

Datasheet

Suction cup B20 Chloroprene, G1/8" male, with mesh filter and dual flow control valve

Item number: B20.10.02DB



- 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	-	Chloroprene (CR)
Weight, min.	oz	0.23
Suction cup model	-	B
Volume	in ³	0.16
Leakage flow, max.	scfm	0.13
Height	in	1.24
Outer diameter, max.	in	0.94
Outer diameter, min.	in	0.87
Outer diameter, actuated	in	1.024
Fitting size	-	1/8"
Fitting option	-	Dual flow control valve, Filter mesh
Fitting style	-	Male
Fitting type	-	G-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

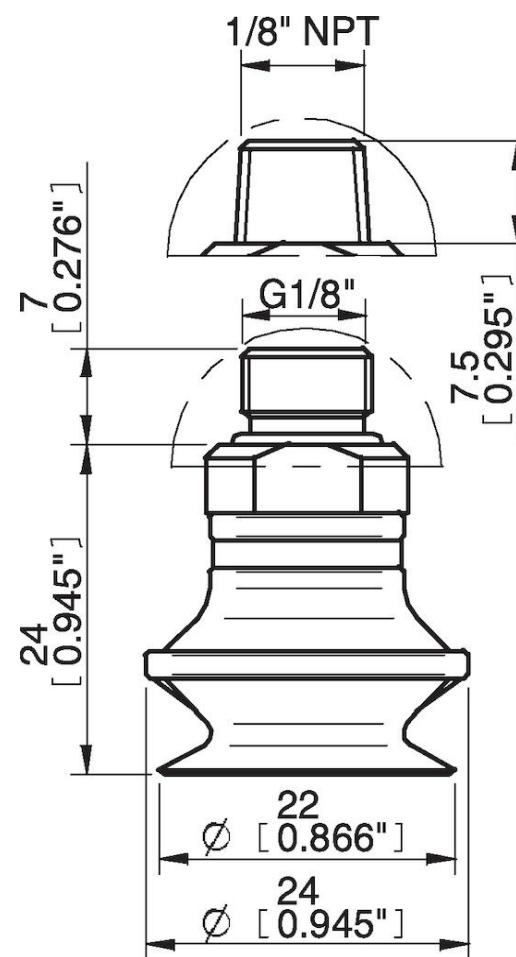
	Vertical (lb)	Parallel (lb)
B20		
5.91 -inHg	1.33	0.65
17.72 -inHg	2.20	1.21
26.58 -inHg	3.15	1.85

Material

Name	Chloroprene (CR) 50° Shore A
Color	Black
Temperature, min. °F	-40.0
Temperature max. °F	230.0
Hardness °Shore A	50

Material resistance

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

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
B20.20 | Suction cup B20 Silicone
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
02DD | Fitting G1/8" male/M5 female, with dual flow control valve
02DE | Fitting 5xM5 female, with dual flow control valve

Spare parts

02DB | Fitting G1/8" male, check valve
B20.10 | Suction cup B20 Chloroprene