



RTA(O)M125...

Thermal actuator

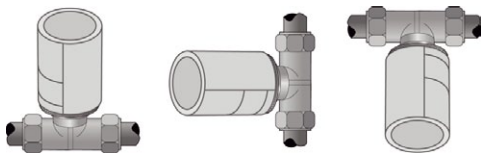
RTA(O)M125... is a range of thermal actuators intended for mounting on a valve in heating or cooling systems. The actuator can be used for controlling radiator circuits, solar heating systems, heating or cooling coils, floor heating etc.

Function

The actuator uses a PTC resistor-heated elastic element and a compression spring. When the supply voltage is switched on, the wax element is heated, moving the integrated piston. The force generated by the movement is transferred to the valve stem, opening and closing the valve.

Installation

The actuator connects to the valve using an adapter with a snap-on connection. The actuator can be mounted vertically or horizontally. Upside down mounting is also possible but might reduce the life of the actuator.



Adjustment to valves of other brands

RTA(O)M125... can be adjusted to almost any brand of valve by simply connecting the actuator to a snap-on adapter. A model overview is available in the adapter model table on page 3. The actuator uses a patented solution which offers 100 % protection against leaking valves, ensuring a long lifespan.

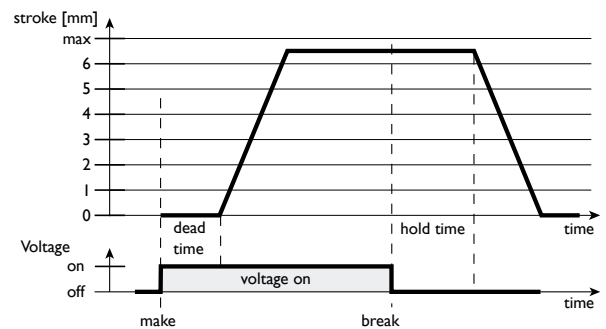
Normally closed models (RTAM...)

Once the supply voltage is applied and the dead time has expired the valve will open* as the actuator stem retracts inwards. Once the supply voltage is cut and the hold time has expired, the wax element will cool and the valve will close* through the closing force of the compression spring and actuator stem extending outward. The closing force of the compression spring keeps the valve normally closed.

* This applies to valves that close when the stem is pushed down.

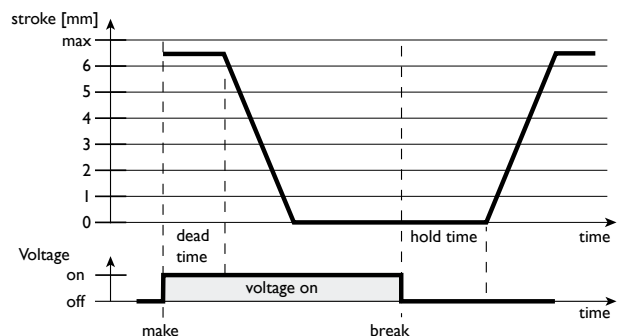
Short facts about RTA(O)M125...

- 100% protection against leaky valves
- Noiseless and maintenance-free
- Available in normally closed (NC) or normally open (NO) models
- Power consumption 1.2 W
- Modern and compact design



Normally open models (RTAOM...)

For normally open actuator models, the actuator will function in the opposite way to normally closed models.



Models

Model	Supply voltage	Control signal
RTAM125-24	24 V AC/DC	On/off, NC
RTAOM125-24	24 V AC/DC	On/off, NO
RTAM125-230	230 V AC	On/off, NC
RTAOM125-230	230 V AC	On/off, NO
RTAM125-24A	24 V AC	0...10 V, NC

The RTAM actuators are available with different cable lengths as option.

Initiation

NC type valves are delivered with the actuator fixed in an open position. This means hydraulic circuits can be filled and vented with the actuator mounted. The valve will remain open until the actuator has been activated for more than 6 minutes and the power supply interrupted.

