

# Compact cylinder ADNGF-50-80-PPS-A

Part number: 574048

FESTO



 General operating condition

## Data sheet

| Feature                                  | Value  |
|--|--|
| Stroke                                   | 80 mm  |
| Piston diameter                          | 50 mm  |
| Based on norm                            | ISO 21287  |
| Cushioning                               | Self-adjusting pneumatic end-position cushioning                   |
| Mounting position                        | Any  |
| Structural design                        | Piston<br>Piston rod<br>Profile barrel                             |
| Position sensing                         | Via proximity switch   |
| Protection against torsion/guide         | Guide rod with yoke  |
| Operating pressure                       | 0.14 MPa ... 1 MPa   |
| Operating pressure                       | 1.4 bar ... 10 bar   |
| 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                                      |
| LABS (PWIS) conformity                   | VDMA24364-B1/B2-L  |
| Ambient temperature                      | -20 °C ... 80 °C   |
| Impact energy in the end positions       | 2.8 J  |
| Cushioning length                        | 6 mm   |
| Theoretical force at 6 bar, retracting   | 1057 N   |
| Theoretical force at 6 bar, advancing    | 1178 N   |
| Moving mass                              | 532 g  |
| Product weight                           | 1178 g   |
| Pneumatic connection                     | G1/8   |
| Note on materials                        | RoHS compliant   |
| Flange screws material                   | Steel  |
| Cover material                           | Wrought aluminum alloy, anodized                                   |
| Seals material                           | TPE-U(PUR)   |
| End plate material                       | Wrought aluminum alloy, anodized                                   |
| Piston rod material                      | High-alloy steel   |
| Material of cylinder barrel              | Wrought aluminum alloy, smooth-anodized                            |