

Open/close ball valve, 2-way, Flange, PN 6

- For open and closed cold and warm water systems
- For shut-off functions on the water side and 2-point controls in air-handling units and heating systems.
- Air-bubble tight


Type overview

Type	DN []	DN ["]	kvs [m ³ /h]	PN []
R6015R-B1	15	1/2	15	6
R6020R-B1	20	3/4	32	6
R6025R-B2	25	1	26	6
R6032R-B3	32	1 1/4	32	6
R6040R-B3	40	1 1/2	31	6
R6050R-B3	50	2	49	6

Technical data

Functional data	Fluid	Cold and warm water, water with glycol up to max. 50% vol.
Fluid temperature		-10...100°C
Fluid temperature note		At a fluid temperature of -10...2°C, a stem heating or a valve neck extension is recommended. The allowed fluid temperature can be limited, depending on the type of actuator. Limitations can be found in the respective data sheets of the actuators.
Permissible operating pressure ps		600 kPa
Close-off pressure Δps		600 kPa
Differential pressure Δpmax		100 kPa
Leakage rate		air-bubble tight, leakage rate A (EN 12266-1)
Angle of rotation		90°
Pipe connectors		Flange PN 6 according to EN 1092-1/4
Installation position		upright to horizontal (in relation to the stem)
Servicing		maintenance-free
Materials	Housing	Nickel-plated brass body
Closing element		Chrome-plated brass
Stem		Nickel-plated brass
Stem seal		EPDM O-ring
Ball seat		PTFE, O-ring EPDM (DN 15) PTFE, O-ring Viton (DN 20) PTFE, O-ring EPDM (DN 25...50)
Flange ring		Galvanized steel (DN 15...20) Aluminium (DN 25...50)
Flange sealing surface		Nickel-plated brass

Safety notes



- 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

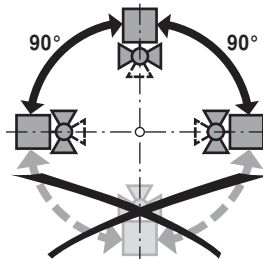
Mode of operation The open/close ball valve is adjusted by a rotary actuator. The rotary actuator is connected by an open/close signal. Open the ball valve counterclockwise and close it clockwise.

Accessories

	Description	Type
Electrical accessories	Stem heating DN 15...50 (20 W)	ZR24-2
	Description	Type
Mechanical accessories	Valve neck extension for ball valve DN15...50	ZR-EXT-01

Installation notes

Recommended installation positions The ball valve can be installed upright to horizontal. The ball valve may not be installed in a hanging position, i.e. with the stem pointing downwards.

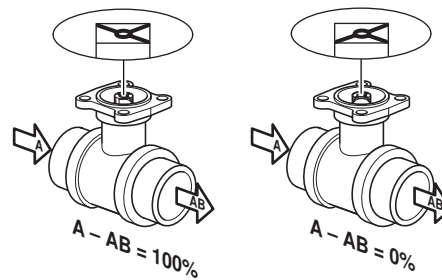


Water quality requirements The water quality requirements specified in VDI 2035 must be adhered to. Belimo valves are regulating devices. For the valves to function correctly in the long term, they must be kept free from particle debris (e.g. welding beads during installation work). The installation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

Servicing Ball valves and rotary actuators are maintenance-free. Before any service work on the final controlling device is carried out, it is essential to isolate the rotary actuator from the power supply (by unplugging the electrical cable if necessary). Any pumps in the part of the piping system concerned must also be switched off and the appropriate slide valves closed (allow all components to cool down first if necessary and always reduce the system pressure to ambient pressure level). The system must not be returned to service until the ball valve and the rotary actuator have been correctly reassembled in accordance with the instructions and the pipeline has been refilled by professionally trained personnel.

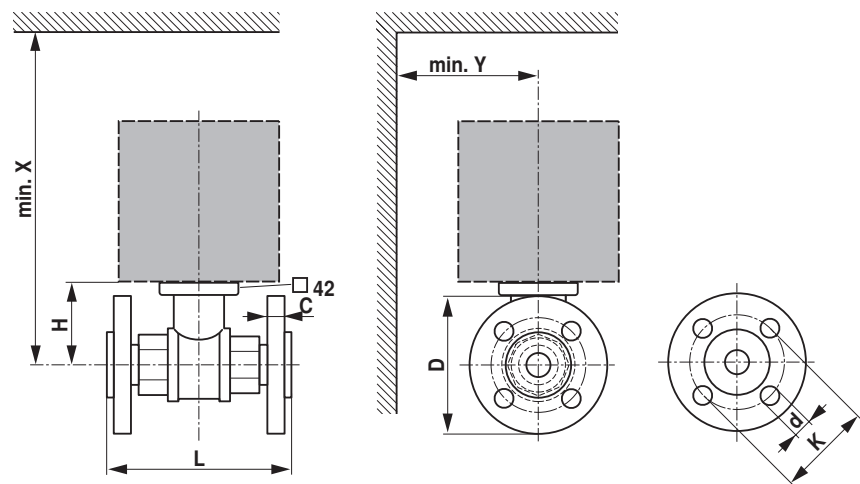
Installation notes

Flow direction The direction of flow, specified by an arrow on the housing, is to be complied with, since otherwise the ball valve could become damaged. Please ensure that the ball is in the correct position (marking on the spindle).



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.

Type	DN []	L [mm]	H [mm]	C [mm]	D [mm]	d [mm]	K [mm]	X [mm]	Y [mm]	Weight
R6015R-B1	15	101	44	10	80	4 x 11	55	230	90	1.2 kg
R6020R-B1	20	112	46	10	90	4 x 11	65	235	95	1.6 kg
R6025R-B2	25	132	46	14	100	4 x 11	75	235	100	1.4 kg
R6032R-B3	32	143	50.5	12	120	4 x 14	90	240	105	1.9 kg
R6040R-B3	40	151	50.5	12	130	4 x 14	100	240	110	2.3 kg
R6050R-B3	50	165	56	12	140	4 x 14	110	245	115	3.1 kg

Further documentation

- The complete product range for water applications
- Data sheets for actuators
- Installation instructions for actuators and/or ball valves
- General notes for project planning