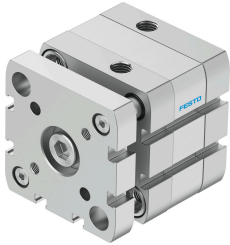


# Compact air cylinder ADNGF-50- -

Part number: 537129

FESTO



## Data sheet

Feature	Value
Stroke	5 mm...300 mm
Piston diameter	50 mm
Based on norm	ISO 21287
Cushioning	Elastic cushioning rings/pads at both ends Self-adjusting pneumatic end-position cushioning
Mounting position	Any
Structural design	Piston Piston rod Profile barrel
Position sensing	For proximity sensor
Variants	EX protection approval (ATEX) Through piston rod Heat-resistant seals max. 120°C Laser etched rating plate
Protection against torsion/guide	Guide rod with yoke
Operating pressure	0.1 MPa...1 MPa 1 bar...10 bar
Mode of operation	Double-acting
CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
UKCA marking (see declaration of conformity)	acc. to UK EX instructions
Explosion prevention and protection	Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)
ATEX category gas	II 2G
ATEX category for dust	II 2D
Type of ignition protection for gas	Ex h IIC T4 Gb
Type of (ignition) protection for dust	Ex h IIIC T120°C Db
Explosive ambient temperature	-20°C ≤ Ta ≤ +60°C
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Ambient temperature	-20 °C...120 °C

<b>Feature</b>	<b>Value</b>
Impact energy in the end positions	1 J
Theoretical force at 6 bar, retracting	1057 N
Theoretical force at 6 bar, advancing	1178 N
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Flange screws material	Steel
Cover material	Wrought aluminum alloy, anodized
Seals material	TPE-U(PUR)
End plate material	Wrought aluminum alloy, anodized
Piston rod material	High-alloy steel
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized