

# Suction cup with connection ESS-20-CS

Part number: 189401

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                                     | Value  |
|---|--|
| Height compensator for suction cup          | 7 mm   |
| Min. workpiece radius                       | 50 mm  |
| Nominal size                                | 3 mm   |
| Suction cup diameter                        | 20 mm  |
| Suction cup volume                          | 2.75 cm <sup>3</sup>                                       |
| Position of connection                      | Top  |
| Mounting position                           | optional   |
| Symbol                                      | 00991485   |
| Correlation to suction-cup holder           | Size 4   |
| Suction cup shape                           | Round bellows 3.5 convolutions                             |
| Operating pressure                          | -0.095 MPa ... 0 MPa                                       |
| Operating pressure                          | -0.95 bar ... 0 bar  |
| Operating pressure                          | -13.775 psi ... 0 psi                                      |
| Nominal operating pressure                  | -0.07 MPa  |
| Nominal operating pressure                  | -0.7 bar   |
| Nominal operating pressure                  | -10.15 psi   |
| Operating medium                            | Atmospheric air based on ISO 8573-1:2010 [7::-]            |
| Corrosion resistance class CRC              | 1 - Low corrosion stress                                   |
| LABS (PWIS) conformity                      | VDMA24364 zone III   |
| Suitable for use with food                  | See supplementary material information                     |
| Ambient temperature                         | -30 °C ... 180 °C  |
| Holding force at nominal operating pressure | 8.2 N  |
| Lateral force at nominal operating pressure | 7 N  |
| Product weight                              | 6.9 g  |
| Type of mounting                            | Via vacuum port  |
| Vacuum connection                           | M6   |
| Colour                                      | Transparent  |
| Shore hardness                              | 50 +/- 5   |
| Material screwed plug                       | Nickel-plated brass<br>Steel, galvanised and chrome-plated |
| Note on materials                           | RoHS-compliant   |

| Feature              | Value          |
|----------------------|----------------|
| Material suction cup | VMQ (silicone) |