



Item no: 0206546

Suction cup DCF110P Polyurethane 60, G3/8" male, 1/8" NPSF female, with mesh filter

- Special designed friction cups for domed or flat oily surfaces, such as sheets in metal forming processes.
- Long lasting material, normal wear on friction cup will not affect the long term shear force performance.
- Best choice if $> 0.1\text{g}/\text{m}^2$ press oil is used on the sheet but also a great choice for dry metal sheets.
- 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.
- Thin design that easily will follow convex or concave surfaces. The thin and pliable design in combination with a special inner friction pattern will maximize grip performance.
- 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.

General

Application	Oily sheet metal
Suction cup shape	Deep Concave
Material	Polyurethane (PU60)
Suction cup model	DCF
Weight	94.8 g
Volume	110.2 cm ³
Suction cup model	DCF110P Oily metal sheet
Specification	Oily metal sheet
Movement, vertical max.	17.2 mm
Curve radius, min.	153 mm
Suction cup model	DCF110P Dry metal sheet
Specification	Dry metal sheet





Fitting

Fitting option	Filter mesh
Fitting size	18, 38
Fitting style	Female/Male
Fitting type	G, NS

Dimension

Height	50.4 mm
Outer diameter, actuated	121.2 mm
Outer diameter	112.5 mm

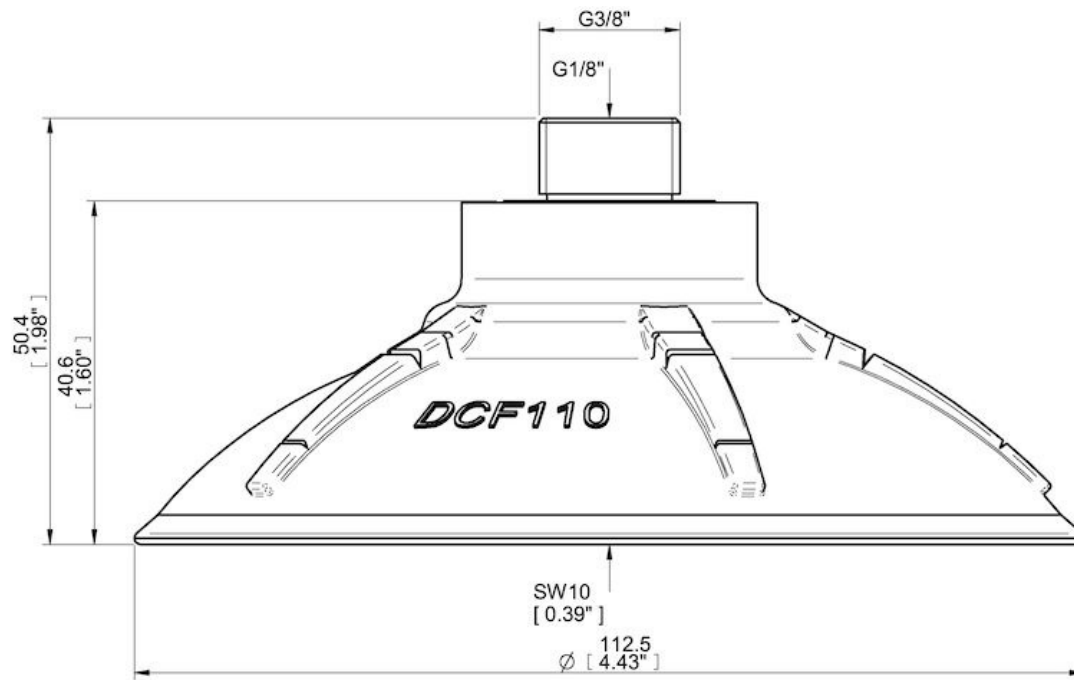
Performance - lifting forces

DCF110P Oily metal sheet		
60 -kPa	313 N	286 N
90 -kPa	433 N	358 N
DCF110P Dry metal sheet		
60 -kPa	315 N	377 N
90 -kPa	436 N	573 N

Material

Name	PU60	PU60	PU30
Colour	Orange	GreenTransparent	Yellow
Temperature	10 - 50 °C	10 - 50 °C	10 - 50 °C
Hardness	60 °Shore A	60 °Shore A	30 °Shore A

	PU60	PU60	PU30
Alcohol	n/a	n/a	n/a
Concentrated acids	+	+	+
Ethanol	+	+	+
Hydrolysis	+	+	+
Methanol	-	-	-
Oil	+++	+++	+++
Oxidation	-	-	-
Petrol	+	+	+
Wear resistance	+++	+++	+++
Weather and ozone	+++	+++	+++



Values specified in the data sheet are tested at:

- Room temperature: (20° C [68° F] \pm 3° C [5.5° F])
- Standard atmosphere: (101.3 [29.9 inHg] \pm 1.0 kPa [0.3 inHg])
- Relative humidity: 0-100%
- Compressed air quality: DIN ISO 8573-1 class 4