



2-way Characterised Control Valves DN65...150
Equal-percentage characteristics for modulating control of cold and warm water



Applications

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



Type overview

Type	kvs [m³/h]	DN []	PN []
R664AO	63	65	16
R679AO	100	80	16
R6099AO	140	100	16
R6124AO	230	125	16
R6149AO	320	150	16

Technical data

Flow medium	Cold and warm water, water with max. 50% volume of glycol		
Temp. of medium	-5...+100°C		
Rated pressure	1600kPa		
Flow characteristic	Equal percentage		
Rangeability	Sv>100		
Leakage rate	Leakage Rate A, Tight (EN12266-1)		
Pipe connector	Flanged ISO 7005-2		
Differential pressure ΔP_{max}	DN65...125	350kPa (200kPa for low-noise operation)	
	DN150	<250kPa	
Close-off pressure ΔP_s	DN65...125	700kPa	
	DN150	400kPa	
Angle of rotation	90°		
Installation position	Upright to horizontal (in relation to the stem)		
Maintenance	Maintenance-free		
Valve Material			
Body	GG25, Polyester coated		
Ball	Stainless steel		
Seat	DN65...125 RPTFE		
	DN150 TFM1600		
Shaft	Stainless steel		
O-ring	EPDM		
Characterising disc	Stainless steel		

Safety notes



- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- The valve does not contain any parts that can be replaced or repaired by the user.
- The valve may not be disposed of as household refuse. All locally valid regulations and requirements must be observed.
- When determining the flow rate characteristic of controlled devices, the recognised directives must be observed.

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.

Dimensions [mm]

R6..AO 2-way Ball Valve

Valve type	DN		Dimensions[mm]						Weight [kg]
	mm	In	øA	øD	H	H1	L	N-ød	
R664AO	65	2½"	105	145	128.0	12.0	93.0	4-18	4.8
R679AO	80	3"	125	160	134.5	12.0	108.0	8-18	7.2
R6099AO	100	4"	148	180	144.0	15.5	120.0	8-18	10.5
R6124AO	125	5"	174	210	158.0	15.5	142.0	8-18	14
R6149AO	150	6"	204	240	176.5	15.5	170.0	8-22	21

