

Standards-based cylinder

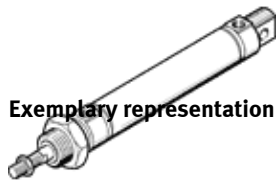
DSNU-12- -

Part number: 193988

★ Core product range

FESTO

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



Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 ... 200 mm
Piston diameter	12 mm
Cushioning	P: Flexible cushioning rings/plates at both ends 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	Increased chemical resistance Extended male piston rod 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 With protection against rotation Excellent corrosion 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	0.15 ... 1 MPa
Working pressure	1.5 ... 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
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
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]

Feature	Value
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
Impact energy in end positions	0.07 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	51 ... 68 N
Mounting type	with accessories
Pneumatic connection	M5
Materials note	Conforms to RoHS
Material cover	Wrought Aluminum alloy
Material seals	NBR TPE-U(PU)
Material piston rod	High alloy steel, non-corrosive
Material cylinder barrel	High alloy steel, non-corrosive