

Guided drive DFM-50-25-P-A-KF

Part number: 170946

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Distance from centre of gravity of load to yoke plate xs	50 mm
Stroke	25 mm
Piston diameter	50 mm
Operating mode, drive unit	Yoke
Cushioning	Elastic cushioning rings/plates at both ends
Mounting position	Any
Guide	Recirculating ball bearing guide
Design	Guidance
Position detection	Via proximity switch
Symbol	00991737
Operating pressure	0.1 MPa ... 1 MPa
Operating pressure	1 bar ... 10 bar
Max. speed	0.6 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 suitability, measured according to ISO 14644-14	Class 6 according to ISO 14644-1
Ambient temperature	-5 °C ... 60 °C
Impact energy in end positions	1 J
Max. force Fy	1487 N
Max. force Fy static	1600 N
Max. force Fz	1487 N
Max. force Fz static	1600 N
Max. moment Mx	81.79 Nm
Max. torque Mx static	88 Nm
Max. moment My	31.98 Nm
Max. torque My static	34.4 Nm
Max. moment Mz	31.98 Nm
Max. torque Mz static	34.4 Nm
Max. permissible torque load Mx as a function of stroke	19.35 Nm
Max. effective load dependent upon stroke at defined distance xs	235 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	1057 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	1178 N

Feature	Value
Moving mass	1796 g
Product weight	3212 g
Centre of gravity of moving mass as a function of stroke	30.6 mm
alternative connections	See product drawing
Pneumatic connection	G1/4
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