

**Globe valves, 2-way, with PN25 flange**

- For closed (high temperature) hot water and steam systems in the non-critical range
- For modulating water-flow control of air purification and heating systems


**Type listing**

Type	$k_{vs}$ [m <sup>3</sup> /h]	DN [mm]	Stroke [mm]	$S_v$
H6015XP4-S2	0.4	15	15	>50
H6015XP63-S2	0.63	15	15	>50
H6015X1-S2	1	15	15	>50
H6015X1P6-S2	1.6	15	15	>50
H6015X2P5-S2	2.5	15	15	>50
H6015X4-S2	4	15	15	>50
H6020X4-S2	4	20	15	>100
H6020X6P3-S2	6.3	20	15	>100
H6025X6P3-S2	6.3	25	15	>100
H6025X10-S2	10	25	15	>100
H6032X10-S2	10	32	15	>100
H6032X16-S2	16	32	15	>100
H6040X10-S2	16	40	15	>100
H6040X25-S2	25	40	15	>100
H6050X25-S2	25	50	15	>100
H6050X40-S2	40	50	15	>100
H6065X58-SP2	58	65	18	>100
H6080X90-SP2	90	80	18	>100
H6100X125-SP2	125	100	18	>100

**Technical data**

Functional data	Media	
		(High temperature) hot water and low steam ( $\Delta p/P1 < 0.4$ ), Water with max 50% volume of glycol
	Medium temperature	+5 °C ... +150 °C
	Authorised pressure $p_s$	2500 kPa up to 120 °C medium temperature 2430 kPa up to 150 °C medium temperature
	Flow characteristic	Control path A – AB: equal percentage (VDI/VDE 2173) $n(g) = 3$ , optimised in the opening range
	Rangeability $S_v$	see «Type listing»
	Leakage rate	Control path A – AB: Leakage Class III (DIN EN 1349 and DIN EN 60534-4)
	Pipe connectors	Flange in accordance with ISO 7005-2 (PN 25)
	Stroke	see «Type listing»
	Closing point	Bottom (▼)
	Installation position	Standing to lying (in relation to the stem)
	Maintenance	Maintenance-free

**Technical data**
*(continued)*

<b>Materials</b>	Fitting	GGG 40.3
	Valve cone	Stainless steel
	Valve stem	Stainless steel
	Seat	Stainless steel
	Stem seal	PTFE-Roof seal
<b>Dimensions / weights</b>	Dimensions and weights	See «Dimensions and weights» on page 3
<b>Motorising</b>	see general overview «The complete product range of water solutions»	

**Safety notes**

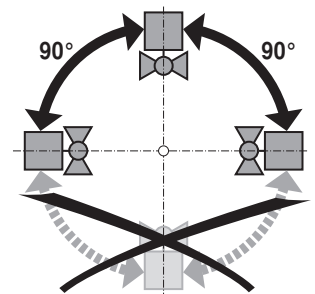

- The valve has been designed for use in stationary heating, ventilation and air conditioning systems and is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by government agency authorities must be observed during assembly.
- 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**

<b>Mode of operation</b>	The globe valve is operated by an NV series 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 throttling device, to the opening position dictated by the control signal. In the nominal widths 65, 80 and 100, the valve is constructed in the same way as the H6..SP series. Higher closing pressures are permitted with the NV globe valve actuator as a result of both the partial pressure relieving stem and the overflow channels in the valve.
<b>Flow characteristic</b>	An equal-percentage flow characteristic is produced by the profile of the valve cone.
<b>Manual operation</b>	The valve stem can be manually operated by means of an Allen key (I-6-kt) on the NV.. globe valve actuator.

**Installation notes**

**Recommended installation positions** The globe valves may be mounted in any position from **standing to lying**. It is not permissible to mount the globe valves with the stem pointing downwards.

