

REVERSIBLE LINEAR ACTUATOR FOR VBS - VBG VALVES WITH SPRING RETURN

MVA 064 Eng.

- Power supply : 24 V~; IP 55 protection
- Three-wire electric control with spring return
- maximum run : 45 mm; Run times : 1.33 s/mm
- Direct mounting on valve without calibration
- Manua operation



1. APPLICATION

MVA actuator, provided with spring return in event of power failure, is designed for operating, with reversible linear movement, 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

MVA 064 can be controlled by an On-Off device (thermostat, teleswitch, manual switch) or by a 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 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 allowing installation without any need to calibrate the run.

The spring return consists of a ribbon spring enclosed in a suitable housing mounted externally and connected directly to the main spindle.

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	Valve (up to DN) VBS	Valve (up to DN) VBG
MVA 064	24 (15)	45	1.33	60	700	65	150

4. ACCESSORIES

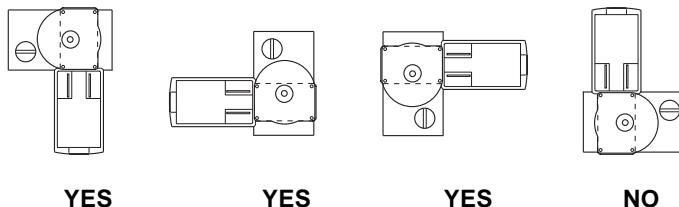
Code	Description
FCV 002	Two SPDT auxiliary microswitches

5. TECHNICAL DATA

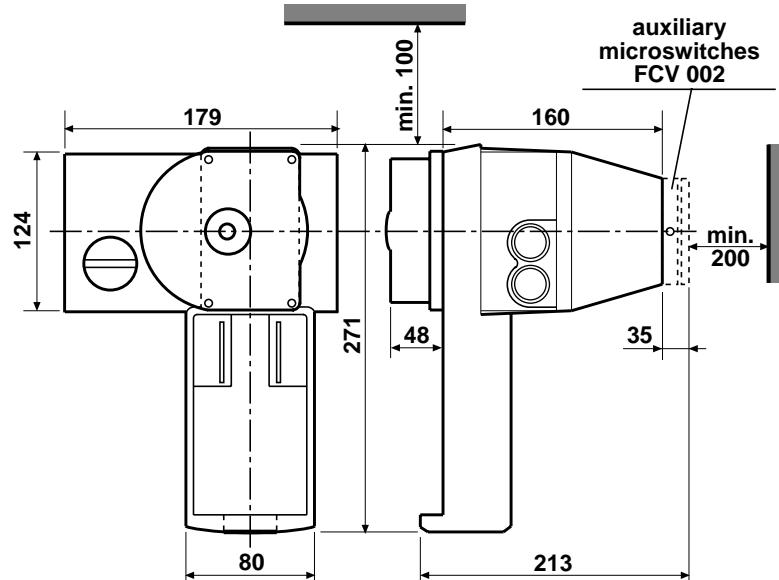
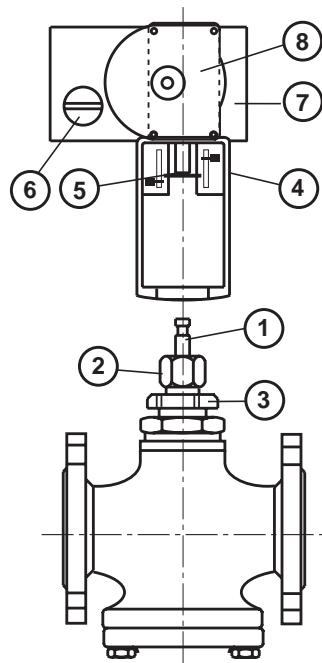
Power supply	24 V~ ±10%	Valve fluid temperature	-10 ... 230 °C
Frequency	50 ... 60 Hz	Ambient temperature :	
Consumption	15 VA	- operating	-15 ... 50 °C
Maximum run	45 mm.	- storage & transport	-25 ... 65 °C
Time for 45 mm run	60 s	Protection	IP 55
Force	700 Nm	Weight	4 kg
Capacity auxiliary contacts	10 (3) A 250 V~		

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



7. OVERALL DIMENSIONS



- 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 – Spring return housing
- 9 – Adjustable end-of-run cams
- 10 – Auxiliary microswitches
- 11 – Holes for fixing screws

8. WIRING DIAGRAMS

