

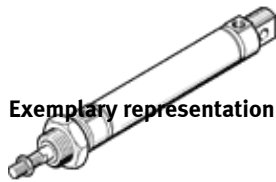
standards-based cylinder

DSNU-20- -F1A-

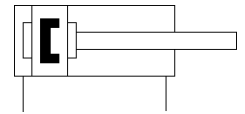
Part number: 8149446

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 ... 320 mm
Piston diameter	20 mm
Piston rod thread	M8
Cushioning	P: Flexible cushioning rings/plates at both ends PPS: Self-adjusting pneumatic end-position cushioning 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 Female thread on piston rod 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	0.1 ... 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	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
Cushioning length	15 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	158.3 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	188.5 N
Moving mass with 0 mm stroke	44 g
Additional mass factor per 10 mm of stroke	4 g
Basic weight for 0 mm stroke	186.8 g
Additional weight per 10 mm stroke	7.2 g
Mounting type	with accessories

Feature	Value
Pneumatic connection	G1/8
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