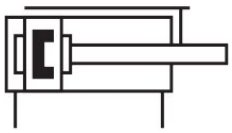
Guided drive
DFM-40-50-P-A-KF-F1A

Part number: 8118915



Data sheet

Feature	Value
Distance from centre of gravity of load to yoke plate xs	50 mm
Stroke	50 mm
Piston diameter	40 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
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 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	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 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. moment Mx	49.74 Nm
Max. torque Mx static	55.44 Nm
Max. moment My	18.66 Nm

Feature	Value
Max. torque My static	20.79 Nm
Max. moment Mz	18.66 Nm
Max. torque Mz static	20.79 Nm
Max. permissible torque load Mx as a function of stroke	8 Nm
Max. effective load dependent upon stroke at defined distance xs	126 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	686 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	754 N
Moving mass	1175 g
Product weight	2439 g
Centre of gravity of moving mass as a function of stroke	37.3 mm
alternative connections	See product drawing
Pneumatic connection	G1/8
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