

# Guided actuators DFM-20-100-P-A-KF-F1A

Part number: 8118856

FESTO



## Data sheet

Feature	Value
Distance of centre of gravity of payload to yoke plate xs	50 mm
Stroke	100 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
Variants	Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.
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
Suitability for the production of Li-ion batteries	Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 5 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

Feature	Value
Max. static moment Mz	18.87 Nm
Max. permissible torque load Mx as a function of the stroke	2.95 Nm
Max. payload as a function of the stroke at defined distance xs	78 N
Theoretical force at 6 bar, retracting	141 N
Theoretical force at 6 bar, advancing	188 N
Moving mass	632 g
Product weight	1468 g
Center of gravity of the moving mass as a function of the stroke	59.4 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