

# Compact cylinder AEN-S-50-10-I-P

Part number: 5137801

FESTO



 General operating condition

## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 10 mm  |
| Piston diameter  | 50 mm  |
| Cushioning   | Elastic cushioning rings/plates at both ends   |
| Mounting position  | Any  |
| Mode of operation  | Pushing  |
| Piston-rod end   | Female thread  |
| Design   | Piston<br>Piston rod   |
| Symbol   | 00991729   |
| Variants   | Additional PTFE piston guide   |
| Operating pressure   | 0.1 MPa ... 1 MPa  |
| Operating pressure   | 1 bar ... 10 bar   |
| Operating pressure   | 14.5 psi ... 145 psi   |
| Operating medium   | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Note on operating and pilot medium                           | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC                               | 1 - Low 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  | 0 °C ... 80 °C   |
| Impact energy in end positions                               | 0.6 J  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 66.2 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 1178 N   |
| Moving mass for 0 mm stroke                                  | 105 g  |
| Additional moving mass per 10 mm stroke                      | 16 g   |
| Basic weight for 0 mm stroke                                 | 310 g  |
| Additional weight per 10 mm stroke                           | 63 g   |
| Type of mounting   | Either:<br>With through-hole<br>With female thread<br>With accessories                     |
| Pneumatic connection   | G1/8   |
| Note on materials  | RoHS compliant   |
| Material cover   | Anodised wrought aluminium alloy   |
| Material dynamic seals                                       | NBR  |
| Material housing   | Anodised wrought aluminium alloy   |
| Material piston rod  | High-alloy stainless steel   |