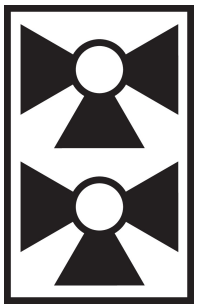
BELIMO

6-way, Characterized Control Valve, Chrome Plated Brass Ball and Nickel Plated Brass Stem

Technical data sheet B320-400-470

5-year warranty



Type overview

Type	DN
B320-400-470	20

Technical data

Functional data	Valve size [mm]	0.75" [20]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	43...180°F [6...82°C]
	Body Pressure Rating	232 psi
	Close-off pressure Δps	50 psi
	Differential pressure Δpmax	15psi
	Flow characteristic	linear
	Pipe connection type	Internal thread NPT (female)
	Servicing	maintenance-free
	Flow Pattern	6-way
	Leakage rate	0%
	Controllable flow range	sequence 1 (angle 0...30°), dead zone (30...60°), sequence 2 (angle 60...90°)
	Seq 1 Cv	4
	Seq 2 Cv	4.7
Materials	Valve body	Nickel-plated brass body
	Stem	nickel-plated brass
	Stem seal	EPDM (lubricated)
	Seat	PTFE
	Characterized disc	chrome plated steel
	O-ring	EPDM
	Ball	chrome plated brass

Product features

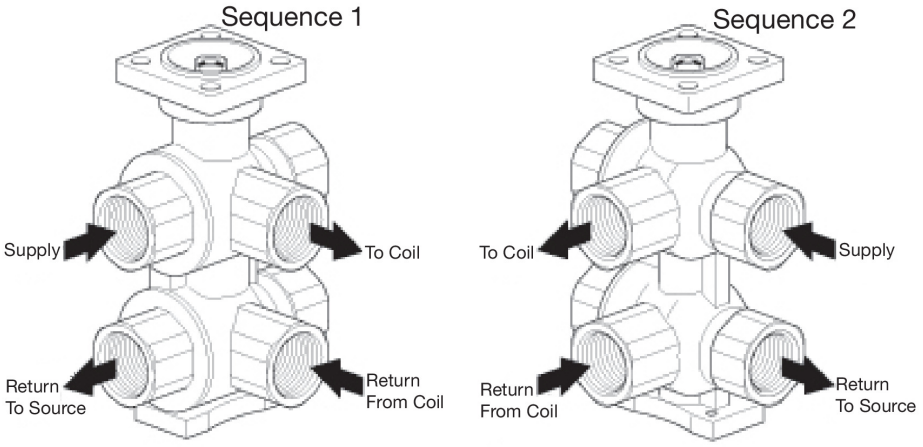
Application

The 6-way characterized control valve is ideal for chilled beams, radiant ceilings, and fan coil units offering reduced wiring by using a single actuator instead of two. It eliminates the need for a change-over valve and enables the use of a single coil for heating and cooling.

Operation

A loop pressure relief is designed into port number two (2). This allows the increased pressure to dissipate to the supply loop on port number one (1). This is intended to release any pressure build up in the loop (coil) when the valve is in the closed position and is isolated from the system expansion vessel. The change in pressure occurs due to a change in the media temperature in the coil while isolated from the pressure vessel. The pressure relief does not affect the efficiency of the system because cross-flow cannot occur between the heating and cooling loops. The system loops (heating/cooling) should share a common expansion vessel to keep the system pressure and volume balanced.

Flow/Mounting details

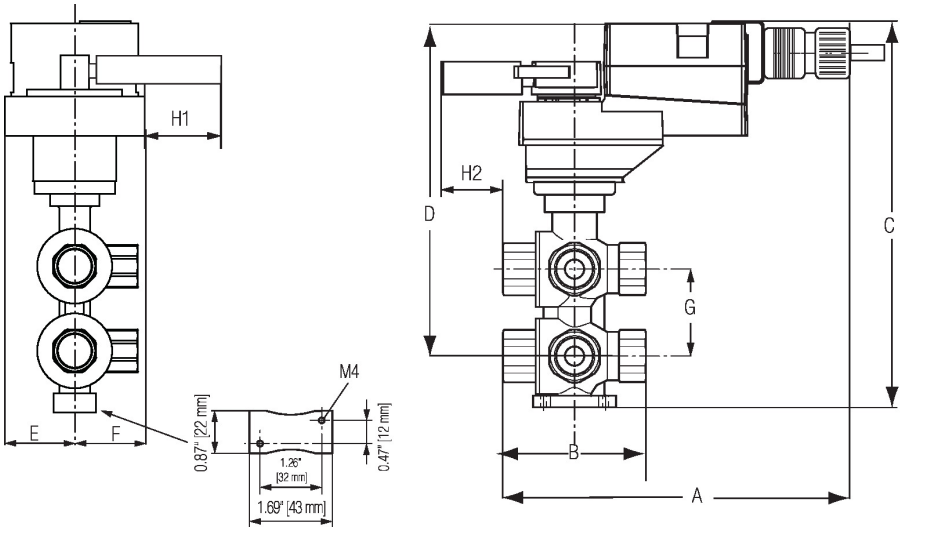


Accessories

Mechanical accessories	Description	Type
	Fixing bracket for 6-way valve DN 15/20	ZR-004

Dimensions

Type	DN	Weight
B320-400-470	20	4.6 lb [2.1 kg]



A	B	C	D	E	F	G	H1	H2
7.5" [191]	3.9" [100]	9.0" [229]	7.6" [194]	2.0" [51]	2.0" [51]	2.4" [60]	1.2" [30]	0.6" [15]