

Datasheet

Suction cup BF110P Polyurethane 30/60, with collar for thread insert for Vacuum Gripper System (VGS)

Item number: BF110P.5K



- Suitable for uneven surfaces.
- Dual hardness allowing strength and stability in conjunction with softness and flexibility.
- DURAFLEX® material features the elasticity of rubber in combination with the wear resistance of polyurethane.
- The DURAFLEX® material is mark-free.

Technical data

Description	Unit	Value
Suction cup shape	-	Bellows
Application	-	Dry sheet metal, Mark Free
Suction cup design	-	Round
Characteristics	-	Dry sheet metal, Mark free
Material	-	Polyurethane (PU)
Weight, min.	oz	3.88
Suction cup model	-	BF-P
Volume	in ³	6.71
Height	in	2.087
Outer diameter, min.	in	4.55
Outer diameter, actuated	in	3.49
Fitting size	-	None
Fitting option	-	None
Fitting style	-	None
Fitting type	-	None
Suction cup model	-	BF110P PU30 PU60
Movement, vertical max.	in	1.079
Curve radius, min.	in	2.17

Performance - Lifting forces

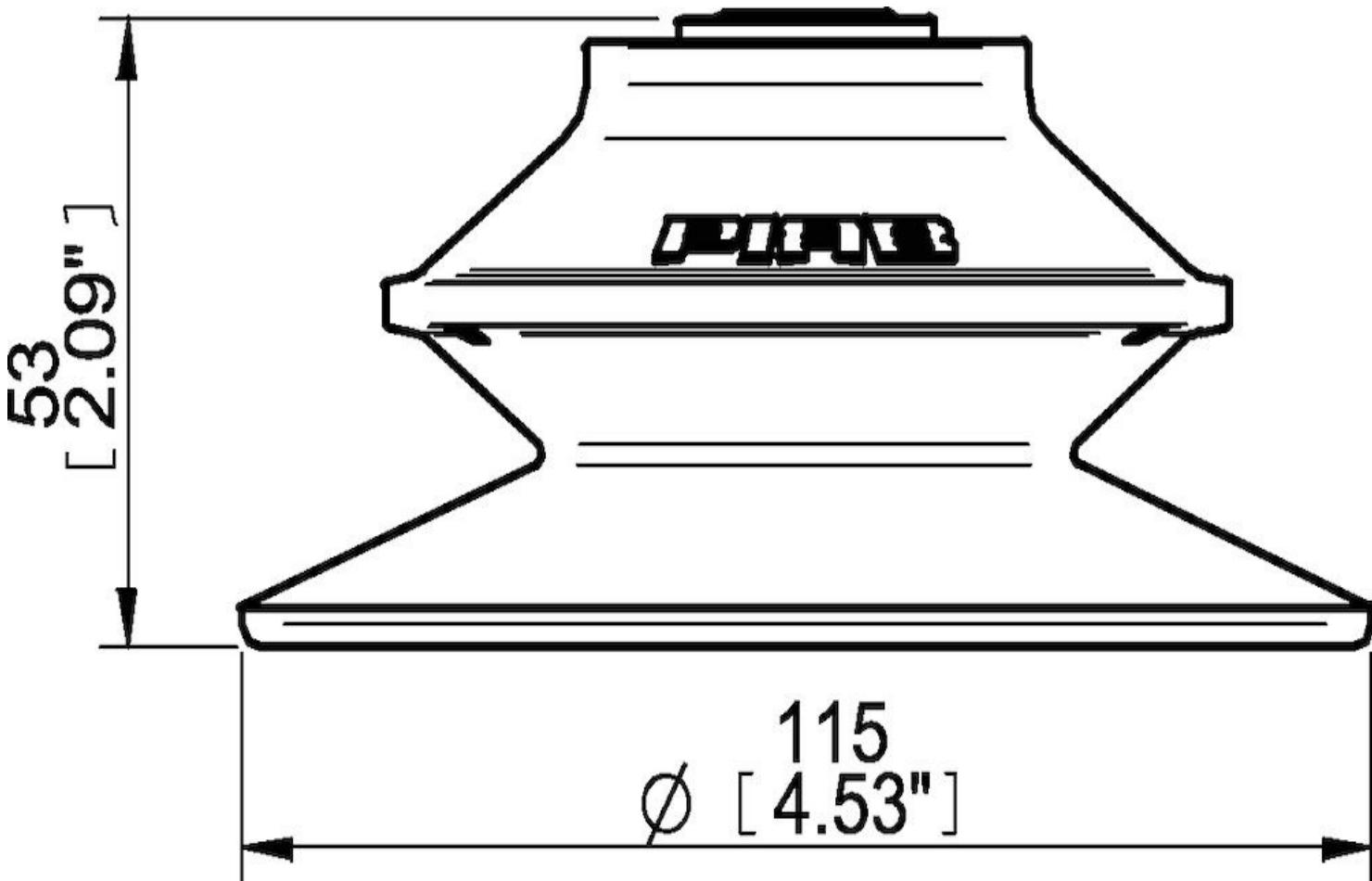
	Vertical (lb)	Parallel (lb)
BF110P PU30 PU60		
5.91 -inHg	28.78	23.83
17.72 -inHg	51.48	47.21
26.58 -inHg	50.58	55.30

Name	Polyurethane (PU30)	Polyurethane (PU60)
Color	Yellow	Green transparent
Temperature, min. °F	50.0	50.0
Temperature max. °F	122.0	122.0
Hardness °Shore A	30	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
Gasoline	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.