Datasheet

Suction cup BFFT90P Polyurethane 60/60/30, 3/8" NPT female, with mesh filter

Article number: 0206530



- 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.
- Refined internal friction pattern provides additional 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 "BFFT" design is suitable for thin flat or uneven/curved surfaces and if level compensation is needed, for example in de-stacking applications.
- 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 cycles.

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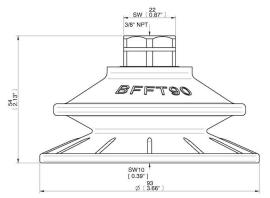
Description	Unit	Value				
Suction cup shape	-	Bellows				
Application	-	Oily sheet metal				
Suction cup design	-	Round				
Characteristics	-	Oily sheet metal				
Material	-	Polyurethane (PU)				
Weight, min.	g	99.6				
Suction cup model	-	BFFT				
Volume	cm ³	83.6				
Height	mm	54				
Outer diameter, min.	mm	93				
Outer diameter, actuated	mm	95.5				
Fitting size	-	3/8"				
Fitting option	-	Filter mesh				
Fitting style	-	Female				
Fitting type	-	NPT-thread				
Suction cup model	-	BFFT90P Oily metal sheet				
Movement, vertical max.	mm	22.6				
Curve radius, min.	mm	130				
Suction cup model	-	BFFT90P Dry metal sheet				
Movement, vertical max.	mm	22.6				
Curve radius, min.	mm	130				

Performance - Lifting forces

BFFT90P Oily metal sheet	Vertical (N)	Parallel (N)
60 - kPa	181	171

BFFT90P Oily metal sheet 90 -kPa BFFT90P Dry metal sheet		Vertical (N) 216	Parallel (N) 232					
60 -kPa		193	104					
90 -kPa		227	144					
Material								
Name	Polyurethane (PU30)	Polyurethane (PU60)	Polyurethane (PU60)					
Colour	Yellow	Green transparent	Orange					
Temperature, min. °C	10	10	10					
Temperature max. °C	50	50	50					
Hardness °Shore A	30	60	60					
Material resistance	Material resistance							
Alcohol	n/a	n/a	n/a					
Concentrated acids	Fair	Fair	Fair					
Ethanol	Fair	Fair	Fair					
Hydrolysis	Fair	Fair	Fair					
Methanol	Poor	Poor	Poor					
Oil	Excellent	Excellent	Excellent					
Oxidation	Poor	Poor	Poor					
Petrol	Fair	Fair	Fair					
Wear resistance	Excellent	Excellent	Excellent					
Weather and ozone	Excellent	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.