MOTORISED DAMPER
DUAL-ACTUATOR

anjos
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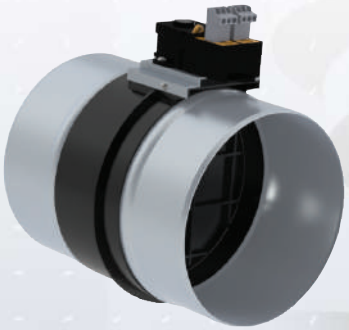
RM2VT and RM2VT dual flow rate

dia 100 to Ø 200 mm

Commande 12/24 VAC/DC
2 thermal actuators

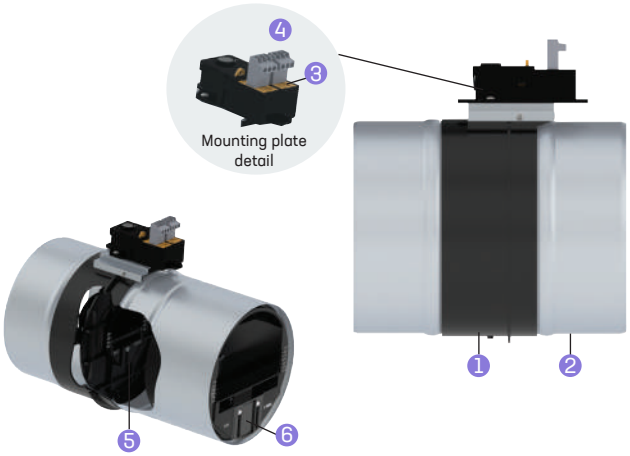


RM2VT and RM2VT Bi-Débits

Presentation

The RM2VT dual actuator motorised damper is a circular damper designed to shut off a branch duct in a ventilation or air conditioning circuit. The RM2VT dual actuator, dual flow rate motorised damper is a circular damper designed to regulate airflow through a branch duct in a ventilation or air conditioning circuit in full or trickle mode.

This damper is supplied by 2 electrical cables with a toggle switch. It requires time-controlled power supply (using a PLC or any other suitable system) to ensure power supply for opening or closing for 60 seconds (see electrical connections).
This means that the RM2VT dual actuator has zero consumption in both open and closed positions. The RM2VT dual actuator, dual flow rate motorised damper is a circular damper designed to regulate airflow through a branch duct in a ventilation or air conditioning circuit in full or trickle mode.



1. Plastic body + flap
2. Connection adapters in galvanised steel
3. 2 thermal actuators for opening/closing the flap
4. Thermal actuator connection blocks

Additional components for RM2VT dual actuator, dual flow rate

5. Flow regulator in the flap to regulate the minimum flow rate
6. Flow regulator upstream of the damper to regulate the maximum flow rate

Technical specifications

- 12/24 V power supply via two 2-wire cables (2 x 0.75 mm²)
- Consumption at opening or closing 8 W (1 minute of operation)
- Operating pressure: P ≤ 200 Pa (250 Pa for dual flow rate)
- Maximum temperature for use: 60°C

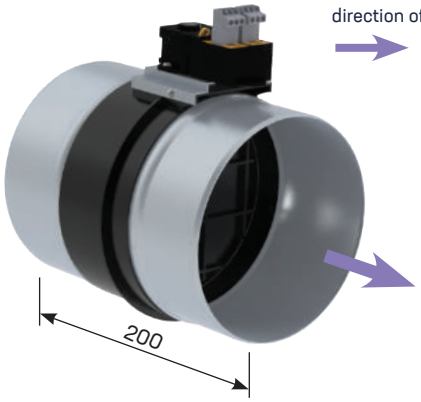
Response time	
on opening	60 sec.
on closing	60 sec.

Installation

The damper can be fitted to all types of circular duct with diameters from 100 to 200 mm. It must remain easily accessible for maintenance operations. The ducts are fitted onto the metal connection adapters without touching the plastic section.

