

The new generation of Belimo CCV. Now with enhanced functionality.



➤ Water is our element.
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As precise as it always was – but simpler and more temperature-resistant.

Proven millions of times over and now optimised even more – effective immediately, the unique Belimo ball valves (open-close, change-over and characterised control valves) open up additional application possibilities and minimise the causes of errors during installation.

Proven valve technology State-of-the-art

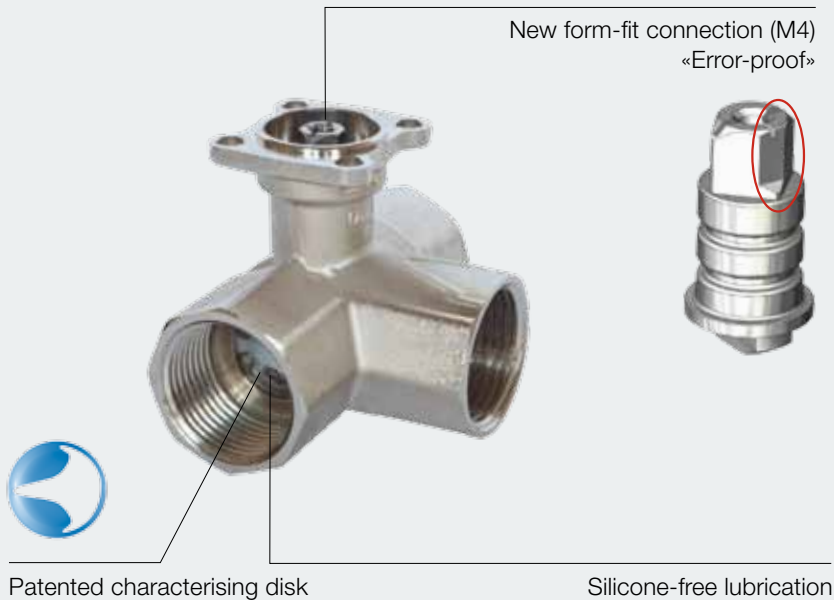
As 2-way and 3-way types with internal thread or flanges, as well as with a stainless ball, the Belimo ball valves are now suitable for temperatures from -10°C (without spindle heating) to 120°C . This means they are extending their radius of action as space-saving, inexpensive valves to include additional applications. In addition, they have been given a revised actuator connection (formclosure connection with a pin in the tappet shaft): This practically eliminates errors at the time of the actuator installation. The characterised control valves of the new generation continue to be equipped with the Belimo-patented characterising disk with many years of proven use behind it. It guarantees them an equal percentage valve characteristic curve and closes them air bubble tight.

Comprehensive motorisation philosophy

The ball valves are motorised to suit the respective application. Belimo actuators of the new generation are utilised in order to ensure that you can operate your water solutions with a comprehensive motorisation philosophy – in the performance classes from 2 to 20 Nm. Actuators with emergency control functions are also available for the purpose of system protection.

The new generation of Belimo CCV. More versatile, simpler, more ecological.

The new characterised control valves



Versatility

- Silicone-free lubrication with stainless ball permits utilisation with medium temperatures from -10°C to 120°C
- Pressure ps new: 1600 kPa

Installation safety

- New form closure connection practically eliminates errors in actuator installation

Environmentally friendly

- Optimised materials, reduced weight, identical robustness
- Closes air bubble-tight for the prevention of gradual energy losses

Economic efficiency

- Tested Swiss quality with 5-year warranty
- Reverse compatibility with the previous characterised control valves

Adapted actuator product range

Due to the fact that only one screw type (M4) is used for the actuator installation, the previously available ..D actuator types (e.g. TRD24-SR) are no longer required. The actuator product range remains however just as versatile as before:

- Compact actuators: KR.. series (2 Nm)
- Rotary actuators without emergency control function: TR.., LR.., NR.. and SR.. series (2, 5, 10 and 20 Nm)
- Rotary actuators with emergency control function: TRF.., LRF.., NRF.. and SRF.. series (2, 5, 10 and 20 Nm)
- Fast running actuators: TRC.., LRC.. and NRC.. series (2, 5 and 10 Nm)
- Very fast running actuators: LRQ.. and NRQ.. series (5 and 10 Nm)

Depending on the valve type, the actuators can be utilised with different types of controls (open-close, 3-point, modulating) or with bus-capable MP types.

