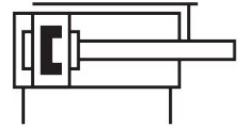


# Guided drive DFM-12-30-P-A-KF

Part number: 170902

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                                                          | Value                                                                                      |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Distance from centre of gravity of load to yoke plate xs         | 25 mm                                                                                      |
| Stroke                                                           | 30 mm                                                                                      |
| Piston diameter                                                  | 12 mm                                                                                      |
| Operating mode, drive unit                                       | Yoke                                                                                       |
| Cushioning                                                       | Elastic cushioning rings/plates at both ends                                               |
| Mounting position                                                | optional                                                                                   |
| Guide                                                            | Recirculating ball bearing guide                                                           |
| Design                                                           | Guidance                                                                                   |
| Position detection                                               | Via proximity switch                                                                       |
| Symbol                                                           | 00991737                                                                                   |
| Operating pressure                                               | 0.2 MPa ... 1 MPa                                                                          |
| Operating pressure                                               | 2 bar ... 10 bar                                                                           |
| Max. speed                                                       | 0.8 m/s                                                                                    |
| Mode of operation                                                | Double-acting                                                                              |
| Operating medium                                                 | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| Note on operating and pilot medium                               | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC                                   | 0 - No corrosion stress                                                                    |
| LABS (PWIS) conformity                                           | VDMA24364-B1/B2-L                                                                          |
| Cleanroom class                                                  | Class 6 according to ISO 14644-1                                                           |
| Ambient temperature                                              | -5 °C ... 60 °C                                                                            |
| Impact energy in end positions                                   | 0.07 J                                                                                     |
| Max. force Fy                                                    | 270 N                                                                                      |
| Max. force Fy static                                             | 355 N                                                                                      |
| Max. force Fz                                                    | 270 N                                                                                      |
| Max. force Fz static                                             | 355 N                                                                                      |
| Max. moment Mx                                                   | 5.53 Nm                                                                                    |
| Max. torque Mx static                                            | 7.28 Nm                                                                                    |
| Max. moment My                                                   | 2.43 Nm                                                                                    |
| Max. torque My static                                            | 3.2 Nm                                                                                     |
| Max. moment Mz                                                   | 2.43 Nm                                                                                    |
| Max. torque Mz static                                            | 3.2 Nm                                                                                     |
| Max. permissible torque load Mx as a function of stroke          | 0.82 Nm                                                                                    |
| Max. effective load dependent upon stroke at defined distance xs | 29 N                                                                                       |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke      | 51 N                                                                                       |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke     | 68 N                                                                                       |

| Feature                                                  | Value                      |
|----------------------------------------------------------|----------------------------|
| Moving mass                                              | 175 g                      |
| Product weight                                           | 397 g                      |
| Centre of gravity of moving mass as a function of stroke | 18.3 mm                    |
| alternative connections                                  | See product drawing        |
| Pneumatic connection                                     | M5                         |
| Note on materials                                        | RoHS-compliant             |
| Material cover                                           | Wrought aluminium alloy    |
| Material seals                                           | NBR                        |
| Material housing                                         | Wrought aluminium alloy    |
| Material piston rod                                      | High-alloy stainless steel |