

8, 16, 24 & 32Nm On/Off or Raise/Lower Actuator



Features

- Reversible rotation
- Mechanically set rotation limits

Specification

Power supply:

VA-DA1 xE 24Vac/dc

VA-DA2xE 230Vac

Frequency 50 - 60Hz

Max. power consumption:

VA-DA1xE

Running 3.9W (4W, 32Nm)

Stopped 0.4W (0.5W, 32Nm)

VA-DA2xE

Running 4.8W

Stopped 1.2W

Control signal on/off or floating

Angle of rotation:

0° - 90° mechanical

5 - 85° Limit angle (5° increment)

Protection:

VA-DAGxE IP54

Others IP44 or IP55

Aux. switch rating:

VA-DAGxE 24V @ 3(1.5)A

Others 230V @ 3 (1.5)A

Ambient:

Temperature -20°C to +50°C

RH 5 to 95% RH

Max sound power 45 dB(A)

Protection class II

Conformity CE

Country of origin Germany

Drive times:

8Nm 30 seconds

16Nm 80 seconds

24Nm 125 seconds

32Nm 140 seconds

Product Codes

VA-DAS1E

24Vac/dc 8Nm on/off or Floating actuator

VA-DAS1.SE

24Vac/dc 8Nm on/off or Floating actuator, with end switches

VA-DA1E

24Vac/dc 16Nm on/off or Floating actuator

VA-DA1.SE

24Vac/dc 16Nm on/off or Floating actuator, with end switches

VA-DAL1.SE

24Vac/dc 24Nm on/off or Floating actuator, with end switches

VA-DAG1E

24Vac/dc 32Nm on/off or Floating actuator

VA-DAG1.SE

24Vac/dc 32Nm on/off or Floating actuator, with end switches

VA-DAS2E

230Vac 8Nm on/off or Floating actuator

VA-DAS2.SE

230Vac 8Nm on/off or Floating actuator, with end switches

VA-DAE

230Vac 16Nm on/off or Floating actuator

VA-DA2.SE

230Vac 16Nm on/off or Floating actuator, with end switches

VA-DAL2E

230Vac 24Nm on/off or Floating actuator

VA-DAG2.SE

230Vac 32Nm on/off or Floating actuator, with end switches

Technical Overview

The VA-DAXE range of actuators require 24Vac/dc supply (VA-DA1xE) or 230Vac (VA-DA2xE) and accept either an on/off or floating (raise/lower) control signal input. They are available in 8, 16, 24 or 32Nm torque ratings and can have auxiliary switch options fitted.

The direction of rotation can be reversed.

Installation

1. Ensure that all power is disconnected before carrying out any work on the VA-DAXE.
2. Maximum cable is 2.5mm², care must be taken not to over tighten terminals.
3. Attach the actuator to the damper spindle, finger tighten the nuts on the V-clamp.
4. Fix the anti-rotation strap to the back of the actuator (bend if required).
5. Move the damper to the closed position.
6. Using the manual override push button, turn the clamp until the actuator is in the correct position.
7. Tighten the V-clamp.
8. If the damper has no fixed stops of its own, the angle of rotation / working range can be adjusted mechanically by re-positioning the adapter in 5° steps. The adapter can be released by simply pressing the clip at the base of the actuator (see page 3).
9. Undo the screw on the cover of the actuator and remove the cover.
10. Fit the M20 converter into the back of the actuator.
11. Terminate the cores at the terminal block (see page 3), leaving some slack inside the unit.
12. Ensure that the voltage is within the specified tolerances.
13. Replace the lid after the electrical connections have been made.

Auxiliary switches

To adjust the auxiliary switches, (in this example to 30° and 70°), follow the procedure below. (NB The switches, where fitted, are factory aligned to 10° for A and 80° for B.)