New type designations

In order to distinguish the further developed characterised control valves from the «old» types, they have been given new, more meaningful designations. These are composed as follows:

Example: R3020-6P3-S2 (previously R318)

- R3020: 3-way internal thread, DN 20
- 6P3: k_{vs} value $6.3 \text{ m}^3/\text{h}$
- S2: Material stainless steel ball, motorisation size

The comparison table of new/old type designations can be found on the following pages.

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New valve designations and actuators.

2-way, 120°C internal thread

Valve types			Actuator families				
Old	New	Sort	KR..**	TR(F)..	LR(F)..	NR(F)..	SR(F)..
R205K	R2015-P25-S1	▲	•	•	•	•	•
R206K	R2015-P4-S1	▲	•	•	•	•	•
R207K	R2015-P63-S1	▲	•	•	•	•	•
R208K	R2015-1-S1	▲	•	•	•	•	•
R209K	R2015-1P6-S1	▲	•	•	•	•	•
R210K	-						
R209	R2015-P63-S1	▲	•	•	•	•	•
R210	R2015-1-S1	▲	•	•	•	•	•
R211	R2015-1P6-S1	▲	•	•	•	•	•
R212	R2015-2P5-S1	▲	•	•	•	•	•
R213	R2015-4-S1	▲	•	•	•	•	•
R214	R2015-6P3-S1	▲	•	•	•	•	•
R215	R2015-S1	△	○	○	○	○	○
R217	R2020-4-S2	▲			•	•	•
R218	R2020-6P3-S2	▲			•	•	•
R219	R2020-8P6-S2	▲			•	•	•
R220	R2020-S2	△			○	○	○
R222	R2025-6P3-S2	▲			•	•	•
R223	R2025-10-S2	▲			•	•	•
R224	R2025-16-S2	▲			•	•	•
R225	R2025-S2	△			○	○	○
R229*	R2032-10-B2	▲			•	•	•
R230*	R2032-B2	△			○	○	○
R231	R2032-16-S3	▲			•	•	•
R232	R2032-S3	△			○	○	○
R238	R2040-16-S3	▲			•	•	•
R239	R2040-25-S3	▲			•	•	•
R240	R2040-S3	△			○	○	○
R248	R2050-25-S4	▲					•
R249	R2050-40-S4	▲					•
R250	R2050-S4	△					○

* Supplementary product range, medium temperature 100°C

** Medium temperature 80°C

▲ Characterised control valves

△ Open-close ball valves

◁▷ Change-over ball valves

• All types possible

○ Only open-close actuator types

3-way, 120°C internal thread

Valve types			Actuator families				
Old	New	Sort	KR..**	TR(F)..	LR(F)..	NR(F)..	SR(F)..
R305K	R3015-P25-S1	▲	•	•	•	•	•
R306K	R3015-P4-S1	▲	•	•	•	•	•
R307K	R3015-P63-S1	▲	•	•	•	•	•
R308K	R3015-1-S1	▲	•	•	•	•	•
R309	R3015-P63-S1	▲	•	•	•	•	•
R310	R3015-1-S1	▲	•	•	•	•	•
R311	R3015-1P6-S1	▲	•	•	•	•	•
R312	R3015-2P5-S1	▲	•	•	•	•	•
R313	R3015-4-S1	▲	•	•	•	•	•
R315	R3015-S1	◁▷	○	○	○	○	○
R317	R3020-4-S2	▲			•	•	•
R318	R3020-6P3-S2	▲			•	•	•
R320	R3020-S2	◁▷			○	○	○
R322	R3025-6P3-S2	▲			•	•	•
R323	R3025-10-S2	▲			•	•	•
R325	R3025-S2	◁▷			○	○	○
R329*	R3032-10-B2	▲			•	•	•
R330*	R3032-B2	◁▷			○	○	○
R331	R3032-16-S3	▲			•	•	•
R332	R3032-S3	◁▷			○	○	○
R338	R3040-16-S3	▲			•	•	•
R340	R3040-S3	◁▷			○	○	○
R339G	R3040-25-S4	▲					•
R348	R3050-25-S4	▲					•
R349G	R3050-40-S4	▲					•
R350	R3050-S4	◁▷					○
R350G-A	R3050-58-S4	▲					•

3-way, 100°C internal thread L hole

Valve types			Actuator families			
Old	New	Sort	TR(F)..	LR(F)..	NR(F)..	SR(F)..
R315BL	R3015-BL1	◁▷	○	○	○	○
R320BL	R3020-BL2	◁▷		○	○	○
R325BL	R3025-BL2	◁▷		○	○	○
R330BL	R3032-BL2	◁▷		○	○	○
R332BL	R3032-BL3	◁▷			○	○
R340BL	R3040-BL3	◁▷			○	○
R350BL	R3050-BL3	◁▷			○	○
R340GBL	R3040-BL4	◁▷				○
R350GBL	R3050-BL4	◁▷				○

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New valve designations and actuators.

2-way, 100°C flange PN6							3-way, 100°C flange PN6					
Valve types			Actuator families				Valve types			Actuator families		
Old	New	Sort	TR(F)..	LR(F)..	NR(F)..	SR(F)..-5	Old	New	Sort	TR(F)..	LR(F)..	NR(F)..
R609R	R6015RP63-B1	▲	•	•	•		R709R	R7015RP63-B1	▲	•	•	•
R610R	R6015R1-B1	▲	•	•	•		R711R	R7015R1P6-B1	▲	•	•	•
R611R	R6015R1P6-B1	▲	•	•	•		R713R	R7015R4-B1	▲	•	•	•
R612R	R6015R2P5-B1	▲	•	•	•		R715R	R7015R-B1	<▷	○	○	○
R613R	R6015R4-B1	▲	•	•	•		R718R	R7020R6P3-B1	▲	•	•	•
R615R	R6015R-B1	△	○	○	○		R720R	R7020R-B1	<▷	○	○	○
R618R	R6020R6P3-B1	▲	•	•	•		R723R	R7025R10-B2	▲		•	•
R620R	R6020R-B1	△	○	○	○		R725R	R7025R-B2	<▷		○	○
R623R	R6025R10-B2	▲		•	•		R731R	R7032R16-B3	▲			•
R625R	R6025R-B2	△		○	○		R732R	R7032R-B3	<▷			○
R631R	R6032R16-B3	▲			•		R738R	R7040R16-B3	▲			•
R632R	R6032R-B3	△			○		R740R	R7040R-B3	<▷			○
R639R	R6040R25-B3	▲			•		R748R	R7050R25-B3	▲			•
R640R	R6040R-B3	△			○		R750R	R7050R-B3	<▷			○
R649R	R6050R40-B3	▲			•							
R650R	R6050R-B3	△			○							
R664R*	R6065W63-S8	▲				•						
R665R	on request	△										
R679R*	R6080W100-S8	▲				•						
R680R	on request	△										

* Replaced by PN16
▲ Characterised control valves
△ Open-close ball valves
<▷ Change-over ball valves
• All types possible
○ Only open-close actuator types

Belimo worldwide: www.belimo.com



5-year guarantee



On site around the globe



Complete product range



Tested quality



Short delivery times



Comprehensive Support

BELIMO Automation AG, Brunnenbachstrasse 1, CH-8340 Hinwil
Tel. +41 (0)43 843 61 11, Fax +41 (0)43 843 62 68, info@belimo.ch

