P6300S-180-250, 3", ANSI 250 Electronic Pressure Independent Valve Cast Iron Body, Stainless Steel Trim







Servicechilled or hot water, up to 60% glycol max (open loop/steam not allowed)Flow Characteristicequal percentage or linearControllable Flow Rangestem up - open A to ABGPM Range54-180Size [mm]3" [80]End Fitting250 lb flangedBodycast iron - ASTM A126 Class BSensor Housingductile iron - GGG50Stem316 stainless steelStem PackingNLP EPDM (no lip packing)Seat316 stainless steelPlugstainless steelBody Pressure Rating [psi]ANSI 250Number of Bolt Holes8Max Inlet Pressure (Water)300 psi (2068 kPa) @ 250°F [121°C]Media Temperature Range14°F to 250°F [-10°C to 120°C](Water)50 psi (345 kPa)Differential Pressure Range7.5 to 50 psid or 1 to 50 psid with flow reductionsMax Differential Pressure (Water)50 psi (345 kPa)Close-Off Pressure310 psiInlet Length to Meet Specified Measurement Accuracy5X nominal pipe size (NPS)Flow Measurement Repeatability±0.5%Flow Measurement Repeatability±0.5%Sensor TechnologyelectromagneticWeight139 lb [63 kg]Manual Override5 mm hex crank (3/16" Allen), suppliedQuality StandardISO 9001LeakageANSI Class IV	Technical Data			
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Close-Off Pressure 310 psi Inlet Length to Meet Specified 5X nominal pipe size (NPS) Measurement Accuracy 5X Flow Measurement Tolerance ±2%* Flow Control Tolerance ±5% Flow Measurement Repeatability ±0.5% Sensor Technology electromagnetic Weight 139 lb [63 kg] Manual Override 5 mm hex crank (3/16" Allen), supplied Quality Standard ISO 9001 Leakage ANSI Class IV	Max Differential Pressure (Water)	50 psi (345 kPa)		
Measurement Accuracy Flow Measurement Tolerance ±2%* Flow Control Tolerance ±5% Flow Measurement Repeatability ±0.5% Sensor Technology electromagnetic Weight 139 lb [63 kg] Manual Override 5 mm hex crank (3/16" Allen), supplied Quality Standard ISO 9001 Leakage ANSI Class IV	Close-Off Pressure			
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Flow Measurement Repeatability±0.5%Sensor TechnologyelectromagneticWeight139 lb [63 kg]Manual Override5 mm hex crank (3/16" Allen), suppliedQuality StandardISO 9001LeakageANSI Class IV	Flow Measurement Tolerance	±2%*		
Sensor TechnologyelectromagneticWeight139 lb [63 kg]Manual Override5 mm hex crank (3/16" Allen), suppliedQuality StandardISO 9001LeakageANSI Class IV	Flow Control Tolerance	±5%		
Sensor TechnologyelectromagneticWeight139 lb [63 kg]Manual Override5 mm hex crank (3/16" Allen), suppliedQuality StandardISO 9001LeakageANSI Class IV	Flow Measurement Repeatability	±0.5%		
Weight139 lb [63 kg]Manual Override5 mm hex crank (3/16" Allen), suppliedQuality StandardISO 9001LeakageANSI Class IV	Sensor Technology	electromagnetic		
Quality Standard ISO 9001 Leakage ANSI Class IV	Weight	139 lb [63 kg]		
Quality Standard ISO 9001 Leakage ANSI Class IV	Manual Override	5 mm hex crank (3/16" Allen), supplied		
Leakage ANSI Class IV	Quality Standard			
5	Leakage	ANSI Class IV		
	Servicing	Repack/Rebuild kits available		

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

Application

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

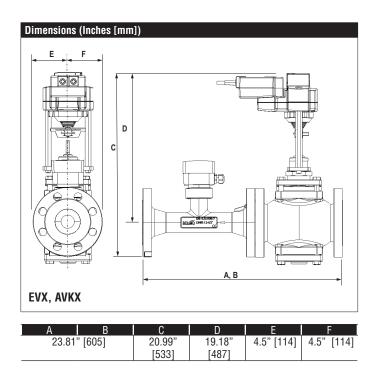
Operation

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
P6300S-180-250	EVX	AVKX

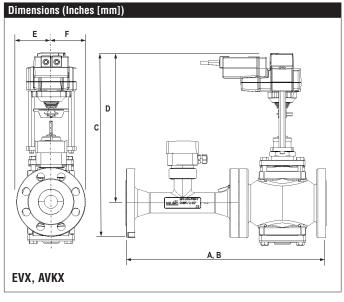


Piping

The valves should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. The preferred mounting position of the valve is with the valve stem vertical above the valve body, for maximum life. However, the assemblies can be mounted with valve stem vertical above the valve or up to 45 degrees in relation to the horizontal pipe. The actuators should never be mounted underneath the valve, as condensation can build up and result in a failure of the actuators. Do not reverse flow direction.



P6300S-180-250, 3", ANSI 250 Electronic Pressure Independent Valve Cast Iron Body, Stainless Steel Trim



A	В	С	D	E	F
23.81	" [605]	20.99"	19.18"	4.5" [114]	4.5" [114]
		[533]	[487]		





Technical Data		
Power Supply	24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%	
Power Consumption Running	5 W	
Power Consumption Holding	2 W	
Transformer Sizing	9.5 VA (class 2 power source)	
Electrical Connection	3ft [1m], 18 GA plenum cable with 1/2"	
	conduit connector	
Overload Protection	electronic throughout full stroke	
Electrical Protection	actuators are double insulated	
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	
Stroke	0.75" [19 mm]	
Direction of Rotation (Motor)	reversible with switch	
Direction of Rotation (Fail-Safe)	reversible with switch	
Position Indication	stroke indicator on bracket	
Manual Override	5 mm hex crank (3/16" Allen), supplied	
Running Time (Motor)	90 sec, constant independent of load	
Running Time (Fail-Safe)	35 sec	
Bridge Time	2 sec delay before fail-safe activates	
Pre-charging Time	5 to 20 seconds	
Humidity	5 to 95% RH non-condensing	
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	Aluminum die cast and plastic casing	
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)	<60 dB (A)	
Noise Level (Fail-Safe)	<60 dB (A)	
Servicing	maintenance free	
Quality Standard	ISO 9001	
Weight	6.4 lb [2.9 kg]	

† Use flexible metal conduit. Push the listed conduit fitting device over the actuator's cable to butt against the enclosure. Screw in conduit connector. Jacket the actuators input wiring with listed flexible conduit. Properly terminate the conduit in a suitable junction box. Rated impulse Voltage 800V. Type of action 1. Control pollution degree 3.

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.



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.

A 500 Ω resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 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.

