

# round cylinder DSNU-3/8"-1/2"-P-A

Part number: 546399

FESTO

Based on DIN ISO 6432, for position sensing Various mounting options, with or without additional mounting components. With flexible cushioning rings in the end positions.



## Data sheet

| Feature  | Value   |
|--|---|
| Stroke   | 0.5 "   |
| Piston diameter  | 3/8"  |
| Piston rod thread  | 6-32 UNC-2A   |
| Based on the standard                                    | ISO 6432  |
| Cushioning   | P: Flexible cushioning rings/plates at both ends                            |
| Assembly position  | Any   |
| 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                  | 2 - Moderate corrosion stress   |
| PWIS conformity  | VDMA24364-B1/B2-L   |
| Ambient temperature                                      | -4 ... 176 °F   |
| Impact energy in end positions                           | 0.0369 ft-lbf   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 8.9 lbf   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 10.6 lbf  |
| Moving mass with 0 mm stroke                             | 0.3 oz  |
| Additional mass factor per 10 mm of stroke               | 0.035 oz  |
| Basic weight for 0 mm stroke                             | 1.316 oz  |
| Additional weight per 10 mm stroke                       | 0.095 oz  |
| Mounting type  | with accessories  |
| Pneumatic connection                                     | 10-32 UNF-2B  |
| Material cover   | Wrought Aluminium alloy   |
| Material seals   | NBR<br>TPE-U(PU)  |
| Material piston rod                                      | High alloy steel, non-corrosive   |
| Material cylinder barrel                                 | High alloy steel, non-corrosive   |