







Technical data

г		ona	_	-4-
	ncti	nna	ın	ıara

" [40] lled or hot water, up to 60% glycol 250°F [-18120°C]		
· · · · · · · · · · · · · · · · · · ·		
250°F [-18120°C]		
) psi		
) psi		
ual percentage		
intenance-free		
vay		
for A – AB		
) psi		
ort: as stated in chart B-port: 70% of A – AB Cv		
kel-plated brass body		
EPDM (lubricated)		
NPT female ends		
DM (lubricated)		

Safety notes



Suitable actuators

Materials

Ball

Non-Spring

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

stainless steel

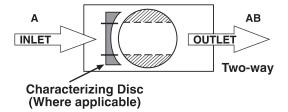
ARB(X) NRQB(X)

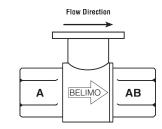
Product features

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.

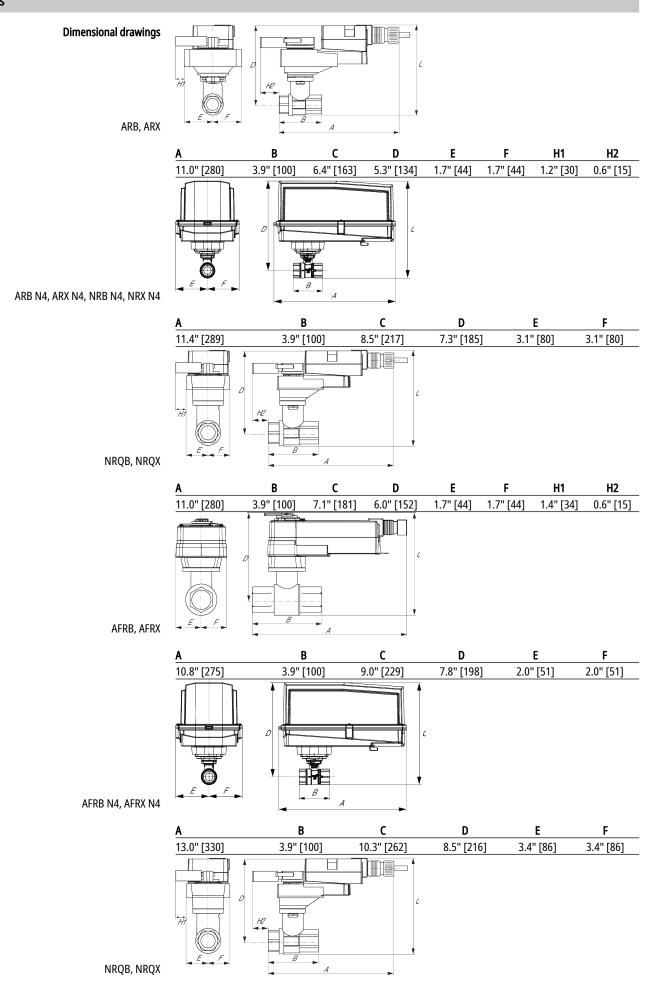
Flow/Mounting details



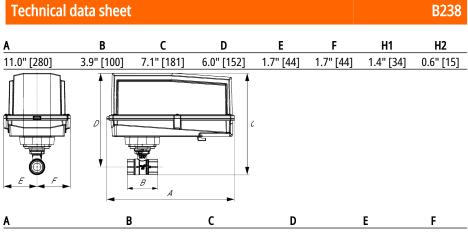




Dimensions







AFRB N4, AFRX N4

A	В	c	D	E	F
13.0" [330]	3.9" [100]	10.3" [262]	8.5" [216]	3.4" [86]	3.4" [86]



