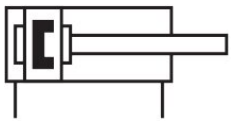
Compact cylinder
ADN-25-80-I-PPS-A

Part number: 8178887





Data sheet

Feature	Value
Stroke	80 mm
Piston diameter	25 mm
Piston rod thread	M6
Cushioning	Self-adjusting pneumatic end-position cushioning
Mounting position	Any
Conforms to standard	ISO 21287
Piston-rod end	Female thread
Position detection	Via proximity switch
Variants	Piston rod at one end
Operating pressure	0.15 MPa...1 MPa 1.5 bar...10 bar
Mode of operation	Double-acting
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
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 end positions	0.3 J
Cushioning length	3.5 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	247 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	295 N
Moving mass	81 g
Product weight	379 g
Type of mounting	Either: With through-hole With female thread With accessories
Pneumatic connection	M5
Note on materials	RoHS compliant
Material collar screws	Steel
Material cover	Anodised wrought aluminium alloy

Feature	Value
Material seals	TPE-U(PUR)
Material piston rod	High-alloy steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy