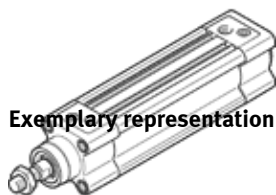


standards-based cylinder

DSBC-...-40- -F1A-

Part number: 8150688

FESTO



Exemplary representation

Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|--|---|
| Stroke | 1 ... 2,800 mm |
| Piston diameter | 40 mm |
| Piston rod thread | M8 M12x1,25 |
| Cushioning | P: Flexible cushioning rings/plates at both ends PPS: Self-adjusting pneumatic end-position cushioning PPV: Pneumatic cushioning adjustable at both ends |
| Assembly position | Any |
| Conforms to standard | ISO 15552 |
| Piston-rod end | Male thread Female thread |
| Design structure | Piston Piston rod Profile barrel |
| Position detection | For proximity sensor |
| Variants | Extended male piston rod thread Female thread on piston rod Extended piston rod Through piston rod Sensor slots on 3 profile sides Single-ended piston rod Recommended for production facilities for the manufacture of lithium-ion batteries |
| Operating pressure MPa | 0.06 ... 1.2 MPa |
| Operating pressure | 0.6 ... 12 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-C1-L |
| RSBP classification to CD-0033 | F1a |
| Cleanroom class | ISO class 6 |
| Ambient temperature | -20 ... 80 °C |
| Impact energy in end positions | 0.7 J |
| Cushioning length | 19 mm |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 633 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance | 754 N |
| Additional weight per piston rod extension of 10 mm | 16 g |
| Additional weight per piston rod thread extension of 10 mm | 8 g |
| Mounting type | with internal (female) thread with accessories Optional |
| Pneumatic connection | G1/4 |

| Feature | Value |
|--------------------------------|---|
| Materials note | Conforms to RoHS |
| Material cover | Die-cast aluminium, coated |
| Material piston seal | TPE-U(PU) |
| Material piston | Wrought Aluminium alloy |
| Material piston rod | High alloy steel |
| Material piston rod wiper seal | TPE-U(PU) |
| Buffer seal material | TPE-U(PU) |
| Cushion piston material | POM |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |
| Material nut | Steel, chemical nickel-plated |
| Material bearing | POM |
| Material of flange screw | Steel, chemically nickel-plated |