

# compact cylinder

## ADN-50-80-A-PPS-A-C

Part number: 8076153

FESTO

Type to be discontinued. Available until 2022. See Support Portal for alternative products.



### Data sheet

Feature	Value
Stroke	80 mm
Piston diameter	50 mm
Piston rod thread	M12x1,25
Cushioning	PPS: Self-adjusting pneumatic end-position cushioning
Assembly position	Any
Conforms to standard	ISO 21287
Piston-rod end	Male thread
Design structure	Piston Piston rod
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	1 - Low corrosion stress
PWIS conformity	VDMA24364-B2-L
Ambient temperature	-20 ... 80 °C
Impact energy in end positions	2.8 J
Cushioning length	6 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	1,057 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	1,178 N
Moving mass with 0 mm stroke	118 g
Additional weight per 10 mm stroke	63 g
Basic weight for 0 mm stroke	495.5 g
Additional mass factor per 10 mm of stroke	16 g
Mounting type	with through hole with internal (female) thread with accessories Optional
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Material cover	Wrought Aluminium alloy
Material seals	TPE-U(PUR)
Material piston rod	High alloy steel
Material cylinder barrel	Wrought Aluminium alloy Smooth anodised