

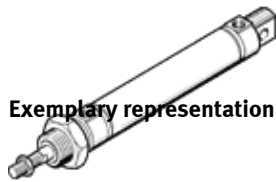
standards-based cylinder

DSNU-12- -F1A-

Part number: 8149444

FESTO

A minimum stroke of 10 mm is required for position sensing with proximity sensors.



Exemplary representation



Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 ... 200 mm
Piston diameter	12 mm
Piston rod thread	M6
Cushioning	P: Flexible cushioning rings/plates at both ends PPV: Pneumatic cushioning adjustable at both ends
Assembly position	Any
Conforms to standard	CETOP RP 52 P ISO 6432
Design structure	Piston Piston rod Cylinder barrel
Position detection	For proximity sensor
Variants	Extended male piston rod thread External piston rod thread shortened on one end Extended piston rod axial supply port lateral supply port Through piston rod Recommended for production facilities for the manufacture of lithium-ion batteries
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	0 - No corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
RSBP classification to CD-0033	F1a
Cleanroom class	ISO class 6
Ambient temperature	-20 ... 80 °C
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	50.9 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	67.9 N
Moving mass with 0 mm stroke	18.5 g
Additional mass factor per 10 mm of stroke	2 g
Basic weight for 0 mm stroke	75 g
Additional weight per 10 mm stroke	4 g
Mounting type	with accessories
Pneumatic connection	M5
Materials note	Conforms to RoHS
Material cover	Anodised wrought aluminium alloy
Material seals	TPE-U(PU)
Material piston rod	High alloy steel, non-corrosive
Material cylinder barrel	High alloy steel, non-corrosive