

# Compact air cylinder ADNGF-63-10-PPS-A

Part number: 574049

**FESTO**



## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Stroke                                   | 10 mm                                                              |
| Piston diameter                          | 63 mm                                                              |
| Type code                                | ADNGF                                                              |
| Based on norm                            | ISO 21287                                                          |
| Cushioning                               | Self-adjusting pneumatic end-position cushioning                   |
| Mounting position                        | Any                                                                |
| Design                                   | Piston<br>Piston rod<br>Profile barrel                             |
| Position sensing                         | For proximity sensor                                               |
| Protection against torsion/guide         | Guide rod with yoke                                                |
| Operating pressure                       | 1.4 bar ... 10 bar                                                 |
| Operating pressure                       | 0.14 MPa ... 1 MPa                                                 |
| 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)         | 2 - Moderate corrosion stress                                      |
| Ambient temperature                      | -20 °C ... 80 °C                                                   |
| Impact energy in the end positions       | 4.8 J                                                              |
| Cushioning length                        | 7 mm                                                               |
| Theoretical force at 6 bar, retracting   | 1750 N                                                             |
| Theoretical force at 6 bar, advancing    | 1870 N                                                             |
| Moving mass at 0 mm stroke               | 373 g                                                              |
| Additional weight per 10 mm stroke       | 72 g                                                               |
| Basic weight with 0 mm stroke            | 915 g                                                              |
| Additional moving mass per 10 mm stroke  | 29 g                                                               |
| Pneumatic connection                     | G1/8                                                               |
| Note on materials                        | RoHS-compliant                                                     |
| Cover material                           | Aluminum<br>Anodized                                               |
| Seals material                           | TPE-U(PUR)                                                         |
| Piston rod material                      | High-alloy steel                                                   |
| Material of cylinder barrel              | Wrought aluminum alloy<br>Smooth anodized                          |