2 piab Evolving automation



Item no: 0206698

Suction cup BFF110TP Polyurethane 55/60/30 G3/8" male, 1/8" NPSF female, with mesh filter

The BFF-TP design is suitable for oily surfaces, 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. Special designed friction cups for oily surfaces, such as sheets in metal forming... processes. 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.

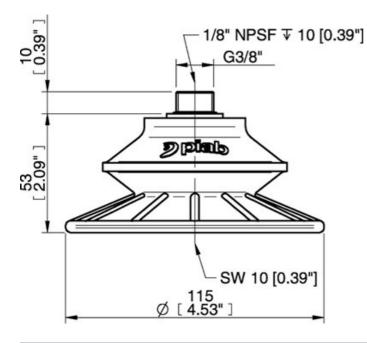
- Special designed friction cups for thin (0.6-0.8 mm) oily metal sheets, such as outer body car parts in a press-to press forming process.
- Long lasting material, normal wear on friction cup will not affect the long term grip performance.
- The suction cups can withstand high shear forces, typically 3–5 times more than corresponding conventional suction cups.
- Best choice if > 0.1g/m2 press oil is used on the sheet but also a great choice for dry metal sheets.
- The "BFF-TP" design is suitable for thin flat or uneven/curved surfaces and if level compensation is needed.
- The flat inner support, made of dual hardness, gives stability and good grip 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 and has a fantastic elastic memory, even after hundreds of thousands of cycle.

General

Application Suction cup shape	•				
	Oily sheet metal Bellows				
Material	terialPU30, PU55, PU60ction cup modelBFFTight133.3 gction cup modelBFF110P Dry metal sheetecificationDry metal sheet				
Suction cup model					
Weight					
Suction cup model					
Specification					
Movement, vertical max.					
Curve radius, min.	95 mm BFF110P Oily steel plate				
Suction cup model					
Specification	Oily steel plate				
Fitting					
Material	AI				
Fitting option	Filter mesh				
Fitting size	3/8" Male				
Fitting style					
Fitting type	G-thread				
Dimension					
Height	53 mm				
Length, actuated	116 mm				
Outer diameter	115 mm				
Performance - lifting forces					
BFF110P Dry metal sheet	土		→ △		
60 -kPa	279 N		298 N		
90 -kPa	377 N		346 N		
BFF110P Oily steel plate	Â		à		
60 -kPa	284 N		235 N		
90 -kPa	345 N		253 N		
Material					
Name	PU60	PU55	PU30		
Colour	Orange	Orange	Yellow		
Temperature	10 - 50 °C	10 - 50 °C	10 - 50 °C		
Hardness	60 °Shore A	55 °Shore A	30 °Shore A		

	PU60	PU55	PU30
Alcohol	n/a	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