

# Datasheet

## Suction cup F75P Polyurethane 60 with collar for Vacuum Gripper System (VGS)

Item number: F75P.5E



- Suitable for flat and rough surfaces.
- Fair stability and little inherent movement.
- Recommended when the lifting force is parallel to the surface of the object.
- Dual hardness allowing strength and stability in conjunction with softness and flexibility.
- 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                       |
| Application              | -               | Dry sheet metal, Mark Free |
| Suction cup design       | -               | Round                      |
| Characteristics          | -               | Dry sheet metal, Mark free |
| Material                 | -               | Polyurethane (PU)          |
| Weight, min.             | oz              | 1.87                       |
| Suction cup model        | -               | F                          |
| Volume                   | in <sup>3</sup> | 1.16                       |
| Height                   | in              | 0.57                       |
| Outer diameter, min.     | in              | 3.031                      |
| Outer diameter, actuated | in              | 3.15                       |
| Fitting size             | -               | None                       |
| Fitting option           | -               | None                       |
| Fitting style            | -               | None                       |
| Fitting type             | -               | None                       |
| Suction cup model        | -               | F75P PU60                  |
| Movement, vertical max.  | in              | 0.079                      |
| Curve radius, min.       | in              | 5.91                       |

### Performance - Lifting forces

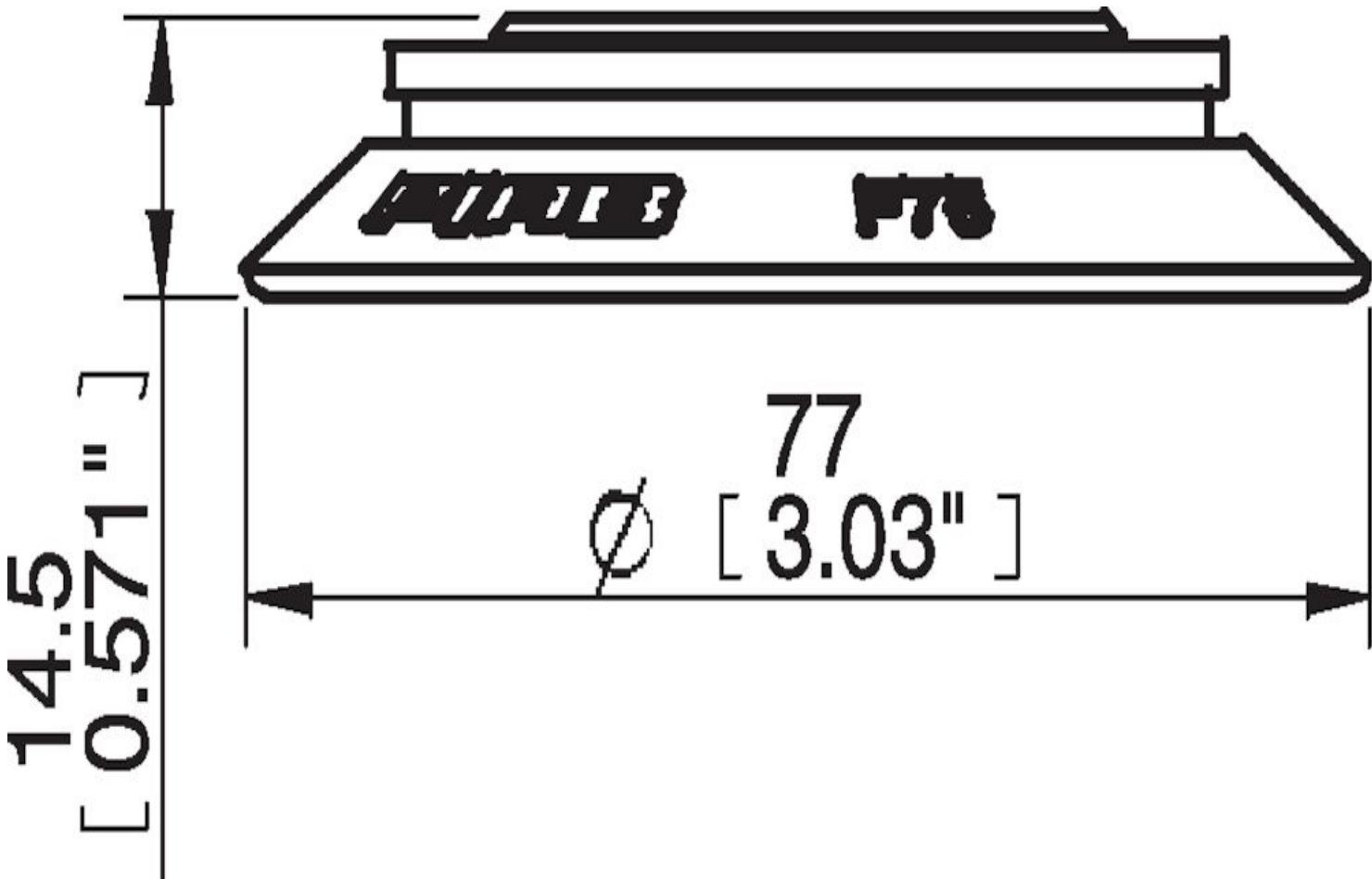
| F75P PU60   | Vertical (lb) | Parallel (lb) |
|-------------|---------------|---------------|
| 5.91 -inHg  | 18.43         | 10.57         |
| 17.72 -inHg | 51.93         | 25.40         |
| 26.58 -inHg | 74.19         | 37.99         |

|                        |                     |
|------------------------|---------------------|
| <b>Material</b>        |                     |
| Name                   | Polyurethane (PU60) |
| Color                  | Green transparent   |
| Temperature, min.   °F | 50.0                |
| Temperature max.   °F  | 122.0               |
| Hardness   °Shore A    | 60                  |

#### 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.

#### Accessories

07VD | Fitting 75, G3/8" female, with cone valve

01 07 148 | Thread insert G3/8" male, with O-ring and mesh filter for Vacuum Gripper System (VGS)

**Spare parts**

01.00.729 | Cone Valve for Fitting 75