

# **Technical data sheet**

#### 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
- · kv setting variable



## Type overview

Туре	DN	Rp	kvs	PN
	[]	["]	[ m³/h]	[]
C215Q-J	15	1/2	4.8	16
C220Q-K	20	3/4	8	16

### **Technical data**

Functional data	Media	Cold and warm water, water with glycol up to max. 50% vol.
	Medium temperature	290°C
	Permissible pressure ps	1600 kPa
	Closing pressure Δps	350 kPa
	Differential pressure Apmax	280 kPa
	Differential pressure note	50 kPa for low-noise operation
	Flow characteristic	equal percentage, optimised in the opening range
	Leakage rate	Leakage rate A, tight (EN 12266-1)
	Flow setting	see Installation instructions
	Pipe connector	Internal thread according to ISO 7-1
	Angle of rotation	90° (Operating range 1590°)
	Installation position	Upright to horizontal (in relation to the stem)
	Maintenance	Maintenance-free
Materials	Housing	Brass body
	Closing element	Chrome-plated brass
	Stem	Brass
	Stem seal	O-ring EPDM
	Ball seat	PTFE, O-ring EPDM

#### Safety notes



•

• The valve has been designed for use in stationary heating, ventilation and airconditioning 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.



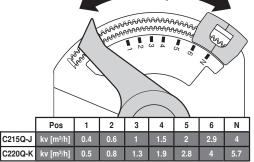
Product features					
Mode of operation	The ball valve is operated by a rotary actuator. The rotary actuator is controlled by an open-close signal or by a standard modulating or 3-point control system and moves the ball of the valve – the throttling device – to the position dictated by the control signal. Open the ball valve counterclockwise and close it clockwise.				
Simple direct mounting	<ul> <li>Tool-free snap assembly.</li> <li>The actuator can be plugged on the valve by hand (Caution! Just vertical movements Pins must match the holes on the flange.</li> <li>The mounting orientation in relation to the valve can be selected in 180° increments. (Possible two times)</li> </ul>				
Accessories					
	Description	Туре			
Mechanical accessories	Spindle extension CQ, for cooling applications only	ZCQ-E			
Installation notes					
Recommended installation positions	The ball valve can be installed upright to horizontal. The in a hanging position, i.e. with the stem pointing downwar				
Water quality requirements	The water quality requirements specified in VDI 2035 mu Belimo valves are regulating devices. For the valves to fu term, they must be kept free from particle debris (e.g. we work). The installation of suitable strainer is recommended	Inction correctly in the long Iding beads during installation			
Maintenance					
Flow direction	Direction of flow in both directions possible.				



 Installation notes

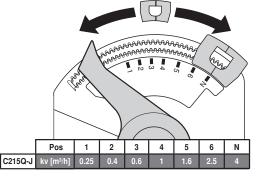
 kv setting
 The angle of rotation of the actuator can be changed by clip in 2.5° increments. This is used to set the kv value (maximum flow rate of the valve). Remove end stop clip and place at desired position.

 Valid for actuators CQ.. manufactured after 1.1.2015



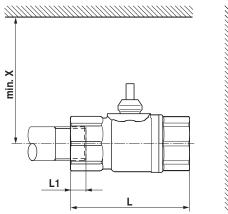
without end stop clip, kvs see type overview

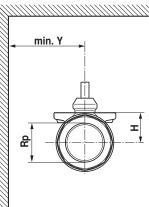
Valid for actuators CQ.. manufactured before 31.12.2014



#### **Dimensions / Weight**

**Dimensional drawings** 





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	<b>DN</b> []	<b>Rp</b> ["]	<b>L</b> [ mm]	<b>L1</b> [ mm]	<b>H</b> [ mm]	<b>X</b> [ mm]	<b>Y</b> [ mm]	Weight [ kg]
C215Q-J	15	1/2	58	13	14.5	110	35	0.17
С220Q-К	20	3/4	70	14	16.5	110	35	0.24

### **Further documentation**

- Overview Valve-actuator combinations
- · Data sheets for actuators CQ..

•

- · Installation instruction for zone valves and actuators
  - General notes for project planning