BELIMO

Technical data sheet H7..W..S7

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**

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Type overview

Type	DN [ ]	kvs [m³/h]	Stroke [mm]	PN [ ]	Sv min. [ ]
H7200W630-S7	200	630	65	16	30
H7250W1000-S7	250	1000	65	16	30

Technical data

Functional data	Media	Cold and warm water, water with glycol up to max. 50% vol.
	Medium temperature	5...120°C
	Medium temperature note	-10°C with stem heating
	Permissible pressure ps	1600 kPa
	Flow characteristic	Control path A – AB: linear (VDI/VDE 2173), 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
Materials	Housing	EN-JL1040 (GG25), with protective paint
	Closing element	Stainless steel
	Stem	Stainless steel
	Stem seal	EPDM ring
	Seat	Stainless steel

Safety notes

- The valve has been designed for use in stationary heating, ventilation and air-conditioning 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.
- 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.

H7..W..S7

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Product features

Notes

- Large globe valve and long stroke actuator are supplied pre-mounted.
- These valves are fabricated only when orders are received.

Mode of operation

The large globe valve is adjusted by a long stroke 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

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

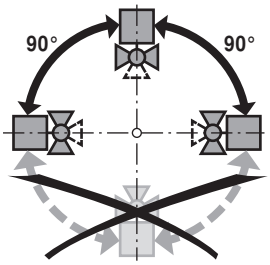
Accessories

	Description	Type
Electrical accessories	Stem heating DN 125-250 (60W)	ZH24-1-D

Installation notes

Recommended installation positions

The large globe valves may be mounted from upright to horizontal. It is not permissible to mount the large globe valves with the spindle pointing downwards.



Water quality requirements

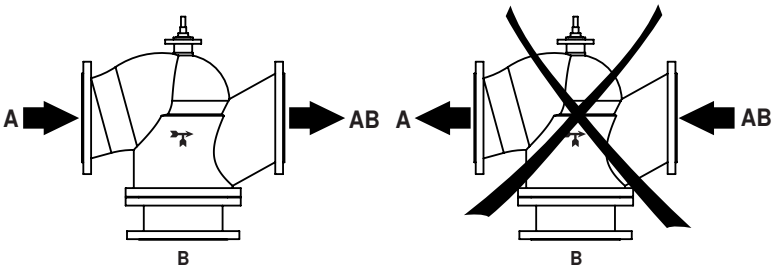
The water quality requirements specified in VDI 2035 must be adhered to.
Belimo valves are regulating devices. For the valves to function correctly in the long term, they must be kept free from particle debris (e.g. welding beads during installation work).
The installation of suitable strainer is recommended.

Maintenance

Large globe valves and long stroke actuators are maintenance-free.
Before any kind of service work is carried out on actuator, it is essential to isolate the long stroke actuator from the power supply (by disconnecting the power lead if required). 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 large globe valve and the long stroke actuator have been properly reinstalled 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.



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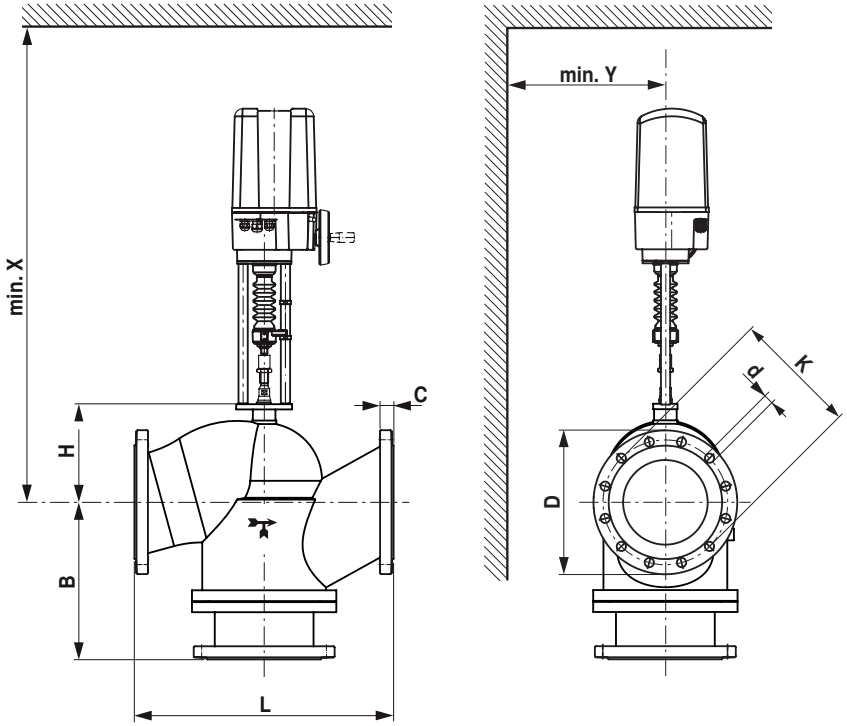
Dimensions / Weight

