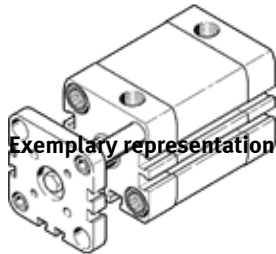


compact cylinder ADNGF-50- -

Part number: 537129

FESTO

In accordance with ISO 21287, with plain-bearing guide, piston rod secured against rotation by means of guide rods and yoke plate.



Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	5 ... 300 mm
Piston diameter	50 mm
Based on the standard	ISO 21287
Cushioning	P: Flexible cushioning rings/plates at both ends PPS: Self-adjusting pneumatic end-position cushioning
Assembly position	Any
Design structure	Piston Piston rod Profile barrel
Position detection	For proximity sensor
Variants	EX protection approval (ATEX) Through piston rod Heat resistant seals, max. 120°C laser etched rating plate
Protection against torque/guide	Guide rod with yoke
Operating pressure MPa	0.1 ... 1 MPa
Operating pressure	1 ... 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)
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
Ambient temperature	-20 ... 120 °C
Impact energy in end positions	1 J
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	1,178 N
Moving mass with 0 mm stroke	287 g
Additional mass factor per 10 mm of stroke	29 g
Basic weight for 0 mm stroke	687 g
Additional weight per 10 mm stroke	64 g
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Material of flange screw	Steel

Feature	Value
Material cover	Anodised wrought aluminium alloy
Material seals	TPE-U(PUR)
Material end plate	Anodised wrought aluminium alloy
Material piston rod	High alloy steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy