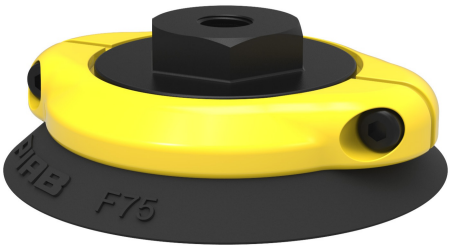
# Datasheet

# Suction cup F75 Nitrile-PVC, 1/8" NPSF female, with mesh filter

**Article number: 0101873**




- Suitable for flat objects.
- Good stability and little inherent movement.
- Recommended when the lifting force is parallel to the surface of the object.
- Cleats prevent thin, sensitive objects from being deformed and gives extra friction when the lifting force is parallel.

## Technical data

| Description | Unit | Value |
|---|---|---|
| Suction cup shape | - | Flat |
| Application | - | Dry sheet metal |
| Suction cup design | - | Round |
| Characteristics | - | Dry sheet metal |
| Material | - | Nitrile-PVC (NPV) |
| Weight, min. | g | 23 |
| Suction cup model | - | F |
| Volume | $cm^3$ | 20 |
| Outer diameter, min. | mm | 77 |
| Outer diameter, actuated | mm | 79 |
| Fitting size | - | 1/8" |
| Fitting option | - | Filter mesh |
| Fitting style | - | Female |
| Fitting type | - | NPSF-thread |
| Suction cup model | - | F75 |
| Movement, vertical max. | mm | 3 |
| Curve radius, min. | mm | 150 |

## Performance - Lifting forces

| F75 | Vertical (N) | Parallel (N) |
|---|---|---|
| 20 -kPa | 80 | 60 |
| 60 -kPa | 200 | 110 |
| 90 -kPa | 270 | 140 |

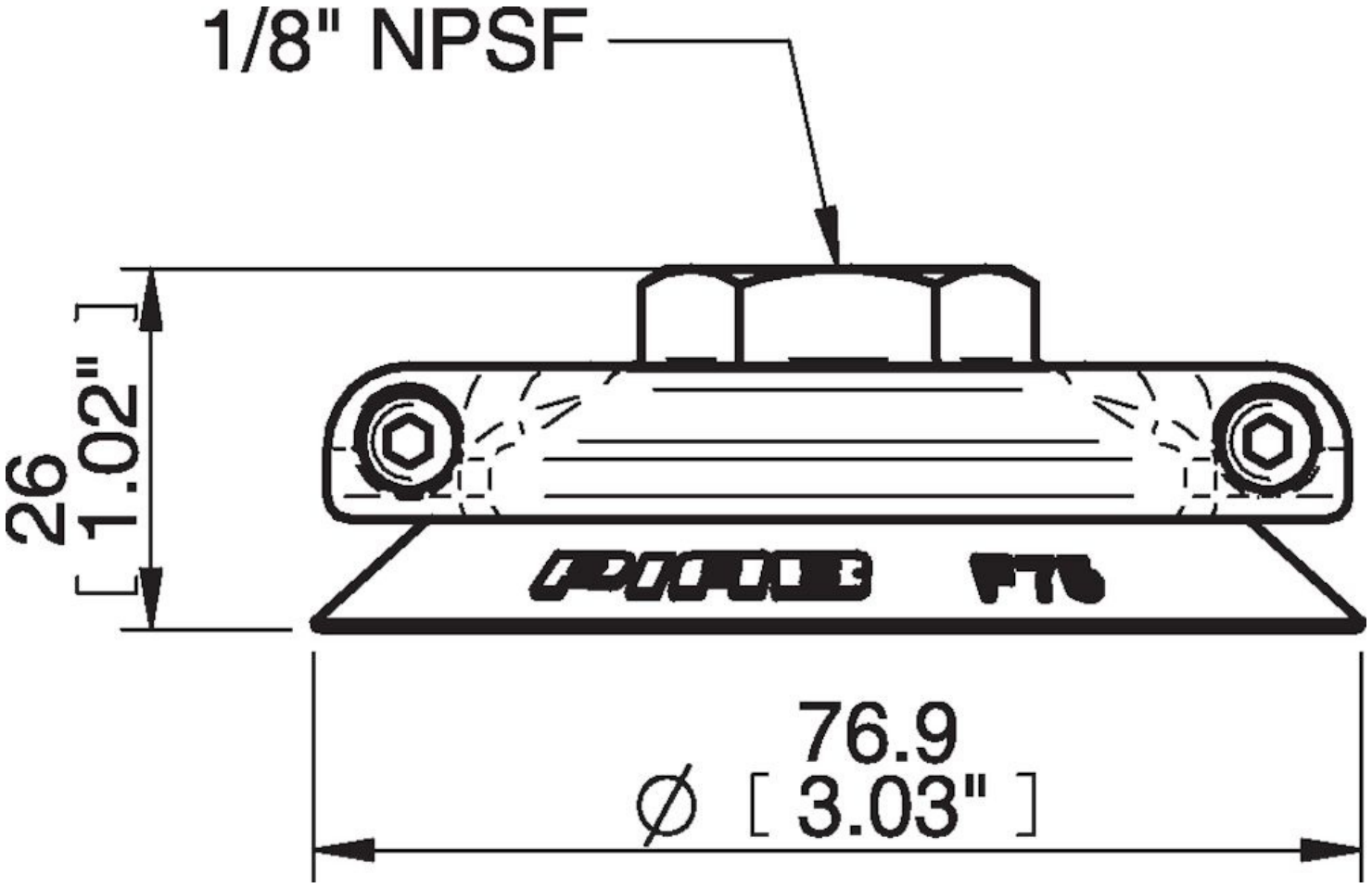
**Material**

| | |
|---|---|
| Name | Nitrile-PVC (NPV) |
| Colour | Black |
| Temperature, min. \| °C | 0 |
| Temperature max. \| °C | 90 |
| Hardness \| °Shore A | 50 |

**Material resistance**

| | |
|---|---|
| Alcohol | Good |
| Concentrated acids | Fair |
| Ethanol | n/a |
| Hydrolysis | Good |
| Methanol | n/a |
| Oil | Excellent |
| Oxidation | Good |
| Petrol | Excellent |
| Wear resistance | Excellent |
| Weather and ozone | Good |

**Dimensional drawings**




**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.

**Accessories**
0100551 | Fitting 75, G3/8" female, with mesh filter
0100552 | Fitting 75, G3/8" female, with cone valve
0100553 | Fitting 75, 3/8" NPSF female, with mesh filter
0100555 | Fitting 75, G1/2" female, with mesh filter
0100556 | Fitting 75, G1/2" female, with cone valve
0127819 | Fitting 1/8" NPSF female Al, with mesh filter
0127820 | Fitting G1/2" female Al, with mesh filter
0127821 | Fitting 1/4" NPT female Al, with mesh filter & 10-32 addl. conn.
3150131S | Suction cup F75 Silicone
3150131T | Suction cup F75 HNBR

**Spare parts**
0100548 | Fitting 75, 1/8" NPSF female, with mesh filter
3150131P | Suction cup F75 Nitrile-PVC