

# Mini slide DGST-16-100-Y12A

Part number: 8085180

FESTO



[PDF](#) [General operating condition](#)

## Data sheet

Feature	Value
Stroke	100 mm
Adjustable end-position range/front length	16.9 mm
Adjustable end-position range/rear length	15.5 mm
Piston diameter	16 mm
Drive unit operating mode	Yoke
Cushioning	External hydraulic cushioning
Mounting position	Any
Guide	Recirculating ball bearing
Structural design	Yoke Piston rod Slide
Position sensing	Via proximity switch
Symbol	00991249
Operating pressure	0.1 MPa ... 0.8 MPa
Operating pressure	1 bar ... 8 bar
Operating pressure	14.5 psi ... 116 psi
Max. speed	0.8 m/s
Repetition accuracy	≤ 0.02 mm
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)	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cleanroom suitability, measured according to ISO 14644-14	Class 6 according to ISO 14644-1
Ambient temperature	-10 °C ... 60 °C
Impact energy in the end positions	2 J
Cushioning length	5 mm
Max. force F <sub>y</sub>	940 N
Max. force F <sub>z</sub>	940 N
Max. torque M <sub>x</sub>	12 Nm
Max. torque M <sub>y</sub>	10 Nm
Max. torque M <sub>z</sub>	10 Nm
Theoretical force at 6 bar, retracting	207 N
Theoretical force at 6 bar, advancing	241 N

<b>Feature</b>	<b>Value</b>
Moving mass	548 g
Product weight	1126 g
Type of mounting	With through-hole
Pneumatic connection	M5
Note on materials	RoHS compliant
Cover material	Wrought aluminum alloy
Seals material	HNBR
Guide material	POM TPE-E High-alloy steel
Housing material	Wrought aluminum alloy
Piston rod material	high-alloy stainless steel