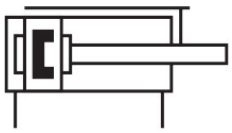
Guided drive
DFM-100-25-P-A-KF

Part number: 170967



Data sheet

Feature	Value
Distance from centre of gravity of load to yoke plate xs	125 mm
Stroke	25 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
Operating pressure	0.05 MPa...1 MPa 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
Ambient temperature	-5 °C...60 °C
Impact energy in end positions	1 Nm
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	76.06 Nm
Max. torque My static	135 Nm
Max. moment Mz	76.06 Nm
Max. torque Mz static	135 Nm
Max. permissible torque load Mx as a function of stroke	60.83 Nm
Max. effective load dependent upon stroke at defined distance xs	332 N

Feature	Value
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
Moving mass	5696 g
Product weight	10520 g
Centre of gravity of moving mass as a function of stroke	35 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