

# Round cylinder DSNU-S-8-25-P-A-MQ

Part number: 5205900

**FESTO**



## Data sheet

| Feature                                                   | Value                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------|
| Stroke                                                    | 25 mm                                                              |
| Piston diameter                                           | 8 mm                                                               |
| Piston rod thread                                         | M4                                                                 |
| Cushioning                                                | Elastic cushioning rings/pads at both ends                         |
| Mounting position                                         | Any                                                                |
| Structural design                                         | Piston<br>Piston rod<br>Cylinder barrel                            |
| Position sensing                                          | Via proximity switch                                               |
| Operating pressure                                        | 0.15 MPa...1 MPa<br>1.5 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-B2-L                                                     |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 5 according to ISO 14644-1                                   |
| Ambient temperature                                       | -20 °C...80 °C                                                     |
| Impact energy in the end positions                        | 0.03 J                                                             |
| Theoretical force at 6 bar, retracting                    | 22.6 N                                                             |
| Theoretical force at 6 bar, advancing                     | 30.2 N                                                             |
| Moving mass at 0 mm stroke                                | 6.3 g                                                              |
| Additional moving mass per 10 mm stroke                   | 1 g                                                                |
| Basic weight with 0 mm stroke                             | 20 g                                                               |
| Additional weight per 10 mm stroke                        | 2.4 g                                                              |
| Type of mounting                                          | With accessories                                                   |
| Pneumatic connection                                      | M5                                                                 |
| Note on materials                                         | RoHS compliant                                                     |
| Cover material                                            | Wrought aluminum alloy, anodized                                   |
| Seals material                                            | TPE-U(PU)                                                          |
| Piston rod material                                       | high-alloy stainless steel                                         |
| Material of cylinder barrel                               | high-alloy stainless steel                                         |