

Centra

VMM/VMK

Rotary Actuators, 3-point control

Application

The Resideo Centra VMM/VMK actuators are designed to provide floating control in heating and air conditioning systems. High control performance and a robust design are standard for this actuator.

In combination with Resideo Centra rotary valves (DR, DRU, DRG, ZR, ZRK), it is possible to control very exact heating and cooling water temperatures.

The mechanical interface between actuator and valve is designed for reliable operation.

Actuators with torques from 10 Nm up to 40 Nm are available for a wide range of rotary mixing valves (DN 15 up to DN 200).

Approvals

- CE

Special Features

- Maintenance-free electrical actuator for rotary valves
- Direct mounting on Centra rotary valves
- High torque for reliable operation
- Protected against overload and blocking which results in long lifetime
- Clear position indicator
- Large wiring cabinet for easy electrical installation
- Manual operation possible



Technical Data

Specifications	
Angle of rotation:	90 °
Protection standard:	IP54 per EN 60529
Insulation class:	I per EN 60730
Control signal:	3-point
Weight:	1.5 kg
Ambient operating temperature:	0 to 60 °C
Relative humidity:	non-condensing

Method of Operation

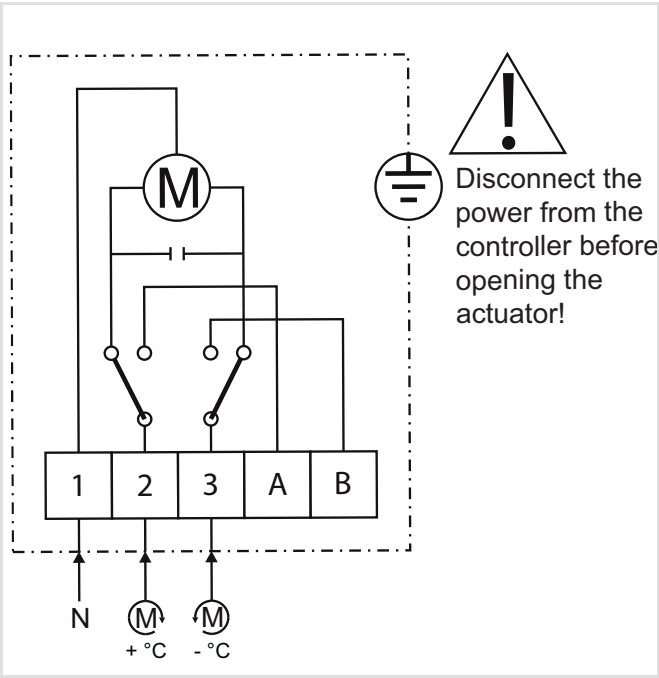
The actuator is powered by a synchronous motor. The spindle of the actuator rotates 90 °. In the end positions, the motor is switched off by end switches. Manual operation declutches the gear from the valve. As soon as the actuator is powered, the valve is driven by the actuator again. No adjustment necessary. The actuator is maintenance-free.

Installation Guidelines

Mounting

Before mounting the actuator, position the rotary valve according to its installation instruction. In the case of boiler applications, it is recommended that the actuator be mounted in a vertical position. If mounted in the horizontal position, one should position an isolation shield between the top of the valve and the actuator; this is to protect it against radiant heat and to ensure ambient temperatures of below 60 °C.

Wiring



Dimensions

VMM/VMK

Overview

The technical drawings show the actuator in vertical position. Dimension A is the total height, B is the width, C is the height of the motor, and D is the width of the motor. The dimensions are listed in the table below:

A	B	C	D
146	133	121	133

Note: All dimensions in mm unless stated otherwise.
Actuator shown in vertical position.

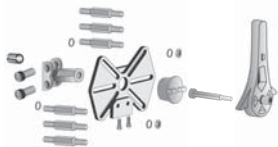
Ordering Information

Options

Nominal torque (Nm)	Power supply	Power consumption	Runtime (min/90°)	Item Number
8	230 V AC	3.5 VA	0.6	VMK8-4*
8	24 V AC	5.0 VA	0.6	VMK8-4-24*
10	230 V AC	3.5 VA	1.5	VMK10-4*
10	24 V AC	5.0 VA	1.5	VMK10-4-24*
10	230 V AC	3.5 VA	1.6	VMM10
10	24 V AC	5.0 VA	1.6	VMM10-24
20	230 V AC	3.5 VA	1.6	VMM20
20	24 V AC	5.0 VA	1.6	VMM20-24
30	230 V AC	3.5 VA	2.3	VMM30
30	24 V AC	5.0 VA	2.3	VMM30-24
40	230 V AC	3.5 VA	3.5	VMM40
40	24 V AC	6.0 VA	3.5	VMM40-24
40	230 V AC	3.5 VA	1.2	VMM40F
40	24 V AC	6.0 VA	1.2	VMM40-24F

* The VMK... are designed for ZRK rotary valves only

Accessories

	Description	Dimension	Item No.
	Feedback potentiometer 10 kOhm Suitable for all VMM/VMK variants		VMP10-90
	Auxiliary switch package Ready-to-mount assembly consisting of two switches (3A / 250 V AC) and two switching cams; max. one VMS2 per actuator.		VMS2
	Universal attachment kit for almost all third-party makes In some cases rework at the construction site must be accepted, only for actuators VMM and VRM.		ATU2040A

Spare Parts

Rotary Actuator VMM/VMK, from 1986 onwards

Overview	Description	Voltage	Item No.
	1 Synchronous motor for		
	VMK8-4	230 V	030000345
	VMM10-4		
	VMK10		
	VMM20		
	VMM30		
	VMK8-4-24	24 V	030000432
	VMK10-4-24		
	VMM10-24		
	VMM20-24		
	VMM30-24		
	VMM40-24	24 V	030000531
	2 PCB for		
	VMK8-4	230 V	030000346
	VMK10-4		
	VMM10		
	VMM20		
	VMM30		
	VMM40		
	VMM40F		
	VMK8-4-24	24 V	030000433
	VMK10-4-24		
	VMM10-24		
	VMM20-24		
	VMM30-24		
	VMM40-24	24 V	030000498
	3 Bonnet with screws		
			030000212
	Gear set I-III (no fig.) for		
	VMM20, VMM40-24	230 V AC, 24 V AC	030000482

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Subject to change.EN0H-1701GE23 R0624
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