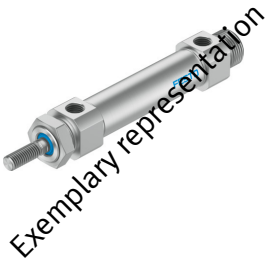
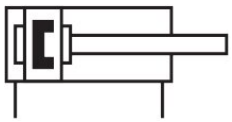
Round cylinder
DSNU-S-20- -F1A-

Part number: 8148788





General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 mm ... 200 mm
Piston diameter	20 mm
Cushioning	Elastic cushioning rings/plates at both ends Self-adjusting pneumatic end-position cushioning
Mounting position	optional
Design	Piston Piston rod Cylinder barrel
Position detection	Via proximity switch
Symbol	00991217
Variants	Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Extended male piston rod thread Piston rod with female thread Extended piston rod Axial supply port Swivel mounting, end cap Lateral supply port Mounting thread, end cap Shortened male piston rod thread
Operating pressure	0.08 MPa ... 1 MPa
Operating pressure	0.8 bar ... 10 bar
Mode of operation	Double-acting
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Corrosion resistance class CRC	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	Suitable for battery production according to the Festo internal definition of the degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni
Cleanroom class	Class 5 according to ISO 14644-1
Ambient temperature	-20 °C ... 80 °C
Impact energy in end positions	0.2 J
Cushioning length	15 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	158.3 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	188.5 N

Feature	Value
Moving mass for 0 mm stroke	37.3 g
Additional moving mass per 10 mm stroke	4 g
Basic weight for 0 mm stroke	126 g
Additional weight per 10 mm stroke	7.2 g
Type of mounting	With accessories
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Material cover	Anodised wrought aluminium alloy
Material seals	TPE-U(PU)
Material piston rod	High-alloy stainless steel
Material cylinder barrel	High-alloy stainless steel