Datasheet

Suction cup BFF110P Polyurethane 55/60 G3/8" male, 1/8" NPSF female, with mesh filter

Article number: 0207213

- 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 > 0.1g/m2 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 "BFF" design is suitable for uneven/curved surfaces or if level compensation is needed, for example in de-stacking applications.
- The flat inner support gives stability during movement in any orientation.
- 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	-	Bellows
Application	-	Oily sheet metal
Suction cup design	-	Round
Characteristics	-	Oily sheet metal
Material	-	Polyurethane (PU)
Weight, min.	g	133.3
Suction cup model	-	BFF
Height	mm	62.8
Outer diameter, min.	mm	115
Fitting size	-	3/8"
Fitting option	-	Filter mesh
Fitting style	-	Male
Fitting type	-	G-thread
Fitting material	-	Al
Suction cup model	-	BFF110P Dry metal sheet
Movement, vertical max.	mm	21
Curve radius, min.	mm	95
Suction cup model	-	BFF110P Oily steel plate
Movement, vertical max.	mm	21
Curve radius, min.	mm	95

Performance - Lifting forces

BFF110P Dry metal sheet	Vertical (N)	Parallel (N)
60 -kPa	279	298
90 -kPa	377	346
BFF110P Oily steel plate		
60 -kPa	284	235
90 -kPa	345	253

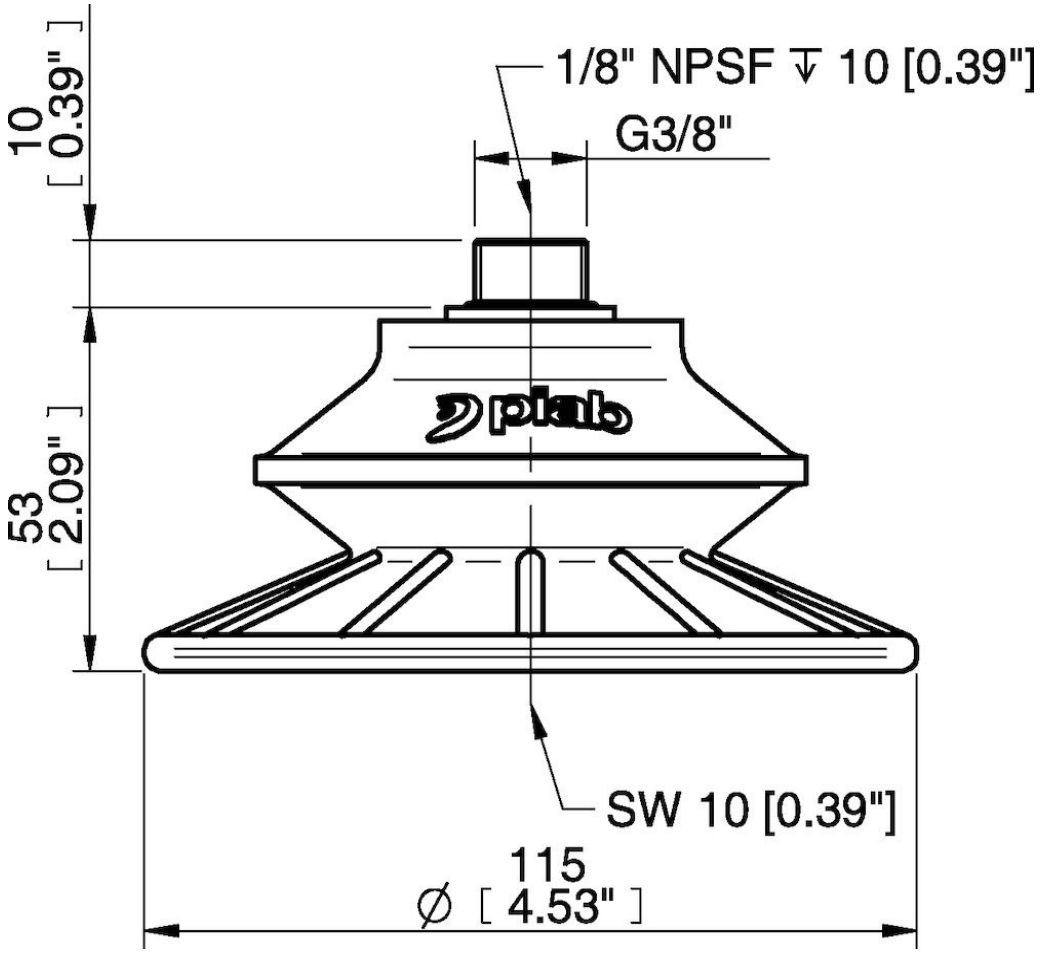
Material

Name	Polyurethane (PU55)	Polyurethane (PU60)
Colour	Orange	Orange
Temperature, min. | °C	10	10
Temperature max. | °C	50	50
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
Petrol	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] ± 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.