

Globe valve, 3-way, Flange, PN 16

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


Type overview

Type	DN []	kvs [m ³ /h]	Stroke []	PN []	Sv min. []
H7200W630-S7	200	630	65 mm	16	30
H7250W1000-S7	250	1000	65 mm	16	30

Technical data

Functional data	Fluid	Cold and warm water, water with glycol up to max. 50% vol.
	Fluid temperature	5...120 °C
	Fluid temperature note	-10 °C with stem heating
	Permissible operating pressure ps	1600 kPa
	Flow characteristic	Control path A – AB: Linear (VDI/VDE 2173); Bypass B – AB: Linear (VDI/VDE 2173)
	Leakage rate	Control path A – AB: max. 0.05% of the kvs value; Bypass B – AB: max. 1% of the kvs value
	Closing point	Top (▲)
	Pipe connectors	Flange PN 16 according to ISO 7005-2
	Installation position	upright to horizontal (in relation to the stem)
	Servicing	maintenance-free
Materials	Housing	EN-GJL-250 (GG 25), with protective paint
	Closing element	Stainless steel
	Stem	Stainless steel
	Stem seal	EPDM
	Seat	Stainless steel

Safety notes


- 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

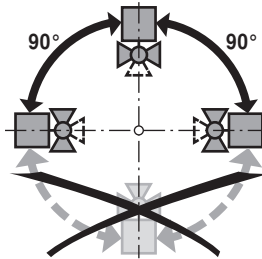
- Mode of operation** The large globe valve is adjusted by a long stroke actuator. The actuators are controlled by a commercially available modulating or 3-point control system and move the valve cone, which acts as a mixing device, to the opening position dictated by the positioning signal.
- Flow characteristic** A linear flow characteristic is produced in the direction of flow by the profile of the valve cone. The bypass exhibits a linear characteristic curve.

Accessories

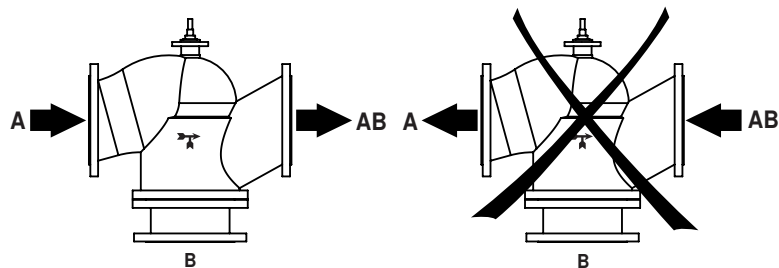
	Description	Type
Electrical accessories	Stem heating DN 125...250 (60 W)	ZH24-1-D

Installation notes

- Recommended installation positions** The large globe valves may be mounted from upright to horizontal. It is not permissible to mount the large globe valves with the spindle pointing downwards.



- Water quality requirements** The water quality requirements specified in VDI 2035 must be adhered to. Belimo valves are regulating devices. For the valves to function correctly in the long term, they must be kept free from particle debris (e.g. welding beads during installation work). The installation of a suitable strainer is recommended.
- Servicing** Large globe valves and long stroke actuators are maintenance-free. Before any service work on the final controlling device is carried out, it is essential to isolate the long stroke actuator from the power supply (by unplugging the electrical cables if necessary). Any pumps in the part of the piping system concerned must also be switched off and the appropriate slide valves closed (allow all components to cool down first if necessary and always reduce the system pressure to ambient pressure level). The system must not be returned to service until the large globe valve and the long stroke actuator have been correctly reassembled in accordance with the instructions and the pipeline has been refilled by professionally trained personnel.
- Flow direction** The direction of flow, specified by an arrow on the housing, is to be complied with, since otherwise the valve could become damaged.

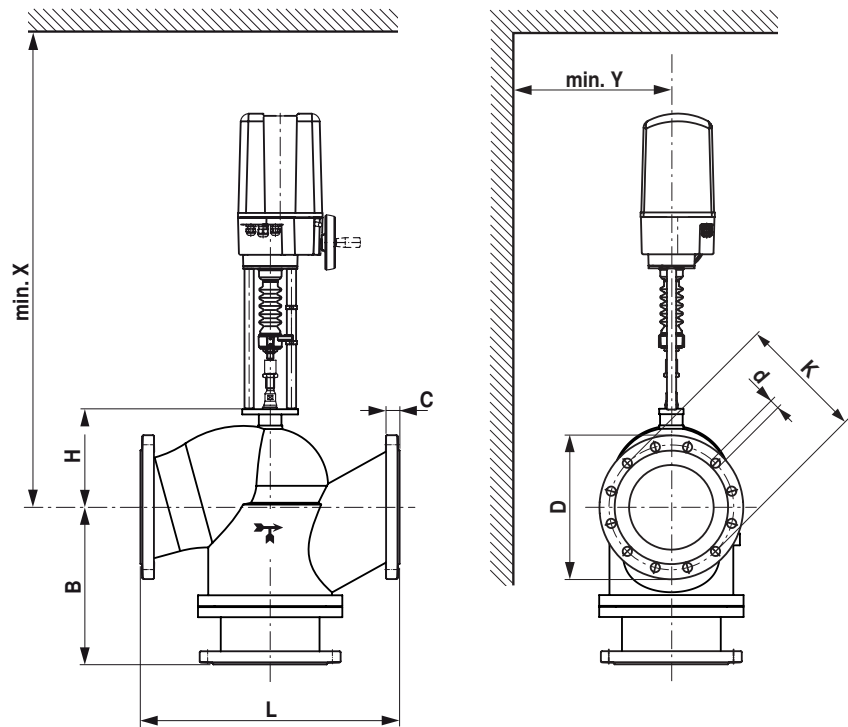


General notes

- Delivery notes** Large globe valve and long stroke actuator are supplied pre-mounted. These valves are fabricated only when orders are received.

Dimensions / Weight

Dimensional drawings



X/Y: Minimum distance with respect to the valve centre.

Weight including GV.. long stroke actuator

The actuator dimensions can be found on the respective actuator data sheet.

Type	DN []	L [mm]	B [mm]	H [mm]	C [mm]	D [mm]	d [mm]	K [mm]	X [mm]	Y [mm]	Weight
H7200W630-S7	200	600	380	315	30	340	12 x 22	295	1210	200	200 kg
H7250W1000-S7	250	730	440	375	32	405	12 x 26	355	1270	250	350 kg

Further documentation

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