

# Mini slide DGST-6-50-PA

Part number: 8085109

FESTO



 [General operating condition](#)

## Data sheet

Feature	Value
Stroke	50 mm
Adjustable end position range/length front	13.1 mm
Adjustable end position range/length rear	11.6 mm
Piston diameter	6 mm
Operating mode, drive unit	Yoke
Cushioning	Elastic cushioning rings/plates at both ends
Mounting position	Any
Guide	Recirculating ball bearing guide
Design	Yoke Piston rod Slide
Position detection	Via proximity switch
Symbol	00991249
Operating pressure	0.15 MPa ... 0.8 MPa
Operating pressure	1.5 bar ... 8 bar
Operating pressure	21.75 psi ... 116 psi
Max. speed	0.5 m/s
Repetition accuracy	≤ 0.3 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	0.018 J
Cushioning length	0.9 mm
Max. force F <sub>y</sub>	280 N
Max. force F <sub>z</sub>	280 N
Max. moment M <sub>x</sub>	1.4 Nm
Max. moment M <sub>y</sub>	1.2 Nm
Max. moment M <sub>z</sub>	1.2 Nm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	25 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	34 N

<b>Feature</b>	<b>Value</b>
Moving mass	93 g
Product weight	182 g
Type of mounting	With through-hole
Pneumatic connection	M3
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