

# guided drive DFM-50-100-P-A-GF

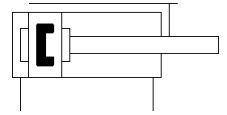
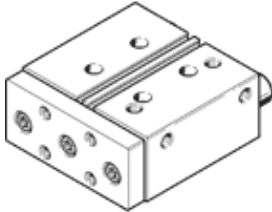
Part number: 170874

★ 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                                                              | 100 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                                                  | 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                                                    |
| Ambient temperature                                                 | -20 ... 80 °C                                                               |
| Impact energy in end positions                                      | 1 Nm                                                                        |
| Max. permissible torque load Mx as a function of the stroke         | 11.6 Nm                                                                     |
| Max. useful load as a function of the stroke at defined distance xs | 212 N                                                                       |
| Theoretical force at 6 bar, return stroke                           | 1,057 N                                                                     |
| Theoretical force at 6 bar, advance stroke                          | 1,178 N                                                                     |
| Moving mass                                                         | 2,870 g                                                                     |
| Product weight                                                      | 5,511 g                                                                     |
| alternative connections                                             | See product drawing                                                         |
| Pneumatic connection                                                | G1/4                                                                        |
| Materials note                                                      | Conforms to RoHS                                                            |
| Material cover                                                      | Wrought Aluminium alloy                                                     |
| Material seals                                                      | NBR                                                                         |
| Material housing                                                    | Wrought Aluminium alloy                                                     |
| Material piston rod                                                 | High alloy steel, non-corrosive                                             |