# P6500S-335, 5", Electronic Pressure Independent Valve Stainless Steel Ball, ANSI 125 Flange





Technical Data			
Service	chilled or hot water, up to 60% glycol max		
	(open loop/steam not allowed)		
Flow Characteristic	equal percentage or linear		
Size [mm]	5" [125]		
End Fitting	pattern to mate with ansi 125 flange		
Body	cast iron - GG25		
Sensor Housing	ductile iron - GGG50		
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		
<u> </u>	flow increase. See chart.)		
Close-Off Pressure	100 psi		
Inlet Length to Meet Specified	5X nominal pipe size (NPS)		
Measurement Accuracy Ambient Humidity	<95% RH non-condensing		
Flow Measurement Tolerance	+2%*		
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	117.3 lb [53.2 kg]		
GPM	335		
Leakage	0%		
LEANAYE	0 /0		

### Application

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

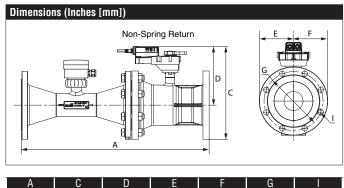
#### Operation

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.

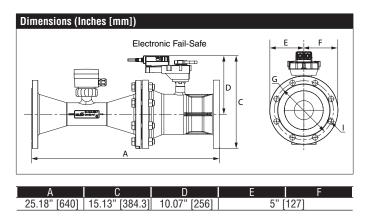
Suitable Actuators				
	Non-Spring	Electronic Fail-Safe		
P6500S-335	GRB(X)	GKRB(X)		



A	С	D	E	F	G	
25.18"	14.42"	9.42"	5" [	127]	8.5" [216]	0.88" [22]
[640]	[366]	[239]	-			

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







Technical Data	
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
Power Consumption Running	9.5 W
Transformer Sizing	13 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
Input Impedance	100 kΩ (0.1 mA), 500 Ω
Feedback Output U	2 to 10 VDC (default) VDC variable
Angle of Rotation	90°
Nominal torque	Min. 360 in-lbs [40 Nm]
Direction of Rotation (Motor)	reversible with pc tool
Direction of Rotation (Fail-Safe)	reversible with switch
Position Indication	integrated into handle
Manual Override	external push button
Ambient Humidity	5 to 95% RH non condensing (EN 60730-1)
Ambient Temperature Range	14°F to 122°F [-10°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/CSA
	E60730-1:02, CE acc. to 2004/108/EC and
	2006/95/EC
Noise Level (Motor)	<45 dB (A)
Servicing	maintenance free
Quality Standard	ISO 9001
Weight	4.85 lb [2.2 kg]
Degree of Protection IEC/EN	IP54

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

# GRX24-PI-MOD

## Wiring Diagrams

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## 🔀 INSTALLATION NOTES

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.

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.

