

Datasheet

Suction cup OCF20x80P Polyurethane 55/60, G3/8" male

Item number: OCF20x80P.5R.G41M



- 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 $> 0,1\text{g/m}^2$ 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 "OCF" design is suitable for oblong objects with slightly curved or flat surfaces, such as those encountered with body parts in the automotive industry.
- 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 | - | Concave |
| Application | - | Oily sheet metal |
| Suction cup design | - | Oval |
| Characteristics | - | Oily sheet metal |
| Material | - | Polyurethane (PU) |
| Weight, min. | oz | 0.85 |
| Suction cup model | - | OCF-P |
| Volume | in ³ | 0.92 |
| Height | in | 0.67 |
| Length | in | 3.31 |
| Fitting size | - | 3/8" |
| Fitting option | - | None |
| Fitting style | - | Male |
| Fitting type | - | G-thread |
| Width (1) | in | 0.94 |
| Suction cup model | - | OCF20x80P Dry metal sheet |
| Movement, vertical max. | in | 0.13 |
| Curve radius, min. | in | 0.79 |
| Suction cup model | - | OCF20x80P Oily steel plate |
| Movement, vertical max. | in | 0.13 |
| Curve radius, min. | in | 0.79 |

Performance - Lifting forces

| | | |
|----------------------------|---------------|---------------|
| OCF20x80P Dry metal sheet | Vertical (lb) | Parallel (lb) |
| 17.72 -inHg | 16.86 | 17.54 |
| 26.58 -inHg | 24.95 | 25.18 |
| OCF20x80P Oily steel plate | | |
| 17.72 -inHg | 18.43 | 7.87 |
| 26.58 -inHg | 20.23 | 10.79 |

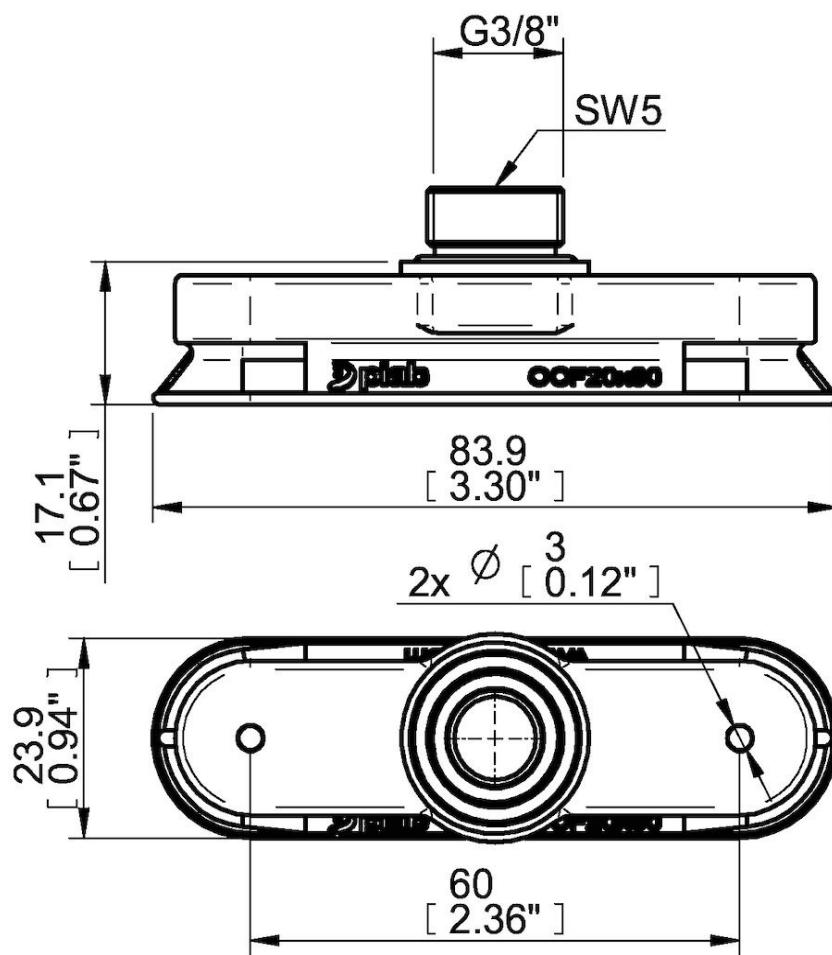
Material

| | | |
|------------------------|---------------------|---------------------|
| Name | Polyurethane (PU55) | Polyurethane (PU60) |
| Color | Orange | Green transparent |
| Temperature, min. °F | 50.0 | 50.0 |
| Temperature max. °F | 122.0 | 122.0 |
| Hardness °Shore A | 55 | 60 |

Material resistance

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

Dimensional drawings



Values specified in this data sheet are tested at (unless otherwise stated):

- Room temperature (20°C [68°F] \pm 3°C [5.5°F]).
- Standard atmosphere (101.3 [29.9 inHg] \pm 1.0 kPa [0.3 inHg]).
- Relative humidity 20-70%.
- Compressed air quality, DIN ISO 8573-1 class 4.