

Standards-based cylinder DSBC-...-40- -F1A-

Part number: 8150688

FESTO



Data sheet

| Feature | Value |
|--|---|
| Stroke | 1 mm...2800 mm |
| Piston diameter | 40 mm |
| Piston rod thread | M8 M12x1.25 |
| Cushioning | Elastic cushioning rings/pads at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends |
| Mounting position | Any |
| Conforms to standard | ISO 15552 |
| Piston rod end | External thread Internal thread |
| Structural design | Piston Piston rod Profile barrel |
| Position sensing | For proximity sensor |
| Variants | Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Extended external thread piston rod Internal thread on piston rod Extended piston rod Through piston rod Sensor slots on 3 profile sides Piston rod at one end |
| Operating pressure | 0.06 MPa...1.2 MPa 0.6 bar...12 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-C1-L |
| Suitability for the production of Li-ion batteries | Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils |

| Feature | Value |
|--|---|
| Cleanroom class | Class 6 according to ISO 14644-1 |
| Ambient temperature | -20 °C...80 °C |
| Impact energy in the end positions | 0.7 J |
| Cushioning length | 19 mm |
| Theoretical force at 6 bar, retracting | 633 N |
| Theoretical force at 6 bar, advancing | 754 N |
| Weight surcharge per 10 mm piston rod extension | 16 g |
| Weight surcharge per 10 mm piston rod thread extension | 8 g |
| Type of mounting | With internal thread With accessories Optionally: |
| Pneumatic connection | G1/4 |
| Note on materials | RoHS-compliant |
| Cover material | Die-cast aluminum, coated |
| Piston seal material | TPE-U(PU) |
| Material of piston | Wrought aluminum alloy |
| Piston rod material | High-alloy steel |
| Piston rod wiper material | TPE-U(PU) |
| Buffer seal material | TPE-U(PU) |
| Cushion piston material | POM |
| Material of cylinder barrel | Wrought aluminum alloy, smooth-anodized |
| Nut material | Steel, nickel-plated |
| Material of bearing | POM |
| Flange screws material | Steel, nickel-plated |