

E.L. SIMETH CO., INC.
SINCE 1945

The Vacuum Resource[®] Book

From **ANVER** 





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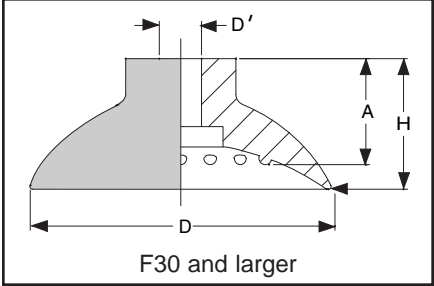
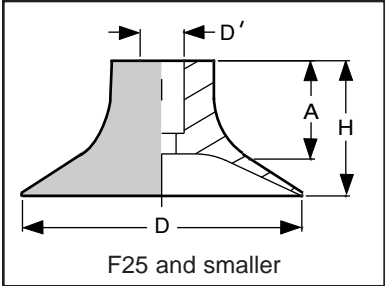
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Flat Vacuum Suction Cups

Flat vacuum suction cups attach quickly due to the small volume of air to be evacuated. They feature patterned knobs on the bottom to maximize capacity and are excellent for holding flat, flexible materials without deformation. Relatively stiff, the cup bodies retain their shape well in production applications. They are excellent for use on fast cycle transfer systems. Use on flat or slightly curved surfaces, and for horizontal or vertical lifting.

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



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	Item Weight (Grams)
F3-SI	0.12 (3.0)	0.05 (1.3)	0.28 (7)	-	-	-	-
F3.5-SI	0.14 (3.5)	0.09 (2.2)	0.28 (7.0)	-	-	-	-
F4-SI	0.16 (4.0)	0.05 (1.3)	0.28 (7)	-	-	-	-
F4.5-SI	0.18 (4.5)	0.09 (2.2)	0.28 (7)	-	-	-	-
F5-NBR	0.21 (5.4)	0.15 (3.8)	0.35 (9.0)	0.31 (8.0)	0.002 (0.03)	0.20 (0.0)	0.24 Grams
F5.5-SI	0.22 (5.5)	0.09 (2.2)	0.28 (7.0)	-	-	-	-
F5-SIT	0.21 (5.4)	0.15 (3.8)	0.35 (9.0)	0.31 (8.0)	0.002 (0.03)	0.20 (0.0)	0.24 Grams
F6.5-SI	0.26 (6.5)	0.09 (2.2)	0.28 (7.0)	-	-	-	-
F7-SI	0.28 (7.0)	0.16 (4.0)	0.47 (12.0)	-	-	-	-
F7.5-SI	0.30 (7.5)	0.09 (2.2)	0.28 (7.0)	-	-	-	-
F8-SI	0.31 (8.0)	0.16 (4.0)	0.47 (12.0)	-	-	-	-
F9-SI	0.35 (9.0)	0.16 (4.0)	0.47 (12.0)	-	-	-	-

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Vacuum Cups and Suction Cups



Universal Style Flat Vacuum Suction Cups

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	Item Weight (Grams)
F9-SI-E	0.35 (9.0)	0.16 (4.0)	0.47 (12.0)	-	-	-	-
PF9-SI	0.35 (9.0)	0.18 (4.5)	0.47 (12.0)	-	-	-	-
PF9-ESD	0.35 (9.0)	0.18 (4.5)	0.47 (12.0)	-	-	-	-
PF9-NM	0.35 (9.0)	0.18 (4.5)	0.47 (12.0)	-	-	-	-
F10-NBR	0.40 (10.1)	0.19 (4.7)	0.42 (10.6)	0.37 (9.4)	0.003 (0.05)	0.60 (0.3)	0.51 Grams
F10-SIT	0.40 (10.1)	0.16 (4.0)	0.42 (10.6)	0.37 (9.4)	0.003 (0.05)	0.60 (0.3)	0.51 Grams
F10-NM	0.40 (10.1)	0.19 (4.7)	0.42 (10.6)	0.37 (9.4)	0.003 (0.05)	0.60 (0.3)	0.51 Grams
F13-SI	0.51 (13.0)	0.16 (4.0)	0.47 (12.0)	-	-	-	-
PFL13-SI	0.53 (13.35)	0.31 (8)	0.48 (12.25)	-	-	-	-
PFL13-ESD	0.53 (13.35)	0.31 (8)	0.48 (12.25)	-	-	-	-
PFL13-NM	0.53 (13.35)	0.31 (8)	0.48 (12.25)	-	-	-	-
PF13-SI	0.51 (13)	0.18 (4.5)	0.48 (12)	-	-	-	-
PF13-ESD	0.51 (13)	0.18 (4.5)	0.48 (12)	-	-	-	-
PF13-NM	0.51 (13)	0.18 (4.5)	0.48 (12)	-	-	-	-
F15-NBR	0.58 (14.7)	0.19 (4.9)	0.43 (10.9)	0.36 (9.1)	0.011 (0.18)	1.40 (0.6)	0.72 Grams
F15-SIT	0.58 (14.7)	0.19 (4.9)	0.43 (10.9)	0.36 (9.1)	0.011 (0.18)	1.40 (0.6)	0.72 Grams
F15-NM	0.58 (14.7)	0.19 (4.9)	0.43 (10.9)	0.36 (9.1)	0.011 (0.18)	1.40 (0.6)	0.51 Grams
PFL16-SI	0.65 (16.5)	0.31 (8)	0.48 (12.25)	-	-	-	-
PFL16-ESD	0.65 (16.5)	0.31 (8)	0.48 (12.25)	-	-	-	-

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Vacuum Cups and Suction Cups



Universal Style Flat Vacuum Suction Cups

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	Item Weight (Grams)
PFL16-NM	0.65 (16.5)	0.31 (8)	0.48 (12.25)	-	-	-	-
F20-NBR	0.79 (20.0)	0.16 (4.0)	0.45 (11.5)	0.33 (8.5)	0.027 (0.44)	2.20 (1.0)	1.13 Grams
F20-SIT	0.79 (20.0)	0.16 (4.0)	0.45 (11.5)	0.33 (8.5)	0.027 (0.44)	2.20 (1.0)	1.13 Grams
F20-NM	0.79 (20.0)	0.18 (4.5)	0.45 (11.5)	0.33 (8.5)	0.027 (0.44)	2.20 (1.0)	1.13 Grams
F25-NBR	0.99 (25.1)	0.16 (4.0)	0.48 (12.1)	0.38 (9.7)	0.430 (0.70)	3.10 (1.4)	1.50 Grams
F25-SIT	0.99 (25.1)	0.16 (4.0)	0.48 (12.1)	0.38 (9.7)	0.430 (0.70)	3.10 (1.4)	1.50 Grams
F25-NM	0.99 (25.1)	0.15 (3.8)	0.48 (12.1)	0.38 (9.7)	0.430 (0.70)	3.10 (1.4)	1.50 Grams
F30-NBR	1.17 (29.7)	0.31 (7.8)	0.75 (19.1)	0.63 (16.0)	0.177 (2.90)	4.90 (2.2)	4.40 Grams
F30-SIT	1.17 (29.7)	0.31 (7.8)	0.75 (19.1)	0.63 (16.0)	0.177 (2.90)	4.90 (2.2)	4.40 Grams
F35-NBR	1.42 (36.0)	0.31 (7.8)	0.79 (20.0)	0.63 (16.0)	0.165 (2.70)	7.00 (3.2)	6.30 Grams
F35-SIT	1.42 (36.0)	0.31 (7.8)	0.79 (20.0)	0.63 (16.0)	0.165 (2.70)	7.00 (3.2)	6.30 Grams
F40-NBR	1.56 (39.6)	0.31 (7.8)	0.79 (20.0)	0.63 (16.0)	0.250 (4.00)	9.50 (4.3)	7.50 Grams
F40-SIT	1.56 (39.6)	0.31 (7.8)	0.79 (20.0)	0.63 (16.0)	0.250 (4.00)	9.50 (4.3)	7.50 Grams
F52-NBR	2.05 (52.0)	0.31 (7.8)	0.87 (22.0)	0.69 (17.5)	0.427 (7.00)	15.10 (6.8)	13.4 Grams
F52-SIT	2.05 (52.0)	0.31 (7.8)	0.87 (22.0)	0.69 (17.5)	0.427 (7.00)	15.10 (6.8)	13.4 Grams
F60-NBR	2.36 (60.0)	0.31 (7.9)	0.87 (22.0)	0.69 (17.5)	0.752 (12.00)	23.00 (10.4)	17.3 Grams
F60-SIT	2.36 (60.0)	0.31 (7.9)	0.87 (22.0)	0.69 (17.5)	0.752 (12.00)	23.00 (10.4)	17.3 Grams
F77-NBR	2.94 (74.7)	0.46 (11.7)	1.24 (31.5)	1.02 (26.0)	0.976 (16.00)	36.20 (16.4)	35.0 Grams
F77-SIT	2.94 (74.7)	0.46 (11.7)	1.24 (31.5)	1.02 (26.0)	0.976 (16.00)	36.20 (16.4)	35.0 Grams

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Vacuum Cups and Suction Cups



Universal Style Flat Vacuum Suction Cups

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	Item Weight (Grams)
F85-NBR	3.30 (85.0)	0.48 (12.0)	1.20 (31.0)	1.02 (26.0)	1.85 (30.32)	39.00 (17.8)	40.9 Grams
F85-SIT	3.30 (85.0)	0.48 (12.0)	1.20 (31.0)	1.02 (26.0)	1.85 (30.32)	39.00 (17.8)	40.9 Grams
F95-NBR	3.74 (95.0)	0.47 (12.0)	1.46 (37.0)	1.02 (26.0)	2.899 (47.50)	42.30 (19.2)	49.0 Grams
F95-SIT	3.74 (95.0)	0.47 (12.0)	1.46 (37.0)	1.02 (26.0)	2.899 (47.50)	42.30 (19.2)	49.0 Grams

Notes:

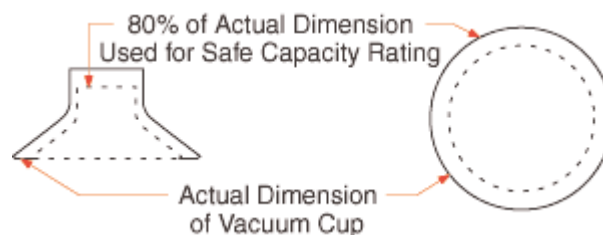
The cup capacities shown above (*) are theoretical capacities based on 24"Hg at sea level with a safety factor of two (2) and a $\pm 5\%$ margin of error. This is the US ANSI ASME Standard B30.20 for vacuum lifter specifications and is commonly used in North America as a design capacity for vacuum components. 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:

$$\text{Pull-off value (at 27"Hg)} = \text{ANVER's Listed Capacity} \times 2 \times 1.125 \text{ (at 24"Hg)}$$

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 $15.10 \times 2 \times 1.25 = 37.75$ 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.

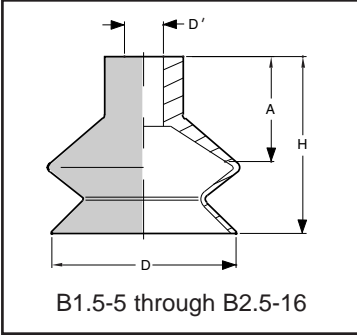




Single Bellows Suction Cups with Interchangeable Fittings For Horizontal and Vertical Handling of Concave and Convex Surfaces

1.5 Bellows Vacuum Suction Cups attach gently and easily with minimum pressure. Excellent for most concave and convex shapes, bellows suction cups attach to curvatures such as containers, bottles, cylinders, etc., and can be used in any orientation. Their spring action compensates for height variances in the load or machine inaccuracies. The bellows suction cup design duplicates the function of mechanical springs and ball-joint connectors in a much smaller and more economical package.

