

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









Геchnical data		
Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	9.5 W
	Transformer sizing	13 VA
Data bus communication	Communicative control	BACnet MS/TP
		MP-Bus
		Modbus RTU
Functional data	Valve size [mm]	6" [150]
	Operating range Y	210 V
	Operating range Y note	Hybrid via 210 V
	Input Impedance	100 kΩ (0.1 mA), 500 Ω
	Operating modes optional	VDC variable
	Position feedback U	210 V
	Position feedback U variable	VDC variable
	Running Time (Motor)	90 s
	Sound power 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
	Flow characteristic	equal percentage or linear
	Body Pressure Rating	ANSI Class 125, standard class B, flat-face
	GPM	713
	Servicing	maintenance-free
	Manual override	external push button
Flow measurement	Measuring accuracy flow	±2%*
	Measurement Repeatability	±0.5% (Flow)
	Sensor Technology	Ultrasonic with glycol and temperature compensation
Safety data	Power source UL	Class 2 Supply



	Technical data sheet	P6600SU-713+GRX24-EP2-MOD
Safety data	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02
		CE acc. to 2014/30/EU and 2014/35/EU
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
Materials	Valve body	Cast iron - GG 25
	Flow measuring pipe	Ductile cast iron - GGG50
	Stem	stainless steel
	Stem 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.

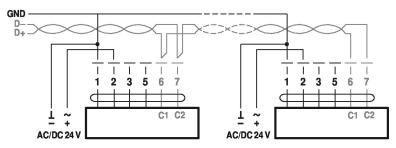
Accessories

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

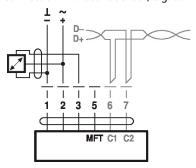


Electrical installation

BACnet MS/TP / Modbus RTU

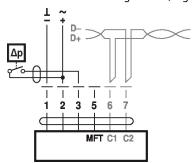


Connection with active sensor, e.g. 0...10 V @ 0...50°C



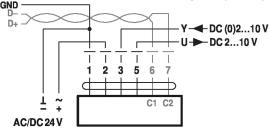
Possible voltage range: 0...32 V (resolution 30 mV)

Connection with switching contact, e.g. Δp monitor

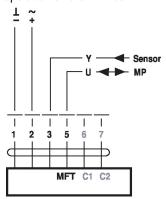


Requirements for switching contact:
The switching contact must be able to accurately switch a current of 16 mA @ 24 V.

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



Dimensions

Dimensional drawings

