

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

Part number: 170947

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	34.4 Nm
Max. permissible torque load Mx as a function of the stroke	15.51 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	39.5 mm
Max. static moment Mz	34.4 Nm
Max. force Fy	1487 N
Max. force Fz	1487 N
Max. torque My	31.98 Nm
Max. torque Mz	31.98 Nm
Stroke	50 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	202 N
Theoretical force at 6 bar, retracting	1057 N
Theoretical force at 6 bar, advancing	1178 N
Moving mass	1969 g
Product weight	3801 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