

# Datasheet

## Suction cup FC75P Polyurethane 60, G3/8" male - 1/8" NPSF female

Item number: FC75P.4E.07UF



- 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 <sup>3</sup>	1.83
Height	in	1.32
Outer diameter, min.	in	2.95
Fitting size	-	3/8"
Fitting option	-	None
Fitting style	-	Female
Fitting type	-	G-thread
Suction cup model	-	FC75P PU60
Movement, vertical max.	in	0.32
Curve radius, min.	in	3.071

### Performance - Lifting forces

FC75P PU60	Vertical (lb)	Parallel (lb)
5.91 -inHg	16.41	20.91
17.72 -inHg	37.77	50.58
26.58 -inHg	50.58	57.33

<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

#### **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**

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

01.07.302 | Suction cup FC75P Polyurethane 60, for tread insert