

# flat cylinder DZF-12-50-A-P-A

Part number: 161227

FESTO

Non-rotating, for position sensing, with elastic cushioning rings in end positions. Various mounting options, with or without additional mounting components.



## Data sheet

Feature	Value
Stroke	50 mm
Piston diameter	12 mm Equivalent diameter
Max. angular deflection of piston rod +/-	2.5 deg
Cushioning	P: Flexible cushioning rings/plates at both ends
Assembly position	Any
Mode of operation	double-acting
Design structure	Piston Piston rod
Position detection	For proximity sensor
Protection against torque/guide	Oval piston
Operating pressure MPa	0.16 ... 1 MPa
Operating pressure	1.6 ... 10 bar
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
Max. torque for protection against rotation	0.1 Nm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	51 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	68 N
Moving mass with 0 mm stroke	12 g
Additional mass factor per 10 mm of stroke	2 g
Additional weight per 10 mm stroke	9 g
Basic weight for 0 mm stroke	96 g
Mounting type	with internal (female) thread with accessories Optional
Pneumatic connection	M5
Material cover	Wrought Aluminium alloy
Material seals	NBR TPE-U(PU)
Material housing	Aluminium Smooth anodised
Material piston rod	High alloy steel, non-corrosive