R2..xx-S..

Characterised control valve, 2-way, Internal thread

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



BELIMO

Type overview

Туре	kvs	DN	Rp	PN	n(gl)	Sv min.
	[m³/h]	[]	["]	[]	[]	[]
R2015-P25-S1	0.25	15	1/2	40	3.2	50
R2015-P4-S1	0.4	15	1/2	40	3.2	50
R2015-P63-S1	0.63	15	1/2	40	3.2	50
R2015-1-S1	1	15	1/2	40	3.2	50
R2015-1P6-S1	1.6	15	1/2	40	3.2	50
R2015-2P5-S1	2.5	15	1/2	40	3.2	50
R2015-4-S1	4	15	1/2	40	3.2	100
R2015-6P3-S1	6.3	15	1/2	40	3.2	100
R2020-4-S1	4	20	3/4	40	3.2	100
R2020-6P3-S1	6.3	20	3/4	40	3.2	100
R2025-6P3-S2	6.3	25	1	40	3.2	100
R2025-10-S2	10	25	1	40	3.2	100
R2032-10-S2	10	32	1 1/4	25	3.2	100
R2032-16-S2	16	32	1 1/4	25	3.2	100
R2032-20-S2	20	32	1 1/4	25	3.2	100
R2040-16-S2	16	40	1 1/2	25	3.2	100
R2040-25-S2	25	40	1 1/2	25	3.2	100
R2050-25-S3	25	50	2	25	3.2	100
R2050-40-S3	40	50	2	25	3.2	100

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 Δps	1400kPa
	Differential pressure $\Delta pmax$	350kPa
	Differential pressure note	200kPa for low-noise operation
	Flow characteristic	Equal percentage (VDI/VDE 2178), optimised in
		the opening range
	Leakage rate	Leakage rate A, air-bubble-tight (EN 12266-1)
	Pipe connectors	Internal thread according to ISO 7-1
	Angle of rotation	90° (Operating range 1590°)
	Installation position	Upright to horizontal (in relation to the stem)
	Maintenance	Maintenance-free
Materials	Housing	Brass body nickel-plated
	Closing element	Stainless steel
	Stem	Stainless steel
	Stem seal	O-ring EPDM
	Valve seat	PTFE, O-ring EPDM
	Characterising disc	TEFZEL
	5	R2032-20-S2 has no characterising disc



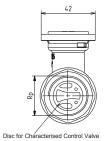
Safety notes				
$\underline{\wedge}$	 The valve has been designed for use in stationary heatin systems and is not allowed to be used outside the specif in aircraft or in any other airborne means of transport. Only authorised specialists may carry out installation. 	fied field of application, especiall		
	 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 replace The valve may not be disposed of as household refuse 			
	requirements must be observed.When determining the flow rate characteristic of cor			
	directives must be observed.	atolied devices, the recognise		
Product features				
Mode of operation	The characterised control valve is adjusted by a rotary actu by a commercially available modulating or 3-point control s valve – the throttling device – to the position dictated by the characterised control valve counterclockwise and close it c Equal percentage flow control is ensured by the integrated	ystem and moves the ball of the positioning signal. Open the lockwise.		
	Equal percentage now control is ensured by the integrated			
Accessories				
	Description	Туре		
Mechanical accessories	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				
Water quality requirements	The water quality requirements specified in VDI 2035 must Belimo valves are regulating devices. For the valves to func- they must be kept free from particle debris (e.g. welding be The installation of suitable strainer is recommended.	ction correctly in the long term,		
Maintenance	Ball valves and rotary actuators are maintenance-free. Before any kind of service work is carried out on the actuat rotary actuator from the power supply (by unplugging the e the part of the piping system concerned must also be switc slide valves closed (allow everything to cool down first if ne pressure to ambient pressure level). The system must not be returned to service until the ball val been properly reassembled in accordance with the instruction refilled in the proper manner.	lectrical cable). Any pumps in hed off and the appropriate cessary and reduce the system alve and the rotary actuator have		
Flow direction	The direction of flow, specified by an arrow on the housing, otherwise the ball valve could become damaged. Please en correct position (marking on the spindle).			

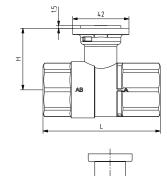
A - AB = 0%



Dimensions [mm]

Dimensional drawings





L1: Maximum screwing depth. The actuator dimensions can be found on the respective actuator data sheet.



Туре	DN []	Rp ["]	L [mm]	L1 [mm]	H [mm]	Weight approx. [kg]
R2015-P25-S1	15	1/2	67	13	35	0.24
R2015-P4-S1	15	1/2	67	13	35	0.24
R2015-P63-S1	15	1/2	67	13	35	0.24
R2015-1-S1	15	1/2	67	13	35	0.24
R2015-1P6-S1	15	1/2	67	13	35	0.24
R2015-2P5-S1	15	1/2	67	13	44	0.30
R2015-4-S1	15	1/2	67	13	44	0.30
R2015-6P3-S1	15	1/2	67	13	44	0.30
R2020-4-S1	20	3/4	79	14	44	0.37
R2020-6P3-S2	20	3/4	79	14	44	0.37
R2025-6P3-S2	25	1	87	16	46	0.55
R2025-10-S2	25	1	87	16	46	0.55
R2032-10-S2	32	1 1/4	105	19	46	0.7
R2032-16-S2	32	1 1/4	105	19	46	0.8
R2032-20-S2	32	1 1/4	105	19	50.5	0.8
R2040-16-S2	40	1 1/2	111	19	50.5	0.95
R2040-25-S2	40	1 1/2	111	19	50.5	0.95
R2050-25-S3	50	2	125	22	56	1.5
R2050-40-S3	50	2	125	22	56	1.5

* R2032-20-S2 has no characterising disc