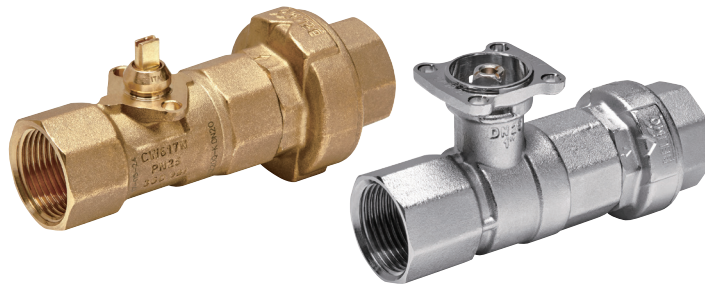


- PI Zone Valve, 2-way, internal thread
- For closed cold water systems
 - For water-side on/off control of fan coil and cooling ceilings


Type overview

Type	DN [mm]	Rp ["]	Vnom [GPM]	Vnom [m³/h]	PN [bar]
C215QFL-C	15	1/2	1.3	0.30	25
C215QFL-D	15	1/2	2.1	0.47	25
C215QFL-E	15	1/2	2.9	0.65	25
C215QFL-F0	15	1/2	4.1	0.90	25
C215QFL-F	15	1/2	5.7	1.30	25
C220QFL-F6	20	3/4	5.2	1.20	25
C220QFL-G0	20	3/4	6.7	1.50	25
C220QFL-G	20	3/4	8.2	1.90	25
C220QFL-H0	20	3/4	10.3	2.30	25
C220QFL-H	20	3/4	12.7	2.90	25
R225FL-H2	25	1	11.6	2.60	25
R225FL-J	25	1	15.9	3.60	25

Technical data

Functional Data	Media	Cold and Hot Water, up 60% glycol
	Media temperature	36 - 140 °F (2 - 60 °C)
	Differential Pressure	3 - 40 psi (0.2 - 2.8 bar)
	Body Pressure Rate	360 psi (25 bar)
	Close-Off Pressure	75 psi (5 bar)
	Pressure stability	±5%
	Leakage	0% leakage
	Flow Setting	Flow is set by factory
	Pipe connector	internal thread according to ISO 7-1
	Control Type / Angle of Rotation	Only On/Off applications and 90° rotation
	Installation position	upright to horizontal (in relation to the stem)
Servicing	maintenance free	
Materials	Body	brass body brass body nickel-plated
	Plug	stainless steel
	Stem	brass nickel-plated brass
	Stem seal	PTFE
	Ball seat	PTFE, O-Ring EPDM
Terms	Abbreviations	Vnom = nominal flow with valve completely opened

Safety Notes

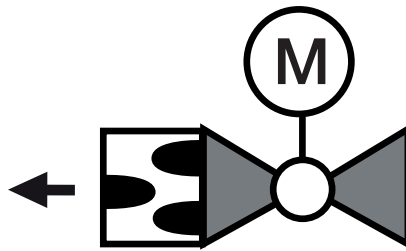

- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Only authorised specialists may carry out installation. All applicable 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.
- When back flush the valve, the differential pressure shall be under 40 psi (2.8 bar) for a maximum of 1 hour per year.

Safety Notes

- 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 open-close ball valve is adjusted by a rotary actuator. The actuator is connected by an open-close signal. The ball valve opens counterclockwise and closes clockwise.
- Constant flow volume** With a differential pressure of 3 - 40 psi (0.2 - 2.8 bar), a constant flow volume is achieved thanks to the integrated flow limiter. Even with pressure variations, the flow rate remains constant at open angle 90° and ensures a steady control.

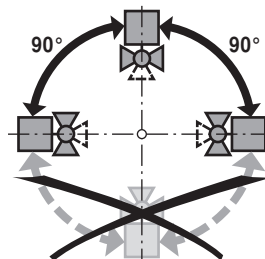


Accessories

	Description	Type
Mechanical accessories	1/2" Flow orifice for 5.5 GPM (1.25 m³/h)	FO15055
	3/4" Flow orifice for 10.0 GPM (2.27 m³/h)	FO20100
	1" Flow orifice for 21.0 GPM (4.77 m³/h)	FO25210
	Spindle extension CQ, for cooling applications only	ZCQ-E
	Housing cover for CQ actuators (white)	ZCQB-W

