Datasheet

Suction cup BFFT80P-2 Polyurethane 60/60/30, G3/8" female plastic

Article number: 0222781



- The BFFT80P-2 is an enhanced version with a slightly steadier bellow giving better performance related to BAF values, better capability to cope with shear forces and high-speed applications.
- 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.
- 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.
- 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.

Technical c	lata
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Description	Unit	Value
Suction cup shape	-	Bellows
Application	-	Oily sheet metal, Dry sheet metal
Suction cup design	-	Round
Characteristics	-	Oily sheet metal, Dry sheet metal
Material	-	Polyurethane (PU)
Weight, min.	g	64
Suction cup model	-	BFFT
Volume	cm ³	81
Height	mm	39.2
Height 2 (Actuated)	mm	17.7
Outer diameter, min.	mm	82.7
Outer diameter, actuated	mm	86.4
Fitting size	-	3/8"
Fitting option	-	None
Fitting style	-	Female
Fitting type	-	G-thread
Suction cup model	-	BFFT80P-2 Oily metal sheet
Movement, vertical max.	mm	21
Curve radius, min.	mm	110
Suction cup model	-	BFFT80P-2 Dry metal sheet
Movement, vertical max.	mm	21
Curve radius, min.	mm	110

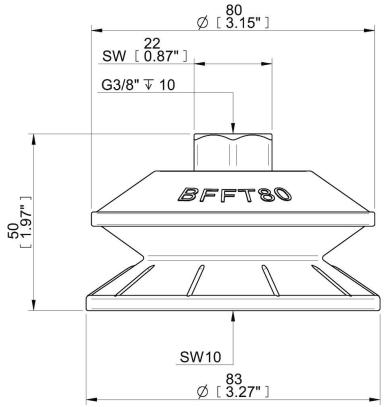
Performance - Lifting forces

BFFT80P-2 Oily metal sheet	Vertical (N)	Parallel (N)
20 -kPa	87	44
40 -kPa	163	74
60 -kPa	242	102
90 -kPa	282	142
BFFT80P-2 Dry metal sheet		
20 -kPa	87	60
40 -kPa	163	129
60 -kPa	242	188
90 -kPa	282	208

Material

Green transparent	Polyurethane (PU60) Orange
	Orange
10	
	10
50	50
60	60
n/a	n/a
Fair	Fair
Fair	Fair
Fair	Fair
Poor	Poor
Excellent	Excellent
Poor	Poor
Fair	Fair
Excellent	Excellent
Excellent	Excellent
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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.