

# Datasheet

## Suction cup FC100P Polyurethane 40, G1/2" female

Item number: FC100P.4C.07NF



- 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	2.26
Suction cup model	-	FC
Volume	in <sup>3</sup>	4.88
Height	in	1.57
Outer diameter, min.	in	3.94
Fitting size	-	1/2"
Fitting option	-	Filter mesh
Fitting style	-	Female
Fitting type	-	G-thread
Suction cup model	-	FC100P PU40
Movement, vertical max.	in	0.40
Curve radius, min.	in	4.33

### Performance - Lifting forces

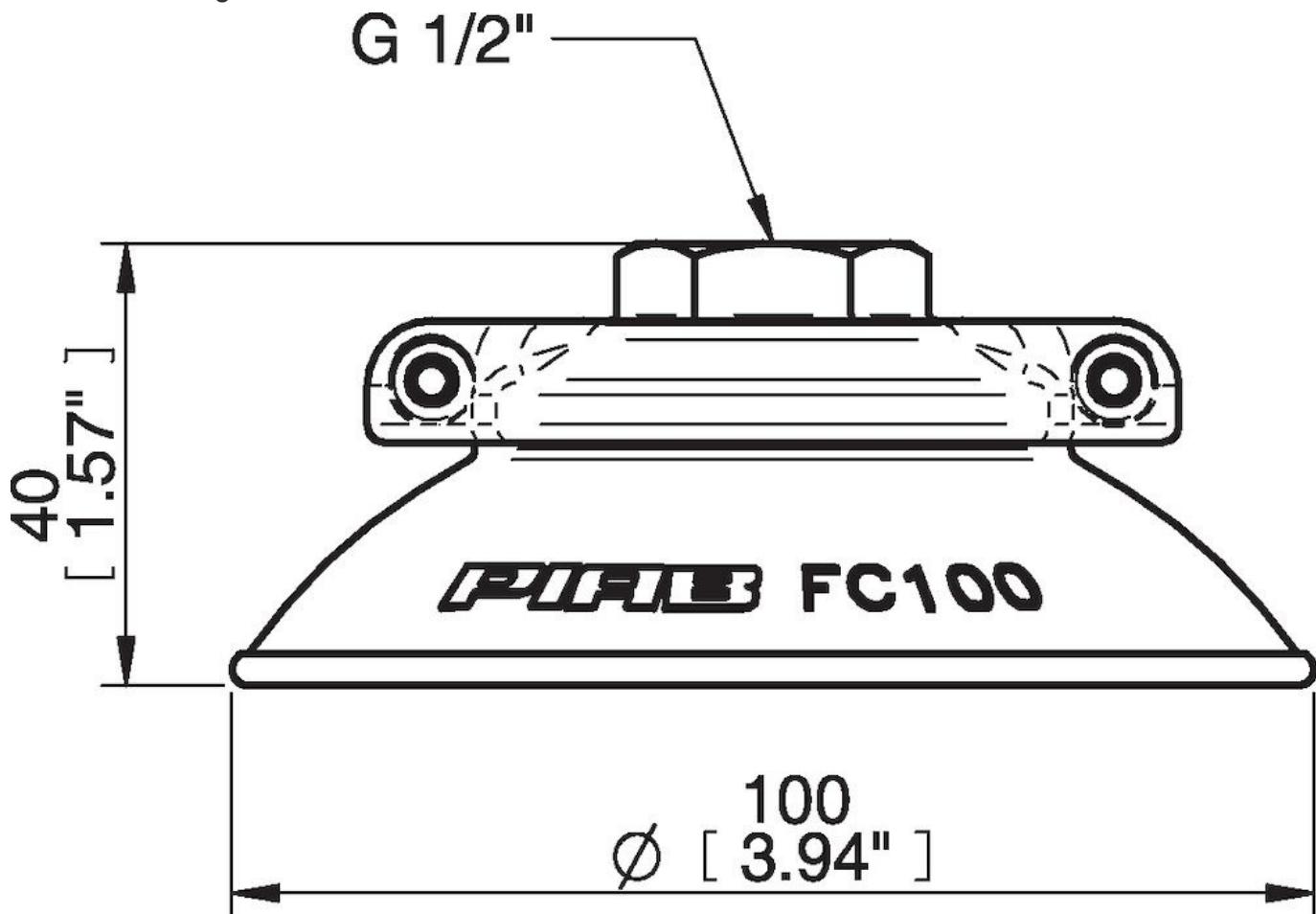
FC100P PU40	Vertical (lb)	Parallel (lb)
5.91 -inHg	30.80	39.57
17.72 -inHg	63.85	71.49
26.58 -inHg	84.75	94.42

<b>Material</b>	
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

07NA | Fitting 75, 1/8" NPSF female, clamp ring with mesh filter  
07ND | Fitting 75, G3/8" female, clamp ring with mesh filter  
07NE | Fitting 75, 3/8" NPSF female, with mesh filter  
FC100P.4E | Suction cup FC100P Polyurethane 60  
FC100P.5C | Suction cup FC100P Polyurethane 40 with collar for Vacuum Gripper System (VGS)  
01.07.148 | Thread insert G3/8" male, with O-ring and mesh filter for Vacuum Gripper System (VGS)  
FC100P.5E | Suction cup FC100P Polyurethane 60 with collar for Vacuum Gripper System (VGS)

## Spare parts

07NF | Fitting 75, G1/2" female, clamp ring with mesh filter  
FC100P.4C | Suction cup FC100P Polyurethane 40