

Compact cylinder ADN-20- -

Part number: 536233

FESTO



Data sheet

Feature	Value
Stroke	1 mm...300 mm
Piston diameter	20 mm
Cushioning	Elastic cushioning rings/pads at both ends Self-adjusting pneumatic end-position cushioning
Mounting position	Any
Conforms to standard	ISO 21287
Structural design	Piston Piston rod Profile barrel
Position sensing	Via proximity switch
Variants	EX protection approval (ATEX) Metals with copper, zinc or nickel by mass 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. Stroke adjustment advancing Stroke adjustment extending/at front Weld spatter protection Internal thread on piston rod Piston rod with external hexagon Module for reaching a specific end position in case of a pressure failure Transverse load increased High corrosion protection Reinforced piston rod Uniform, slow movement Low friction Through piston rod Through, hollow piston rod Temperature range 0 to + 150°C Temperature range -40 to 80°C Additional PTFE piston guide
Operating pressure	0.06 MPa...1 MPa 0.6 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 protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
Explosion prevention and protection	Zone 1 (ATEX)

Feature	Value
	Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) 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)	0 - No corrosion stress 2 - Moderate corrosion stress 3 - High corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L VDMA24364 Zone III
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Ambient temperature	-40 °C...120 °C
Theoretical force at 6 bar, retracting	141 N
Theoretical force at 6 bar, advancing	141 N...188 N
Weight surcharge per 10 mm piston rod extension	6 g
Weight surcharge per 10 mm piston rod thread extension	4 g
Type of mounting	Alternatively: With through-hole With internal thread With accessories
Pneumatic connection	M5
Note on materials	RoHS compliant
Flange screws material	Steel
Cover material	Wrought aluminum alloy, anodized
Piston rod material	High-alloy steel
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized