

Technical data sheet

Globe valve, 2-way, Flange, PN 6

For closed cold and warm water systems
For modulating control of air-handling and heating systems on the water side



Type overview

| Туре | DN | kvs [m³/h] | Stroke | PN | n(gl) | Sv min. |
|--------|-----|---------------|--------|----|-------|---------|
| H611R | 15 | 0.63 | 15 mm | 6 | 3 | 50 |
| H612R | 15 | 1 | 15 mm | 6 | 3 | 50 |
| H613R | 15 | 1.6 | 15 mm | 6 | 3 | 50 |
| H614R | 15 | 2.5 | 15 mm | 6 | 3 | 50 |
| H615R | 15 | 4 | 15 mm | 6 | 3 | 50 |
| H620R | 20 | 6.3 | 15 mm | 6 | 3 | 100 |
| H625R | 25 | 10 | 15 mm | 6 | 3 | 100 |
| H632R | 32 | 16 | 15 mm | 6 | 3 | 100 |
| H640R | 40 | 25 | 15 mm | 6 | 3 | 100 |
| H650R | 50 | 40 | 15 mm | 6 | 3 | 100 |
| H664R | 65 | 58 | 18 mm | 6 | 3 | 100 |
| H679R | 80 | 90 | 18 mm | 6 | 3 | 100 |
| H6100R | 100 | 145 | 30 mm | 6 | 3 | 100 |

Technical data

| Functional data | Fluid | Cold and warm water, water with glycol up to max. 50% vol. | | | | | |
|-----------------|------------------------|--|--|--|--|--|--|
| | Fluid temperature | -10120°C | | | | | |
| | Fluid temperature note | At a fluid temperature of -105°C, a stem heating is recommended. | | | | | |
| | Flow characteristic | equal percentage (VDI/VDE 2173) n(gl) = 3, optimised in the opening range | | | | | |
| | Leakage rate | max. 0.05% of the kvs value | | | | | |
| | Closing point | Top (🔺) | | | | | |
| | Pipe connection | Flange PN 6 according to ISO 7005-2 | | | | | |
| | Installation position | upright to horizontal (in relation to the stem) | | | | | |
| | Servicing | maintenance-free | | | | | |
| Materials | Valve body | EN-GJL-250 (GG 25) | | | | | |
| | Body finish | with protective paint | | | | | |
| | Closing element | Stainless steel | | | | | |
| | Stem | Stainless steel | | | | | |
| | Stem seal | EPDM O-ring | | | | | |
| | Seat | GG25 / Niro (Bypass) | | | | | |

Safety notes



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| | The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport. Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation. The valve does not contain any parts that can be replaced or repaired by the user. The valve may not be disposed of as household refuse. All locally valid regulations and requirements must be observed. When determining the flow rate characteristic of controlled devices, the recognised directives must be observed. | | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|--|
| Product features | | | | | | | | |
| Mode of operation | The globe valve is adjusted by a globe valve actuator. The actua available modulating or 3-point control system and move the va into the opening position dictated by the positioning signal. | | | | | | | |
| Flow characteristic | An equal percentage flow characteristic is produced by the prof | ile of the valve cone. | | | | | | |
| Accessories | | | | | | | | |
| Electrical accessories | Description | Туре | | | | | | |
| | Stem heating DN 1550 (45 W) Stem heating DN 65150 (60 W) | ZH24-1 ZH24-1-C | | | | | | |
| Installation notes | | | | | | | | |
| Recommended installation positions | The globe valve may be mounted upright to horizontal. It is not with the spindle pointing downwards. | permissible to mount the globe valves | | | | | | |
| Water quality requirements | The water quality requirements specified in VDI 2035 must be a | | | | | | | |
| | Belimo valves are regulating devices. For the valves to function kept free from particle debris (e.g. welding beads during install strainer is recommended. | , , , | | | | | | |
| Servicing | Globe valves and globe valve actuators are maintenance-free. Before any service work on the final controlling device is carried valve actuator from the power supply (by unplugging the electr part of the piping system concerned must also be switched off a (allow all components to cool down first if necessary and alway pressure level). The system must not be returned to service until the globe valve reassembled correctly in accordance with the instructions and to professionally trained personnel. | rical cables if necessary). Any pumps in the and the appropriate slide valves closed s reduce the system pressure to ambient e and the globe valve actuator have been | | | | | | |
| Flow direction | The direction of flow, specified by an arrow on the housing, is to valve could become damaged. | o be complied with, since otherwise the | | | | | | |
| | | | | | | | | |

