

# Round cylinder DSNU-5/16"-1"-P-A

Part number: 546393

**FESTO**



## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Stroke                                   | 1 in                                                               |
| Piston diameter                          | 5/16"                                                              |
| Piston rod thread                        | 6-32 UNC-2A                                                        |
| Based on norm                            | ISO 6432                                                           |
| Cushioning                               | Elastic cushioning rings/pads at both ends                         |
| Mounting position                        | Any                                                                |
| Piston rod end                           | External thread                                                    |
| Structural design                        | Piston<br>Piston rod                                               |
| Position sensing                         | Via proximity switch                                               |
| Variants                                 | Piston rod at one end                                              |
| Operating pressure                       | 0.1 MPa...1 MPa<br>1 bar...10 bar                                  |
| Mode of operation                        | Double-acting                                                      |
| Operating medium                         | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)         | 2 - Moderate corrosion stress                                      |
| LABS (PWIS) conformity                   | VDMA24364-B1/B2-L                                                  |
| Ambient temperature                      | -4 °F...176 °F                                                     |
| Impact energy in the end positions       | 0.0221 ft-lbf                                                      |
| Theoretical force at 6 bar, retracting   | 5.1 lbf                                                            |
| Theoretical force at 6 bar, advancing    | 6.8 lbf                                                            |
| Moving mass at 0 mm stroke               | 0.265 oz                                                           |
| Additional moving mass per 10 mm stroke  | 0.035 oz                                                           |
| Basic weight with 0 mm stroke            | 1.22 oz                                                            |
| Additional weight per 10 mm stroke       | 0.085 oz                                                           |
| Type of mounting                         | With accessories                                                   |
| Pneumatic connection                     | 10-32 UNF-2B                                                       |
| Cover material                           | Wrought aluminum alloy                                             |
| Seals material                           | NBR<br>TPE-U(PU)                                                   |
| Piston rod material                      | high-alloy stainless steel                                         |

| Feature                     | Value                      |
|-----------------------------|----------------------------|
| Material of cylinder barrel | high-alloy stainless steel |