

## SM24A-SR Valve Actuating Drive

### Application

Valve actuating drive with DC 0 to 10 V continuous control for controlling air dampers in VAC systems; for air damper surface areas up to 4 m<sup>2</sup>.

Easily mounted directly on the air damper axle with universal clamping device. The supplied locking element provides protection from distortion.

The valve actuating drive is overload resistant. The valve actuating drive stops automatically when the valve or motor stop is reached.



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Änderungen vorbehalten - Contents subject to change - Sous réserve de modifications - Reservado el derecho a modificación - Wijzigingen voorbehouden - Con riserva di modifichie - Innehåll som skall ändras - Změny vyhrazeny - Zmiany zastrzeżone - Возможны изменения - A változtatások jogát fenntartjuk - 保留未经通知而改动的权力

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## Important Information Regarding Product Safety

### Safety Instructions

This data sheet contains information on installing and commissioning the product "SM24A-SR Valve Actuating Drive". Each person who carries out work on this product must have read and understood this data sheet. If you have any questions that are not resolved by this data sheet, you can obtain further information from the supplier or manufacturer.

If the product is not used in accordance with this data sheet, the protection provided will be impaired.

Applicable regulations must be observed when installing and using the device. Within the EU, these include regulations regarding occupational safety and accident prevention as well as those from the VDE (Association for Electrical, Electronic & Information Technologies). If the device is used in other countries, it is the responsibility of the system installer or operator to comply with local regulations.

Mounting, installation and commissioning work on the devices may only be carried out by qualified technicians. Qualified technicians are persons who are familiar with the described product and who can assess given tasks and recognize possible dangers due to technical training, knowledge and experience as well as knowledge of the appropriate regulations.

### Legend



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#### WARNING

Indicates a hazard of medium risk which can result in death or severe bodily injury if it is not avoided.

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#### CAUTION

Indicates a hazard of low risk which can result in minor or medium bodily injury if it is not avoided.

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#### NOTICE

Indicates a hazard of medium risk which can result in material damage or malfunctions if it is not avoided.

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#### Note

Indicates additional information that can simplify the work with the product for you.

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### Notes on Disposal

For disposal, the product is considered waste from electrical and electronic equipment (electronic waste) and must not be disposed of as household waste. Special treatment for specific components may be legally binding or ecologically sensible. The local and currently applicable legislation must be observed.

**Product Description****SM24A-SR Valve Actuating Drive****Item**

SM 24A-SR      Valve actuating drive, AC/DC 24 V, torque 20 Nm

**Technical Data**

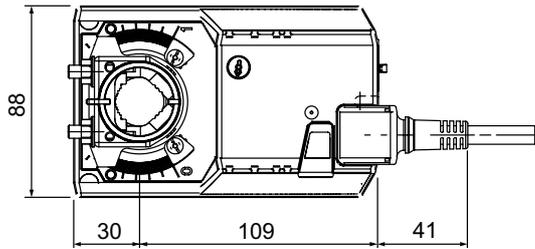
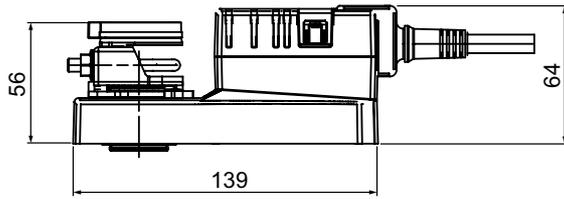
Nominal voltage	AC 24 V $\pm$ 10%; 50/60 Hz; 4.0 VA DC 24 V $\pm$ 10%
Power consumption	In operation: 2.0 W In idle position: 0.4 W
Connection	Built-in cable: 1 m, 4x 0.75 mm <sup>2</sup>
Control	Actuating signal: DC 0 to 10 V; input resistance typically 100 k $\Omega$ Working range: DC 2 to 10 V
Position feedback	DC 2 to 10 V, max. 1 mA
Torque	20 Nm (for air damper surface area up to 4 m <sup>2</sup> )
Rotational direction	Set using rotational direction switch: "0/1"
Rotational angle	Max. 95°, can be limited in both directions using adjustable mechanical stops.
Run time	150 s/95°
Position indication	Mechanical, can be matched to the valve position
Manual adjustment	Disengage drive using pushbutton switch
Degree of protection	IP54 in all installation positions
Protection class	III
Ambient temperature	-30 to +50°C
Ambient humidity	95% r. h., non-condensing
Weight	1.05 kg

**Accessories**

Not included in delivery.

