

- Globe valves, 2-way, with flange PN 16
- for closed hot water and steam systems
 - for modulating water-side control of air handling units and heating systems



Type overview

Type	k_{vs} [m ³ /h]	DN [mm]	Stroke [mm]	S_v
H610S	0.4	15	15	>50
H611S	0.63	15	15	>50
H612S	1	15	15	>50
H613S	1.6	15	15	>50
H614S	2.5	15	15	>50
H615S	4	15	15	>50
H619S	4	20	15	>100
H620S	6.3	20	15	>100
H624S	6.3	25	15	>100
H625S	10	25	15	>100
H632S	16	32	15	>100
H640S	25	40	15	>100
H650S	40	50	15	>100
H664S	58	65	18	>100
H665S	63	65	30	>100
H680S	100	80	30	>100
H6100S	145	100	30	>100
H6125S	220	125	40	>100
H6150S	320	150	40	>100

Technical data

Functional data		
Flow media	Hot water and steam ($\Delta p/P1 < 0.4$), water with max. 50% volume of glycol	
Temperature of medium	+5°C...+150°C	
Rated pressure p_s	1600 kPa to 120°C temperature of medium 1400 kPa to 150°C temperature of medium	
Flow characteristic	Control path A – AB: equal percentage (to VDI/VDE 2173) $n(g) = 3$, optimized in the opening range	
Rangeability S_v	See «Type overview»	
Leakage rate	Control path A – AB: leakage class III (DIN EN 1349 and DIN EN 60534-4)	
Pipe connection	Flange to ISO 7005-2 (PN 16)	
Stroke	See «Type overview»	
Valve closing point	Down (▼)	
Installation position	Upright to horizontal (in relation to the stem)	
Maintenance	Maintenance-free	

Technical data
(continued)

Materials	Fitting	Cast iron GG25
	Valve cone	Stainless steel
	Valve stem	Stainless steel
	Valve seat	Stainless steel
	Stem gland seal	PTFE V-ring
Dimensions / Weights	Dimensions and weights	See «Dimensions and weights», page 3
Motorizing	See the Complete overview «The complete range of water solutions»	

Safety notes

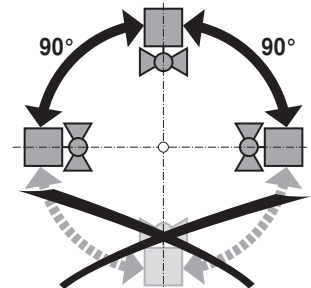

- This globe valve has been designed for use in stationary heating, ventilation and air conditioning systems and is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- It may only be installed by suitably trained personnel.
All applicable legal or institutional installation regulations must be complied with.
- The valve does not contain any parts that can be replaced or repaired by the user.
- The valve is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.
- The recognized rules should be applied when determining the flow characteristic of final controlling elements.

Product features

Mode of operation	The globe valve is operated by an NV or AV series linear actuator. The linear actuators are controlled by a standard modulating or 3-point control system and move the cone of the valve, the throttling device, to the opening position dictated by the control signal.
Flow characteristic	An equal-percentage flow characteristic is produced by profiling the valve cone.
Manual operation	On the NV or AV linear actuator, the valve stem can be actuated manually using a hexagonal key.

Installation notes

Recommended mounting positions The globe valve may be mounted either **vertically** or **horizontally**. It is not permissible, mounting the globe valve with the stem pointing downwards.

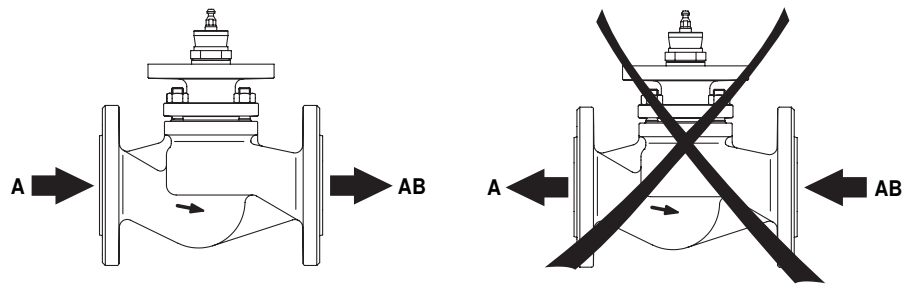


Water quality requirements	<ul style="list-style-type: none"> • The water quality requirements specified in VDI 2035 must be adhered to. • Globe valves are relatively sensitive control devices. In order to ensure a long service life, it is advisable to fit strainers.
Maintenance	<ul style="list-style-type: none"> • The globe valves and linear actuators are maintenance-free. • Before any kind of service work is carried out on actuator sets of this type, it is essential to isolate the linear actuator from the power supply (by unplugging the power lead). 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 atmospheric). • The system must not be returned to service until the globe valve and the linear actuator have been properly reassembled in accordance with the instructions and the pipework has been refilled in the proper manner.

Installation notes

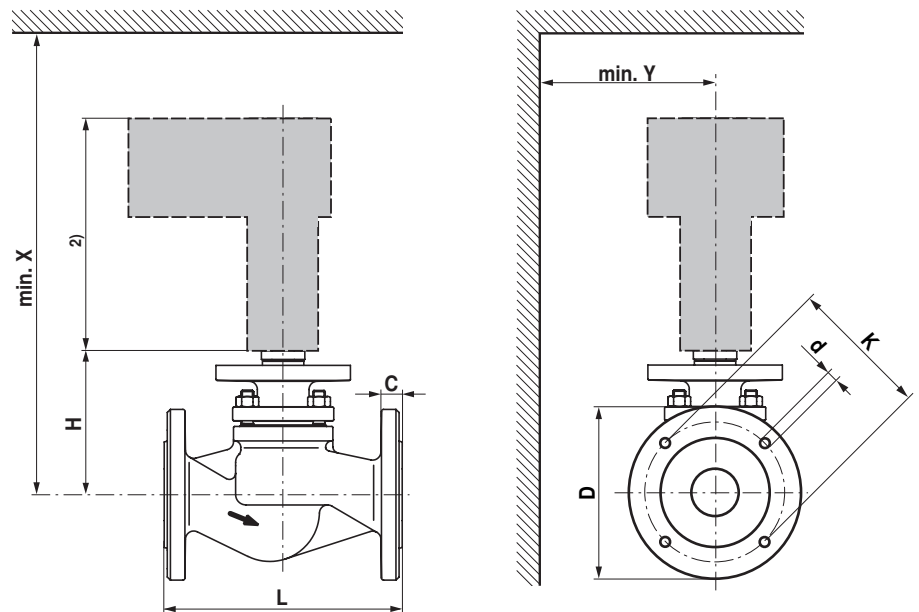
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Direction of flow The direction of flow, specified by an arrow on the housing, is to be complied with, since otherwise the globe valve can be damaged.



Dimensions and weights

Dimensional drawings



DN [mm]	L [mm]	H [mm]	D [mm]	C [mm]	K [mm]	d [mm]	X ¹⁾ [mm]	Y ¹⁾ [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	152	185	20	145	4x18	545	100	16.7
65	290	155	185	20	145	4x18	730	150	16.7
80	310	170	200	22	160	8x18	730	150	22.4
100	350	190	220	24	180	8x18	730	150	32.5
125	400	228	250	26	210	8x18	830	150	44.0
150	480	288	285	26	240	8x22	830	150	61.0

¹⁾ Minimum distance with respect to the valve centre.

²⁾ The actuator dimensions can be found on the respective actuator data sheet.

Further documentations

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