

# B50



## B50

### Suction cup with short bellows



- 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.

#### Lifting forces & Technical data

Outer Dia.	Lifting force vertical to the surface, lbf, at vacuum level			Lifting force parallel to the surface, lbf, at vacuum level			Volume	Min. curve radius	Max. vertical movement	Weight rubber part
	6 -inHg	18 -inHg	27 -inHg	6 -inHg	18 -inHg	27 -inHg				
in							in <sup>3</sup>	in	in	oz
2.09	7.42	14.6	18.4	—	—	—	1.95	1.18	0.75	0.71

#### Material specifications

Material	Color	Hardness °Shore A	Temperature range °F
Nitrile-PVC, NPV	Black	50	32–194
Silicone, SIL	Red	50	-40–392
HNBR	Grey-blue	75	-22–284*

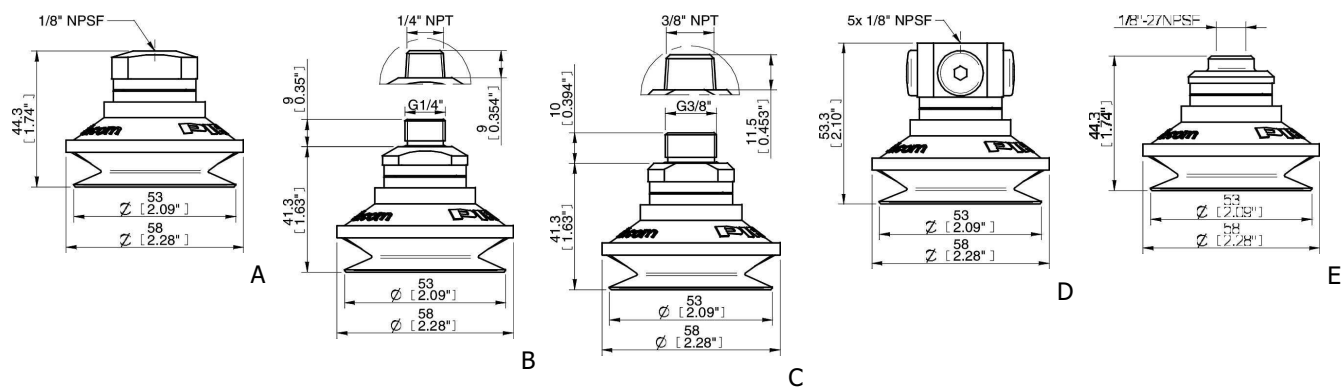
\* For a shorter period of time up to 320°F

#### Material resistance

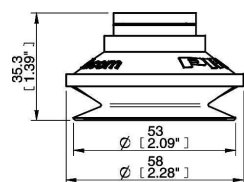
Material	Wear resistance	Oil	Weather & ozone	Hydrolysis	Gasoline	Concentrated acids	Alcohol	Oxidation
Nitrile-PVC, NPV	Excellent	Excellent	Good	Good	Excellent	Fair	Good	Good
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent
HNBR	Excellent	Excellent	Excellent	Good	Excellent	Fair	Good	Excellent

