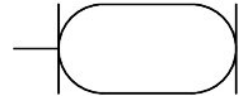


# Fluidic muscle DMSP-40-120N-RM-CM

Part number: 8114530

**FESTO**



## Data sheet

| Feature                                                        | Value                                                              |
|----------------------------------------------------------------|--------------------------------------------------------------------|
| Size                                                           | 40                                                                 |
| Diameter expansion at max. contraction                         | 80 mm                                                              |
| Stroke                                                         | 0 mm...30 mm                                                       |
| Max. contraction                                               | 25 % of nominal length                                             |
| Max. pre-tensioning                                            | 5 % of nominal length                                              |
| Nominal length                                                 | 120 mm                                                             |
| Muscle repetition accuracy                                     | <= 1% of nominal length, cyclic                                    |
| Permissible parallelism tolerance                              | ±0.5 % up to a nominal length of 400 mm                            |
| Permissible angle tolerance                                    | 1 deg                                                              |
| Mounting position                                              | Any                                                                |
| Structural design                                              | Contracting diaphragm                                              |
| Operating pressure                                             | 0 MPa...0.6 MPa<br>0 bar...6 bar                                   |
| Mode of operation                                              | Single-acting<br>Pulling                                           |
| Certification                                                  | TÜV                                                                |
| Operating medium                                               | Compressed air as per ISO 8573-1:2010 [7:...]                      |
| Information on operating and pilot media                       | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)                               | 2 - Moderate corrosion stress                                      |
| LABS (PWIS) conformity                                         | VDMA24364 Zone III                                                 |
| Ambient temperature                                            | -5 °C...60 °C                                                      |
| Maximum additional load freely suspended                       | 250 kg                                                             |
| Theoretical force Fluidic Muscle at maximum operating pressure | 6000 N                                                             |
| Theoretical force at 6 bar                                     | 6000 N                                                             |
| Pneumatic connection                                           | G3/8                                                               |
| Note on materials                                              | RoHS compliant                                                     |
| Material of flange                                             | Wrought aluminum alloy<br>Colorless anodized                       |
| Sleeve material                                                | Wrought aluminum alloy<br>Colorless anodized                       |
| Diaphragm material                                             | AR<br>Chloroprene rubber                                           |
| Nut material                                                   | Steel                                                              |

| Feature | Value      |
|---------|------------|
|         | Galvanized |