



Ready-to-connect damper actuator for VAV and CAV units in ventilation and air conditioning systems in buildings

- Air control damper size up to approx. 1 m²
- · Torque 5 Nm
- Compatible with Belimo VAV controller VR..



Technical data			
Electrical data	Nominal voltage		AC 24 V, 50/60 Hz / DC 24 V (from VR controller)
	Power consumption	In operation At rest For wire sizing	2 W @ nominal torque 1.2 W 3.5 VA
	Connection	Tot Wile Sizing	0.5 m cable with 3-pin plug (compatible with VR controller)
Functional data Torque (nominal torque) Control Uni-rotation		que)	Min. 5 Nm @ nominal voltage
			6 V ±4 V (from VR., controller)
			±5%
	Direction of rotation Direction of motion at Y = 2 V Manual override Angle of rotation		Can be selected with 0 / 1 switch
			In switch position 0 🗸 or 1 🔿
			Disengaging the gearing latch by means of a pushbutton, self-resetting
			Max. 95°
	Dunning time		150 s
	Running time Sound power level Position indication Adaptation Display		Max. 35 dB (A)
			Mechanical, plug-on
			Adaptation of the control range
			to the damper angle of rotation
			LED display for 24 V supply and states
Safety			III Safety extra-low voltage
			IP54 in all mounting positions
			CE according to 89/336/EEC
			Type 1 (in acc. with EN 60730-1)
	Rated impulse voltage		0.8 kV (in acc. with EN 60730-1)
	Control pollution degree Ambient temperature range Non-operating temperature range Ambient humidity range		3 (in acc. with EN 60730-1)
			−30 +50°C
			–40 +80°C
			95% RH, non-condensating (EN 60730-1)
	Maintenance		Maintenance-free
Dimensions / weight	Dimensions / weight Dimensions		See "Dimensions" on page 2
Weight		Approx. 440 g	

Safety notes



- The damper actuator is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- It may only be installed by suitably trained personnel.
 All applicable legal or institutional installation regulations must be complied with.
- 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.
- · The cable is not allowed to be removed from the unit.
- When the required torque is calculated, the cross section, design and installation site as well as the air flow conditions must be observed.
- The device contains electrical and electronic components and is not allowed to be disposed
 of as household refuse. The local and currently valid regulations and requirements must be
 observed.



Product features

Mode of operation The actuator is controlled with a Belimo VAV controller VR.. and travels to the position

defined by the control signal.

Simple direct mounting Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an

anti-rotation strap to prevent the actuator from rotating.

Manual override Manual override with self-resetting pushbutton possible (the gear is disengaged for as long as

the button is pressed).

Adjustable angle of rotation Adjustable angle of rotation with mechanical end stops.

Adaptation Angle-of-rotation sensing and adaptation of the control range. Triggered by pressing a button on

the actuator, with LEDs for status display.

High functional reliability The actuator is overload-proof, requires no limit switches and automatically stops when the end

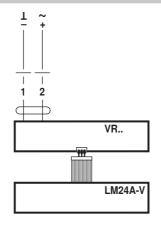
stop is reached.

Accessories			
		Description	Data sheet
Electrical accessories	Auxiliary switch SA	T2 - SA	
		Feedback potentiometer PA	T2 - PA

Mechanical accessories Spindle extension AV6-20 T2 - Z-LM..A..

Electrical installation

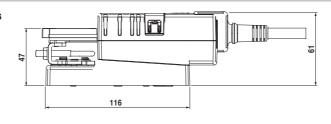
Wiring diagram

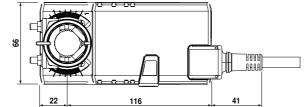


The ready-to-connect operating unit is connected to the VR.. controller with the 3-pin plug.

Dimensions [mm]

Dimensional diagrams





Damper spindle	Length	010
	Min. 37	620