On/Off, Floating Point, Non-Spring Return, 24 V







Flectrical data Nominal voltage Nominal voltage frequency Power consumption in operation Power consumption in rest position Transformer sizing Auxiliary switch Switching capacity auxiliary switch Flectrical Connection Electrical Connection Nominal voltage AC/DC 24 V Solo Hz So	50 V uit connector,
Nominal voltage frequency Power consumption in operation Power consumption in rest position Transformer sizing Auxiliary switch Switching capacity auxiliary switch Electrical Connection Tansformer sizing 5.5 VA (class 2 power source) 1 x SPDT, 3 A resistive (0.5 A inductive adjustable 0100% Switching capacity auxiliary switch 18 GA plenum cable with 1/2" condudegree of protection NEMA 2 / IP54, [3 m] and 16ft [5 m]	50 V uit connector,
Power consumption in rest position Transformer sizing 5.5 VA (class 2 power source) Auxiliary switch 1 x SPDT, 3 A resistive (0.5 A inductive) adjustable 0100% Switching capacity auxiliary switch 3 A resistive (0.5 A inductive) @ AC 2.1 Electrical Connection 18 GA plenum cable with 1/2" conductive degree of protection NEMA 2 / IP54, [3 m] and 16ft [5 m]	50 V uit connector,
Power consumption in rest position Transformer sizing 5.5 VA (class 2 power source) Auxiliary switch 1 x SPDT, 3 A resistive (0.5 A inductive adjustable 0100% Switching capacity auxiliary switch 3 A resistive (0.5 A inductive) @ AC 2.1 Electrical Connection 18 GA plenum cable with 1/2" conductive adjustable on the conductive of the conductiv	50 V uit connector,
Auxiliary switch 1 x SPDT, 3 A resistive (0.5 A inductive adjustable 0100% Switching capacity auxiliary switch 3 A resistive (0.5 A inductive) @ AC 2! Electrical Connection 18 GA plenum cable with 1/2" conductive adjustable of protection NEMA 2 / IP54, [3 m] and 16ft [5 m]	50 V uit connector,
adjustable 0100% Switching capacity auxiliary switch Electrical Connection 3 A resistive (0.5 A inductive) @ AC 20 Begree of protection NEMA 2 / IP54, [3 m] and 16ft [5 m]	50 V uit connector,
Electrical Connection 18 GA plenum cable with 1/2" condu degree of protection NEMA 2 / IP54, [3 m] and 16ft [5 m]	uit connector,
degree of protection NEMA 2 / IP54, [3 m] and 16ft [5 m]	
Overload Protection electronic thoughout 090° rotation	. 3 ft [1 m] 10 ft
<u>· · · · · · · · · · · · · · · · · · · </u>	1
Functional data Input Impedance 600Ω	
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 E60730-1:02, CE acc. to 2014/30/EU a EU; Listed to UL 2043 - suitable for us plenums per Section 300.22(c) of the Section 602.2 of the IMC	and 2014/35/ se in air
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 2.4 lb [1.1 kg]	

Safety notes

Technical data sheet ARX24-3-S



- NEMA 4X, 316L stainless steel enclosure.
- Battery Back Up System for SY(7~10)-110
- ZS-300 without brackets.
- Terminal-strip cover for NEMA 2 rating (-T models).
- MFT95 resistor kit for 4 to 20 mA control applications.
- Battery Back Up System for SY(10~12)-220P

Electrical installation

> INSTALLATION NOTES

1 Provide overload protection and disconnect as required.

2\ Actuators may be connected in parallel. Power consumption and input impedance must be observed.

Actuators may also be powered by 24 VDC.

Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.

 $\frac{1}{18}$ Actuators with plenum cable do not have numbers; use color codes instead.

44. One built-in auxiliary switch (1x SPDT), for end position indication, interlock control, fan startup, etc.

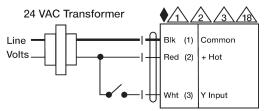
The poly only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or

combined operation of line voltage/safety extra low voltage is not allowed.

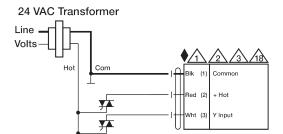
Meets cULus requirements without the need of an electrical ground connection.

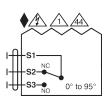
Warning! Live Electrical Components!

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.

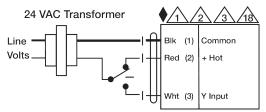


On/Off

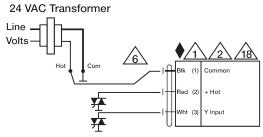




Auxiliary Switches



Floating Point



Floating Point - Triac Sink