1. To set switch A (see Fig. 2) press the manual over-ride switch and rotate the adaptor (Fig. 1) to the 30° position.
2. Slightly loosen the cross head screw in cam wheel A so that the wheel can be moved by hand.
3. Rotate cam wheel A until the micro switch clicks.
4. Re-tighten the cross head screw in cam wheel A.
5. To set switch B (see Fig. 2) press the manual over-ride switch and rotate the adaptor (Fig. 1) to the 70° position.
6. Slightly loosen the cross head screw in cam wheel B so that the wheel can be moved by hand.
7. Rotate cam wheel B until the micro switch clicks.
8. Re-tighten the cross head screw in cam wheel B.

Fig 1.

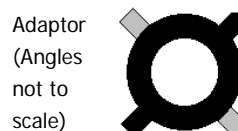
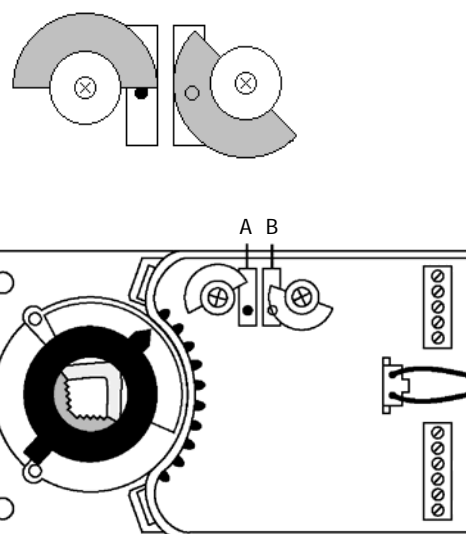
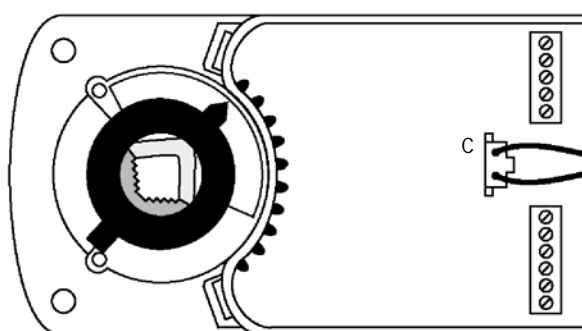
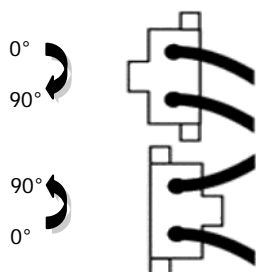


Fig 2.



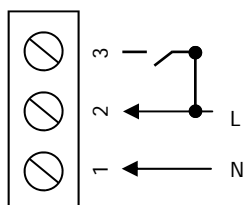
Changing Direction of Rotation

The direction of rotation can be changed by reversing plug C.

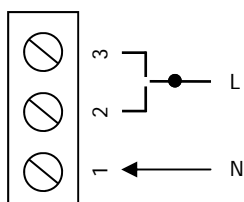


Connections

On/off control:

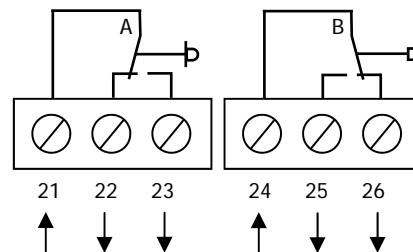


Floating control (raiser/lower):



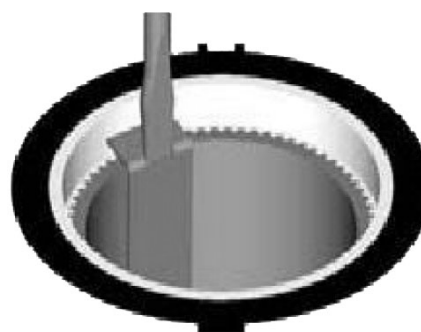
Connections (continued)

Auxiliary switches:



Actuator at 0° position

Angle of rotation



Angle of rotation limiting per 5° and releasing by the adapter on the bottom of the damper motor body.

Dimensions

