

Globe valve, 3-way, Flange, PN 16

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



Type overview

Туре	DN	Kvs [m³/h]	Stroke	PN	n(gl)	Sv min.	
H715S	15	4	20 mm	16	3	50	
H720S	20	6.3	20 mm	16	3	100	
H725S	25	10	20 mm	16	3	100	
H732S	32	16	20 mm	16	3	100	
H740S	40	25	20 mm	16	3	100	
H750S	50	40	20 mm	16	3	100	
H765S	65	63	30 mm	16	3	100	
H780S	80	100	30 mm	16	3	100	
H7100S	100	160	30 mm	16	3	100	
H7125S	125	220	40 mm	16	3	100	
H7150S	150	320	40 mm	16	3	100	

Technical data

Functional data	Fluid	Cold and warm water, water with glycol up to max. 50% vol.					
	Fluid temperature	5150°C [41302°F]					
	Fluid temperature note	120°C up to 1600 kPa 150°C up to 1400 kPa					
	Flow characteristic	Control path A – AB: equal percentage (VDI/ VDE 2173), 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 according to ISO 7005-2					
	Installation orientation	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					
	Spindle	Stainless steel					
	Spindle seal	PTFE V-ring					
	Seat	Stainless steel					

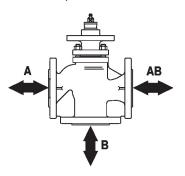


Safety notes							
Â	 The valve has been designed for use in stationary heating, ven systems and must not be used outside the specified field of ap or in any other airborne means of transport. Only authorised specialists may carry out installation. All applic installation regulations must be complied with during installat The valve does not contain any parts that can be replaced or re The valve may not be disposed of as household refuse. All loca requirements must be observed. When determining the flow rate characteristic of controlled de directives must be observed. 	of application, especially in aircrat applicable legal or institutional tallation. l or repaired by the user. l locally valid regulations and					
Product features							
Operating mode	The globe valve is adjusted by a globe valve actuator. The actuat commercially available modulating or 3-point control system an acts as a mixing device, to the opening position dictated by the o	d move the valve cone, which					
Flow characteristic	An equal percentage flow characteristic in the flow direction is p valve cone. The bypass exhibits a linear characteristic curve.	roduced by the profile of the					
Fluid velocity	Standard values for low-noise operation in HVAC systems are medium velocities of 12 m/s. At fluid velocities above 2 m/s, further flow effects as well as cavitation can occur. This can reduce the service life of a valve depending on the situation.						
Accessories							
Electrical accessories	Description Stem heater for LV, NV, SV actuator, AC/DC 24 V, 30 W	Туре ZH24-1-A					
Installation notes							
Permissible installation orientation	The globe valve may be mounted upright to horizontal. It is not globe valves with the stem pointing downwards.	permissible to mount the					
Water quality requirements	The water quality requirements specified in VDI 2035 must be ac Belimo valves are regulating devices. For the valves to function of must be kept free from particle debris (e.g. welding beads durin installation of a suitable strainer is recommended.	correctly in the long term, they					



Flow direction

The valve can be used as mixing valve A+B to AB and as diverting valve AB to A+B. The maximum pressure values are lower in diverting mode than in mixed mode (see mounting instructions).



Differential and close-off pressure

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.

Mixing

ps <1600 kPa (PN16) t= 5 120°C ps <1400 kPa (PN16) t= 121 150°C		NV. 100	.A 00N		.A)0N	AVKA 2000N		EVA 2500N		RVA 4500N	
A	DN	∆ps [kPa]	∆pmax [kPa]	∆ps [kPa]	∆pmax [kPa]	∆ps [kPa]	Δpmax [kPa]	∆ps [kPa]	∆pmax [kPa]	∆ps [kPa]	∆pmax [kPa]
H715S	15	1600	1000	1600	1000						
H720S	20	1600	1000	1600	1000						
H725S	25	1300	1000	1600	1000						
H732S	32	900	900	1500	1000						
H740S	40	500	500	800	800						
H750S	50	300	300	500	500						
H765S	65					400	400	500	500	1100	1000
H780S	80					250	250	350	350	700	700
H7100S	100					150	150	200	200	450	450
H7125S	125							135	135	310	310
H7150S	150							90	90	220	220

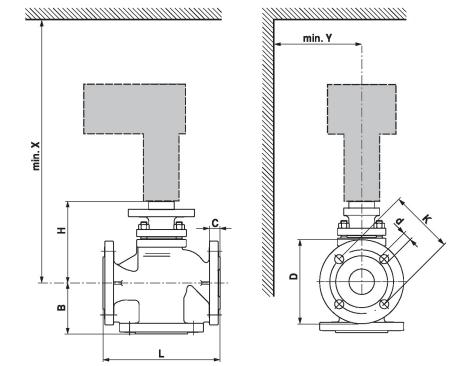
Diverting

ps <1600 kPa (PN16) t= 5 120°C ps <1400 kPa (PN16) t= 121 150°C		NV. 100	.A 00N		.A)0N	AVKA 2000N		EVA 2500N		RVA 4500N	
A	DN	∆ps [kPa]	Δpmax [kPa]	∆ps [kPa]	∆pmax [kPa]	∆ps [kPa]	Δpmax [kPa]	∆ps [kPa]	∆pmax [kPa]	∆ps [kPa]	Δpmax [kPa]
H715S	15	400	250	400	250						
H720S	20	400	250	400	250						
H725S	25	325	250	400	250						
H732S	32	225	225	375	250						
H740S	40	125	125	200	200						
H750S	50	75	75	125	125						
H765S	65					100	100	125	125	275	275
H780S	80					63	63	88	88	175	175
H7100S	100					38	38	50	50	113	113
H7125S	125							34	34	78	78
H7150S	150							23	23	55	55



Dimensions

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	В	н	С	D	d	К	х	Y	മ
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	kg
H715S	15	130	65	116	14	95	4 x 14	65	370	100	5.1
H720S	20	150	70	115	16	105	4 x 14	75	370	100	6.1
H725S	25	160	75	131	16	115	4 x 14	85	390	100	7.1
H732S	32	180	80	157	18	140	4 x 18	100	420	100	9.7
H740S	40	200	90	162	18	150	4 x 18	110	430	100	13
H750S	50	230	100	160	20	165	4 x 18	125	430	100	17
H765S	65	290	120	199	20	185	4 x 18	145	550	150	24
H780S	80	310	130	215	22	200	8 x 18	160	570	150	30
H7100S	100	350	150	234	24	220	8 x 18	180	590	150	47
H7125S	125	400	200	281	27	250	8 x 18	210	640	180	67
H7150S	150	480	210	343	27	285	8 x 22	240	680	215	91

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