

Datasheet

Suction cup B20 Silicone, G1/8" male/M5 female, with dual flow control valve

Item number: B20.20.02DD



- Suitable for level adjustment. Several short bellows in one lifting device can handle objects with height differences and varying shapes, for example embossed or corrugated plates.
- The lifting movement can be used to separate small and thin objects.
- Only lightweight objects should be handled when the lifting force is parallel to the surface of the object, in order to achieve good precision and safe lifting movement.

Technical data

Description	Unit	Value
Suction cup shape	-	Bellows
Application	-	Dry sheet metal, Plastic injection molded parts
Suction cup design	-	Round
Characteristics	-	Dry sheet metal, Plastic injection molded parts
Material	-	Silicone (SIL)
Weight, min.	oz	0.11
Suction cup model	-	B
Volume	in ³	0.16
Leakage flow, max.	scfm	0.13
Height	in	1.043
Outer diameter, min.	in	0.87
Outer diameter, actuated	in	1.024
Fitting size	-	1/8", M5
Fitting option	-	Dual flow control valve
Fitting style	-	Female/Male
Fitting type	-	G-thread, M-thread
Valve restriction	in	0.028
Restricted vacuum flow	scfm	1.48
Suction cup model	-	B20
Movement, vertical max.	in	0.39
Curve radius, min.	in	0.39

Performance - Lifting forces

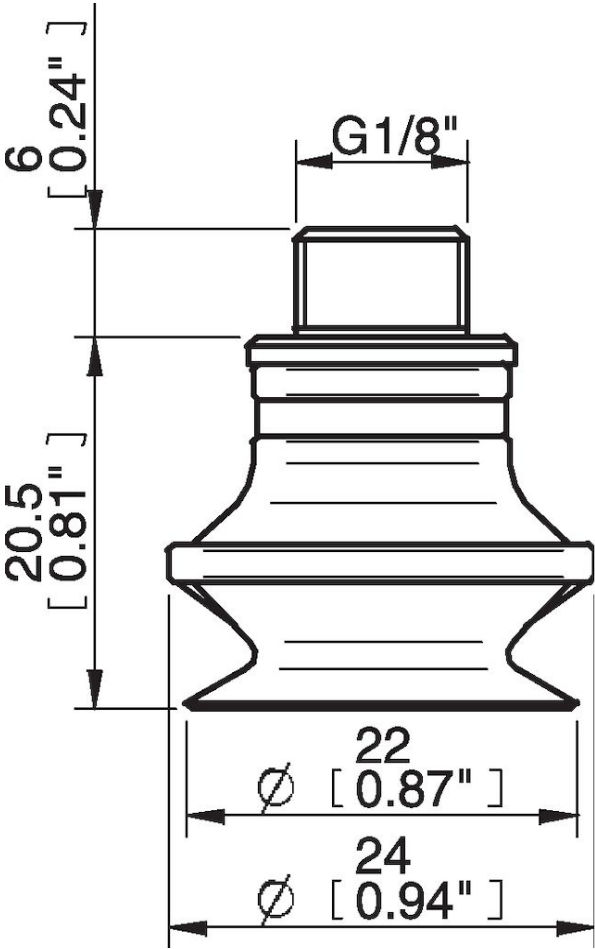
B20	Vertical (lb)	Parallel (lb)
5.91 -inHg	1.33	0.65
17.72 -inHg	2.20	1.21
26.58 -inHg	3.15	1.85

Material	
Name	Silicone, SIL 50° Shore A
Color	Red
Temperature, min. °F	-40.0
Temperature max. °F	392.0
Hardness °Shore A	50

Material resistance

Alcohol	Good
Concentrated acids	Poor
Ethanol	n/a
Hydrolysis	Fair
Methanol	n/a
Oil	Poor
Oxidation	Excellent
Gasoline	Poor
Wear resistance	Good
Weather and ozone	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.

Accessories

02AE | Fitting 5xM5 female

02AF | Fitting G1/8" male/M5 female, with mesh filter

B20.47 | Suction cup B20 HNBR

02CD | Fitting G1/8" male/M5 female, PA

02AA | Fitting M5 female

02AD | Fitting G1/8" male/M5 female

02AB | Fitting G1/8" male, with mesh filter

02AC | Fitting 1/8" NPT male, with mesh filter

02DA | Fitting M5 female, with dual flow control valve

02DC | Fitting 1/8" NPT male, with dual flow control valve

02DE | Fitting 5xM5 female, with dual flow control valve

Spare parts

B20.20 | Suction cup B20 Silicone

02DD | Fitting G1/8" male/M5 female, with dual flow control valve