







### **Technical data**

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Valve Size	3" [80]
Fluid	chilled or hot water, up to 60% glycol
Fluid Temp Range (water)	0250°F [-18120°C]
Body Pressure Rating	ANSI Class 125, standard class B
Close-off pressure Δps	175 psi
Flow characteristic	equal percentage
Servicing	maintenance-free
Flow Pattern	2-way
Leakage rate	0% for A – AB
Controllable flow range	75°
Cv	110
ANSI Class	125
Body pressure rating note	standard class B
Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv
Valve body	Cast iron - GG 25
Stem seal	EPDM (lubricated)
Seat	PTFE
Pipe connection	pattern to mate with ANSI 125 flange
O-ring	EPDM (lubricated)
Ball	stainless steel
Non-Spring	ARB(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

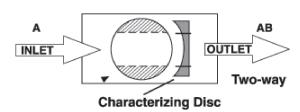
# **Product features**

### **Application**

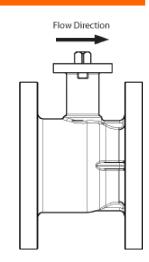
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.



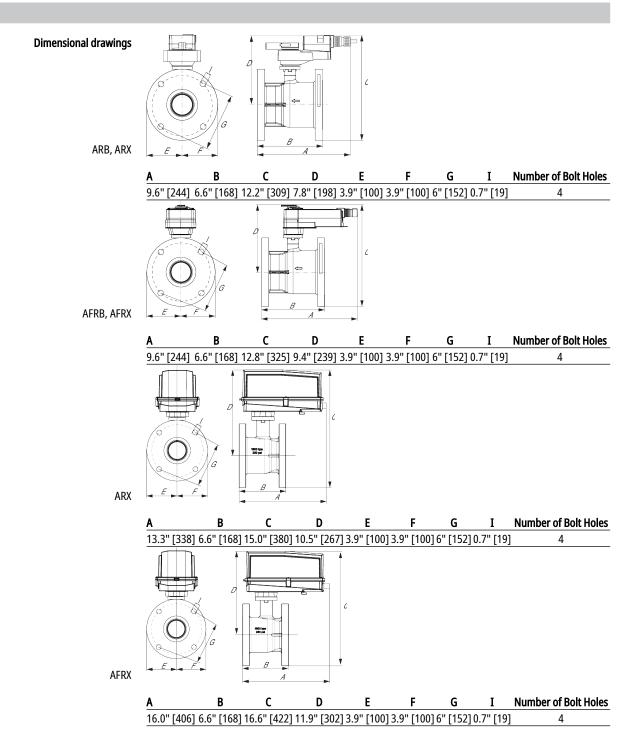
### Flow/Mounting details



Upstream A Downstream AB

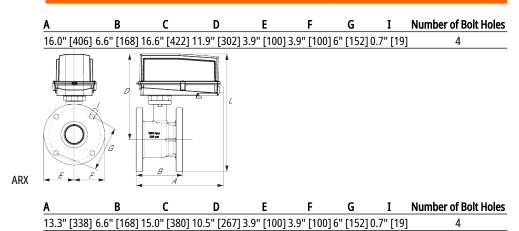


### **Dimensions**





Technical data sheet B6300S-110





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







Electrical data  Nominal voltage Nominal voltage frequency Power consumption in operation Power consumption in rest position Transformer sizing Ac/DC 24 V  Power consumption in operation D.5 W  Transformer sizing Transformer sizing Auxiliary switch Tx SPDT, 3 A resistive (0.5 A inductive adjustable 0100%  Switching capacity auxiliary switch Acceptable 0100% Switching capacity auxiliary switch Electrical Connection Bay GA plenum cable with 1/2" conductive of gree of protection NEMA 2 / IP54, [3 m] and 16ft [5 m]  Overload Protection electronic thoughout 090° rotation	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,	
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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	
<b>Functional data</b> Input Impedance $600 \Omega$		
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)	45 dB(A)	
Position indication Mechanically, pluggable	Mechanically, pluggable	
Safety data Degree of protection IEC/EN IP54		
Degree of protection NEMA/UL NEMA 2 UL Enclosure Type 2	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	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.

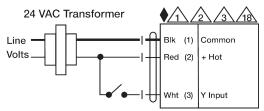
The poly only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or

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

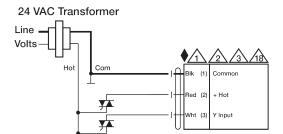
Meets cULus requirements without the need of an electrical ground connection.

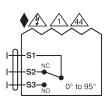
#### **Warning! Live Electrical Components!**

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.

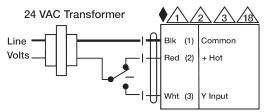


On/Off

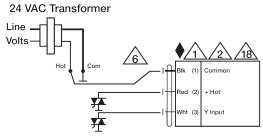




**Auxiliary Switches** 



Floating Point



Floating Point - Triac Sink