

B320-490-400

Chrome Plated Brass Ball and Nickel Plated Stem, 3/4", NPT Female Ends







Technical data

Functional data	Valve Size	0.75" [20]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	43180°F [682°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 030°), dead zone (3060°), sequence 2 (angle 6090°)
	Seq 1 Cv	4.9
	Seq 2 Cv	4
Materials	Valve body	Nickel-plated brass 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

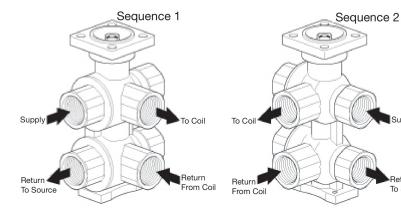
Product features

ApplicationThe 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

Fixing bracket for 6-way valve DN 15/20

Description

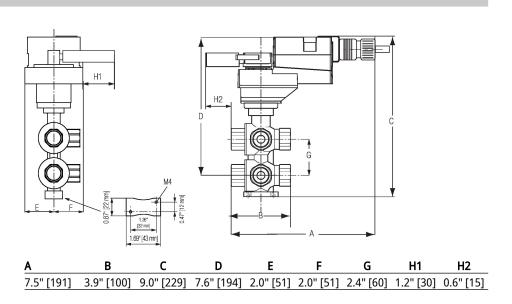
Type ZR-004

Supply

Return

To Source

Dimensions





LRX24-MFT

Modulating, Non-Spring Return, 24 V, Multi-Function Technology®





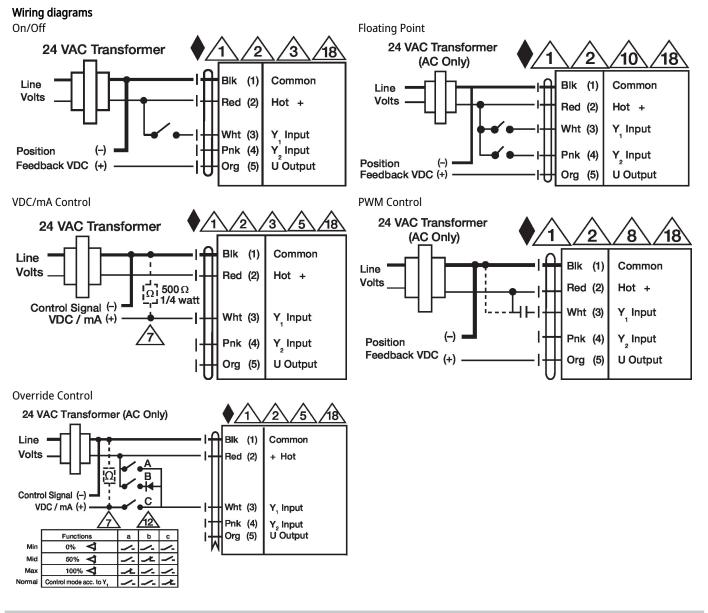
Technical data

Still from the second secon	Electrical data	Nominal voltage	AC/DC 24 V
Power consumption in rest position 1.2 W Transformer sizing 5 VA (class 2 power source) Electrical Connection 18 GA plenum cable with 1/2" conduit connector, degree of protection NEMA 2 / IPS4 3 ft [1 m] 10 ft [3 m] and 16ft [5 m] Overload Protection electronic thoughout 090° rotation Functional data Operating range Y 210 V Operating range Y note 420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor) Input Impedance 100 kQ for DC 210 V (0.1 mA), 500 Q for 420 mA, 1500 Ω for PWM and On/Off Operating range Y variable Start point 0.530 V End point 2.532 V Options positioning signal Variable (VDC, on/off, floating point) Position feedback U Position feedback U variable VDC variable Direction of motion motor selectable with switch 0/1 Manual override external push button Angle of rotation note adjustable with mechanical stop Running time motor variable 35150 s Noise level, motor 35 dB(A) Position indication Mechanically, pluggable Safety data Degree of protection NEMA/UL Degree of protection NEMA/UL NEMA 2		Nominal voltage frequency	50/60 Hz
Transformer sizing 5 VA (class 2 power source) Electrical Connection 18 GA plenum cable with 1/2" conduit connector, degree of protection NEMA 2 / IP54 3 ft [1 m] 10 ft [3 m] and 16ft [5 m] Overload Protection electronic thoughout 090° rotation Functional data Operating range Y 210 V Operating range Y note 420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor) Input Impedance 100 kΩ for DC 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for PWM and On/Off Operating range Y variable Start point 0.530 V End point 2.532 V Options positioning signal variable (VDC, on/off, floating point) Position feedback U 210 V Position feedback U oute Max. 0.5 mA Position feedback U variable VDC variable Direction of motion motor selectable with switch 0/1 Manual override external push button Angle of rotation note adjustable with mechanical stop Running Time (Motor) 150 s / 90° Running time motor variable 35150 s Noise level, motor 35 dB(A) Position indication Mechanically, pluggable Safety data Degree of protection NEMA/UL NEMA 2 En		Power consumption in operation	2.5 W
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Operating range Y note 420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor) Input Impedance 100 kΩ for DC 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for PWM and On/Off Operating range Y variable Start point 0.530 V End point 2.532 V Options positioning signal variable (VDC, on/off, floating point) Position feedback U 210 V Position feedback U note Max. 0.5 mA Position feedback U variable VDC variable Direction of motion motor selectable with switch 0/1 Manual override external push button Angle of rotation note adjustable with mechanical stop Running Time (Motor) 150 s / 90° Running time motor variable 35150 s Noise level, motor 35 dB(A) Position indication Mechanically, pluggable Safety data Degree of protection IEC/EN Degree of protection NEMA/UL NEMA 2 Enclosure UL Enclosure Type 2 Agency Listing cULus acc. to Ul60730-1A/-2-14, CAN/CSA E60730-1:20, C fac. 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 temperatur		Overload Protection	electronic thoughout 090° rotation
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Noise level, motor 35 dB(A) Position indication Mechanically, pluggable 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 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 -22122°F [-3050°C]		Running Time (Motor)	150 s / 90°
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Agency Listing 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 -22122°F [-3050°C]		Degree of protection NEMA/UL	NEMA 2
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Ambient temperature -22122°F [-3050°C]		Agency Listing	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
		Quality Standard	ISO 9001
Storage temperature -40176°F [-4080°C]		Ambient temperature	-22122°F [-3050°C]
		Storage temperature	-40176°F [-4080°C]
Ambient humidity Max. 95% RH, non-condensing		Ambient humidity	Max. 95% RH, non-condensing
Servicing maintenance-free		Servicing	maintenance-free



Materials	Housing material Galvanized steel and plastic housing		
Footnotes	†Rated Impulse Voltage 800V, Type action 1.B, Control Pollution Degree 3.		
Product features			
Mode of operation	PVC W'Shld for GV w/UGLK (AM)		
Accessories			
Gateways	Description	Туре	
	Gateway MP to BACnet MS/TP Gateway MP to Modbus RTU Gateway MP to LonWorks	UK24BAC UK24MOD UK24LON	
Electrical accessories	Description	Туре	
Service tools	Battery backup system, for non-spring return models Battery, 12 V, 1.2 Ah (two required) Auxiliary switch 1 x SPDT add-on Auxiliary switch 2 x SPDT add-on Feedback potentiometer 140 Ω add-on, grey Feedback potentiometer 1 k Ω add-on, grey Feedback potentiometer 10 k Ω add-on, grey Feedback potentiometer 2.8 k Ω add-on, grey Feedback potentiometer 500 Ω add-on, grey Feedback potentiometer 5 k Ω add-on feedback potentiometer	ZTH US	
	communicative Belimo actuators, VAV controller and HVAC perfo devices	rmance	
Electrical installation			
[A] [2] [3] [5] [7] [8] [4] [6] [6] [6] [6] [6] [6] [6] [6] [6] [6	 C INSTALLATION NOTES Provide overload protection and disconnect as required. Actuators may be connected in parallel. Power consumption and observed. Actuators may also be powered by DC 24 V. Only connect common to negative (-) leg of control circuits. A 500 Ω resistor (ZG-R01) converts the 420 mA control signal to Control signal may be pulsed from either the Hot (Source) or Control signal may be pulsed from either the Hot (Source) or Control signal may be pulsed from either the Hot (Source) or Control signal may be pulsed from either the Hot (Source) or Control signal may be pulsed from either the Hot (Source) or Control signal may be pulsed from either the Hot (Source) or Control signal may be pulsed from either the Hot (Source) or Control signal may be pulsed from either the Hot (Source) or Control signal may be pulsed from either the Hot (Source) or Control signal may be pulsed from either the Hot (Source) or Control signal may be pulsed from either the Hot (Source) or Control signal may be pulsed from either the Hot (Source) or Control signal may be pulsed from either the Hot (Source) or Control signal may be pulsed from either the Hot (Source) or Control signal may be pulsed from the actuator must be connection of the controller. Position feedback cannot be used v actuator internal common reference is not compatible. IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number Actuators with plenum cable do not have numbers; use color control Meets cULus requirements without the need of an electrical group Marning! Live electrical components! During installation, testing, servicing and troubleshooting of this to work with live electrical components. Have a qualified licensee who has been properly trained in handling live electrical components and the serious injury. 	o 210 V. mmon (Sink) 24 V line. e connected to the Hot vith a triac sink controller; the 40155). des instead. und connection. s product, it may be necessary d electrician or other individua nents perform these tasks.	





Dimensions