

# piGRIP®



- Configurable suction cup with recyclable parts. The different hardness makes the suction cup stable and at the same time soft and flexible.
- Durable and long lasting material with higher lifting capacity compared to similar conventional cups.
- Suitable for surface leaking (textured/wrinkled) and porous materials such as corrugated cardboard.
- Suitable for level adjustment and for uneven surfaces with a small pick-up radius.
- Mesh filter integrated in the fitting keeps particles away from Vacuum Generator/Pump.

## Lifting force

| Description    | Vertical |          | Parallel |          |
|----------------|----------|----------|----------|----------|
|                | 12 -inHg | 18 -inHg | 12 -inHg | 18 -inHg |
| Lifting forces | 3.35 lbf | 4.79 lbf | 1.66 lbf | 2.41 lbf |

## Technical data

| Description               | Unit            | Value  |
|---------------------------|-----------------|--------|
| Max. vertical movement    | in              | 0.56   |
| Internal volume           | in <sup>3</sup> | 0.37   |
| Weight                    | oz              | 0.311  |
| Min. curve radius -60 kPa | in              | 0.59   |
| Removal efficiency        | µm              | Coarse |

## Material specification

| Description | Material    | Colour | Hardness °Shore A | Temperature range (°F) |
|-------------|-------------|--------|-------------------|------------------------|
| Lip         | TPE         | Blue   | 50                | -40-140/212*           |
| Bellow      | TPE         | Lime   | 87                | -4-140/212*            |
| Support     | TPE         | Lime   | 87                | -4-140/212*            |
| Fitting     | Al, NBR, SS | -      | -                 | -4-194                 |

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

## Material resistance

| Description | FDA approved | PWIS free | Wear resistance | Oil       | Weather & ozone |
|-------------|--------------|-----------|-----------------|-----------|-----------------|
| Lip         | Yes          | No        | Fair            | Poor      | Excellent       |
| Bellow      | No           | Yes       | Excellent       | Excellent | Excellent       |
| Support     | No           | Yes       | Excellent       | Excellent | Excellent       |

| Description | Hydrolysis | Petrol | Concentrated acids | Alcohol   | Oxidation |
|-------------|------------|--------|--------------------|-----------|-----------|
| Lip         | Poor       | Poor   | Poor               | Excellent | Good      |
| Bellow      | Fair       | Poor   | Poor               | Good      | Good      |
| Support     | Fair       | Poor   | Poor               | Good      | Good      |

Values specified in this data sheet are tested at (unless otherwise stated):

- 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



| Description                  | Unit | Value     |
|------------------------------|------|-----------|
| Building height              | in   | 1.39      |
| Building height (no fitting) | in   | 1.19      |
| Diameter (lip)               | in   | 1.10      |
| Wrench key (fitting)         | in   | SW 11/16" |

## Ordering information – Current configuration

| Description piGRIP®       | Product code G.FX28T50.B3.S1.G18M.01 |
|---------------------------|--------------------------------------|
| Lip type                  | Flexible lip                         |
| Lip size                  | Ø 28mm                               |
| Lip material and hardness | TPE 50° Shore A, Blue                |
| Bellow                    | Bellows 3 folds                      |
| Support                   | Support S1                           |
| Fitting type              | G-Thread                             |
| Fitting size              | 1/8"                                 |
| Fitting style             | Male                                 |
| Options                   | Filter Mesh                          |
| Additional function       | None                                 |

## Ordering information, spare parts

| Description                          | Art. No. |
|--------------------------------------|----------|
| Ø 28 mm Flexible lip,TPE 50° Shore A | 0123986  |