Date created, 09/13/2018 - Subject to change. © Belimo Aircontrols (USA), Inc.

P2075S-080, 3/4", Electronic Pressure Independent Valve Stainless Steel Ball and Stem, Female NPT Ends





Technical Data	
Service	chilled or hot water, up to 60% glycol max
Flow Characteristic	(open loop/steam not allowed)
	equal percentage or linear
Valve Size	0.75 " [20]
End Fitting	NPT female ends
Body	forged brass, nickel plated
Sensor Housing	forged brass, nickel plated
Ball	stainless steel
Stem	stainless steel
Seat	Teflon® PTFE
Seat O-ring	EPDM
Characterized Disc	TEFZEL® or stainless steel
Body Pressure Rating	360 psi
Media Temperature Range (Water)	14°F to 250°F [-10°C to 120°C]
Differential Pressure Range	5 to 50 psid, 1 to 50 psid (with flow
,	reduction. See chart.), or 8 to 50 psid (with
	flow increase. See chart.)
Close-Off Pressure	200 psi
Inlet Length to Meet Specified Measurement Accuracy	5X nominal pipe size (NPS)
Ambient Humidity	<95% RH non-condensing
Flow Measurement Tolerance	±2%*
Flow Control Tolerance	±5%
Flow Measurement Repeatability	±0.5%
Sensor Technology	ultrasonic with glycol and temperature
	compensation
Rangeability	100:1
Power Supply for the Flow Sensor	sensor is powered by the actuator
Weight	4 lb [1.8 kg]
GPM	8
Leakage	0%

^{*}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

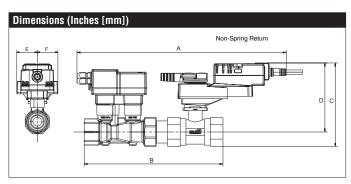
The Electronic Pressure Independent Control Valve is a two-way valve that maintains constant flow regardless of pressure variations in the system.

Product Features

Provides constant flow regardless of pressure variations in the system. $\label{eq:maximizes} \mbox{ Maximizes chiller P, preventing energizing additional chillers due to low \ T.}$ Simplified valve sizing and selection, no Cv calculations required.

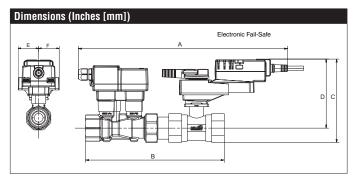
Suitable Actuators

	Gartable Hetaatere				
		Non-Spring	US only		
	P2075S-080	LR	4349		



Α	В	C	D	Е	F
14.83" [377]	8" [203]	5.57" [141]	4.92" [125]	1.55" [39]	

P2075S-080, 3/4", Electronic Pressure Independent Valve Stainless Steel Ball and Stem, Female NPT Ends



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1	Α	В	С	D	Е	F
	16.63"	8" [203]	8.11" [195]	7.06" [179]	1.89	" [48]
	[422]					





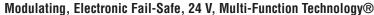




24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%		
6 W		
12 VA (class 2 power source)		
3ft [1m], 18 GA plenum cable with 1/2"		
conduit connector		
electronic thoughout 0° to 90° rotation		
2 to 10 VDC (default) VDC variable		
100 kΩ (0.1 mA), 500 Ω		
default DC 210 V, VDC variable		
90°		
180 in-lbs [20 Nm]		
reversible with pc tool		
reversible with switch		
integrated into handle		
external push button		
90 sec		
<35 sec		
5 to 95% RH non condensing (EN 60730-1)		
-22122 °F [-3050 °C]		
-40176 °F [-4080 °C]		
IP54, NEMA 2		
UL94-5VA		
cULus acc. to UL60730-1A/-2-14, CAN/CSA		
E60730-1:02, CE acc. to 2004/108/EC and		
2006/95/EC		
max. 45 dB (A)		
maintenance free		
ISO 9001		
3.3 lb [1.5 kg]		

†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3







Wiring Diagrams



X 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.



Actuators with plenum cable do not have numbers; use color codes instead.



IN4004 or IN4007 diode required



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.

