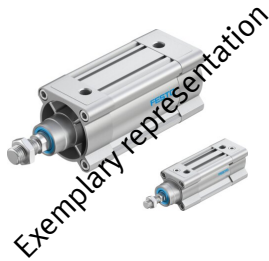


Standards-based cylinder DSBC-...-50- -F1A-

Part number: 8150689

FESTO



General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 mm ... 2800 mm
Piston diameter	50 mm
Piston rod thread	M16x1.5 M10
Cushioning	Elastic cushioning rings/pads at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends
Mounting position	Any
Conforms to standard	ISO 15552
Piston rod end	External thread Internal thread
Structural design	Piston Piston rod Profile barrel
Position sensing	For proximity sensor
Symbol	00991217 00991218 00991235 00991237 00992970 00992971
Variants	Extended external thread piston rod Internal thread on piston rod Extended piston rod Through piston rod Sensor slots on 3 profile sides Piston rod at one end
Operating pressure	0.04 MPa ... 1.2 MPa
Operating pressure	0.4 bar ... 12 bar
Mode of operation	Double-acting
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-C1-L
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom class	Class 5 according to ISO 14644-1
Ambient temperature	-20 °C ... 80 °C
Impact energy in the end positions	1 J
Cushioning length	22 mm

Feature	Value
Theoretical force at 6 bar, retracting	990 N
Theoretical force at 6 bar, advancing	1178 N
Weight surcharge per 10 mm piston rod extension	25 g
Weight surcharge per 10 mm piston rod thread extension	14 g
Type of mounting	With internal thread With accessories
Pneumatic connection	G1/4
Note on materials	RoHS-compliant
Cover material	Die-cast aluminum, coated
Piston seal material	TPE-U(PU)
Material of piston	Wrought aluminum alloy
Piston rod material	High-alloy steel
Piston rod wiper material	TPE-U(PU)
Buffer seal material	TPE-U(PU)
Cushion piston material	POM
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized
Nut material	Steel, nickel-plated
Material of bearing	POM
Flange screws material	Steel, nickel-plated