Installation notes

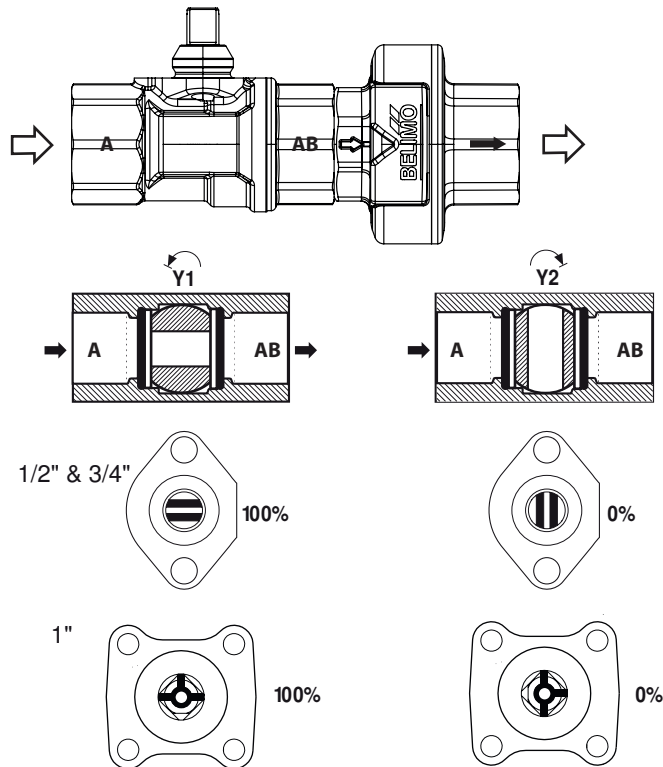
- Recommended installation positions** The ball valve can be installed upright to horizontal. The ball valve may not be installed in a hanging position, i.e. with the stem pointing downwards.



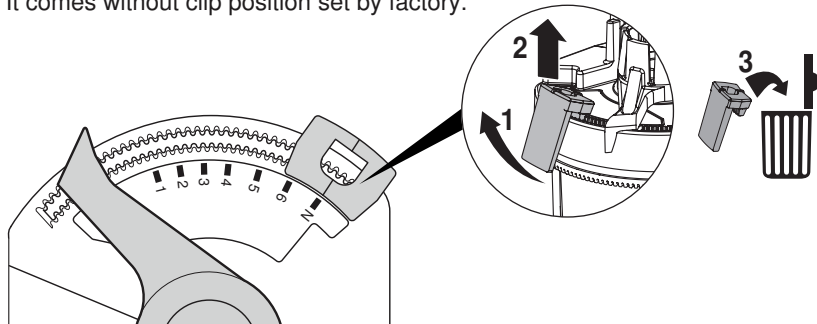
- Mounting position in the return** Installation in the return is recommended.
- Water quality requirements** The water quality requirements specified in VDI 2035 must be adhered to. Belimo valves are regulating devices. For the valves to function correctly in the long term, they must be kept free from particle debris (e.g. welding beads during installation work). Particles larger than 0.04" (1mm) should not be present.
- Maintenance** 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.

Installation notes

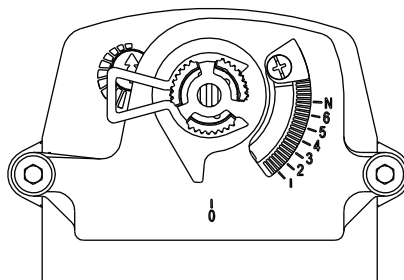
Flow direction The direction of flow, specified by an arrow on the housing, is to be complied with, since otherwise the ball valve could become damaged. Please ensure that the ball is in the correct position (marking on the spindle).



Flow setting Remove end stop clip of CQ actuator to ensure 90° angle of rotation when fully open. It comes without clip position set by factory.

