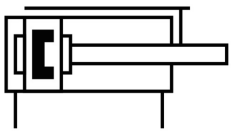
Guided actuator
DFM-20-80-P-A-KF

Part number: 170920



General operating condition

Data sheet

Feature	Value
Distance of centre of gravity of payload to yoke plate xs	50 mm
Stroke	80 mm
Piston diameter	20 mm
Drive unit operating mode	Yoke
Cushioning	Elastic cushioning rings/pads at both ends
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Guide
Position sensing	For proximity sensor
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 as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cleanroom class	Class 7 according to ISO 14644-1
Ambient temperature	-5 °C ... 60 °C
Impact energy in the end positions	0.2 J
Max. force Fy	817 N
Max. force Fy static	1020 N
Max. force Fz	817 N
Max. force Fz static	1020 N
Max. torque Mx	23.69 Nm
Max. static moment Mx	29.58 Nm
Max. torque My	15.11 Nm
Max. static moment My	18.87 Nm
Max. torque Mz	15.11 Nm
Max. static moment Mz	18.87 Nm
Max. permissible torque load Mx as a function of the stroke	3.36 Nm
Max. payload as a function of the stroke at defined distance xs	86 N
Theoretical force at 6 bar, retracting	141 N
Theoretical force at 6 bar, advancing	188 N
Moving mass	584 g

Feature	Value
Product weight	1310 g
Center of gravity of the moving mass as a function of the stroke	50.9 mm
Alternative connections	See product drawing
Pneumatic connection	M5
Note on materials	RoHS-compliant
Cover material	Wrought aluminum alloy
Seals material	NBR
Housing material	Wrought aluminum alloy
Piston rod material	High-alloy stainless steel