

# Short-stroke cylinder ADVC-80-20-I-P

Part number: 188314

FESTO



 General operating condition

## Data sheet

| Feature                                                      | Value                                                                                      |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stroke                                                       | 20 mm                                                                                      |
| Piston diameter                                              | 80 mm                                                                                      |
| Based on standard                                            | ISO 6431<br>Hole pattern<br>VDMA 24562                                                     |
| Cushioning                                                   | Elastic cushioning rings/plates at both ends                                               |
| Mounting position                                            | optional                                                                                   |
| Mode of operation                                            | Double-acting                                                                              |
| Design                                                       | Piston<br>Piston rod                                                                       |
| Position detection                                           | Without                                                                                    |
| Symbol                                                       | 00991227                                                                                   |
| 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-B1/B2-L                                                                          |
| Ambient temperature                                          | -20 °C ... 80 °C                                                                           |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 2827 N                                                                                     |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 3016 N                                                                                     |
| Moving mass                                                  | 351 g                                                                                      |
| Moving mass for 0 mm stroke                                  | 315 g                                                                                      |
| Additional moving mass per 10 mm stroke                      | 24 g                                                                                       |
| Product weight                                               | 1152 g                                                                                     |
| Basic weight for 0 mm stroke                                 | 994 g                                                                                      |
| Additional weight per 10 mm stroke                           | 112 g                                                                                      |
| Type of mounting                                             | Either:<br>With through-hole<br>With accessories                                           |
| Pneumatic connection                                         | G1/8                                                                                       |
| Note on materials                                            | RoHS-compliant                                                                             |
| Material cover                                               | Wrought aluminium alloy<br>Anodised                                                        |
| Material seals                                               | NBR<br>TPE-U(PU)                                                                           |

| Feature             | Value            |
|---------------------|------------------|
| Material housing    | Anodised         |
| Material piston rod | High-alloy steel |