

Data sheet

Actuator for three point control AMV 435

Description



AMV 435 actuator is used with two and three-way valves type VRB, VRG, VF and VL up to DN 80 diameter.

The advanced design incorporates load related 'switch-off' to ensure that actuators and valves are not exposed to overload.

Main data:

- Nominal voltage:
 - 24 V, 50 Hz/60 Hz
 - 230 V, 50 Hz/60 Hz
- Control input signal: 3 point
- Force: 400 N
- Stroke: 20 mm
- Speed (selectable):
 - 7.5 s/mm
 - 15 s/mm
- Max. medium temperature: 130 °C
- End-position signal
- Manual operation

Ordering

Type	Supply voltage	Code No.
AMV 435	24 VAC	082H0162
	230 VAC	082H0163

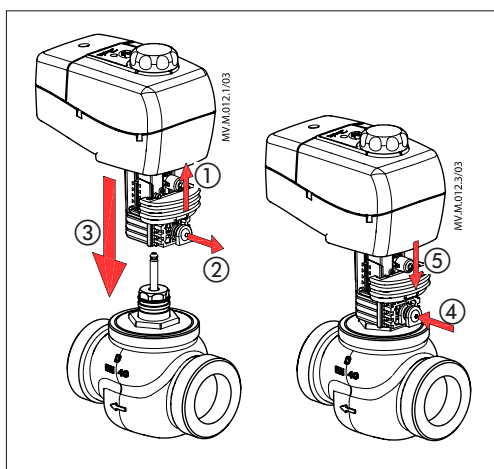
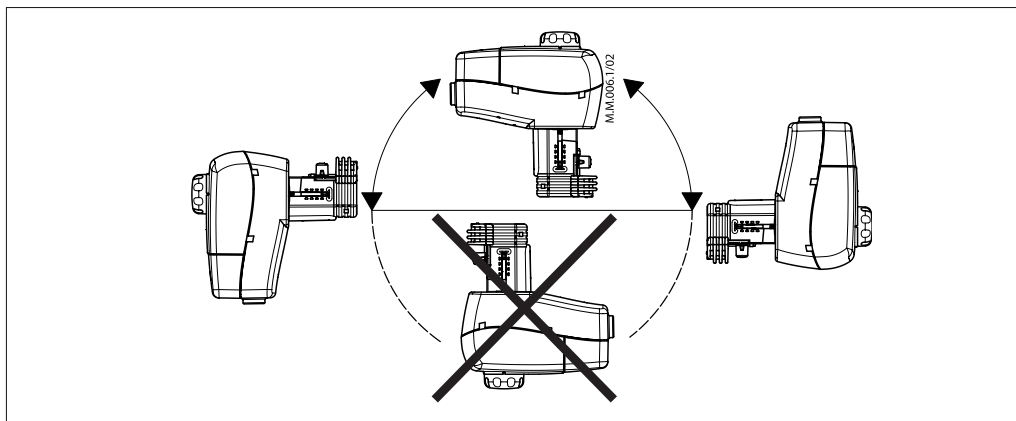
Accessories

Type	Code No.
Adapter for old valves VRB, VRG, VF, VL	065Z0313

Technical data

Power supply	24 VAC/VDC, 230 VAC; +10 to -15%
Power consumption	2 VA
Frequency	50 Hz or 60 Hz (for VAC power supply)
Control input	3 point
Close of force	400 N
Max. stroke	20 mm
Speed	7.5 s/mm or 15 s/mm
Max. medium temperature	130 °C
Ambient temperature	0 ... 55 °C
Storage and transport temperature	-40 ... +70 °C
Protection class	II
Degree of protection	IP 54
Weight	0.45 kg
CE - marking in accordance with standards	Low Voltage Directive (LVD) 2006/95/EC: EN 60730-1, EN 60730-2-14 EMC Directive 2004/108/EC: EN 60730-1, EN 60730-2-14

Installation



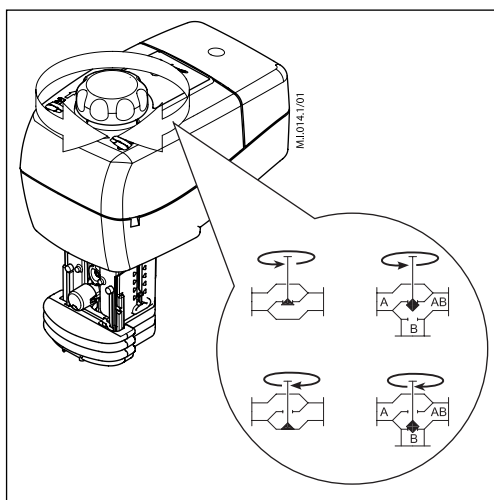
Mechanical

The actuator should be mounted with the valve stem in either horizontal position or pointing upwards. Connecting the actuator to the valve body does not require a tool. Allow for necessary clearance for maintenance purposes.

Electrical

Electrical connections can be accessed by removing the cover. Two holes for M16 × 1.5 cable can be made. A rubber cable gland is provided. Note that any cable gland that is used must not compromise the appliance's IP rating and the cable should have a minimum diameter of 6.2 mm.

Manual override



Turn the control knob to the required position for manual override. Observe the rotation of direction symbol.

- Disconnect control signal
- Adjust valve position using the control knob
- Set valve to required position
- Restore control signal

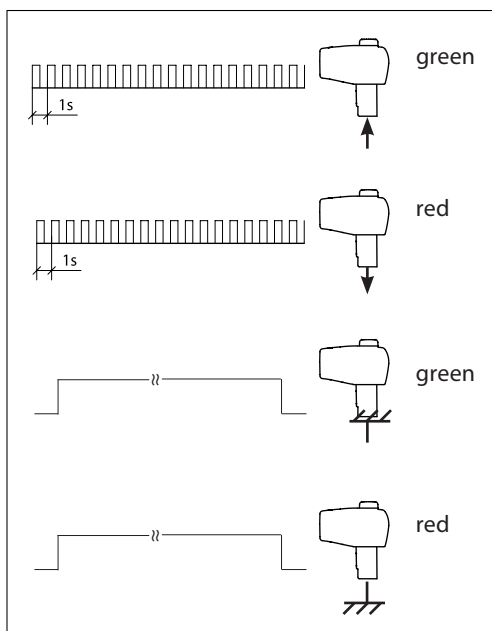
Commissioning

Complete the mechanical and electrical installation and perform the necessary checks and tests:

- Apply power
- Apply the appropriate control signal and check that the valve stem direction is correct for the application.

The unit is now fully commissioned.

LED indicators



Flashing green LED:
moving to retracted position

Constant green LED:
retracted position reached

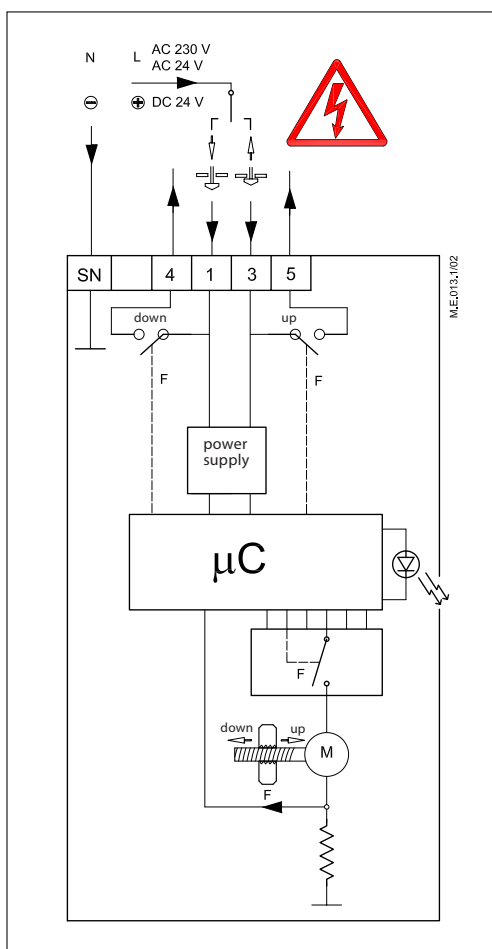
Flashing red LED:
moving to extracted position