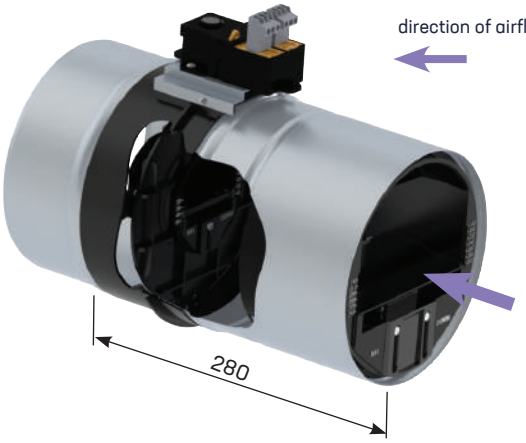
Depending on the type of duct, sealant, adhesive tape or collars are used to ensure airtightness. **The direction of airflow indicated on the damper must be complied with.**

RM2VT



Do not insert screws into the plastic body or within 20 mm of either side of it (risk of damper jamming). Outside of this area, the screws must not be more than 20 mm long at most.
Once the damper has been fitted, do not operate the flap manually (risk of damage to the motor).
Under no circumstances should the metal connection adapters be separated from the plastic section.
To the ensure proper ventilation of the thermal actuators' housing, the protective cover of the actuators' mounting plate must be completely unobstructed and not covered in glass wool or any other material. The damper must be mounted so that the actuator housing is positioned at the top or on the side, but never on the bottom. The damper is either open or closed, it cannot be partially opened or closed (the installation of stops that would prevent full opening or closure is not permitted).
It must not be subjected to prolonged operation in extremely humid conditions and never above 90% relative humidity.

RM2VT dual flow rate



Used to modulate airflow in tertiary ventilation systems, the RM2VT dual actuator, dual flow rate self-regulating motorised damper, operates in full or trickle mode as determined by a valve controlled by 2 thermal actuators. In closed position, a solid damper flap fitted with a Ø80 or Ø100 mm flow regulator controls the trickle flow rate. In open position, a flow regulator fitted upstream of the damper controls the nominal flow rate. Flow regulators ensure fixed airflow within a pressure range of 50 to 250 Pa for minimum flow rate and 60 to 250 Pa for maximum flow rate.

Available RM2VT dual flow rate

RM2VT dual flow rate	Mini flow rate	Maxi flow rate
Ø 125	15 à 50 m³/h	50 à 180 m³/h
Ø 160	15 à 100 m³/h	100 à 300 m³/h
Ø 200	15 à 100 m³/h	100 à 500 m³/h

Electrical connections

The cables are connected to the junction boxes mounted on the thermal actuators.

Operation

The damper is fully opened by supplying electrical power to the actuator (V1) for one minute (diagram 1). Power must then be cut off (diagram 2).
The damper is fully closed by supplying electrical power to the actuator (V2) for one minute (diagram 3). Power must then be cut off (diagram 4).

Power supply must be cut off for at least 5 minutes between opening and closing the flap.

Power is only supplied to the damper during the opening and closing of the flap.

For safety protection, use a 1A phase + neutral circuit breaker. Before carrying out any work on the dampers, switch off the power supply on the main distribution board.

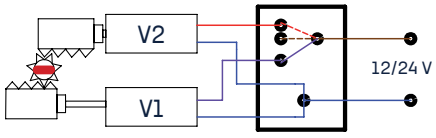


Diagram 1: Flap open / Power supply 1 min.

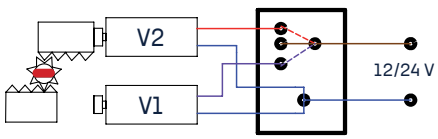


Diagram 2: Flap open / Power cut off

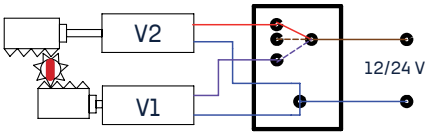


Diagram 3: Flap closed / Power supply 1 min.

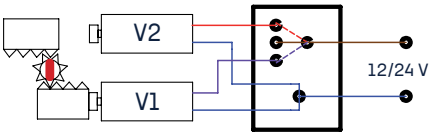


Diagram 4: Flap closed / Power cut off

The position of the flap is shown by an indicator on the spindle: closed position ( ) or open position ( )

Characteristics

Codification

RM2VT dual actuator

Designation	Code
RM2VT dual actuator Ø100 12/24 V	**1290**
RM2VT dual actuator Ø125 12/24 V	**1291**
RM2VT dual actuator Ø150 12/24 V	**1292**
RM2VT dual actuator Ø160 12/24 V	**1293**
RM2VT dual actuator Ø200 12/24 V	**1295**

RM2VT dual actuator dual flow rate

Designation	Code
RM2VT dual actuator, dual flow Ø125 12/24 V	**1296**
RM2VT dual actuator, dual flow Ø160 12/24 V	**1298**
RM2VT dual actuator, dual flow Ø200 12/24 V	**1299**