

Guided drive DGRC-GF-25-20-PA

Part number: 8218205

FESTO



[PDF](#) General operating condition

Data sheet

Feature	Value
Distance of centre of gravity of payload to yoke plate xs	50 mm
Stroke	20 mm
Piston diameter	25 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
Symbol	00991737
Protection against torsion/guide	Guide rod with yoke
Operating pressure	0.15 MPa ... 1 MPa
Operating pressure	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 with reduced Cu/Zn/Ni values (F1a)
Ambient temperature	-10 °C ... 60 °C
Impact energy in the end positions	0.3 J
Max. force Fy	663 N
Max. force Fy static	663 N
Max. force Fz	663 N
Max. force Fz static	663 N
Max. torque Mx	21.22 Nm
Max. static moment Mx	21.22 Nm
Max. torque My	9.28 Nm
Max. static moment My	9.28 Nm
Max. torque Mz	9.28 Nm
Max. static moment Mz	9.28 Nm
Max. permissible torque load Mx as a function of the stroke	4.74 Nm
Max. payload as a function of the stroke at defined distance xs	82 N
Theoretical force at 6 bar, retracting	247 N
Theoretical force at 6 bar, advancing	295 N

Feature	Value
Torsional backlash	0.045 deg
Moving mass	247.5 g
Product weight	476.8 g
Basic weight with 0 mm stroke	229.3 g
Center of gravity of the moving mass as a function of the stroke	23.4 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