

# compact cylinder

## ADN-80-20-A-PPS-A-C

Part number: 8076231  
Product to be discontinued

FESTO

Type to be discontinued. Available until 2022. See Support Portal for alternative products.



### Data sheet

| Feature                                                  | Value                                                                              |
|----------------------------------------------------------|------------------------------------------------------------------------------------|
| Stroke                                                   | 20 mm                                                                              |
| Piston diameter                                          | 80 mm                                                                              |
| Piston rod thread                                        | M16x1,5                                                                            |
| Cushioning                                               | PPS: Self-adjusting pneumatic end-position cushioning                              |
| Assembly position                                        | Any                                                                                |
| Conforms to standard                                     | ISO 21287                                                                          |
| Piston-rod end                                           | Male thread                                                                        |
| Design structure                                         | Piston<br>Piston rod                                                               |
| Position detection                                       | For proximity sensor                                                               |
| Variants                                                 | Single-ended piston rod                                                            |
| Operating pressure MPa                                   | 0.1 ... 1 MPa                                                                      |
| Operating 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                  | 1 - Low corrosion stress                                                           |
| PWIS conformity                                          | VDMA24364-B2-L                                                                     |
| Ambient temperature                                      | -20 ... 80 °C                                                                      |
| Impact energy in end positions                           | 8 J                                                                                |
| Cushioning length                                        | 7.5 mm                                                                             |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 2,827 N                                                                            |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 3,016 N                                                                            |
| Moving mass with 0 mm stroke                             | 293 g                                                                              |
| Additional weight per 10 mm stroke                       | 114 g                                                                              |
| Basic weight for 0 mm stroke                             | 1,266 g                                                                            |
| Additional mass factor per 10 mm of stroke               | 24 g                                                                               |
| Mounting type                                            | with through hole<br>with internal (female) thread<br>with accessories<br>Optional |
| Pneumatic connection                                     | G1/8                                                                               |
| Materials note                                           | Conforms to RoHS                                                                   |
| Material cover                                           | Wrought Aluminium alloy                                                            |
| Material seals                                           | TPE-U(PUR)                                                                         |
| Material piston rod                                      | High alloy steel                                                                   |
| Material cylinder barrel                                 | Wrought Aluminium alloy<br>Smooth anodised                                         |