

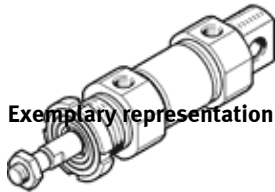
# round cylinder DSNU-50- -

Part number: 193994

★ Core product range

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

FESTO



## Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 ... 500 mm
Piston diameter	50 mm
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
Design structure	Piston Piston rod Cylinder barrel
Position detection	For proximity sensor
Variants	Extended male piston rod thread Female thread on piston rod Piston rod with special thread External piston rod thread shortened on one end Extended piston rod clamping unit on piston rod axial supply port With direct mounting lateral supply port Metal wiper seal With protection against rotation Excellent corrosion protection Dust protection Constant slow movement Low-friction Through piston rod Heat resistant seals, max. 120°C Single-ended piston rod
Protection against torque/guide	Square piston rod
Operating pressure MPa	0.1 ... 1 MPa
Operating pressure	1 ... 10 bar
Mode of operation	double-acting
CE mark (see declaration of conformity)	to EU directive explosion protection (ATEX)
UKCA marking (see declaration of conformity)	To UK EX instructions
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
ATEX category Gas	II 2G
ATEX category Dust	II 2D
Explosion ignition protection type Gas	Ex h IIC T4 Gb
Explosion ignition protection type Dust	Ex h IIIC T120°C Db
Explosion-proof ambient temperature	-20°C ≤ Ta ≤ +60°C

<b>Feature</b>	<b>Value</b>
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 3 - High corrosion stress
PWIS conformity	VDMA24364-B1/B2-L VDMA24364 zone III
Ambient temperature	-20 ... 120 °C
Cushioning length	20 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	990 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	1,178 N
Moving mass with 0 mm stroke	413 g
Additional mass factor per 10 mm of stroke	25 g
Basic weight for 0 mm stroke	1,087 g
Additional weight per 10 mm stroke	40 g
Mounting type	with accessories
Pneumatic connection	G1/4
Materials note	Conforms to RoHS
Material cover	Wrought Aluminium alloy
Material seals	NBR TPE-U(PU)
Material piston rod	High alloy steel, non-corrosive
Material cylinder barrel	High alloy steel, non-corrosive