2-way, Characterized Control Valve, Stainless Steel Ball and Stem



Picture may differ from product

5-year warranty

## Type overview

| Type | DN | Cv | Body Pressure Rating |
|---|---|---|---|
| B6500S-290 | 5" [125] | 290 | ANSI Class 125, standard class B |

## Technical data

| | | |
|---|---|---|
| **Functional data** | Valve size [mm] | 5" [125] |
| | Fluid | chilled or hot water, up to 60% glycol |
| | Fluid Temp Range (water) | 0...250°F [-18...120°C] |
| | Close-off pressure | Δps 175 psi |
| | Flow characteristic | equal percentage |
| | Leakage rate | 0% for A–AB |
| | Pipe connection | Flange<br>for use with ASME/ANSI class 125 |
| | Servicing | maintenance-free |
| | Flow Pattern | 2-way |
| | Controllable flow range | 75° |
| **Materials** | Valve body | Cast iron - GG 25 |
| | Stem | stainless steel |
| | Stem seal | EPDM (lubricated) |
| | Seat | PTFE |
| | Characterized disc | Stainless steel |
| | O-ring | EPDM (lubricated) |
| | Ball | stainless steel |
| **Suitable actuators** | Non Fail-Safe | GRB(X) |
| | Electronic fail-safe | GKRB(X) |

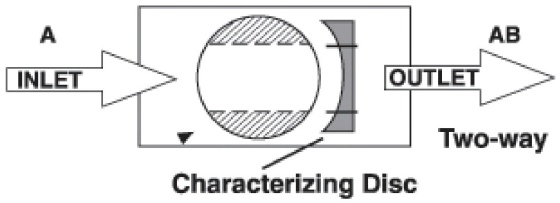
## Product features

**Application**

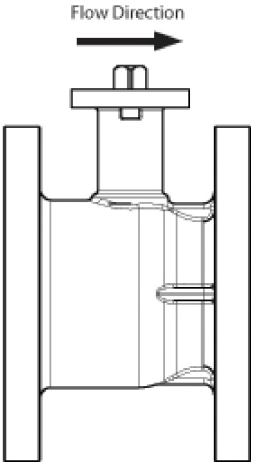
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

## Product features

**Flow/Mounting details**

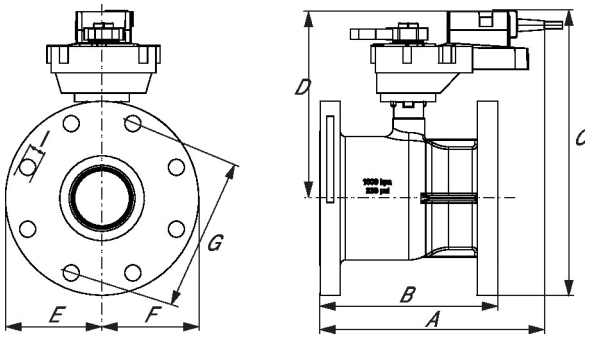



Upstream A
Downstream AB

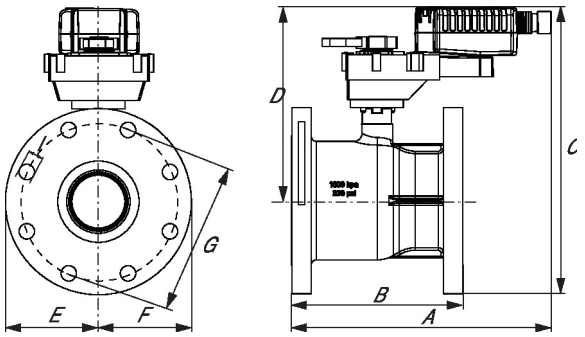



## Dimensions

| Type | DN | Weight |
|---|---|---|
| B6500S-290 | 5" [125] | 67 lb [31 kg] |



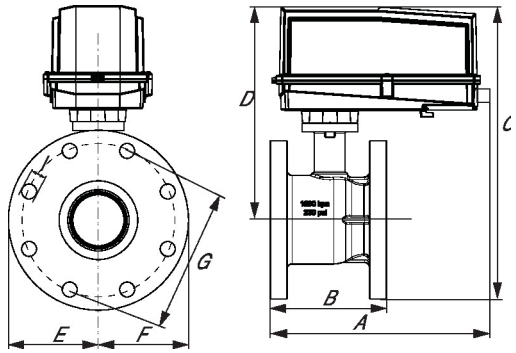

| A | B | C | D | E | F | G | I | Number of Bolt Holes |
|---|---|---|---|---|---|---|---|---|
| 13.3" [338] | 10.3" [262] | 14.4" [366] | 9.4" [239] | 5.0" [127] | 5.0" [127] | 8.5" [216] | 0.9" [22] | 8 |




| A | B | C | D | E | F | G | I | Number of Bolt Holes |
|---|---|---|---|---|---|---|---|---|
| 13.5" [343] | 10.3" [262] | 14.4" [366] | 9.7" [246] | 5.0" [127] | 5.0" [127] | 8.5" [216] | 0.9" [22] | 8 |

