

Technical data sheet

Characterised control valve, 2-way, Flange, PN 6

- For open and closed cold and warm water systems
- For modulating control of airhandling and heating systems on the water side
- Air bubble tight



Type overview

Туре	DN []	kvs [m³/h]	PN []	Sv min.
R6015RP63-B1	15	0.63	6	50
R6015R1-B1	15	1	6	50
R6015R1P6-B1	15	1.6	6	50
R6015R2P5-B1	15	2.5	6	50
R6015R4-B1	15	4	6	100
R6020R6P3-B1	20	6.3	6	100
R6025R10-B2	25	10	6	100
R6032R16-B3	32	16	6	100
R6040R25-B3	40	25	6	100
R6050R40-B3	50	40	6	100

Technical data

Functional data	Media	Cold and warm water, water with glycol up to max. 50% vol.					
	Medium temperature	-10100°C					
	Medium temperature note	At a medium temperature of -102°C, a spindle heating or a valve neck extension is recommended.					
		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.					
	Permissible pressure ps	600 kPa					
	Closing pressure Δps	600 kPa					
	Differential pressure Apmax	100 kPa					
	Flow characteristic	equal percentage (VDI/VDE 2178), optimised in the opening range					
	Leakage rate	Leakage rate A, air-bubble-tight (EN 12266-1)					
	Pipe connector	Flange PN 6 according to EN 1092-1/4					
	Angle of rotation	90°					
	Angle of rotation note	Operating range 1590°					
	Installation position	Upright to horizontal (in relation to the stem)					
	Maintenance	Maintenance-free					
Materials	Housing	Brass body nickel-plated					
	Closing element	chrome-plated brass					
	Stem	Nickel-plated brass					
	Stem seal	O-ring EPDM					
	Ball seat	PTFE, O-ring EPDM (DN 15)					
		PTFE, O-ring Viton (DN 20) PTFE, O-ring EPDM (DN 2550)					
	Characterizing disk	TEFZEL					
	Flange ring	Galvanised steel (DN 1520) Aluminium (DN 2550)					
	Flange sealing surface	Nickel-plated brass					



Safety notes						
\bigwedge	 The valve has been designed for use in stational conditioning systems and must not be used outs especially in aircraft or in any other airborne meas. Only authorised specialists may carry out installations institutional installation regulations must be com. The valve does not contain any parts that can be. The valve may not be disposed of as household and requirements must be observed. When determining the flow rate characteristic of directives must be observed. 	side the specified field of application, ans of transport. ation. All applicable legal or plied during installation. e replaced or repaired by the user. refuse. All locally valid regulations				
Product features						
Mode of operation	The characterised control valve is adjusted by a rotary actuator. The actuator is controlled by a commercially available modulating or 3-point control system and moves the ball of the valve – the throttling device – to the position dictated by the positioning signal. Open the characterised control valve counterclockwise and close it clockwise.					
Flow characteristic	Equal percentage flow control is ensured by the integrated characterising disc.					
Accessories						
	Description	Туре				
Electrical accessories	Spindle heating DN 15-50 (20W)	ZR24-2				
	Description	Туре				
Mechanical accessories	Extension Kit	ZR-EXT-01				
nstallation notes						
Recommended installation positions	The ball valve can be installed upright to horizontal in a hanging position, i.e. with the stem pointing do 90°					
Water quality requirements	S 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-f Before any service work on the final controlling dev isolate the rotary actuator from the power supply (k if necessary). Any pumps in the part of the piping s switched off and the appropriate slide valves close down first if necessary and allways reduce the sys level). The system must not be returned to service until th have been correctly reassembled in accordance w has been refilled by professionally trained personn	vice is carried out, it is essential to by unplugging the electrical cable system concerned must also be ed (allow all components to cool tem pressure to ambient pressure ne ball valve and the rotary actuator rith the instructions and the pipeline				

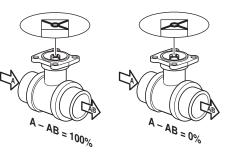


Installation notes

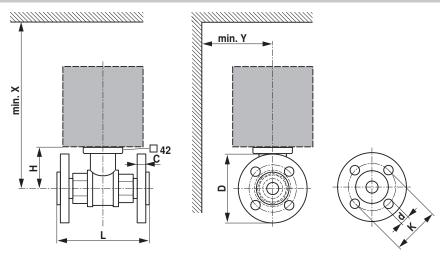
Flow direction

Dimensional drawings

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



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	н	С	D	d	К	Х	Υ	Weight
	[]	[mm]	[mm]	[mm]	[mm]	[kg]				
R6015RP63-B1	15	101	35	10	80	4 x 11	55	230	90	1.3
R6015R1-B1	15	101	35	10	80	4 x 11	55	230	90	1.3
R6015R1P6-B1	15	101	35	10	80	4 x 11	55	230	90	1.3
R6015R2P5-B1	15	101	44	10	80	4 x 11	55	230	90	1.3
R6015R4-B1	15	101	44	10	80	4 x 11	55	230	90	1.3
R6020R6P3-B1	20	112	46	10	90	4 x 11	65	235	95	1.6
R6025R10-B2	25	132	46	15	100	4 x 11	75	235	100	1.5
R6032R16-B3	32	143	50.5	12	120	4 x 14	90	240	105	2.2
R6040R25-B3	40	151	50.5	12	130	4 x 14	100	240	110	2.7
R6050R40-B3	50	165	56	12	140	4 x 14	110	245	115	3.4

Further documentation

- Overview Valve-actuator combinations
- Data sheets for actuators
- · Installation instructions for actuators and/or ball valves
- General notes for project planning