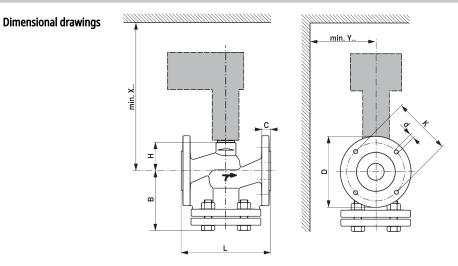


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The maximum differential and close-off pressure of globe valves depends on the mounted globe valve actuator. To ensure optimum operation and maximum service life, the maximum differential and close-off pressure in the table below must not be exceeded.

| ps <600 kPa (PN6) t= 5 120°C | | LVA 500N | | NVA 1000N | | SVA 1500N | | AVKA 2000N | | EVA 2500N | | RVA 4500N | |
|---------------------------------|-----|--------------|----------------|--------------|----------------|--------------|----------------|---------------|----------------|--------------|----------------|--------------|----------------|
| АВ | DN | ∆ps [kPa] | ∆pmax [kPa] | ∆ps [kPa] | ∆pmax [kPa] | ∆ps [kPa] | ∆pmax [kPa] | ∆ps [kPa] | ∆pmax [kPa] | ∆ps [kPa] | ∆pmax [kPa] | ∆ps [kPa] | ∆pmax [kPa] |
| H611R 15R | 15 | 600 | 400 | 600 | 400 | 600 | 400 | | | | | | |
| H620R | 20 | 600 | 400 | 600 | 400 | 600 | 400 | | | | | | |
| H625R | 25 | 500 | 400 | 600 | 400 | 600 | 400 | | | | | | |
| H632R | 32 | 350 | 350 | 600 | 400 | 600 | 400 | | | | | | |
| H640R | 40 | 150 | 150 | 500 | 400 | 600 | 400 | | | | | | |
| H650R | 50 | 70 | 70 | 300 | 300 | 550 | 400 | | | | | | |
| H664R | 65 | | | 140 | 140 | 280 | 280 | | | | | | |
| H679R | 80 | | | 80 | 80 | 160 | 160 | | | | | | |
| H6100R | 100 | | | | | | | 150 | 150 | 200 | 200 | 450 | 400 |

Dimensions



X/Y: Minimum distance with respect to the valve centre. The actuator dimensions can be found on the respective actuator data sheet.

| Туре | DN | L | В | Н | C | D | d | K | X | Y | |
|--------|-----|------|------|------|------|------|--------|------|------|------|-----|
| | | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | |
| H611R | 15 | 130 | 86 | 46 | 12 | 80 | 4 x 11 | 55 | 290 | 100 | 3.2 |
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| H613R | 15 | 130 | 86 | 46 | 12 | 80 | 4 x 11 | 55 | 290 | 100 | 3.2 |
| H614R | 15 | 130 | 86 | 46 | 12 | 80 | 4 x 11 | 55 | 290 | 100 | 3.2 |
| H615R | 15 | 130 | 86 | 46 | 12 | 80 | 4 x 11 | 55 | 290 | 100 | 3.2 |
| H620R | 20 | 150 | 93 | 46 | 14 | 90 | 4 x 11 | 65 | 290 | 100 | 4.5 |
| H625R | 25 | 160 | 98 | 52 | 14 | 100 | 4 x 11 | 75 | 300 | 100 | 5.1 |
| H632R | 32 | 180 | 119 | 56 | 16 | 120 | 4 x 14 | 90 | 300 | 100 | 7.0 |
| H640R | 40 | 200 | 124 | 64 | 16 | 130 | 4 x 14 | 100 | 310 | 100 | 9.3 |
| H650R | 50 | 230 | 124 | 64 | 16 | 140 | 4 x 14 | 110 | 310 | 100 | 11 |
| H664R | 65 | 290 | 144 | 100 | 16 | 160 | 4 x 14 | 130 | 350 | 100 | 18 |
| H679R | 80 | 310 | 158 | 110 | 18 | 190 | 4 x 18 | 150 | 360 | 100 | 24 |
| H6100R | 100 | 350 | 178 | 125 | 18 | 210 | 4 x 18 | 170 | 475 | 120 | 31 |

Further documentation

- The complete product range for water applications
- Data sheets for globe valve actuators
- Installation instructions for valves and/or globe valve actuators
- Notes for project planning 2-way and 3-way globe valves

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