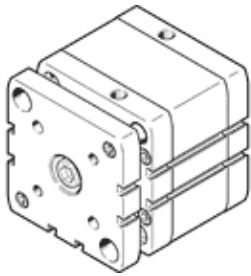


# compact cylinder ADNGF-80-50-PPS-A

Part number: 574064

FESTO



## Data sheet

| Feature                                    | Value   |
|--|---|
| Stroke                                     | 50 mm   |
| Piston diameter                            | 80 mm   |
| Based on the standard                      | ISO 21287   |
| Cushioning                                 | PPS: Self-adjusting pneumatic end-position cushioning                       |
| Assembly position                          | Any   |
| Design structure                           | Piston<br>Piston rod<br>Profile barrel                                      |
| Position detection                         | For proximity sensor  |
| Protection against torque/guide            | Guide rod with yoke   |
| Operating pressure                         | 1.4 ... 10 bar  |
| Mode of operation                          | double-acting   |
| Operating medium                           | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                    |
| Note on operating and pilot medium         | Lubricated operation possible (subsequently required for further operation) |
| Corrosion resistance classification CRC    | 2 - Moderate corrosion stress   |
| Ambient temperature                        | -20 ... 80 °C   |
| Impact energy in end positions             | 8 J   |
| Cushioning length                          | 7.5 mm  |
| Theoretical force at 6 bar, return stroke  | 2,827 N   |
| Theoretical force at 6 bar, advance stroke | 3,016 N   |
| Moving mass with 0 mm stroke               | 778 g   |
| Additional weight per 10 mm stroke         | 97 g  |
| Basic weight for 0 mm stroke               | 1,678 g   |
| Additional mass factor per 10 mm of stroke | 43 g  |
| Pneumatic connection                       | G1/8  |
| Materials note                             | Conforms to RoHS  |
| Material cover                             | Aluminium<br>Anodised   |
| Material seals                             | TPE-U(PUR)  |
| Material piston rod                        | High alloy steel  |
| Material cylinder barrel                   | Wrought Aluminium alloy<br>Smooth anodised                                  |