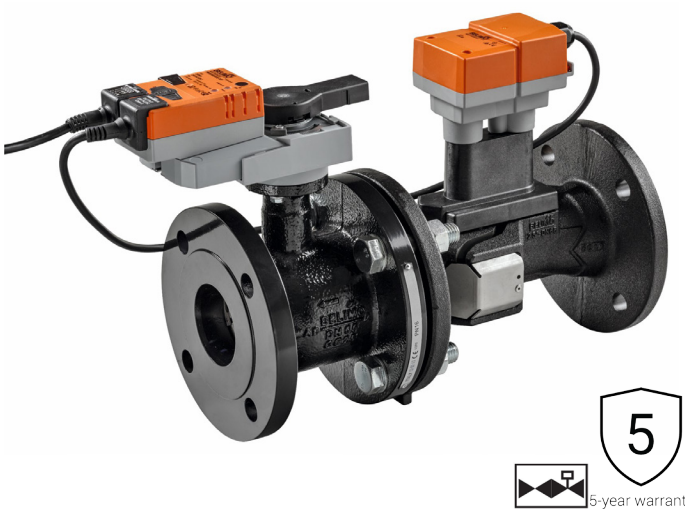
P6500SU-495 Technical Data Sheet



5-year warranty

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 Delta T, preventing energizing additional chillers due to low Delta T. Simplified valve sizing and selection, no Cv calculations required.

Suitable Actuators

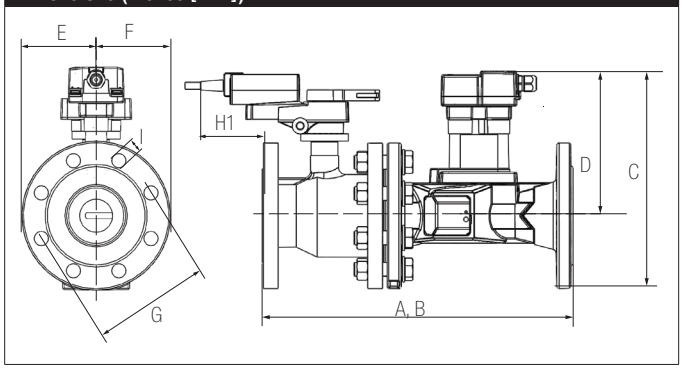
	Non-Spring	Electronic fail-safe
P6500SU-495	GRB(X)	GKRB(X)

Technical Data

Fluid	chilled or hot water, up to 60% glycol max (open loop/steam not allowed)
Flow characteristic	equal percentage or linear
Valve Size [mm]	5" [125]
Pipe connector	pattern to mate with ANSI 125 flange
Housing	Cast iron - GG 25
Flow measuring pipe	Ductile cast iron - GGG50
Ball	stainless steel
Stem	stainless steel
Stem seal	EPDM (lubricated)
Seat	PTFE
O-ring	Viton
Characterized disc	stainless steel
Package	EPDM
Body Pressure Rating	ANSI Class 125, standard class B
ANSI Class	125
Number of Bolt Holes	8
Differential Pressure Range	5...50 psi or 1...50 psi see flow reductions chart in tech doc
Close-off pressure Δps	175 psi
Ambient temperature	-22...122°F [-30...50°C]
Inlet Length to Meet Specified Measurement Accuracy	5X nominal pipe size (NPS)
Ambient humidity	max. 95% r.H., non-condensing
Measuring accuracy flow	±2%*
Control accuracy	±5%
Flow Measurement Repeatability	±0.5%
Sensor Technology	ultrasonic with glycol and temperature compensation
Rangeability Sv	100:1
Power supply for the flow sensor	sensor is powered by the actuator
Weight	138.9 lb [63 kg]
GPM	495
Fluid Temp Range (water)	14...250°F [-10...120°C]
Leakage rate	0%

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

Dimensions (Inches [mm])



A	B	C	D	E	F	G	H1	I
22.8" [579]		14.4" [366]	9.4" [239]	5.0" [127]		8.5" [216]	0.8" [20]	0.7" [19]