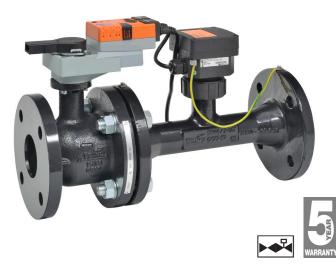
P6250S-115, 2-1/2", Electronic Pressure Independent Valve Stainless Steel Ball, ANSI 125 Flange





Technical Data	abilled as betweeter up to COU/ shired area				
Service	chilled or hot water, up to 60% glycol max				
Flow Characteristic	(open loop/steam not allowed) equal percentage or linear				
Size [mm]	2.5" [65]				
End Fitting	pattern to mate with ansi 125 flange				
0					
Body Sensor Housing	cast iron - GG25 ductile iron - GGG50				
3	440400				
Ball	stainless steel				
Stem	stainless steel				
Seat	Teflon® PTFE				
Seat O-ring	Viton				
Characterized Disc	stainless steel				
Packing	2 EPDM O-rings, lubricated				
Body Pressure Rating [psi]	ANSI 125, standard class B				
Media Temperature Range (Water)	14°F to 250°F [-10°C to 120°C]				
Differential Pressure Range	5 to 50 psid, 1 to 50 psid (with flow				
	reduction. See chart.), or 8 to 50 psid (with				
	flow increase. See chart.)				
Close-Off Pressure	100 psi				
Inlet Length to Meet Specified	5X nominal pipe size (NPS)				
Measurement Accuracy	(05%) DH pop condensing				
Ambient Humidity Flow Measurement Tolerance	<95% RH non-condensing				
	== /*				
Flow Control Tolerance	±5%				
Flow Measurement Repeatability	±0.5%				
Sensor Technology	electromagnetic				
Rangeability	40:1				
Power Supply for the Flow Sensor	sensor is powered by the actuator				
Weight	49.6 lb [22.5 kg]				
GPM	115				
Leakage	0%				
	•				

Application

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

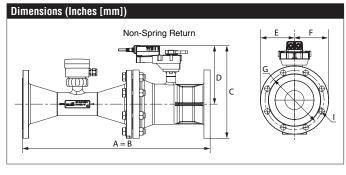
Operation

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-115	ARB(X)	AKRX				



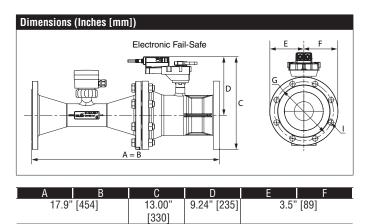
A B	С	D	E	F	G	
17.9" [454]	10.82"	7.18"	3.5"	[89]	5.5"	0.75"
	[275]	[182]			[140]	[19]

Date created, 10/03/2017 - Subject to change.

Belimo Aircontrols (USA), Inc.

*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	
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conduit connector Overload Protection electronic thoughout 0° to 90° rotation	
Operating Bange V 2 to 10 VDC (default) VDC variable	
Input Impedance 100 k Ω (0.1 mA), 500 Ω	
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.

