

# Actuators for three point control AMV 130, AMV 140, AMV 130H, AMV 140H

## Description



AMV 130/140 and AMV 130H/140H actuators are used with VZ, VZL or AHQM (DN 15-32) valves. The actuator can be used with fan coil units, induction units, small reheaters, recoolers and zone applications in which hot/cold water is the controlled medium.

### Main data:

- 3-point 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

Туре	Supply voltage	Speed	Code No.
	V AC	s/mm	
AMV 130	24	24	082H8036
AMV 140		12	082H8038
AMV 130H		24	082H8040
AMV 140H		12	082H8042
AMV 130	230	24	082H8037
AMV 140		12	082H8039
AMV 130H		24	082H8041
AMV 140H		12	082H8043

## Spare parts

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

## **Technical data**

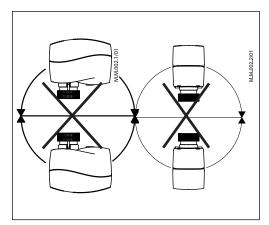
Туре		AMV 130, AMV 130H	AMV 140, AMV 140H
Power supply	V	24 AC, 230 AC; +10 to -15 %	
Power consumption	VA	1-24 V AC; 8-230 V AC	
Frequency	Hz	50/60	
Close of force	N	200	
Stroke	mm	5,5	
Speed	s/mm	24	12
Max. medium temperature inside the pipe		130	
Ambient temperature	°C	°C 055 -4070	
Storage and transport temperature			
Protection Class			
Grade of enclosure		IP 42	
Weight kg		0,3	
• marking in accordance with standards		EMC- Directive 89/336/EEC, 92/31/EEC, 93/68/EEC, EN 61000-6-1 and EN 61000-6-3 Low Voltage Directive 73/23/EEC and 93/68/EEC, EN 60730-2-14	

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#### Installation



#### Mechanical

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

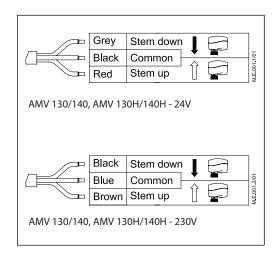
The actuator is fixed to the valve body by means of a mounting ring which requires no tools for mounting. The ring should be tightened by hand.

#### **Flectrica**

<u>Important:</u> 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



## Disposal

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

## 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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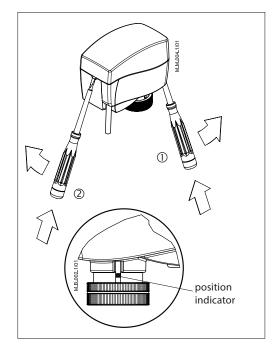
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## Installation and commissioning procedure (if required)



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!

- Check the valve's neck. The actuator should be in steam up position (factory setting).
   Ensure that the actuator is mounted securely on the valve body.
- 2 Energise the actuator according to the wiring diagram see page 2.
- 3 The direction of stem movement can be observed on the position indicator.



## Manual override (for service purposes only)



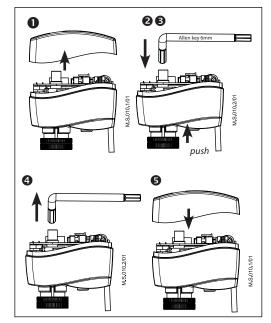
Caution:
Do not manually operate the drive under power!

## **AMV 130, AMV 140**

- 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.

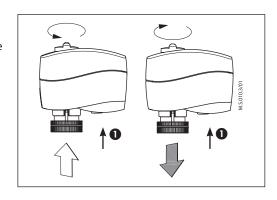


## **AMV 130H, AMV 140H**

1 Press and hold the button (on the bottom side of the actuator) during manual override.

#### Remark:

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

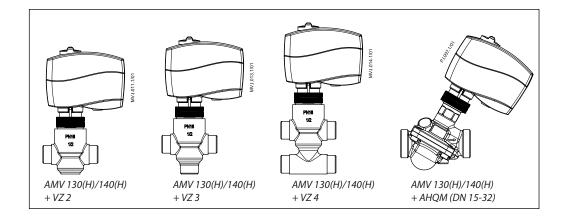


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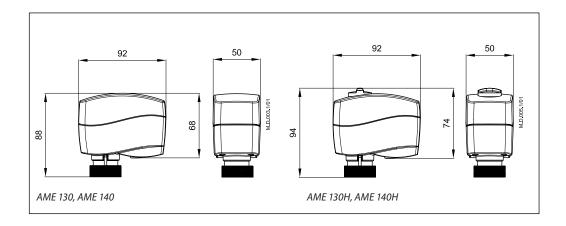


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## Actuator - valve combinations



## **Dimensions**



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