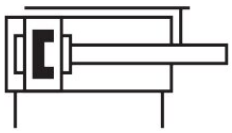
Guided drive
DFM-40-100-P-A-KF-F1A

Part number: 8118917





Data sheet

Feature	Value
Distance of centre of gravity of payload to yoke plate xs	50 mm
Stroke	100 mm
Piston diameter	40 mm
Drive unit operating mode	Yoke
Cushioning	Elastic cushioning rings/pads at both ends
Mounting position	Any
Guide	Recirculating ball bearing
Structural design	Guide
Position sensing	Via proximity switch
Variants	Metals with copper, zinc or nickel by mass 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	0.15 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 with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Class 6 according to ISO 14644-1
Ambient temperature	-5 °C...60 °C
Impact energy in the end positions	0.7 Nm
Max. force Fy	1130 N
Max. force Fy static	1260 N
Max. force Fz	1130 N
Max. force Fz static	1260 N
Max. torque Mx	49.74 Nm
Max. static moment Mx	55.44 Nm
Max. torque My	28.83 Nm

Feature	Value
Max. static moment My	32.13 Nm
Max. torque Mz	28.83 Nm
Max. static moment Mz	32.13 Nm
Max. permissible torque load Mx as a function of the stroke	7.74 Nm
Max. payload as a function of the stroke at defined distance xs	138 N
Theoretical force at 6 bar, retracting	686 N
Theoretical force at 6 bar, advancing	754 N
Moving mass	1433 g
Product weight	3265 g
Center of gravity of the moving mass as a function of the stroke	62.1 mm
Alternative connections	See product drawing
Pneumatic connection	G1/8
Note on materials	RoHS compliant
Cover material	Wrought aluminum alloy
Seals material	NBR
Housing material	Wrought aluminum alloy
Piston rod material	high-alloy stainless steel