

Mini slide DGST-6-50-Y12A

Part number: 8085161

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Stroke	50 mm
Adjustable end-position range/front length	11.2 mm
Adjustable end-position range/rear length	9.6 mm
Piston diameter	6 mm
Drive unit operating mode	Yoke
Cushioning	External hydraulic cushioning
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Yoke Piston rod Slide
Position sensing	For proximity sensor
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	≤ 0.02 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	0.1 J
Cushioning length	4 mm
Max. force F _y	280 N
Max. force F _z	280 N
Max. torque M _x	1.4 Nm
Max. torque M _y	1.2 Nm
Max. torque M _z	1.2 Nm
Theoretical force at 6 bar, retracting	25 N
Theoretical force at 6 bar, advancing	34 N

Feature	Value
Moving mass	91.9 g
Product weight	179.8 g
Type of mounting	With through-hole
Pneumatic connection	M3
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