



CAV CONTROLLERS

Actuator for switching
between setpoint values
with EN (with rotary knob)



ACTUATOR FOR SWITCHING BETWEEN SETPOINT VALUES

EN (Generation 2) with
actuator



ACTUATOR FOR SWITCHING BETWEEN SETPOINT VALUES

Actuator for switching
between setpoint values with
Type RN



ACTUATOR WITH MECHANICAL STOPS

Actuator with mechanical
stops for Type VFC or VFR



ACTUATOR WITH POTENTIOMETERS

Actuator with potentiometers
for Type VFC or VFR

RETROFIT KITS

FOR MOTORISED SETPOINT VALUE ADJUSTMENT ON CAV CONTROLLERS AND FLOW ADJUSTMENT DAMPERS, E.G. SWITCHING BETWEEN QVMIN AND QVMAX

Actuators and installation accessories for mechanical self-powered CAV controllers Type EN, RN, or VFC, and flow adjustment dampers Type VFR

- Parts kits for easy retrofit
- Potentiometer or mechanical stops
- Supply voltage 24 V AC/DC or 230 V AC
- Control input signal: 1-wire control or 2-wire control (3-point) for min-max switching
- Control input signal: Signal voltage 0 – 10 V DC or 2 – 10 V DC for modulating actuators
- Positive lock connection with CAV controller or flow adjustment damper

Optional accessories for type RN

- Auxiliary switch with adjustable switching points, for example for capturing the end positions

Application

Parts kits for the retrofit of mechanical self-powered volume flow controllers or flow adjustment dampers with an actuator for the setpoint value adjustment of CAV controllers.

Types RN, EN, VFC

- Min/max switching of the volume flow rate setpoint values
- Variable adjustment of the volume flow rate setpoint

Flow adjustment damper type VFR

- Min/Max change of the damper blade position
- Variable adjustment of the damper blade position

Parts and characteristics

Setpoint value adjustment, supply voltage and special functions of the drive variant and its adjustment range to the various basic devices (see variant description).

- Adjustment of the setpoint values to mechanical stops
- Adjustment of the setpoint values to potentiometers
- Supply voltage 24 V AC/DC or 230 V AC
- Min-max setpoint value switching with switch contact provided by others
- Variable setpoint value adjustment with signal voltage 0 – 10 V DC or 2 – 10 V DC
- Push button to trigger a test run (only variants E01, E02, E03)
- Optional auxiliary switch, e.g. for end position sensing (only variant B52, B62, B72)

Variants

B50

- Type of actuator LM24A-F
- 24 V AC/DC supply
- Min-max switching, mechanical adjustment
- For types RN and EN (setpoint value with angle scale)

B52

- As before but with auxiliary switch
- For types RN and EN (setpoint value with angle scale)

B60

- Type of actuator LM230A-F
- 230 V AC supply
- Min-max switching, mechanical adjustment
- For types RN and EN (setpoint value with angle scale)

B62

- Like the B60, but with auxiliary switch S2A
- For types RN and EN (setpoint value with angle scale)

B70

- Type of actuator LM24A-SR-F
- 24 V AC/DC supply
- Variable control in the range min-max with 2 – 10 V signal control voltage
- For types RN and EN (setpoint value with angle scale)

B72

- Like the B70, but with auxiliary switch S2A
- For types RN and EN (setpoint value with angle scale)

S2

- Retrofit of attachable auxiliary switch type S2A
- 2 adjustable switching points
- Only for variants B50, B60, B70
- For types RN and EN (setpoint value with angle scale)

E01

- Type of actuator 224-024-03-001
- 24 V AC/DC supply
- Min-max switching, adjustment with potentiometers
- For types EN (setpoint value adjustment with blue hand wheel), VFC, VFR

E02

- Type of actuator 224-230-03-002,
- 230 V AC supply
- Min-max setpoint value switching, adjustment with potentiometers
- For types EN (setpoint value adjustment with blue hand wheel), VFC, VFR

E03

- Type of actuator 224-024-03-003

- 24 V AC/DC supply
- Variable setpoint value in the range min-max, adjustment with potentiometers
- Signal voltage range 0 – 10 V DC
- For types EN (setpoint value adjustment with blue hand wheel), VFC, VFR

Description



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Commissioning

- Assembly actuator
- Install wiring
- Setpoint value adjustment via mechanical stops or potentiometers
- Perform test run

TECHNICAL INFORMATION

Specification text

Parts and characteristics

Setpoint value adjustment, supply voltage and special functions of the drive variant and its adjustment range to the various basic devices (see variant description).

- Adjustment of the setpoint values to mechanical stops
- Adjustment of the setpoint values to potentiometers
- Supply voltage 24 V AC/DC or 230 V AC
- Min-max setpoint value switching with switch contact provided by others
- Variable setpoint value adjustment with signal voltage 0 – 10 V DC or 2 – 10 V DC
- Push button to trigger a test run (only variants E01, E02, E03)
- Optional auxiliary switch, e.g. for end position sensing (only variant B52, B62, B72)

NR-VAV

1

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RN-B50

2

1 Type

NR-VAV Retrofit kit

2 Variant

Retrofit actuators for RN type (incl. installation material RN)

RN-B50 Retrofit B50: 3-point (min/max) actuator 24 V

RN-B60 Retrofit B60: 3-point (min/max) actuator 230 V

RN-B70 Retrofit B70: modulating actuator 24V

RN-S2 Retrofit S2: auxiliary switch for B52, B62, B72

Retrofit actuators for EN type (*2)

(incl. installation material EN (*2))

EN-B50 Retrofit B50: 3-point (min/max) actuator 24 V

EN-B60 Retrofit B60: 3-point (min/max) actuator 230 V

EN-B70 Retrofit B70: modulating actuator 24V

EN-S2 Retrofit S2: auxiliary switch for B52, B62, B72

Retrofit actuators for EN type (*3) (incl. EN installation material (*3))

EN-E01 Retrofit E01: 3-point (min/max) actuator 24V

EN-E02 Retrofit E02: 3-point (min/max) actuator 230V

EN-E03 Retrofit E03: modulating actuator 24V

Retrofit actuators for VFC type (incl. installation material for M0*)

VFC-E01 Retrofit E01: 3-point (min/max) actuator 24V

VFC-E02 Retrofit E02: 3-point (min/max)

Actuator 230 V

VFC-E03 Retrofit E03: modulating actuator 24V

VFC-M01 Retrofit M01: 3-point (min/max) actuator 24V

VFC-M02 Retrofit M02: 3-point (min/max)

Actuator 230 V

Retrofit actuators for VFR type (incl. installation material for M0*)

VFR-E01 Retrofit E01: 3-point (min/max) actuator 24V

VFR-E02 Retrofit E02: 3-point (min/max)

Actuator 230 V

VFR-E03 Retrofit E03: modulating actuator 24V

VFR-M01 Retrofit M01: 3-point (min/max) actuator 24V

VFR-M02 Retrofit M02: 3-point (min/max)

Actuator 230 V

Note on EN control variants:

(*2) Type EN-Generation 2: setpoint value adjustment with angle scale.

(*3) Type EN-Generation 3: setpoint value adjustment with blue hand wheel.