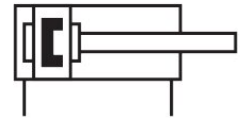


# Compact cylinder ADN-S-12-20-A-P-A

Part number: 8091429

**FESTO**



## Data sheet

| Feature                                                      | Value                                                                                      |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stroke                                                       | 20 mm                                                                                      |
| Piston diameter                                              | 12 mm                                                                                      |
| Cushioning                                                   | Elastic cushioning rings/plates at both ends                                               |
| Mounting position                                            | Any                                                                                        |
| Mode of operation                                            | Double-acting                                                                              |
| Piston-rod end                                               | Male thread                                                                                |
| Design                                                       | Piston<br>Piston rod                                                                       |
| Position detection                                           | Via proximity switch                                                                       |
| Variants                                                     | Piston rod at one end                                                                      |
| Operating pressure                                           | 0.1 MPa...1 MPa<br>1 bar...10 bar                                                          |
| 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                               | 1 - Low corrosion stress                                                                   |
| LABS (PWIS) conformity                                       | VDMA24364-B2-L                                                                             |
| Cleanroom suitability, measured according to ISO 14644-14    | Class 5 according to ISO 14644-1                                                           |
| Ambient temperature                                          | 0 °C...80 °C                                                                               |
| Impact energy in end positions                               | 0.07 J                                                                                     |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 51 N                                                                                       |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 68 N                                                                                       |
| Moving mass for 0 mm stroke                                  | 6 g                                                                                        |
| Additional moving mass per 10 mm stroke                      | 2 g                                                                                        |
| Basic weight for 0 mm stroke                                 | 33 g                                                                                       |
| Additional weight per 10 mm stroke                           | 15 g                                                                                       |
| Type of mounting                                             | Either:<br>With through-hole<br>With female thread<br>With accessories                     |
| Pneumatic connection                                         | M5                                                                                         |
| Note on materials                                            | RoHS compliant                                                                             |
| Material cover                                               | Anodised wrought aluminium alloy                                                           |

| Feature                | Value                            |
|------------------------|----------------------------------|
| Material dynamic seals | NBR<br>TPE-U(PU)                 |
| Material housing       | Anodised wrought aluminium alloy |
| Material piston rod    | High-alloy stainless steel       |