


3-way mixing Characterised Control Valves DN15...50
Equal-percentage characteristics for modulating control of cold and hot water

Applications

- Water-side control of air handling units in air conditioning systems
- Water-side control in heating systems


Technical data

Flow medium	Cold and hot water, water with max. 50% volume of glycol	
Temp. of medium	-5...+100°C	
Rated pressure	DN15...25	4140kPa
	DN32...50	2760kPa
Flow characteristic	Equal percentage	
Rangeability	DN15*	Sv>50
	DN15...50**	Sv>100
Leakage rate	Control path A-AB	Air bubble-tight (DIN 3230 Part 3)
	Bypass B-AB	Approximately 1...2% of Kvs value
Pipe connector	Internal thread to ISO 7/1	
Differential pressure ΔP_{max}	350kPa (200kPa for low-noise operation)	
Close-off pressure ΔP_s	1400kPa	
Angle of rotation	90°	
Installation position	Upright to horizontal (in relation to the stem)	
Maintenance	Maintenance-free	
Valve Material		
Body	Forged, nickel-plated brass body	
Ball	Brass	
Seat	PTFE	
Shaft	Stainless steel	
O-ring	EPDM	
Characterising disc	TEFZEL	

*= Kvs up to 2.5

 **= DN15 Kvs \geq 4

Product features
Mode of Operation

The Characterised Control Valve is operated by a Rotary Actuator. The actuator is controlled by a standard modulating or 3-point control system and drives the ball of the valve - the throttling device - to the opening position dictated by the control signal.

Equal-percentage characteristic

Equal-percentage characteristic of the flow rate ensured by the integral characterising disc.