

compact cylinder ADN-100-50-A-PPS-A

Part number: 577205

FESTO

with self-adjusting pneumatic end position cushioning



Data sheet

Feature	Value
Stroke	50 mm
Piston diameter	100 mm
Piston rod thread	M16x1,5
Cushioning	PPS: Self-adjusting pneumatic end-position cushioning
Assembly position	Any
Conforms to standard	ISO 21287
Piston-rod end	Male thread
Position detection	For proximity sensor
Variants	Single-ended piston rod
Operating pressure MPa	0.1 ... 1 MPa
Operating pressure	1 ... 10 bar
Mode of operation	double-acting
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
Ambient temperature	-20 ... 80 °C
Impact energy in end positions	2.5 J
Cushioning length	10 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	4,524 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	4,712 N
Moving mass with 0 mm stroke	570 g
Additional mass factor per 10 mm of stroke	25 g
Basic weight for 0 mm stroke	2,154 g
Additional weight per 10 mm stroke	98 g
Mounting type	with through hole with internal (female) thread with accessories Optional
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Material of flange screw	Steel
Material cover	Die-cast aluminium, coated
Material seals	TPE-U(PUR)
Material piston rod	High alloy steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy