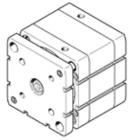
## Compact cylinder ADNGF-100-50-P-A Part number: 554292

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



## **Data sheet**

| Feature  | Value  |
|--|--|
| Stroke   | 50 mm  |
| Piston diameter  | 100 mm   |
| Based on the standard                                    | ISO 21287  |
| Cushioning   | P: Flexible cushioning rings/plates at both ends                 |
| Assembly position  | Any  |
| Design structure   | Piston   |
|  | Piston rod   |
|  | Profile barrel   |
| Position detection                                       | For proximity sensor   |
| Protection against torque/guide                          | Guide rod with yoke  |
| Operating pressure MPa                                   | 0.1 1 MPa  |
| 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 - Moderate corrosion stress                                    |
| PWIS conformity  | VDMA24364-B1/B2-L  |
| Ambient temperature                                      | -20 80 °C  |
| Impact energy in end positions                           | 2.5 J  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 4,524 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 4,712 N  |
| Moving mass with 0 mm stroke                             | 1,089 g  |
| Additional mass factor per 10 mm of stroke               | 43 g   |
| Basic weight for 0 mm stroke                             | 2,673 g  |
| Additional weight per 10 mm stroke                       | 116 g  |
| Pneumatic connection                                     | G1/8   |
| Materials note   | Conforms to RoHS   |
| Material of flange screw                                 | Steel  |
| Material cover   | Coated die-cast aluminium  |
| Material seals   | TPE-U(PUR)   |
| Material end plate                                       | Anodised wrought aluminium alloy                                 |
| Material piston rod                                      | High alloy steel   |
| Material cylinder barrel                                 | Smooth-anodised wrought aluminium alloy                          |

**FESTO**