

Zone valve, 2-way, Internal thread

For closed cold and warm water systems
For shut-off functions and modulating controls on the water side of air-handling units and heating systems.

- Snap-assembly of the actuator
- kvs variable





Type overview

Туре	DN	Rp ["]	kvs [m³/h]	PN	n(gl)		
C215Q-F	15	1/2	1.2	25	3.2		
C215Q-J	15	1/2	4.8	25	3.2		
С220Q-К	20	3/4	8	25	3.2		
С225Q-К	25	1	7	25	3.2		

Technical data

Functional data	Fluid	Cold and warm water, water with glycol up to max. 50% vol.
	Fluid temperature	2100°C [36212°F]
	Fluid temperature note	with actuator 290°C
	Close-off pressure ∆ps	520 kPa
	Differential pressure Δpmax	280kPa
	Differential pressure note	50 kPa for low-noise operation
	Flow characteristic	equal percentage, optimised in the opening range
	Leakage rate	air-bubble tight, leakage rate A (EN 12266-1)
	Flow setting	See installation instruction
	Angle of rotation	90°
	Angle of rotation note	Operating range 1590°
	Pipe connection	Internal thread according to ISO 7-1
	Installation position	upright to horizontal (in relation to the stem)
	Servicing	maintenance-free
Materials	Valve body	Brass
	Closing element	Chrome-plated brass
	Spindle	Brass
	Spindle seal	EPDM O-ring
	Seat	PTFE, O-ring EPDM

Safety notes



- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not 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.

BELIMO	Technical data sheet	C2Q			
Product features					
Mode of operation	The ball valve is adjusted by a rotary actuator. The rotary actuator is controlled by an open/clessignal or by a commercially available modulating or 3-point control system and moves the ball of the ball valve – the throttling device – to the position preset by the control signal. Open the ball valve is carried out counterclockwise and close it clockwise.				
Simple direct mounting	Tool-free snap assembly.				
	The actuator can be plugged on the valve by hand (Cautio match the holes on the flange.	n! Just vertical movements). Pins mu			
	The mounting orientation in relation to the valve can be set two times)	elected in 180° increments. (Possible			
Accessories					
Mechanical accessories	Description	Туре			
	Spindle extension CQ Pipe connector for ball valve DN 15 Pipe connector for ball valve DN 20 Pipe connector for ball valve DN 25	ZCQ-E ZR2315 ZR2320 ZR2325			
Installation notes					
Recommended installation positions	The ball valve can be installed upright to horizontal. The ball valve may not be installed in a hanging position, i.e. with the spindle pointing downwards.				
Water quality requirements	The water quality requirements specified in VDI 2035 mus				
	Belimo valves are regulating devices. For the valves to fun must be kept free from particle debris (e.g. welding beads installation of a suitable strainer is recommended.				
Servicing	Ball valves and rotary actuators are maintenance-free.				
	Before any service work on the control element is carried actuator from the power supply (by unplugging the electr the part of the piping system concerned must also be swit valves closed (allow all components to cool down first if ne system pressure to ambient pressure level).	ical cable if necessary). Any pumps ir tched off and the appropriate slide			
	The system must not be returned to service until the ball w been correctly reassembled in accordance with the instruct refilled by professionally trained personnel.	-			
Flow direction	Direction of flow in both directions possible.				
		%			



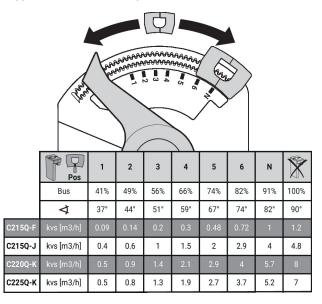
Technical data sheet

Flow setting

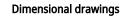
The angle of rotation of the actuator can be changed by a clip in 2.5° increments. This is used to set the kvs value (maximum flow rate of the valve).

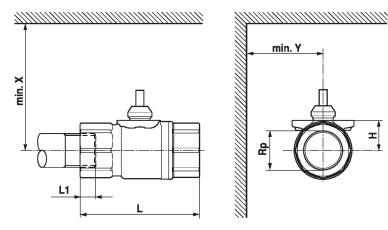
Remove end stop clip and place at desired position.

After every change of the flow setting by means of end stop clip, an adaptation must be triggered on the modulating actuators.



Dimensions





L1: Maximum screwing depth.

X/Y: Minimum distance with respect to the valve centre.

The actuator dimensions can be found on the respective actuator data sheet.

Туре	DN	Rp ["]	L [mm]	L1 [mm]	H [mm]	X [mm]	Y [mm]	
C215Q-F	15	1/2	58	13	14.5	110	35	0.16
C215Q-J	15	1/2	58	13	14.5	110	35	0.16
С220Q-К	20	3/4	70	14	16.5	110	35	0.23
С225Q-К	25	1	84	17	16.5	110	35	0.35

Further documentation

- The complete product range for water applications
- Data sheets for actuators CQ..
- Installation instructions for zone valves and actuators
- General notes for project planning
- Notes for project planning for QCV valves