

# Mini slide DGST-20-100-Y12A

Part number: 8085187

FESTO



 [General operating condition](#)

## Data sheet

Feature	Value
Stroke	100 mm
Adjustable end position range/length front	27.7 mm
Adjustable end position range/length rear	25.9 mm
Piston diameter	20 mm
Operating mode, drive unit	Yoke
Cushioning	External hydraulic cushioning
Mounting position	optional
Guide	Ball bearing cage guide
Design	Yoke Piston rod Slide
Position detection	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 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
Cleanroom suitability, measured according to ISO 14644-14	Class 6 according to ISO 14644-1
Ambient temperature	-10 °C ... 60 °C
Impact energy in end positions	3 J
Cushioning length	8 mm
Max. force F <sub>y</sub>	1160 N
Max. force F <sub>z</sub>	1160 N
Max. moment M <sub>x</sub>	18 Nm
Max. moment M <sub>y</sub>	11 Nm
Max. moment M <sub>z</sub>	11 Nm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	317 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	377 N

<b>Feature</b>	<b>Value</b>
Moving mass	947 g
Product weight	2076 g
Type of mounting	With through-hole
Pneumatic connection	G1/8
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