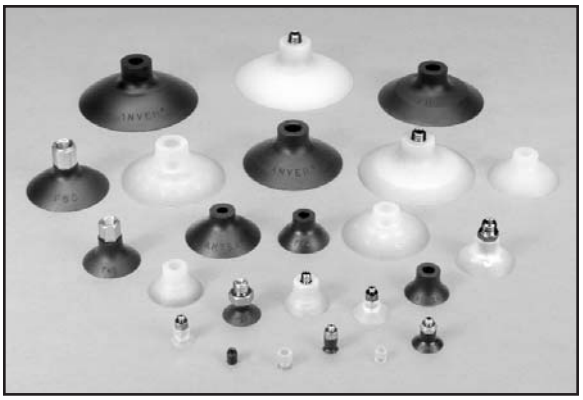
Vacuum Cups and Suction Cups

Universal 2.5 Bellows Style Vacuum Suction Cups

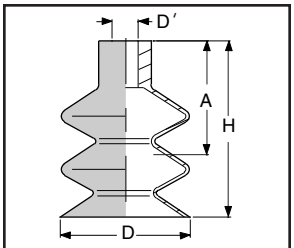


Double Bellows Suction Cups with Interchangeable Fittings For Horizontal and Vertical Handling of Concave and Convex Surfaces

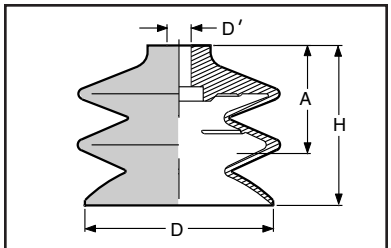
Bellows Suction Cups are Excellent for Concave and Convex Surfaces and Eliminate the Need for Spring Suspensions in many cases

2.5 Bellows Vacuum Suction Cups attach gently and easily with minimum pressure. They are excellent for concave and convex shapes as well as on slanted surfaces. Their design can replace mechanical springs, ball swivels and height compensators, allowing for less complicated and more economical installations. Keeping vacuum levels a bit lower extends the life of the suction cups

Note: Fittings are available for these cups.
Please visit www.anver.com for specifications and more information.



B2.5-5 through B2.5-25



B2.5-32 through B2.5-88

Vacuum Cup Part Number	D Dia. in. (mm)	d Dia. in. (mm)	H Height in. (mm)	A Attached Height in. (mm)	Volume in.3 (cm3)	Capacity * lb. (Kg) 2 to 1	Weight (Grams)
PBA4-ESD	0.16 (4.0)	0.16 (4.0)	0.59 (15.0)	-	-	-	-
PBA4-SI	0.16 (4.0)	0.16 (4.0)	0.59 (15.0)	-	-	-	-
B2.5-5-NBR	0.22 (5.7)	0.16 (4.0)	0.53 (13.5)	0.41 (10.5)	0.002 (0.04)	0.15 (0.07)	0.35 Grams
B2.5-5-SIT	0.22 (5.7)	0.16 (4.0)	0.53 (13.5)	0.41 (10.5)	0.002 (0.04)	0.15 (0.07)	0.35 Grams
B2.5-7-NBR	0.28 (7.0)	0.16 (4.0)	0.56 (14.2)	0.39 (10.0)	0.003 (0.05)	0.20 (0.10)	0.59 Grams
B2.5-7-SIT	0.28 (7.0)	0.16 (4.0)	0.56 (14.2)	0.39 (10.0)	0.003 (0.05)	0.20 (0.10)	0.59 Grams
B2.5-7-NM	0.28 (7.0)	0.16 (4.0)	0.56 (14.2)	0.39 (10.0)	0.003 (0.05)	0.20 (0.10)	0.59 Grams
PBL8-SI	0.31 (8.0)	0.31 (8.0)	0.83 (21.0)	-	-	-	-
B2.5-9-NBR	0.35 (9.0)	0.16 (4.0)	0.59 (15)	0.47 (12.0)	0.009 (0.15)	0.34 (0.15)	0.77 Grams
B2.5-9-SIT	0.35 (9.0)	0.16 (4.0)	0.59 (15)	0.47 (12.0)	0.009 (0.15)	0.34 (0.15)	0.77 Grams

➨ This spec sheet was adapted for print from our website. Additional information and photos are available at www.anver.com. 6003801

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Vacuum Cups and Suction Cups

