

Suction cup BFF110P Polyurethane 55/60 G3/8" male, 1/8" NPSF female, with mesh filter, 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 $> 0.1\text{g/m}^2$ 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.

General

Specification	Dry metal sheet
Replaces	0118671
Replaces US	BFF110P.5R.G45M
Curve radius	95 mm
Movement, vertical max.	21 mm
Application	Oily sheet metal
Material	Polyurethane (PU55), Polyurethane (PU60)
Suction cup model	BFF
Suction cup shape	Bellows
Weight	133.3 g

Fitting

Fitting size	3/8"
Fitting style	Male
Fitting type	G-thread
Fitting option	Filter mesh
Material	Al

Dimension

Height	53 mm
Outer diameter	115 mm

Performance — lifting forces, Dry metal sheet

		
60 -kPa	279 N	298 N
90 -kPa	377 N	346 N

Performance — lifting forces, Oily steel plate

		
60 -kPa	284 N	235 N
90 -kPa	345 N	253 N

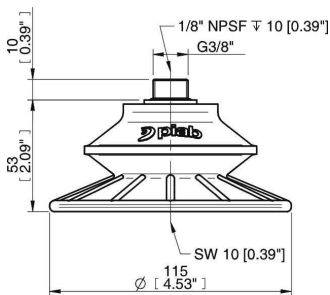
Material

	Polyurethane (PU60)	Polyurethane (PU55)
Colour	Orange	Orange
Hardness	60 °Shore A	55 °Shore A
Temperature	10 – 50 °C	10 – 50 °C

Material resistance

	Polyurethane (PU60)	Polyurethane (PU55)
Alcohol	N/A	N/A
Concentrated acids	+	+
Ethanol	+	+
Hydrolysis	+	+
Methanol	-	-
Oil	+++	+++
Oxidation	-	-
Petrol	+	+
Wear resistance	+++	+++
Weather and ozone	+++	+++

Dimensional drawings



Values specified in the data sheet are tested at:

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	0-100%
Compressed air quality	DIN ISO 8573-1 class 4