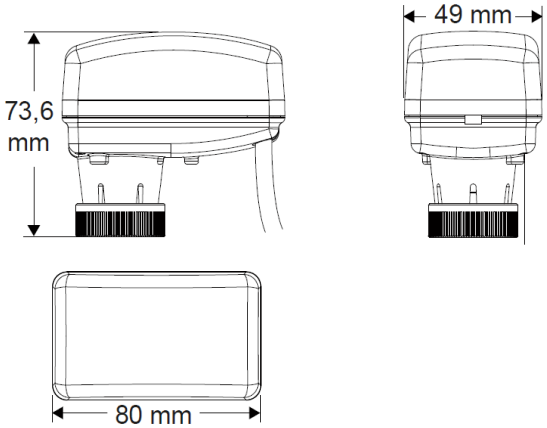


DESCRIPTION

VA7482-A

24 V electromotive proportional actuator with valve stroke detection system. Max stroke 6.3 mm. Suitable for all axial Pettinaroli PICV (**91**, **92** and **93**). Connection M30x1.5, adapted to Pettinaroli standards through specific adaptors (not included – see below).
Suitable also for 2-way, 3-way and 4-way control valves **662**-**663**-**664** (without extra adaptor)
Not suitable for 91 manufactured before 2019 (see date code on PICV) and 92 1 ½" and 2".
VA7482-AD is sold in a bulk packaging: 50 pcs per box.

DIMENSIONS



Dimensions in mm

TECHNICAL FEATURES

Type	Proportional	Max storage temperature	-20° / + 65°C (@)
Supply voltage	24V AC/DC ±15% 50-60 Hz	Max ambient temperature	0° / + 50° C (@)
Control signal	0(2)-10VDC – 0(4)-20mA	Degree of protection	IP54/III
Power consumption	2,5 VA / 1,5 W	Weight	200 g
Input impedance (voltage control)	> 100 kΩ	Colour	White
Input impedance (current control)	500 Ω	Connection cable	3 x 0.35 mm^2
Max stroke	6,3 mm – stroke detection	Cable length	2 m
Actuating force	160N	Adaptor/ring	**0A7010**: 91 and 92 ½" – ¾" **0A748X**: 93 and 92 1" – 1 ¼"
Running time	8 sec/mm	Noise level	<30 dB(A)
Max fluid temperature	95°C		

(@) non condensing

The 24 V electromotive actuator **VA7482-A** is widely employed to drive in proportional mode pressure independent control valves EVOPICV controlling heating and cooling systems by means of BMS (Building Management System) or suitable room thermostat (managing and generating proportional signal 0-10V). Electrical connection is discussed in the following section. In order to choose the right adaptor, follow the scheme below:

- **91**, **92 ½"** and **92 ¾"** with adaptor **0A7010** (not included)
- **93** and **92 1"** with adaptor **0A748X** (not included)

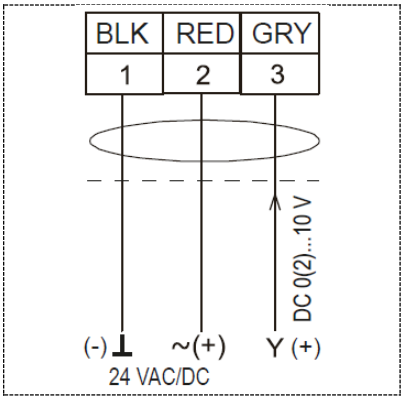
For further information refer to dedicated section on the EVOPICV technical manual and valves technical specifications.

APPROVALS

CE

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ELECTRICAL CONNECTION



OPERATING STATUS INDICATION

The 24 V electromotive actuator **VA7482-A** has a double colour LED (green/red) indicating its operating status as shown by the table below:

OFF		No power supply
Green blinking		Moving to position
Green steady on		Position reached
Red blinking		Calibration cycle
Red fast blinking		Valve stem closing failure
Red steady on		4/20 mA or 2/10 Vdc lost

INSTALLATION

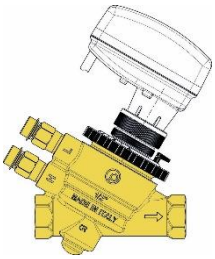


Fig.1

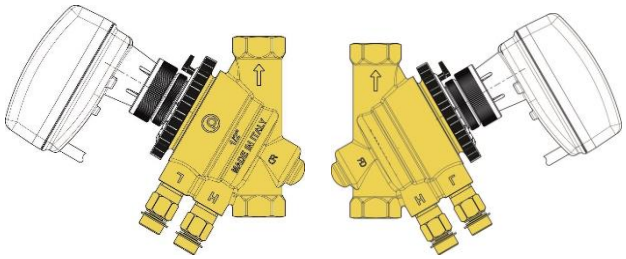


Fig.2



Fig.3

For electrical safety reasons the **VA7482-A** electromotive actuator has to be installed as shown by pictures 1 and 2. Please avoid any upside down installation as suggested by the picture 3. Always install the actuator with the pin in fully retracted position.

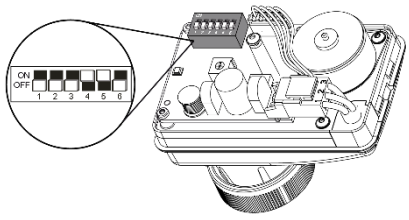
Do not power the actuator if not installed on the valve.

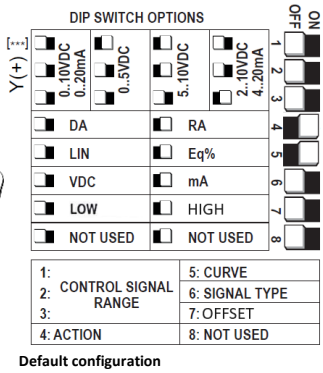
Tighten the connecting ring by hand only.

Keep 15 cm clear over the actuator to access it, if required.

SETTING

DIP SWITCH 1/2/3-6-7





Default configuration

The 24 V electromotive proportional actuator **VA7482-A** has 8 switch ON/OFF which allow the actuator set-up according to operation request.

The control signal (voltage Vdc or current mA) is set through switch n. 1/2/3

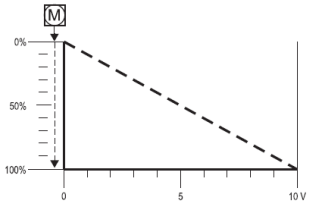
The control signal type is selected by switch n. 6

The default position of switches n. 1/2/3/6 is OFF.

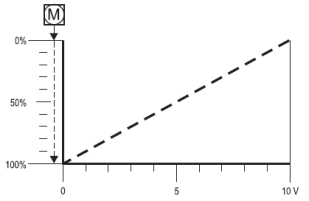
Dip-switch n. 7 sets the offset of Equalpercentage control characteristic. OFF selects hard EQM; ON selects shallow EQM. Default: ON.

DIP SWITCH 4

The switch n. 4 allows the user to change the actuator action according to digital input



switch n. 4 – OFF: Direct Action DA – when the signal increases, the valve closes. 0 V valve open, 10 V valve closed



switch n. 4 – ON (default): Reverse Action RA – when the signal increases, the valve opens. 0 V valve closed, 10 V valve open

DIP SWITCH 5

The switch n. 5 sets the actuator control characteristic in order to get a LINEAR response (switch n. 5 – OFF) or EQUAL PERCENTAGE one (switch n. 5 – ON - default) of the actuator.

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