

## Suction cup OBF40X80P Polyurethane 60, G3/8" female

Item number: OBF40x80P.5X.G46W



- Special designed friction cups for oily surfaces, such as sheets in metal forming processes.
- Normal wear on friction cup will not affect the long term shear force performance.
- Best choice if > 0,1g/m2 press oil is used on the sheet.
- Thanks to the strong grip on oily surfaces, the suction cups can withstand high shear forces, typically 2–4 times more than corresponding conventional suction cups.
- The "OBF" design is suitable for oblong objects with domed and flat surfaces, such as those encountered with body parts in the automotive industry.
- Can handle objects with height differences.
- Fitting option, male G3/8", with a swivel function prior to the locking operation, for easy positioning of the oval cup.
- DURAFLEX® suction cups manufactured in a specially developed material that features the elasticity of rubber and wear resistance of polyurethane. The material does not leave any marks on the objects handled.

### Technical data

| Description                      | Unit            | Value                      |
|----------------------------------|-----------------|----------------------------|
| Suction cup shape                | -               | Bellows                    |
| Application                      | -               | Oily sheet metal           |
| Suction cup design               | -               | Oval                       |
| Characteristics                  | -               | Oily sheet metal           |
| Material                         | -               | Polyurethane (PU)          |
| Weight, min.                     | oz              | 2.22                       |
| Suction cup model                | -               | OBF                        |
| Volume                           | in <sup>3</sup> | 1.36                       |
| Height (total height)            | in              | 1.56                       |
| Height 2 (actuated total height) | in              | 1.23                       |
| Length                           | in              | 3.12                       |
| Fitting size                     | -               | 3/8"                       |
| Fitting option                   | -               | None                       |
| Fitting style                    | -               | Female                     |
| Fitting type                     | -               | G-thread                   |
| Width                            | in              | 1.58                       |
| Length, actuated                 | in              | 3.17                       |
| Width, actuated                  | in              | 1.54                       |
| Fitting material                 | -               | Al                         |
| Suction cup model                | -               | OBF40x80P Dry metal sheet  |
| Movement, vertical max.          | in              | 0.33                       |
| Curve radius, min.               | in              | 2.17                       |
| Suction cup model                | -               | OBF40x80P Oily steel plate |
| Movement, vertical max.          | in              | 0.33                       |
| Curve radius, min.               | in              | 2.17                       |

## Performance - Lifting forces

|                            | Vertical (lb) | Parallel (lb) |
|----------------------------|---------------|---------------|
| OBF40x80P Dry metal sheet  |               |               |
| 17.72 -inHg                | 16.19         | 9.89          |
| 26.58 -inHg                | 23.83         | 12.14         |
| OBF40x80P Oily steel plate |               |               |
| 17.72 -inHg                | 16.19         | 5.62          |
| 26.58 -inHg                | 22.93         | 7.19          |

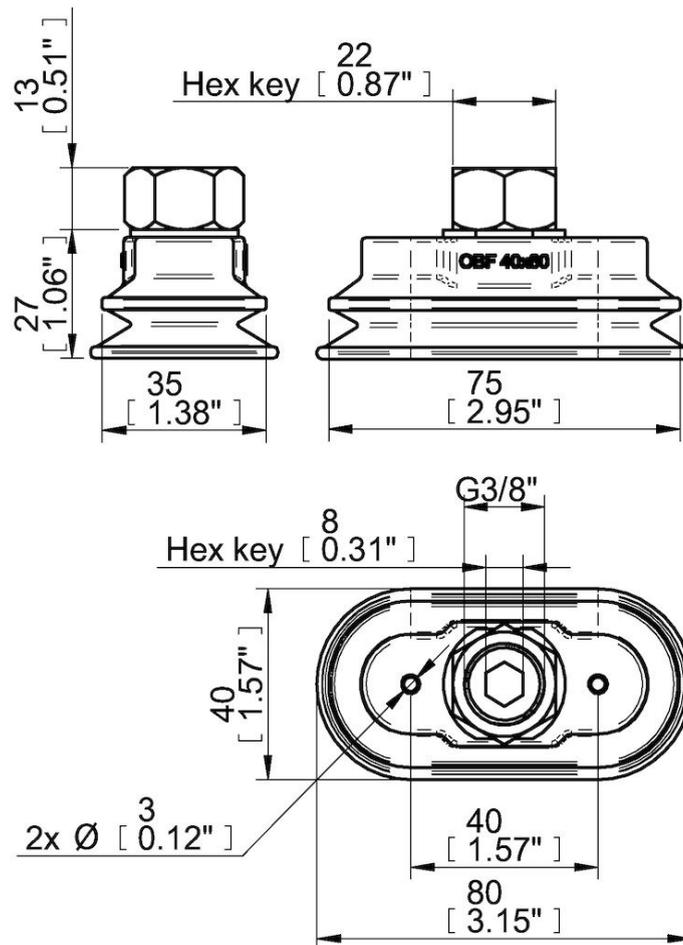
## Material

|                        |                     |
|------------------------|---------------------|
| Name                   | Polyurethane (PU60) |
| Color                  | Orange              |
| 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.