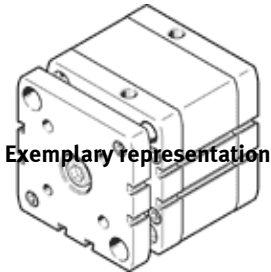


Compact cylinder ADNGF-80- -

Part number: 537131

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	80 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
Working pressure	1 ... 10 bar
Mode of operation	double-acting
CE symbol (see declaration of conformity)	according to EU-Ex protection guideline (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	1.8 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	2,827 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	3,016 N
Moving mass with 0 mm stroke	778 g
Additional mass factor per 10 mm of stroke	43 g
Basic weight for 0 mm stroke	1,468 g
Additional weight per 10 mm stroke	97 g
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Material of flange screw	Steel

Feature	Value
Material cover	Coated die-cast aluminium
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