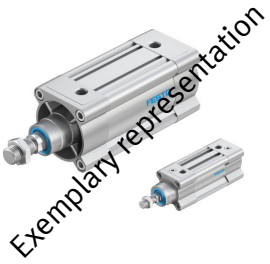
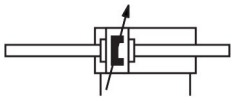
Standards-based cylinder
DSBC-...-32- -F1A-

Part number: 8150687





General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 mm ... 2800 mm
Piston diameter	32 mm
Piston rod thread	M6 M10x1.25
Cushioning	Elastic cushioning rings/plates at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends
Mounting position	optional
Conforms to standard	ISO 15552
Piston-rod end	Male thread Female thread
Design	Piston Piston rod Profile barrel
Position detection	Via proximity switch
Symbol	00991217 00991218 00991235 00991237 00992970 00992971
Variants	Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Extended male piston rod thread Piston rod with female thread Extended piston rod Through piston rod Sensor slots on 3 profile sides Piston rod at one end
Operating pressure	0.06 MPa ... 1.2 MPa
Operating pressure	0.6 bar ... 12 bar
Mode of operation	Double-acting
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-C1-L

Feature	Value
Suitability for the production of Li-ion batteries	Suitable for battery production according to the Festo internal definition of the degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni
Cleanroom class	Class 5 according to ISO 14644-1
Ambient temperature	-20 °C ... 80 °C
Impact energy in end positions	0.4 J
Cushioning length	17 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	415 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	483 N
Additional weight per piston rod extension of 10 mm	9 g
Additional weight per piston rod thread extension of 10 mm	6 g
Type of mounting	Either: Via female thread With accessories
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Material cover	Coated die-cast aluminium
Material piston seal	TPE-U(PU)
Material piston	Wrought aluminium alloy
Material piston rod	High-alloy steel
Material piston rod wiper	TPE-U(PU)
Buffer seal material	TPE-U(PU)
Cushioning boss material	POM
Material cylinder barrel	Smooth-anodised wrought aluminium alloy
Material nut	Steel, nickel-plated
Material bearing	POM
Material collar screws	Steel, nickel-plated