Technical data sheet

C3..Q-..

- For closed cold and warm water systems
- For switching functions and 2-point controls on the water side of air-handling units and heating systems

Changeover zone valve, 3-way, Internal thread

• Snap-assembly of the actuator



Type overview				
Туре	DN	Rp ["]	kvs [m³/h]	PN
C315Q-H	15	1/2	2.5	25
C320Q-J	20	3/4	4	25
C325Q-J	25	1	4	25

Technical data

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Cold and warm water, water with glycol up to max. 50% vol.
2100°C
with actuator 290°C
280 kPa
280 kPa
50 kPa for low-noise operation
air-bubble tight, leakage rate A (EN 12266-1)
90°
Internal thread according to ISO 7-1
upright to horizontal (in relation to the stem)
maintenance-free
Brass
Chrome-plated brass
Brass
EPDM O-ring
PTFE, O-ring EPDM

Safety notes



Materials

- 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.

Product features

Mode of operation

The change-over zone valve is adjusted by a rotary actuator. The rotary actuator is controlled by an open/close signal.



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Simple direct mounting

Tool-free snap assembly.

The actuator can be plugged on the valve by hand (Caution! Just vertical movements). Pins must match the holes on the flange.

The mounting orientation in relation to the valve can be selected in 180° increments. (Possible two times)

Accessories

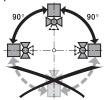
Description	Туре
Spindle extension CQ	ZCQ-E
Pipe connector for ball valve DN 15 Rp 1/2	ZR2315
Pipe connector for ball valve DN 20 Rp 3/4	ZR2320
Pipe connector for ball valve DN 25 Rp 1	ZR2325
	Spindle extension CQ Pipe connector for ball valve DN 15 Rp 1/2 Pipe connector for ball valve DN 20 Rp 3/4

Installation notes

Recommended installation positions

Mecha

The ball valve can be installed upright to horizontal. The ball valve may not be installed in a hanging position, i.e. with the stem pointing downwards.



Water quality requirements

The water quality requirements specified in VDI 2035 must be adhered to.

Belimo valves are regulating devices. For the valves to function correctly in the long term, they must be kept free from particle debris (e.g. welding beads during installation work). The installation of a suitable strainer is recommended.

Servicing

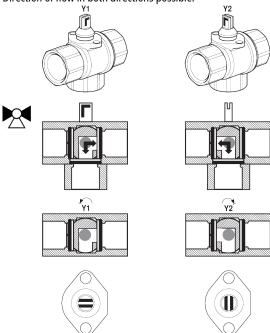
Ball valves and rotary actuators are maintenance-free.

Before any service work on the final controlling device is carried out, it is essential to isolate the rotary actuator from the power supply (by unplugging the electrical cable if necessary). Any pumps in the part of the piping system concerned must also be switched off and the appropriate slide valves closed (allow all components to cool down first if necessary and always reduce the system pressure to ambient pressure level).

The system must not be returned to service until the ball valve and the rotary actuator have been correctly reassembled in accordance with the instructions and the pipeline has been refilled by professionally trained personnel.

Flow direction

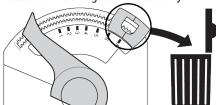
Direction of flow in both directions possible.





Flow setting

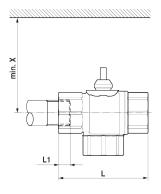
At the actuator the end stop clip has to be removed in order to get the angle of rotation of 90°, which is needed for the change-over functionality.

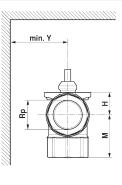


Remove end stop clip

Dimensions

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	DN	Rр	L	L1	M	Н	X	Υ	Д
		["]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	/ kg \
C315Q-H	15	1/2	58	13	32	14.5	110	35	0.19
C320Q-J	20	3/4	70	14	36	16.5	110	35	0.27
C325Q-J	25	3/4	84	17	44	16.5	110	35	0.4

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