

DESCRIPTION

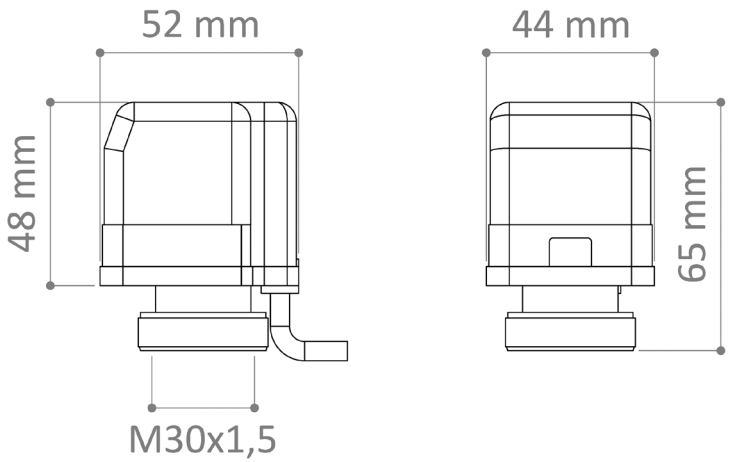
MT541O2

Thermo-electrical actuator 115 V ON/OFF N.C. (Normally Closed). Thanks to the included adapter 0A7010 it can be installed on the following products:

- Pettinaroli's radiator valves with thermostatic option (M28x1,5)
- Pettinaroli's brass, plastic and stainless steel manifolds (M28x1,5)
- Pressure independent control valves 91, 91/1, 91X series and 92 Dynasty (½" and ¾")

In addition, it can also be used to drive 2,3 and 4 ways control valves series 662, 663, 664, 662/2, 663/3. In this case the 0A7010 adapter must not be used. The valves already have the M30x1,5 connection.

DIMENSIONS



TECHNICAL FEATURES

Type	ON/OFF – N.C.	*Ambient temperature*	-5 °C / 50 °C
Operating voltage	115 V AC± 15% - 50/60 Hz	*Type of protection*	IP54 / Class II
Max. inrush current	200 mA for 500 ms	*Weight*	190 g
Stroke (actuator level)	4 mm	*Color*	White
Operating power	2,5 W	*Connecting cable type*	2 x 0,5 mm^2 (H05V2V2-F)
Opening/closing time	3 min	*Connecting cable lenght*	1 m
Actuating force	115 N	*Position indicator*	Red
Medium temperature	-5 °C / 100 °C	*Material of the actuator*	Fire retardant
Storage temperature	-20 °C / 65 °C	*Included adapter*	0A7010

Tha actuators MT541O2 are 115 V AC 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 the function of the actuator state (open/close) is recommended to adopt a relay (look the specific paragraph dedicated to the wiring diagrams, second scheme).

The actuators MT541O2 are N.C. so, on the de-energized state, they will close from the hydraulically point of view; the actuator could be connected to a "voltage free" room thermostat. To have more details regarding the wiring connections look at the specific paragraph.

The actuator incorporates an M30x1,5 connection nut. Depending on the type of valve considered, it may be necessary to use the adapter **0A7010** which is supplied in pair with the actuator.



Adapter **0A7010**

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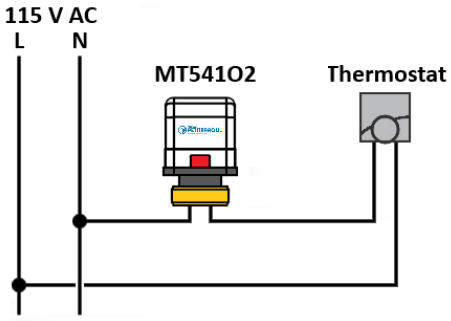
APPROVALS

CE

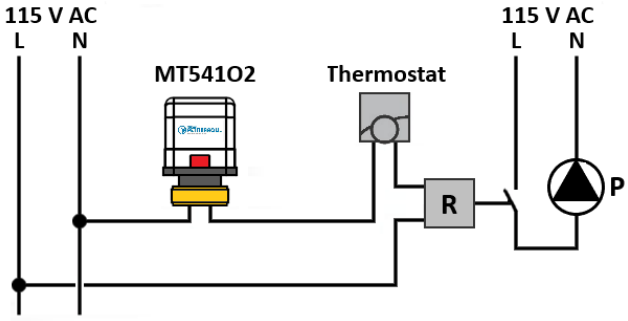
WIRING DIAGRAMS

The electrical wiring can vary depending on the type of installation:

With thermostat "voltage free"



With thermostat "voltage free" & pump control



L	N	R	P
Line	Neutral	Relay	Pump

INSTALLATION NOTES



Fig.1

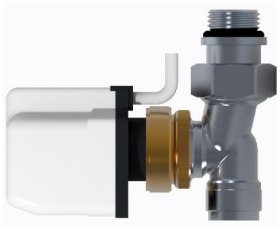


Fig.2

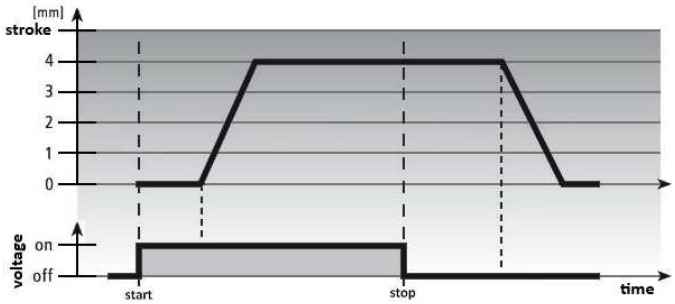


Fig.3

- The actuator should be installed as shown in pictures 1 and 2. The upside down installation shown in picture 3 might compromise the functioning of the product and be dangerous from the electrical point of view;
- The actuators MT541O2 are normally closed (N.C.) so, on the de-energized state, they will close from the hydraulically point of view. This means that, with no power, the stem will be fully extended which could make it difficult to position the actuator on the valve. In order to avoid this problem it is possible to power the actuator: in this way the stem will be retracted so it will be very easy to place the actuator on the valve. After that, power can be turned off again;
- Tighten the connecting ring by hand only. No not use any tools.

CHARACTERISTIC CURVE

On the diagram below is represented the characteristic curve for the actuator MT541O2 115 V AC ON/OFF N.C.



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