

# Guided drive DGRC-GF-12-50-PA

Part number: 8218187

**FESTO**



## Data sheet

Feature	Value
Distance of centre of gravity of payload to yoke plate xs	50 mm
Stroke	50 mm
Piston diameter	12 mm
Drive unit operating mode	Yoke
Cushioning	Elastic cushioning rings/pads at both ends
Mounting position	Any
Guide	Sliding guide
Structural design	Guide
Position sensing	For proximity sensor
Protection against torsion/guide	Guide rod with yoke
Operating pressure	0.2 MPa...1 MPa 2 bar...10 bar
Max. speed	0.8 m/s
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)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Suitability for the production of Li-ion batteries	Suitable for battery production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni
Ambient temperature	-10 °C...60 °C
Impact energy in the end positions	0.07 Nm
Max. force Fy	187 N
Max. force Fy static	187 N
Max. force Fz	187 N
Max. force Fz static	187 N
Max. torque Mx	3.55 Nm
Max. static moment Mx	3.55 Nm
Max. torque My	2.2 Nm
Max. static moment My	2.2 Nm
Max. torque Mz	2.2 Nm

Feature	Value
Max. static moment Mz	2.2 Nm
Max. permissible torque load Mx as a function of the stroke	0.47 Nm
Max. payload as a function of the stroke at defined distance xs	15.7 N
Theoretical force at 6 bar, retracting	51 N
Theoretical force at 6 bar, advancing	68 N
Torsional backlash	0.065 deg
Moving mass	142.5 g
Product weight	317.8 g
Basic weight with 0 mm stroke	175.3 g
Center of gravity of the moving mass as a function of the stroke	37.5 mm
Pneumatic connection	M5
Note on materials	RoHS-compliant
Cover material	Wrought aluminum alloy
Seals material	NBR
Material of dynamic seals	TPE-U(PU)
End plate material	Wrought aluminum alloy, anodized
Guide rod material	High-alloy steel
Housing material	Wrought aluminum alloy, anodized
Piston rod material	High-alloy steel