

# Vacuum suction cup ESS-50-BS

Part number: 189392

**FESTO**



 General operating condition

## Data sheet

| Feature                                     | Value                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------------|
| Suction cup height compensation             | 11 mm                                                                                                |
| Min. workpiece radius                       | 150 mm                                                                                               |
| Nominal width                               | 3 mm                                                                                                 |
| Suction cup diameter                        | 50 mm                                                                                                |
| Suction cup volume                          | 14.23 cm <sup>3</sup>                                                                                |
| Connection position                         | Top                                                                                                  |
| Mounting position                           | Any                                                                                                  |
| Symbol                                      | 00991485                                                                                             |
| Classification of suction cup holder        | Size 4                                                                                               |
| Suction cup shape                           | Round bellows, 1.5 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 | 72.6 N                                                                                               |
| Lateral force at nominal operating pressure | 38 N                                                                                                 |
| Product weight                              | 24.7 g                                                                                               |
| Type of mounting                            | Via vacuum connection                                                                                |
| Vacuum connection                           | M6                                                                                                   |
| Color                                       | Transparent                                                                                          |
| Shore hardness                              | 50 +/- 5                                                                                             |
| 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)                                                                                       |