

# standards-based cylinder

## DNC-125-500-PPV-A

Part number: 163508

Classic - do not use for new projects

FESTO

As per ISO 15552, with profile cylinder barrel, for proximity sensing, with adjustable cushioning at both end positions.

Modern alternatives can be found by entering the first four characters of the type code in the search field.



### Data sheet

Feature	Value
Stroke	500 mm
Piston diameter	125 mm
Piston rod thread	M27x2
Cushioning	PPV: Pneumatic cushioning adjustable at both ends
Assembly position	Any
Conforms to standard	ISO 15552
Piston-rod end	Male thread
Design structure	Piston Piston rod Profile barrel
Position detection	For proximity sensor
Variants	Single-ended piston rod
Operating pressure MPa	0.06 ... 1 MPa
Operating pressure	0.6 ... 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	5 J
Cushioning length	42 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	6,881 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	7,363 N
Moving mass with 0 mm stroke	2,809 g
Additional mass factor per 10 mm of stroke	63 g
Basic weight for 0 mm stroke	6,771 g
Additional weight per 10 mm stroke	168 g
Mounting type	with internal (female) thread with accessories
Pneumatic connection	G1/2
Materials note	Conforms to RoHS
Material cover	Aluminium die cast coated
Material seals	TPE-U(PU)
Material piston rod	High alloy steel
Material cylinder barrel	Wrought Aluminium alloy Smooth anodised