

All-inclusive.

Water is our element.



-  5 year warranty
-  On site around the globe
-  A complete range of products from one source
-  Tested quality
-  Short delivery times
-  Comprehensive support



HVAC valves with rotary actuators.

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ENG - 98001-05110 - 02.10 - Subject to technical changes

# Valves with rotary actuators from Belimo.

## Dynamic control, air bubble-tight closure, intelligent networking.

Whether for new installations, renovation or maintenance work – Belimo valve solutions assure perfect functioning, increased energy efficiency and maximum economy for all HVAC water circuits.

### Innovative valve technology

Innovative solutions from Belimo such as the revolutionary 6-way characterised control ball valve for chilled or heated ceilings, controllable butterfly valves and the characterised control valve for high temperatures and differential pressures continuously set new standards. Besides pressure independent CVV (PICCV) Belimo also offers the EPIV, a pressure independent valve that comes with an electronic flow controller from DN 65...DN 150.

### Consistent motorisation philosophy

Our wide range of powerful rotary actuators, either with or without an emergency control function, is based on a consistent operating philosophy and identical accessories. This simplifies planning and cuts the cost of installation, operation and maintenance. The portfolio also includes actuators with special protective housings for use in a polluted atmosphere, as well as fast-running actuators to master even the most complex control tasks.

### Inexpensive integration







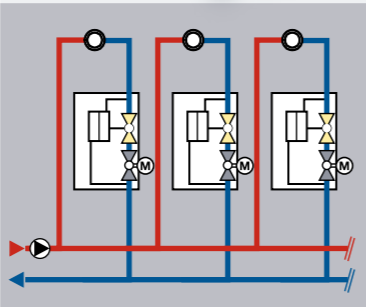
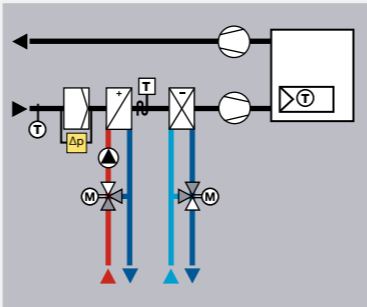
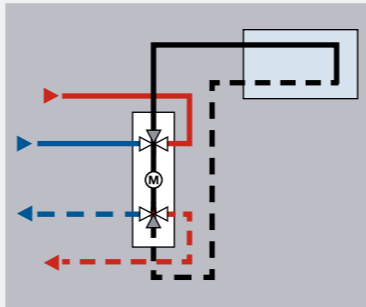
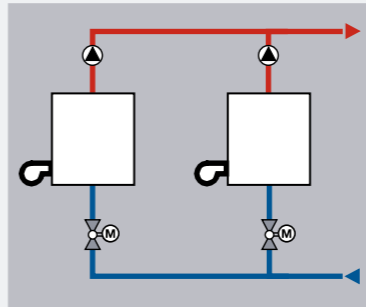
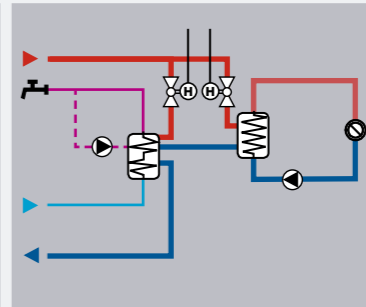

Thanks to our bus-capable rotary actuators, up to eight different control devices can be grouped together in a Belimo MP-Bus® line – together with one active or passive sensor – and integrated in a higher-level system via an MP master. The costs for wiring are reduced by up to 90 percent as a result!

### Simple motorisation of third-party valves

Our rotary actuators can be mounted in an instant on valves from a variety of manufacturers – neither special tools nor complex mechanical adjustments are required. The force, running time, angle of rotation and control and feedback signals can be customised with the parameterisable MF types.

### Remarkable economy and rapid payback

Since they are always air bubble-tight in the closed position, the Belimo valves reduce your system's energy consumption. They offer unbeatable value for money with a payback period that is usually very short. Cost-efficient solutions – whether for new installations, maintenance work or renovation – are assured.

Typical applications					
					
<b>Pressure-independent characterised control valves for heating distributors and district heating substations</b> DN 15 to DN 50 without emergency control function DN 15 to DN 50 with emergency control function DN 65 to DN 150 with electronic flow rate setting	<b>Characterised control valves for ventilation plant rooms, partial air conditioning systems and secondary treatment</b> DN 10 to DN 80 without emergency control function DN 10 to DN 80 with emergency control function (3-port up to DN 50)	<b>6-way characterised control ball valves for chilled ceilings and fan coils</b> DN 15 without emergency control function, modulating DN 15 with space-optimised rotary actuator	<b>Shut off valves for boiler sequence systems and open cooling towers</b> DN 25 to DN 350 without emergency control function DN 25 to DN 80 with emergency control function	<b>Characterised control valves for district heating, low steam, domestic hot and drinking water</b> DN 10 to DN 20 without emergency control function DN 10 to DN 20 with emergency control function	<b>Rotary actuators for motorising third-party valves</b> Retrofit actuators without emergency control function (up to 3500 Nm) Retrofit actuators with emergency control function (up to 15 Nm)
					
<ul style="list-style-type: none"> <li>Balance, shut off and control with one valve body</li> <li>Constant flow rate with equal percentage valve characteristic curve</li> <li>Simple and reliable valve design</li> <li>No balancing work is needed</li> <li>Motorisation with modulating, parameterisable or bus-capable actuators</li> <li>New: EPIV family of valves with sensor-controlled electronic flow rate control</li> </ul>	<ul style="list-style-type: none"> <li>Total reliability and excellent control properties with equal-percentage valve characteristic curve</li> <li>Energy savings thanks to air bubble-tight closure</li> <li>Suitable for cold or warm water and open water circuits</li> <li>Available with internal or external thread or with flange</li> <li>Open-close, 3-point, modulating, parameterisable and bus-capable actuators</li> </ul>	<ul style="list-style-type: none"> <li>Heating and cooling with just one valve</li> <li>Four single 2-way valves are replaced</li> <li>Low installation costs</li> <li>Only one control sequence</li> <li>One data point with MP actuator</li> <li>No more «energy guzzling» because the unit is locked mechanically</li> <li>One valve with different <math>k_{vs}</math> values</li> </ul>	<ul style="list-style-type: none"> <li>Tight and reliable shut-off of cold or hot water boilers with no creeping energy losses</li> <li>Minimal pressure losses</li> <li>Rugged design for a long service life</li> <li>Powerful, high-speed actuators</li> </ul>	<ul style="list-style-type: none"> <li>Suitable for medium temperatures up to 130°C</li> <li>Excellent control properties</li> <li>Low-cavitation, low-noise operation</li> <li>Control of high differential pressures up to 8 bar</li> <li>Fast-running actuators (9 s) for even the most complex control tasks, e.g. involving domestic hot water</li> </ul>	<ul style="list-style-type: none"> <li>Suitable for new installations or to replace older actuators for a variety of valve manufactures</li> <li>Wide range of open-close, 3-point, modulating, parameterisable and bus-capable actuators</li> <li>Very easy installation with special mounting kits for each valve type</li> <li>Inexpensive way to increase the efficiency and performance of an entire system</li> </ul>