

Electronic Pressure Independent Valve, 2-way, Flange, (EPIV)

- Nominal voltage AC/DC 24 V
- Control communicative
- Communication via BACnet MS/TP, Modbus RTU, Belimo-MP-Bus or conventional control
- Conversion of active sensor signals and switching contacts



Technical data sheet



5-year warranty







echnical data			
Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	9.5 W	
Functional data	Valve Size	6" [150]	
	Communicative control	BACnet MS/TP MP-Bus Modbus RTU	
	Operating range Y	210 V	
	Operating range Y note	Hybrid via 210 V	
	Input Impedance	100 kΩ (0.1 mA), 500 Ω	
	Options positioning signal	VDC variable	
	Position feedback U	210 V	
	Position feedback U variable	VDC variable	
	Running Time (Motor)	90 s	
	Noise level, Motor	45 dB(A)	
	Control accuracy	±5%	
	Min. controllable flow	1% of V'nom	
	Fluid	chilled or hot water, up to 60% glycol max (open loop/steam not allowed)	
	Fluid Temp Range (water)	14250°F [-10120°C]	
	Close-off pressure Δps	175 psi	
	Differential Pressure Range	550 psi or 150 psi see flow reductions char in tech doc	
	GPM	713	
	Servicing	maintenance-free	
	Manual override	external push button	
Flow measurement	Measuring accuracy flow	±2%*	
	Flow Measurement Repeatability	±0.5%	
	Sensor Technology	ultrasonic with glycol and temperature compensation	
Safety data	Degree of protection IEC/EN	IP54	
	Degree of protection NEMA/UL	NEMA 2	
	Enclosure	UL Enclosure Type 2	



	Technical data sheet	P6600SU-713+GRX24-EP2-MOD
Safety data	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC
	Quality Standard	ISO 9001
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	Max. 95% RH, non-condensing
Materials	Valve body	Cast iron - GG 25
	Flow measuring pipe	Ductile cast iron - GGG50
	Spindle	stainless steel
	Spindle seal	EPDM (lubricated)
	Characterized disc	stainless steel
	Seat	PTFE
	Pipe connection	pattern to mate with ANSI 125 flange
	O-ring	EPDM (lubricated)
	Ball	stainless steel

Safety notes



- This device has been designed for use in stationary heating, ventilation and air-conditioning
 systems and must not be used outside the specified field of application, especially in aircraft or
 in any other airborne means of transport.
- Outdoor application: only possible in case that no (sea) water, snow, ice, insolation or
 aggressive gases interfere directly with the actuator and that is ensured that the ambient
 conditions remain at any time within the thresholds according to the data sheet.
- Only authorized specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

Flow measurement

*All flow tolerances are at 68°F [20°C] & water.

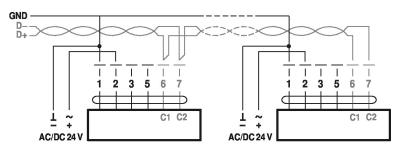
Accessories

Electrical accessories	Description	Туре
	Replacement flow sensor for EPIV, electromagnetic	EPIVFS-60
	Service Tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US
Mechanical accessories	Description	Туре
	Weather shield for Belimo Energy Valve™, 100150, Ultrasonic models only	ZS-EPIV-EV-150U

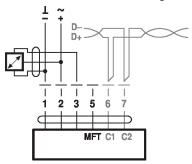


Electrical installation

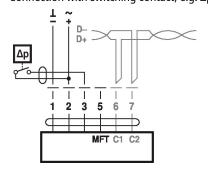
BACnet MS/TP / Modbus RTU



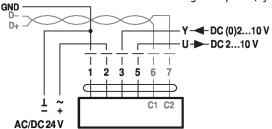
Connection with active sensor, e.g. 0...10 V @ 0...50°C



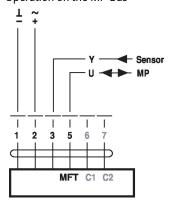
Connection with switching contact, e.g. Δp monitor



Modbus RTU / BACnet MS/TP with analogue setpoint (hybrid mode)



Operation on the MP-Bus



Cable colors:

1= black

2 = red

3 = white

5 = orange

6 = pink

7 = grey

BACnet / Modbus signal

assignment:

C1 = D - = A

C2 = D+ = B

Possible voltage range: 0...32 V (resolution 30 mV)

Requirements for switching contact:

The switching contact must be able to accurately switch a current of 16 mA @ 24 V.



Dimensions

Dimensional drawings

