

Torque Fail-Safe

Service life



VAV-Universal, ready-to-connect rotary actuator fail-safe for VAV and CAV units in technical building installations

- Air damper size up to approx. 4 m²
- Torque motor 90 in-lb [10 Nm]
- Nominal voltage AC/DC 24 V
- Control Communicative PP



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Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	5 W
	Dower consumption in rest position	2.5.W

Power consumption in rest position	2.5 W
Transformer sizing	8 VA
Connection supply / control	cable [0.5 m] with VST connector

Parallel operation No

Functional data	Torque motor	90 in-lb [10 Nm]
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Direction of motion variable	At VRUBAC with Belimo Assistant App
Manual override	by means of hand crank and locking switch
Angle of rotation	Max. 95°
Angle of rotation note	adjustable with mechanical stop
Running Time (Motor)	120 s / 90°
Running time fail-safe	<20 s @ -4122°F [-2050°C], <60 s @ -22°F

10 Nm

[-30°C]

Min. 60'000 fail-safe positions

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Adaptation Setting Range Variable	Triggering at VRUBAC, by pressing the
	Adaptation button or with Belimo Assistant App
Noice level motor	40 9D(V)

Noise level, motor 40 dB(A) Mechanical interface Universal shaft clamp 10...25.4 mm Position indication Mechanical

Safety data Protection class IEC/EN III, Safety Extra-Low Voltage (SELV)

Degree of protection IEC/EN	IP54
EMC	CE according to 2014/30/EU

Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1.AA Rated impulse voltage supply / control 0.8 kV 3

Pollution degree -22...122°F [-30...50°C] Ambient temperature -40...176°F [-40...80°C] Storage temperature

Ambient humidity Max. 95% RH, non-condensing Servicing maintenance-free

Weight Weight 1.9 kg



Safety notes

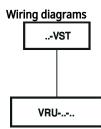


- The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.
- Outdoor application: only possible in case that no (sea) water, snow, ice, insolation or
 aggressive gases interfere directly with the actuator and that is ensured that the ambient
 conditions remain at any time within the thresholds according to the data sheet.
- Only authorized specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- · Cables must not be removed from the device.
- Self adaptation is necessary when the system is commissioned and after each adjustment of the angle of rotation (press the adaptation push-button once).
- To calculate the torque required, the specifications supplied by the damper manufacturers
 concerning the cross-section, the design, the installation situation and the ventilation
 conditions must be observed.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Accessories

Electrical accessories	Description	Туре
	VAV-Universal - Volumetric flow / branch pressure controller	VRU-D3-BAC
	VAV-Universal - Volumetric flow / branch pressure controller	VRU-M1-BAC
	VAV-Universal - room pressure controller	VRU-M1R-BAC

Electrical installation



Plug-in connection with preassembled cable-plug unit

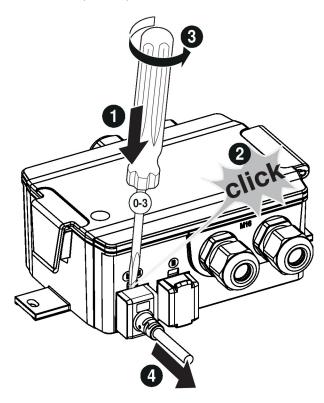


Installation notes

Installation situation

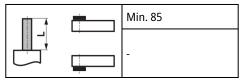
Remove actuator cable:

The connecting cable of the VST damper actuator can be removed from the VRU controller using a screwdriver (size 0...3) as shown in the illustration.



Dimensions

Stem length



Clamping range

