

Compact air cylinder ADN-20- -

Part number: 536233

FESTO



Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 mm ... 300 mm
Piston diameter	20 mm
Type code	ADN
Based on norm	ISO 21287
Cushioning	Elastic cushioning rings/pads at both ends Self-adjusting pneumatic end-position cushioning
Mounting position	Any
Design	Piston Piston rod Profile barrel
Position sensing	For proximity sensor
Variants	EX protection approval (ATEX) Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Improved running performance Extended external thread piston rod Special thread on piston rod Extended piston rod With anti-twist protection High corrosion protection Dust protection Uniform, slow movement Low friction Through piston rod Through, hollow piston rod Heat-resistant seals max. 120°C Laser etched rating plate Temperature range -40 to 80°C Piston rod at one end
Operating pressure	0.06 MPa ... 1 MPa
Operating pressure	0.6 bar ... 10 bar
Mode of operation	Double-acting
CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
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

Feature	Value
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)	0 - No corrosion stress 2 - Moderate corrosion stress 3 - High corrosion stress
LABS-Conformity	VDMA24364-B1/B2-L VDMA24364-Zone III
Ambient temperature	-40 °C ... 120 °C
Theoretical force at 6 bar, retracting	141 N
Theoretical force at 6 bar, advancing	141 N ... 188 N
Moving mass at 0 mm stroke	30 g
Additional weight per 10 mm stroke	21 g
Basic weight with 0 mm stroke	131 g
Additional moving mass per 10 mm stroke	6 g
Type of mounting	Optionally: With through-hole With internal thread With accessories
Pneumatic connection	M5
Note on materials	RoHS-compliant
Cover material	Aluminum Anodized
Piston rod material	High-alloy steel
Material of cylinder barrel	Wrought aluminum alloy Smooth anodized