ENGINEERING
TOMORROW

Data sheet

Actuator for two point control AMI 140

Description



AMI 140 is 2 point 3 wires actuator used with AB-QM (DN 10-32) and VZ, VZL valves. The actuator can be used with fan coil units, induction units, small re-heaters, re-coolers and zone applications in which hot/cold water is the controlled medium. The actuator provides with factory default setting (actuators spindle fully stem down):
- normally closed function for AB-QM and
- normally open function for VZ and VZL

Note: it is possible to change setting from normally closed to normally open function (see "Wiring" part jumper setting, page 2.

Main data:
- 2-point 3 wires versions
- Force switch-off at stem down position prevents overload of actuator and valve
- No tools required for mounting
- Maintenance free during lifetime
- Low noise operation
- Supplied with 1.5 m cable.

Ordering

Type	Supply voltage	Speed	Code No.
AMI 140	24 V~	12 s/mm	**082H8048**
	230 V~		**082H8049**

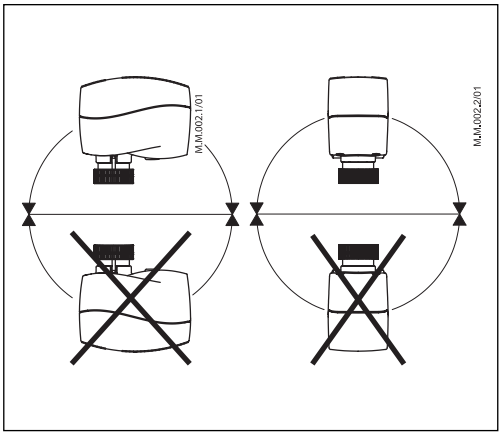
Spare parts

Type	Code No.
Cable (5m) - 24 V	**082H8052**
Cable (5m) - 230 V	**082H8053**

Technical data

Power supply		24 Vac, 230 Vac; +10 to –15%
Power consumption		1 VA - 24 Vac; 8 VA - 230 Vac
Frequency	Hz	50
Close of force	N	200
Stroke	mm	5,5
Speed	s/mm	12
Max. medium temperature inside the pipe	°C	130
Ambient temperature		0 … 55
Storage and transport temperature		–40 … +70
Protection class		II
Ambient humidity		95% r.h., non-condensing
Grade of enclosure		IP 42
Weight	kg	0,3
CE - marking in accordance with standards		Low Voltage Directive 73/23/EEC, EMC-Directive 2006/95/EEC: - EN 60730-1, EN 60730-2-14

Installation



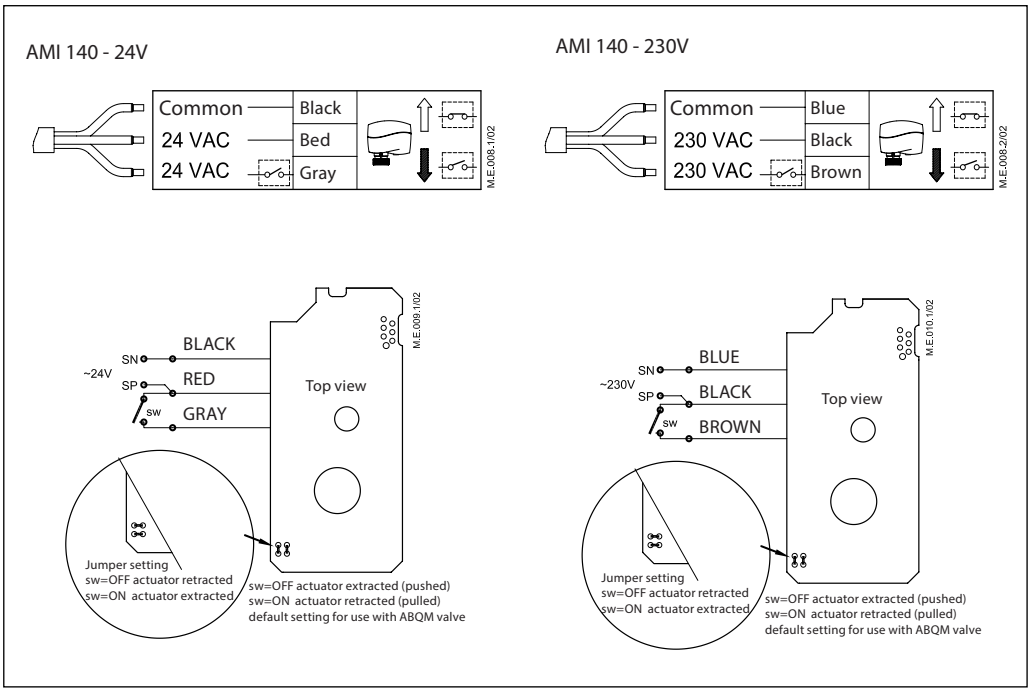
Mechanical
The actuator should be mounted with the valve stem in either horizontal position or pointing upwards.

The actuator is fixed to the valve body by means of a mounting ring which requires no tools for mounting. The ring should be tightened by hand.

Electrical
Important: It is strongly recommended that the mechanical installation is completed before the electrical installation.

Each actuator is supplied with the connecting cable for the controller.

Wiring



Commissioning

The factory setting of the spindle is the fully stem up position because of easier mechanical connection of the actuator on the valve.

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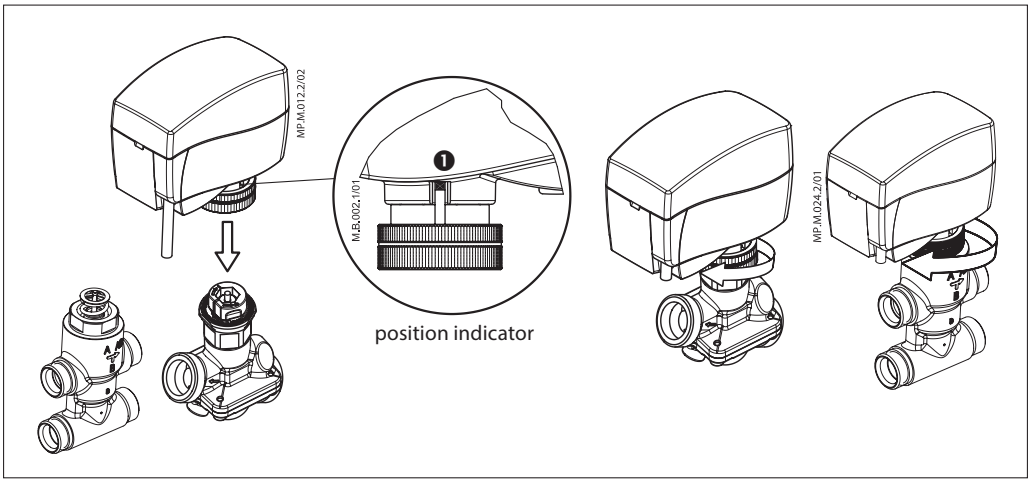
Installation and commissioning procedure
(if required)

Do not touch anything on the PCB! Before removing the cover in need of hand operation with Allen key power supply must be disconnected. Lethal voltage!

a) Check the valve's neck. The actuator should be in steam up position (factory setting) ❶. Ensure that the actuator is mounted securely on the valve body.

b) Energise the actuator according to the wiring diagram - see page 2.

c) The direction of stem movement can be observed on the position indicator ❶.

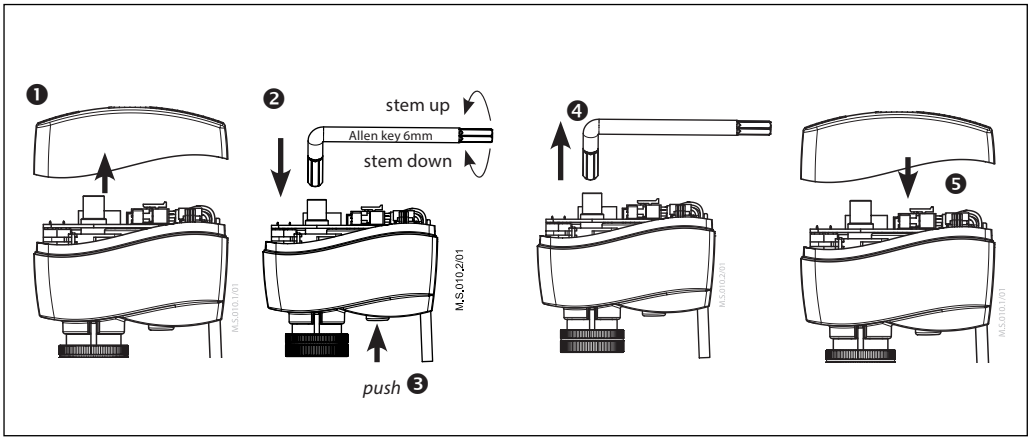


Manual override
(for service purposes only)

Caution:
Do not manually operate the drive under power!

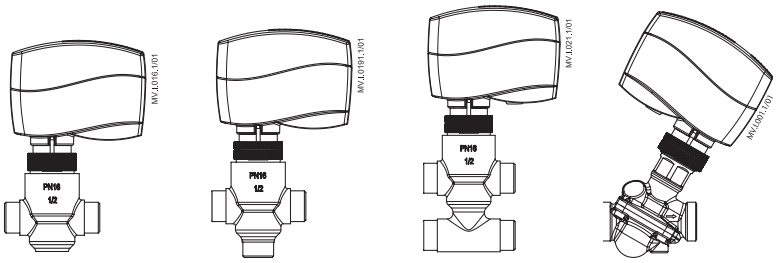
1. Remove the cover.
2. Insert the Allen key 6 into the spindle.
3. Press and hold the button (on the bottom side of the actuator) during manual override.
4. Pull out the tool.
5. Place cover back on the actuator.

Remark:
A "click" sound after energizing the actuator means that the gear wheel has jumped into normal position.



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Actuator - valve combinations



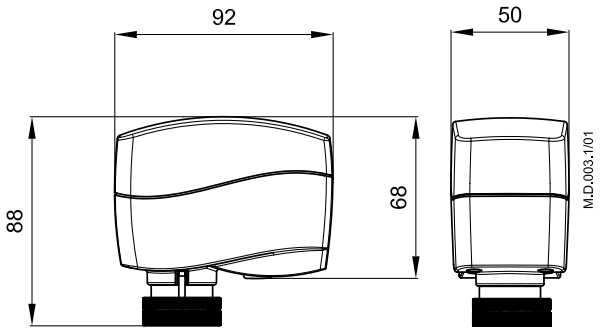
AMI 140 + VZ 2, VZL 2

AMI 140 + VZ 3, VZL 3

AMI 140 + VZ 4, VZL 4

AMI 140 + AB-QM

Dimensions (mm)



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