

Globe valve, 2-way, Flange, PN 6

- For closed cold and warm water systems
- For modulating control of air-handling and heating systems on the water side


Type overview

Type	DN []	kvs [m ³ /h]	Stroke []	PN []	Sv min. []
H611R	15	0.63	15 mm	6	50
H612R	15	1	15 mm	6	50
H613R	15	1.6	15 mm	6	50
H614R	15	2.5	15 mm	6	50
H615R	15	4	15 mm	6	50
H620R	20	6.3	15 mm	6	100
H625R	25	10	15 mm	6	100
H632R	32	16	15 mm	6	100
H640R	40	25	15 mm	6	100
H650R	50	40	15 mm	6	100
H664R	65	58	18 mm	6	100
H679R	80	90	18 mm	6	100
H6100R	100	145	30 mm	6	100

Technical data

Functional data	Fluid	Cold and warm water, water with glycol up to max. 50% vol.
	Fluid temperature	5...120 °C
	Fluid temperature note	-10 °C with stem heating
	Permissible operating pressure ps	600 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	Top (▲)
	Pipe connectors	Flange PN 6 according to ISO 7005-2
	Installation position	upright to horizontal (in relation to the stem)
	Servicing	maintenance-free
Materials	Housing	EN-GJL-250 (GG 25), with protective paint
	Closing element	Stainless steel
	Stem	Stainless steel
	Stem seal	EPDM O-ring
	Seat	GG25 / Niro (Bypass)

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

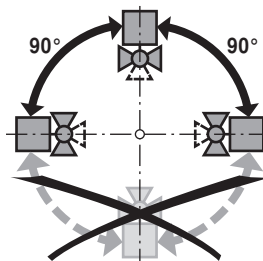
Mode of operation	The globe valve is adjusted by a globe valve actuator. The actuators are connected by a commercially available modulating or 3-point control system and move the valve cone, which acts as a throttling device, into the opening position dictated by the positioning signal.
Flow characteristic	An equal percentage flow characteristic is produced by the profile of the valve cone.

Accessories

	Description	Type
Electrical accessories	Stem heating DN 15...50 (45 W)	ZH24-1
	Stem heating DN 65...150 (60 W)	ZH24-1-C

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.

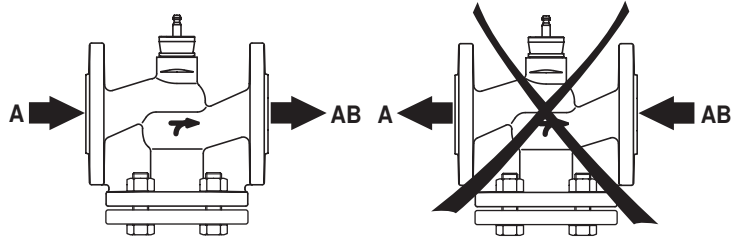


Water quality requirements The water quality requirements specified in VDI 2035 must be adhered to. Belimo valves are regulating devices. For the valves to function correctly in the long term, they must be kept free from particle debris (e.g. welding beads during installation work). The installation 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.

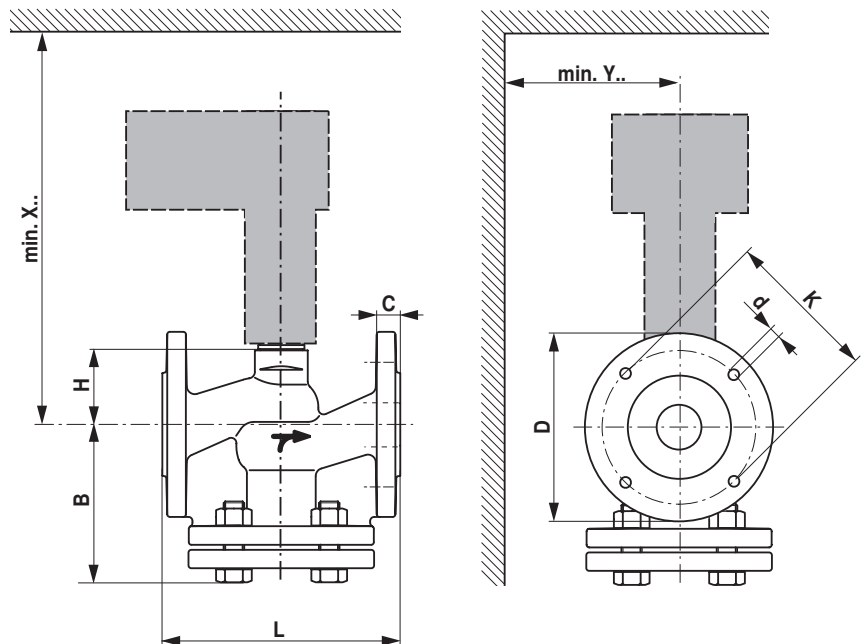
Installation notes

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.



Dimensions / Weight

Dimensional drawings



X/Y: Minimum distance with respect to the valve centre.
The actuator dimensions can be found on the respective actuator data sheet.

Type	DN []	L [mm]	B [mm]	H [mm]	C [mm]	D [mm]	d [mm]	K [mm]	X [mm]	Y [mm]	Weight
H611R	15	130	86	46	12	80	4 x 11	55	290	100	3.2 kg
H612R	15	130	86	46	12	80	4 x 11	55	290	100	3.2 kg
H613R	15	130	86	46	12	80	4 x 11	55	290	100	3.2 kg
H614R	15	130	86	46	12	80	4 x 11	55	290	100	3.2 kg
H615R	15	130	86	46	12	80	4 x 11	55	290	100	3.2 kg
H620R	20	150	93	46	14	90	4 x 11	65	290	100	4.5 kg
H625R	25	160	98	52	14	100	4 x 11	75	300	100	5.1 kg
H632R	32	180	119	56	16	120	4 x 14	90	300	100	7.0 kg
H640R	40	200	124	64	16	130	4 x 14	100	310	100	9.3 kg
H650R	50	230	124	64	16	140	4 x 14	110	310	100	11 kg
H664R	65	290	144	100	16	160	4 x 14	130	350	100	18 kg
H679R	80	310	158	110	18	190	4 x 18	150	360	100	24 kg
H6100R	100	350	178	125	18	210	4 x 18	170	475	120	31 kg

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