



**Planning reliability
and efficiency.**

Mechanically pressure-independent 6-way characterized control valve

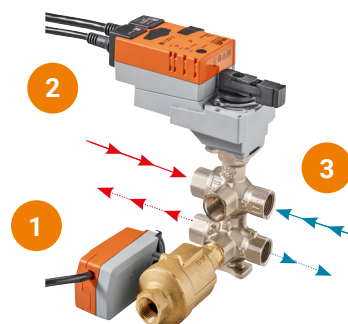
The pressure-independent 6-way zone valve from the Belimo ZoneTight™ product family, for controlling combined heating / cooling elements in a 4-pipe system, combines the benefits of two tried and tested Belimo valves. The good planning reliability and efficiency of the pressure-independent valve PIQCV and the ease of installation of the 6-way characterised control valve. You also benefit from other outstanding properties:

- Time-saving and safe valve selection in accordance with maximum volumetric flow
- Automatic, permanent hydraulic balancing
- Securing the correct amount of water with differential pressure changes and with partial loads
- Safe operation due to reliable decoupling of cooling and heating circuit
- Maximum system safety through integrated pressure release function

Functional, easy to install and versatile.

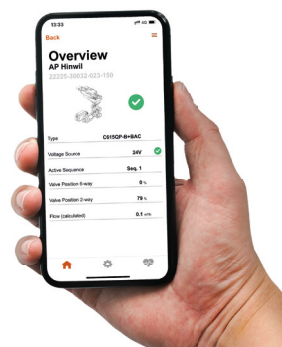
Functional principle

- Takes over the function of up to four 2 port valves.
- Enables optimum design of the heating and cooling elements.
- Eliminates installation errors.
- Depending on the control signal (2), the heating or cooling sequence is activated by switching from the 6-way changeover ball valve (3). Furthermore, the pressure-independent 2-way PI zone valve (1) passes through the control signal what ensures the required amount of water for heating or cooling operation.
- Quick to configure as the k_{vs} value does not have to be calculated.
- The characterised control valve seals completely.



Seamless integration

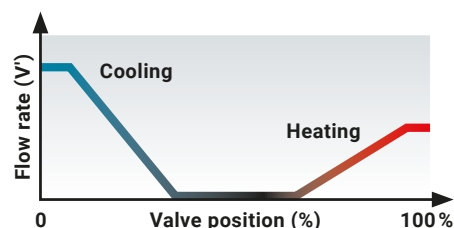
- Low wiring effort with only one data point.
- Can be controlled by Belimo MP-Bus, BACnet MS/TP, Modbus RTU or conventional control signals.
- Bus communication can also be used for monitoring and overriding when controlled using an analogue control signal.
- Swift and easy on-site data access with NFC.
- Commissioning and troubleshooting with the Belimo Assistant App and a smart phone.



Sequences for cooling and heating

- Suitable for 4-pipe system with two sequences (heating / cooling).
- Different adjustable maximum flow values for cooling and heating in one valve.
- No loss of energy when in the closed position as it is air-bubble tight.
- Only requires one control sequence.

Sequences



Pressure-independent 6-way PI zone valve

Type	Nominal diameter	V_{nom}		Adjustable maximum flow rate
	DN	l/h	m ³ /h	V_{max} [l/h]
C615QP-B+BAC C615QP-D+BAC C615QP-F+BAC	15	210	0.21	40...210
		420	0.42	100...420
		980	0.98	190...980
C620QPT-G+BAC	20	2100	2.10	600...2100

Medium temperature: +6 ... +80°C, system pressure (ps): 1600 kPa