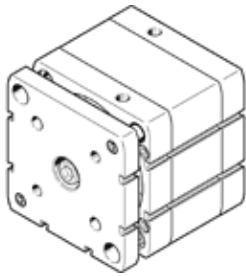


# Compact cylinder ADNGF-100-30-PPS-A

Part number: 577228

FESTO



## Data sheet

| Feature  | Value   |
|--|---|
| Stroke   | 30 mm   |
| Piston diameter  | 100 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 MPa                                   | 0.14 ... 1 MPa  |
| Working 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   |
| PWIS conformity  | VDMA24364-B1/B2-L   |
| Ambient temperature                                      | -20 ... 80 °C   |
| Impact energy in end positions                           | 2.5 J   |
| Cushioning length  | 10 mm   |
| 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                                     |