

Type Retrofit kits



FOR VARIABLE VOLUME FLOWS OR $V_{\text{MIN}}/V_{\text{MAX}}$ SWITCHING IN ROOM AIR CONDITIONING SYSTEMS

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: Signal voltage 0 – 10 V for modulating actuators
- Control input signal: 1-wire control or 2-wire control (3-point) for min/max switching
- Positive lock connection with CAV controller or flow adjustment damper

Optional accessories for Types RN and EN

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



APPLICATION

Application

Parts kits for the retrofit of mechanical self-powered volume flow controllers or flow adjustment dampers with actuators.



CAV controllers Type EN or RN, as well as for VFC

- Min/Max switching of volume flow setpoint values
- Variable adjustment of volume flow rate setpoints



Flow adjustment dampers Type VFR

- Min/Max change of the damper blade position



DESCRIPTION

Parts and characteristics

- Damper blade can take various positions
- Mechanical stops or potentiometers (only for Types VFC and VFR) to set the volume flow rates
- Supply voltage 24 V AC/DC or 230 V AC
- Switching between setpoint values or signal voltage range 0 – 10 V DC

TECHNICAL INFORMATION

Order code, Produktbeziehungen

ORDER CODE

NR-VAV-E01



1 Type

NR-VAV Retrofit kit

2 Variant

For Types EN and RN

- B50** Retrofit actuator for min/max switching, identical to attachment B50
- B60** Retrofit actuator for min/max switching, identical to attachment B60
- B70** Retrofit actuator for variable adjustment, identical to attachment B70
- S2** Retrofit auxiliary switch, identical to attachment B*2
- ENMAT** Retrofit installation accessories for EN
- RNMAT** Retrofit installation accessories for RN

For Types VFC and VFR

- E01** Retrofit actuator for min/max switching, identical to attachment E01
- E02** Retrofit actuator for min/max switching, identical to attachment E02
- E03** Retrofit actuator for variable adjustment, identical to attachment E03
- M01** Retrofit actuator for min/max switching, identical to attachment M01
- M02** Retrofit actuator for min/max switching, identical to attachment M02

Variants

VARIANTS

Actuators for volume flow controllers Type RN or EN

Part number	Construction	Supply voltage	Type	Identical to attachment
NR-VAV-B50	Min/Max switching, mechanical stops	24 V AC/DC	LM24A-F	B50
NR-VAV-B60	Min/Max switching, mechanical stops	230 V AC	LM230A-F	B60
NR-VAV-B70	Variable adjustment, mechanical stops	24 V AC/DC	LM24A-SR-F	B70
NR-VAV-S2	Auxiliary switch		S2A	Included with B*2
NR-VAV-RNMAT	Installation accessories for RN			
NR-VAV-ENMAT	Installation accessories for EN			

Installation accessories for CAV controllers Type EN or RN are to be ordered separately

Actuators for volume flow controllers Type VFC and for flow adjustment dampers Type VFR

Part number	Construction	Supply voltage	Type	Identical to attachment
NR-VAV-E01	Min/Max switching, potentiometer	24 V AC/DC	224-024-02-001	E01
NR-VAV-E02	Min/Max switching, potentiometer	230 V AC	224-230-02-002	E02
NR-VAV-E03	Variable adjustment, potentiometer	24 V AC/DC	224C-024-02-003	E03
NR-VAV-M01	Min/Max switching, mechanical stops	24 V AC/DC	CM24-F	M01
NR-VAV-M02	Min/Max switching, mechanical stops	230 V AC	CM230-F	M02

Actuator for switching between setpoint values (B*05, B6*, B7*) for Type RN or EN







Auxiliary switch (B*2) S2A



Actuator with potentiometers (E0*) for Types VFC and VFR





Actuator with mechanical stops (M0*) for Type VFC or VFR





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