

Guided drive DFM-100-50-P-A-KF

Part number: 170968

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Distance from centre of gravity of load to yoke plate xs	125 mm
Stroke	50 mm
Piston diameter	100 mm
Operating mode, drive unit	Yoke
Cushioning	Elastic cushioning rings/plates at both ends
Mounting position	optional
Guide	Recirculating ball bearing guide
Design	Guidance
Position detection	Via proximity switch
Symbol	00991737
Operating pressure	0.05 MPa ... 1 MPa
Operating pressure	0.5 bar ... 10 bar
Max. speed	0.4 m/s
Mode of operation	Double-acting
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Corrosion resistance class CRC	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cleanroom class	Class 6 according to ISO 14644-1
Ambient temperature	-5 °C ... 60 °C
Impact energy in end positions	1 J
Max. force Fy	3043 N
Max. force Fy static	5400 N
Max. force Fz	3043 N
Max. force Fz static	5400 N
Max. moment Mx	286.02 Nm
Max. torque Mx static	507.6 Nm
Max. moment My	109.53 Nm
Max. torque My static	194.4 Nm
Max. moment Mz	109.53 Nm
Max. torque Mz static	194.4 Nm
Max. permissible torque load Mx as a function of stroke	63.12 Nm
Max. effective load dependent upon stroke at defined distance xs	415 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	4418 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	4712 N

Feature	Value
Moving mass	6318 g
Product weight	11980 g
Centre of gravity of moving mass as a function of stroke	48.3 mm
alternative connections	See product drawing
Pneumatic connection	G3/8
Note on materials	RoHS-compliant
Material cover	Wrought aluminium alloy
Material seals	NBR
Material housing	Wrought aluminium alloy
Material piston rod	High-alloy stainless steel