Datasheet

Suction cup BXF90P Polyurethane 60, T-slot with mesh filter

Article number: 0207740

- Special designed friction cup with multi bellows for oily metal sheets. Suitable for application where great level compensation is needed such as de-stacking sheets from magazines (press-line) and picking car body parts from racks.
- Very low vacuum level needed to fully compress the extra-long bellows causes the cup not to push away parts from position.
- The "BXF" design is suitable for flat as well as uneven/curved surfaces.
- Internal friction pattern on the lip 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.
- DURAFLEX® is a material that features the elasticity of rubber and wear resistance of polyurethane. The material has a fantastic elastic memory, even after hundreds of thousand cycles.

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	136.5
Suction cup model	-	BXF
Volume	cm^3	180
Height	mm	85.4
Outer diameter, min.	mm	90
Outer diameter, actuated	mm	92.3
Fitting size	-	None
Fitting option	-	Filter mesh
Fitting style	-	T-slot
Fitting type	-	G-thread
Material	-	Al
Suction cup model	-	BXF90P Dry metal sheet
Movement, vertical max.	mm	49.9
Curve radius, min.	mm	160
Suction cup model	-	BXF90P Oily metal sheet
Movement, vertical max.	mm	49.9
Curve radius, min.	mm	160

Performance - Lifting forces

BXF90P Dry metal sheet	Vertical (N)	Parallel (N)
60 -kPa	169	84
90 -kPa	231	92
BXF90P Oily metal sheet		
60 -kPa	168	92
90 -kPa	225	103

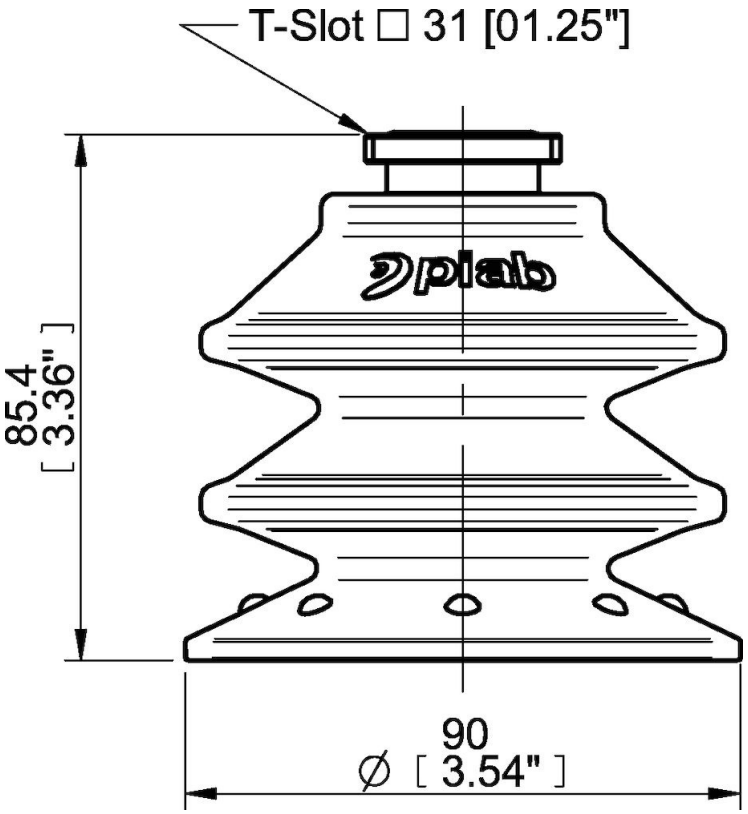
Material

Name	Polyurethane (PU60)
Colour	Orange
Temperature, min. | °C	10
Temperature max. | °C	50
Hardness | °Shore A	60

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.