Universal 2.5 Bellows Style Vacuum Suction Cups

ANVER® CORPORATION

Vacuum Cup Part Number	D Dia. in. (mm)	d Dia. in. (mm)	H Height in. (mm)	A Attached Height in. (mm)	Volume in.3 (cm3)	Capacity * lb. (Kg) 2 to 1	Weight (Grams)
B2.5-9-NM	0.35 (9.0)	0.16 (4.0)	0.59 (15)	0.47 (12.0)	0.009 (0.15)	0.34 (0.15)	0.77 Grams
PBL10-SI	0.39 (10.0)	0.31 (8.0)	0.85 (21.5)	-	-	-	-
B2.5-14-NBR	0.59 (15.0)	0.16 (4.0)	0.92 (23.3)	0.51 (13.0)	0.059 (0.98)	0.70 (0.34)	1.59 Grams
B2.5-14-SIT	0.59 (15.0)	0.16 (4.0)	0.92 (23.3)	0.51 (13.0)	0.059 (0.98)	0.70 (0.34)	1.59 Grams
B2.5-14-NM	0.59 (15.0)	0.16 (4.0)	0.92 (23.3)	0.51 (13.0)	0.059 (0.98)	0.70 (0.34)	1.59 Grams
PBL16-SI	0.63 (16)	0.31 (8.0)	0.83 (21)	-	-	-	-
B2.5-18-NBR	0.72 (18.3)	0.16 (4.0)	0.90 (22.8)	0.51 (13.0)	0.082 (1.35)	1.37 (0.62)	1.93 Grams
B2.5-18-SIT	0.72 (18.3)	0.16 (4.0)	0.90 (22.8)	0.51 (13.0)	0.082 (1.35)	1.37 (0.62)	1.93 Grams
B2.5-18-NM	0.72 (18.3)	0.16 (4.0)	0.90 (22.8)	0.51 (13.0)	0.082 (1.35)	1.37 (0.62)	1.93 Grams
B2.5-20-NBR	0.79 (20.0)	0.16 (4.0)	0.91 (23.0)	0.51 (13.0)	0.122 (2.00)	1.44 (0.65)	2.39 Grams
B2.5-20-SIT	0.79 (20.0)	0.16 (4.0)	0.91 (23.0)	0.51 (13.0)	0.122 (2.00)	1.44 (0.65)	2.39 Grams
B2.5-20-NM	0.79 (20.0)	0.16 (4.0)	0.91 (23.0)	0.51 (13.0)	0.122 (2.00)	1.44 (0.65)	2.39 Grams
PBL22-SI	0.87 (22)	0.31 (8.0)	0.85 (21.5)	-	-	-	-
B2.5-25-NBR	0.98 (25.0)	0.16 (4.0)	1.34 (34.0)	0.63 (16.0)	0.330 (5.40)	2.00 (0.90)	4.09 Grams
B2.5-25-SIT	0.98 (25.0)	0.16 (4.0)	1.34 (34.0)	0.63 (16.0)	0.330 (5.40)	2.00 (0.90)	4.09 Grams
B2.5-25-NM	0.98 (25.0)	0.16 (4.0)	1.34 (34.0)	0.63 (16.0)	0.330 (5.40)	2.00 (0.90)	4.09 Grams
B2.5-32-NBR	1.26 (32.0)	0.31 (8.0)	1.48 (37.5)	0.91 (23.0)	0.610 (10.00)	3.80 (1.70)	11.40 Grams
B2.5-32-SIT	1.26 (32.0)	0.31 (8.0)	1.48 (37.5)	0.91 (23.0)	0.610 (10.00)	3.80 (1.70)	11.40 Grams
B2.5-42-NBR	1.69 (43.0)	0.31 (8.0)	1.81 (46.0)	0.94 (24.0)	1.190 (19.50)	5.50 (2.60)	21.00 Grams

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Universal 2.5 Bellows Style Vacuum Cups - Nomathane Versions

Vacuum Cup Part Number	D Dia. in. (mm)	d Dia. in. (mm)	H Height in. (mm)	A Attached Height in. (mm)	Volume in.3 (cm3)	Capacity * lb. (Kg) 2 to 1	Weight (Grams)
B2.5-42-SIT	1.69 (43.0)	0.31 (8.0)	1.81 (46.0)	0.94 (24.0)	1.190 (19.50)	5.50 (2.60)	21.00 Grams
B2.5-62-NBR	2.36 (60.0)	0.31 (8.0)	2.13 (54.0)	0.94 (24.0)	4.420 (72.50)	13.00 (6.10)	46.90 Grams
B2.5-62-SIT	2.36 (60.0)	0.31 (8.0)	2.13 (54.0)	0.94 (24.0)	4.420 (72.50)	13.00 (6.10)	46.90 Grams
B2.5-88-NBR	3.46 (88.0)	0.47 (12.0)	3.35 (85.0)	1.54 (39.0)	10.100 (165.00)	36.00 (16.80)	190.40 Grams
B2.5-88-SIT	3.46 (88.0)	0.47 (12.0)	3.35 (85.0)	1.54 (39.0)	10.100 (165.00)	36.00 (16.80)	190.40 Grams

Notes:

The cup capacities shown above (*) are theoretical capacities based on 24"Hg at sea level with a safety factor of two (2) and a ± 5% margin of error. This is the US ANSI ASME Standard B30.20 for vacuum lifter specifications and is commonly used in North America as a design capacity for vacuum components. When used in vertical applications, take these values and divide again by 2 to obtain a 4 to 1 safety factor per the ANSI specifications. These are realistic working capacities when designing equipment.

Other manufacturers use a pull-off figure at 27"Hg to show a high capacity value for their cups. This is accurate, but requires users to do all the math themselves to build in safety factors. The values are basically the same, but it is necessary to calculate the working capacities with a safety factor via the following formula at sea level:

Pull-off value (at 27"Hg) = ANVER's Listed Capacity x 2 x 1.125 (at 24"Hg)

For example: ANVER vacuum cup number F52 has a rated capacity of 15.10 lb at 24"Hg. The pull-off capacity at 27"Hg for this cup would be 15.10 x 2 x 1.125 = 33.98 lbs. From this point, it is necessary to calculate the safety factor based on the vacuum level being used, and the altitude.

To ensure safety, 80% of actual overall diameter is used when determining Load Capacity.