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



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)
B1.5-5-NBR	0.22 (5.5)	0.16 (4.0)	0.44 (11.1)	0.31 (8.0)	0.003 (0.04)	0.02 (0.07)	0.28 Grams
B1.5-5-SIT	0.22 (5.5)	0.16 (4.0)	0.44 (11.1)	0.31 (8.0)	0.003 (0.04)	0.02 (0.07)	0.28 Grams
B1.5-11-NBR	0.45 (11.4)	0.16 (4.0)	0.63 (16.0)	0.41 (10.5)	0.014 (0.23)	0.54 (0.24)	0.92 Grams
B1.5-11-SIT	0.45 (11.4)	0.16 (4.0)	0.63 (16.0)	0.41 (10.5)	0.014 (0.23)	0.54 (0.24)	0.92 Grams
B1.5-11-NM	0.45 (11.4)	0.16 (4.0)	0.63 (16.0)	0.41 (10.5)	0.014 (0.23)	0.54 (0.24)	0.92 Grams
B1.5-14-NBR	0.52 (13.3)	0.16 (4.0)	0.62 (15.8)	0.43 (11.0)	0.026 (0.42)	0.80 (0.36)	1.29 Grams
B1.5-14-SIT	0.52 (13.3)	0.16 (4.0)	0.62 (15.8)	0.43 (11.0)	0.026 (0.42)	0.80 (0.36)	1.29 Grams
B1.5-14-NM	0.52 (13.3)	0.16 (4.0)	0.62 (15.8)	0.43 (11.0)	0.026 (0.42)	0.80 (0.36)	1.29 Grams
B1.5-16-NBR	0.64 (16.3)	0.16 (4.0)	0.75 (19.0)	0.41 (10.5)	0.046 (0.75)	1.10 (0.50)	1.52 Grams
B1.5-16-SIT	0.64 (16.3)	0.20 (5.0)	0.75 (19.0)	0.41 (10.5)	0.046 (0.75)	1.10 (0.50)	1.52 Grams

Vacuum Cups and Suction Cups

Universal 1.5 Bellows Style Suction Cups



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)
B1.5-16-NM	0.64 (16.3)	0.20 (5.0)	0.75 (19.0)	0.41 (10.5)	0.046 (0.75)	1.10 (0.50)	1.52 Grams
B1.5-20-NBR	0.71 (18.0)	0.16 (4.0)	0.62 (15.8)	0.41 (10.5)	0.070 (1.20)	1.70 (0.80)	1.81 Grams
B1.5-20-SIT	0.71 (18.0)	0.16 (4.0)	0.62 (15.8)	0.41 (10.5)	0.070 (1.20)	1.70 (0.80)	1.81 Grams
B1.5-20-NM	0.71 (18.0)	0.16 (4.0)	0.62 (15.8)	0.41 (10.5)	0.070 (1.20)	1.70 (0.80)	1.81 Grams
B1.5-22-NBR	0.89 (22.5)	0.16 (4.0)	0.77 (19.5)	0.43 (11.0)	0.090 (1.40)	1.90 (0.90)	2.18 Grams
B1.5-22-SIT	0.89 (22.5)	0.16 (4.0)	0.77 (19.5)	0.43 (11.0)	0.090 (1.40)	1.90 (0.90)	2.18 Grams
B1.5-22-NM	0.89 (22.5)	0.19 (4.7)	0.77 (19.5)	0.43 (11.0)	0.090 (1.40)	1.90 (0.90)	2.18 Grams
B1.5-25-NBR	0.93 (23.5)	0.16 (4.0)	0.91 (23.0)	0.43 (11.0)	0.190 (3.20)	2.50 (1.10)	2.68 Grams
B1.5-25-SIT	0.93 (23.5)	0.16 (4.0)	0.91 (23.0)	0.43 (11.0)	0.190 (3.20)	2.50 (1.10)	2.68 Grams
B1.5-25-NM	0.93 (23.5)	0.16 (4.0)	0.91 (23.0)	0.43 (11.0)	0.190 (3.20)	2.50 (1.10)	2.68 Grams
B1.5-33-NBR	1.32 (33.5)	0.31 (8.0)	1.10 (28.0)	0.65 (16.5)	0.290 (4.80)	4.30 (2.00)	8.20 Grams
B1.5-33-SIT	1.32 (33.5)	0.31 (8.0)	1.10 (28.0)	0.65 (16.5)	0.290 (4.80)	4.30 (2.00)	8.20 Grams
B1.5-43-NBR	1.67 (42.3)	0.31 (8.0)	1.10 (28.0)	0.61 (15.5)	0.560 (9.30)	7.00 (3.30)	12.4 Grams
B1.5-43-SIT	1.67 (42.3)	0.31 (8.0)	1.10 (28.0)	0.61 (15.5)	0.560 (9.30)	7.00 (3.30)	12.4 Grams
B1.5-53-NBR	2.07 (52.5)	0.31 (8.0)	1.34 (34.0)	0.75 (19.0)	1.600 (26.30)	13.30 (6.00)	20.7 Grams
B1.5-53-SIT	2.07 (52.5)	0.31 (8.0)	1.34 (34.0)	0.75 (19.0)	1.600 (26.30)	13.30 (6.00)	20.7 Grams
B1.5-63-NBR	2.49 (63.2)	0.31 (8.0)	1.32 (33.5)	0.51 (13.0)	2.400 (39.00)	18.00 (8.20)	28.0 Grams
B1.5-63-SIT	2.49 (63.2)	0.31 (8.0)	1.32 (33.5)	0.51 (13.0)	2.400 (39.00)	18.00 (8.20)	28.0 Grams
B1.5-78-NBR	3.07 (78.0)	0.47 (12.0)	1.85 (47.0)	1.29 (32.8)	4.640 (76.00)	28.00 (13.10)	65.8 Grams

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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)
B1.5-78-SIT	3.07 (78.0)	0.47 (12.0)	1.85 (47.0)	1.29 (32.8)	4.640 (76.00)	28.00 (13.10)	65.8 Grams

Notes:

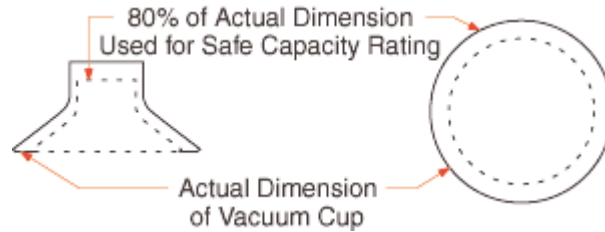
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Other manufacturers use a pull-off figure at 27"Hg to show a high capacity value for their cups. This is accurate, but requires users to do all the math themselves to build in safety factors. The values are basically the same, but it is necessary to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

$$\text{Pull-off value (at 27"Hg)} = \text{ANVER's Listed Capacity} \times 2 \times 1.125 \text{ (at 24"Hg)}$$

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 $15.10 \times 2 \times 1.25 = 37.75$ 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.



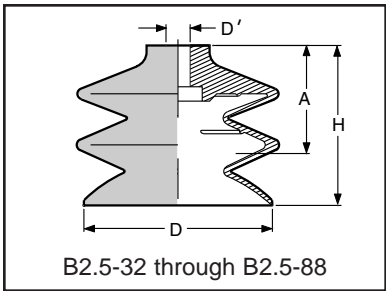
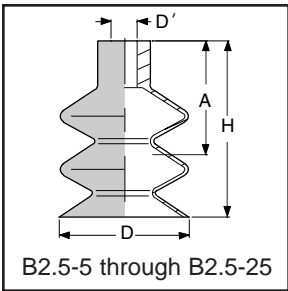


Double Bellows Suction Cups with Interchangeable Fittings For Horizontal and Vertical Handling of Concave and Convex Surfaces

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.



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

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Vacuum Cups and Suction Cups



Universal 2.5 Bellows Style Vacuum Suction Cups

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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Vacuum Cups and Suction Cups

Universal 2.5 Bellows Style Vacuum Suction Cups

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:

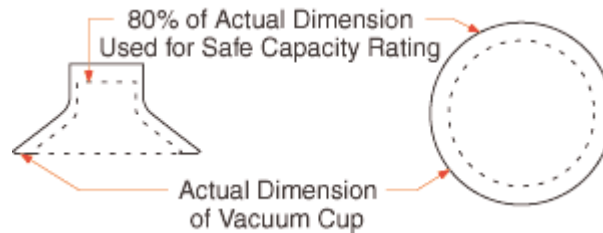
The cup capacities shown above (*) are theoretical capacities based on 24"Hg at sea level with a safety factor of two (2) and a ± 5% margin of error. This is the US ANSI ASME Standard B30.20 for vacuum lifter specifications and is commonly used in North America as a design capacity for vacuum components. 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.

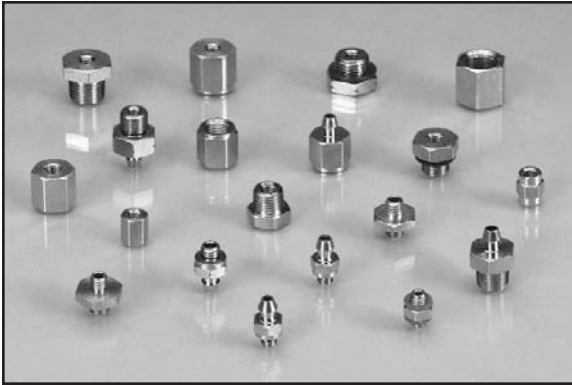
Other manufacturers use a pull-off figure at 27"Hg to show a high capacity value for their cups. This is accurate, but requires users to do all the math themselves to build in safety factors. The values are basically the same, but it is necessary to calculate the working capacities with a safety factor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

$$\text{Pull-off value (at 27"Hg)} = \text{ANVER's Listed Capacity} \times 2 \times 1.125 \text{ (at 24"Hg)}$$

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 $15.10 \times 2 \times 1.25 = 37.75$ lbs. From this point, it is necessary to calculate the safety factor based on the vacuum level being used, and the altitude.

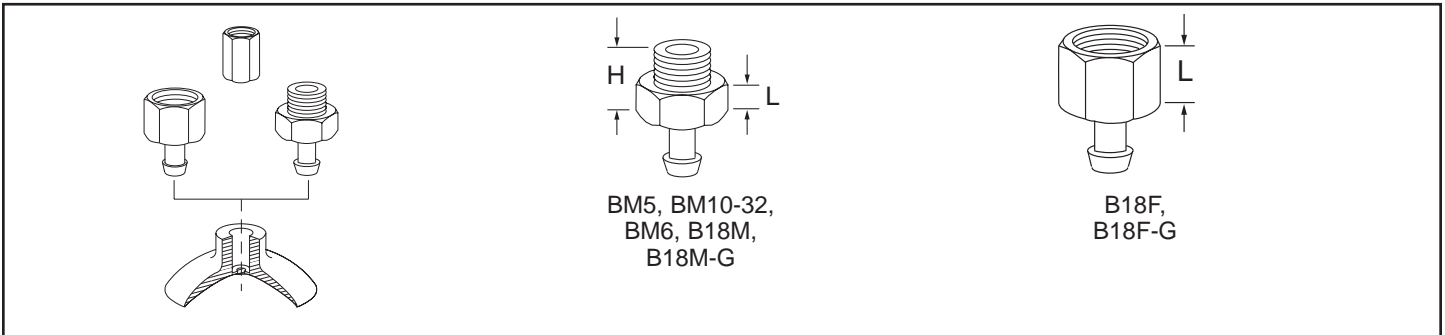
To ensure safety, 80% of actual overall diameter is used when determining Load Capacity.



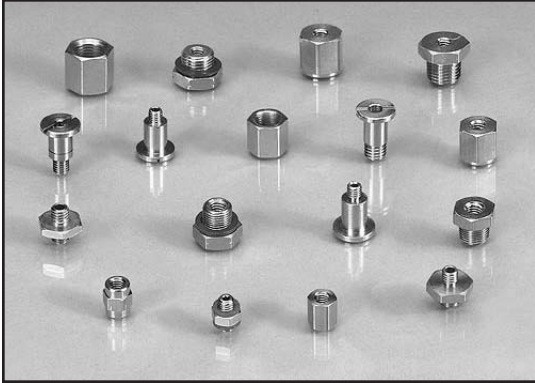


Barbed Vacuum Cup Fittings which Push In from the Top

- ANVER divides small universal vacuum suction cups into three groups based on mounting specifications and style. The Group 1 Fittings shown here are simple barbed fittings that push in from the top of the cup.
- Within each vacuum fitting group, the hardware is interchangeable with all other cups within the group. Any Group 1 fitting will fit any Group 1 cup. It may also fit other cups with similarly sized holes in the cups' centers. Contact the factory to verify suitability.
- These all-metal, electro-less nickel-plated brass fittings are reusable. Once you buy the cups with fittings you only need to buy replacement rubber cups in the future.
- The cup is simply pressed onto the end of the barbed fitting to hold tight. Replacement takes only a few seconds, and does not require unscrewing the fitting.

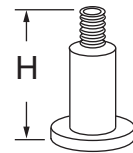
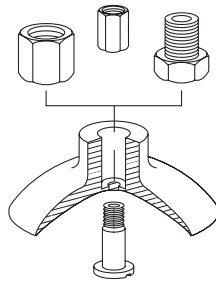


ANVER Item No.	Connection Thread Size	Thru Hole Dia. or Thread in. (mm)	Hex Size in. (mm)	L Height Added to Assembly in. (mm)	H Height in. (mm)
BM5	M5 (5 mm) male	0.09 (2.3)	0.31 (8)	0.20 (5)	0.35 (9.0)
BM10-32	10-32 UNF male	0.10 (2.5)	0.31 (8)	0.20 (5)	0.35 (9.0)
BM6	M6 (6 mm) male	0.13 (3.4)	0.38 (9.5)	0.20 (5)	0.39 (10.0)
B18F-G	G1/8" female	0.13 (3.6)	0.55 (14)	0.47 (12)	-
B18F	1/8" NPT female	0.17 (4.2)	0.5 (12.6)	0.47 (12)	-
B18M	1/8" NPT male 10-32 UNF female	0.17 (4.2)	0.5 (12.6)	0.21 (5.2)	0.51 (13.0)
B18M-G	G1/8" male M5 (5 mm) female	0.14 (3.5)	0.55 (14)	0.24 (6)	0.53 (13.5)



Barbed Fittings which Push In from the Bottom for ANVER Universal Group 2 Suction Cups

- ANVER divides small universal vacuum suction cups into three groups based on mounting specifications and style. The Group Two Fittings shown here are those that push in from the bottom, exposing a male thread at the top of the cup.
- Within each vacuum fitting group, the hardware is interchangeable with all other cups within the group. Any Group 2 fitting will fit any Group 2 cup.
- These all-metal, electro-less nickel-plated brass fittings are reusable. Once you buy the cups with fittings you only need to buy replacement rubber cups in the future.
- The cup is held from the bottom flange of the fitting which is screwed into a female connection above the cup to hold it tight. Replacement takes only a few seconds and requires that you unscrew the fitting, replace the cup, and screw the fitting back on. You can usually do this by hand, by grasping the rubber cup and fitting and turning. However, should you desire, you can also use a screw driver from below the cup.



HS5, HS6,
HS10-32, HS8

ANVER Item No.	Connection Thread Size	Thru Hole Dia. or Thread in. (mm)	H Height in. (mm)
HS5	M5 (5 mm) male	0.11 (2.7)	0.71 (18)
HS6	M6 (6 mm) male	0.14 (3.5)	0.79 (20)
HS10-32	10-32 UNF male	0.10 (2.5)	0.71 (18)
HS8	M8 (8 mm) male	0.20 (5.1)	0.79 (20)



Barbed Fittings which Push In from the Bottom for ANVER Universal Group 3 Suction Cups

- ANVER divides small universal vacuum suction cups into three groups based on mounting specifications and style. The Group 3 Fittings shown here are those that push in from the bottom, exposing a male thread at the top of the cup.
- Within each vacuum fitting group, the hardware is interchangeable with all other cups within the group. Any Group 3 fitting will fit any Group 3 cup.
- These all-metal, electro-less nickel-plated brass fittings are reusable. Once you buy the cups with fittings you only need to buy replacement rubber cups in the future.
- The cup is held from the bottom flange of the fitting which is screwed into a female connection above the cup to hold it tight. Replacement takes only a few seconds and requires that you unscrew the fitting, replace the cup, and screw the fitting back on. You can usually do this by hand, by grasping the rubber cup and fitting and turning. However, should you desire, you can also use a screw driver from below the cup.



ANVER Item No.	Connection Thread Size	Thru Hole Dia. in. (mm)	H Height in. (mm)
HS18	1/8" NPT male	0.23 (5.9)	1.14 (29)
HS18-SV-SS	1/8" NPT male	0.23 (5.9)	1.14 (29)
HS18-SV-LL	1/8" NPT male	0.23 (5.9)	1.14 (29)
HS18G	G 1/8" male	0.23 (5.9)	1.14 (29)
HS18-G-SV-SS	G 1/8" male	0.23 (5.9)	1.14 (29)
HS18-G-SV-LL	G 1/8" male	0.23 (5.9)	1.14 (29)

Vacuum Cup Suspension Assemblies

SLSA-1 Series (M5-10/32 UNF Thread)



ANVER Vacuum Suction Cups can be mounted to most vacuum systems using Spring Loaded Suspension Assemblies. These are high quality, well finished and designed for high speed automation applications. Adjustable bulkhead fittings mount to almost any lifting frame while a variety of tube fittings are available to connect to the vacuum generating system. These unique mounting systems act as extensions while providing support while handling a load. Some of the advantages of Suspension Assemblies include:

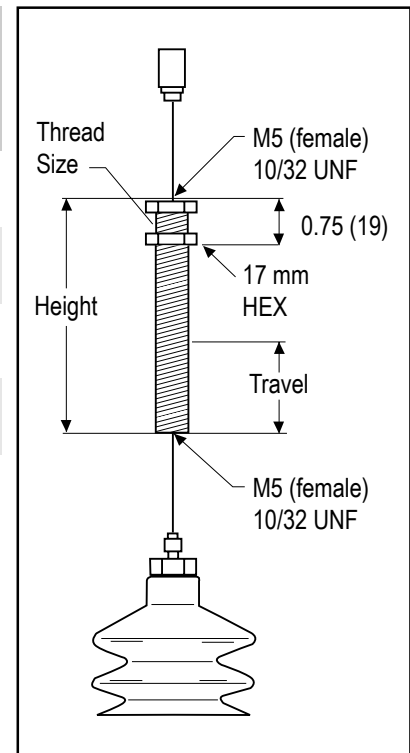
- Suspensions reduce machine indexing when picking up material from a stack.
- They compensate for variations in object height and offer a soft touch attach.
- Shock and noise to an object and machine is minimized.
- Cup pressure is consistent on each pick up which increases the cups life.
- Suspensions can provide an easy way to interface the vacuum cup and vacuum lines to the machine tooling.

Our SLSA-1 Series connect to the vacuum system via M5, 10/32 UNF female threads. For 1/8" NPT male threads use our SLSA-2 series.

ANVER can adapt these vacuum cup suspensions to your particular needs with tube fittings, mini vacuum generators, sensing valves and custom adapters. Please contact our technical sales department for assistance.

Components	Rotating	Non-Rotating
Suspension Tube:	Nickel-Plated Steel	Nickel-Plated Steel
Springs:	Stainless Steel	Stainless Steel
Bulkhead Thread:	Nickel-Plated Brass	Stainless Steel
Panel Nuts:	Nickel-Plated Brass	Stainless Steel

ANVER Item No.	Connection Thread Size	Fitting Group	Travel in. (mm)	Height in. (mm)	Required Panel Hole Dia. in. (mm)	Max. Panel Thickness in. (mm)
SLSA-105 Rotating	M5 (female) 10/32 UNF	1 & 2	0.20 (5)	1.14 (29)	0.51 (13)	0.43 (11)
A-3350068 Rotating	M5 (female) 10/32 UNF	1 & 2	0.39 (10)	1.69 (43)	0.39 (10)	0.56 (14)
SLSA-110NR Non-Rotating	M5 (female) 10/32 UNF	1 & 2	0.39 (10)	1.54 (39)	0.51 (13)	0.43 (11)
SLSA-120NR Non-Rotating	M5 (female) 10/32 UNF	1 & 2	0.79 (20)	2.32 (59)	0.51 (13)	0.43 (11)
SLSA-130NR Non-Rotating	M5 (female) 10/32 UNF	1 & 2	1.18 (30)	3.11 (79)	0.51 (13)	0.43 (11)

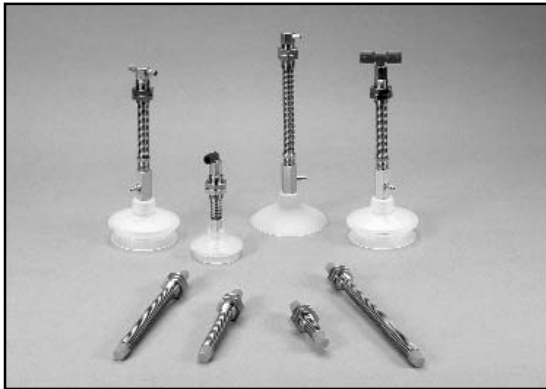


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Vacuum Cup Suspension Assemblies



SLSA-2 Series (G 1/8" Thread)



ANVER Vacuum Suction Cups can be mounted to most vacuum systems using Spring Loaded Suspension Assemblies. These are high quality, well finished and designed for high speed automation applications. Adjustable bulkhead fittings mount to almost any lifting frame while a variety of tube fittings are available to connect to the vacuum generating system. These unique mounting systems act as extensions while providing support while handling a load. Some of the advantages of Suspension Assemblies include:

- Suspensions reduce machine indexing when picking up material from a stack.
- They compensate for variations in object height and offer a soft touch attach.
- Shock and noise to an object and machine is minimized.
- Cup pressure is consistent on each pick up which increases the cups life.
- Suspensions can provide an easy way to interface the vacuum cup and vacuum lines to the machine tooling.

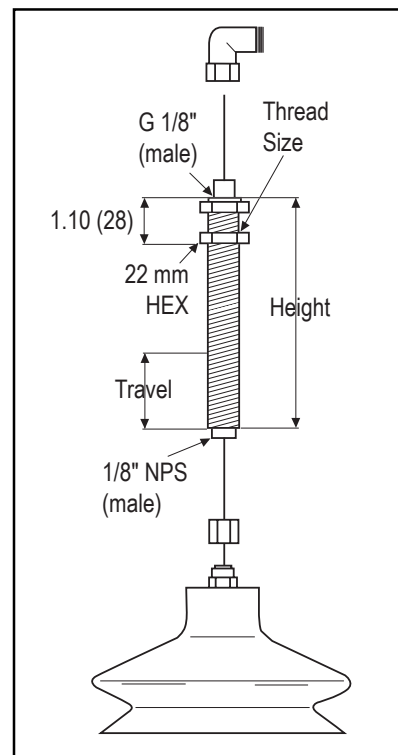
The SLSA-2 Series connects to the vacuum system via 1/8" NPT Male thread. For M5 Threads, see our SLSA-1 Series.

ANVER can adapt these vacuum cup suspensions to your particular needs with tube fittings, mini vacuum generators, sensing valves and custom adapters. Please contact our technical sales department for assistance.

Materials:

Components	Rotating	Non-Rotating
Suspension Tube:	Nickel-Plated Steel	Nickel-Plated Steel
Springs:	Stainless Steel	Stainless Steel
Bulkhead Thread:	Nickel-Plated Brass	Stainless Steel
Panel Nuts:	Nickel-Plated Brass	Stainless Steel

ANVER Item No.	Fitting Group	Travel in. (mm)	Height in. (mm)	Required Panel Hole Dia. in. (mm)	Max. Panel Thickness in. (mm)
SLSA-210NR	2 & 3	0.39 (10)	1.85 (47)	0.63 (16)	0.51 (13)
A-3350069	2 & 3	0.79 (20)	3.15 (80)	0.63 (16)	1.06 (27)
SLSA-230NR	2 & 3	1.18 (30)	3.45 (88)	0.63 (16)	0.51 (13)
SLSA-250NR	2 & 3	1.97 (50)	4.99 (127)	0.63 (16)	0.51 (13)
SLSA-270NR	2 & 3	2.76 (70)	6.61 (168)	0.63 (16)	0.51 (13)



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Vacuum Cup Suspension Assemblies



SLSA-3 Series



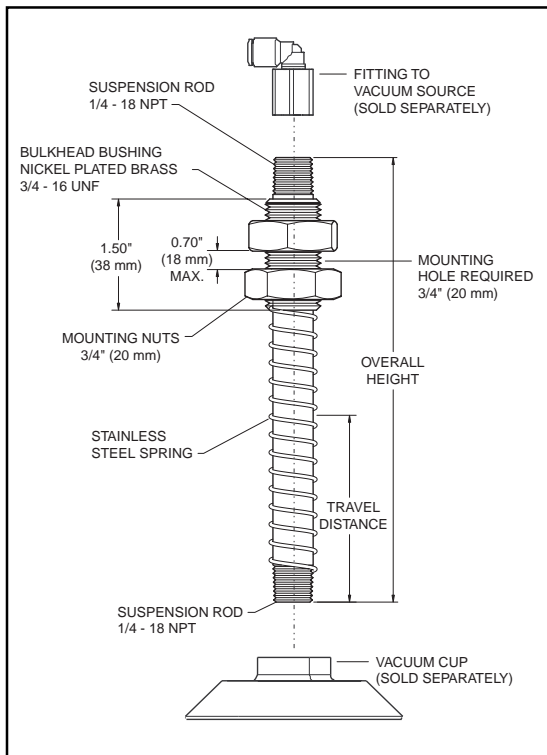
ANVER can adapt these vacuum cup suspensions to your particular needs with tube fittings, mini vacuum generators, sensing valves and custom adapters. Please contact our technical sales department for assistance.

ANVER Vacuum Suction Cups can be mounted to most vacuum systems using Spring Loaded Suspension Assemblies. These are high quality, well finished and designed for high speed automation applications. Adjustable bulkhead fittings mount to almost any lifting frame while a variety of tube fittings are available to connect to the vacuum generating system. These unique mounting systems act as extensions while providing support while handling a load. Some of the advantages of Suspension Assemblies include:

- Suspensions reduce machine indexing when picking up material from a stack.
- They compensate for variations in object height and offer a soft touch attach.
- Shock and noise to an object and machine is minimized.
- Cup pressure is consistent on each pick up which increases the cups life.
- Suspensions can provide an easy way to interface the vacuum cup and vacuum lines to the machine tooling.

Materials:

Suspension Rod:	Stainless Steel
Springs:	Stainless Steel
Bulkhead Thread:	Nickel-Plated Brass
Mounting Nuts:	Plated Steel



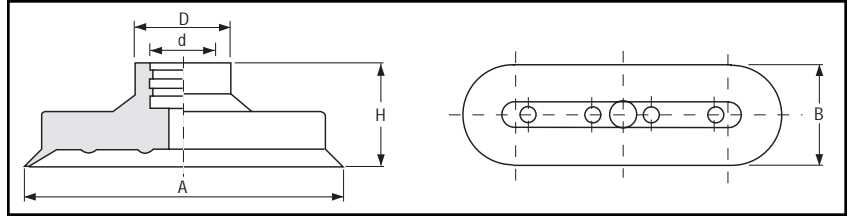
ANVER Item No.	Connection Thread Size	Travel in. (mm)	Height in. (mm)	Required Panel Hole Dia. in. (mm)	Maximum Panel Thickness in. (mm)
SLSA-330	1/4" 18 NPT male	1.94 (49)	4.00 (102)	3/4 (20)	0.70 (18 mm)
SLSA-370	1/4" 18 NPT male	3.10 (79)	6.00 (152)	3/4 (20)	0.70 (18 mm)
SLSA-399	1/4" 18 NPT male	4.75 (120)	8.00 (203)	3/4 (20)	0.70 (18 mm)

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ANVER stocks a large variety of small oval vacuum suction cups to suit your vacuum lifting needs. Our Small OC Series Vacuum Suction Cups are best suited for handling small round or cylindrical oblong surfaces such as pens, tubing, or bottles. These vacuum suction cups are available in numerous sizes and materials for use on many small item material handling applications.

The cups are listed with the appropriate Series 1 or 2 fitting and Level Compensators on the right. Each fitting has a number of Level Compensators available. The Level Compensators needed for these cups are Anver "NR" non-rotating type. This keeps the cup from spinning out of position.



ANVER Item No. and Material	A Length in. (mm)	B Width in. (mm)	D O.D. in. (mm)	d I.D. in. (mm)	H Height in. (mm)	Associated Fitting No. / Type	Associated Level Compensator/ Suspension
OC7-10-NBR Nitrile	0.39 (10)	0.27 (7)	0.27 (7)	0.20 (5)	0.27 (7)	BF7FL-OR	SLSA-1
OC7-10-SIT Silicone	0.39 (10)	0.27 (7)	0.27 (7)	0.20 (5)	0.27 (7)	BF7FL-OR	SLSA-1
OC5-15-NBR Nitrile	0.59 (15)	0.20 (5)	0.31 (8)	0.20 (5)	0.47 (12)	BF7FL-OR	SLSA-1
OC5-15-SIT Silicone	0.59 (15)	0.20 (5)	0.31 (8)	0.20 (5)	0.47 (12)	BF7FL-OR	SLSA-1
OC6-18-NBR Nitrile	0.71 (18)	0.24 (6)	0.31 (8)	0.20 (5)	0.47 (12)	BF7FL-OR	SLSA-1
OC6-18-SIT Silicone	0.71 (18)	0.24 (6)	0.31 (8)	0.20 (5)	0.47 (12)	BF7FL-OR	SLSA-1
OC8-24-NBR Nitrile	0.95 (24)	0.31 (8)	0.47 (12)	0.20 (5)	0.47 (12)	BF7FL-OR or 1/8" OC-Fittings	SLSA-1 or SLSA-2
OC8-24-SIT Silicone	0.95 (24)	0.31 (8)	0.47 (12)	0.20 (5)	0.47 (12)	BF7FL-OR or 1/8" OC-Fittings	SLSA-1 or SLSA-2
OC10-30-NBR Nitrile	1.18 (30)	0.39 (10)	0.47 (12)	0.20 (5)	0.47 (12)	BF7FL-OR or 1/8" OC-Fittings	SLSA-1 or SLSA-2
OC10-30-SIT Silicone	1.18 (30)	0.39 (10)	0.47 (12)	0.20 (5)	0.47 (12)	BF7FL-OR or 1/8" OC-Fittings	SLSA-1 or SLSA-2
OC12-36-NBR Nitrile	1.42 (36)	0.47 (12)	0.47 (12)	0.20 (5)	0.47 (12)	BF7FL-OR or 1/8" OC-Fittings	SLSA-1 or SLSA-2
OC12-36-SIT Silicone	1.42 (36)	0.47 (12)	0.47 (12)	0.20 (5)	0.47 (12)	BF7FL-OR or 1/8" OC-Fittings	SLSA-1 or SLSA-2

Vacuum Cups and Suction Cups



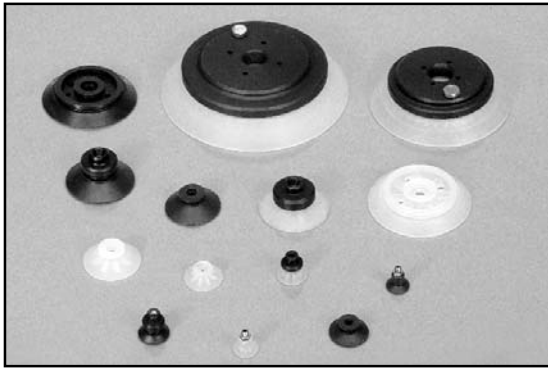
Small Oval Vacuum Suction Cups

ANVER Item No. and Material	A Length in. (mm)	B Width in. (mm)	D O.D. in. (mm)	d I.D. in. (mm)	H Height in. (mm)	Associated Fitting No. / Type	Associated Level Compensator/ Suspension
OC15-45-NBR Nitrile	1.77 (45)	0.59 (15)	0.67 (17)	0.43 (11)	0.83 (21)	1/8" OC-Fittings	SLSA-2
OC15-45-SIT Silicone	1.77 (45)	0.59 (15)	0.67 (17)	0.43 (11)	0.83 (21)	1/8" OC-Fittings	SLSA-2
OC20-60-NBR Nitrile	2.36 (60)	0.79 (20)	0.71 (18)	0.43 (11)	0.83 (21)	1/8" OC-Fittings	SLSA-2
OC20-60-SIT Silicone	2.36 (60)	0.79 (20)	0.71 (18)	0.43 (11)	0.83 (21)	1/8" OC-Fittings	SLSA-2
OC25-75-NBR Nitrile	2.95 (75)	0.98 (25)	0.71 (18)	0.43 (11)	0.83 (21)	1/8" OC-Fittings	SLSA-2
OC25-75-SIT Silicone	2.95 (75)	0.98 (25)	0.71 (18)	0.43 (11)	0.83 (21)	1/8" OC-Fittings	SLSA-2
OC28-85-NBR Nitrile	3.35 (85)	1.10 (28)	0.71 (18)	0.43 (11)	0.83 (21)	1/8" OC-Fittings	SLSA-2
OC28-85-SIT Silicone	3.35 (85)	1.10 (28)	0.71 (18)	0.43 (11)	0.83 (21)	1/8" OC-Fittings	SLSA-2
OC35-100-NBR Nitrile	3.94 (100)	1.38 (35)	0.71 (18)	0.43 (11)	0.83 (21)	1/8" OC-Fittings	SLSA-2
OC35-100-SIT Silicone	3.94 (100)	1.38 (35)	0.71 (18)	0.43 (11)	0.83 (21)	1/8" OC-Fittings	SLSA-2



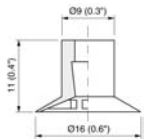
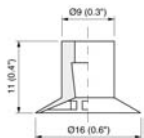
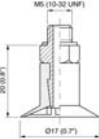
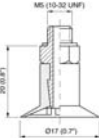
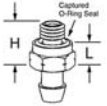
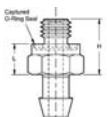
Vacuum Cups and Suction Cups

Generic P-Style / F Series Flat Vacuum Cups



ANVER-Made Generic Replacements of P-Style Vacuum Cups and Suction Cups

Ideal for use on plane surfaces, where minimum movement is required to maintain the pick-up area, and for support of pliable materials. Available in sizes from 0.65 to 6.13 inches (16.6 to 155.6mm).

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Static* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator/ Suspension
F15 Cups						
F15-NEO A-3150125		0.65 (16.6)	0.40 (11.0)	1.11 (0.50)	2.50 (1.13)	SLSA-1 Suspensions
F15-SIT A-3150125S		0.65 (16.6)	0.40 (11.0)	1.11 (0.50)	2.50 (1.13)	SLSA-1 Suspensions
F15 Cups with 10-15 Fitting						
F15-NEO/ FITTING A-3150014		0.65 (16.5)	0.8 (20.0)	1.11 (0.50)	2.50 (1.13)	SLSA-1 Suspensions
F15-SIT/ FITTING A-3150014S		0.65 (16.5)	0.8 (20.0)	1.11 (0.50)	2.50 (1.13)	SLSA-1 Suspensions
Fittings for F15 Cups						
BM5 FITTING M5 MALE Replaces 10-15 FITTING A-3107030		The BM5 FITTING M5 MALE is an improved 5 mm male fitting with captured O-ring which replaces the older 10-15 FITTING M5 MALE. It allows you to screw directly into any of the SLSA-1 Suspensions.				SLSA-1 Suspensions
10-32 FITTING UNF MALE BM10-32		The 10-32 Fitting UNF Male is a 10-32 UNF Male fitting. It allows you to screw directly into any of the SLSA-1 Suspensions. Fits all the same cups as the 10-15 Fitting above, but in a 10-32 UNF version. Comes with captured O-ring for a vacuum tight seal. Popular alternate fitting for the North American market.				SLSA-1 Suspensions

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Vacuum Cups and Suction Cups



Generic P-Style / F Series Flat Vacuum Cups

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Static* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator/ Suspension
F20 Cups						
F20-NEO A-3150126		0.87 (22.1)	0.30 (8.0)	1.87 (0.85)	4.20 (1.91)	SLSA-1 or 2 Suspensions
F20-SIT A-3150126S		0.87 (22.1)	0.30 (8.0)	1.87 (0.85)	4.20 (1.91)	SLSA-1 or 2 Suspensions
F20 Cups with 20-30 Fitting						
F20-NEO/1PC FITTING A-3150015A		0.87 (22.1)	0.70 (18.0)	1.87 (0.85)	4.20 (1.91)	SLSA-1 or 2 Suspensions
F20-SIT/1PC FITTING A-3150015SA		0.87 (22.1)	0.70 (18.0)	1.87 (0.85)	4.20 (1.91)	SLSA-1 or 2 Suspensions
F20 Cups with 20-30 Connection Plate						
F20-NEO/FIT/ SCREEN A-3150015		0.87 (22.1)	0.60 (16.0)	1.87 (0.85)	4.20 (1.91)	SLSA-1 or 2 Suspensions
F20-SIT/FIT/ SCREEN A-3150015S		0.87 (22.1)	0.60 (16.0)	1.87 (0.85)	4.20 (1.91)	SLSA-1 or 2 Suspensions
Fittings for F20 Cups						
20-30 FITTING A-3150196		For SLSA-1 Suspensions, use the HSHN5 Double Male 5 mm adapter. For SLSA-2 Suspensions, use the HS18-18F-G Double Female G 1/8" adapter.				SLSA-1 or 2 Suspensions
20-30 STRENGTHENING RING SILICONE A-0101084		The 20-30 Strengthening Ring is used with the above 20-30 Fitting. It simply stretches on and snaps in place. Included with cups which use the one-piece fitting.				SLSA-1 or 2 Suspensions

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Vacuum Cups and Suction Cups

Generic P-Style / F Series Flat Vacuum Cups

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Static* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator/ Suspension
Fittings for F20 Cups						
20-30 CONNECTION PLATE A-3150141				For SLSA-1 Suspensions, use the HSHN5 Double Male 5 mm adapter. For SLSA-2 Suspensions, use the HS18-18F-G Double Female G 1/8" adapter.		SLSA-1 or 2 Suspensions
20-30 LOCKING SPACER A-3150140				The 20-30 Locking Spacer is used with the above 20-30 Connection Plate. It presses in from the bottom.		SLSA-1 or 2 Suspensions
F25 Cups						
F25-NEO A-3150127		1.08 (27.5)	0.30 (9.0)	2.49 (1.13)	5.60 (2.54)	SLSA-1 or 2 Suspensions
F25-SIT A-3150127S		1.08 (27.5)	0.30 (9.0)	2.49 (1.13)	5.60 (2.54)	SLSA-1 or 2 Suspensions
F25 Cups with 20-30 Fitting						
F25-NEO/1PC FITTING A-3150016A		1.08 (27.5)	0.70 (19.0)	2.49 (1.13)	5.60 (2.54)	SLSA-1 or 2 Suspensions
F25-SIT/1PC FITTING A-3150016SA		1.08 (27.5)	0.70 (19.0)	2.49 (1.13)	5.60 (2.54)	SLSA-1 or 2 Suspensions
F25 Cups with 20-30 Connection Plate						
F25-NEO/FIT/SCREEN A-3150016		1.08 (27.5)	0.70 (17.0)	2.49 (1.13)	5.60 (2.54)	SLSA-1 or 2 Suspensions
F25-SIT/FIT/SCREEN A-3150016S		1.08 (27.5)	0.70 (17.0)	2.49 (1.13)	5.60 (2.54)	SLSA-1 or 2 Suspensions

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Vacuum Cups and Suction Cups



Generic P-Style / F Series Flat Vacuum Cups

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Static* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator/ Suspension
Fittings for F25 Cups						
20-30 FITTING A-3150196				For SLSA-1 Suspensions, use the HSHN5 Double Male 5 mm adapter. For SLSA-2 Suspensions, use the HS18-18F-G Double Female G 1/8" adapter.		SLSA-1 or 2 Suspensions
20-30 STRENGTHENING RING SILICONE A-0101084				The 20-30 Strengthening Ring is used with the above 20-30 Fitting. It simply stretches on and snaps in place. Included with cups which use the one-piece fitting.		SLSA-1 or 2 Suspensions
20-30 CONNECTION PLATE A-3150141				For SLSA-1 Suspensions, use the HSHN5 Double Male 5 mm adapter. For SLSA-2 Suspensions, use the HS18-18F-G Double Female G 1/8" adapter.		SLSA-1 or 2 Suspensions
20-30 LOCKING SPACER A-3150140				The 20-30 Locking Spacer is used with the above 20-30 Connection Plate. It presses in from the bottom.		SLSA-1 or 2 Suspensions
F30 Cups						
F30-NEO A-3150239		1.25 (31.6)	0.40 (10.0)	3.11 (1.41)	7.00 (3.18)	SLSA-1 or 2 Suspensions
F30-SIT A-3150239S		1.25 (31.6)	0.40 (10.0)	3.11 (1.41)	7.00 (3.18)	SLSA-1 or 2 Suspensions
F30 Cups with 20-30 Fitting						
F30-NEO/1 PC FITTING A-3250036A		1.25 (31.6)	0.70 (17.0)	3.11 (1.41)	7.00 (3.18)	SLSA-1 or 2 Suspensions
F30-SIT/1PC FITTING A-3250036SA		1.25 (31.6)	0.70 (17.0)	3.11 (1.41)	7.00 (3.18)	SLSA-1 or 2 Suspensions

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Vacuum Cups and Suction Cups

Generic P-Style / F Series Flat Vacuum Cups

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Static* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator/ Suspension
F30 Cups with 20-30 Connection Plate						
F30-NEO/FIT/SCREEN A-3250036		1.25 (31.6)	0.70 (18.0)	3.11 (1.41)	7.00 (3.18)	SLSA-1 or 2 Suspensions
F30-SIT/FIT/SCREEN A-3250036S		1.25 (31.6)	0.70 (18.0)	3.11 (1.41)	7.00 (3.18)	SLSA-1 or 2 Suspensions
Fittings for F30 Cups						
20-30 FITTING A-3150196		For SLSA-1 Suspensions, use the HSHN5 Double Male 5 mm adapter. For SLSA-2 Suspensions, use the HS18-18F-G Double Female G 1/8" adapter.				SLSA-1 or 2 Suspensions
20-30 STRENGTHENING RING SILICONE A-0101084		The 20-30 Strengthening Ring is used with the above 20-30 Fitting. It simply stretches on and snaps in place. Included with cups which use the one-piece fitting.				SLSA-1 or 2 Suspensions
20-30 CONNECTION PLATE A-3150141		For SLSA-1 Suspensions, use the HSHN5 Double Male 5 mm adapter. For SLSA-2 Suspensions, use the HS18-18F-G Double Female G 1/8" adapter.				SLSA-1 or 2 Suspensions
20-30 LOCKING SPACER A-3150140		The 20-30 Locking Spacer is used with the above 20-30 Connection Plate. It presses in from the bottom.				SLSA-1 or 2 Suspensions
F40 Cups						
F40-NEO A-3150129P		1.66 (42.1)	0.50 (13.0)	4.89 (2.22)	11.00 (4.99)	SLSA-2 Suspensions
F40-SIT A-3150129S		1.66 (42.1)	0.50 (13.0)	4.89 (2.22)	11.00 (4.99)	SLSA-2 Suspensions

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Vacuum Cups and Suction Cups



Generic P-Style / F Series Flat Vacuum Cups

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Static* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator/ Suspension
F40 Cups with 40/30-2/BL30 Fitting						
F40-NEO/1PC FITTING A-3150018PA		1.66 (42.1)	0.80 (21.0)	4.89 (2.22)	11.00 (4.99)	SLSA-2 Suspensions
F40-SIT/1PC FITTING A-3150018SA		1.66 (42.1)	0.80 (21.0)	4.89 (2.22)	11.00 (4.99)	SLSA-2 Suspensions
F40 Cups with 40 Connection Plate						
F40-NEO/FIT/SCREEN A-3150018P		1.66 (42.1)	0.90 (22.0)	4.89 (2.22)	11.00 (4.99)	SLSA-2 Suspensions
F40-SIT/FIT/SCREEN A-3150018S		1.66 (42.1)	0.90 (22.0)	4.89 (2.22)	11.00 (4.99)	SLSA-2 Suspensions
Fittings for F40 Cups						
40/30-2/BL30 FITTING A-3250001		The 40/30-2/BL30 FITTING uses a Strengthening Ring 40. It allows you to screw directly into any of the SLSA-2 Suspensions which have a male G 1/8" NPS Thread.				SLSA-2 Suspensions
STRENGTHENING RING SILICONE 40 A-0101085		The Strengthening Ring 40 is used with the above 40/30-2/BL30 Fitting. It simply stretches on and snaps in place. Included with cups which use the one-piece fitting.				SLSA-2 Suspensions
40 CONNECTION PLATE A-3150143		The 40 Connection Plate uses a 40 Locking Spacer. It allows you to screw directly into any of the SLSA-2 Suspensions which have a male G 1/8" Thread.				SLSA-2 Suspensions
40 LOCKING SPACER A-3150142		The 40 Locking Spacer is used with the above 40 Connection Plate. It presses in from the bottom.				SLSA-2 Suspensions

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Vacuum Cups and Suction Cups

Generic P-Style / F Series Flat Vacuum Cups

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Static* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator/ Suspension
F50 Cups						
F50-NEO A-3150130P		2.10 (52.8)	0.70 (17.5)	9.33 (4.23)	21.00 (9.53)	SLSA-2 Suspensions
F50-SIT A-3150130S		2.10 (52.8)	0.70 (17.5)	9.33 (4.23)	21.00 (9.53)	SLSA-2 Suspensions
F50 Cups with 50 Fitting						
F50-NEO/1PC FITTING A-3150019PA		2.10 (52.8)	1.10 (27.0)	9.33 (4.23)	21.00 (9.53)	SLSA-2 Suspensions
F50-SIT/1PC FITTING A-3150019SA		2.10 (52.8)	1.10 (27.0)	9.33 (4.23)	21.00 (9.53)	SLSA-2 Suspensions
F50 Cups with 50 Connection Plate						
F50-NEO/FIT/SCREEN A-3150019P		2.10 (52.8)	1.00 (26.0)	9.33 (4.23)	21.00 (9.53)	SLSA-2 Suspensions
F50-SIT/FIT/SCREEN A-3150019S		2.10 (52.8)	1.00 (26.0)	9.33 (4.23)	21.00 (9.53)	SLSA-2 Suspensions
Fittings for F50 Cups						
50/50-2 FITTING A-05AG		The 50/50-2 Fitting is utilized with a Strengthening Ring 50. It allows you to screw directly into any of the SLSA-2 Suspensions which have a male G 1/8" Thread.				SLSA-2 Suspensions
STRENGTHENING RING SILICONE 50 A-0101086		The Strengthening Ring 50 is used with the above 50/50-2 Fitting. It simply stretches on and snaps in place. Included with cups which use the one-piece fitting.				SLSA-2 Suspensions

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Vacuum Cups and Suction Cups



Generic P-Style / F Series Flat Vacuum Cups

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Static* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator/ Suspension
Fittings for F50 Cups						
50 CONNECTION PLATE A-3150145				The 50 Connection Plate uses a 50 Locking Spacer. It allows you to screw directly into any of the SLSA-2 Suspensions which have a male G 1/8" Thread.		SLSA-2 Suspensions
50 LOCKING SPACER A-3150144				The 50 Locking Spacer is used with the above 50 Connection Plate. It presses in from the bottom.		SLSA-2 Suspensions
F75 Cups						
F75-NEO A-3150131P		3.02 (76.5)	0.60 (14.0)	26.67 (12.10)	60.00 (27.22)	SLSA-2 Suspensions
F75-SIT A-3150131S		3.02 (76.5)	0.60 (14.0)	26.67 (12.10)	60.00 (27.22)	SLSA-2 Suspensions
F75 Cups with 75 Fitting						
F75-NEO/FIT/SCREEN 1/8 A-3250032P		3.02 (76.5)	0.80 (20.0)	26.67 (12.10)	60.00 (27.22)	SLSA-2 Suspensions
F75-SIT/FIT/SCREEN 1/8 A-3250032S		3.03 (77.0)	0.80 (20.0)	26.67 (12.10)	60.00 (27.22)	SLSA-2 Suspensions



Vacuum Cups and Suction Cups

Generic P-Style / F Series Flat Vacuum Cups

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Static* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator/ Suspension
F75 Cups with 75 Connection Plate						
F75-NEO/CON PLATE A-3150037P		3.02 (76.5)	0.60 (14.0)	26.67 (12.10)	60.00 (27.22)	SLSA-2 Suspensions
F75-SIT/CON PLATE A-3150037S		3.02 (76.5)	0.60 (14.0)	26.67 (12.10)	60.00 (27.22)	SLSA-2 Suspensions
Fittings for F75 Cups						
75 CONNECTION PLATE 1/8 A-3150043		The 75 Connection Plate 1/8 is to be imbedded in the 75 Series suction cup's rubber portion allowing the 75 Fitting 1/8" to be held in place.				SLSA-2 Suspensions
75 FITTING 1/8" A-3250006		The 75 Fitting 1/8" with 1/8" female center port connection with optional M5 (10/32) female port often used as a blow-off port.				SLSA-2 Suspensions
F110 Cups						
F110-NEO A-3150132P		4.30 (112.5)	0.70 (19.0)	56.00 (25.40)	126.00 (57.15)	SLSA-2 Suspensions
F110-SIT A-3150132S		4.30 (112.5)	0.70 (19.0)	56.00 (25.40)	126.00 (57.15)	SLSA-2 Suspensions
F110 Cups with 110 Fitting						
F110-NEO/FIT/SCREEN A-3150021P		4.30 (112.5)	1.00 (26.0)	56.00 (25.40)	126.00 (57.15)	SLSA-2 Suspensions
F110-SIT/FIT/SCREEN A-3150021S		4.30 (112.5)	1.00 (26.0)	56.00 (25.40)	126.00 (57.15)	SLSA-2 Suspensions

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Vacuum Cups and Suction Cups



Generic P-Style / F Series Flat Vacuum Cups

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Static* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator/ Suspension
F110 Cups with 110 Connection Plate						
F110-NEO/CON PLATE A-3150038P		4.30 (112.5)	0.70 (19.0)	56.00 (25.40)	126.00 (57.15)	SLSA-2 Suspensions
F110-SIT/CON PLATE A-3150038S		4.30 (112.5)	0.60 (14.0)	56.00 (25.40)	126.00 (57.15)	SLSA-2 Suspensions
Fittings for 110 Cups						
110 FITTING 1/2" A-3250007		The 110 Fitting 1/2" with 1/2" female center port connection with optional NPSF 1/8" female port often used as a blow-off port.				SLSA-2 Suspensions
110 CONNECTION PLATE A-3150044		The 110 Connection Plate is to be imbedded in the 110 Series suction cup's rubber portion allowing the 110 Fitting 1/2" to be held in place.				SLSA-2 Suspensions
F150 Cups						
F150-NEO A-3150133P		6.13 (155.6)	1.00 (25.0)	106.67 (48.38)	240.00 (108.86)	SLSA-2 Suspensions
F150-SIT A-3150133S		6.13 (155.6)	1.00 (25.0)	106.67 (48.38)	240.00 (108.86)	SLSA-2 Suspensions
F150 Cups with 150 Fitting						
F150-NEO/FIT/SCREEN A-3150022P		6.13 (155.6)	1.00 (25.0)	106.67 (48.38)	240.00 (108.86)	SLSA-2 Suspensions
F150-SIT/FIT/SCREEN A-3150022S		6.13 (155.6)	1.00 (25.0)	106.67 (48.38)	240.00 (108.86)	SLSA-2 Suspensions

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Vacuum Cups and Suction Cups

Generic P-Style / F Series Flat Vacuum Cups

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Static* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator/ Suspension
F150 Cups with 150 Connection Plate						
F150-NEO/CON PLATE A-3150039P		6.13 (155.6)	1.00 (25.0)	106.67 (48.38)	240.00 (108.86)	SLSA-2 Suspensions
F150-SIT/CON PLATE A-3150039S		6.13 (155.6)	1.00 (25.0)	106.67 (48.38)	240.00 (108.86)	SLSA-2 Suspensions
Fittings for F150 Cups						
150 CONNECTION PLATE A-3150045		The 150 Connection Plate is to be imbedded in the 150 Series suction cup's rubber portion allowing the 150 Fitting 1/2" to be held in place.				SLSA-2 Suspensions
150 FITTING 1/2" A-3250008		The 150 Fitting 1/2" with 1/2" female center port connection with optional NPSF 1/8" female port often used as a blow-off port.				SLSA-2 Suspensions

* All cups shown above are identical in size and shape to other manufacturers' cups. The 'static' columns represent the cup dimensions without a load as given by other manufacturers.

Note: The "G" thread is a straight pipe thread also known as BSPP, BSP, NPS or "G", commonly used in Europe, Asia and most of the world. For more information about the common pipe threads used by ANVER, please [Click Here](#).



Vacuum Cups and Suction Cups

Generic P-Style / B Series Bellows Cups



ANVER made Generic Replacements of P-Style Vacuum Cups and Suction Cups

Ideal for use where level compensation is desired on an irregularly shaped object, where a vertical offset motion is involved, for use on curved surfaces, or for separating thin work pieces. Available in sizes from 0.40 to 6.10 inches (11.0 to 156.0mm).

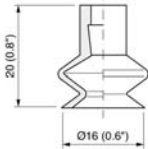
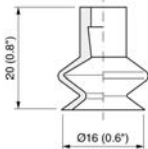
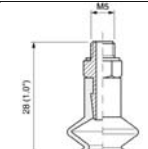
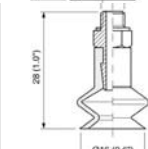
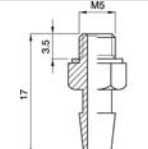
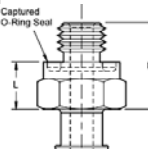
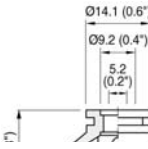
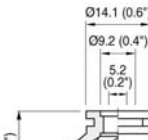
Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Compressed* Dia. in. (mm)	Static* Height in. (mm)	Compressed* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator/ Suspension
B10 Cups								
B10-NEO A-3150101		0.43 (11.0)	0.42 (10.6)	0.60 (16.0)	0.52 (13.2)	0.49 (0.22)	1.10 (0.50)	SLSA-1 Suspensions
B10-SIT A-3150101S		0.43 (11.0)	0.42 (10.6)	0.60 (16.0)	0.52 (13.2)	0.49 (0.22)	1.10 (0.50)	SLSA-1 Suspensions
B10 Cups with Fitting								
B10-NEO/FIT A-3150023		0.43 (11.0)	0.42 (10.6)	1.00 (25.0)	0.92 (23.4)	0.49 (0.22)	1.10 (0.50)	SLSA-1 Suspensions
B10-SIT/FIT A-3150023S		0.43 (11.0)	0.42 (10.6)	1.00 (25.0)	0.92 (23.4)	0.49 (0.22)	1.10 (0.50)	SLSA-1 Suspensions
Fittings for B10 Cups								
BM5 FITTING M5 MALE Replaces 10-15 FITTING A-3107030		The 10-15 Fitting M5 Male is a 5 mm Male fitting. It allows you to screw directly into any of the SLSA-1 Suspensions. Comes with washer.						SLSA-1 Suspensions
10-32 FITTING UNF MALE BM10-32		The 10-32 Fitting UNF Male is a 10-32 UNF Male fitting. It allows you to screw directly into any of the SLSA-1 Suspensions. Fits all the same cups as the 10-15 Fitting above, but in a 10-32 UNF version. Comes with captured O-ring for a vacuum tight seal. Popular alternate fitting for the North American market.						SLSA-1 Suspensions

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Vacuum Cups and Suction Cups



Generic P-Style / B Series Bellows Cups

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Compressed* Dia. in. (mm)	Static* Height in. (mm)	Compressed* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator Suspension
B15 Cups								
B15-NEO A-3150230		0.60 (16.0)	0.66 (16.8)	0.80 (20.0)	0.59 (14.8)	0.89 (0.40)	2.00 (0.91)	SLSA-1 Suspensions
B15-SIT A-3150230S		0.60 (16.0)	0.66 (16.8)	0.80 (20.0)	0.59 (14.8)	0.89 (0.40)	2.00 (0.91)	SLSA-1 Suspensions
B15 Cups with Fitting								
B15-NEO/FIT A-3250037		0.60 (16.0)	0.66 (16.8)	1.00 (28.0)	0.79 (20.1)	0.89 (0.40)	2.00 (0.91)	SLSA-1 Suspensions
B15-SIT/FIT A-3250037S		0.60 (16.0)	0.66 (16.8)	1.00 (28.0)	0.79 (20.1)	0.89 (0.40)	2.00 (0.91)	SLSA-1 Suspensions
Fittings for B15 Cups								
BM5 FITTING M5 MALE Replaces 10-15 FITTING A-3107030		The 10-15 Fitting M5 Male is a 5 mm Male fitting. It allows you to screw directly into any of the SLSA-1 Suspensions. Comes with washer.						SLSA-1 Suspensions
10-32 FITTING UNF MALE BM10-32		The 10-32 Fitting UNF Male is a 10-32 UNF Male fitting. It allows you to screw directly into any of the SLSA-1 Suspensions. Comes with captured O-ring. Popular alternate fitting for North America.						SLSA-1 Suspensions
B20 Cups								
B20-NEO A-3150103		0.90 (22.0)	0.85 (21.5)	0.80 (20.0)	0.49 (12.5)	1.38 (0.62)	3.10 (1.41)	SLSA-1 or 2 Suspensions
B20-SIT A-3150103S		0.90 (22.0)	0.85 (21.5)	0.80 (20.0)	0.49 (12.5)	1.38 (0.62)	3.10 (1.41)	SLSA-1 or 2 Suspensions

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Vacuum Cups and Suction Cups

Generic P-Style / B Series Bellows Cups

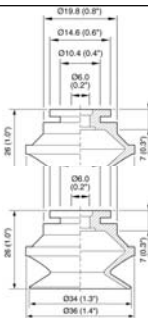
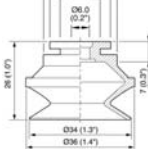
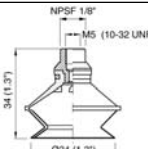
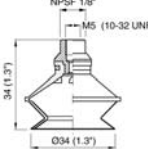
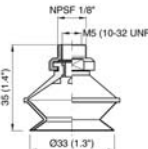
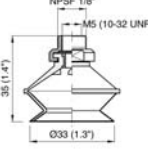
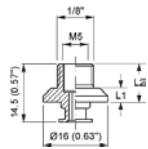
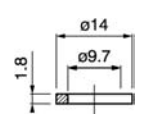
Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Compressed* Dia. in. (mm)	Static* Height in. (mm)	Compressed* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator Suspension
B20 Cups with 20-30 Fitting								
B20-NEO/1PC FIT A-3150025A		0.90 (22.0)	0.85 (21.5)	1.10 (29.0)	0.79 (20.1)	1.38 (0.62)	3.10 (1.41)	SLSA-1 or 2 Suspensions
B20-SIT/1PC FIT A-3150025SA		0.90 (22.0)	0.85 (21.5)	1.10 (29.0)	0.79 (20.1)	1.38 (0.62)	3.10 (1.41)	SLSA-1 or 2 Suspensions
B20 Cups with 20-30 Connection Plate								
B20-NEO/FIT /SCREEN A-3150025		0.90 (22.0)	0.85 (21.5)	1.00 (26.0)	0.69 (17.5)	1.38 (0.62)	3.10 (1.41)	SLSA-1 or 2 Suspensions
B20-SIT/FIT /SCREEN A-3150025S		0.90 (22.0)	0.85 (21.5)	1.00 (26.0)	0.69 (17.5)	1.38 (0.62)	3.10 (1.41)	SLSA-1 or 2 Suspensions
Fittings for B20 Cups								
20-30 FITTING A-3150196		For SLSA-1 Suspensions, use the HSHN5 Double Male 5 mm adapter. For SLSA-2 Suspensions, use the HS18-18F-G Double Female G 1/8" adapter.						SLSA-1 or 2 Suspensions
STRENGTHENING RING SILICONE 20/30 A-0101084		The Strengthening Ring 20/30 is used with the above 20-30 Fitting. It simply stretches on and snaps in place. Included with cups which use the one-piece fitting.						SLSA-1 or 2 Suspensions
20-30 CONNECTION PLATE A-3150141		For SLSA-1 Suspensions, use the HSHN5 Double Male 5 mm adapter. For SLSA-2 Suspensions, use the HS18-18F-G Double Female G 1/8" adapter.						SLSA-1 or 2 Suspensions
20-30 LOCKING SPACER A-3150140		The 20-30 Locking Spacer is used with the above 20-30 Connection Plate. It presses in from the bottom.						SLSA-1 or 2 Suspensions

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Vacuum Cups and Suction Cups

Generic P-Style / B Series Bellows Cups



Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Compressed* Dia. in. (mm)	Static* Height in. (mm)	Compressed* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator Suspension
B30 Cups								
B30-NEO A-3150104		1.30 (34.0)	1.34 (34.0)	1.00 (26.0)	0.75 (19.0)	2.09 (0.95)	4.70 (2.13)	SLSA-1 or 2 Suspensions
B30-SIT A-3150104S		1.30 (34.0)	1.34 (34.0)	1.00 (26.0)	0.75 (19.0)	2.09 (0.95)	4.70 (2.13)	SLSA-1 or 2 Suspensions
B30 Cups with 20-30 Fitting								
B30-NEO/1PC FIT A-3150026A		1.30 (34.0)	1.34 (34.0)	1.30 (34.0)	1.05 (26.7)	2.09 (0.95)	4.70 (2.13)	SLSA-1 or 2 Suspensions
B30-SIT/1PC FIT A-3150026SA		1.30 (34.0)	1.34 (34.0)	1.30 (34.0)	1.05 (26.7)	2.09 (0.95)	4.70 (2.13)	SLSA-1 or 2 Suspensions
B30 Cups with 20-30 Connection Plate								
B30-NEO/FIT /SCREEN A-3150026		1.30 (34.0)	1.30 (34.0)	1.30 (34.0)	1.05 (26.7)	2.09 (0.95)	4.70 (2.13)	SLSA-1 or 2 Suspensions
B30-SIT/FIT /SCREEN A-3150026S		1.30 (34.0)	1.30 (34.0)	1.30 (34.0)	1.05 (26.7)	2.09 (0.95)	4.70 (2.13)	SLSA-1 or 2 Suspensions
Fittings for B30 Cups								
20-30 FITTING A-3150196		For SLSA-1 Suspensions, use the HSHN5 Double Male 5 mm adapter. For SLSA-2 Suspensions, use the HS18-18F-G Double Female G 1/8" adapter.						SLSA-1 or 2 Suspensions
STRENGTHENING RING SILICONE 20/30 A-0101084		The Strengthening Ring 20/30 is used with the above 20-30 Fitting. It simply stretches on and snaps in place. Included with cups which use the one-piece fitting.						SLSA-1 or 2 Suspensions



Vacuum Cups and Suction Cups

Generic P-Style / B Series Bellows Cups

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Compressed* Dia. in. (mm)	Static* Height in. (mm)	Compressed* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator Suspension	
20-30 CONNECTION PLATE A-3150141								For SLSA-1 Suspensions, use the HSHN5 Double Male 5 mm adapter. For SLSA-2 Suspensions, use the HS18-18F-G Double Female G 1/8" adapter.	SLSA-1 or 2 Suspensions
20-30 LOCKING SPACER A-3150140								The 20-30 Locking Spacer is used with the above 20-30 Connection Plate. It presses in from the bottom.	SLSA-1 or 2 Suspensions
B40 Cups									
B40-NEO A-3150105		1.70 (43.0)	1.70 (43.0)	1.10 (28.0)	0.70 (17.7)	2.67 (1.21)	6.00 (2.72)	SLSA-2 Suspensions	
B40-SIT A-3150105S		1.70 (43.0)	1.70 (43.0)	1.10 (28.0)	0.70 (17.7)	2.67 (1.21)	6.00 (2.72)	SLSA-2 Suspensions	
B40 Cups with 40/30-2/BL30 Fitting									
B40-NEO/1PC FIT A-3150027A		1.70 (43.0)	1.70 (43.0)	1.40 (36.0)	1.00 (25.4)	2.67 (1.21)	6.00 (2.72)	SLSA-2 Suspensions	
B40-SIT/1PC FIT A-3150027SA		1.70 (43.0)	1.70 (43.0)	1.40 (36.0)	1.00 (25.4)	2.67 (1.21)	6.00 (2.72)	SLSA-2 Suspensions	
B40 Cups with 40 Connection Plate									
B40-NEO/FIT /SCREEN A-3150027		1.70 (43.0)	1.70 (43.0)	1.40 (35.0)	1.00 (25.4)	2.67 (1.21)	6.00 (2.72)	SLSA-2 Suspensions	
B40-SIT/FIT/SCREEN A-3150027S		1.70 (43.0)	1.70 (43.0)	1.40 (35.0)	1.00 (25.4)	2.67 (1.21)	6.00 (2.72)	SLSA-2 Suspensions	

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Vacuum Cups and Suction Cups

Generic P-Style / B Series Bellows Cups



Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Compressed* Dia. in. (mm)	Static* Height in. (mm)	Compressed* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator Suspension
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Fittings for B40 Cups

40/30-2/BL30 FITTING A-3250001		The 40/30-2/BL30 FITTING uses a Strengthening Ring 40. It allows you to screw directly into any of the SLSA-2 Suspensions which have a male G 1/8" Thread.					SLSA-2 Suspensions	
STRENGTHENING RING SILICONE 40 A-0101085		The Strengthening Ring 40 is used with the above 40/30-2/BL30 Fitting. It simply stretches on and snaps in place. Included with cups which use the one-piece fitting.					SLSA-2 Suspensions	
40 CONNECTION PLATE A-3150143		The 40 Connection Plate uses a 40 Locking Spacer. It allows you to screw directly into any of the SLSA-2 Suspensions which have a male G 1/8" Thread.					SLSA-2 Suspensions	
40 LOCKING SPACER A-3150142		The 40 Locking Spacer is used with the above 40 Connection Plate. It presses in from the bottom.					SLSA-2 Suspensions	

B50 Cups

B50-NEO A-3150233P		2.00 (52.0)	2.12 (53.8)	1.40 (35.0)	0.93 (23.6)	4.89 (2.22)	11.00 (4.99)	SLSA-2 Suspensions
B50-SIT A-3150233S		2.00 (52.0)	2.12 (53.8)	1.40 (35.0)	0.93 (23.6)	4.89 (2.22)	11.00 (4.99)	SLSA-2 Suspensions

B50 Cups with 50 Fitting

B50-NEO/1PC FIT A-3250035PA		2.00 (52.0)	2.12 (53.8)	1.70 (44.0)	1.23 (31.2)	4.89 (2.22)	11.00 (4.99)	SLSA-2 Suspensions
B50-SIT/1PC FIT A-3250035SA		2.00 (52.0)	2.12 (53.8)	1.70 (44.0)	1.23 (31.2)	4.89 (2.22)	11.00 (4.99)	SLSA-2 Suspensions

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Vacuum Cups and Suction Cups

Generic P-Style / B Series Bellows Cups

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Compressed* Dia. in. (mm)	Static* Height in. (mm)	Compressed* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator Suspension
B50 Cups with 50 Connection Plate								
B50-NEO/FIT /SCREEN A-3250035P		2.00 (52.0)	2.12 (53.8)	1.70 (43.0)	1.23 (31.2)	4.89 (2.22)	11.00 (4.99)	SLSA-2 Suspensions
B50-SIT/FIT /SCREEN A-3250035S		2.00 (52.0)	2.12 (53.8)	1.70 (43.0)	1.23 (31.2)	4.89 (2.22)	11.00 (4.99)	SLSA-2 Suspensions
Fittings for B50 Cups								
50/50-2 FITTING A-05AG		The 50/50-2 Fitting is utilized with a Strengthening Ring 50. It allows you to screw directly into any of the SLSA-2 Suspensions which have a male G 1/8" Thread.						SLSA-2 Suspensions
STRENGTHENING RING SILICONE 50 A-0101086		The Strengthening Ring 50 is used with the above 50/50-2 Fitting. It simply stretches on and snaps in place. Included with cups which use the one-piece fitting.						SLSA-2 Suspensions
50 CONNECTION PLATE A-3150145		The 50 Connection Plate uses a 50 Locking Spacer. It allows you to screw directly into any of the SLSA-2 Suspensions which have a male G 1/8" Thread.						SLSA-2 Suspensions
50 LOCKING SPACER A-3150144		The 50 Locking Spacer is used with the above 50 Connection Plate. It presses in from the bottom						SLSA-2 Suspensions
B75 Cups								
B75-NEO A-3250096P		3.10 (78.0)	3.21 (81.5)	1.50 (37.0)	1.19 (30.2)	22.22 (10.08)	50.00 (22.68)	SLSA-2 Suspensions
B75-SIT A-3250096S		3.10 (78.0)	3.21 (81.5)	1.50 (37.0)	1.19 (30.2)	22.22 (10.08)	50.00 (22.68)	SLSA-2 Suspensions

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Vacuum Cups and Suction Cups

Generic P-Style / B Series Bellows Cups



Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Compressed* Dia. in. (mm)	Static* Height in. (mm)	Compressed* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator Suspension
B75 Cups with 75 Fitting								
B75-NEO/FIT/SCREEN A-3250023P		3.10 (78.0)	3.21 (81.5)	2.00 (50.0)	1.48 (37.6)	22.22 (10.08)	50.00 (22.68)	SLSA-2 Suspensions
B75-SIT/FIT/SCREEN A-3250023S		3.10 (78.0)	3.21 (81.5)	2.00 (50.0)	1.48 (37.6)	22.22 (10.08)	50.00 (22.68)	SLSA-2 Suspensions
B75 Cups with 75 Connection Plate								
B75-NEO/CON PLATE A-3150096P		3.10 (78.0)	3.21 (81.5)	2.00 (50.0)	1.48 (37.6)	22.22 (10.08)	50.00 (22.68)	SLSA-2 Suspensions
B75-SIT/CON PLATE A-3150096S		3.10 (78.0)	3.21 (81.5)	2.00 (50.0)	1.48 (37.6)	22.22 (10.08)	50.00 (22.68)	SLSA-2 Suspensions
Fittings for B75 Cups								
75 CONNECTION PLATE 1/8 A-3150043		The 75 Connection Plate 1/8 is to be imbedded in the 75 Series suction cup's rubber portion allowing the 75 Fitting 1/8" to be held in place.						SLSA-2 Suspensions
75 FITTING 1/8" A-3250006		The 75 Fitting 1/8" with 1/8" female center port connection with optional M5 (10/32) female port often used as a blow-off port.						SLSA-2 Suspensions
B110 Cups								
B110-NEO A-3150108P		4.50 (115.0)	4.76 (120.9)	2.10 (54.0)	0.84 (21.2)	45.78 (20.76)	103.00 (46.72)	SLSA-3 Suspensions
B110-SIT A-3150108S		4.50 (115.0)	4.76 (120.9)	2.10 (54.0)	0.84 (21.2)	45.78 (20.76)	103.00 (46.72)	SLSA-3 Suspensions

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Vacuum Cups and Suction Cups

Generic P-Style / B Series Bellows Cups

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Compressed* Dia. in. (mm)	Static* Height in. (mm)	Compressed* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator Suspension
B110 Cups with 110 Fitting								
B110-NEO/FIT A-3150030P		4.50 (115.0)	4.76 (120.9)	2.50 (63.0)	1.23 (31.1)	45.78 (20.76)	103.00 (46.72)	SLSA-3 Suspensions
B110-SIT/FIT A-3150030S		4.50 (115.0)	4.76 (120.9)	2.50 (63.0)	1.23 (31.2)	45.78 (20.76)	103.00 (46.72)	SLSA-3 Suspensions
B110 Cups with 110 Connection Plate								
B110-NEO/CON PLATE A-3150035P		4.50 (115.0)	4.76 (120.9)	2.10 (54.0)	0.84 (21.2)	45.78 (20.76)	103.00 (46.72)	SLSA-3 Suspensions
B110-SIT/CON PLATE A-3150035S		4.50 (115.0)	4.76 (120.9)	2.10 (54.0)	0.84 (21.2)	45.78 (20.76)	103.00 (46.72)	SLSA-3 Suspensions
Fittings for B110 Cups								
110 FITTING 1/2" A-3250007		The 110 Fitting 1/2" with 1/2" female center port connection with optional NPSF 1/8" female port often used as a blow-off port.						SLSA-3 Suspensions
110 CONNECTION PLATE A-3150044		The 110 Connection Plate is to be imbedded in the 110 Series suction cup's rubber portion allowing the 110 Fitting 1/2" to be held in place.						SLSA-3 Suspensions
B150 Cups								
B150-NEO A-3150109P		6.10 (156.0)	6.50 (165.1)	2.80 (71.0)	1.05 (26.5)	88.00 (39.92)	198.00 (89.81)	SLSA-3 Suspensions
B150-SIT A-3150109S		6.10 (156.0)	6.50 (165.1)	2.10 (54.0)	1.05 (26.5)	88.00 (39.92)	198.00 (89.81)	SLSA-3 Suspensions

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Vacuum Cups and Suction Cups



Generic P-Style / B Series Bellows Cups

Vacuum Cup Description and Part Number	Dimensional Dwg.	Static* Dia. in. (mm)	Compressed* Dia. in. (mm)	Static* Height in. (mm)	Compressed* Height in. (mm)	Load Capacity at 24 in. Hg (609.6mm Hg) 2:1 safety factor lb (kg)	Pull-Off Capacity at 27 in. Hg (685.6mm Hg) 1:1 safety factor lb (kg)	Associated Level Compensator Suspension
B150 Cups with 150 Fitting								
B150-NEO/FIT A-3150031P		6.10 (156.0)	6.50 (165.1)	3.10 (78.0)	1.44 (36.6)	88.00 (39.92)	198.00 (89.81)	SLSA-3 Suspensions
B150-SIT/FIT A-3150031S		6.10 (156.0)	6.50 (165.1)	3.10 (78.0)	1.44 (36.6)	88.00 (39.92)	198.00 (89.81)	SLSA-3 Suspensions
B150 Cups with 150 Connection Plate								
B150-NEO/CON PLATE A-3150036P		6.10 (156.0)	6.50 (165.1)	2.80 (71.0)	1.05 (26.5)	88.00 (39.92)	198.00 (89.81)	SLSA-3 Suspensions
B150-SIT/CON PLATE A-3150036S		6.10 (156.0)	6.50 (165.1)	2.80 (71.0)	1.05 (26.5)	88.00 (39.92)	198.00 (89.81)	SLSA-3 Suspensions
Fittings for B150 Cups								
150 CONNECTION PLATE A-3150045		The 150 Connection Plate is to be imbedded in the 150 Series suction cup's rubber portion allowing the 150 Fitting 1/2" to be held in place.						SLSA-3 Suspensions
150 FITTING 1/2" A-3250008		The 150 Fitting 1/2" with 1/2" female center port connection with optional NPSF 1/8" female port often used as a blow-off port.						SLSA-3 Suspensions

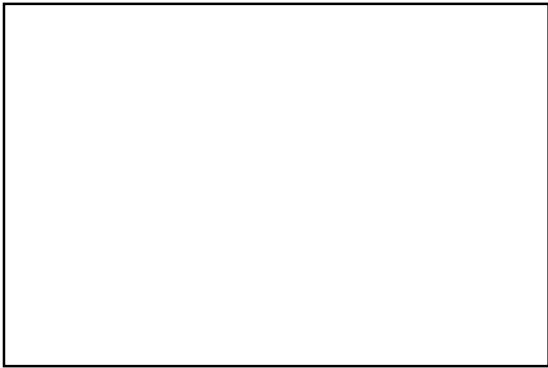
* All cups shown above are identical in size and shape to other manufacturers' cups. The 'static' columns represent the cup dimensions without a load as given by other manufacturers. The 'compressed' column specifications are important in making sure that everything fits, and represent the actual size of the cup after full compression (being flattened out) on a level load. (This difference is negligible in the F series.) The bigger the cup the greater the enlargement of the diameter. A lower vacuum level will lessen this compression (or flattening out); however, make sure to leave enough room for the static height of the cup in your design.

Note: The "G" thread is a straight pipe thread also known as BSPP, BSP, NPS or "G", commonly used in Europe, Asia and most of the world.



Vacuum Cups and Suction Cups

Generic P-Style / Vacuum and Suction Cup Fittings



ANVER Generic Replacements of P-Style Vacuum Cups and Suction Cups Fittings

Vacuum Cup Description and Part Number	Dimensional Drawing	Connection Thread Size	Fitting Material	Notes
4-8 BARBED 10/32 MALE A-3107031-10/32		10-32 UNF male	Electro-Less Nickel-Plated Brass	The 4-8 Barbed Fitting Male allows you to screw directly into any of the SLSA-1 Suspensions which are 5 mm female. Featuring an improved barb design, it fits all the same cups as the 4-8 Fitting, but in a 10-32 UNF version. Comes with a captured O-ring for a vacuum tight seal. A popular fitting for the North American market.
4-8 FITTING M5 MALE A-3107031 31.07.031		5 mm male	Electro-Less Nickel-Plated Brass	The 4-8 Fitting M5 Male is a 5 mm male fitting. It allows you to screw directly into any of the SLSA-1 Suspensions. Comes with washer.
10-15 FITTING 10/32 MALE BM10-32		10-32 UNF male	Electro-Less Nickel-Plated Brass	The 10-32 Fitting UNF Male allows you to screw directly into any of the SLSA-1 Suspensions which are 5 mm female. Fits all the same cups as the 10-15 Fitting, but in a 10-32 UNF version. Comes with a captured O-ring for a vacuum tight seal. A popular fitting for the North American market.
BM5 FITTING M5 MALE Replaces 10-15 FITTING A-3107030 31.07.03		5 mm male	Electro-Less Nickel-Plated Brass	The BM5 FITTING M5 MALE is an improved 5 mm male fitting with captured O-ring which replaces the older 10-15 FITTING M5 MALE. It allows you to screw directly into any of the SLSA-1 Suspensions.
20-30 FITTING A-3150196 31.50.196		G 1/8" male	Black Delrin	For SLSA-1 Suspensions, use the HSHN5 double male 5 mm adapter. For SLSA-2 Suspensions, use the HS18G-18FG double female G 1/8" adapter.
STRENGTHENING RING SILICONE 20/30 A-0101084 01.01.084		N/A	Silicone	The Strengthening Ring 20/30 is used with the above 20-30 Fitting. It simply stretches on and snaps in place. Included with cups which use the one-piece fitting.
20-30 CONNECTION PLATE A-3150141 31.50.141		G 1/8" male	Black Anodized Aluminum	For SLSA-1 Suspensions, use the HSHN5 double male 5 mm adapter. For SLSA-2 Suspensions, use the HS18G-18FG double female G 1/8" adapter.

Vacuum Cups and Suction Cups

Generic P-Style / Vacuum and Suction Cup Fittings



