Compact cylinder
ADNGF-100-50-PPS-A

Part number: 577230



Data sheet

Feature	Value
Stroke	50 mm
Piston diameter	100 mm
Based on standard	ISO 21287
Cushioning	Self-adjusting pneumatic end-position cushioning
Mounting position	Any
Design	Piston Piston rod Profile barrel
Position detection	Via proximity switch
Protection against torque/guide	Guide rod with yoke
Operating pressure	0.14 MPa...1 MPa 1.4 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
Ambient temperature	-20 °C...80 °C
Impact energy in end positions	2.5 J
Cushioning length	10 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	4524 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	4712 N
Moving mass	1302 g
Product weight	2808 g
Pneumatic connection	G1/8
Note on materials	RoHS compliant
Material collar screws	Steel
Material cover	Coated die-cast aluminium
Material seals	TPE-U(PUR)
Material end plate	Anodised wrought aluminium alloy
Material piston rod	High-alloy steel

Feature	Value
Material cylinder barrel	Smooth-anodised wrought aluminium alloy