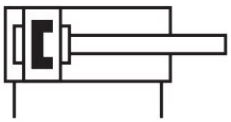
Compact cylinder
ADN-12-50-A-P-A

Part number: 8178548





Data sheet

Feature	Value
Stroke	50 mm
Piston diameter	12 mm
Piston rod thread	M5
Based on norm	ISO 21287
Cushioning	Elastic cushioning rings/pads at both ends
Mounting position	Any
Mode of operation	Double-acting
Piston rod end	External thread
Position sensing	Via proximity switch
Variants	Piston rod at one end
Operating pressure	0.1 MPa...1 MPa 1 bar...10 bar 14.5 psi...145 psi
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
Cleanroom suitability, measured according to ISO 14644-14	Class 5 according to ISO 14644-1
Ambient temperature	-20 °C...80 °C
Impact energy in the end positions	0.07 J
Theoretical force at 6 bar, retracting	51 N
Theoretical force at 6 bar, advancing	68 N
Moving mass	22 g
Product weight	126 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
Seals material	TPE-U(PUR)

Feature	Value
Piston rod material	High-alloy steel
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized