

# Compact cylinder ADN-100-50-I-PPS-A

Part number: 577196

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                                      | Value                                                                                      |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stroke                                                       | 50 mm                                                                                      |
| Piston diameter                                              | 100 mm                                                                                     |
| Piston rod thread                                            | M12                                                                                        |
| Cushioning                                                   | Self-adjusting pneumatic end-position cushioning                                           |
| Mounting position                                            | optional                                                                                   |
| Conforms to standard                                         | ISO 21287                                                                                  |
| Piston-rod end                                               | Female thread                                                                              |
| Position detection                                           | Via proximity switch                                                                       |
| Symbol                                                       | 00991217                                                                                   |
| Variants                                                     | Piston rod at one end                                                                      |
| Operating pressure                                           | 0.1 MPa ... 1 MPa                                                                          |
| Operating pressure                                           | 1 bar ... 10 bar                                                                           |
| Mode of operation                                            | Double-acting                                                                              |
| Operating medium                                             | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| Note on operating and pilot medium                           | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC                               | 2 - Moderate corrosion stress                                                              |
| LABS (PWIS) conformity                                       | VDMA24364-B1/B2-L                                                                          |
| Ambient temperature                                          | -20 °C ... 80 °C                                                                           |
| Impact energy in end positions                               | 2.5 J                                                                                      |
| Cushioning length                                            | 10 mm                                                                                      |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 4524 N                                                                                     |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 4712 N                                                                                     |
| Moving mass                                                  | 608 g                                                                                      |
| Product weight                                               | 2122 g                                                                                     |
| Type of mounting                                             | Either:<br>With through-hole<br>Via female thread<br>With accessories                      |
| Pneumatic connection                                         | G1/8                                                                                       |
| Note on materials                                            | RoHS-compliant                                                                             |
| Material collar screws                                       | Steel                                                                                      |
| Material cover                                               | Die-cast aluminium, coated                                                                 |
| Material seals                                               | TPE-U(PUR)                                                                                 |
| Material piston rod                                          | High-alloy steel                                                                           |
| Material cylinder barrel                                     | Smooth-anodised wrought aluminium alloy                                                    |