

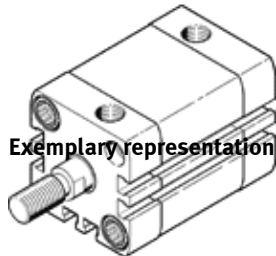
compact cylinder ADN-50- -

Part number: 536309

★ Core product range

FESTO

In accordance with ISO 21287, for position sensing, with male or female thread on the piston rod.



Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 ... 400 mm
Piston diameter	50 mm
Cushioning	P: Flexible cushioning rings/plates at both ends PPS: Self-adjusting pneumatic end-position cushioning
Assembly position	Any
Conforms to standard	ISO 21287
Design structure	Piston Piston rod Profile barrel
Position detection	For proximity sensor
Variants	EX protection approval (ATEX) improved running performance Extended male piston rod thread Piston rod with special thread Extended piston rod With protection against rotation Excellent corrosion protection Dust protection Constant slow movement Low-friction Through piston rod Through, hollow piston rod Heat resistant seals, max. 120°C laser etched rating plate Temperature range -40 - 80 °C Single-ended piston rod Recommended for production facilities for the manufacture of lithium-ion batteries
Operating pressure MPa	0.06 ... 1 MPa
Operating pressure	0.6 ... 10 bar
Mode of operation	double-acting
CE mark (see declaration of conformity)	to EU directive explosion protection (ATEX)
UKCA marking (see declaration of conformity)	To UK EX instructions
ATEX category Gas	II 2G
ATEX category Dust	II 2D
Explosion ignition protection type Gas	Ex h IIC T4 Gb
Explosion ignition protection type Dust	Ex h IIIC T120°C Db
Explosion-proof ambient temperature	-20°C ≤ Ta ≤ +60°C
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)

Feature	Value
Corrosion resistance classification CRC	0 - No corrosion stress 2 - Moderate corrosion stress 3 - High corrosion stress
PWIS conformity	VDMA24364-B1/B2-L VDMA24364 zone III
RSBP classification to CD-0033	F1a
Ambient temperature	-40 ... 120 °C
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	1,057 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	1,057 ... 1,178 N
Moving mass with 0 mm stroke	140 g
Additional mass factor per 10 mm of stroke	16 g
Basic weight for 0 mm stroke	540 g
Additional weight per 10 mm stroke	51 g
Mounting type	with through hole with internal (female) thread with accessories Optional
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Material of flange screw	Steel
Material cover	Anodised wrought aluminium alloy
Material piston rod	High alloy steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy