

# Vacuum suction cup ESS-20-CN

Part number: 189400

FESTO



## Data sheet

[PDF](#) General operating condition

| Feature                                     | Value                                                       |
|---------------------------------------------|-------------------------------------------------------------|
| Suction cup height compensation             | 7 mm                                                        |
| Min. workpiece radius                       | 50 mm                                                       |
| Nominal width                               | 3 mm                                                        |
| Suction cup diameter                        | 20 mm                                                       |
| Suction cup volume                          | 2.75 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-A1-L                                              |
| For use in the food industry                | See supplementary material information                      |
| Ambient temperature                         | -10 °C ... 70 °C                                            |
| Holding force at nominal operating pressure | 8.2 N                                                       |
| Lateral force at nominal operating pressure | 6.5 N                                                       |
| Product weight                              | 6.9 g                                                       |
| Type of mounting                            | Via vacuum connection                                       |
| Vacuum connection                           | M6                                                          |
| Color                                       | Black                                                       |
| Shore hardness                              | 50 +/- 5                                                    |
| Material of screwed plug                    | Brass, nickel-plated<br>Steel, galvanized and chrome-plated |
| Note on materials                           | RoHS-compliant                                              |

| Feature              | Value |
|----------------------|-------|
| Suction cup material | NBR   |