Dimensional drawings



X/Y: Minimum distance with respect to the valve centre with long stroke actuator GV.
Weight including GV.. long stroke actuator
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 approx. [kg]
H7200W630-S7	200	600	380	315	30	340	12 x 22	295	1210	200	200
H7250W1000-S7	250	730	440	375	32	405	12 x 26	355	1270	250	350

Further documentation

- Overview Valve-actuator combinations
- Data sheets for long stroke actuators
- Installation instructions for valves and/or long stroke actuators
- Notes for project planning 2-way and 3-way globe valves

H7..N

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Dimensions / Weight

Type	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	281	26	250	8 x 18	210	640	150	57
H7150N	150	480	210	343	26	285	8 x 22	240	710	150	88

Further documentation

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H6..N

H7..N

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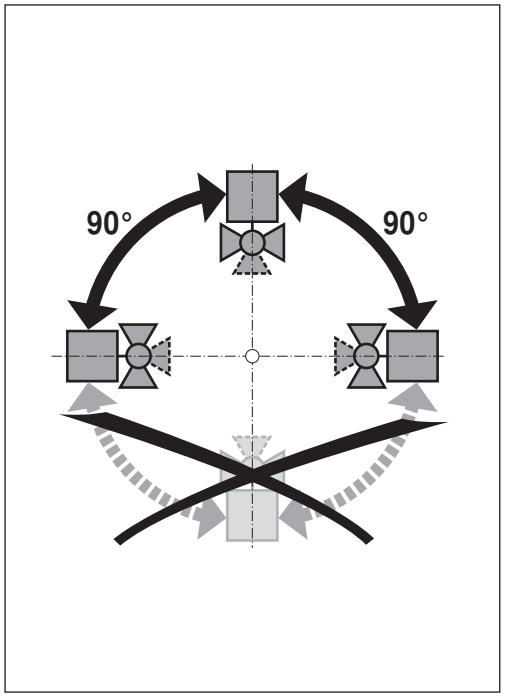

