

Open/close ball valve, 2-way, Internal thread

- · 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

Туре	kvs	DN	Rp	PN
	[ m³/h]	[]	["]	[]
R2015-S1	15	15	1/2	40
R2020-S1	15	20	3/4	40
R2020-S2	32	20	3/4	40
R2025-S2	26	25	1	40
R2032-S2	32	32	1 1/4	25
R2040-S2	31	40	1 1/2	25
R2050-S3	49	50	2	25

## **Technical data**

## **Functional data**

Media	Cold and warm water, water with glycol up to max. 50% vol.		
Medium temperature	-10120°C		
Medium temperature note	The allowed media temperature can be limited, depending		
	on the type of actuator. Limitations can be found in the		
	respective data sheets of the actuators.		
Closing pressure ∆ps	1400 kPa		
Differential pressure ∆pmax	1000 kPa		
Differential pressure note	200 kPa for low-noise operation		
Leakage rate	Leakage rate A, air-bubble-tight (EN 12266-1)		
Pipe connectors	Internal thread according to ISO 7-1		
Angle of rotation	90°		
Installation position	Upright to horizontal (in relation to the stem)		
Maintenance	Maintenance-free		
Housing	Brass body nickel-plated		
Closing element	Stainless steel		
Stem	Stainless steel		
Stem seal	O-ring EPDM		
Valve seat	PTFE, O-ring EPDM		

# Materials

<ul> <li>The valve has been designed for use in stationary heating, ventilation and air-conditioning</li> </ul>
systems and is not allowed to be used outside the specified field of application, especially
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- 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**

Safety notes

## 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

## **Mechanical accessories**

Description	Туре
Pipe connector to ballvalves DN 15 Rp 1/2"	ZR2315
Pipe connector to ballvalves DN 20 Rp 3/4"	ZR2320
Pipe connector to ballvalves DN 25 Rp 1"	ZR2325
Pipe connector to ballvalves DN 32 Rp 1 1/4"	ZR2332
Pipe connector to ballvalves DN 40 Rp 1 1/2"	ZR2340
Pipe connector to ballvalves DN 50 Rp 2"	ZR2350

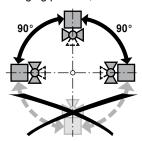




### Installation notes

## 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 suitable strainer is recommended.

### Maintenance

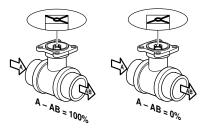
Ball valves and rotary actuators are maintenance-free.

Before any kind of service work is carried out on the actuator, it is essential to isolate the rotary actuator from the power supply (by unplugging the electrical cable). Any pumps in the part of the piping system concerned must also be switched off and the appropriate slide 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 ball valve and the rotary actuator have been properly reassembled in accordance with the instructions and the pipeline has been refilled in the proper manner.

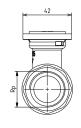
### Flow direction

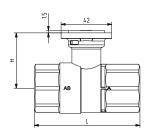
The direction of flow, specified by an arrow on the housing, is to be complied with, since otherwise the ball valve could become damaged. Please ensure that the ball is in the correct position (marking on the spindle).

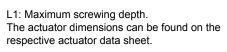


# **Dimensions [mm]**

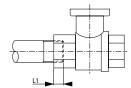
## **Dimensional drawings**











Туре	<b>DN</b> []	<b>Rp</b> ["]	<b>L</b> [ mm]	<b>L1</b> [ mm]	<b>H</b> [ mm]	Weight approx. [ kg]
R2015-S1	15	1/2	67	13	44	0.24
R2020-S1	20	3/4	79	14	44	0.37
R2020-S2	20	3/4	78	14	46	0.42
R2025-S2	25	1	87	16	46	0.50
R2032-S2	32	1 1/4	105	19	50.5	0.80
R2040-S2	40	1 1/2	111	19	50.5	0.91
R2050-S3	50	2	125	22	56	1.35