

# **Technical data sheet**

Characterised control valve, 2-way, Flange, PN 16

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



## Type overview

Туре	DN	kvs [m³/h]	PN	n(gl)	Sv min.
R6065W63-S8	65	63	16	3.2	100
R6080W100-S8	80	100	16	3.2	100
R6100W160-S8	100	160	16	3.2	100
R6125W250-S8	125	250	16	3.2	100
R6150W320-S8	150	320	16	3.2	100

#### **Technical data**

Functional data	Fluid	Cold and warm water, water with glycol up to max. 50% vol.					
	Fluid temperature	-10120°C [14248°F]					
	Close-off pressure Δps	690 kPa					
	Differential pressure Δpmax	400 kPa					
	Differential pressure note	200 kPa for low-noise operation					
	Flow characteristic	equal percentage (VDI/VDE 2178), optimised in the opening range					
	Leakage rate	air-bubble tight, leakage rate A (EN 12266-1)					
	Angle of rotation	90°					
	Angle of rotation note	Operating range 1590°					
	Pipe connection	Flange PN 16 according to EN 1092-2					
	Installation position	upright to horizontal (in relation to the stem)					
	Servicing	maintenance-free					
Materials	Valve body	EN-GJL-250 (GG 25)					
	Body finish	with protective paint					
	Closing element	Stainless steel AISI 316					
	Spindle	Stainless steel AISI 304					
	Spindle seal	EPDM					
	Seat	PTFE					
	Characterised disc	stainless steel					



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	<ul> <li>The valve has been designed for use in stationary heating, versistems and must not be used outside the specified field of ap in any other airborne means of transport.</li> <li>Only authorised specialists may carry out installation. All appli installation regulations must be complied during installation.</li> <li>The valve does not contain any parts that can be replaced or refurements must be observed.</li> <li>When determining the flow rate characteristic of controlled demust be observed.</li> </ul>	pplication, especially in aircraft or cable legal or institutional epaired by the user. illy valid regulations and
Product features		
Mode of operation	The characterised control valve is adjusted by a rotary actuator. commercially available modulating or 3-point control system an the throttling device – to the position dictated by the control sig control valve counterclockwise and close it clockwise.	d moves the ball of the valve –
Flow characteristic	Equal percentage flow control is ensured by the integrated char	acterising disc.
Accessories		
Electrical accessories	Description	Туре
	Stem heater flange F05 (30 W)	ZR24-F05
Installation notes		
	hanging position, i.e. with the spindle pointing downwards.	
Water quality requirements	The water quality requirements specified in VDI 2035 must be a Belimo valves are regulating devices. For the valves to function of	
	must be kept free from particle debris (e.g. welding beads durin installation of a suitable strainer is recommended.	
		ig installation work). The
Spindle heater	In cold water applications and warm humid ambient air can cau actuators. This can lead to corrosion in the gear box of the actua it. In such applications, the use of a spindle heater is provided.	se condensation in the ator and causes a breakdown of
Spindle heater	actuators. This can lead to corrosion in the gear box of the actua	se condensation in the ator and causes a breakdown of
Spindle heater Servicing	actuators. This can lead to corrosion in the gear box of the actua it. In such applications, the use of a spindle heater is provided. The spindle heater must be enabled only when the system is in	se condensation in the ator and causes a breakdown of

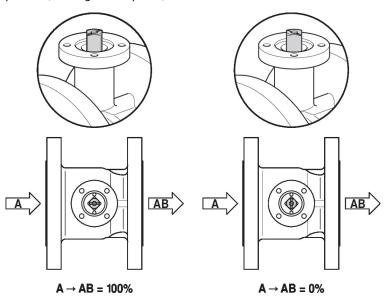


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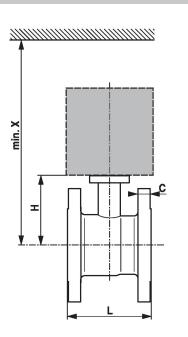
Flow direction

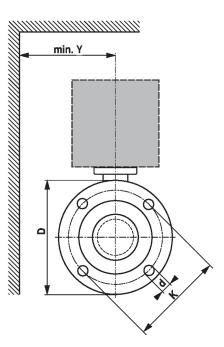
**Dimensional drawings** 

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





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 [mm]	H [mm]	<b>C</b> [mm]	<b>D</b> [mm]	<b>d</b> [mm]	<b>К</b> [mm]	<b>X</b> [mm]	<b>Y</b> [mm]	
R6065W63-S8	65	136.5	113	18.5	185	4 x 19	145	320	150	10
R6080W100-S8	80	168	113	20.5	200	8 x 19	160	320	160	14
R6100W160-S8	100	211	124	22	224	8 x 19	180	330	175	23
R6125W250-S8	125	262.5	143	22	252	8 x 19	210	350	190	31
R6150W320-S8	150	315	143	22	282	8 x 23	240	350	200	40

#### **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