Datasheet

Suction cup OBF35x90P Polyurethane 55/60, T-slot with mesh filter

Article number: 0213929

- 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 "OBF" design is suitable for oblong objects with domed and flat surfaces, such as those encountered with body parts in the automotive industry.
- Can handle objects with height differences.
- Fitting option, male G3/8", with a swivel function prior to the locking operation, for easy positioning of the oval cup.
- 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, Dry sheet metal
Suction cup design	-	Oval
Characteristics	-	Oily sheet metal, Dry sheet metal
Material	-	Polyurethane (PU)
Weight, max.	g	97
Weight, min.	g	77
Suction cup model	-	OBF
Volume	cm^3	36
Height	mm	42
Length	mm	105
Fitting size	-	None
Fitting option	-	Filter mesh
Fitting style	-	T-slot
Fitting type	-	None
Width	mm	50
Material	-	Al
Suction cup model	-	OBF
Movement, vertical max.	mm	11
Curve radius, min.	mm	30
Suction cup model	-	OBF
Movement, vertical max.	mm	11
Curve radius, min.	mm	30

Performance - Lifting forces

OBF	Vertical (N)	Parallel (N)
60 -kPa	140	125
90 -kPa	198	179

OBF	Vertical (N)	Parallel (N)
OBF		
60 -kPa	108	105
90 -kPa	157	151

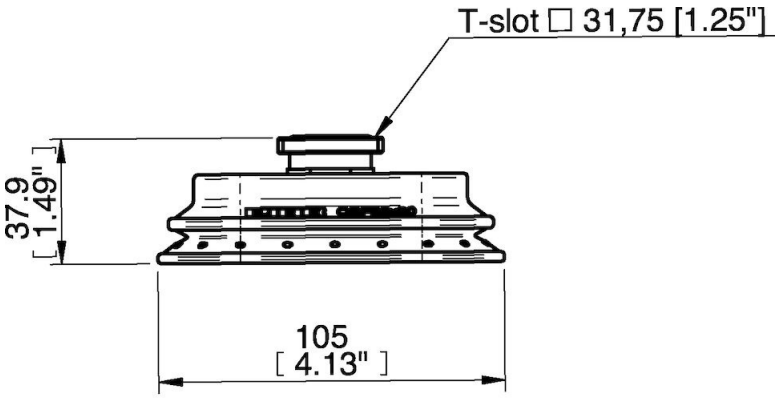
Material

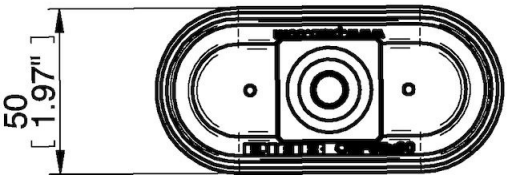
Name	Polyurethane (PU55)	Polyurethane (PU60)
Colour	Orange	Green transparent
Temperature, min. | °C	10	10
Temperature max. | °C	50	50
Hardness | °Shore A	55	60

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.