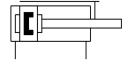
## Guided actuator DFM-16-50-P-A-KF Part number: 170912







## **Data sheet**

| Feature  | Value  |
|--|--|
| Distance of centre of gravity of payload to yoke plate xs        | 50 mm  |
| Max. static moment Mx  | 19.09 Nm   |
| Max. static moment My  | 11.2 Nm  |
| Max. permissible torque load Mx as a function of the stroke      | 2.63 Nm  |
| Max. force Fz static   | 830 N  |
| Max. force Fy static   | 830 N  |
| Center of gravity of the moving mass as a function of the stroke | 35.2 mm  |
| Max. static moment Mz  | 11.2 Nm  |
| Max. force Fy  | 778 N  |
| Max. force Fz  | 778 N  |
| Max. torque My   | 10.5 Nm  |
| Max. torque Mz   | 10.5 Nm  |
| Stroke   | 50 mm  |
| Piston diameter  | 16 mm  |
| Type code  | DFM  |
| Drive unit operating mode  | Yoke   |
| Cushioning   | Elastic cushioning rings/pads at both ends                         |
| Mounting position  | Any  |
| Guide  | Recirculating ball bearing guide                                   |
| Design   | Guide  |
| Position sensing   | For proximity sensor   |
| Symbol   | 00991737   |
| Operating pressure   | 2 bar 10 bar   |
| Max. speed   | 0.8 m/s  |
| Mode of operation  | Double-acting  |
| Operating medium   | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media                         | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)                                 | 0 - No corrosion stress  |
| Ambient temperature  | -5 ℃ 60 ℃  |
| Impact energy in the end positions                               | 0.15 J   |
| Max. torque Mx   | 17.9 Nm  |
| Max. payload as a function of the stroke at defined distance xs  | 77 N   |
| Theoretical force at 6 bar, retracting                           | 90 N   |
| Theoretical force at 6 bar, advancing                            | 121 N  |
| Moving mass  | 310 g  |
| Product weight   | 699 g  |

| Feature                 | Value                                     |
|-------------------------|---|
| Alternative connections | See product drawing                       |
| Pneumatic connection    | M5  |
| Note on materials       | RoHS-compliant<br>Free of copper and PTFE |
| Cover material          | Wrought aluminum alloy                    |
| Seals material          | NBR                                       |
| Housing material        | Wrought aluminum alloy                    |
| Piston rod material     | High-alloy stainless steel                |