

Globe valve, 2-way, Flange, PN 16

For closed cold and warm water systemsFor modulating control of air-handling and

heating systems on the water side



Type overview

Туре	DN	kvs	Stroke	PN	n(gl)	Sv min.
51		[m³/h]				
H611N	15	0.63	15 mm	16	3	50
H612N	15	1	15 mm	16	3	50
H613N	15	1.6	15 mm	16	3	50
H614N	15	2.5	15 mm	16	3	50
H615N	15	4	15 mm	16	3	50
H620N	20	6.3	15 mm	16	3	100
H625N	25	10	15 mm	16	3	100
H632N	32	16	15 mm	16	3	100
H640N	40	25	15 mm	16	3	100
H650N	50	40	15 mm	16	3	100
H664N	65	58	18 mm	16	3	100
H665N	65	63	30 mm	16	3	100
H679N	80	90	18 mm	16	3	100
H680N	80	100	30 mm	16	3	100
H6100N	100	145	30 mm	16	3	100

Technical data

Functional data	Fluid	Cold and warm water, water with glycol up to max. 50% vol.							
	Fluid temperature	-10120°C							
	Fluid temperature note	At a fluid temperature of -105°C, a stem heating is recommended.							
	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 connection	Flange PN 16 according to ISO 7005-2							
	Installation position	upright to horizontal (in relation to the stem)							
	Servicing	maintenance-free							
Materials	Valve body	EN-GJL-250 (GG 25)							
	Body finish	with protective paint							
	Closing element	Stainless steel							
	Stem	Stainless steel							
	Stem seal	EPDM O-ring							
	Seat	GG25 / Niro (Bypass)							

Safety notes

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Technical data sheet

Ţ	 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 operatio	n The globe valve is adjusted by a globe valve actuator. The actuato available modulating or 3-point control system and move the valv into the opening position dictated by the positioning signal.							
Flow characterist	c An equal percentage flow characteristic is produced by the profile	e of the valve cone.						
Accessories								
Electrical accessorie	s Description	Туре						
	Stem heating DN 1550 (45 W) Stem heating DN 65150 (60 W)	ZH24-1 ZH24-1-C						
Installation notes								
Recommended installation position	s The globe valve may be mounted upright to horizontal. It is not private with the spindle pointing downwards.	ermissible to mount the globe valves						
Water quality requirement								
	Belimo valves are regulating devices. For the valves to function co kept free from particle debris (e.g. welding beads during installat strainer is recommended.							
Servicin	 Globe valves and globe valve actuators are maintenance-free. Before any service work on the final controlling device is carried or valve actuator from the power supply (by unplugging the electrical part of the piping system concerned must also be switched off and (allow all components to cool down first if necessary and always repressure level). The system must not be returned to service until the globe valve areassembled correctly in accordance with the instructions and the professionally trained personnel. 	al cables if necessary). Any pumps in the d the appropriate slide valves closed reduce the system pressure to ambient and the globe valve actuator have been						
Flow directio	The direction of flow, specified by an arrow on the housing, is to be valve could become damaged.	be complied with, since otherwise the						

Differential and close-off pressure

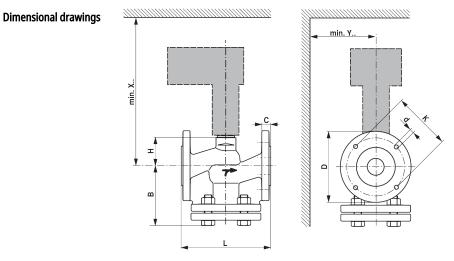


Technical data sheet

The maximum differential and close-off pressure of globe valves depends on the mounted globe valve actuator. To ensure optimum operation and maximum service life, the maximum differential and close-off pressure in the table below must not be exceeded.

ps <1600 kPa (PN16) t= +5 +120°C		LVA 500N		NVA 1000N		SVA 1500N		AVKA 2000N		EVA 2500N		RVA 4500N	
H611N 15N	15	1300	400	1600	400	1600	400						
H620N	20	900	400	1600	400	1600	400						
H625N	25	500	400	1300	400	1600	400						
H632N	32	350	350	1000	400	1600	400						
H640N	40	150	150	500	400	900	400						
H650N	50	70	70	300	300	550	400						
H664N	65			140	140	280	280						
H665N	65							400	400	550	400	1100	400
H679N	80			80	80	160	160						
H680N	80							250	250	350	350	700	400
H6100N	100							150	150	200	200	450	400

Dimensions



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]	
H611N	15	130	89	46	14	95	4 x 14	65	290	100	4.2
H612N	15	130	89	46	14	95	4 x 14	65	290	100	4.2
H613N	15	130	89	46	14	95	4 x 14	65	290	100	4.2
H614N	15	130	89	46	14	95	4 x 14	65	290	100	4.2
H615N	15	130	89	46	14	95	4 x 14	65	290	100	4.7
H620N	20	150	96	46	16	105	4 x 14	75	290	100	5.9
H625N	25	160	101	52	16	115	4 x 14	85	300	100	7.6
H632N	32	180	123	56	18	140	4 x 18	100	300	100	11
H640N	40	200	128	64	18	150	4 x 18	110	310	100	13
H650N	50	230	130	64	20	165	4 x 18	125	310	100	18
H664N	65	290	150	100	20	185	4 x 18	145	350	100	25
H665N	65	290	150	100	20	185	4 x 18	145	450	150	24
H679N	80	310	162	110	22	200	8 x 18	160	360	150	30
H680N	80	310	162	110	22	200	8 x 18	160	460	150	30
H6100N	100	350	182	125	24	220	8 x 18	180	480	150	41

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

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