

Globe valves, 2-way, with flange PN16

- For closed cold and hot water 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]	ΔP _s [kPa]	ΔP _{BDP} [kPa]
H665SP-Q	63	65	20	1600	100
H680SP-R	100	80	30	1600	100
H6100SP-S	160	100	40	1600	100
H6125SP-T	250	125	40	1600	100
H6150SP-T	350	150	40	1600	100
H6200SP-U	520	200	40	1600	100
H6250SP-V	700	250	40	1600	100

Technical data

Functional data	Flow media	Cold and hot water, water with max. 50% volume of glycol
	Temperature of medium	0°C ... +150°C
	Rated pressure P _s	1600kPa (PN16)
	Flow characteristic	Control path A – AB: equal percentage (to VDI/VDE 2173) n(gl) = 3, optimised in the opening range
	Rangeability S _v	100:1
	Leakage rate	Max. 0.01% of kvs value (DIN EN 1349 and DIN EN 60534-4)
	Medium velocity	Max. 2 m/s
	Pipe connection	Flange to ISO 7005-2 (PN16)
	Stroke	See «Type overview»
	Valve stem extends	Flow decrease
	Installation position	Upright to horizontal (in relation to the stem)
	Maintenance	Maintenance-free
	Materials	Body
Valve cone		Stainless steel SS304
Valve stem		Stainless steel SS630
Valve seat		Stainless steel SS304
Stem gland seal		PTFE & FFKM
Dimensions / Weights	Dimensions and weights	See «Dimensions and weights»

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 recognised rules should be applied when determining the flow characteristic of final controlling elements.

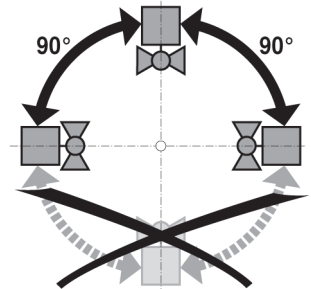
Product features

Mode of operation	The globe valve is operated by an SV, EV or RV 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 SV, EV or RV 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 to mount the globe valve with the stem pointing downwards.



Water quality requirements

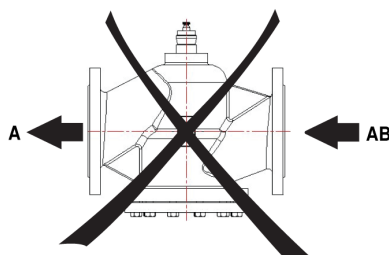
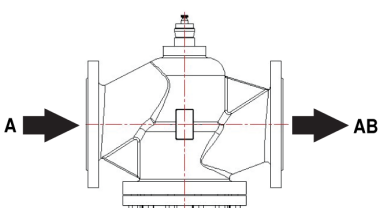
- The water quality requirements specified in VDI 2035 must be adhered to.
- Globe valves are relatively sensitive control devices. In order to ensure a long service life, it is advisable to fit **strainers**.

Maintenance

- 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.

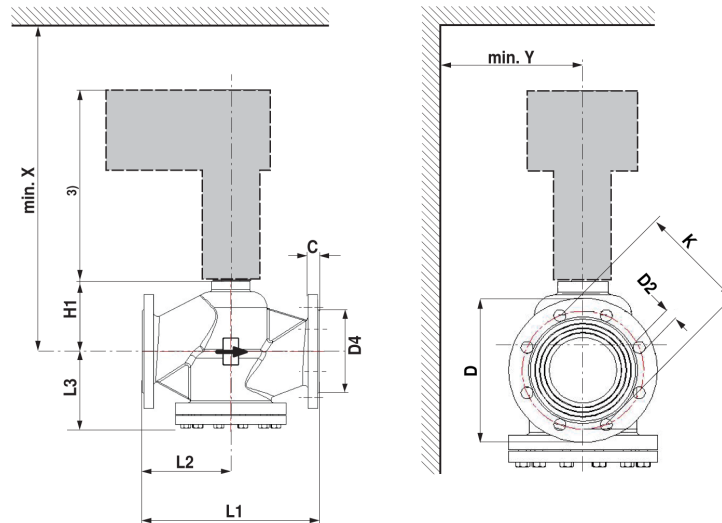
Direction of flow

- 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]	C [mm]	D [mm]	D2 [mm]	D4 [mm]	K [mm]	L1 [mm]	L2 [mm]	L3 [mm]	H1 [mm]	X ²⁾ [mm]	Y ²⁾ [mm]	Weight [kg]
65	20	185	4-19	118	145	290	145	112	104.5	315	145	20
80	22	200	8-19	132	160	310	155	132	120	445	150	31
100	23	220	8-19	156	180	350	175	150	137	465	160	46
125	24	250	8-19	184	210	400	200	175	157	485	175	59
150	25	285	8-23	211	240	480	240	198	171	500	195	77
200	26	340	12-23	266	295	500	250	234	185	510	220	122
250	31	405	12-28	319	355	600	300	265	205	530	255	185

2) Minimum distance with respect to the valve centre.

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