

Datasheet

Suction cup FC100P Polyurethane 60, 1/8" NPSF female

Item number: FC100P.4E.07NA



- 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 ³	4.88
Height	in	1.57
Outer diameter, min.	in	3.94
Fitting size	-	1/8"
Fitting option	-	Filter mesh
Fitting style	-	Female
Fitting type	-	NPSF-thread
Suction cup model	-	FC100P PU60
Movement, vertical max.	in	0.40
Curve radius, min.	in	4.33

Performance - Lifting forces

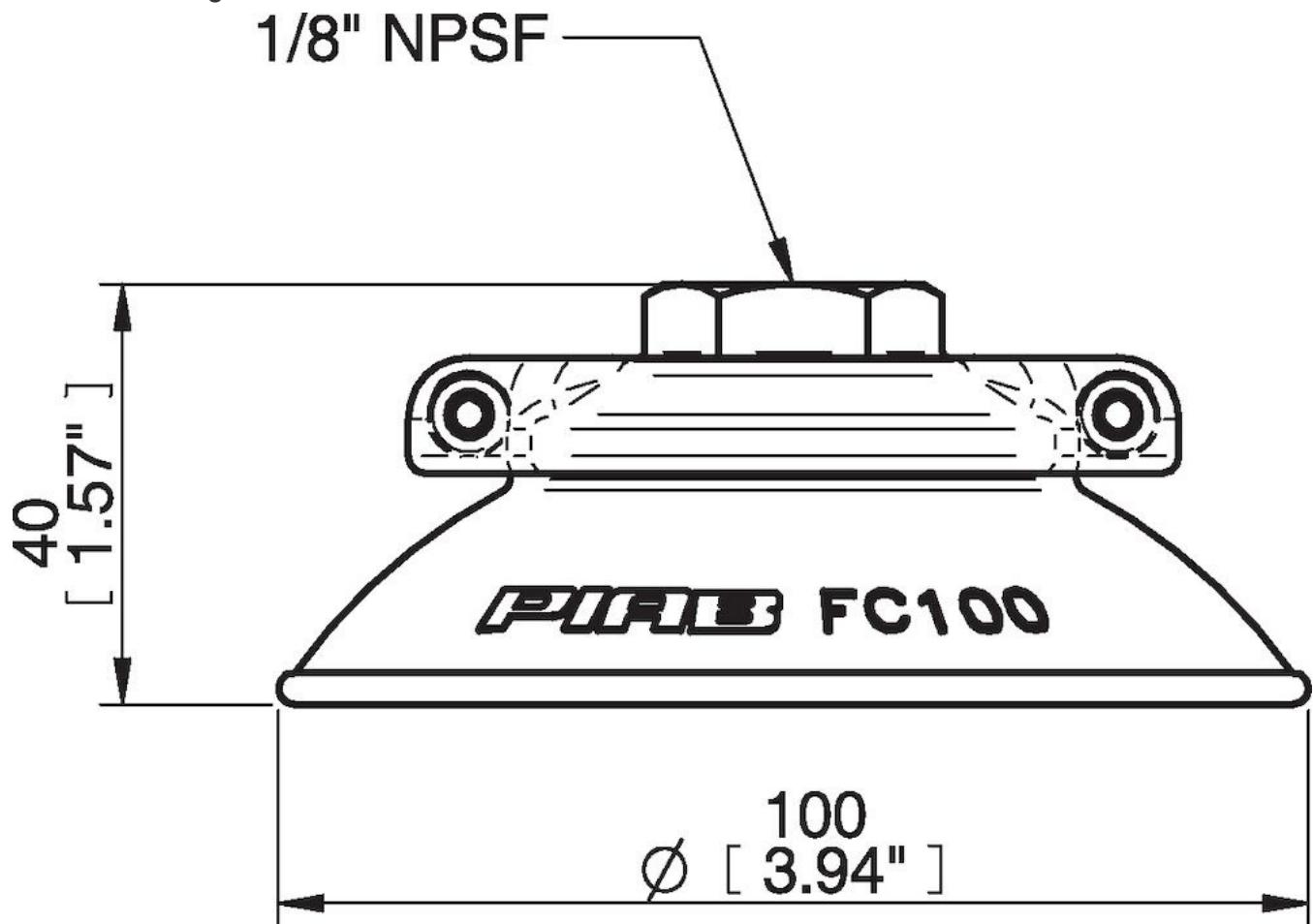
FC100P PU60	Vertical (lb)	Parallel (lb)
5.91 -inHg	34.17	25.18
17.72 -inHg	73.74	59.35
26.58 -inHg	100.27	85.88

Material	
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

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

07ND | Fitting 75, G3/8" female, clamp ring with mesh filter

07NE | Fitting 75, 3/8" NPSF female, with mesh filter

07NF | Fitting 75, G1/2" female, clamp ring with mesh filter

FC100P.4C | Suction cup FC100P Polyurethane 40

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

07NA | Fitting 75, 1/8" NPSF female, clamp ring with mesh filter

FC100P.4E | Suction cup FC100P Polyurethane 60