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

Part number: 8150687

Data sheet

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	Any
Conforms to standard	ISO 15552
Piston-rod end	Male thread Female thread
Design	Piston Piston rod Profile barrel
Position detection	Via proximity switch
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. Advancing stroke adjustment 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 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
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Class 5 according to ISO 14644-1

Feature	Value
Ambient temperature	-20 °C...80 °C
Impact energy in end positions	0.32 J...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: With 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)
Material of cushioning boss	POM
Material cylinder barrel	Smooth-anodised wrought aluminium alloy
Material nut	Steel, chemically nickel-plated
Material bearing	POM
Material collar screws	Steel, nickel-plated