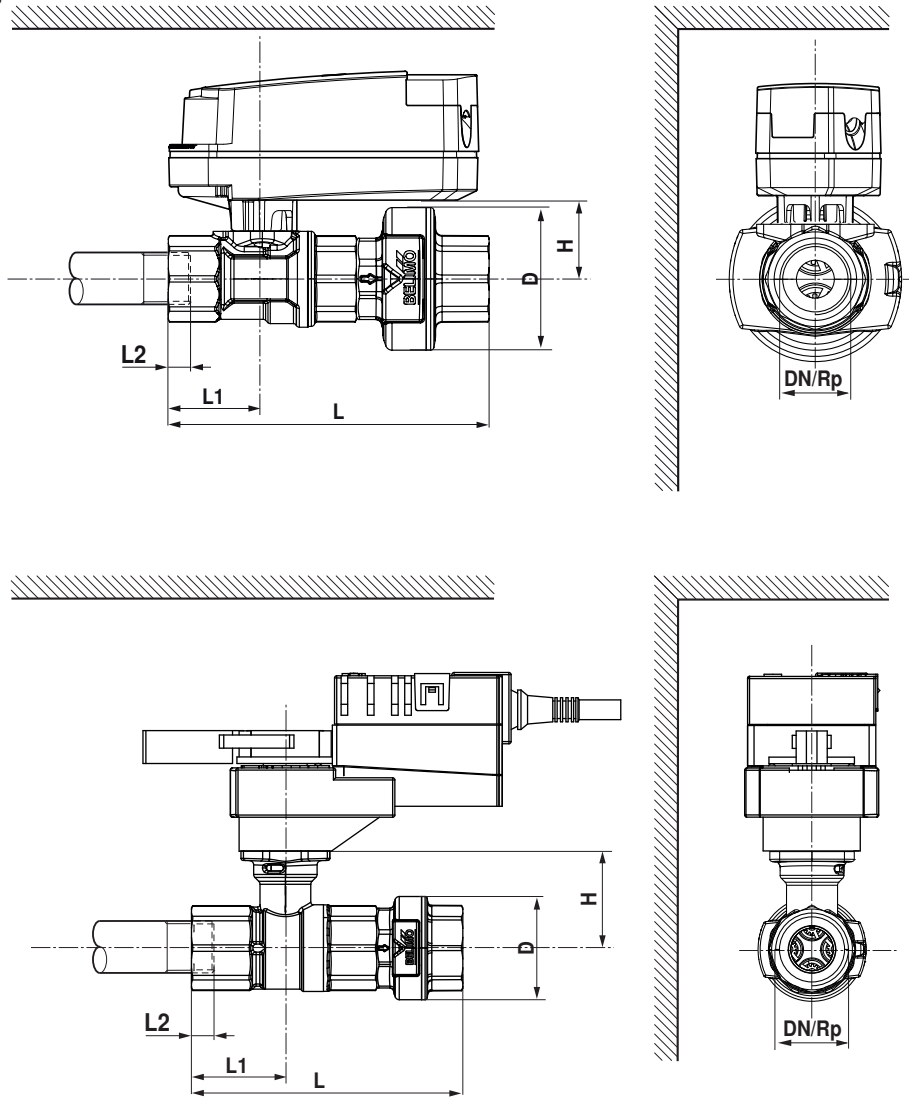


Screw loosen limit stop of TF actuator and move to end position (picture below) to ensure 90° angle of rotation when fully open.



Dimensions / Weight

Dimensional drawings



Imperial Units

Metric Units

Type	Rp ["]	D ["]	L ["]	L1 ["]	L2 ["]	H ["]	Weight [lbs]
C215QFL-C	1/2	1.73	3.94	1.14	0.51	0.95	8.82
C215QFL-D	1/2	1.73	3.94	1.14	0.51	0.95	8.82
C215QFL-E	1/2	1.73	3.94	1.14	0.51	0.95	8.82
C215QFL-F0	1/2	1.73	3.94	1.14	0.51	0.95	8.82
C215QFL-F	1/2	1.73	3.94	1.14	0.51	0.95	8.82
C220QFL-F6	3/4	1.81	4.37	1.37	0.55	1.06	11.02
C220QFL-G0	3/4	1.81	4.37	1.37	0.55	1.06	11.02
C220QFL-G	3/4	1.81	4.37	1.37	0.55	1.06	11.02
C220QFL-H0	3/4	1.81	4.37	1.37	0.55	1.06	11.02
C220QFL-H	3/4	1.81	4.37	1.37	0.55	1.06	11.02
R225FL-H2	1	1.93	5.04	1.73	0.63	1.06	17.64
R225FL-J	1	1.93	5.04	1.73	0.63	1.06	17.64

DN [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	H [mm]	Weight [kg]
15	44	100	29	13	24	4.00
15	44	100	29	13	24	4.00
15	44	100	29	13	24	4.00
15	44	100	29	13	24	4.00
15	44	100	29	13	24	4.00
20	46	111	35	14	27	5.00
20	46	111	35	14	27	5.00
20	46	111	35	14	27	5.00
20	46	111	35	14	27	5.00
20	46	111	35	14	27	5.00
25	49	128	44	16	46	8.00
25	49	128	44	16	46	8.00