

## 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

Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level			Volume	Min. curve radius	Max. vertical movement	Weight rubber part
20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa	cm <sup>3</sup>	mm	mm	g
33	65	82	—	—	—	32	30	19	20.0

### MATERIAL SPECIFICATIONS

Material	Colour	Hardness °Shore A	Temperature range °C
Nitrile-PVC, NPV	Black	50	0–90
Silicone, SIL	Red	50	-40–200
HNBR	Grey-blue	75	-30–140*

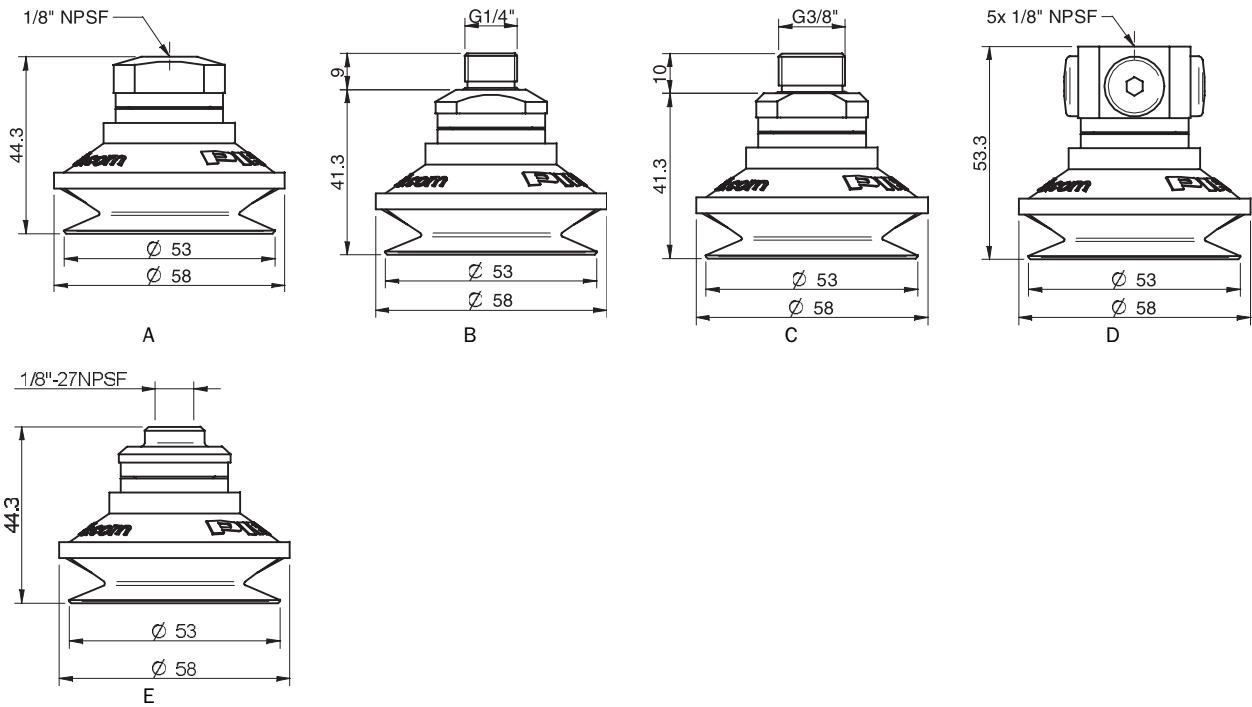
\* For a shorter period of time up to +160 °C

### MATERIAL RESISTANCE

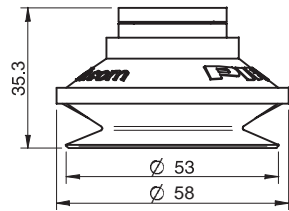
Material	Wear resistance	Oil	Weather & ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Nitrile-PVC, NPV	Excellent	Excellent	Good	Good	Excellent	Fair	Good	Good
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent
HNBR	Excellent	Excellent	Excellent	Good	Excellent	Fair	Good	Excellent

### ORDERING INFORMATION

	Complete suction cups	Art. No.
A	Suction cup B50 Nitrile-PVC, 1/8" NPSF female, with mesh filter	0101649
A	Suction cup B50 Nitrile-PVC, 1/8" NPSF female, with dual flow control valve	0101650
B	Suction cup B50 Nitrile-PVC, G1/4" male, with mesh filter	0101644
B	Suction cup B50 Nitrile-PVC, G1/4" male, with mesh filter and dual flow control valve	0101651
C	Suction cup B50 Nitrile-PVC, G3/8" male, with mesh filter	0101646
C	Suction cup B50 Nitrile-PVC, G3/8" male, with mesh filter and dual flow control valve	0101653
D	Suction cup B50 Nitrile-PVC, 5x1/8" NPSF female	0101648
A	Suction cup B50 Silicone, 1/8" NPSF female, with mesh filter	0101636
A	Suction cup B50 Silicone, 1/8" NPSF female, with dual flow control valve	0101637
B	Suction cup B50 Silicone, G1/4" male, with mesh filter	0101631
B	Suction cup B50 Silicone, G1/4" male, with mesh filter and dual flow control valve	0101638
C	Suction cup B50 Silicone, G3/8" male, with mesh filter	0101633
C	Suction cup B50 Silicone, G3/8" male, with mesh filter and dual flow control valve	0101640
D	Suction cup B50 Silicone, 5x1/8" NPSF female	0101635
A	Suction cup B50 HNBR, 1/8" NPSF female, with mesh filter	0108171
B	Suction cup B50 HNBR, G1/4" male, with mesh filter	0108172
C	Suction cup B50 HNBR, G3/8" male, with mesh filter	0108173
E	Suction cup B50 Nitrile-PVC, 1/8" NPSF female, PA	0111063



Rubber parts	Art. No.
Suction cup B50 Silicone	0101108
Suction cup B50 Nitrile-PVC	0101107
Suction cup B50 HNBR	0108165



Fittings	Art. No
Fitting 1/8" NPSF female, 50, with mesh filter	0101154
Fitting 1/8" NPSF female, 50, with dual flow control valve	3251012
Fitting G1/4" male, 50, with mesh filter	3250092
Fitting G1/4" male, with mesh filter and dual flow control valve	3251013
Fitting G3/8" male, 50, with mesh filter	3250087
Fitting G3/8" male, 50, with mesh filter and dual flow control valve	3251015
Fitting 5x1/8" NPSF female, 50	0100262
Fitting 5x1/8" NPSF female, 50, with dual flow control valve	3251017
Fitting 1/8" NPSF female, 50, PA	3150198

For further information and dimensioned drawings, see SUCTION CUPS FITTINGS chapter.