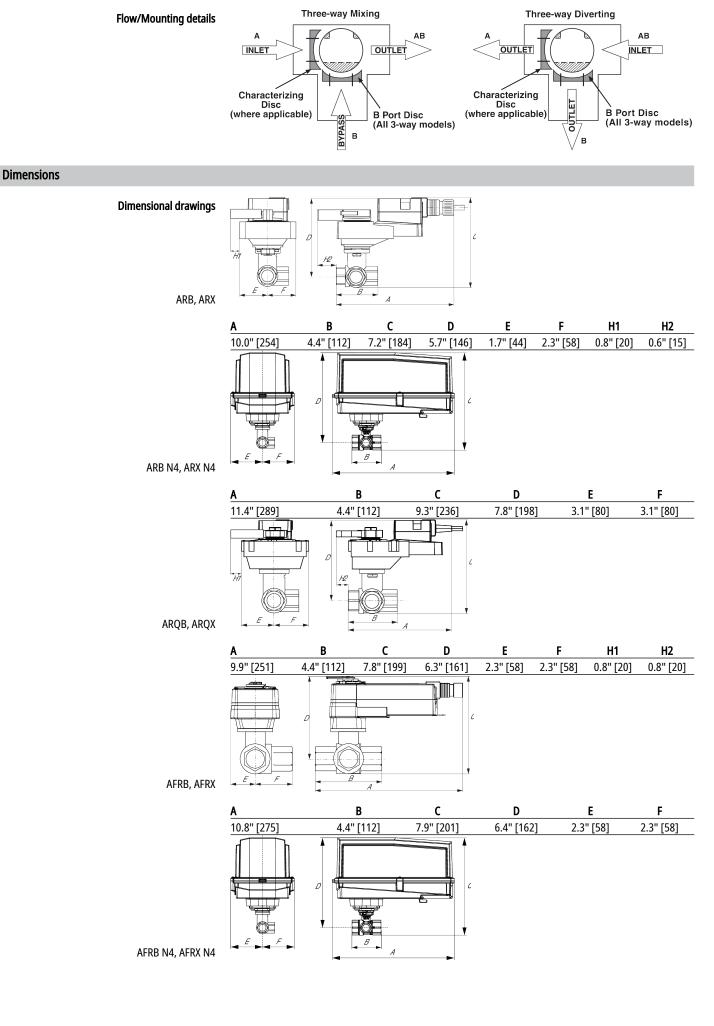
Product features

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 or constant flow.



Technical data sheet





| | | | 1.1 | | |
|-----|------|---------|-----|-----|------|
| Tec | 63 | | 2.0 | 2.0 | Not. |
| | | | | | |
| 100 | | 0.0 | | | |



| | A | В | С | D | E | F |
|------------------|-----------------|--------------------|--------------|-------------|--------------------|-----------|
| | 13.0" [330] | 4.4" [112] | 11.2" [284] | 9.7" [246] | 3.7" [95] | 3.7" [95] |
| | Α | В | С | D | E | F |
| | 10.8" [275] | 4.4" [112] | 7.9" [201] | 6.4" [162] | 2.3" [58] | 2.3" [58] |
| ARQB, ARQX | | | | | | |
| | Α | B C | D | E | F H1 | H2 |
| | 9.9" [251] 4.4' | ' [112] 7.8'' [199 |] 6.3" [161] | 2.3" [58] 2 | .3" [58] 0.8" [20] | 0.8" [20] |
| AFRB N4, AFRX N4 | | | | | | |
| | A | В | С | D | E | F |
| | 13.0" [330] | 4.4" [112] | 11.2" [284] | 9.7" [246] | 3.7" [95] | 3.7" [95] |



Technical data sheet

ARX24-PC

Modulating, Non-Spring Return, 24 V, 0 to 20 V Phasecut





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| Electrical data | Nominal voltage | AC/DC 24 V | | | |
|-----------------|------------------------------------|---|--|--|--|
| | Nominal voltage frequency | 50/60 Hz | | | |
| | Power consumption in operation | 3.5 W | | | |
| | Power consumption in rest position | 1.3 W | | | |
| | Transformer sizing | 5.5 VA (class 2 power source) | | | |
| | Electrical Connection | Cable with conduit connector | | | |
| | Overload Protection | electronic thoughout 090° rotation | | | |
| Functional data | Operating range Y | 020 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 | 210 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) | default 90 s, variable 90 or 150 s | | | |
| | Running time motor variable | 90 or 150 s | | | |
| | Noise level, motor | 45 dB(A) | | | |
| | Position indication | Mechanically, pluggable | | | |
| Safety data | Degree of protection IEC/EN | IP54 | | | |
| | Degree of protection NEMA/UL | NEMA 2 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% r.H., non-condensing | | | |
| | Servicing | maintenance-free | | | |
| Weight | Weight | 2.2 lb [1.0 kg] | | | |
| Materials | Housing material | UL94-5VA | | | |

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- NEMA 4X, 316L stainless steel enclosure.
 Battery Back Up System for SV(7~10)-110
 - Battery Back Up System for SY(7~10)-110
 - ZS-300 without brackets. NEMA 4X, 304 stainless steel enclosure.
 - MFT95 resistor kit for 4 to 20 mA control applications.

Electrical installation

X INSTALLATION NOTES

A Provide overload protection and disconnect as required.

 $\sqrt{3}$ Actuators may also be powered by 24 VDC.

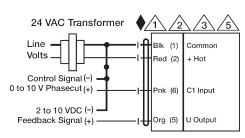
 $\sqrt{5}$ Only connect common to negative (-) leg of control circuits.

 A_{1} 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.



Phasecut Control