

Globe valve, 3-way, Flange, PN 16

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


Type overview

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

Technical data

Functional data	Media	Cold and warm water, water with glycol up to max. 50% vol.
	Medium temperature	5...120 °C
	Medium temperature note	-10 °C with stem heating
	Permissible 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
	Pipe connectors	Flange according to ISO 7005-2 (PN 16)
	Closing point	Top (▲)
	Installation position	Upright to horizontal (in relation to the stem)
	Maintenance	Maintenance-free
Materials	Housing	EN-JL1040 (GG25), with protective paint
	Closing element	Stainless steel
	Stem	Stainless steel
	Stem seal	EPDM ring
	Seat	Stainless steel

Safety notes


- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and is not allowed to 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



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

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.

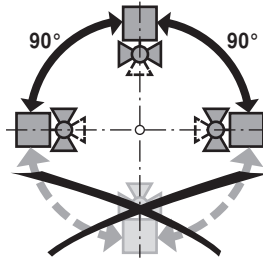
Flow characteristic A linear characteristic is produced in the direction of flow by the profile of the valve cone. The bypass exhibits a linear characteristic curve.

Accessories

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

Installation notes

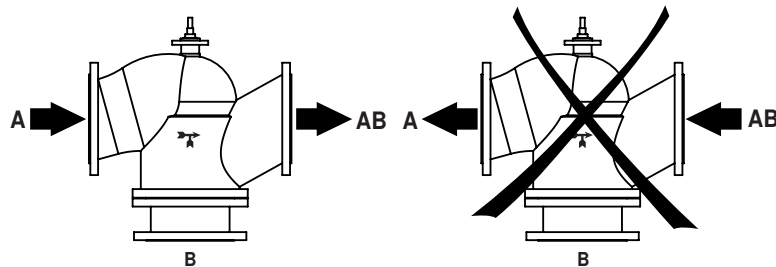
Recommended installation positions The large globe valves may be mounted from upright to horizontal. It is not permissible to mount the large globe valves with the spindle pointing downwards.



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 suitable strainer is recommended.

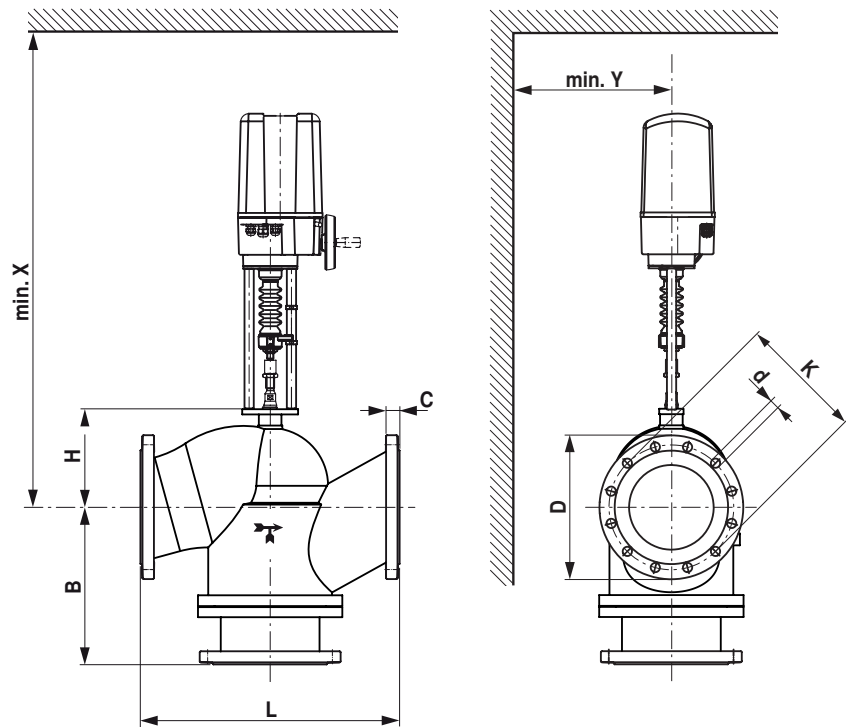
Maintenance Large globe valves and long stroke actuators are maintenance-free. Before any kind of service work is carried out on actuator, it is essential to isolate the long stroke actuator from the power supply (by disconnecting the power lead if required). Any pumps in the part of the piping system concerned must also be switched off and the appropriate shut-off valves closed (allow everything to cool down first if necessary and 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 properly reinstalled in accordance with the instructions and the pipes have been refilled in the proper manner.

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.



Dimensions / Weight

Dimensional drawings



X/Y: Minimum distance with respect to the valve centre with long stroke actuator GV.
 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 approx. [kg]
H7200W630-S7	200	600	380	315	30	340	12 x 22	295	1210	200	200
H7250W1000-S7	250	730	440	375	32	405	12 x 26	355	1270	250	350

Further documentation

- Overview Valve-actuator combinations
- Data sheets for long stroke actuators
- Installation instructions for valves and/or long stroke actuators
- Notes for project planning 2-way and 3-way globe valves