

# Standards-based cylinder DSNU-25-300-PPS-A

Part number: 559291

FESTO

with self-adjusting pneumatic end position cushioning



## Data sheet

Feature	Value
Stroke	300 mm
Piston diameter	25 mm
Piston rod thread	M10x1,25
Cushioning	PPS: Self-adjusting pneumatic end-position cushioning
Assembly position	Any
Conforms to standard	CETOP RP 52 P ISO 6432
Piston-rod end	Male thread
Design structure	Piston Piston rod Cylinder barrel
Position detection	For proximity sensor
Variants	Single-ended piston rod
Operating pressure MPa	0.1 ... 1 MPa
Working 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
Cleanroom class	ISO class 6
Ambient temperature	-20 ... 80 °C
Impact energy in end positions	0.3 J
Cushioning length	17 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	247.4 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	294.5 N
Moving mass with 0 mm stroke	71 g
Additional mass factor per 10 mm of stroke	6 g
Basic weight for 0 mm stroke	238 g
Additional weight per 10 mm stroke	11 g
Mounting type	with accessories
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Material cover	Wrought Aluminum alloy neutral anodization
Material seals	NBR TPE-U(PU)
Material piston rod	High alloy steel, non-corrosive
Material cylinder barrel	High alloy steel, non-corrosive