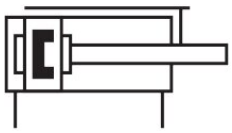
Guided drive
DFM-80-80-P-A-KF

Part number: 170962



General operating condition

Data sheet

Feature	Value
Distance from centre of gravity of load to yoke plate xs	125 mm
Stroke	80 mm
Piston diameter	80 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
Symbol	00991737
Operating pressure	0.05 MPa ... 1 MPa
Operating pressure	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
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	0.75 J
Max. force Fy	2048 N
Max. force Fy static	3120 N
Max. force Fz	2048 N
Max. force Fz static	3120 N
Max. moment Mx	158.67 Nm
Max. torque Mx static	241.8 Nm
Max. moment My	100.35 Nm
Max. torque My static	152.9 Nm
Max. moment Mz	100.35 Nm
Max. torque Mz static	152.9 Nm
Max. permissible torque load Mx as a function of stroke	36.64 Nm
Max. effective load dependent upon stroke at defined distance xs	329 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	2827 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	3016 N

Feature	Value
Moving mass	4632 g
Product weight	8895 g
Centre of gravity of moving mass as a function of stroke	66.8 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