

Globe valve (partial pressure-balanced), 2-way, Flange, PN 25

- For closed (high temperature) hot water and steam systems in the non-critical range
- 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.
H6065X58-SP2	65	58	18 mm	25	3	100
H6080X90-SP2	80	90	18 mm	25	3	100
H6100X125-SP2	100	125	18 mm	25	3	100

Technical data

unctional data	Fluid	Hot water and steam (Δp/P1 <0.4), water with max 50% volume of glycol						
	Fluid temperature	5150°C						
	Fluid temperature note	120°C up to 2500 kPa 150°C up to 2430 kPa						
	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	Bottom (▼)						
	Pipe connection	Flange PN 25 according to ISO 7005-2						
	Installation position	upright to horizontal (in relation to the stem)						
	Servicing	maintenance-free						
Materials	Valve body	EN-GJS-400-18-LT (GGG 40.3)						
	Body finish	with protective paint						
	Closing element	Stainless steel						
	Stem	Stainless steel						
	Stem seal	PTFE V-ring						
	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 globe valve is adjusted by a globe valve 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. High close-off pressures are permitted as a result of both the partial pressure relieving stem and the overflow channels in the valve.

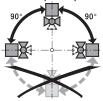
Flow characteristic

An equal percentage flow characteristic is produced by the profile of the valve cone.

Installation notes

Recommended installation positions

The globe valve may be mounted upright to horizontal. It is not permissible to mount the 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

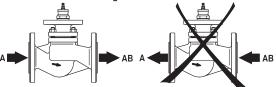
Globe valves and globe valve actuators are maintenance-free.

Before any service work on the final controlling device is carried out, it is essential to isolate the globe valve 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 globe valve and the globe valve actuator have been reassembled correctly 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.



Differential and close-off pressure

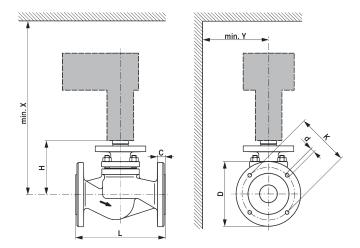
The maximum differential and close-off pressure of globe valves depends on the mounted globe valve actuator. To ensure optimum operation and maximum service life, the maximum differential and close-off pressure in the table below must not be exceeded.

ps <2500 kPa (t= 5 120°C ps <2430 kPa (t= 121 150	NV. 100		SV. 150		
A ▲ AB	DN	Δps [kPa]	Δpmax [kPa]	Δps [kPa]	Δpmax [kPa]
H6065X58-SP2	65	2100	1000	2500	1000
H6080X90-SP2	80	1600	1000	2400	1000
H6100X125-SP2	100	1000	1000	1700	1000

Dimensions



Dimensional drawings



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	н	C	D	d	K	Χ	Υ	A
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	/ kg \
H6065X58-SP2	65	290	155	22	185	4 x 18	145	400	100	18
H6080X90-SP2	80	310	170	24	200	8 x 18	160	420	150	23
H6100X125-SP2	100	350	190	24	235	8 x 22	190	440	150	34

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