Datasheet

Suction cup BFFT23P Polyurethane 60/60/30, G3/8" male - 1/8" NPSF female

Article number: 0210557



- 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.

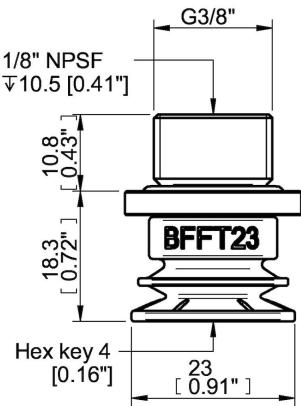
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DescriptionUnitValueSuction cup shape-BellowsApplication-Oily sheet metalSuction cup design-RoundCharacteristics-Oily sheet metalMaterial-Polyurethane (PU)Weight, min.g14.9Suction cup model-BFFTVolumecm³1.08Heightmm13.4Outer diameter, min.mm23Outer diameter, actuatedmm24Fitting size-3/8"Fitting style-MaleFitting type-AlMaterial-AlMaterial-AlMaterial-3/8"Outer diameter, actuatedMaleFitting size-3/8"Fitting type-AlSuction cup model-AlMaterial-AlMaterial-BFFT23 Dry metal sheetMovement, vertical max.mm5	l oonniour uutu		
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Suction cup design-RoundCharacteristics-Oily sheet metalMaterial-Polyurethane (PU)Weight, min.g14.9Suction cup model-BFFTVolumecm³1.08Heightmm13.4Outer diameter, min.mm23Outer diameter, actuatedmm24Fitting size-3/8"Fitting type-G-threadMaterial-BFFT23 Dry metal sheetMovement, vertical max.mm5	Suction cup shape	-	Bellows
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Fitting type-G-threadMaterial-AlSuction cup model-BFFT23 Dry metal sheetMovement, vertical max.mm5	Fitting size	-	3/8"
Material-AlSuction cup model-BFFT23 Dry metal sheetMovement, vertical max.mm5	Fitting style	-	Male
Suction cup model-BFFT23 Dry metal sheetMovement, vertical max.mm5	Fitting type	-	G-thread
Movement, vertical max. mm 5	Material	-	AI
	Suction cup model	-	BFFT23 Dry metal sheet
	Movement, vertical max.	mm	5
Curve radius, min. mm 9	Curve radius, min.	mm	9
Suction cup model - BFFT23 Oily metal sheet	Suction cup model	-	BFFT23 Oily metal sheet
Movement, vertical max. mm 5	Movement, vertical max.	mm	5
Curve radius, min. mm 9	Curve radius, min.	mm	9

Performance - Lifting forces

BFFT23 Dry metal sheet		Vertical (N)	Parallel (N)				
60 -kPa		19	15				
90 -kPa BFFT23 Oily metal sheet		27	19				
60 -kPa		17	9				
90 -kPa		23	12				
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 ^o Shore A	30	60	60				
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.