

piGRIP® G.FX77T30.B1.S1.G38M.16



- ▶ 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. The 30 shore lip has extra good sealing capability.
- ▶ Suitable for level adjustment and to separate thin objects.
- ▶ Disc: Low micron filter disc inside the cup for fine filtration, keeps dust and small particles away from Vacuum Generator/Pump.
- ▶ Suitable for handling a different number of leaking objects such as corrugated cardboard and MDF board, etc. The vacuum level will be held in the system even if a few cups miss the object.

Lifting force

| Description | Vertical | | Parallel | |
|----------------|----------|---------|----------|---------|
| | 40 -kPa | 60 -kPa | 40 -kPa | 60 -kPa |
| Lifting forces | 107.0 N | 150.4 N | 53.5 N | 75.2 N |

Technical data

| Description | Unit | Value |
|------------------------------|-----------------|------------------|
| Max. vertical movement | mm | 16.3 |
| Internal volume | cm ³ | 44.8 |
| Weight | g | 70.4 |
| Min. Curve radius -60 kPa | mm | 55 |
| Removal efficiency | µm | 40 |
| Pump flow/cup to close valve | l/s | 0.37 (@ 3 -kPa) |
| Pump flow/cup minimum | l/s | 0.06 (@ 45 -kPa) |

Material specification

| Description | Material | Colour | Hardness °Shore A | Temperature range (°C) |
|-------------|-----------|--------|-------------------|------------------------|
| Lip | TPE | Yellow | 30 | -40-60/100* |
| Bellow | TPE | Lime | 87 | -20-60/100* |
| Support | TPE | Lime | 87 | -20-60/100* |
| Fitting | Al, NBR | - | - | -20-90 |
| Sense | TPE, HNBR | Green | - | -20-80 |

*Max. Temperature short term contact, <10 seconds and 50% intermittence, ambient temperature 15-30°C, 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 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



| Description | Unit | Value |
|------------------------------|------|-------|
| Building height | mm | 47.0 |
| Building height (no fitting) | mm | 41.0 |
| Diameter (lip) | mm | 77 |
| Wrench key (fitting) | mm | SW 22 |

Ordering information

| Description | Product code |
|---|-------------------------|
| piGRIP®, Ø 77 mm Flexible lip, TPE 30° Shore A, Yellow, Bellows 1 fold, Support S1, G-Thread, 3/8", Male, piSAVE sense 03/60, C. flow 0,37 NI/s and filter disc, None | G.FX77T30.B1.S1.G38M.16 |

Ordering information, spare parts

| Description | Art. No. |
|---------------------------------------|----------|
| Ø 77 mm Flexible lip, TPE 30° Shore A | 0121993 |
| Filter disc 7, Kit 10 pcs | 0200999 |