EXT-TI-H6..X-S(P)

Globe valves, 2-way, with flange PN25
- **For closed cold or 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	$\triangle P_s$ [kPa]
EXT-TI-H6015X-S	2	15	20	>50	1600
EXT-TI-H6020X-S	3	20	20	>50	1600
EXT-TI-H6025X-S	5	25	20	>50	1600
EXT-TI-H6032X-S	8	32	20	>50	1600
EXT-TI-H6040X-SP	20	40	20	>50	1600
EXT-TI-H6050X-SP	31	50	20	>50	1600
EXT-TI-H6065X-SP	50	65	20	>50	1600
EXT-TI-H6080X-SP	80	80	30	>50	1600
EXT-TI-H6100X-SP	125	100	40	>50	1600
EXT-TI-H6125X-SP	200	125	40	>50	1600
EXT-TI-H6150X-SP	300	150	40	>50	1600
EXT-TI-H6200X-SP	520	200	40	>50	1600
EXT-TI-H6250X-SP	750	250	40	>50	1600

Technical data

Functional data	Flow media	Cold and hot water, Refrigerant (R12, R22, R134a, R202), water with max. 50% volume of glycol, Hydrazine, Phosphate
	Temperature of medium	0°C...+180°C
	Rated pressure P_s	2500kPa (PN25)
	Flow characteristic	Control path A – AB: equal percentage (to VDI/VDE 2173) n(gl) = 3, optimised in the opening range
	Rangeability S_v	See «Type overview»
	Leakage rate	Max. 0.02% of kvs value (DIN EN 1349 and DIN EN 60534-4)
	Pipe connection	Flange to ISO 7005-2 (PN16)
	Stroke	See «Type overview»
	Valve closing point	Up (▲)
	Installation position	Upright to horizontal (in relation to the stem)
	Maintenance	Maintenance-free
Materials	Body	Ductile iron GGG40
	Valve cone	Stainless steel SS304
	Valve stem	Stainless steel SS630
	Valve seat	Stainless steel SS304
	Stem gland seal	Teflon
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

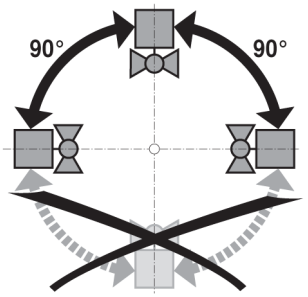
Mode of operation
The globe valve is operated by an SV, EV or RV series linear actuator. The linear actuators are controlled by a standard modulating or 3-point control system and move the cone of the valve, the throttling device, to the opening position dictated by the control signal.

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

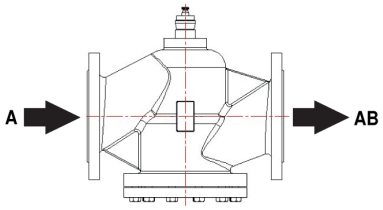
Recommended mounting positions
The globe valve may be mounted either **vertically** or **horizontally**.
It is not permissible to mount the globe valve with the stem pointing downwards.

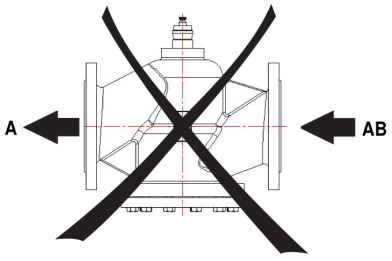


Water quality requirements
- The water quality requirements specified in VDI 2035 must be adhered to.
- Globe valves are relatively sensitive control devices. In order to ensure a long service life, it is advisable to fit **strainers**.

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.

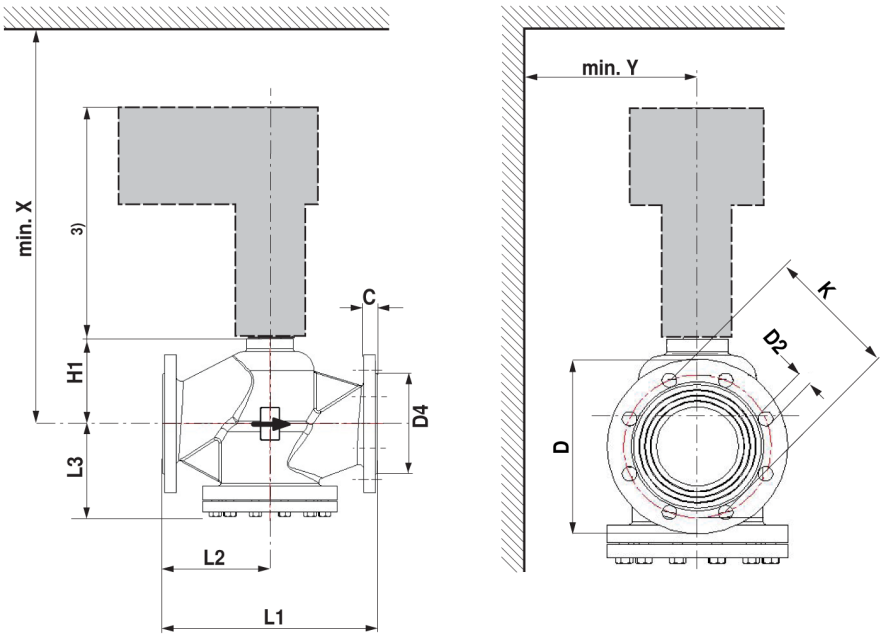
Direction of flow
- The direction of flow, specified by an arrow on the housing, is to be complied with, since otherwise the globe valve can be damaged.





Dimensions and weights

Dimensional drawings



DN [mm]	B [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]
15	14	95	4-14	46	65	130	65	70	31	416	665	3.7
20	16	105	4-14	56	75	150	75	70	31	416	665	4.3
25	16	115	4-14	65	85	160	80	75	36	421	665	5.4
32	18	140	4-18	76	100	180	90	80	45	430	665	7.7
40	18	150	4-18	84	110	200	100	82	50	435	665	9.2
50	20	165	4-18	99	125	230	115	98	60	445	665	12.5
65	22	185	8-18	118	145	290	130	115	90	475	665	18.5
80	24	200	8-18	132	160	310	150	130	101	486	665	25
100	24	235	8-22	156	190	350	175	150	162	547	665	35.6
125	22	270	8-26	184	220	400	200	175	146	535	665	50.6
150	25	300	8-26	211	250	480	240	200	161	550	665	71.5
200	26	360	12-26	274	310	500	250	236	263	648	665	112.7
250	31	425	12-30	330	370	600	300	295	315	700	665	202

2) Minimum distance with respect to the valve centre.
3) The actuator dimensions can be found on the respective actuator data sheet.