Technical data

Supply voltage	24 V AC, 24 V AC/DC or 230 V AC
Control signal	On/off or 0...10 V
Power consumption	24 V, 1.2 W, initially 300 mA alt. 230 V, 1.2 W, initially 550 mA
Protection class	IP54
Installation	Snap-on
Closing/opening time	Approx. 4,5 min
Stroke	6.5 mm
Storage temperature	-25...+65°C
Ambient temperature	0...60°C
Force	125 N
Cable	Length 2 m, cable area 0.75 mm ² , PVC.
Weight	24 V AC/DC and 230 V AC, 100 g. 24 V AC, 111 g.



EMC / LVD: This product conforms to the requirements of European EMC standards EN 61000-6-1 and EN 61000-6-3, as well as the requirements of LVD standards EN 60730-1 and EN 60730-2-14. It carries the CE mark.

RoHS: This product conforms with the Directive 2011/65/EU of the European Parliament and of the Council.

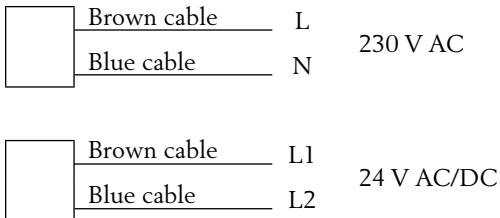
Adapters for adjustment of RTA(O)M125... to other brands of valves

Brand	Type	Thread	Colour
Siemens / Oventrop	VA10	M30 x 1.5	Light grey
TA	VA32	M28 x 1.5	Green
Oventrop	VA39	M30 x 1.5	White
Cazzaniga	VA44H	M32 x 1.5	Grey
Honeywell	VA50	M30 x 1.5	Dark grey
MMA	VA54	M28 x 1.5	Dark blue

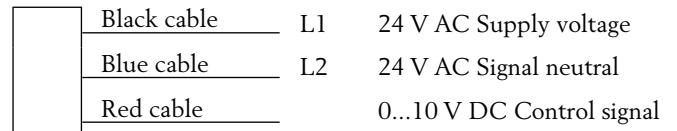
Brand	Type	Thread	Colour
Danfoss RAV/L	VA59	M30 x 1.5	Light grey
Pettinaroli	VA64	M28 x 1.5	Grey
Danfoss RAV	VA72	M30 x 1.5	Light grey
Danfoss RA	VA78	M30 x 1.5	White
TA / Heimeier	VA80	M30 x 1.5	White/grey

Wiring

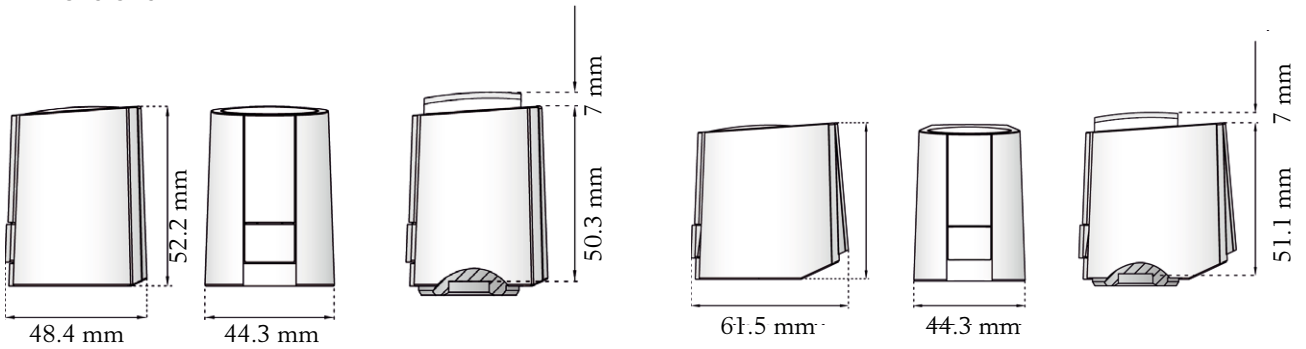
On/off models



0...10 V models



Dimensions



Head office Sweden

Phone: +46 31 720 02 00
 Web: www.regincontrols.com
 Mail: info@regin.se