



An easy way to  
control heating and  
cooling using only  
one valve

## 6-Way Characterized Control Valves

The 6-way characterized control valve is the only one of its kind designed specifically for chilled beams and radiant ceilings. This compact valve has the functionality of up to four 2-way control valves saving on space, material and installation time.

### Achieve Better Control and Cut Cost

Belimo 6-way Characterized Control Valves (CCV) feature heating and cooling circuits which are hydraulically decoupled because of the innovative ball design. Each sequence is controlled individually by the rotary movement of the actuator. The valve is bubble-tight in the closed position preventing energy losses and helps reduce operating costs.

The 6-way CCV offers:

- One valve performs changeover and modulating control for a single coil in a 4 pipe system.
- True close-off to isolate both heating and cooling loops.
- Two sequences with different Cv capabilities (eg. heating and cooling)
- Linear flow characteristic



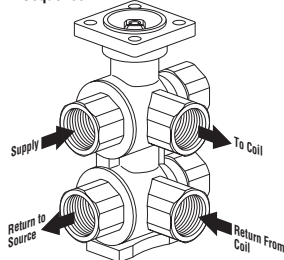
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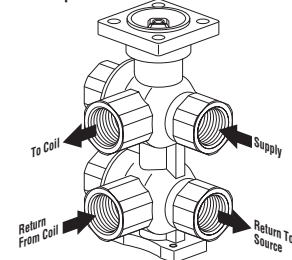
# 6-way CCV Reduces Installation Cost by Using Only One Coil for Heating and Cooling.

		Valve Nominal Size		Type	Suitable Actuators	
Sequence 1 C <sub>v</sub>	Sequence 2 C <sub>v</sub>	Inches	DN [mm]	6-way NPT	Non Fail-Safe	
0.29	0.29	½	15	B315-029-029	LRB24-SR	LRX24-MFT
0.29	0.46			B315-029-046		
0.29	0.73			B315-029-073		
0.29	1.16			B315-029-116		
0.29	1.50			B315-029-150		
0.46	0.29			B315-046-029		
0.46	0.46			B315-046-046		
0.46	0.73			B315-046-073		
0.46	1.16			B315-046-116		
0.46	1.50			B315-046-150		
0.73	0.29			B315-073-029		
0.73	0.46			B315-073-046		
0.73	0.73			B315-073-073		
0.73	1.16			B315-073-116		
0.73	1.50			B315-073-150		
1.16	0.29			B315-116-029		
1.16	0.46			B315-116-046		
1.16	0.73			B315-116-073		
1.16	1.16			B315-116-116		
1.16	1.50			B315-116-150		
1.50	0.29			B315-150-029		
1.50	0.46			B315-150-046		
1.50	0.73			B315-150-073		
1.50	1.16			B315-150-116		
1.50	1.50			B315-150-150		
1.75	2.0			B315-175-200		
2.0	1.75			B315-200-175		
2.0	2.0			B315-200-200		
0.73	0.73	¾	20	B320-073-073	NRB24-SR	NRX24-MFT
0.73	1.16			B320-073-116		
0.73	1.86			B320-073-186		
0.73	2.9			B320-073-290		
1.16	0.73			B320-116-073		
1.16	1.16			B320-116-116		
1.16	1.86			B320-116-186		
1.16	2.9			B320-116-290		
1.86	0.73			B320-186-073		
1.86	1.16			B320-186-116		
1.86	1.86			B320-186-186		
1.86	2.9			B320-186-290		
2.9	0.73			B320-290-073		
2.9	1.16			B320-290-116		
2.9	1.86			B320-290-186		
2.9	2.9			B320-290-290		
2.9	4.0			B320-290-400		
2.9	4.7			B320-290-470		
4.0	2.9			B320-400-290		
4.0	4.0			B320-400-400		
4.0	4.7			B320-400-470		
4.9	2.9			B320-490-290		
4.9	4.0			B320-490-400		
4.9	4.7			B320-490-470		
7.4	7	1	25	B325-740-700	NRB24-SR	NRX24-MFT

Sequence 1



Sequence 2



- One valve performs change over and modulating control for a single coil in a 4 pipe system.
- One valve can support the coil with 2 different Cv values (heating and cooling).
- Reduced installation cost by using only one coil for heating and cooling.
- Energy savings in close position.
- Reduced labor costs during installation.
- Only one analog output needed to control both sequences.

