

# guided drive DFM-16-80-P-A-KF

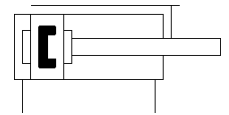
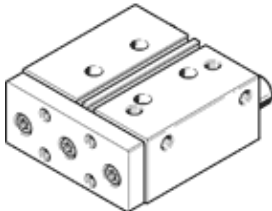
Part number: 170913

★ Core product range

FESTO

With integrated 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.



## Data sheet

| Feature                                                                 | Value                                                                       |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Centre of gravity distance from working load to yoke plate              | 50 mm                                                                       |
| Stroke                                                                  | 80 mm                                                                       |
| Piston diameter                                                         | 16 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                                                      | 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                                                     |
| Ambient temperature                                                     | -5 ... 60 °C                                                                |
| Impact energy in end positions                                          | 0.15 Nm                                                                     |
| Max. force F <sub>y</sub>                                               | 778 N                                                                       |
| Max. force F <sub>y</sub> static                                        | 830 N                                                                       |
| Max. force F <sub>z</sub>                                               | 778 N                                                                       |
| Max. force F <sub>z</sub> static                                        | 830 N                                                                       |
| Max. torque M <sub>x</sub>                                              | 17.9 Nm                                                                     |
| Max. torque M <sub>x</sub> static                                       | 19.09 Nm                                                                    |
| Max. torque M <sub>y</sub>                                              | 10.5 Nm                                                                     |
| Max. torque M <sub>y</sub> static                                       | 11.2 Nm                                                                     |
| Max. torque M <sub>z</sub>                                              | 10.5 Nm                                                                     |
| Max. torque M <sub>z</sub> static                                       | 11.2 Nm                                                                     |
| Max. permissible torque load M <sub>x</sub> as a function of the stroke | 2.03 Nm                                                                     |
| Max. useful load as a function of the stroke at defined distance xs     | 64 N                                                                        |
| Theoretical force at 6 bar, return stroke                               | 90 N                                                                        |
| Theoretical force at 6 bar, advance stroke                              | 121 N                                                                       |
| Moving mass                                                             | 359 g                                                                       |
| Product weight                                                          | 872 g                                                                       |
| Centre of gravity of the moving mass as a function of the stroke        | 47.8 mm                                                                     |
| alternative connections                                                 | See product drawing                                                         |
| Pneumatic connection                                                    | M5                                                                          |
| Materials note                                                          | Free of copper and PTFE<br>Conforms to RoHS                                 |
| Material cover                                                          | Wrought Aluminium alloy                                                     |
| Material seals                                                          | NBR                                                                         |
| Material housing                                                        | Wrought Aluminium alloy                                                     |
| Material piston rod                                                     | High alloy steel, non-corrosive                                             |