

# Guided actuator DFM-50-80-P-A-KF

Part number: 170948

**FESTO**



## Data sheet

Feature	Value
Distance of centre of gravity of payload to yoke plate xs	50 mm
Max. static moment Mx	88 Nm
Max. static moment My	51.2 Nm
Max. permissible torque load Mx as a function of the stroke	16.43 Nm
Max. force Fz static	1600 N
Max. force Fy static	1600 N
Center of gravity of the moving mass as a function of the stroke	57.4 mm
Max. static moment Mz	51.2 Nm
Max. force Fy	1487 N
Max. force Fz	1487 N
Max. torque My	47.58 Nm
Max. torque Mz	47.58 Nm
Stroke	80 mm
Piston diameter	50 mm
Type code	DFM
Drive unit operating mode	Yoke
Cushioning	Elastic cushioning rings/pads at both ends
Mounting position	Any
Guide	Recirculating ball bearing guide
Design	Guide
Position sensing	For proximity sensor
Symbol	00991737
Operating pressure	1 bar ... 10 bar
Max. speed	0.6 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
Ambient temperature	-5 °C ... 60 °C
Impact energy in the end positions	1 J
Max. torque Mx	81.79 Nm
Max. payload as a function of the stroke at defined distance xs	233 N
Theoretical force at 6 bar, retracting	1057 N
Theoretical force at 6 bar, advancing	1178 N
Moving mass	2287 g
Product weight	4614 g

Feature	Value
Alternative connections	See product drawing
Pneumatic connection	G1/4
Note on materials	Free of copper and PTFE RoHS-compliant
Cover material	Wrought aluminum alloy
Seals material	NBR
Housing material	Wrought aluminum alloy
Piston rod material	High-alloy stainless steel