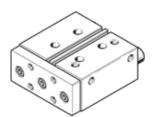
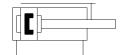
## Guide cylinder DFM-20-50-P-A-KF Part number: 170919 ★ Core product range

With integral guide.

The proximity switch, type SMTSO-8E, can be used with this product with stroke lengths equal to or greater than 50 mm. The corresponding mounting kit, type SMB-8E, is mounted inwardly or outwardly.





**FESTO** 

## **Data sheet**

| Feature   | Value  |
|---|--|
| Centre of gravity distance from working load to yoke plate          | 50 mm  |
| Stroke  | 50 mm  |
| Piston diameter   | 20 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  | 0.2 1 MPa  |
| Working pressure  | 2 10 bar   |
| Max. speed  | 0.8 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                             | 0 - No corrosion stress  |
| PWIS conformity   | VDMA24364-B1/B2-L  |
| Ambient temperature   | -5 60 °C   |
| Impact energy in end positions                                      | 0.2 Nm   |
| Max. force Fy   | 817 N  |
| Max. force Fy static  | 1,020 N  |
| Max. force Fz   | 817 N  |
| Max. force Fz static  | 1,020 N  |
| Max. torque Mx  | 23.69 Nm   |
| Max. torque Mx static   | 29.58 Nm   |
| Max. torque My  | 15.11 Nm   |
| Max. torque My static   | 18.87 Nm   |
| Max. torque Mz  | 15.11 Nm   |
| Max. torque Mz static   | 18.87 Nm   |
| Max. permissible torque load Mx as a function of the stroke         | 4.23 Nm  |
| Max. useful load as a function of the stroke at defined distance xs | 102 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting            | 141 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance               | 188 N  |
| Moving mass   | 512 g  |
| Product weight  | 1,064 g  |
| Centre of gravity of the moving mass as a function of the stroke    | 38.5 mm  |
| alternative connections   | See product drawing  |
| Pneumatic connection  | M5   |
| 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                                  |