

SERVOMOTOR FOR ZONE VALVES

Application

The device is designed to be used in heating, cooling, ventilation and in general in civil systems with characteristics suitable to the specifications listed above. Use is not permitted outside the fields of application contemplated.



Technical specifications

- | | |
|------------------------------|---|
| o Electrical control | 2 Points |
| o Operation | ON/OFF |
| o Electrical supply | 24V DC / AC \pm 20% 50/60 Hz
230V - 50/60 Hz |
| o Absorbed power | 3.9 W |
| o Supply wire | length 80 cm |
| o Starting torque | 8 Nm |
| o Angle of manoeuvre | 90° |
| o Time of manoeuvre (90°) | 45 s |
| o Positioning precision | \pm 3% |
| o Position indicator | rotating arrow |
| o Installation | closed spaces protected from frost |
| o Operating room temperature | +5°C ...+50°C |
| o Operating humidity | max 95% U.R, absence of condensation |
| o Protection level | IP54 |
| o Isolation class | II - double isolation |
| o Certification | CE |

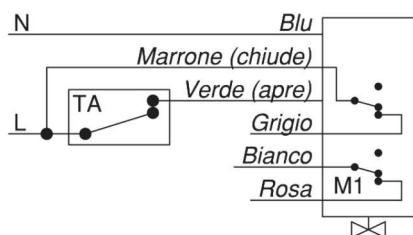
Electrical connections

- Blue wire: neutral;
- Brown wire: **fixed** phase for closing;
- Green wire: phase for opening.

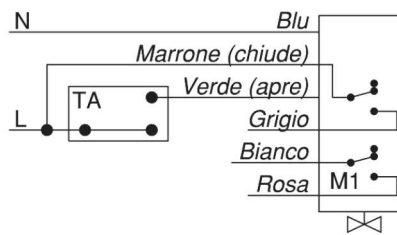
The phase at the green wire can be supplied by switch.

More than one servomotor can be activated by a single electrical control

SERVOMOTOR DURING OPENING



SERVOMOTOR DURING CLOSURE



GREY= EXIT PHASE WITH OPEN VALVE
TA= ENVIRONMENT THERMOSTAT
M1= ADDITIONAL MICROSWITCH FREE DURING OPENING

The figures represent the electrical diagram of the servomotor with **2 POINTS - ON/OFF** control. The wiring diagram is shown in the opening and closing conditions respectively. The power supply with phase to the brown wire determines the closing of the valve (electric self-closing), whereas supplying power also to the green wire the opening will follow.

General notes

The presented commands, in the absence of power supply, keep the actuator in the position relative to the moment of interruption of the power supply.

The servomotors have:

- Output phase on grey wire at valve completely open to be used as remote control (the voltage is the same as the power supply of the servo control). Its use is optional (for example: opening occurred signal, pump relay drive, etc.)

- an additional micro-switch at opening (white and pink wire, **clean contact**) which is electrically closed when the valve is open.

Its use is optional (for example: opening occurred signal, pump relay control, boiler control, PLC signal, etc.)

NOTE: The power supply cable must be connected internally to a junction box that provides IP54 or higher protection.

Manual activation

If necessary, a manual opening/closing operation of the valve body can be carried out as follows:

1. Release the servomotor from the valve body;
2. Insert the servomotor in the valve body without pressing;
3. Perform the desired manual operation using the servomotor as a knob.

Dimensions

