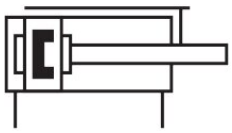
Guided drive
DFM-25-80-P-A-KF

Part number: 170927



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	25 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	0.15 MPa ... 1 MPa
Operating pressure	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
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	0.3 J
Max. force Fy	863 N
Max. force Fy static	1060 N
Max. force Fz	863 N
Max. force Fz static	1060 N
Max. moment Mx	29.35 Nm
Max. torque Mx static	36.04 Nm
Max. moment My	16.83 Nm
Max. torque My static	20.67 Nm
Max. moment Mz	16.83 Nm
Max. torque Mz static	20.67 Nm
Max. permissible torque load Mx as a function of stroke	4.33 Nm
Max. effective load dependent upon stroke at defined distance xs	95 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	247 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	295 N

Feature	Value
Moving mass	802 g
Product weight	1863 g
Centre of gravity of moving mass as a function of stroke	50.9 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