

Guided drive DFM-50-50-P-A-KF-F1A

Part number: 8118935

FESTO



Data sheet

Feature	Value
Distance from centre of gravity of load to yoke plate xs	50 mm
Stroke	50 mm
Piston diameter	50 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
Variants	Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.
Operating pressure	0.1 MPa...1 MPa 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
Suitability for the production of Li-ion batteries	Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Ambient temperature	-5 °C...60 °C
Impact energy in end positions	1 Nm
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

Feature	Value
Max. moment M_y	31.98 Nm
Max. torque M_y static	34.4 Nm
Max. moment M_z	31.98 Nm
Max. torque M_z static	34.4 Nm
Max. permissible torque load M_x as a function of stroke	15.51 Nm
Max. effective load dependent upon stroke at defined distance x_s	202 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
Moving mass	1969 g
Product weight	3801 g
Centre of gravity of moving mass as a function of stroke	39.5 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