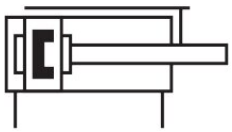
Guided drive
DFM-80-25-P-A-GF

Part number: 170885



General operating condition

Data sheet

Feature	Value
Distance from centre of gravity of load to yoke plate xs	125 mm
Stroke	25 mm
Piston diameter	80 mm
Operating mode, drive unit	Yoke
Cushioning	Elastic cushioning rings/plates at both ends
Mounting position	optional
Guide	Plain-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	1 - Low 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	-20 °C ... 80 °C
Impact energy in end positions	0.75 J
Max. force Fy	2320 N
Max. force Fy static	2320 N
Max. force Fz	2320 N
Max. force Fz static	2320 N
Max. moment Mx	179.8 Nm
Max. torque Mx static	179.8 Nm
Max. moment My	67.28 Nm
Max. torque My static	67.28 Nm
Max. moment Mz	67.28 Nm
Max. torque Mz static	67.28 Nm
Max. permissible torque load Mx as a function of stroke	41.01 Nm
Max. effective load dependent upon stroke at defined distance xs	276 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	4141 g
Product weight	6984 g
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