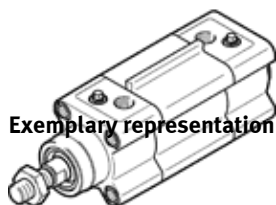


standards-based cylinder

DSBF-C-...-50- -

Part number: 570079

FESTO



Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 ... 2,800 mm
Piston diameter	50 mm
Piston rod thread	M16x1,5 M10
Based on the standard	ISO 15552
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
Conforms to standard	ISO 15552
Piston-rod end	Male thread Female thread
Design structure	Piston Piston rod Profile barrel
Position detection	For proximity sensor
Variants	For unlubricated operation Increased chemical resistance Hard wiper seal Extended male piston rod thread Female thread on piston rod Extended piston rod Constant slow movement Low-friction Through piston rod Heat resistant seals, max. 120°C Temperature range 0 - 150 °C Temperature range -40 - 80 °C
Operating pressure MPa	0.01 ... 1.2 MPa
Operating pressure	0.1 ... 12 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
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
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
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

Feature	Value
PWIS conformity	VDMA24364-B2-L VDMA24364 zone III
Food-safe	See Supplementary material information
Ambient temperature	-40 ... 150 °C
Impact energy in end positions	0.5 ... 1 J
Cushioning length	20 ... 22 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	990 ... 1,178 N
Additional weight per piston rod extension of 10 mm	25 g
Additional weight per piston rod thread extension of 10 mm	14 g
Mounting type	with internal (female) thread with accessories Optional
Pneumatic connection	G1/4
Materials note	Conforms to RoHS
Material cover	Die-cast aluminium, coated
Material piston seal	FPM TPE-U(PU)
Material piston	Wrought Aluminium alloy
Material piston rod	high-alloy stainless steel, hard chrome plated High alloy steel, non-corrosive
Material piston rod wiper seal	FPM PE TPE-U(PU)
Buffer seal material	FPM TPE-U(PU)
Cushion piston material	Aluminium POM
Material cylinder barrel	Anodised wrought aluminium alloy
Material nut	High alloy steel, non-corrosive
Rod wiper seal material	PTFE reinforced
Material bearing	Bronze Metal polymer compound POM
Material of flange screw	steel, galvanized