



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

Туре	kvs	DN	PN
	[ m³/h]	[]	[]
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 △Pmax	DN65125	350kPa (200kPa for low-noise operation)			
	DN150	<250kPa			
Close-off pressure $\triangle Ps$	DN65125	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	DN65125 RPTFE				
	DN150 TFM16	00			
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

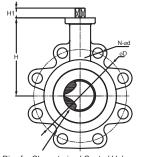
controlled by a standard modulating or 3-point control system and drives the ball of the valve - the throttling device - to the opening position dictated by the control signal.

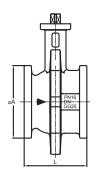
**Equal-percentage characteristic** Equal-percentage characteristic of the flow rate ensured by the integral characterising disc.

### **Dimensions [mm]**

### R6..AO 2-way Ball Valve

Valve type	DN		Dimensions[mm]					Weight	
	mm	In	ØΑ	ØD	Н	H1	L	N-ød	[kg]
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





Disc for Characterised Control Valve