# Ordering information

Suction cups with fitting		Weight (oz)	Part No.
A	Suction cup B50 Nitrile-PVC, 1/8" NPSF female	1.06	B50.30.05AA
A	Suction cup B50 Nitrile-PVC, 1/8" NPSF female, with mesh filter	1.06	B50.30.05AG
A	Suction cup B50 Nitrile-PVC, 1/8" NPSF female, with dual flow control valve	1.06	B50.30.05DA
B	Suction cup B50 Nitrile-PVC, G1/4" male, with mesh filter	1.06	B50.30.05AB
B	Suction cup B50 Nitrile-PVC, G1/4" male, with mesh filter and dual flow control valve	1.06	B50.30.05DB
B	Suction cup B50 Nitrile-PVC, 1/4" NPT male, with mesh filter	1.06	B50.30.05AC
B	Suction cup B50 Nitrile-PVC, 1/4" NPT male, with dual flow control valve	1.06	B50.30.05DC
C	Suction cup B50 Nitrile-PVC, G3/8" male, with mesh filter	1.06	B50.30.05AD
C	Suction cup B50 Nitrile-PVC, G3/8" male, with mesh filter and dual flow control valve	1.06	B50.30.05DD
C	Suction cup B50 Nitrile-PVC, 3/8" NPT male, with mesh filter	1.06	B50.30.05AE
D	Suction cup B50 Nitrile-PVC, 5x1/8" NPSF female	1.77	B50.30.05AF
A	Suction cup B50 Silicone, 1/8" NPSF female	1.06	B50.20.05AA
A	Suction cup B50 Silicone, 1/8" NPSF female, with mesh filter	1.06	B50.20.05AG
A	Suction cup B50 Silicone, 1/8" NPSF female, with dual flow control valve	1.06	B50.20.05DA
B	Suction cup B50 Silicone, G1/4" male, with mesh filter	1.06	B50.20.05AB
B	Suction cup B50 Silicone, G1/4" male, with mesh filter and dual flow control valve	1.06	B50.20.05DB
B	Suction cup B50 Silicone, 1/4" NPT male, with mesh filter	1.06	B50.20.05AC
B	Suction cup B50 Silicone, 1/4" NPT male, with dual flow control valve	1.06	B50.20.05DC
C	Suction cup B50 Silicone, G3/8" male, with mesh filter	1.06	B50.20.05AD
C	Suction cup B50 Silicone, G3/8" male, with mesh filter and dual flow control valve	1.06	B50.20.05DD
C	Suction cup B50 Silicone, 3/8" NPT male, with mesh filter	1.06	B50.20.05AE
D	Suction cup B50 Silicone, 5x1/8" NPSF female	1.77	B50.20.05AF
A	Suction cup B50 HNBR, 1/8" NPSF female	1.06	B50.37.05AA
A	Suction cup B50 HNBR, 1/8" NPSF female, with mesh filter	1.06	B50.37.05AG
A	Suction cup B50 HNBR, 1/8" NPSF female, with dual flow control valve	1.06	B50.37.05DA
B	Suction cup B50 HNBR, G1/4" male, with mesh filter	1.06	B50.37.05AB
B	Suction cup B50 HNBR, G1/4" male, with dual flow control valve	1.06	B50.37.05DB
B	Suction cup B50 HNBR, 1/4" NPT male, with mesh filter	1.06	B50.37.05AC
B	Suction cup B50 HNBR, 1/4" NPT male, with dual flow control valve	1.06	B50.37.05DC
C	Suction cup B50 HNBR, G3/8" male, with mesh filter	1.06	B50.37.05AD
C	Suction cup B50 HNBR, G3/8" male, with dual flow control valve	1.06	B50.37.05DD
C	Suction cup B50 HNBR, 3/8" NPT male, with mesh filter	1.06	B50.37.05AE
C	Suction cup B50 HNBR, 3/8" NPT male, with dual flow control valve	1.06	B50.37.05DE
D	Suction cup B50 HNBR, 5x1/8" NPSF female	1.77	B50.37.05AF
D	Suction cup B50 HNBR, 5x1/8" NPSF female, with dual flow control valve	1.77	B50.37.05DF
E	Suction cup B50 Nitrile-PVC, 1/8" NPSF female, PA	0.91	B50.30.05CA
E	Suction cup B50 Silicone, 1/8" NPSF female, PA	0.91	B50.20.05CA



Rubber parts	Part No.
Suction cup B50 Silicone	B50.20
Suction cup B50 Nitrile-PVC	B50.30
Suction cup B50 HNBR	B50.37



Fittings	Part No.
Fitting 1/8" NPSF female, 50	05AA
Fitting 1/8" NPSF female, 50, with mesh filter	05AG
Fitting 1/8" NPSF female, 50, with dual flow control valve	05DA
Fitting G1/8" male, 50, with mesh filter	05AI
Fitting G1/4" male, 50, with mesh filter	05AB
Fitting G1/4" male, with dual flow control valve	05DB
Fitting 1/4" NPT male, with mesh filter	05AC
Fitting 1/4" NPT male, with dual flow control valve	05DC
Fitting G3/8" male, 50, with mesh filter	05AD
Fitting G3/8" male, 50, with mesh filter and dual flow control valve	05DD
Fitting 3/8" NPT male, with mesh filter	05AE
Fitting 3/8" NPT male, with dual flow control valve	05DE
Fitting 5x1/8" NPSF female, 50	05AF
Fitting 5x1/8" NPSF female, 50, with dual flow control valve	05DF
Fitting 1/8" NPSF female, 50, PA	05CA