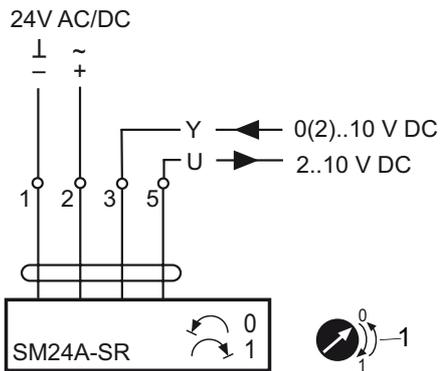
AV8/25	Axle extension
ZG-SMA	Installation kit for attaching linkage
P1000A	Feedback potentiometer 1000 W
S2A	Auxiliary switch, floating, 2x EPU 3 (0.5) A, AC 250 V

Dimensions



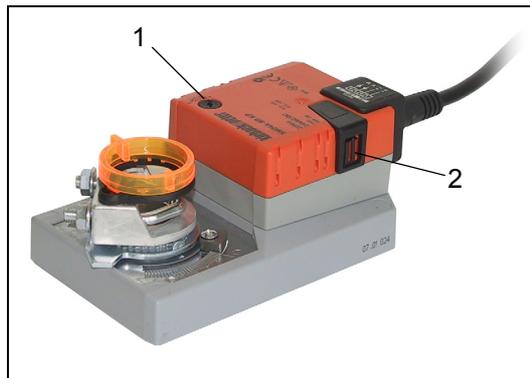
Air damper axle	Length [mm]	  [mm]
Clamping device, top	Min. 48	10 to 20 (26.7)
Clamping device, bottom	Min. 20	10 to 20

Connection

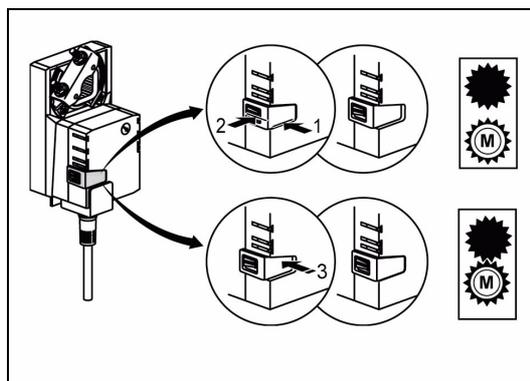


(1) Rotational direction switch

Manual adjustment



- (1) Rotation direction switch, setting direction of rotation
- (2) Pushbutton, disengaging drive for manual adjustment.



- **Locking**  
Press the pushbutton (1) and lock in place (2).
- **Releasing**  
Press the pushbutton that has been locked in place (3).

