

# compact cylinder ADN-25-50-I-PPS-A

Part number: 577180

FESTO

with self-adjusting pneumatic end position cushioning



## Data sheet

Feature	Value
Stroke	50 mm
Piston diameter	25 mm
Piston rod thread	M6
Cushioning	PPS: Self-adjusting pneumatic end-position cushioning
Assembly position	Any
Conforms to standard	ISO 21287
Piston-rod end	Female thread
Position detection	For proximity sensor
Variants	Single-ended piston rod
Operating pressure MPa	0.15 ... 1 MPa
Operating pressure	1.5 ... 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
Cleanroom class	ISO class 6
Ambient temperature	-20 ... 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), retracting	247 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	295 N
Moving mass with 0 mm stroke	50 g
Additional mass factor per 10 mm of stroke	6 g
Basic weight for 0 mm stroke	156 g
Additional weight per 10 mm stroke	23 g
Mounting type	with through hole with internal (female) thread with accessories Optional
Pneumatic connection	M5
Materials note	Conforms to RoHS
Material of flange screw	Steel
Material cover	Anodised wrought aluminium alloy
Material seals	TPE-U(PUR)
Material piston rod	High alloy steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy