

# B320-116-290

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 ∆ps	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	1.16
	Seq 2 Cv	2.9
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

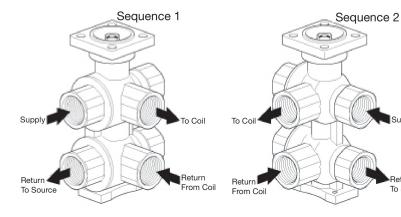
#### **Product features**

ApplicationThe 6-way characterized control valve is ideal for chilled beams, radiant ceilings, and fan coil<br/>units offering reduced wiring by using a single actuator instead of two. It eliminates the need<br/>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

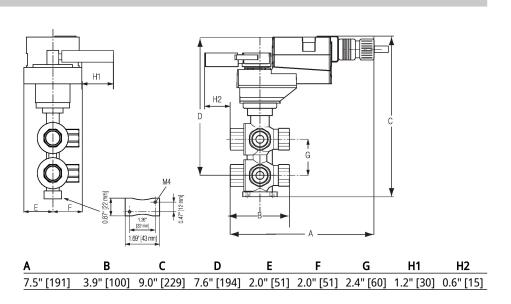
Type ZR-004

Supply

Return

To Source

Dimensions





# LRX24-MFT

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





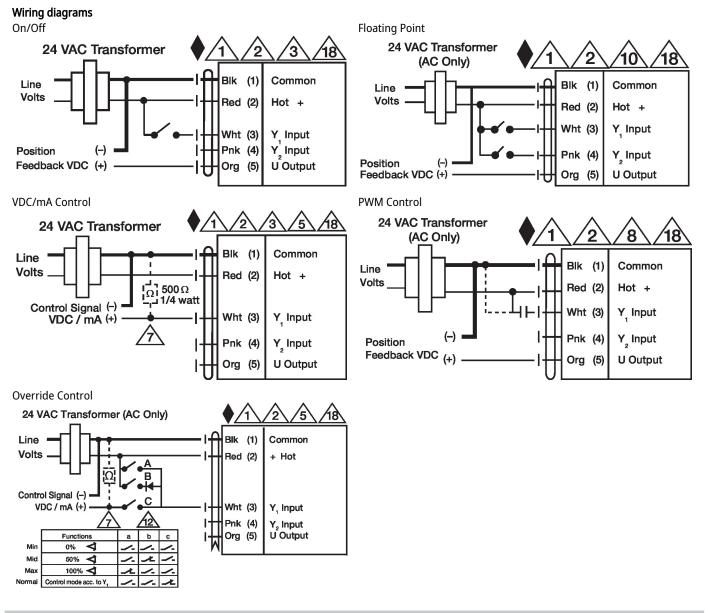
## **Technical data**

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
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           Punctional 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 0.530 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 IEC/EN           Degree of protection NEMA/UL         NEMA 2		Power consumption in rest position	1.2 W
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           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 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         IP54           Degree of protection NEMA/UL         NEMA 2           Enclosure         UL Enclosure Type 2           Agency Listing         Cluss acc. to UL60730-114/-2-14, CAN/CSA E60730-13		Transformer sizing	5 VA (class 2 power source)
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 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         90°           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           Degree of protection NEMA/UL         NEMA 2           Enclosure         UL Enclosure Type 2           Agency Listing         CULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-102, 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		Electrical Connection	connector, degree of protection NEMA 2 / IP54,
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
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       90°         Angle of rotation note       adjustable with mechanical stop         Running time motor variable       35150 s         Noise level, motor       35 dB(A)         Position indication       Mechanically, pluggable         Degree of protection NEMA/UL       NEMA 2         Enclosure       UL Enclosure Type 2         Agency Listing       cULus acc. to 10160730-14/-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]	Functional data	Operating range Y	210 V
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         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]		Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
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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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EnclosureUL Enclosure Type 2Agency ListingcULus 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 IMCQuality StandardISO 9001Ambient temperature-22122°F [-3050°C]	Safety data	Degree of protection IEC/EN	IP54
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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 $\Omega$ add-on, grey Feedback potentiometer 1 k $\Omega$ add-on, grey Feedback potentiometer 10 k $\Omega$ add-on, grey Feedback potentiometer 2.8 k $\Omega$ add-on, grey Feedback potentiometer 500 $\Omega$ add-on, grey Feedback potentiometer 5 k $\Omega$ 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	<ul> <li><b>C INSTALLATION NOTES</b></li> <li>Provide overload protection and disconnect as required.</li> <li>Actuators may be connected in parallel. Power consumption and observed.</li> <li>Actuators may also be powered by DC 24 V.</li> <li>Only connect common to negative (-) leg of control circuits.</li> <li>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.</li> <li>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!</li> <li>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.</li> </ul>	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