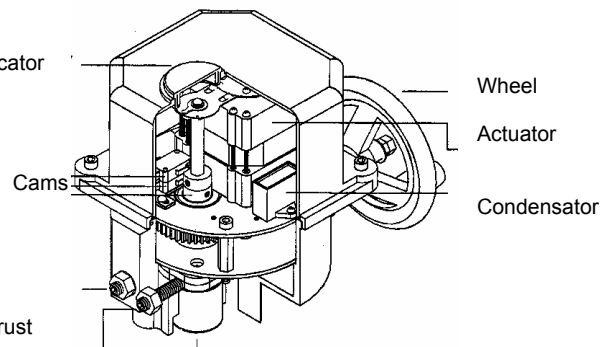
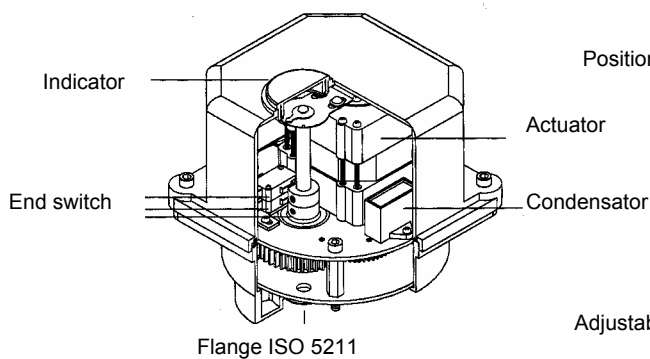


INSTALLATION AND MAINTENANCE MANUAL



Actuators UM A-C-L

1. DESCRIPTION

- 1.1 Electrical actuator for ¼ turn valves, ½ turn valves (UML).
- 1.2 Complete description on technical data sheets 2206,2224 and 2233.
- 1.3 Before any use, read carefully this manual.

2. GARANTY

- 2.1 Before contacting us, make sure to identify the type of actuator.
- 2.2 The SECTORIEL actuators are guaranteed 12 months after the delivery date. The defective pieces, after our expertise, will be replaced at our own expenses. We will not accept any claim of damage caused by a wrong use or modification of the actuator.

3. VERIFICATIONS AT THE DELIVERY

- 3.1 When delivered, check :
 - quality of the package,
 - conformity of the actuator to the ordered one,
 - possible damages.
- 3.2 It is recommended to install the actuator right after the delivery and not to leave it without using it. If the device is stored, it has to be in a dry and sheltered place.

4. PRECAUTIONS OF USE

- 4.1 Before installation, please check that there is no depressurisation and that the temperature is normal.
- 4.2 Do not install in an explosive area.

Actuators UV B-C-D-F-G

4.3 For an indoor and an outdoor sheltered installation, the protection class is IP67. For an outdoor without shelter installation, please mount the anti-condensation resistance (optional). Please do not immerge the actuator nor install it in a marine area.

- 4.4 Do not connect the actuator to the electrical current during the installation or during the maintenance of the valve on the pipe or the actuator on the valve.
- 4.5 Check the input voltage of the actuator before connecting.
- 4.6 Do not install the actuator in parallel with others. If necessary, use relays.
- 4.7 Do not install the actuator on valve with torque higher than the nominal torque of the actuator.

5. INSTALLATION AND USE

- 5.1 Install the actuator on the valve (already done for actuated valve supplied by ourselves).
- 5.2 Do the wiring as indicated below.
- 5.3 Adjust the end switches (already done for actuated valve supplied by ourselves).
- 5.4 Check the move of the valve with the indicator on the cover.

Informations données à titre indicatif et sous réserve de modifications éventuelles

INSTALLATION AND MAINTENANCE MANUAL

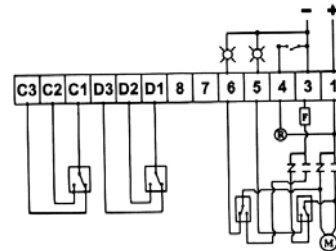
5.5 UM actuator: to use the manual driving, turn off the electrical input and turn the lower square driver with a corresponding spanner.

