

# Mini slide DGST-12- -

Part number: 8073894

FESTO



## Data sheet

Feature	Value
Stroke	10 mm...100 mm
Adjustable end position range/length front	7.35 mm...22.1 mm
Adjustable end position range/length rear	7.6 mm...20.8 mm
Piston diameter	12 mm
Operating mode, drive unit	Yoke
Cushioning	Short elastic cushioning rings/pads at both ends Elastomer cushioning, double-sided, stroke not adjustable Elastic cushioning rings/plates at both ends Elastic cushioning rings/pads at both ends with fixed stop External hydraulic cushioning
Mounting position	optional
Guide	Recirculating ball bearing guide
Design	Twin piston Yoke Piston rod Slide
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.
Operating pressure	0.1 MPa...0.8 MPa 1 bar...8 bar 14.5 psi...116 psi
Max. speed	0.5 m/s...0.8 m/s
Repetition accuracy	<= 0.3 mm <= 0.02 mm
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	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Feature	Value
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 °C...60 °C
Impact energy in end positions	0.04 J...1.4 J
Cushioning length	1.1 mm...5 mm
Max. force F <sub>y</sub>	500 N...620 N
Max. force F <sub>z</sub>	500 N...620 N
Max. moment M <sub>x</sub>	4.2 Nm...10 Nm
Max. moment M <sub>y</sub>	4.2 Nm...6.8 Nm
Max. moment M <sub>z</sub>	4.2 Nm...6.8 Nm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	102 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	136 N
Moving mass	195 g...488 g
Product weight	391 g...1034 g
Type of mounting	With through-hole
Pneumatic connection	M5
Note on materials	RoHS-compliant
Material cover	Wrought aluminium alloy
Material seals	HNBR
Material guide	POM TPE-E High-alloy steel
Material housing	Wrought aluminium alloy
Material piston rod	High-alloy stainless steel