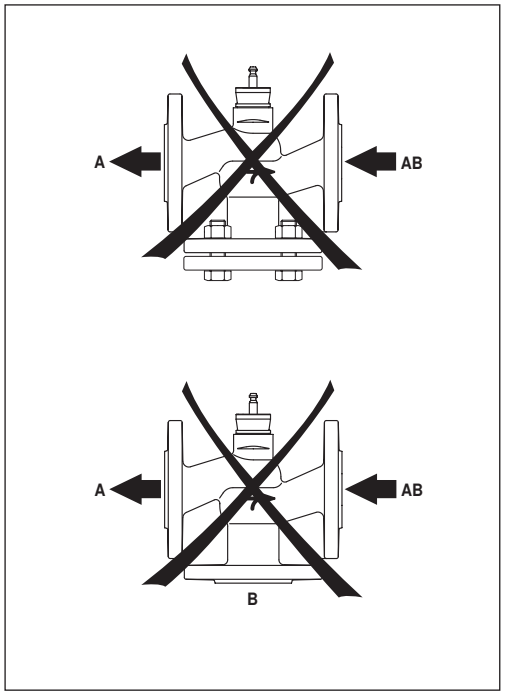

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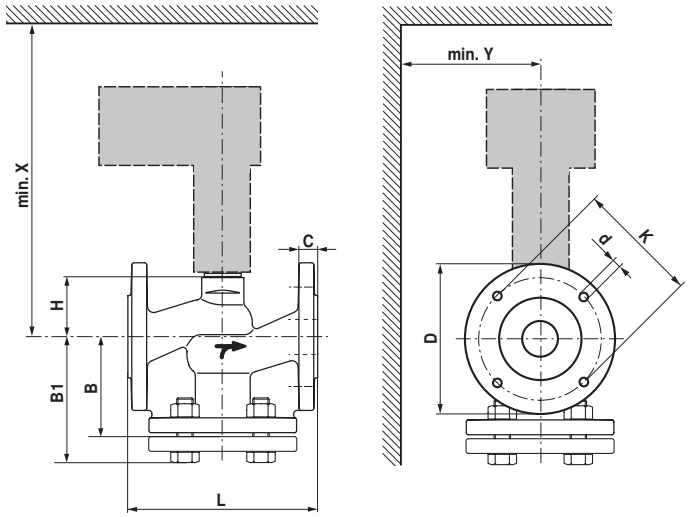

H6..N / H7..N

ps <1600 kPa (PN16) t= +5... +120°C		H6..N		H7..N		LV..A.. 500N		NV..A.. 1000N		SV..A.. 1500N		AVK..A.. 2000N		EV..A.. 2500N		RV..A.. 4500N									
DN	**Hub / Stroke** [mm]	A AB	**B1** [mm]	A AB B	**B** [mm]	**Δps** [kPa]	**Δpmax** [kPa]	**Δps** [kPa]	**Δpmax** [kPa]	**Δps** [kPa]	**Δpmax** [kPa]	**Δps** [kPa]	**Δpmax** [kPa]	**Δps** [kPa]	**Δpmax** [kPa]	**Δps** [kPa]	**Δpmax** [kPa]	**L** [mm]	**H** [mm]	**D** [mm]	**K** [mm]	**d** [mm]	**C** [mm]	**X** [mm]	**Y** [mm]
15	15	H611N ... 15N	89	H711N ... 15N	65	1300	400	1600	400	1600	400							130	46	95	65	4 x 14	14	290	100
20	15	H620N	96	H720N	70	900	400	1600	400	1600	400							150	46	105	75	4 x 14	16	290	100
25	15	H625N	101	H725N	75	500	400	1300	400	1600	400							160	52	115	85	4 x 14	16	300	100
32	15	H632N	123	H732N	95	350	350	1000	400	1600	400							180	56	140	100	4 x 18	18	300	100
40	15	H640N	128	H740N	100	150	150	500	400	900	400							200	64	150	110	4 x 18	18	310	100
50	15	H650N	130	H750N	100	70	70	300	300	550	400							230	64	165	125	4 x 18	20	310	100
65	18	H664N	150	H764N	120			140	140	280	280							290	100	185	145	4 x 18	20	350	100
65	30	H665N	150	H765N	120							400	400	550	400	1100	400	290	100	185	145	4 x 18	20	450	150
80	18	H679N	162	H779N	130			80	80	160	160							310	110	200	160	8 x 18	22	360	150
80	30	H680N	162	H780N	130							250	250	350	350	700	400	310	110	200	160	8 x 18	22	460	150
100	30	H6100N	182	H7100N	150							150	150	200	200	450	400	350	125	220	180	8 x 18	24	480	150
125	40			H7125N	200									130	130	290	290	400	281	250	210	8 x 18	26	640	150
150	40			H7150N	210									80	80	190	190	480	343	285	240	8 x 22	26	710	150