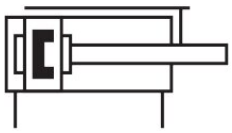
Guided drive
DFM-16-80-P-A-KF

Part number: 170913



General operating condition

Data sheet

Feature	Value
Distance from centre of gravity of load to yoke plate xs	50 mm
Stroke	80 mm
Piston diameter	16 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
Symbol	00991737
Operating pressure	0.2 MPa ... 1 MPa
Operating pressure	2 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
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	0.15 J
Max. force Fy	778 N
Max. force Fy static	830 N
Max. force Fz	778 N
Max. force Fz static	830 N
Max. moment Mx	17.9 Nm
Max. torque Mx static	19.09 Nm
Max. moment My	10.5 Nm
Max. torque My static	11.2 Nm
Max. moment Mz	10.5 Nm
Max. torque Mz static	11.2 Nm
Max. permissible torque load Mx as a function of stroke	2.03 Nm
Max. effective load dependent upon stroke at defined distance xs	64 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	90 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	121 N

Feature	Value
Moving mass	359 g
Product weight	872 g
Centre of gravity of moving mass as a function of stroke	47.8 mm
alternative connections	See product drawing
Pneumatic connection	M5
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