

Compact actuator with damper blade, for the control or isolation of volumetric airflows in air-conditioning plants, particularly where space is limited

- Pipe diameter DN 125
- Torque motor 2 Nm
- Nominal voltage AC 100...240 V
- Control Open/close, 3-point
- Fit into round air ducts in accordance with DIN EN 1506

Technical data





Electrical data	Nominal voltage	AC 100240 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 85265 V
	Power consumption in operation	1.5 W
	Power consumption in rest position	1 W
	Power consumption for wire sizing	3 VA
	Connection supply / control	Cable 1 m, 3 x 0.75 mm ²
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	2 Nm
	Pipe diameter	DN 125
	Manual override	with magnet
	Angle of rotation	70°
	Running time motor	58 s / 70°
	Sound power level, motor	35 dB(A)
	Airtightness	Class 2 (DIN EN 1751)
	Resistance coefficient ζ	0.3 (in open position)
	Static differential pressure	Max. 1000 Pa via the damper (4" w.g)
Safety data	Flame class	Damper blade UL 94 HB Actuator UL 94 V-0
	Fire behaviour group	Damper blade RF3 (CH)
		Actuator RF2 (CH)
	Fire load	4.6 MJ
	Protection class IEC/EN	II, reinforced insulation
	Protection class UL	II, reinforced insulation
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	EMC	CE according to 2014/30/EU
	Low voltage directive	CE according to 2014/35/EU
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	UL Approval	cURus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1
	Mode of operation	Туре 1
	Rated impulse voltage supply / control	2.5 kV
	Pollution degree	3
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-3050°C [-22122°F]
	Storage temperature	-4080°C [-40176°F]
	Servicing	maintenance-free



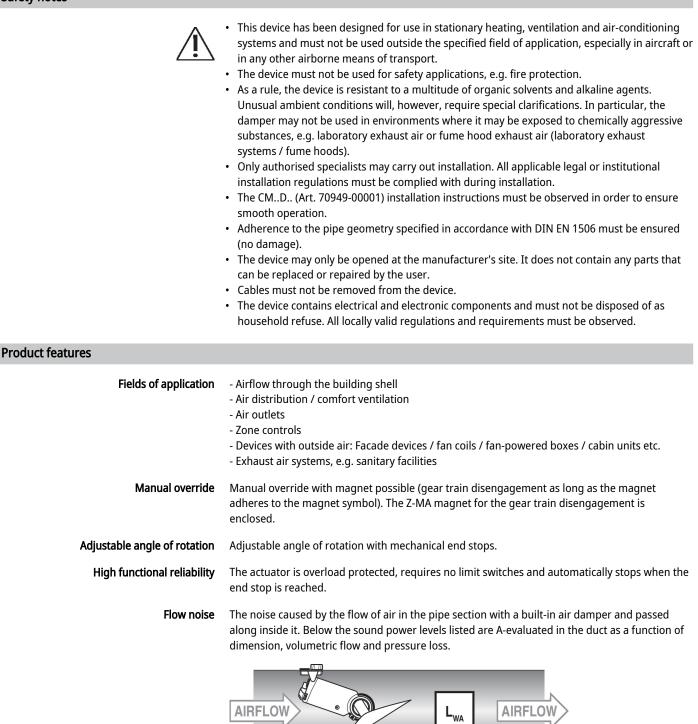
Weight \

Weight

Packaging quantity

0.26 kg Multipack 20 pcs.

Safety notes

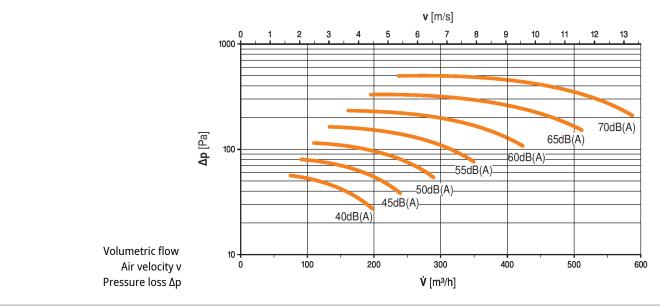




Technical data sheet

Sound power level LWA

Sound power level with A-evaluation, including correction of the outlet reflection LWA



Accessories

Mechanical accessories

Description	Туре
Gear train disengagement magnet, Multipack 20 pcs.	Z-MA

Electrical installation

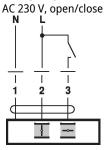


Caution: Power supply voltage!

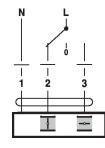


Parallel connection of other actuators possible. Observe the performance data.

Wiring diagrams



Cable colours: 1 = blue 2 = brown 3 = white





Pipelines

Belimo recommends the use of round folded spiral-seam pipelines (spiro pipes) with 0.5 mm metal gauge (in accordance with DIN EN 1506) and with the fold on the outside of the pipe. Folded spiral-seam pipes are usually rounder than longitudinally-welded pipes. Leakages can be reduced as a result. The interior side of the folded spiral-seam pipes is smooth. The welding seam can inhibit the function of the damper blade with longitudinally welded pipes. If longitudinally welded pipes nevertheless need to be used, Belimo cannot guarantee the proper functioning of the actuator.

• No protruding longitudinal fold facing inward permitted

• Use only galvanised sheet steel or chrome steel. Installation in plastic pipelines is not recommended.

• Do not place the fastening holes of the actuator across from the welding seam. The damper blade could become damaged after a short time. The fastening holes should be drilled approximately 40 mm away from the welding seam. This will reduce the damper noise and damage to the damper blade to a minimum.

