

A photograph of an industrial steam system. A large white pipe is labeled 'STEAM' in black letters on a yellow background. A globe valve, made of brass, is connected to the pipe. Above the valve is an orange and grey actuator. The valve has a blue handwheel. The background is a plain, light-colored wall.

**Greater Force  
and Flexibility**

**Globe Valves**

# True Flexibility

## **LED Button**

Adapts to stroke of the valve

## **Fail-Safe Switch ("K" models only)**

Selectable position to drive stem up or stem down

## **Coupler**

Locking feature to prevent slipping

Doubles as position indicator

## **Cast Aluminum Linkage**

Rugged design with zero deflection

## **ANSI Class VI Leakage**

G2 and G3 Valve Bodies

## **Corrosion Resistant Metal Name Plate**

Easy identification of model, temperature and pressure rating, Cv, and Canada Registration Number

## **Multi-Function Technology**

Field selectable control signal, feedback signal, running time, travel limit and trending

## **100:1 Rangeability Specification**

Accurate modulation at low flow

## **Manual Override**

Ability to drive the valve up or down during power failure

## **G3, 3-way Valve Body**

One valve for both mixing and diverting applications



## **Strength**

Belimo Globe Valves offered with bronze or cast iron body with ANSI 250 and ANSI 125 pressure rating to withstand rigorous HVAC applications.



## **Dependable**

Belimo Globe Valves provide tight close-off up to 250 psi with pressure compensated valve design for 2-way bodies and accurate modulation at low flow with rangeability specification to 100:1.



## **Flexibility**

Linear globe valve actuators make selection, installation, and service hassle-free with stem travel adaption to 2", multiple voltage options, high close-off rating, and optional non fail-safe or fail-safe operation.

As a leading manufacturer of electronic direct-coupled actuators and motorized valves, Belimo is committed to helping improve comfort, safety, and efficiency in buildings.

The Belimo globe valve assemblies and actuator/retrofit linkages provide high close-off pressure, precise positioning, easy installation, field adjustability, and reliable operation. The linear stroke ensures flow is maintained in heating and cooling systems.

## **More Strength for Higher Pressure Demands**

The Belimo globe valve actuators are designed to withstand the rigorous demands of many HVAC applications. With its innovative quick connect coupler, the globe valve actuator can be retrofitted and installed and adapted in no time.

The Belimo globe valve actuators incorporate not only strength but are highly adaptable making selection, installation and service hassle-free.

- Travel ranges of up to 2" (50mm)
- ANSI Class VI leaking rating for G2 and G3 valves only
- Multiple voltage options (24V and 120-230V)
- 3-way valves for mixing or diverting
- 50 psi max dP for steam applications (G2S)
- Increased force for higher close-off pressures
- Field selectable direction of travel switch



# Selection Made Easy

|            | Globe Valve Body |              | Size   |    | Suitable Actuators |               |            |  |
|------------|------------------|--------------|--------|----|--------------------|---------------|------------|--|
| CV         | 2-Way<br>NPT     | 3-Way<br>NPT | Inches | DN | Non Fail-Safe      | Fail-Safe     |            |  |
|            |                  |              |        |    |                    | Spring Return | Electronic |  |
| 0.4 to 4.4 | G215B(S)         |              | ½      | 15 | LV Series          | LF Series     | LVK Series |  |
| 5.5 to 7.5 | G220B(S)         |              | ¾      | 20 |                    |               |            |  |
| 10 to 14   | G225B(S)         |              | 1      | 25 |                    |               |            |  |
| 20         | G232B(S)         |              | 1¼     | 32 |                    |               |            |  |
| 28         | G240B(S)         |              | 1½     | 40 |                    |               |            |  |
| 40         | G250B(S)         |              | 2      | 50 |                    |               |            |  |
| 2.2 to 4.4 |                  | G315B        | ½      | 15 | SV Series          | NF Series     | SVK Series |  |
| 6.75       |                  | G320B        | ¾      | 20 |                    |               |            |  |
| 14         |                  | G325B        | 1      | 25 |                    |               |            |  |
| 20         |                  | G332B        | 1¼     | 32 |                    |               |            |  |
| 28         |                  | G340B        | 1½     | 40 |                    |               |            |  |
| 40         |                  | G350B        | 2      | 50 |                    | AF Series     |            |  |

