M 261
04.09.00

REVERSIBLE LINEAR ACTUATORT FOR VBS - VBG VALVES

MVL Eng.

- **Power supply : 230 / 24 V~; IP 55 protection**
- **Three-wire electric control**
- **Maximum run : 45 mm. Run times : 1.33 s/mm**
- **Direct mounting on valve without calibration**
- **Manual operation**

CE

1. APPLICATION

MVL actuators is designed for operating, with reversiblelinear movement, type VBS - VBG pressure balanced seat valves used for control in plants with water at temperatures in the range – 10...+ 230 °C for VBS valves and – 10...+150 °C for VBG valves.

2. OPERATION

MVL can be controlled by an On-Off device (thermostat, teleswitch, manual switch) or by modulating controller.
The three-wire electric signal (Common-Opens-Closes) powers a small synchronous reversible 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 45 mm.
The run is limited by two microswitches, operated automatically by means of spring, 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 allowing installation without any need to calibrate the run.
A screw on the facia of the actuator allows this to be operated manually.

3. MODELS

Code	Power supply V~ (VA)	Run mm.	Time s/mm.	Time s/45 mm.	Force Nm	Valves (up to DN) VBS	VBG
MVL 068	230 (15)	45	1.33	60	1500	65	150
MVL 064	24 (15)	45	1.33	60	1500	65	150

4. ACCESSORIES

Code	Description
FCV 002	Two SPDT auxiliary microswitches

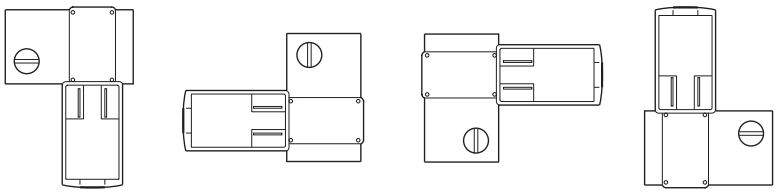
5. TECHNICAL DATA

power supply:	
- MVL ..8	230 V~ ±10%
- MVL ..4	24 V~ ±10%
Frequency	50 ... 60 Hz
Consumption	15 VA
Maximum run	45 mm
Time for 45 mm run	60 s

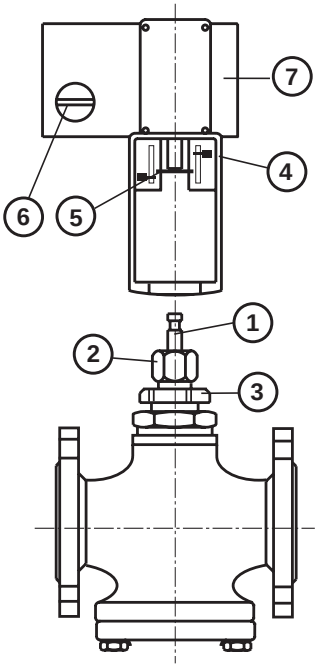
Force	1500 Nm
Capacity auxiliary contact	10 (3) A 250 V~
Valve fluid temperature	–10 ... 230 °C
Ambient temperature :	
- operating	–15 ... 50 °C
- storage & transport	– 25 ... 65 °C
Protection	IP 55
Weight	3 kg

6. INSTALLATION

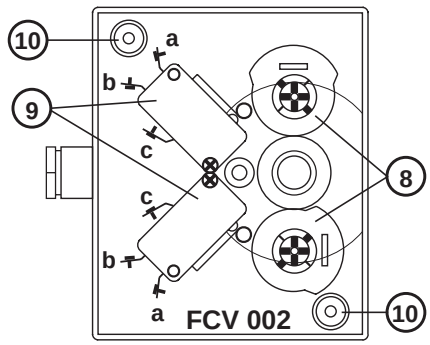
- Couple the actuator to the valve
- Screw on and tighten up the actuator locking nut (6.3).
- Carry out the wiring according to the diagram corresponding to the installation (8) and in observance of the safety regulations in force



