

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

Part number: 8092155

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                                               | Male 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                                                                 |