

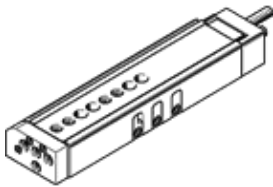
# mini slide

## DGSL-10-80-P1A

Part number: 543954



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 endposition range/front length	51.5 mm
Adjustable endposition range/rear length	20 mm
Piston diameter	12 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	0.15 ... 0.8 MPa
Operating pressure	1.5 ... 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	0.04 Nm
Cushioning length	3.4 mm
Max. force F <sub>y</sub>	1,200 N
Max. force F <sub>z</sub>	1,200 N
Max. torque M <sub>x</sub>	18 Nm
Max. torque M <sub>y</sub>	12 Nm
Max. torque M <sub>z</sub>	12 Nm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	51 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	68 N
Moving mass	299 g
Product weight	751 g
alternative connections	See product drawing
Mounting type	with through hole
Pneumatic connection	M5
Materials note	Conforms to RoHS
Material cover	Wrought Aluminium alloy
Material seals	HNBR
Material housing	Wrought Aluminium alloy
Material piston rod	High alloy steel, non-corrosive