

# Guide cylinder DFM-50-25-P-A-GF

Part number: 170871

★ Core product range

With integral guide.

The proximity switch, type SMTSO-8E, can be used with this product with stroke lengths of 20 to 40 mm only when the corresponding mounting kit, type SMB-8E, is mounted outwardly.

FESTO



## Data sheet

Feature	Value
Centre of gravity distance from working load to yoke plate	50 mm
Stroke	25 mm
Piston diameter	50 mm
Operating mode of drive unit	Yoke
Cushioning	P: Flexible cushioning rings/plates at both ends
Assembly position	Any
Guide	Plain-bearing guide
Design structure	Guide
Position detection	For proximity sensor
Operating pressure MPa	0.1 ... 1 MPa
Working pressure	1 ... 10 bar
Max. speed	0.6 m/s
Mode of operation	double-acting
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	1 - Low corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
Ambient temperature	-20 ... 80 °C
Impact energy in end positions	1 Nm
Max. force F <sub>y</sub>	1,533 N
Max. force F <sub>y</sub> static	1,533 N
Max. force F <sub>z</sub>	1,533 N
Max. force F <sub>z</sub> static	1,533 N
Max. torque M <sub>x</sub>	84.33 Nm
Max. torque M <sub>x</sub> static	84.33 Nm
Max. torque M <sub>y</sub>	38.33 Nm
Max. torque M <sub>y</sub> static	38.33 Nm
Max. torque M <sub>z</sub>	38.33 Nm
Max. torque M <sub>z</sub> static	38.33 Nm
Max. permissible torque load M <sub>x</sub> as a function of the stroke	19.4 Nm
Max. useful load as a function of the stroke at defined distance x <sub>s</sub>	257 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	1,057 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	1,178 N
Moving mass	2,026 g
Product weight	3,440 g
alternative connections	See product drawing
Pneumatic connection	G1/4
Materials note	Conforms to RoHS
Material cover	Wrought Aluminum alloy
Material seals	NBR
Material housing	Wrought Aluminum alloy
Material piston rod	High alloy steel, non-corrosive