UV actuator: to use the manual driving, turn off the electrical input and turn the handwheel.

!!! Depending on deliveries, terminals 9, 10, 11, 12, 13, 14 may be called respectively D1, D2, D3, C1, C2, C3 !!!

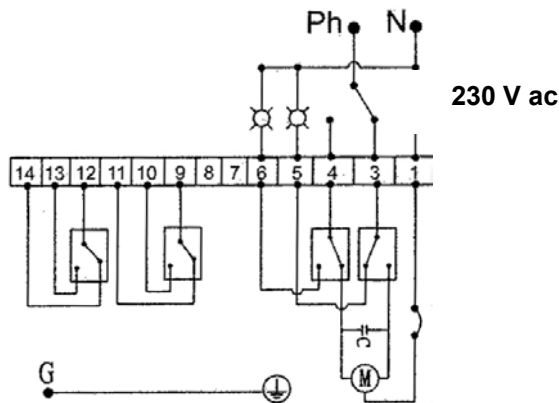
6. ADJUSTING OF THE LIMIT SWITCHES

- 6.1 The cams must be connected to the **drive shaft**.
- 6.2 Rotation clockwise = closing of the valve. The limit switch stops the actuator.
- 6.3 Rotation anti-clockwise = opening of the valve. The limit switch stops the actuator.



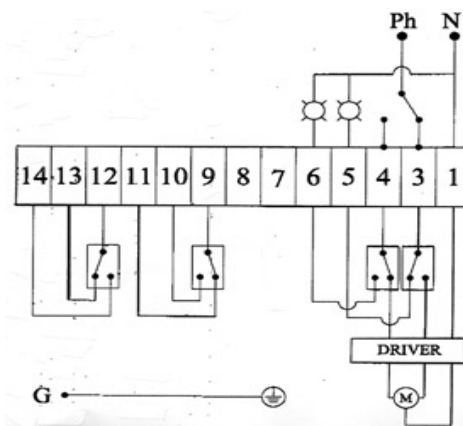
24 Vdc

7. CONNECTING SKETCH



1	Common
3	Phase opening
4	Phase closing
5	Supplied contact open
6	Supplied contact closed
7	Heating resistance
8	Heating resistance
9	Auxiliary common N° 1
10	Contact Normally Open Aux. N° 1
11	Contact Normally Closed Aux. N° 1
12	Auxiliary common N° 2
13	Contact Normally Open Aux. N° 2
14	Contact Normally Closed Aux. N° 2

24 V ac



	Wiring 1 with +
	Wiring 3 with -
	Bridge 3 and 4 opening
	Unconnected 4 closing
5	Connected contact open
6	Connected contact closed
7	Heating resistance
8	Heating resistance
D1	Auxiliary common N° 1
D2	Contact Normally Open Aux. N° 1
D3	Contact Normally Closed Aux. N° 1
C1	Auxiliary common N° 2
C2	Contact Normally Open Aux. N° 2
C3	Contact Normally Closed Aux. N° 2

ELECTRICAL ACTUATORS TYPES A-B-C-D-F-G-L UM AND UV

INSTALLATION AND MAINTENANCE MANUAL

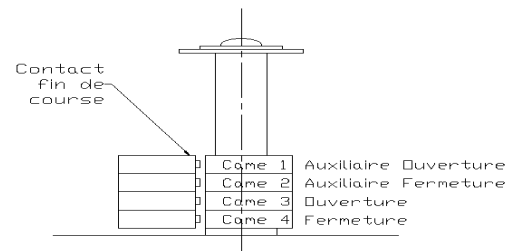
Contact fin de course: Limit switch

Cam 1 Auxiliary Opening

Came 2 Auxiliaire Fermeture : Cam 2 Auxiliary Closing

Came 3 Ouverture : Cam 3 Opening

Came 4 Fermeture: Cam 4 Closing



"ARMMASTER"

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