

# Compact cylinder ADNGF-50-20-P-A

Part number: 554261

FESTO

According to ISO 21287, with plain-bearing guide, piston rod secured against rotation by means of guide rods and yoke plate.



## Data sheet

| Feature                                    | values  |
|--|---|
| Stroke                                     | 20 mm   |
| Piston diameter                            | 50 mm   |
| Based on the standard                      | ISO 21287   |
| Cushioning                                 | P: Flexible cushioning rings/plates at both ends                            |
| 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   |
| Working pressure                           | 1 ... 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   |
| Ambient temperature                        | -20 ... 80 °C   |
| Impact energy in end positions             | 1 J   |
| Theoretical force at 6 bar, return stroke  | 1,057 N   |
| Theoretical force at 6 bar, advance stroke | 1,178 N   |
| Moving mass with 0 mm stroke               | 287 g   |
| Additional weight per 10 mm stroke         | 64 g  |
| Basic weight for 0 mm stroke               | 687 g   |
| Additional mass factor per 10 mm of stroke | 29 g  |
| Pneumatic connection                       | G1/8  |
| Materials note                             | Conforms to RoHS  |
| Materials information for cover            | Aluminum<br>Anodized  |
| Materials information for seals            | TPE-U(PUR)  |
| Materials information for piston rod       | High alloy steel  |
| Materials information for cylinder barrel  | Wrought Aluminum alloy<br>Smooth anodized                                   |