

REVERSIBLE LINEAR ACTUATOR FOR VL - VF VALVES



CLG Eng.

- Power supply : 230 - 24 V~; IP 54 protection.
- Three-wire electric control.
- Maximum run: 40 mm.; Run times : 8 s/mm - 4 s/mm.
- Direct fitting to valve without calibration.
- Manual operation.



1. APPLICATION

CLG actuator is designed for operating, with linear movement, VL and VF 65/150 seat valves used in heating and air-handling installations with fluid temperatures 0 ... 320 °C.

2. OPERATION

CLG can be operated by an On-Off device (thermostat, teleswitch, manual switch) or by a modulating controller. The three-wire electric signal (common - opens - closes) powers a reversible synchronous electric motor with double windings, the rotary movement of which is converted into linear movement by an eccentric mechanism which allows a maximum run of 40 m.

The run is limited by two microswitches operated automatically by means of springs when the valve plug strikes 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.

On the upper part of the actuator is fitted a hexagonal socket-head screw which permits using an Allen key to operate the valve manually.

3. MODELS

Model	Power supply		Run mm.	Time s/mm.	Time s/40 mm.	Force Nm	Valve (up to DN)	
	V~	(VA)					VL	VF
CLG 328	230	(7)	40	8	320	2000	65...100	65...150
CLG 324	24	(7)	40	8	320	2000	65...100	65...150
CLG 168	230	(9)	40	4	160	1500	65...100	65...150
CLG 164	24	(9)	40	4	160	1500	65...100	65...150

4. ACCESSORIES

Code	Description
FCG 002	2 SPDT auxiliary microswitches

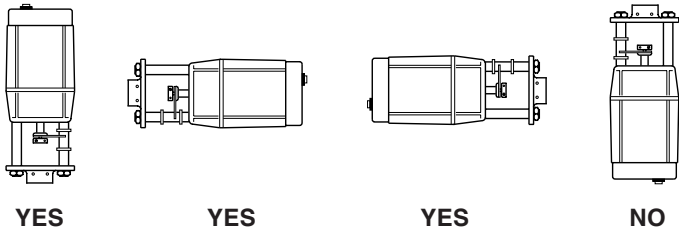
5. TECHNICAL DATA

Power supply :		Force :	
- CLG ..8	230 V~ ±10%	- CLG 32.	2,000 Nm
- CLG ..4	24 V~ ±10%	- CLG 16.	1,500 Nm
Frequency	50 ... 60 Hz	Capacity end-of-run contacts	6 (2) A
Consumption :		Valve fluid temperature	0 ... 320 °C
- CLG 32.		Ambient temperature:	
	7 VA	- operating	- 15 ... 50 °C
- CLG 16.	9 VA	- storage & transport	- 40 ... 70 °C
Maximum run	40 mm.	Protection	IP 54
Times for 40 mm. run :		Weight	3.8 kg
- CLG 32.	320 s		

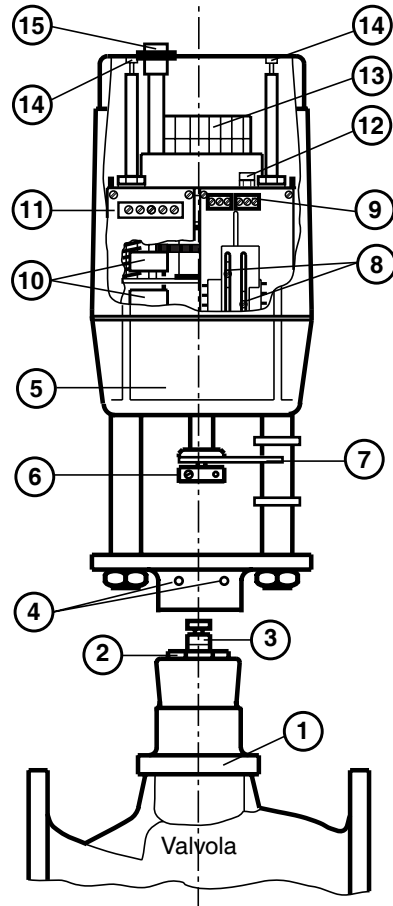
6. INSTALLATION

- Loosen the screws of the coupling block on the valve spindle (6.6).
- Loosen the actuator/valve locking screws (6.4) and withdraw the entire length of the valve spindle (6.3).
- Place the actuator on the valve so that the spindle fits into the coupling block and tighten up the locking screws (6.6).
- Press the actuator until it rests on the top of the valve.
- Tighten the actuator/valve locking screws and check correct installation by making a complete run of the valve by hand (6.15).
- Make the electrical connections according to the wiring diagram (8) and in observance of the relevant safety regulations in force.

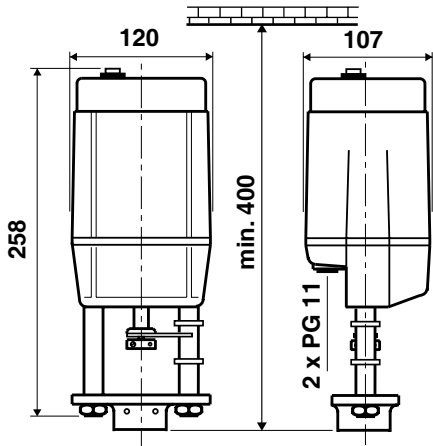
6.1 Examples of installation



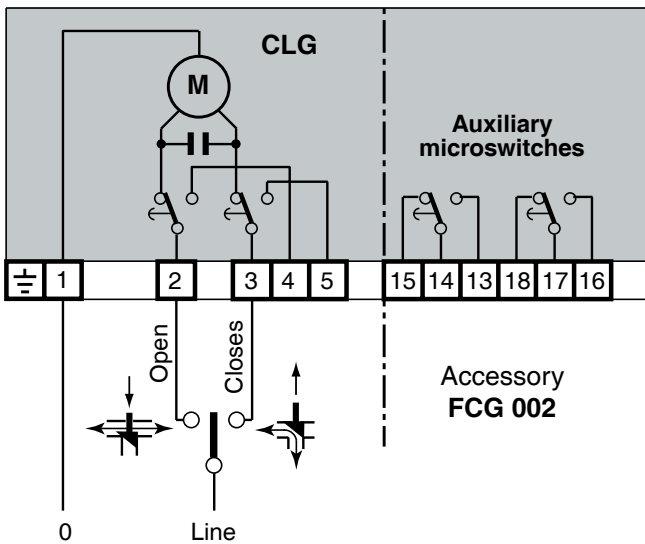
9. DESCRIPTION



7. OVERALL DIMENSIONS



8. WIRING DIAGRAM



- 1 – actuator base
- 2 – securing nut
- 3 – valve spindle
- 4 – bolts for securing actuator to valve
- 5 – protective cover
- 6 – coupling block
- 7 – run indicator
- 8 – auxiliary microswitches cams
- 9 – auxiliary switches terminal block
- 10 – end-of-run microswitches
- 11 – power supply terminal block
- 12 – earth terminal
- 13 – synchronous electric motor
- 14 – cover securing screws
- 15 – manual operation

Amendment to data sheet

Date	Revision No.	Page	Section	Details of amendment
21.01.01		All	General	Preparation data sheet
08.11.07 MC	01	All	8. Wiring diagram	Change to numbering auxiliary switches; page layout amended



Head Office & Sales
 Via San G.B. De La Salle, 4/a
 20132 - Milano
 Orders
 Reg. Off. Central & Southern
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 Tel. +39 0364773202
 Web: www.coster.eu

