

# Guided drive DGRC-GF-40-80-PA

Part number: 8218221

**FESTO**



## Data sheet

Feature	Value
Distance of centre of gravity of payload to yoke plate xs	50 mm
Stroke	80 mm
Piston diameter	40 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	0.15 MPa...1 MPa 1.5 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	0.7 Nm
Max. force Fy	1057 N
Max. force Fy static	1057 N
Max. force Fz	1057 N
Max. force Fz static	1057 N
Max. torque Mx	44.39 Nm
Max. static moment Mx	44.39 Nm
Max. torque My	31.18 Nm
Max. static moment My	31.18 Nm
Max. torque Mz	31.18 Nm

Feature	Value
Max. static moment Mz	31.18 Nm
Max. permissible torque load Mx as a function of the stroke	8.22 Nm
Max. payload as a function of the stroke at defined distance xs	147.9 N
Theoretical force at 6 bar, retracting	686 N
Theoretical force at 6 bar, advancing	754 N
Torsional backlash	0.035 deg
Moving mass	996.3 g
Product weight	1888.3 g
Basic weight with 0 mm stroke	892 g
Center of gravity of the moving mass as a function of the stroke	66.6 mm
Pneumatic connection	G1/8
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