



5-year warranty



Technical data

<b>Functional data</b>	Valve Size	0.75" [20]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	43...180°F [6...82°C]
	Body Pressure Rating	232 psi
	Close-off pressure Δps	50 psi
	Flow characteristic	linear
	Servicing	maintenance-free
	Flow Pattern	6-way
	Leakage rate	0%
	Controllable flow range	sequence 1 (angle 0...30°), dead zone (30...60°), sequence 2 (angle 60...90°)
	Seq 1 Cv	2.9
	Seq 2 Cv	0.73
	<b>Materials</b>	Valve body
Spindle		nickel-plated brass
Spindle seal		EPDM (lubricated)
Seat		PTFE
Characterized disc		chrome plated steel
Pipe connection		NPT female ends
O-ring		EPDM
Ball		chrome plated brass

Product features

- Application** The 6-way characterized control valve is ideal for chilled beams, radiant ceilings, and fan coil units offering reduced wiring by using a single actuator instead of two. It eliminates the need for a change-over valve and enables the use of a single coil for heating and cooling.
- Operation** A loop pressure relief is designed into port number two (2). This allows the increased pressure to dissipate to the supply loop on port number one (1). This is intended to release any pressure build up in the loop (coil) when the valve is in the closed position and is isolated from the system expansion vessel. The change in pressure occurs due to a change in the media temperature in the coil while isolated from the pressure vessel. The pressure relief does not affect the efficiency of the system because cross-flow cannot occur between the heating and cooling loops. The system loops (heating/cooling) should share a common expansion vessel to keep the system pressure and volume balanced.

Flow/Mounting details



Accessories

Mechanical accessories	Description	Type
	Fixing bracket for 6-way valve DN 15/20	ZR-004

Dimensions



A	B	C	D	E	F	G	H1	H2
7.5" [191]	3.9" [100]	9.0" [229]	7.6" [194]	2.0" [51]	2.0" [51]	2.4" [60]	1.2" [30]	0.6" [15]



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## Technical data

<b>Electrical data</b>	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	1.5 W
	Power consumption in rest position	0.4 W
	Power consumption for wire sizing	3 VA
	Transformer sizing	3 VA (class 2 power source)
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector
	Overload Protection	electronic throughout 0...90° rotation
<b>Functional data</b>	Operating range Y	2...10 V
	Operating range Y note	4...20 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
	Input Impedance	100 kΩ for 2...10 V (0.1 mA), 500 Ω for 4...20 mA
	Position feedback U	2...10 V
	Position feedback U note	Max. 1 mA
	Direction of motion motor	selectable with switch 0/1
	Manual override	external push button
	Angle of rotation	90°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	90 s / 90°
	Noise level, motor	35 dB(A)
	Position indication	Mechanically, pluggable
<b>Safety data</b>	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 Listed to UL 2043 - suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Quality Standard	ISO 9001
	Ambient temperature	-22...122°F [-30...50°C]
	Storage temperature	-40...176°F [-40...80°C]
	Ambient humidity	Max. 95% RH, non-condensing
	Servicing	maintenance-free
	<b>Materials</b>	Housing material

**Footnotes** †Rated Impulse Voltage 800V, Type action 1.B, Control Pollution Degree 3.

