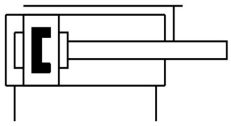
Guided actuator
DFM-100-160-P-A-KF

Part number: 170972





Data sheet

Feature	Value
Distance of centre of gravity of payload to yoke plate xs	125 mm
Max. static moment Mx	507.6 Nm
Max. static moment My	275.4 Nm
Max. permissible torque load Mx as a function of the stroke	34.2 Nm
Max. force Fz static	5400 N
Max. force Fy static	5400 N
Center of gravity of the moving mass as a function of the stroke	99.5 mm
Max. static moment Mz	275.4 Nm
Max. force Fy	3043 N
Max. force Fz	3043 N
Max. torque My	155.16 Nm
Max. torque Mz	155.16 Nm
Stroke	160 mm
Piston diameter	100 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	0.5 bar ... 10 bar
Max. speed	0.4 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	286.02 Nm
Max. payload as a function of the stroke at defined distance xs	442 N
Theoretical force at 6 bar, retracting	4418 N
Theoretical force at 6 bar, advancing	4712 N
Moving mass	8308 g
Product weight	17545 g

Feature	Value
Alternative connections	See product drawing
Pneumatic connection	G3/8
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