

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

heating systems on the water side

# Technical data sheet

## Type overview

Туре	DN	kvs [m³/h]	Stroke	PN	n(gl)	Sv min.
H711R	15	0.63	15 mm	6	3	50
H712R	15	1	15 mm	6	3	50
H713R	15	1.6	15 mm	6	3	50
H714R	15	2.5	15 mm	6	3	50
H715R	15	4	15 mm	6	3	50
H720R	20	6.3	15 mm	6	3	100
H725R	25	10	15 mm	6	3	100
H732R	32	16	15 mm	6	3	100
H740R	40	25	15 mm	6	3	100
H750R	50	40	15 mm	6	3	100
H764R	65	58	18 mm	6	3	100
H779R	80	90	18 mm	6	3	100
H7100R	100	145	30 mm	6	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	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						
	Closing point	Top ( 🔺 )						
	Pipe connection	Flange PN 6 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



Technical data sheet

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 bybass exhibits a linear characteristic curve.         ccccssories       Electrical accessories       Electrical accessories         Recommended installation position       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 requirement         Note of uplay in the spindle pointing downwards.       The water quality requirements specified in VD12035 must be adhered to.         Beimo valves are regulating devices. For the valves for function correctly in the long term, they must be keys trainer is recommended.       Serviding         Serviding       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 isolete the globe valve actuator from the power suppit (ynuplugging the devicial calabes if avalues of the pays of the pays or not work as a be switched off and the appropriate slide valves colled (allow all components to col down if rest in accessory. Any pumps in the part of the pipping system concerned must also be savitched off and the appropriate slide valve been result of the valve could become damaged.         Water quality requirement is not formations and the pippeline has b	Ŵ	<ul> <li>must not be used outside the specified field of application, especial means of transport.</li> <li>Only authorised specialists may carry out installation. All applicable regulations must be complied during installation.</li> <li>The valve does not contain any parts that can be replaced or repair.</li> <li>The valve may not be disposed of as household refuse. All locally v must be observed.</li> </ul>	Inly authorised specialists may carry out installation. All applicable legal or institutional installation egulations must be complied during installation. he valve does not contain any parts that can be replaced or repaired by the user. he valve may not be disposed of as household refuse. All locally valid regulations and requirements nust be observed. /hen determining the flow rate characteristic of controlled devices, the recognised directives must be							
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. 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.	Product features									
The bypass exhibits a linear characteristic curve.         cccessories       Description       Type         Stem heating DN 1550 (45 W) Stem heating DN 65150 (60 W)       2H24-1         nstallation 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.         Image: the spin of the	Mode of operation	available modulating or 3-point control system and move the valve of								
Electrical accessorie       Description       Type         Stem heating DN 1550 (45 W)       2H24-1         Stem heating DN 65150 (60 W)       2H24-1 C         Installation notes       The globe valve may be mounted upright to horizontal. It is not permissible to mount the globe valves with the spinale pointing downwards.       If the spinale 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 key for ter (mp 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 sile valves closed (allow all components to cool down first if necessary and always reduce the system pressure tawes profesionally trained personnel.         The valteretor       The system must not be returned to service until the globe valve and the globe valve cluator have been ressensible to recetly in accordance with the instructions and the pipeline has been reflied by profesionally trained personnel.         The value could become damaged.       The value could become damaged.         The system must not be returned to service until the globe valv	Flow characteristic		uced by the profile of the valve cone.							
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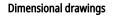


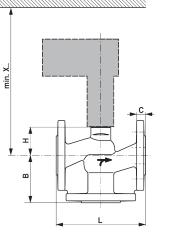
## **Technical data sheet**

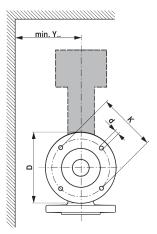
The maximum differential and close-off pressure of globe valves depends on the mounted globe valve actuator. To ensure optimum operation and maximum service life, the maximum differential and close-off pressure in the table below must not be exceeded.

ps <600 kPa (PN6) t= 5 120°C		LVA 500N		NVA 1000N		SVA 1500N		AVKA 2000N		EVA 2500N		RVA 4500N	
A B B	DN	∆ps [kPa]	∆pmax [kPa]	∆ps [kPa]	∆pmax [kPa]	∆ps [kPa]	∆pmax [kPa]	∆ps [kPa]	∆pmax [kPa]	∆ps [kPa]	∆pmax [kPa]	∆ps [kPa]	∆pmax [kPa]
H711R 15R	15	600	400	600	400	600	400						
H720R	20	600	400	600	400	600	400						
H725R	25	500	400	600	400	600	400						
H732R	32	350	350	600	400	600	400						
H740R	40	150	150	500	400	600	400						
H750R	50	70	70	300	300	550	400						
H764R	65			140	140	280	280						
H779R	80			80	80	160	160						
H7100R	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	B	H	<b>C</b>	D	d	K	X	Y	A kg
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	<u>/ "g 1</u>
H711R	15	130	65	46	12	80	4 x 11	55	290	100	2.6
H712R	15	130	65	46	12	80	4 x 11	55	290	100	2.6
H713R	15	130	65	46	12	80	4 x 11	55	290	100	2.6
H714R	15	130	65	46	12	80	4 x 11	55	290	100	2.6
H715R	15	130	65	46	12	80	4 x 11	55	290	100	3.3
H720R	20	150	70	46	14	90	4 x 11	65	290	100	3.9
H725R	25	160	75	52	14	100	4 x 11	75	300	100	4.8
H732R	32	180	95	56	16	120	4 x 14	90	300	100	6.3
H740R	40	200	100	64	16	130	4 x 14	100	310	100	8.2
H750R	50	230	100	64	16	140	4 x 14	110	310	100	9.3
H764R	65	290	120	100	16	160	4 x 14	130	350	100	15
H779R	80	310	130	110	18	190	4 x 18	150	360	100	21
H7100R	100	350	150	125	18	210	4 x 18	170	475	120	27

#### **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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