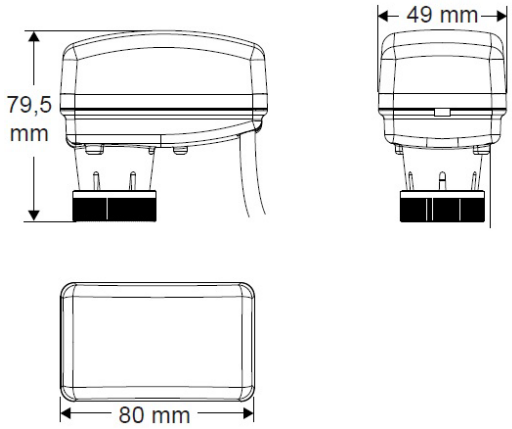
DESCRIPTION

VA7482

24V electromotive proportional actuator (INPUT signal 0-10V) to drive pressure independent control valve EVOPICV:

- **VA7482 with max. stroke 3,2 mm** for 91 (with the connection ring **0A7010**)
- **VA7482 with max. stroke 6,3 mm** for 93 (with the connection ring **0A748X**)

DIMENSIONS



TECHNICAL FEATURES

Type	Proportional	*Max storage temperature*	-20° / + 65°C (@)
Supply voltage	24V AC/DC ±15%	*Max ambient temperature*	0° / + 50° C (@)
Power consumption	2,5 VA / 1,5 W	*Degree of protection*	IP43/III
Control signal	0-10V	*Weight*	200 g
Max stroke	6,3 mm	*Colour*	White
Running time	8 sec/mm	*Connection cable*	3 x 0.35 mm^2
Actuating force	120 N	*Cable lenght*	1,5 m
Input impedance (voltage control)	> 100 kΩ	*Noise level*	<30 dB(A)
Input impedance (current control)	500 Ω	*Adaptor/ring*	0A7010 0A748X
Max fluid temperature	95°C		

(@) non condensing

The 24V electromotive actuator VA7482 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 actuator and properly install it, follow the scheme below:

- 91 with **VA7482 max. stroke 3,2 mm** (with connection ring 0A7010)
- 93 with V**A7482 max. stroke 6,3 mm** (with connection ring 0A748X)

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

APPROVALS

CE

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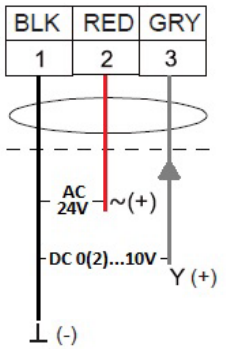
ELECTRICAL CONNECTION



OPERATING STATUS INDICATION

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

OFF	○	No power supply
Green blinking	◐ϟ	Moving to position
Green steady on	●	End stroke reached
Red blinking	◐ϟ	Calibration cycle
Red steady on	●	4/20 mA or 2/10 Vdc lost

INSTALLATION

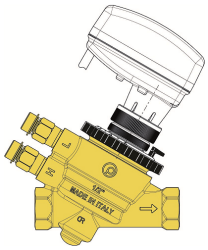


Fig. 1

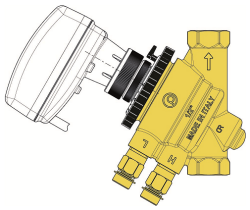
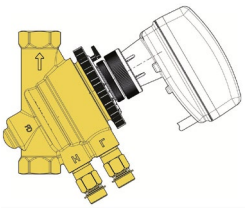


Fig. 2



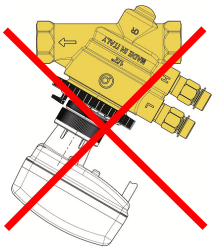
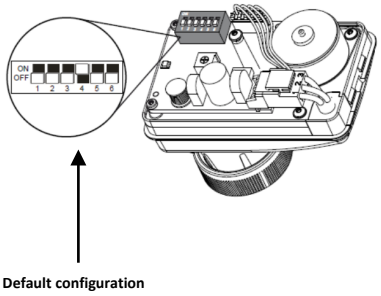


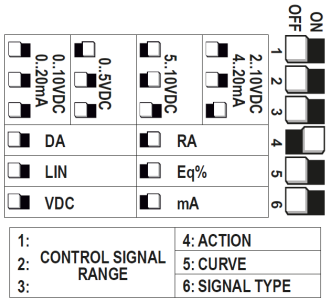
Fig. 3

For electrical safety reasons the VA7482 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.

SETTING

DIP SWITCH 1-2-3-6





The VA7482–24 (0-10V) electromotive proportional actuator has 8 switch ON/OFF which allow the actuator set-up according to operation request.

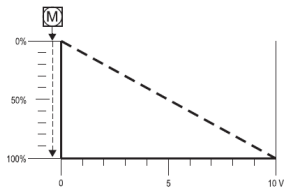
The control signal (voltage V DC or current mA) is set through switch n° 1-2-3.

The control signal type is selected by switch n°6.

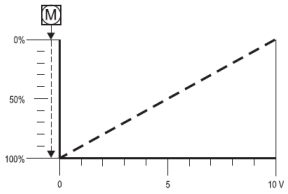
The default position of switches n°1-2-3-6 is OFF.

DIP SWITCH 4

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



switch n°4 – OFF: Direct action – When the signal increases, the valve closes. 0 V valve open, 10 V valve closed



switch n°4 – ON (default): Reverse action – 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 - default) or EQUAL PERCENTAGE one (switch n°5 - ON) of the actuator.

REMARKS

Connection rings 0A7010 and 0A748X are not included and they must be ordered separately.

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