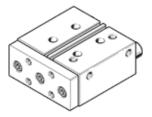
## Guide cylinder DFM-40-25-P-A-KF Part number: 170939 ★ Core product range

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.



## **Data sheet**

| Feature   | Value   |
|---|---|
| Centre of gravity distance from working load to yoke plate          | 50 mm   |
| Stroke  | 25 mm   |
| Piston diameter   | 40 mm   |
| Operating mode of drive unit  | Yoke  |
| Cushioning  | P: Flexible cushioning rings/plates at both ends                            |
| Assembly position   | Any   |
| Guide   | Recirculating ball bearing guide  |
| Design structure  | Guide   |
| Position detection  | For proximity sensor  |
| Operating pressure MPa  | 0.15 1 MPa  |
| Working pressure  | 1.5 10 bar  |
| Max. speed  | 0.8 m/s   |
| Mode of operation   | double-acting   |
| Operating medium  | Compressed air in accordance with IS08573-1:2010 [7:4:4]                    |
| Note on operating and pilot medium                                  | Lubricated operation possible (subsequently required for further operation) |
| Corrosion resistance classification CRC                             | 0 - No corrosion stress   |
| PWIS conformity   | VDMA24364-B1/B2-L   |
| Ambient temperature   | -5 60 °C  |
| Impact energy in end positions                                      | 0.7 Nm  |
| Max. force Fy   | 1,130 N   |
| Max. force Fy static  | 1,260 N   |
| Max. force Fz   | 1,130 N   |
| Max. force Fz static  | 1,260 N   |
| Max. torque Mx  | 49.74 Nm  |
| Max. torque Mx static   | 55.44 Nm  |
| Max. torque My  | 18.66 Nm  |
| Max. torque My static   | 20.79 Nm  |
| Max. torque Mz  | 18.66 Nm  |
| Max. torque Mz static   | 20.79 Nm  |
| Max. permissible torque load Mx as a function of the stroke         | 10.25 Nm  |
| Max. useful load as a function of the stroke at defined distance xs | 149 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting            | 686 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance               | 754 N   |
| Moving mass   | 1,074 g   |
| Product weight  | 2,043 g   |
| Centre of gravity of the moving mass as a function of the stroke    | 28.2 mm   |
| alternative connections   | See product drawing   |
| Pneumatic connection  | G1/8  |
| 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   |

**FESTO**