## Actuator Specifications

|                            |  |
|----------------------------|--|
| Control Type               | On/Off, Floating Point, PWM, Proportional, 2-10 VDC, Multi-Function Technology (MFT) |
| Manual Override            | Non Fail-Safe Fail-Safe  |
| Running Time               | 90 seconds (default) 35-150 second options available                                 |
| Actuator Travel Range [mm] | 0.6" [15] LV, 0.75" [20] SV, 1.25" [32] AV, 2" [50] EV and RV                        |

## Applications

Unit Ventilation, Air Handling Units, Water/Steam Control in Heating and Cooling Systems

| CV  | Globe Valve Body |  | Size   |     | Suitable Actuators |               |            |
|-----|------------------|--|--------|-----|--------------------|---------------|------------|
|     | 2-Way<br>Flanged |  | Inches | DN  | Non Fail-Safe      | Fail-Safe     |            |
|     |                  |  |        |     |                    | Spring Return | Electronic |
| 65  | G665C            |  | 2½     | 65  | EV Series          | AFX Series    | AVK Series |
| 85  | G680C            |  | 3      | 80  |                    |               |            |
| 170 | G6100C           |  | 4      | 100 |                    |               |            |
| 263 | G6125C           |  | 5      | 125 |                    |               |            |
| 344 | G6150C           |  | 6      | 150 |                    |               |            |



| CV  | Globe Valve Body |  | Size   |     | Suitable Actuators |               |            |
|-----|------------------|--|--------|-----|--------------------|---------------|------------|
|     | 3-Way<br>Flanged |  | Inches | DN  | Non Fail-Safe      | Fail-Safe     |            |
|     |                  |  |        |     |                    | Spring Return | Electronic |
| 68  | G765             |  | 2½     | 65  | EV / RV Series     | AFX Series    | AVK Series |
| 85  | G780             |  | 3      | 80  |                    |               |            |
| 190 | G7100            |  | 4      | 100 |                    |               |            |
| 280 | G7125            |  | 5      | 125 | RV Series          |               | GK Series  |
| 340 | G7150            |  | 6      | 150 |                    |               |            |
| 68  | G765D            |  | 2½     | 65  | EV Series          | AFX Series    | AVK Series |
| 85  | G780D            |  | 3      | 80  |                    |               |            |
| 154 | G7100D           |  | 4      | 100 |                    |               |            |
| 195 | G7125D           |  | 5      | 125 |                    |               |            |
| 248 | G7150D           |  | 6      | 150 |                    |               |            |



Note: ANSI 250 models are available.

# Globe Valve Retrofit Solutions

## Product Range

**RETROFIT®**

| Linkage          | Valve Body Model  | Valve Manufacturer                              | Suitable Actuators |           |                      |            |
|------------------|---|---|--------------------|-----------|----------------------|------------|
|                  |   |   | Non Fail-Safe      |           | Electronic Fail-Safe |            |
| SGVL<br>½" - 2"  | VB7000, VB9000 Series   | Schneider<br>Siebe<br>Invensys<br>Barber Colman | LV Series          | SV Series | LVK Series           | SVK Series |
| UGVL<br>½" - 2"  | V(B)-3754, V(B)-3974,<br>V(B)-4324, V(B)-5844,<br>V-4332, VG7000 Series | Johnson Controls                                |                    |           |                      |            |
|                  | V6600, V6700, V6800   | Robertshaw                                      |                    |           |                      |            |
|                  | V5011, V5011N,<br>V5013, V5013N Series                                  | Honeywell                                       |                    |           |                      |            |
|                  | 591, 599, 658 Series  | Siemens<br>Landis<br>Powers                     | EV                 | RV        | AVK                  |            |
| WGVL<br>2½" - 6" | Type 20, Type 22,<br>Type 30, Type 32                                   | Warren Controls                                 |                    |           |                      |            |
| FGVL<br>2½" - 6" | V3..., V4..., V5..., VG2..., VG82...                                    | Johnson Controls                                |                    |           |                      |            |
|                  | V5..., V33..., V34...   | Honeywell                                       |                    |           |                      |            |
|                  | 591, 599  | Siemens   |                    |           |                      |            |
|                  | VB9..., VB304..., VB804...  | Siebe/BC/Invensys                               |                    |           |                      |            |

### A versatile product for many HVAC applications.

- Easy installation
- Adjustable UGVL linkage to fit on most ½" to 2" globe valves
- Adjustable FGVL linkage to fit on most 2½" to 6" globe valves
- Full range of electronic fail-safe and non-spring return options
- Increased force for higher close off pressures
- Steam inlet pressure up to 100 psi
- Customized ordering, i.e. cable length, run times, etc



Belimo Americas

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