Compact cylinder
DPDM-...-32- -
Part number: 4650681

Data sheet

Feature	Value
Stroke	5 mm...50 mm
Piston diameter	32 mm
Cushioning	Elastic cushioning rings/plates at both ends
Mounting position	optional
Mode of operation	Double-acting Pushing Single-acting Pulling
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. Through piston rod Through, hollow piston rod Heat-resistant seals max. 120ºC Piston rod at one end
Protection against torque/guide	Guide rod with yoke
Operating pressure	0.1 MPa...0.8 MPa 1 bar...8 bar
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	0 - No corrosion stress 1 - Low corrosion stress 2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	Product corresponds to the internal product definition from Festo for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 6 according to ISO 14644-1
Ambient temperature	-10 ºC...120 ºC

Feature	Value
Theoretical force at 0.6 MPa (6 bar, 87 psi)	415 N...483 N
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	415 N...483 N
Type of mounting	With through-hole Via female thread Either:
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Material cover	Wrought aluminium alloy
Material housing	Anodised wrought aluminium alloy
Material piston rod	High-alloy stainless steel