Mounting

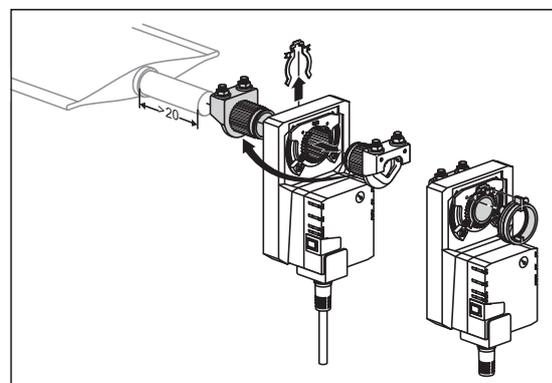
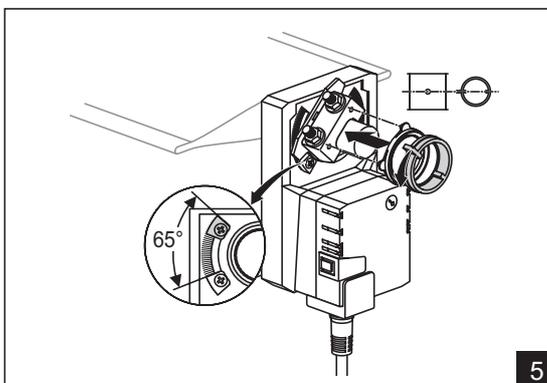
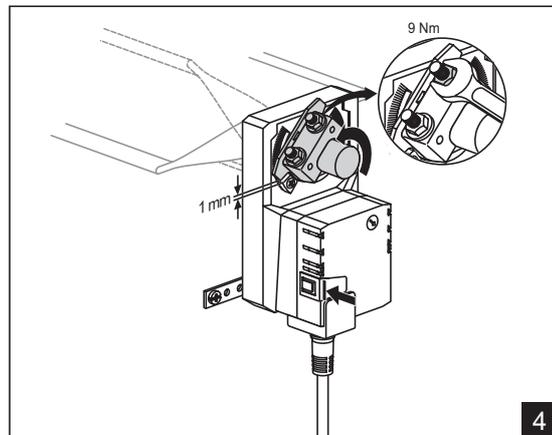
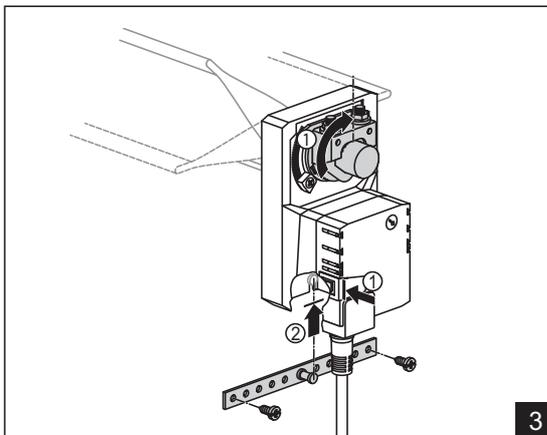
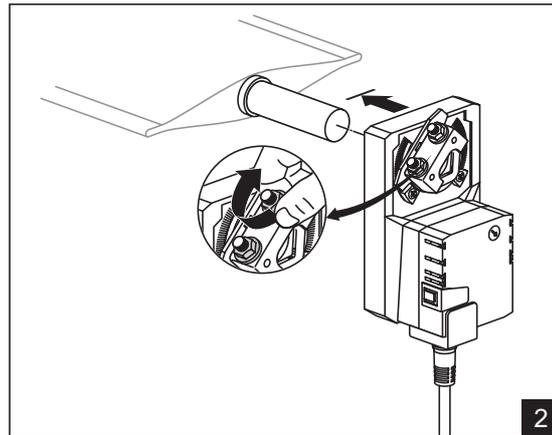
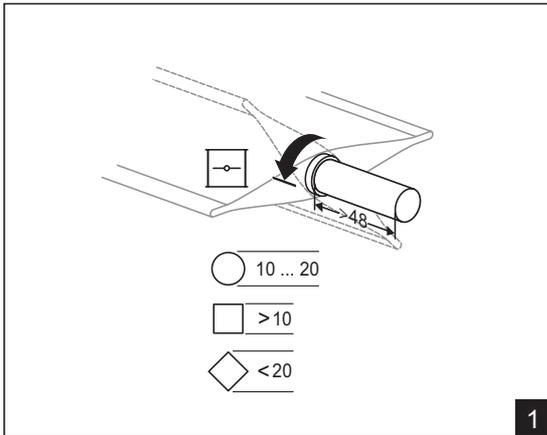


**WARNING**

Contact with live parts of electrical domestic installation can cause death due to electric shock.

Only connect the device and switch on the power supply if you are qualified to do so. Be sure to comply with VDE guidelines and local wiring regulations.

