

# Round cylinder DSNU-32- -F1A-

Part number: 8149448

FESTO



 [General operating condition](#)

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 mm ... 500 mm
Piston diameter	32 mm
Piston rod thread	M10x1.25
Cushioning	Elastic cushioning rings/pads at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends
Mounting position	Any
Structural design	Piston Piston rod Cylinder barrel
Position sensing	For proximity sensor
Symbol	00991217
Variants	Stroke adjustment extending Weld spatter protection Extended external thread piston rod Internal thread on piston rod Special thread on piston rod Piston rod with external hexagon Low friction for balancer applications Swiveling rod eye mounting on the end cap Low friction
Operating pressure	0.1 MPa ... 1 MPa
Operating pressure	1 bar ... 10 bar
Mode of operation	Double-acting
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Class 6 according to ISO 14644-1
Ambient temperature	-20 °C ... 80 °C
Impact energy in the end positions	0.4 J
Cushioning length	14 mm
Theoretical force at 6 bar, retracting	415 N
Theoretical force at 6 bar, advancing	482.5 N
Moving mass at 0 mm stroke	121 g
Additional moving mass per 10 mm stroke	9 g
Basic weight with 0 mm stroke	370.5 g

<b>Feature</b>	<b>Value</b>
Additional weight per 10 mm stroke	15.5 g
Type of mounting	With accessories
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Cover material	Wrought aluminum alloy, anodized
Seals material	TPE-U(PU)
Piston rod material	High-alloy stainless steel
Material of cylinder barrel	High-alloy stainless steel