

Globe valve, 3-way, Flange, PN 16

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



Type overview					
Туре	DN []	kvs [m³/h]	Stroke [mm]	PN []	Sv min.
H711N	15	0.63	15	16	50
H712N	15	1	15	16	50
H713N	15	1.6	15	16	50
H714N	15	2.5	15	16	50
H715N	15	4	15	16	50
H720N	20	6.3	15	16	100
H725N	25	10	15	16	100
H732N	32	16	15	16	100
H740N	40	25	15	16	100
H750N	50	40	15	16	100
H764N	65	58	18	16	100
H765N	65	63	30	16	100
H779N	80	90	18	16	100
H780N	80	100	30	16	100
H7100N	100	145	30	16	100
H7125N	125	220	40	16	100
H7150N	150	320	40	16	100

Technical data

Functional of	data
---------------	------

Media	Cold and warm water, water with glycol up to
Wedia	max. 50% vol.
Medium temperature	5120°C
Medium temperature note	-10°C with stem heating
Permissible pressure ps	1600 kPa
Flow characteristic	Control path A – AB: equal percentage (VDI/ VDE 2173) n(gl) = 3, optimised in the opening range, Bypass B – AB: linear (VDI/VDE 2173)
Leakage rate	Control path A - AB: max. 0.05% of the kvs value, Bypass B - AB: max. 1% of the kvs value
Pipe connectors	Flange according to ISO 7005-2 (PN 16)
Closing point	Top (▲)
Installation position	Upright to horizontal (in relation to the stem)
Maintenance	Maintenance-free
Housing	EN-JL1040 (GG25), with protective paint
Closing element	Stainless steel
Stem	Stainless steel
Stem seal	EPDM O-ring
Seat	GG25 / Niro (Bypass)

Safety notes



Materials

- The valve has been designed for use in stationary heating, ventilation and airconditioning 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.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.



Safety notes

- 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 controlled by a commercially available modulating or 3-point control system and move the valve cone, which acts as a mixing device, to the opening position dictated by the positioning signal.

Flow characteristic

An equal percentage flow characteristic in the flow direction is produced by the profile of the valve cone. The bypass exhibits a linear characteristic curve.

Accessories

Electrical	accesso	ries
Liecuitai	accesso	1163

Description	туре
Stem heating DN 15-50 (45W)	ZH24-1
Stem heating DN 65-100 (60W)	ZH24-1-C
Stem heating DN 125-250 (60W)	ZH24-1-D

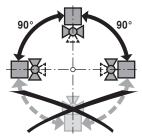
Mechanical accessories

Туре	
ZH715	
ZH720	
ZH725	
ZH732	
ZH740	
ZH750	
ZH765	
ZH780	
ZH7100	
ZH7125	
ZH7150	
	ZH715 ZH720 ZH725 ZH732 ZH740 ZH750 ZH765 ZH780 ZH7100 ZH7125

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 suitable strainer is recommended.



Installation notes

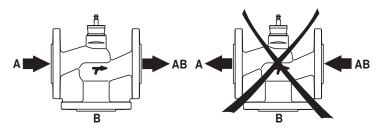
Maintenance

Globe valves and globe valve actuators are maintenance-free.

Before any kind of service work is carried out on the actuator, it is essential to isolate the globe valve actuator from the power supply (by disconnecting the electrical cables if necessary). Any pumps in the part of the piping system concerned must also be switched off and the appropriate shut-off valves closed (allow everything to cool down first if necessary and 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 mounted properly in accordance with the instructions and the pipes have been refilled in the proper manner.

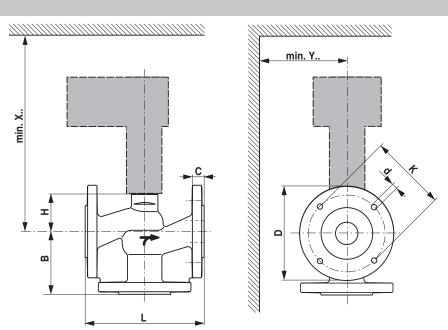
Flow direction

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.

Туре	DN []	L [mm]	B [mm]	H [mm]	C [mm]	D [mm]	d [mm]	K [mm]	X [mm]	Y [mm]	Weight approx. [kg]
H711N	15	130	65	46	14	95	4 x 14	65	290	100	2.6
H712N	15	130	65	46	14	95	4 x 14	65	290	100	2.6
H713N	15	130	65	46	14	95	4 x 14	65	290	100	2.6
H714N	15	130	65	46	14	95	4 x 14	65	290	100	2.6
H715N	15	130	65	46	14	95	4 x 14	65	290	100	2.6
H720N	20	150	70	46	16	105	4 x 14	75	290	100	4
H725N	25	160	75	52	16	115	4 x 14	85	300	100	5
H732N	32	180	95	56	18	140	4 x 18	100	300	100	7.5
H740N	40	200	100	64	18	150	4 x 18	110	310	100	9.5
H750N	50	230	100	64	20	165	4 x 18	125	310	100	12.4
H764N	65	290	120	100	20	185	4 x 18	145	350	100	19.1
H765N	65	290	120	100	20	185	4 x 18	145	450	150	19.2
H779N	80	310	130	110	22	200	8 x 18	160	360	150	24
H780N	80	310	130	110	22	200	8 x 18	160	460	150	24



Dimensions / Weight											
Туре	DN []	L [mm]	B [mm]	H [mm]	C [mm]	D [mm]	d [mm]	K [mm]	X [mm]	Y [mm]	Weight approx. [kg]
H7100N	100	350	150	125	24	220	8 x 18	180	480	150	34
H7125N	125	400	200	154	26	250	8 x 18	210	530	150	57
H7150N	150	480	210	178	26	285	8 x 22	240	550	150	88

Further documentation

- · Overview Valve-actuator combinations
- 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