



2-way open-close ball valves DN 15...150

Shut-off function and 2-point control in cold and hot water circuits

Applications

For shutting off cold and hot water circuits in heating and ventilation systems on the water side or for 2-point control of these circuits





R2.. AC Technical data (for DN15... 50)

Flow medium	Cold and hot water, water with max, 50% volume of glycol
Temperature of medium	-5°C100°C
Rated pressure ΔPs	2500 kPa
Leakage rate	0~0.01% of kvs (ANSI Class IV)
	(No leakage when ex-factory)
Pipe connector	Internal thread to ISO7/1
Differential pressure ∆pmax	1000 kPa (200 kPa for low-noise operation)
Closing pressure ∆ps	1400 kPa
Angle of rotation	90°
Installation position	Upright to horizontal (in relation to the stem)
Maintenace	Maintenace-free
Materials	
Body	Forged, nickel-plated brass body
Ball	Stainless steel
Seat	RPTFE
Stem	Stainless steel
O-ring	EPDM

R6..AC Technical data (for DN65...150)

Flow medium	Cold and hot water, water with max. 50% volume of glycol
Temperature of medium	-5°C100°C
Rated pressure Δ Ps	1600 kPa
Leakage rate	0~0.01% of kvs (ANSI Class IV) (No leakage when ex-factory)
Pipe connector	Flanged ISO7005-2 PN16
Differential pressure Δ pmax	1000 kPa (200 kPa for low-noise operation)
Closing pressure Δ ps	700 kPa (DN65~DN125) 400 kPa (DN150)
Angle of rotation	90°
Installation position	Upright to horizontal (in relation to the stem)
Maintenace	Maintenace-free
Materials	
Body	GG25, Polyester coated
Ball	Stainless steel
Seat	RPTFE
Stem	Stainless steel
O-ring	EPDM

Product features

Mode of operation The open-close ball valve is operated by a rotary actuator. The rotary actuator is controlled

by an open-close signal.

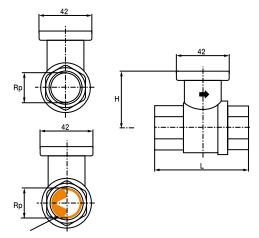
Manual operation Please refer to page 13...35.



Dimensions

R2.. AC 2-way ball valves

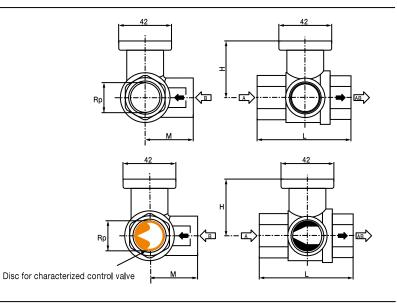
	DN		Thread	Dimer [mi		Weight	
	mm	Imp.	Rp	٦	Ι	[Kg]	
R209AC/R210AC/R211AC R212AC/R213AC/R215AC	15	1/2"	1/2"	70	43.5	0.38	
R217AC/R218AC/R220AC	20	3/4"	3/4"	77	46	0.48	
R222AC/R223AC/R225AC	25	1"	1"	85	47.6	0.63	
R229AC/R231AC/R232AC	32	11/4"	1 ¹ / ₄ "	94	51	0.84	
R238AC/R239AC/R240AC	40	11/2"	11/2"	104	53.5	1.1	
R248AC/R249AC/R250AC	50	2"	2"	116.5	58.1	1.6	



Disc for characterized control valve

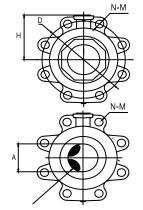
R3.. 3-way ball valves

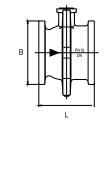
Valve type	DI	N	Dimensions [mm]			Thread	Weight	
valve type	mm	Imp.	L	Н	М	Rp	[kg]	
R309R315	15	1/2"	67	45	34	1/2"	0.45	
R317R320	20	3/4"	76	47.5	38.5	3/4"	0.6	
R322R325	25	1"	87	47.5	43.5	1"	0.9	
R329, R330	32	11/4"	102	47.5	51	1 ¹ / ₄ "	1.2	
R331, R332	32	11/4"	113	52	56.5	11/4"	1.5	
R338, R340	40	11/2"	113	52	56.5	11/2"	1.5	
R348, R350	50	2"	127	58	63.5	2"	2.4	



R6..AC 2-way ball valves

Value tune	D	DN Dimensions [nsions [n	nm]	Weight		
Valve type	mm	Imp.	Α	В	D	L	Н	N	М	[kg]
R664AC/R665AC	65	2.5"	Ø 44	ø101	ø145	93	86	4	ø 18	4.3
R679AC/R680AC	80	3"	ø 55	ø125	ø160	108	94.5	8	ø 18	6.5
R6099AC/R6100AC	100	4"	Ø 64	Ø148	ø180	120	104	8	ø 18	10.5
R6124AC/R6125AC	125	5"	ø77	ø174	ø210	142	118	8	ø 18	13.0
R6149AC/R6150AC	150	6"	ø 96	ø204	ø240	170	136.5	8	ø 22	19.5





Disc for characterized control valve





2-way low torque characterized control valves DN 15...50



Equal-percentage characteristics for modulating control of cold and hot water

Applications

- · Water-side control of air handling unit 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					
Temperature of medium	-5°C100°C					
Rated pressure ΔPs	2500 kPa					
Flow characteristic	equal percentage					
Rangeability	DN15* Sv>50 DN1550** Sv>100					
Leakage rate	0~0.01% kvs(ANSI Class IV) (No leakage when ex-factory)					
Pipe connector	Internal thread to ISO7/1					
Differential pressure Δ pmax Closing pressure Δ ps	350 kPa (200 kPa for low-noise operation) 1400 kPa					
Angle of rotation	90°C					
Installation position	Upright to horizontal (inrelation to the stem)					
Maintenace	Maintenace-free					
Materials Body Ball Seat Stem O-ring Characterizing disk	Forged, nickel-plated brass body Stainless steel RPTFE Stainless steel EPDM PPA					

^{*=} Kvs up to 2.5;

Product features

Mode of operation

The characterized 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 characterizing disc

Manual operation Please refer to page 13...35.

^{**=} DN15 Kvs \geqslant 4





2-way characterized control valves DN 65...150



Equal-percentage characteristics for modulating control of cold and hot water

Applications

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



Technical data

Cold and hot water, water with max. 50% volume of glycol				
-5°C100°C				
1600 kPa				
equal percentage				
DN6580 Sv>100 DN100150 Sv>150				
0~0.01% of Kvs (ANSI Class IV) (No leakage when ex-factory)				
Flanged ISO7005-2 PN16				
350 kPa (200 kPa for low-noise operation) DN65125 700 kPa DN150 400 kPa				
90°C				
Upright to horizontal (in relation to the stem)				
Maintenace-free				
0005 D. I				
GG25,Polyester coated Stainless steel RPTFE				
Stainless steel EPDM Stainless steel				

Product features

- · Simplified installation procedure
- Light weight comparing with same DN size valves
- · Anti-corrosion treatment inside of the valve
- Solid linkage in insulation design

Mode of operation

The characterized 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 characterizing disc.

Manual operation Please refer to page 13...35.