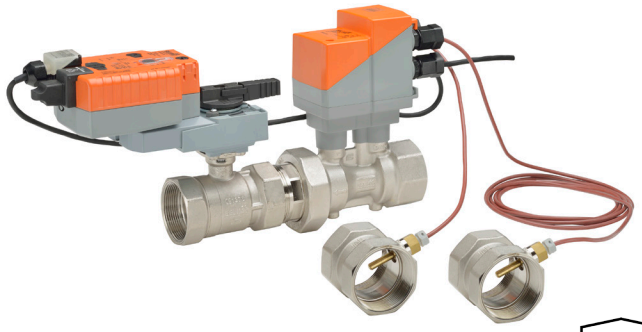
EV125S-285 Technical Data Sheet
Stainless Steel Ball and Stem, Female NPT Ends



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 Energy Valve is an energy metering pressure independent control valve that measures, documents and optimises water coil performance.

Product Features
The Energy Valve measures energy using its built-in electronic flow sensor and supply and return temperature sensors. Controls power with its power control logic providing linear heat transfer regardless of temperature and pressure variations. Manages low delta-T with its built in Delta-T manager. Measures glycol with advanced algorithms in its built in flow sensor. An IoT device utilising cloud-based technology to optimise performance.

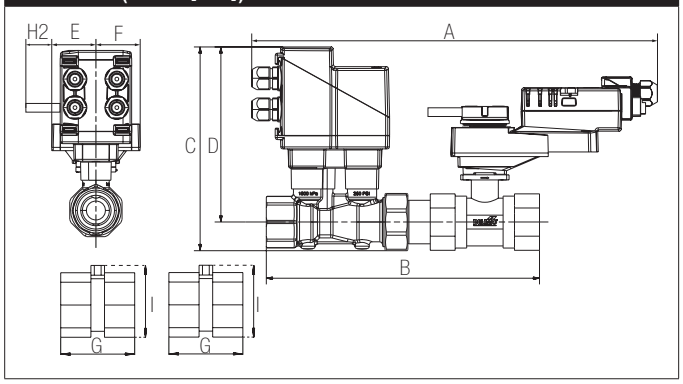
Suitable Actuators

	Non-Spring	Electronic fail-safe
EV125S-285	NRB(X)	(AKRB(X))

Technical Data	
Fluid	chilled or hot water, up to 60% glycol max (open loop/steam not allowed)
Flow characteristic	equal percentage or linear
GPM Range	8.6-28.5
Valve Size [mm]	1.25" [32]
Pipe connection	NPT female ends
Housing	Nickel-plated brass body
Flow measuring pipe	brass body nickel-plated
Ball	stainless steel
Stem	stainless steel
Stem seal	EPDM (lubricated)
Seat	PTFE
O-ring	EPDM
Characterized disc	TEFZEL®
Body Pressure Rating	360 psi
Differential Pressure Range	5...50 psi or 1...50 psi see flow reductions chart in tech doc
Close-off pressure Δps	200 psi
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
Temperature Sensors	Pt1000 insertion sensors w/NPT body
Temperature Measurement Tolerance	According to Pt1000 DIN EN60751 Class B
Resolution of Temperature Sensor	0.18°F [0.1°C]
Rated impulse voltage supply	actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV
Rangeability Sv	100:1
Degree of Protection	NEMA 1, UL Enclosure Type 1
Weight	8.4 lb [3.8 kg]
Remote Temperature Sensor Length	Standard: 2 ft. 7.5 in. [0.8m], 9.8 ft. [3m]
Fluid Temp Range (water)	14...250°F [-10...120°C]
Leakage rate	0%
Glycol Measurement Accuracy	±5%

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

Dimensions (Inches [mm])



A	B	C	D	E	F	G	H2	I
16.5" [420]	10.0" [254]	7.5" [191]	6.6" [168]	1.7" [44]		2.8" [70]	0.8" [20]	3.4" [86]

Safety Notes
WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov