

DESCRIPTION



VAOF5

Thermoelectrical actuator 230V ON/OFF-PWM N.C. (Normally Closed) complete of adaptor VA64 to be installed on:

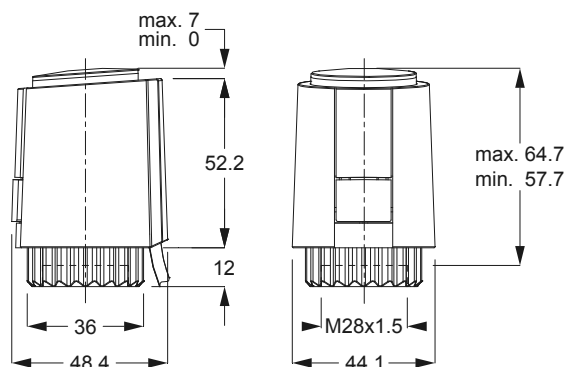
- Pressure Independent Control Valve**

VA93VL ½" x 150 l/h	VA93L ½" x 450 l/h	VA93H ½" x 850 l/h
	VA93L ¾" x 1000 l/h	VA93H ¾" x 1850 l/h

- Hydraulic kit VA813L ¾" x 1000 l/h**

VA813VL ½" x 150 l/h	VA813L ½" x 450 l/h	VA813L ¾" x 1000 l/h
	VA813H ½" x 850 l/h	VA813H ¾" x 1850 l/h

DIMENSIONS



Dimensions in mm

TECHNICAL FEATURES

Type	ON/OFF-PWM - N.C.	Storage temperature	-25° / + 60 °C
Operating voltage	230Vac + 10% - 50/60 Hz	Ambient temperature	0° / + 60 °C
Max. Inrush current	<550 mA - 100 ms max	Type of protection	IP54 / II
Stroke (actuator level)	4 mm	Weight	100 g
Operating Power	1 W	Color	grey RAL7035
Opening/Closing time	3,5 min.	Connecting cable type	H03VV - 2 x 0.75 mm ²
Actuating force	100 N + 5 %	Connecting cable length	1 m
Fluid temperature	0 / + 100°C	Surge protection	2.5kV (EN 60730-1)
		Adaptor included	VA64

(@) non condensing

The actuators VAOF5 are a 230V thermoelectric valve drive suitable to control the flow on the heating and / or cooling installation in function of the room temperature value. If the installer needs a supplementary control (i.e. pump control) in function of the actuator state (Open/close) is recommended to adopt relay (look the specific paragraph dedicated to the wiring diagrams - Figure n°2).

Actuators VAOF5 are N.C. so, if is on the de-energized state, will be close from the hydraulically point of view; the actuator VAOF5 could be connected to "voltage free" room thermostat. To have more details regarding the wiring connection look the specific paragraph.



APPROVALS



WIRING DIAGRAMS

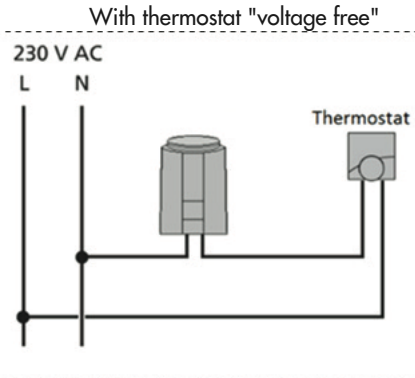


Fig. n°1

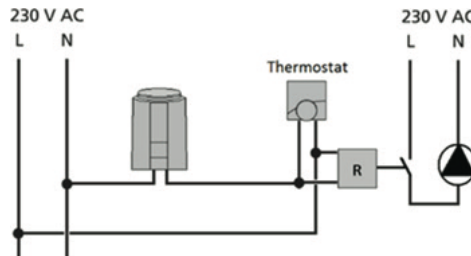


Fig. n°2

LEGENDA

N = Neutral
F = Line
R = Relay

INSTALLATION NOTES

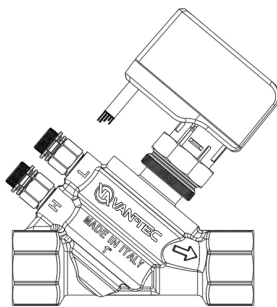


Fig.3

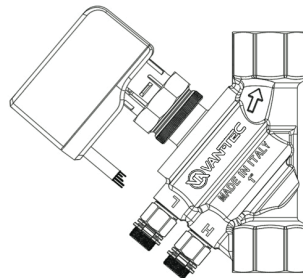


Fig.4

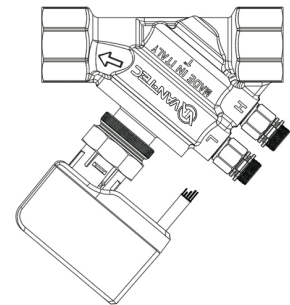


Fig.5

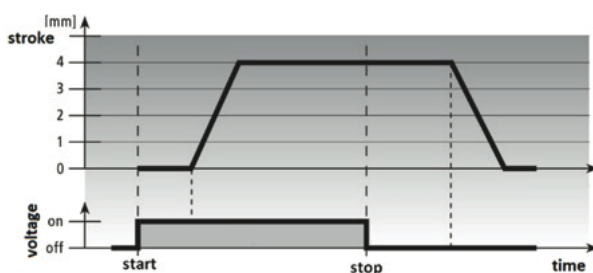
Vertical (Fig.3) or Horizontal (Fig.4) installation are recommended. An upside down (Fig.5) installation may reduce product life through special circumstances (i.e. contaminated water).

FIRST OPEN FUNCTION

The actuators VAOF5 are Normally Close (N.C.), so on the de-energized state, they will be close from the hydraulically point of view. Nevertheless the installation onto the "valve" is simple thanks to the "First Open Function": the actuator is delivered partially open.

Applying the operating voltage for more than 6 minutes the "First-Open function" will unlock. It's recommended to apply the actuator only after that all the hydraulic installations phases are fully completed

CHARACTERISTIC CURVE



On this diagram is represented the characteristic line for the actuators VAOF5 230V ON/OFF-PWM N.C. (Normally Close).

