

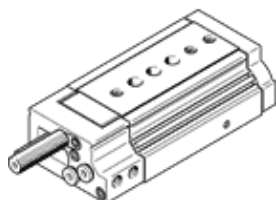
# mini slide

## DGSL-20-50-P1A

Part number: 544018

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	50 mm
Adjustable endposition range/front length	50.5 mm
Adjustable endposition 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	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
Ambient temperature	0 ... 60 °C
Impact energy in end positions	0.2 Nm
Cushioning length	5 mm
Max. force F <sub>y</sub>	3,816 N
Max. force F <sub>z</sub>	3,816 N
Max. torque M <sub>x</sub>	70 Nm
Max. torque M <sub>y</sub>	50 Nm
Max. torque M <sub>z</sub>	50 Nm
Theoretical force at 6 bar, return stroke	247 N
Theoretical force at 6 bar, advance stroke	295 N
Moving mass	858 g
Product weight	2,145 g
alternative connections	See product drawing
Mounting type	with through hole
Pneumatic connection	G1/8
Materials note	Free of copper and PTFE Conforms to RoHS
Material cover	Wrought Aluminium alloy
Material seals	HNBR
Material housing	Wrought Aluminium alloy
Material piston rod	High alloy steel, non-corrosive