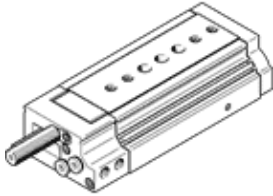


# Mini slide DGSL-20-80-P1A

Part number: 544019

FESTO

For position sensing, with highly accurate, durable ball-cage guide and very high repetition accuracy, flexible damping on both sides with metallic end position (P1).



## Data sheet

Feature	Value
Stroke	80 mm
Adjustable end position range/front length	50.5 mm
Adjustable end position range/rear length	49.5 mm
Piston diameter	25 mm
Operating mode of drive unit	Yoke
Cushioning	P1: Flexible cushioning rings/plates with stop at both ends
Assembly position	Any
Guide	Ball bearing cage guide
Design structure	Yoke Piston Piston rod Slide
Position detection	For proximity sensor
Operating pressure MPa	0.1 ... 0.8 MPa
Working pressure	1 ... 8 bar
Max. speed	0.8 m/s
Repetition accuracy	±0,01 mm
Mode of operation	double-acting
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	0 - No corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
Ambient temperature	0 ... 60 °C
Impact energy in end positions	0.2 Nm
Cushioning length	5 mm
Max. force F <sub>y</sub>	4,032 N
Max. force F <sub>z</sub>	4,032 N
Max. torque M <sub>x</sub>	75 Nm
Max. torque M <sub>y</sub>	50 Nm
Max. torque M <sub>z</sub>	50 Nm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	247 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	295 N
Moving mass	998 g
Product weight	2,449 g
alternative connections	See product drawing
Mounting type	with through hole
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Material cover	Wrought Aluminum alloy
Material seals	HNBR
Material housing	Wrought Aluminum alloy
Material piston rod	High alloy steel, non-corrosive