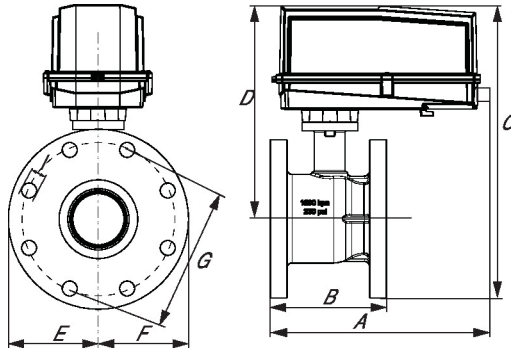
## Dimensions

GRX, GKRX




| A | B | C | D | E | F | G | I | Number of Bolt Holes |
|---|---|---|---|---|---|---|---|---|
| 17.5" [444] | 10.3" [262] | 17.0" [433] | 13.6" [345] | 5.0" [127] | 5.0" [127] | 8.5" [216] | 0.9" [22] | 8 |

GRX, GKRX

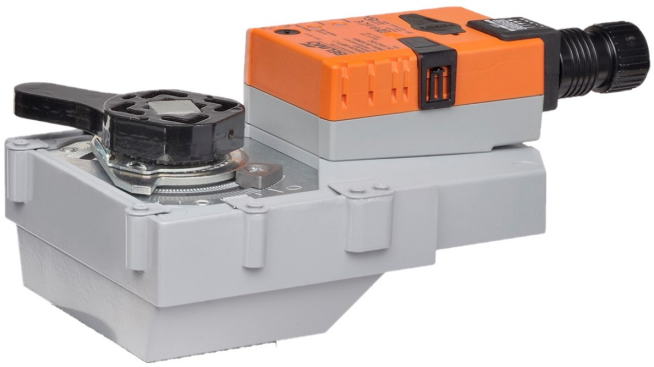



| A | B | C | D | E | F | G | I | Number of Bolt Holes |
|---|---|---|---|---|---|---|---|---|
| 17.5" [444] | 10.3" [262] | 17.0" [433] | 13.6" [345] | 5.0" [127] | 5.0" [127] | 8.5" [216] | 0.9" [22] | 8 |

BELIMO

# Technical data sheet GRB120-3-5-14

On/Off, Floating point, Non fail-safe, 100...240 V



Picture may differ from product

5-year warranty

## Technical data

| | | |
|---|---|---|
| **Electrical data** | Nominal voltage | AC 100...240 V |
| | Nominal voltage frequency | 50/60 Hz |
| | Nominal voltage range | AC 85...265 V |
| | Power consumption in operation | 4 W |
| | Power consumption in rest position | 2 W |
| | Transformer sizing | 7 VA |
| | Overload Protection | electronic thoughout 0...90° rotation |
| **Functional data** | 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° |
| | Sound power level motor | 45 dB(A) |
| | Position indication | integrated into handle |
| **Safety data** | Power source UL | Class 2 Supply |
| | Degree of protection IEC/EN | IP54 |
| | Degree of protection NEMA/UL | NEMA 2 |
| | Housing | UL Enclosure Type 2 |
| | Agency Listing | cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02<br>CE acc. to 2014/30/EU and 2014/35/EU |
| | Quality Standard | ISO 9001 |
| | UL 2043 Compliant | Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC |
| | Ambient humidity | Max. 95% RH, non-condensing |
| | Ambient temperature | -22...122°F [-30...50°C] |
| | Storage temperature | -40...176°F [-40...80°C] |
| | Servicing | maintenance-free |
| **Weight** | Weight | 5.0 lb [2.2 kg] |
| **Materials** | Housing material | Galvanized steel and plastic housing |

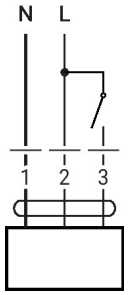
**Footnotes** †Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3

## Electrical installation

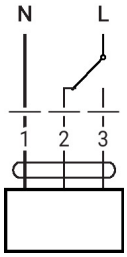
**Wire colors:**
1 = blue
2 = brown
3 = white

**Additional info:**
Caution: 3-point only with ball valves, not allowed with butterfly valves

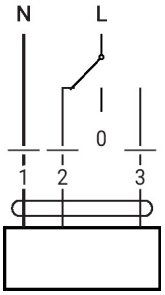
AC 230 V, on/off




AC 230 V, on/off (two-wire)




AC 230 V, 3-point




| 1 | 2 | 3 | |
|---|---|---|---|
| | | | A–AB = 0% |
| | | | A–AB = 100% |
| | | | stop |
| | | | A–AB = 100% |