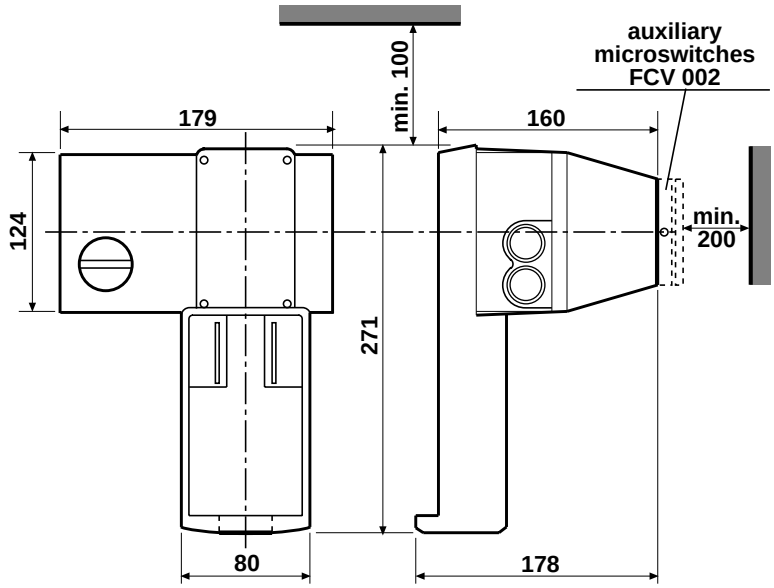
YES YES YES NO



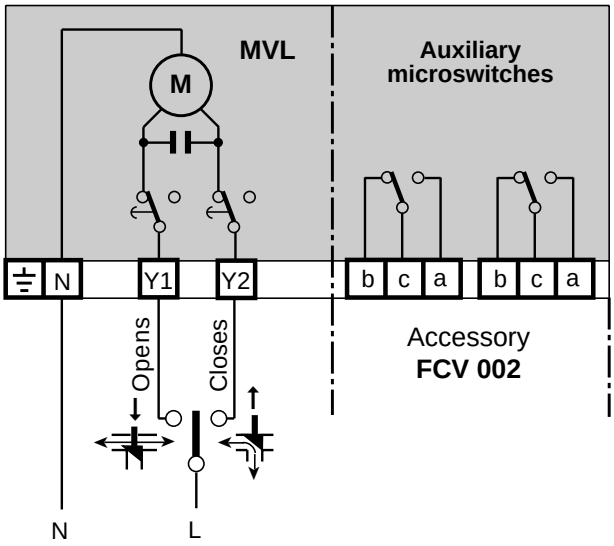
1 – Valve spindle
2 – Hydraulic gasket nut for spindle
3 – Actuator locking nut
4 – Valve coupling support
5 – Spindle coupling
6 – Manual operation screw
7 – Protective cover
8 – Adjustable end-of-run cams
9 – Auxiliary microswitches
10 – Holes for fixing



7. OVERALL DIMENSIONS



8. WIRING DIAGRAM



COSTER
CIE CONTROLLI TEMPERATURA ENERGIA

20132 Milan	Head Office & Sales
Via San G.B. De La Salle, 4/a	Tel. +39.02.2722121 (TI) Tel. +39.02.45476193 (FW) Fax +39.02.2593645
00146 Rome	Reg. Off. Central & Southern
Viale G. Marconi, 437	Tel. +39.06.5573330 Fax +39.06.5566517
25048 Edolo (BS)	Orders and Shipping
Via Gen. Treboldi 190/192	Tel. +39.0364.7732.00/02 Fax +39.0364.770016
Web: www.coster.info	E-mail: info@coster.info

UNI EN ISO 9002
IQNet
CISQ/CSQ cert.n°9115.COEE
D 33161