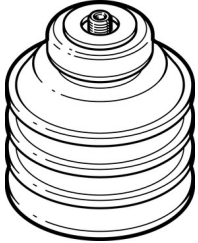



# Vacuum suction cup

## ESS-50-CS

Part number: 189407

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                     | Value  |
|---|--|
| Suction cup height compensation             | 17.5 mm  |
| Min. workpiece radius                       | 180 mm   |
| Nominal width                               | 3 mm   |
| Suction cup diameter                        | 50 mm  |
| Suction cup volume                          | 38.92 cm <sup>3</sup>                            |
| Connection position                         | Top  |
| Mounting position                           | Any  |
| Symbol                                      | 00991485   |
| Classification of 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                               |
| For use in the food industry                | See supplementary material information           |
| Ambient temperature                         | -30 °C ... 180 °C                                |
| Holding force at nominal operating pressure | 63.4 N   |
| Lateral force at nominal operating pressure | 45.5 N   |
| Product weight                              | 32.1 g   |
| Type of mounting                            | Via vacuum connection                            |
| Vacuum connection                           | M6   |
| Color                                       | Transparent                                      |
| Shore hardness                              | 50 +/- 5   |

| Feature                  | Value  |
|--------------------------|--|
| Material of screwed plug | Wrought aluminum alloy, nickel-plated<br>Brass, nickel-plated<br>Steel, galvanized and chrome-plated |
| Note on materials        | RoHS-compliant   |
| Suction cup material     | VMQ (silicone)   |