Datasheet

Suction cup FC100P Polyurethane 40, 1/8" NPSF female, with mesh filter

Article number: 0103731

- 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® 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	-	Flat Concave
Application	-	Dry sheet metal, Mark Free
Suction cup design	-	Round
Characteristics	-	Dry sheet metal, Mark free
Material	-	Polyurethane (PU)
Weight, min.	g	64
Suction cup model	-	FC
Volume	cm^3	80
Height	mm	40
Outer diameter, min.	mm	100
Fitting size	-	1/8"
Fitting option	-	Filter mesh
Fitting style	-	Female
Fitting type	-	NPSF-thread
Suction cup model	-	FC100P PU40
Movement, vertical max.	mm	10.2
Curve radius, min.	mm	110

Performance - Lifting forces

FC100P PU40	Vertical (N)	Parallel (N)
20 -kPa	137	176
60 -kPa	284	318
90 -kPa	377	420

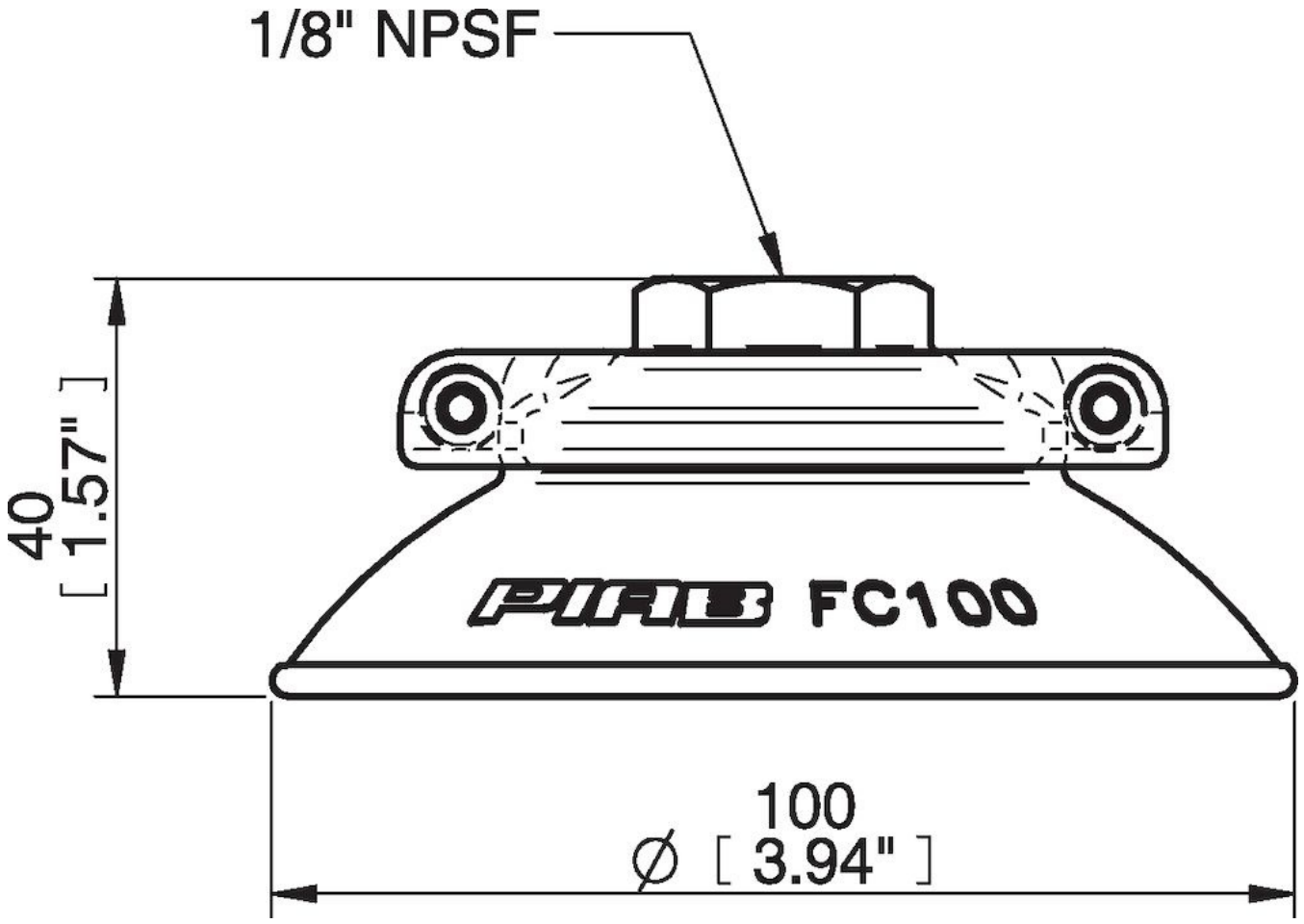
Material

Name	Polyurethane (PU40)
Colour	Red transparent
Temperature, min. | °C	10
Temperature max. | °C	50
Hardness | °Shore A	40

Material resistance

Alcohol	n/a
Concentrated acids	Fair
Ethanol	Fair
Hydrolysis	Fair
Methanol	Poor
Oil	Excellent
Oxidation	Poor
Petrol	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

0100551 | Fitting 75, G3/8" female, with mesh filter
0100553 | Fitting 75, 3/8" NPSF female, with mesh filter
0100555 | Fitting 75, G1/2" female, with mesh filter
0103299 | Suction cup FC100P Polyurethane 60
0106835 | Suction cup FC100P Polyurethane 40, for tread insert
0107148 | Thread insert G3/8" male, with O-ring and mesh filter
0107304 | Suction cup FC100P Polyurethane 60, for tread insert

Spare parts

0100548 | Fitting 75, 1/8" NPSF female, with mesh filter
0103297 | Suction cup FC100P Polyurethane 40