Constant red LED:
extracted position reached

Wiring



Do not touch anything on the PCB!
Do not remove the cover before the
power supply is fully switched off.
**Max. power allowed on ports
4 and 5 is 7 VA.**



Terminals 1, 3:

Control voltage input from the controller.
Power supply 24 VAC, 230 VAC (dependent on
type)

Terminals 4, 5:

Output used for position indication or
monitoring

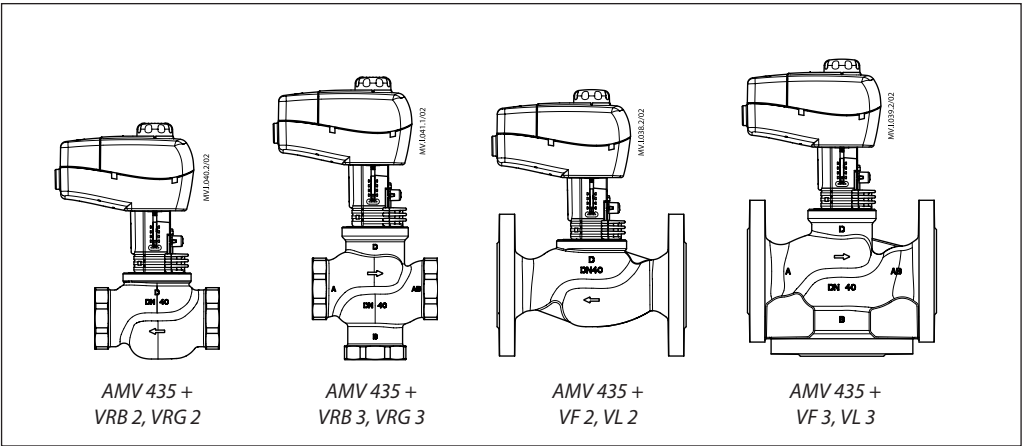
N

Neutral/Common (0 V)

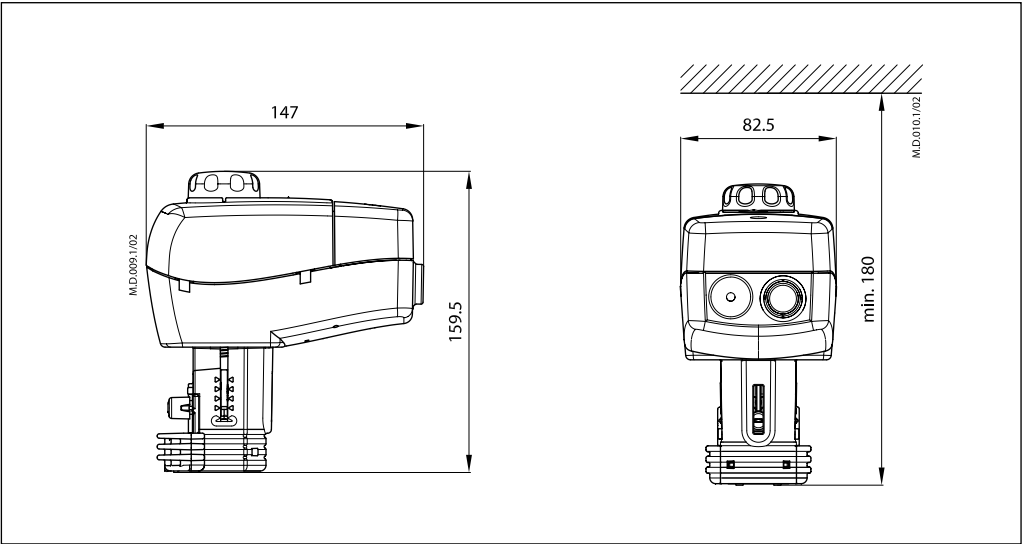
Disposal

The actuator must be dismantled and the
elements sorted into various material groups
before disposal.

Actuator - valve combinations



Dimensions



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