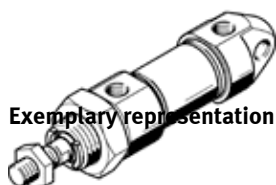


# Round cylinder CRDSNU-50-

Part number: 552793

FESTO



## Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 ... 500 mm
Piston diameter	50 mm
Piston rod thread	M16x1,5 M10
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
Piston-rod end	Male thread Female thread
Design structure	Piston Piston rod Cylinder barrel
Position detection	For proximity sensor
Variants	Hard scraper For unlubricated operation EX protection approval (ATEX) Increased chemical resistance Extended male piston rod thread Female thread on piston rod Piston rod with special thread Extended piston rod Bearing cap without mounting thread lateral supply port Through piston rod Heat resistant seals, max. 120°C Temperature range -40 - 80 °C Single-ended piston rod
Operating pressure MPa	0.1 ... 1 MPa
Working pressure	1 ... 10 bar
Mode of operation	double-acting
CE symbol (see declaration of conformity)	according to EU-Ex protection guideline (ATEX)
UKCA marking (see declaration of conformity)	To UK EX instructions
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
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	3 - High corrosion stress
PWIS conformity	VDMA24364-B2-L
Food-safe	See Supplementary material information

Feature	Value
Ambient temperature	-40 ... 120 °C
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	416 g
Additional mass factor per 10 mm of stroke	25 g
Basic weight for 0 mm stroke	2,020 g
Additional weight per 10 mm stroke	40 g
Mounting type	with accessories
Pneumatic connection	G1/4
Materials note	Conforms to RoHS
Material cover	High alloy steel, non-corrosive
Material piston rod	High alloy steel, non-corrosive
Material cylinder barrel	High alloy steel, non-corrosive