

# piSOFTGRIP® 5-3 SG.S53DS70.SDS70.F.G38M.00



- ▶ Cost effective, vacuum-driven soft gripping solution.
- ▶ Suitable for sensitive and lightweight objects of odd geometries and/or an unusual surface.
- ▶ Robust and simple design.
- ▶ As easy to mount and control as a suction cup.
- ▶ Easy controlled pinch force (by adjusting vacuum level).
- ▶ Adding little extra weight to application.
- ▶ Small size.
- ▶ The silicone material is detectable and approved for direct contact with food (in accordance with FDA 21 CFR and EU 1935/2004 regulations).
- ▶ The same fitting can be used for both piSOFTGRIP® and piGRIP®.

## Pinch force (object diameter 35mm)

| Description  | 20 -kpa | 40 -kpa | 60 -kpa |
|--------------|---------|---------|---------|
| Pinch forces | 0,6 N   | 2,1 N   | 3,3 N   |

## Technical data

| Description                     | Unit            | Value |
|---------------------------------|-----------------|-------|
| Recommended maximum object size | mm              | 62    |
| Recommended maximum payload     | g               | 250   |
| Number of fingers               | -               | 3     |
| Gripping area / finger          | mm <sup>2</sup> | 167   |
| Recommended vacuum level        | -kPa            | 20-60 |
| Weight                          | g               | 56    |
| Internal volume                 | cm <sup>3</sup> | 20.1  |

## Material specification

| Description | Material | Colour      | Temperature range | ShoreA | Detectable |
|-------------|----------|-------------|-------------------|--------|------------|
| Claw        | Silicone | Blue        | -40-200 °C        | 70°    | Yes        |
| Support     | TPE      | Transparent | -20-60/100* °C    | 80°    | No         |
| Fitting     | Al, NBR  | Black       | -20-90 °C         | -      | No         |

\*Max. temperature short term contact, <10 seconds and 50% intermittence, ambient temperature 15-30° C [59-86°F], mechanical properties will start to degrade.

### Fitting specification

| Description    | Value     |
|----------------|-----------|
| Fitting size   | 3/8"      |
| Fitting style  | Male      |
| Fitting type   | G-Thread  |
| Fitting option | No Option |

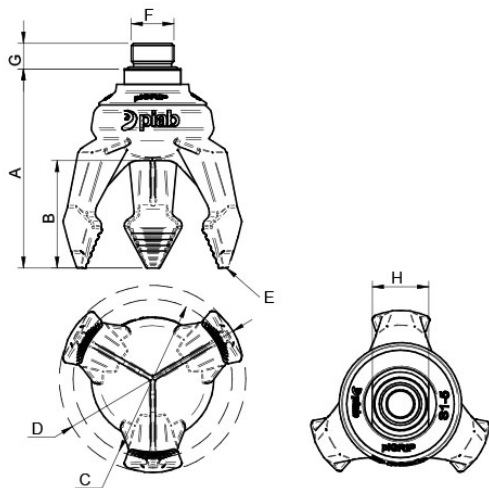
### Material resistance – Silicone, SIL

| Description        | Value     |
|--------------------|-----------|
| Alcohol            | Good      |
| Concentrated Acids | Poor      |
| Ethanol            | N/A       |
| Hydrolysis         | Good      |
| Methanol           | N/A       |
| Oil                | Fair      |
| Oxidation          | Excellent |
| Petrol             | Fair      |
| Wear Resistance    | Excellent |
| Weather & Ozone    | Excellent |

#### Values specified in data sheet are tested at:

- Room temperature (20°C [68°F] ± 3°C [5.5°F]).
- Standard atmosphere (101.3 [29.9 inHg] ± 1.0 kPa [0.3 inHg]).
- Relative humidity 20-70%.
- Compressed air quality, DIN ISO 8573-1 class 4.

### Dimensional drawing



| Product code | Description                         | Unit      | Value       |
|--------------|-------------------------------------|-----------|-------------|
| A            | Building height (including fitting) | mm [inch] | 78.0 [3.07] |
| B            | Depth                               | mm [inch] | 42 [1.65]   |
| C            | Inner diameter                      | mm [inch] | 62 [2.44]   |
| D            | Max diameter of softgripper         | mm [inch] | 73 [2.87]   |
| E            | Number of fingers                   | -         | 3           |
| F            | Thread                              | -         | G3/8"       |
| G            | Thread/insert length                | mm [inch] | 10 [0.39]   |
| H            | Key grip                            | mm        | SW 22       |

### Ordering information

| Description  | Product code               |
|--|----------------------------|
| SG, Solid, size 5, 3 fingers, Detectable Silicone 70° Shore A, Short, Detectable Silicone 70° Shore A, G-Thread, 3/8", Male, No Option | SG.S53DS70.SDS70.F.G38M.00 |

### Ordering information, spare parts

| Description       | Art. No |
|-------------------|---------|
| piSOFTGRIP 5-3 DS | 0216632 |