

# Guided actuator DFM-16-50-P-A-KF

Part number: 170912

FESTO



## Data sheet

Feature	Value
Distance of centre of gravity of payload to yoke plate xs	50 mm
Max. static moment Mx	19.09 Nm
Max. static moment My	11.2 Nm
Max. permissible torque load Mx as a function of the stroke	2.63 Nm
Max. force Fz static	830 N
Max. force Fy static	830 N
Center of gravity of the moving mass as a function of the stroke	35.2 mm
Max. static moment Mz	11.2 Nm
Max. force Fz	778 N
Max. force Fy	778 N
Max. torque My	10.5 Nm
Max. torque Mz	10.5 Nm
Stroke	50 mm
Piston diameter	16 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	2 bar ... 10 bar
Operating pressure	0.2 MPa ... 1 MPa
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
Ambient temperature	-5 °C ... 60 °C
Impact energy in the end positions	0.15 J
Max. torque Mx	17.9 Nm
Max. payload as a function of the stroke at defined distance xs	77 N
Theoretical force at 6 bar, retracting	90 N
Theoretical force at 6 bar, advancing	121 N
Moving mass	310 g

<b>Feature</b>	<b>Value</b>
Product weight	699 g
Alternative connections	See product drawing
Pneumatic connection	M5
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