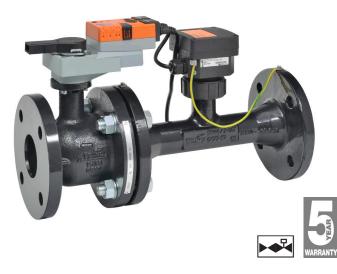
# P6250S-105, 2-1/2", Electronic Pressure Independent Valve Stainless Steel Ball, ANSI 125 Flange





hot water, up to 60% glycol max b/steam not allowed) entage or linear
,
mate with ansi 125 flange
GG25
n - GGG50
teel
teel
TFE
teel
-rings, lubricated
standard class B
0°F [-10°C to 120°C]
id, 1 to 50 psid (with flow
See chart.), or 8 to 50 psid (with
ase. See chart.)
al pipe size (NPS)
non-condensing
in controlling
gnetic
11616
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powered by the actuator
powered by the actuator
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#### Application

Water-side control of heating and cooling systems for AHUs and water coils. Equal Percentage/ Linear: heating and cooling applications.

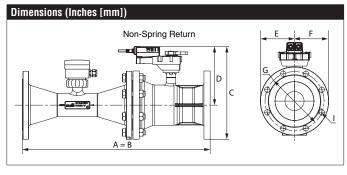
#### Operation

The Electronic Pressure Independent Control Valve is a two-way valve that maintains constant flow regardless of pressure variations in the system.

#### **Product Features**

Provides constant flow regardless of pressure variations in the system. Maximizes chiller P, preventing energizing additional chillers due to low T. Simplified valve sizing and selection, no Cv calculations required.

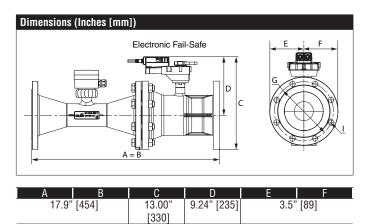
Suitable Actuators							
	Non-Spring	Electronic Fail-Safe					
P6250S-105	ARB(X)	AKRX					



A B	C	D	E	F	G	
17.9" [454]	10.82"	7.18"	3.5"	[89]	5.5"	0.75"
	[275]	[182]			[140]	[19]

\*All flow tolerances are at 68°F (20°C) & water.









Power Supply 24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%   Power Consumption Running 8 W   Transformer Sizing 16 VA (class 2 power source)   Electrical Connection 3ft [1m], 18 GA plenum cable with 1/2" conduit connector   Overload Protection electronic thoughout 0° to 90° rotation   Operating Range Y 2 to 10 VDC (default) VDC variable	
Transformer Sizing   16 VA (class 2 power source)     Electrical Connection   3ft [1m], 18 GA plenum cable with 1/2" conduit connector     Overload Protection   electronic thoughout 0° to 90° rotation	
Electrical Connection   3ft [1m], 18 GA plenum cable with 1/2" conduit connector     Overload Protection   electronic thoughout 0° to 90° rotation	
conduit connector     Overload Protection   electronic thoughout 0° to 90° rotation	
Operating Bange V 2 to 10 VDC (default) VDC variable	
Input Impedance 100 k $\Omega$ (0.1 mA), 500 $\Omega$	
Feedback Output U 2 to 10 VDC (default) VDC variable	
Direction of Rotation (Motor) reversible with pc tool	
Direction of Rotation (Fail-Safe) reversible with switch	
Manual Override external push button	
Running Time (Motor) 90 sec	
Running Time (Fail-Safe) 35 sec	
Ambient Humidity 5 to 95% RH non condensing (EN 60730	-1)
Ambient Temperature Range -22°F to 122°F [-30°C to 50°C]	
Storage Temperature Range -40°F to 176°F [-40°C to 80°C]	
Housing NEMA 2, IP54, UL Enclosure Type 2	
Housing Material UL94-5VA	
Agency Listings† cULus acc. to UL60730-1A/-2-14, CAN/C E60730-1:02, CE acc. to 2004/108/EC an 2006/95/EC	
Noise Level (Motor) max. 45 dB (A)	
Servicing maintenance free	
Quality Standard ISO 9001	
Weight 3.3 lb [1.5 kg]	

In cases where the valve body is electrically isolated from the water pipe, an earth ground should be installed in order for the sensor to work properly. Earth ground can be connected directly on the sensor body. A connection point is provided on the flange of the sensor body.

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



/2

 $\sqrt{3}$ 

/18

 $\wedge$ 

### AKRX24-PI

## Wiring Diagrams

Provide overload protection and disconnect as required.

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

Actuators may also be powered by 24 VDC.

Actuators with plenum cable do not have numbers; use color codes instead.

21 IN4004 or IN4007 diode required

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.

