



DESCRIPTION

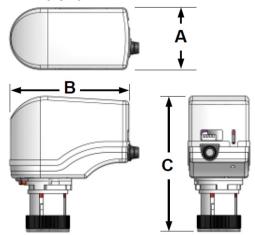
VM060

24V electromotive actuator proportional (0-10V) to drive Pressure Independent Control Valve **EvoPICV series 91, 92 and 93**.

With manual override, status LED indicator, valve stroke detection system and failsafe return system.

76TE adaptor for Fratelli Pettinaroli PICV included.





A = 53 B = 107

C = 104

APPROVALS



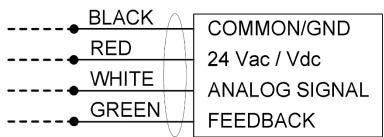
Dimensions in mm

TECHNICAL FEATURES

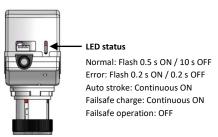
Туре	Proportional 0-10 V / 2-10 V	Storage temperature	-30° / + 50°C
Additional control signal	4-20 mA with external cable R=500 Ω	Ambient temperature	2° / 50°C
Supply voltage	24V ±10% AC/DC – 50/60 Hz	Medium temperature	2° / 120°C
Power consumption	10 VA peak, 6 VA	Relative humidity	5 – 95% non condensing
Stroke	Up to 6.5 mm, self-adjustable	Degree of protection	IP54 equivalent to NEMA 3R
Feedback	0-10 V / 2-10 V	Weight	0.4 kg
Torque	120 Nm	Cable	4 wires, 0.8 mm² [18AWG]
Running time	18.5 s/mm – 120 s for 6.5 mm	Cable length	1 m
Fail safe running time	9.2 s/mm – 60 s for 6.5 mm	Direction	Reversible

Electromotive actuators **VM060 - 24V** are used to make proportional control systems, managed by BMS handling 0(2)-10 V voltage signal or 0(4)-20 mA current signal, of HVAC installations where **EvoPICV 91, 92** and **93** balancing valves are fitted. For further information about electrical connections, see the specific section.

CONNECTION SCHEMES



LED OF STATUS INDICATION



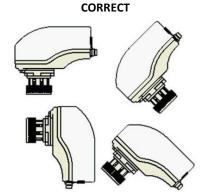


SETTINGS

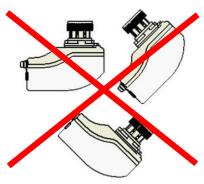
DIP-Switch 1:	DIP-Switch 2:	DIP-Switch 3:	DIP-Switch 4:
<u>DIRECTION</u>	ANTI-STICK	SIGNAL TYPE (CONTROL AND	FAIL SAFE DIRECTION
		<u>FEEDBACK)</u>	
OFF ON 1 2 3 4	OFF ON 1 2 3 4	OFF ON 1 2 3 4	OFF ON 1 2 3 4
OFF: EvoPICV valves normally	OFF: deactivated	OFF: 2-10 V	OFF: EvoPICV valves normally
open at 0 Vdc			open
OFF ON 1 2 3 4	OFF ON 1 2 3 4	OFF ON 1 2 3 4	OFF ON 1 2 3 4
ON: EvoPICV valves normally closed at 0 Vdc	ON: activated	ON: 0-10 V	ON: EvoPICV valves normally closed

INSTALLATION

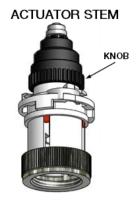
It is highly suggested to install **VM060** electromotive actuators in safe orientation that means potential leakage from the stem does not damage them. We recommend to provide sufficient clearance for potential service and replacement. Thus, any installation at more than 90° from horizontal <u>must be avoided</u>. A clearer overview is given by following pictures:







Assembly





- Put and tighten the 76TE adaptor onto the valve and then the actuator stem (previously removed from actuator) and screwed by hand.
- 2. Rotetate clockwise the black knob for manual override (no forcing) to opn the valve
- 3. Manually set the knob to test the right loop operation
- 4. After the test, assembly the actuator by putting it on the stem and turn 30° clockwise till you hear a click

To disengage the actuator, press the relaese button while turning IT counter cloickwise 30°. USE ONLY ADAPTOR AND STEM SUPPLIED WITH THE ACTUATOR. No insulation above the dotted red line.