


**2-way low torque 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	2500kPa	
Flow characteristic	Equal percentage	
Rangeability	DN15*	Sv>50
	DN15...50**	Sv>100
Leakage rate	0...0.01% Kvs (ANSI Class IV) (No leakage when ex-factory)	
Pipe connector	Internal thread to ISO 7/1	
Differential pressure $\Delta P_{max}$	350kPa (200kPa for low-noise operation)	
Close-off pressure $\Delta P_s$	1400kPa	
Angle of rotation	90°	
Installation position	Upright to horizontal (in relation to the stem)	
Maintenance	Maintenance-free	
<b>Valve Material</b>		
Body	Forged, nickel-plated brass body	
Ball	Stainless steel	
Seat	RPTFE	
Shaft	Stainless steel	
O-ring	EPDM	
Characterising disc	PPA	

\*= 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.