



| Type overview | |
|---------------|----|
| Туре | DN |
| B214 | 15 |

Technical data

| Fun | ctional | data |
|-------|---------|------|
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| Valve size | 0.5" [15] | |
|--------------------------|--|--|
| Fluid | chilled or hot water, up to 60% glycol | |
| Fluid Temp Range (water) | 0250°F [-18120°C] | |
| Body Pressure Rating | 600 psi | |
| Close-off pressure Δps | 200 psi | |
| Flow characteristic | equal percentage | |
| Servicing | maintenance-free | |
| Flow Pattern | 2-way | |
| Leakage rate | 0% for A – AB | |
| Controllable flow range | 75° | |
| Cv | 7.4 | |
| Cv Flow Rating | A-port: as stated in chart B-port: 70% of A – AB | |
| | Cv | |

Materials

| Valve body | Nickel-plated brass body |
|--------------------|--------------------------|
| Stem | stainless steel |
| Stem seal | EPDM (lubricated) |
| Seat | PTFE |
| Characterized disc | TEFZEL® |
| Pipe connection | NPT female ends |
| O-ring | EPDM (lubricated) |
| Ball | stainless steel |
| Nan Carian | TD |
| Non-Spring | TR |
| | LRB(X) |
| | ND |

Suitable actuators

| Non-Spring | TR LRB(X) NR |
|------------|--------------------|
| Spring | TFRB(X) LF |

Safety notes



• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

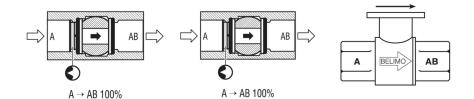


Product features

Application

This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

Flow/Mounting details



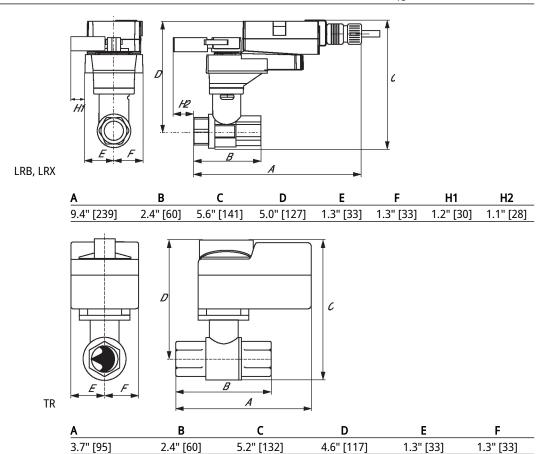
Two-way valves should be installed with the disc upstream.

Product features

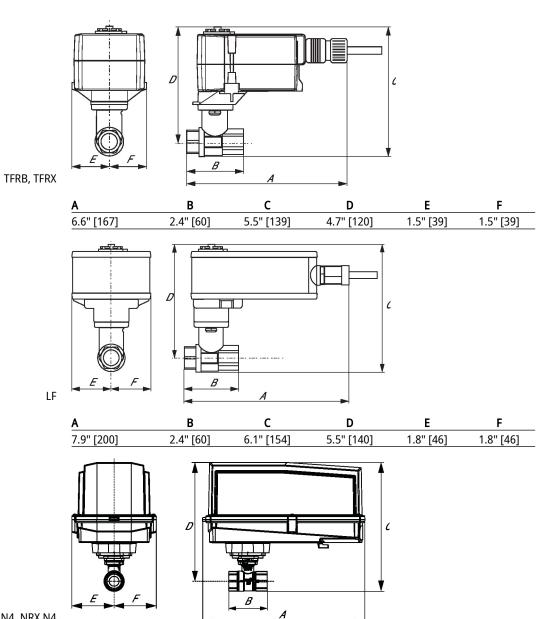
Mode of operation FBGL W'Shld for F6 HS(U) (AFx2, 4"-5")

Dimensions

| Туре | DN |
|------|----|
| B214 | 15 |

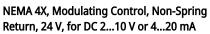






ARB N4, ARX N4, NRB N4, NRX N4

| A | В | С | D | E | F |
|-------------|-----------|------------|------------|-----------|-----------|
| 11.4" [289] | 2.4" [60] | 7.7" [196] | 7.0" [179] | 3.1" [80] | 3.1" [80] |









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|-----|----|-----|-----|---|-----|
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| ICL | | ıca | m.v | a | L O |

| Electrical data | Nominal voltage | AC/DC 24 V |
|-----------------|------------------------------------|---|
| | Nominal voltage frequency | 50/60 Hz |
| | Power consumption in operation | 3.5 W |
| | Power consumption in rest position | 0.6 W |
| | Transformer sizing | 5 VA (class 2 power source) |
| | Electrical Connection | Screw terminal (for 26 to 14 GA wire), 1/2" conduit connector |
| | Overload Protection | electronic throughout 095° 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 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA |
| | Position feedback U | 210 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 | Max. 90° |
| | Angle of rotation note | adjustable with mechanical stop |
| | Running Time (Motor) | 90 s / 90° |
| | Noise level, motor | 45 dB(A) |
| | Position indication | pointer |
| Safety data | Degree of protection IEC/EN | IP66/67 |
| | Degree of protection NEMA/UL | NEMA 4X |
| | Enclosure | UL Enclosure Type 4X |
| | 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 |
| | Ambient temperature | -22122°F [-3050°C] |
| | Ambient temperature note | -4050°C for actuator with integrated heating |
| | Storage temperature | -40176°F [-4080°C] |
| | Ambient humidity | Max. 100% RH |
| | Servicing | maintenance-free |
| Materials | Housing material | Die cast aluminium and plastic casing |

Footnotes

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



Accessories

| Electrical accessories | Description | Туре |
|------------------------|---|------------|
| | Battery backup system, for non-spring return models | NSV24 US |
| | Battery, 12 V, 1.2 Ah (two required) | NSV-BAT |
| | Auxiliary switch 1 x SPDT add-on | S1A |
| | Auxiliary switch 2 x SPDT add-on | S2A |
| | Feedback potentiometer 140 Ω add-on, grey | P140A GR |
| | Feedback potentiometer 1 kΩ add-on, grey | P1000A GR |
| | Feedback potentiometer 10 kΩ add-on, grey | P10000A GR |
| | Feedback potentiometer 2.8 kΩ add-on, grey | P2800A GR |
| | Feedback potentiometer 500 Ω add-on, grey | P500A GR |
| | Feedback potentiometer 5 k Ω add-on, grey | P5000A GR |

Electrical installation

X INSTALLATION NOTES

A 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 DC 24 V.

6 Only connect common to negative (-) leg of control circuits.

 \bigwedge A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

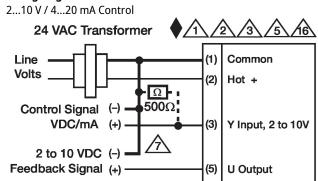
윮 Actuators are provided with a numbered screw terminal strip instead of a cable.

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.

Wiring diagrams



Dimensions