

Suction cup FC75P Polyurethane 40, thread insert G3/8" with mesh filter for Vacuum Gripper System (VGS)

Item number: FC75P.5C.G40M



- Suitable for slightly domed and flat and oily surfaces, e.g., such as those encountered when handling steel sheets in press processes.
- Thanks to the high friction of the rubber material, the suction cups can withstand high forces at rapid accelerations in horizontal directions, even on oily surfaces.
- The suction cups have cleats that prevent thin objects from being disfigured.
- DURAFLEX® material features the elasticity of rubber in combination with the wear resistance of polyurethane.
- The DURAFLEX® material is mark-free.

Technical data

| Description | Unit | Value |
|-------------------------|-----------------|----------------------------|
| Suction cup shape | - | Flat Concave |
| Application | - | Dry sheet metal, Mark Free |
| Suction cup design | - | Round |
| Characteristics | - | Dry sheet metal, Mark free |
| Material | - | Polyurethane (PU) |
| Weight, min. | oz | 1.59 |
| Suction cup model | - | FC |
| Volume | in ³ | 1.83 |
| Height | in | 1.34 |
| Outer diameter, min. | in | 2.95 |
| Fitting size | - | 3/8" |
| Fitting option | - | Filter mesh |
| Fitting style | - | Male |
| Fitting type | - | G-thread |
| Suction cup model | - | FC75P PU40 |
| Movement, vertical max. | in | 0.32 |
| Curve radius, min. | in | 3.071 |

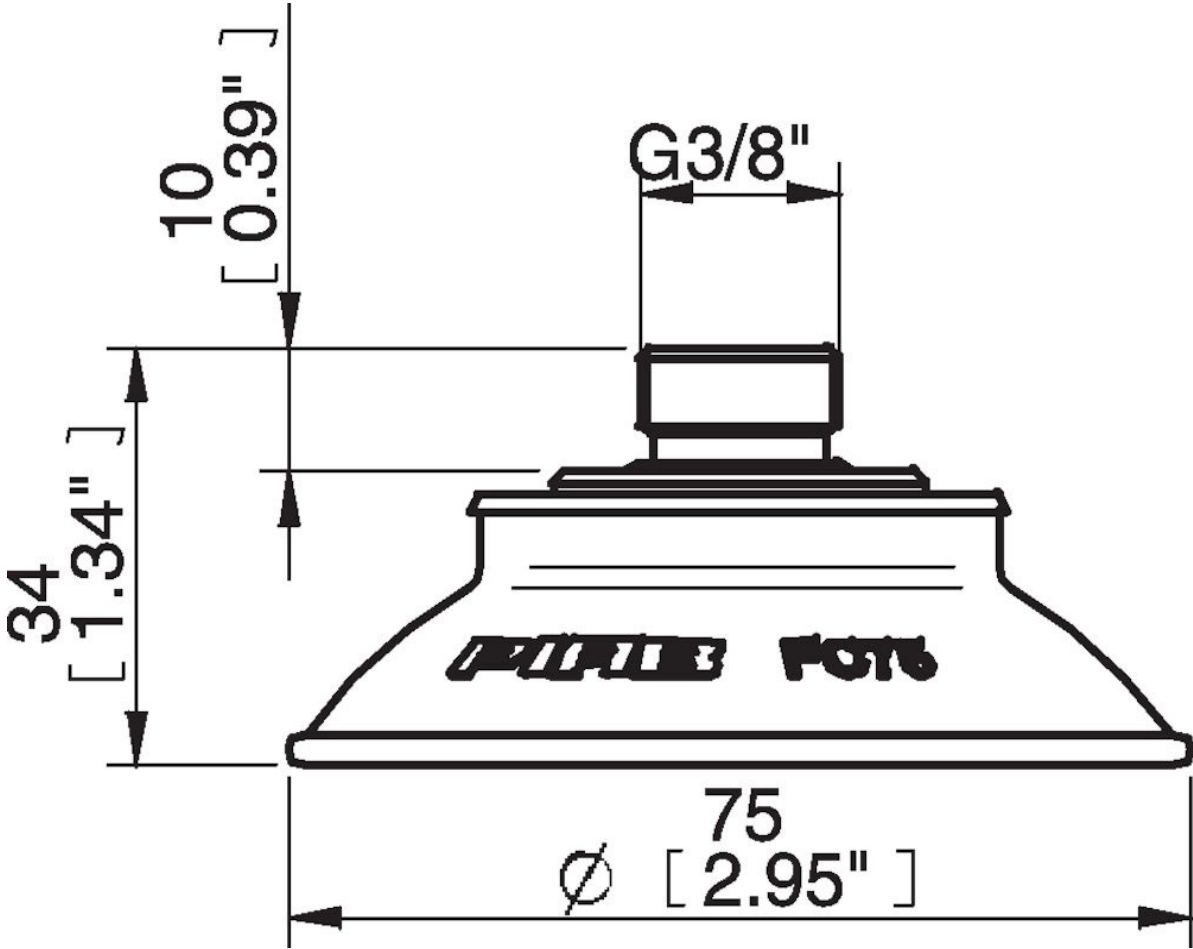
Performance - Lifting forces

| FC75P PU40 | Vertical (lb) | Parallel (lb) |
|-------------|---------------|---------------|
| 5.91 -inHg | 16.41 | 24.055 |
| 17.72 -inHg | 35.30 | 44.96 |
| 26.58 -inHg | 48.33 | 51.71 |

| Material | |
|------------------------|---------------------|
| Name | Polyurethane (PU40) |
| Color | Red transparent |
| Temperature, min. °F | 50.0 |
| Temperature max. °F | 122.0 |
| Hardness °Shore A | 40 |

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

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.

Spare parts

01.06.948 | Suction cup FC75P Polyurethane 40, for tread insert
01 07 148 | Thread insert G3/8" male, with O-ring and mesh filter for Vacuum Gripper System (VGS)