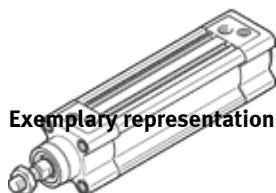


standards-based cylinder

DSBC-...-50- -F1A-

Part number: 8150689

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
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	Extended male piston rod thread Female thread on piston rod Extended piston rod Through piston rod Sensor slots on 3 profile sides Single-ended piston rod Recommended for production facilities for the manufacture of lithium-ion batteries
Operating pressure MPa	0.04 ... 1.2 MPa
Operating pressure	0.4 ... 12 bar
Mode of operation	double-acting
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
PWIS conformity	VDMA24364-C1-L
RSBP classification to CD-0033	F1a
Cleanroom class	ISO class 6
Ambient temperature	-20 ... 80 °C
Impact energy in end positions	1 J
Cushioning length	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	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

Feature	Value
Materials note	Conforms to RoHS
Material cover	Die-cast aluminium, coated
Material piston seal	TPE-U(PU)
Material piston	Wrought Aluminium alloy
Material piston rod	High alloy steel
Material piston rod wiper seal	TPE-U(PU)
Buffer seal material	TPE-U(PU)
Cushion piston material	POM
Material cylinder barrel	Smooth-anodised wrought aluminium alloy
Material nut	Steel, chemical nickel-plated
Material bearing	POM
Material of flange screw	Steel, chemically nickel-plated