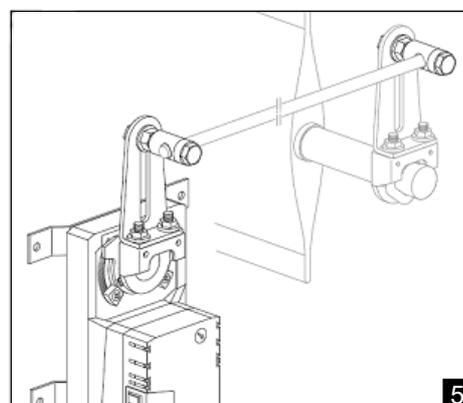
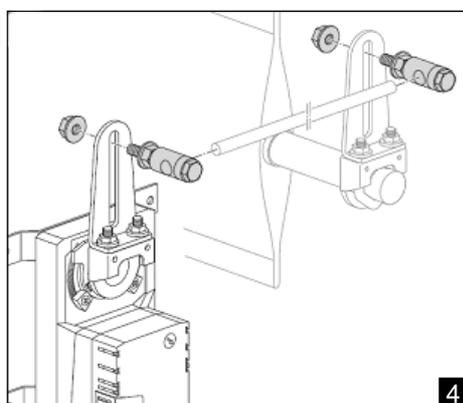
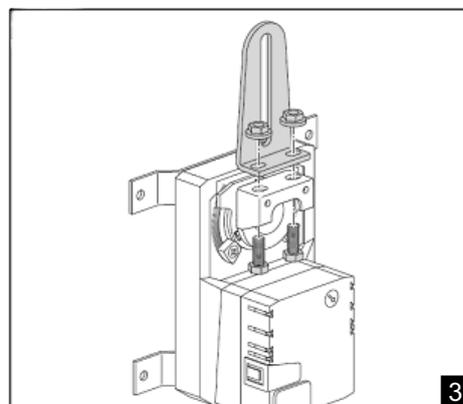
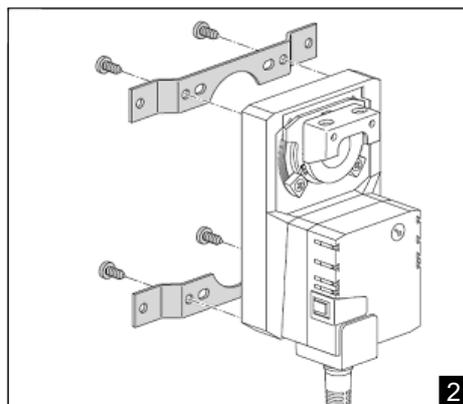
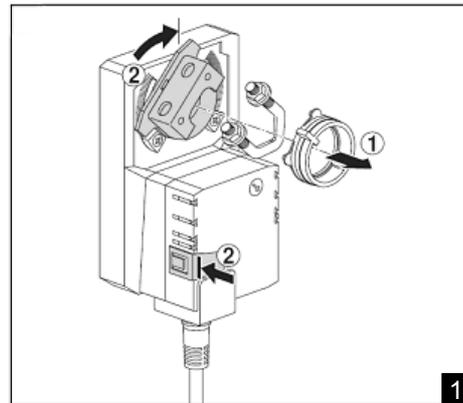
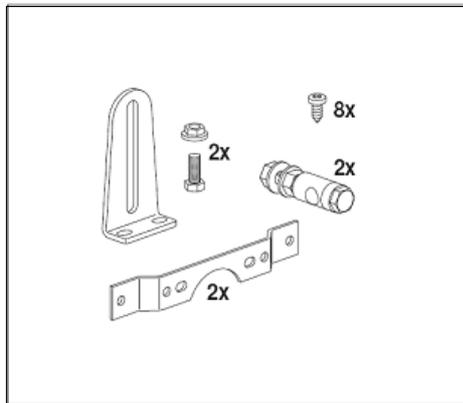
- ▶ The unit is connected according to the terminal connection diagram or the legally binding system circuit diagram.
- ▶ The unit is connected using a safety transformer.
- ▶ Only the manufacturer may open the valve actuating drive.
- ▶ The cable may not be removed from the valve actuating drive.



Mounting accessories

ZG-SMA

For flat and side mounting



**AV8-25**

For air damper axles  $\varnothing$  8 to 25 mm

Length: approx. 250 mm  $\varnothing$  20 mm

