

# REVERSIBLE LINEAR ACTUATOR FOR VVZ - VB2 - VM2 VALVES

**CLQ ... Eng.**



- Power supply: 24 V~ or 230 V~ ; IP 54 protection
- Three-wire electric control
- Direct mounting on valve without calibration
- Manual operation



## 1. APPLICATION

CLQ ... actuator is designed to operate, with linear movement, VVZ ... , VB2 ... , VM2 ... seat valves used in heating and air-handling plants with fluid temperature of 1...130 °C.

## 2. OPERATION

CLQ ... can be controlled by an On-Off or modulating device (thermostat, remote switch, manual switch, modulating controller). The three-wire electric signal (common - opens - closes) powers a small synchronous reversible electric motor with double coils, the rotary movement of which is converted into linear movement by an eccentric mechanism which permits a maximum run of 5.5 mm.

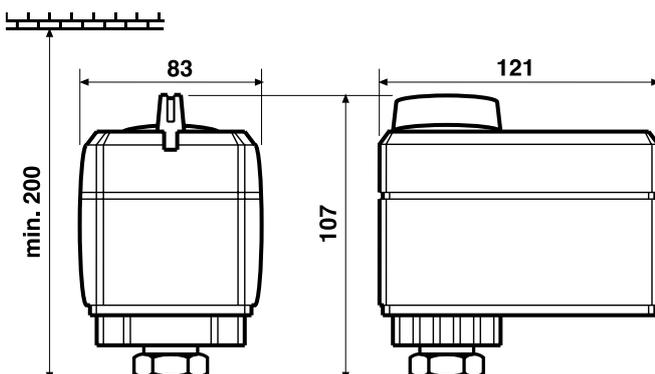
The run is limited by two microswitches operated automatically, by means of springs, when the valve plug strikes against one of its seats. This system ensures that the actuator is always able to exert its nominal force on the valve spindle, thereby permitting installation without the need to calibrate the run.

A handwheel, situated on the head of the actuator, permits the manual operation of the valve.

## 3. MODELS

Code	Power supply		Run mm	Time s/mm	Time s/ 5.5 mm	Force Nm	Valves (up to DN)		
	V~	(VA)					VVZ	VB2	VM2
<b>CLQ 078</b>	230	(2.15)	5.5	14	77	300	20 (3/4")	20	25
<b>CLQ 074</b>	24	(2.15)	5.5	14	77	300	20 (3/4")	20	25

## 4. OVERALL DIMENSION

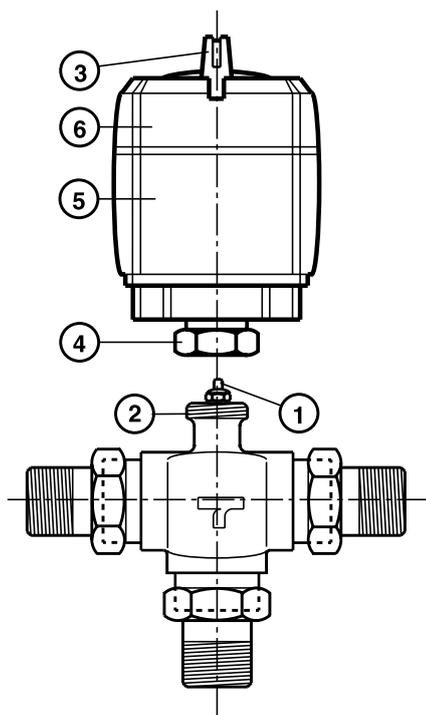
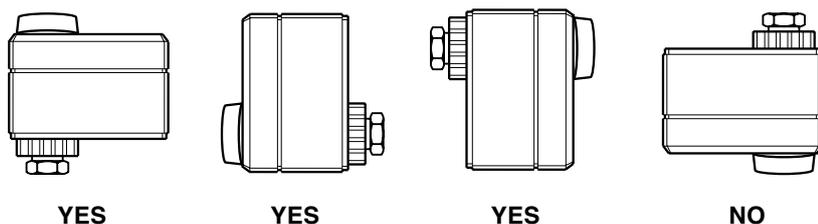


## 5. TECHNICAL DATA

Power supply:	
– CLQ ..8	230 V~ ±10%
– CLQ ..4	24 V~ ±10%
Frequency	50...60 Hz
Consumption	2.15 VA
Maximum run	5.5 mm
Time for 5.5 mm run	77 s
Force	300 Nm
Valve fluid temperature	1...130 °C
Ambient temperature :	
– operation	0...55 °C
– storage & transport	– 40...70 °C
Protection	IP 54
Weight	0.6 kg

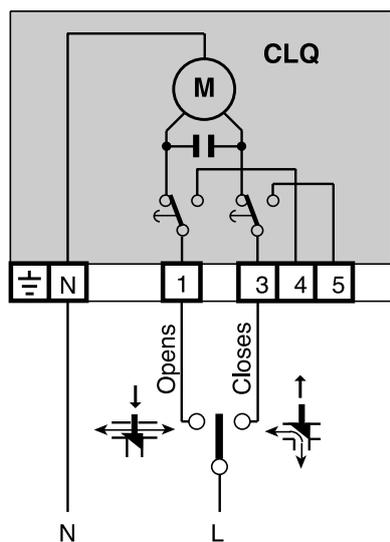
**6. INSTALLATION**

- Screw the valve coupling nut (4) on the actuator locking thread (2).
- Screw up the nut tightly.
- Carry out the electric wiring in accordance with the wiring diagram and in observance of the safety regulations in force.



- 1 – Valve spindle
- 2 – Actuator locking thread
- 3 – Manual operating handwheel
- 4 – Valve coupling nut
- 5 – Mechanism enclosure
- 6 – Protective cover for electrical parts

**7. WIRING DIAGRAM**



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