

# Datasheet

## Suction cup OF70x175P Polyurethane 40 with collar for Vacuum Gripper System (VGS)

Item number: OF70X175P.5C



- 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.
- Cleats prevent thin, sensitive objects from being deformed and give extra friction when the lifting force is parallel to the surface of the object.
- 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, Corrugated cardboard/Paperboard, Plastic injection molded parts |
| Suction cup design      | -               | Oval   |
| Characteristics         | -               | Dry sheet metal, Corrugated / cardboard, Plastic injection molded parts          |
| Material                | -               | Polyurethane (PU)  |
| Weight, min.            | oz              | 6.81   |
| Suction cup model       | -               | OF   |
| Volume                  | in <sup>3</sup> | 4.88   |
| Height                  | in              | 0.98   |
| Length                  | in              | 7.087  |
| Outer diameter, min.    | in              | 7.087  |
| Fitting size            | -               | None   |
| Fitting option          | -               | None   |
| Fitting style           | -               | None   |
| Fitting type            | -               | None   |
| Width                   | in              | 2.95   |
| Suction cup model       | -               | OF70x175P PU40   |
| Movement, vertical max. | in              | 0.22   |
| Curve radius, min.      | in              | 5.12   |

### Performance - Lifting forces

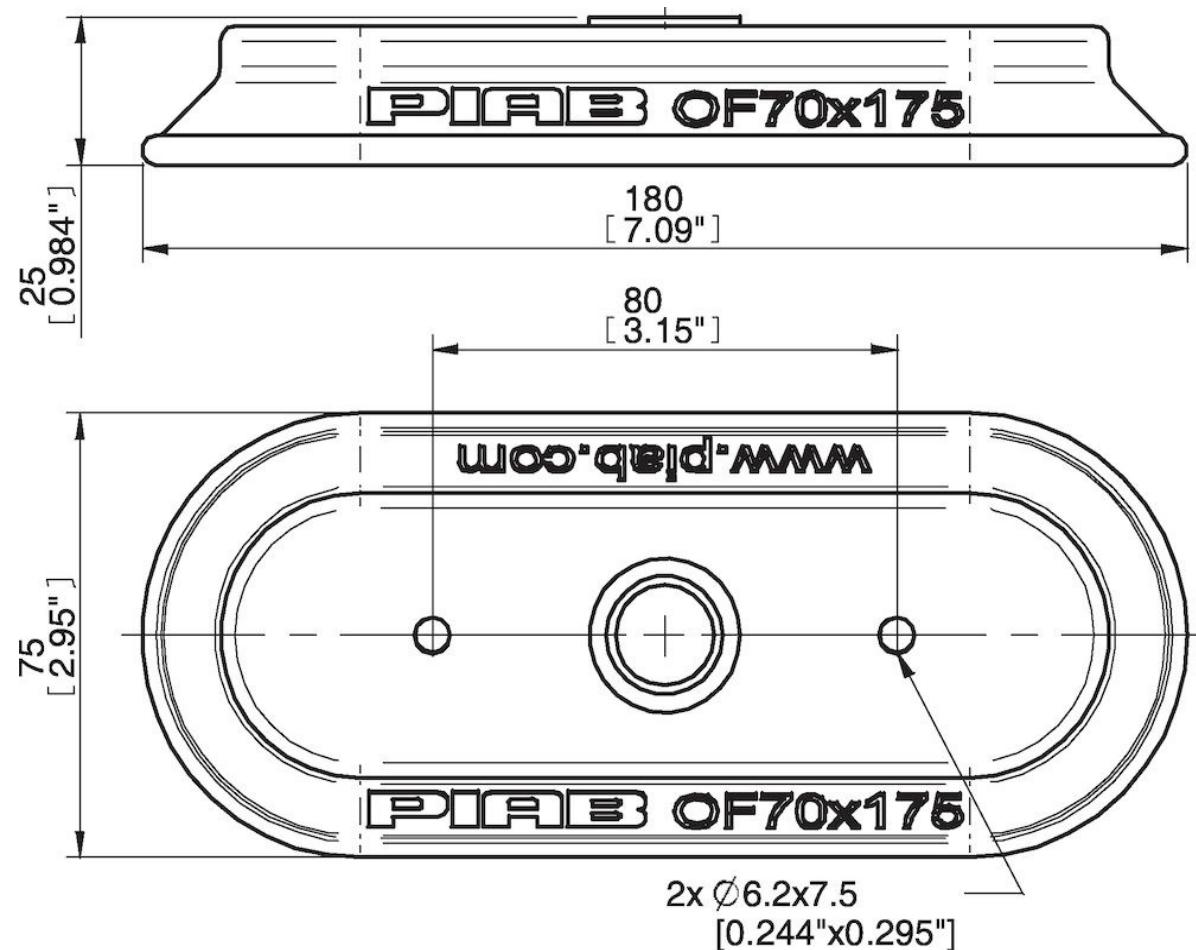
| OF70x175P PU40 | Vertical (lb) | Parallel (lb) |
|----------------|---------------|---------------|
| 5.91 -inHg     | 42.71         | 38.22         |
| 17.72 -inHg    | 119.15        | 98.92         |
| 26.58 -inHg    | 176.48        | 141.63        |

**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.

**Accessories**

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