

## **Technical data sheet**

Changeover ball valve, 3-way, Flange, PN 6

- For closed cold and warm water systems
- For switching functions and 2-point controls on the water side of air-handling units and heating systems
- Air bubble-tight (control path A AB)



## Type overview

Туре	<b>DN</b> []	<b>DN</b> ["]	<b>kvs</b> [ m³/h]	<b>PN</b> []	
R7015R-B1	15	1/2	15	6	
R7020R-B1	20	3/4	32	6	
R7025R-B2	25	1	26	6	
R7032R-B3	32	1 1/4	32	6	
R7040R-B3	40	1 1/2	31	6	
R7050R-B3	50	2	49	6	

#### **Technical data**

Functional data	Fluid	Cold and warm water, water with glycol up to max. 50% vol.					
	Fluid temperature	-10100°C					
	Fluid temperature note	At a fluid temperature of -102°C, a					
	i luid temperature note	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 $\Delta pmax$	100 kPa					
	Flow	Bypass B – AB: Approx. 50% of kvs value					
	Leakage rate	Port A – AB: air-bubble tight, leakage rate A					
		(EN 12266-1); Bypass B – AB: Leakage class I					
		(EN 1349 and EN 60534-4) max. 1% of the kvs value					
	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 2550)					
	Flange ring	Galvanized steel (DN 1520)					
		Aluminium (DN 2550)					
	Flange sealing surface	Nickel-plated brass					



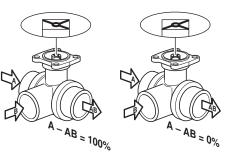
Λ	The valve has been designed for use in stationary he						
<u> /!\</u>	conditioning systems and must not be used outside the specified field of appli especially in aircraft or in any other airborne means of transport.						
	<ul> <li>Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.</li> </ul>						
	• The valve does not contain any parts that can be rep	laced or repaired by the use					
	<ul> <li>The valve may not be disposed of as household refuse. All locally va and requirements must be observed.</li> </ul>						
	<ul> <li>When determining the flow rate characteristic of cont directives must be observed.</li> </ul>	rolled devices, the recognise					
Product features							
Mode of operation	The open/close ball valve is adjusted by a rotary actual connected by an open/close signal. Open the ball valve clockwise.						
Accessories							
	Description	Туре					
Electrical accessories	Stem heating DN 1550 (20 W)	ZR24-2					
	Description	Туре					
Mechanical accessories	Description Valve neck extension for ball valve DN1550	Type ZR-EXT-01					
Mechanical accessories		ZR-EXT-01 e ball valve may not be insta					
Mechanical accessories	Valve neck extension for ball valve DN1550 The ball valve can be installed upright to horizontal. Th	ZR-EXT-01 e ball valve may not be insta					
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### Installation notes

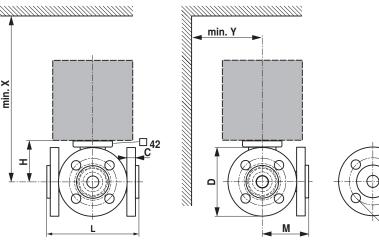
# Flow direction

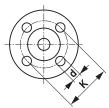
The direction of flow, specified by an arrow on the housing, is to be complied with, since otherwise the ball valve could become damaged. Please ensure that the ball is in the correct position (marking on the spindle).



#### **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.

Туре	DN	<b>L</b> [ mm]	<b>M</b> [mm]	<b>H</b> [ mm]	<b>C</b> [ mm]	<b>D</b> [ mm]	<b>d</b> [ mm]	<b>K</b> [ mm]	<b>X</b> [mm]	<b>Y</b> [mm]	Weight
	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	
R7015R-B1	15	101	73	44	10	80	4 x 11	55	230	90	1.6 kg
R7020R-B1	20	112	80	46	10	90	4 x 11	65	235	95	2.2 kg
R7025R-B2	25	132	92	46	14	100	4 x 11	75	235	100	2.0 kg
R7032R-B3	32	143	102.5	50.5	12	120	4 x 14	90	240	105	2.8 kg
R7040R-B3	40	151	105	50.5	12	130	4 x 14	100	240	110	3.6 kg
R7050R-B3	50	165	121	56	12	140	4 x 14	110	245	115	4.8 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