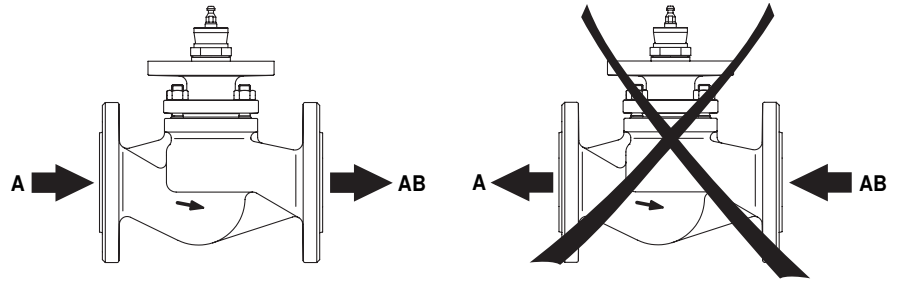


<b>Water quality requirements</b>	<ul style="list-style-type: none"> <li>• The water quality requirements specified in VDI 2035 must be adhered to.</li> <li>• Globe valves are regulating devices. The use of <b>dirt filters</b> is recommended in order to prolong their service life as modulating instruments.</li> </ul>
<b>Maintenance</b>	<ul style="list-style-type: none"> <li>• The globe valves and globe valve actuators are maintenance-free.</li> <li>• Before any kind of service work is carried out on actuator sets of this type, it is essential to isolate the globe valve actuator from the power supply (by unplugging the power lead if necessary). Any pumps in the part of the piping system concerned must also be switched off and the appropriate isolating fittings closed (allow everything to cool down first if necessary and reduce the pressure in the system to ambient pressure).</li> <li>• The system must not be returned to service until the globe valve and the actuator have been properly reinstalled in accordance with the instructions and the pipeline has been refilled in the proper manner.</li> </ul>

Installation notes

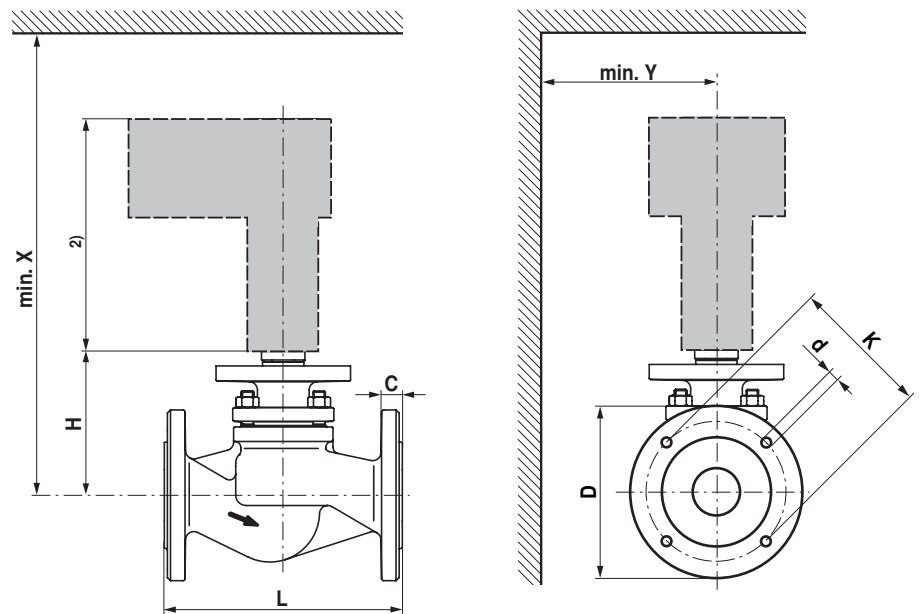
(continued)

**Flow direction** The direction of flow, specified by an arrow on the housing, is to be complied with, since otherwise the large ball valve could be damaged.



Dimensions and weights

Dimensional drawings



DN [mm]	L [mm]	H [mm]	D [mm]	C [mm]	K [mm]	d [mm]	X <sup>1)</sup> [mm]	Y <sup>1)</sup> [mm]	Weight [kg]
15	130	118	95	14	65	4x14	545	100	3.6
20	150	118	105	16	75	4x14	545	100	4.3
25	160	126	115	16	85	4x14	545	100	5.2
32	180	126	140	18	100	4x18	545	100	6.8
40	200	133	150	18	110	4x18	545	100	8.7
50	230	139	165	20	125	4x18	545	100	11.6
65	290	155	185	22	145	4x18	570	150	17.1
80	310	173	200	24	160	8x18	590	150	22.9
100	350	193	235	24	190	8x22	740	150	33.5

<sup>1)</sup> Minimum distance with respect to the valve centre

<sup>2)</sup> The actuator dimensions can be found on the respective actuator data sheet.

Further documentation

- Complete overview «The complete product range of water solutions»
- Data sheets for globe valve actuators
- Installation instructions for valves and/or globe valve actuators
- Notes for project planning (hydraulic characteristic curves and circuits, installation regulations, commissioning, maintenance, etc.)