



Section

Suspensions









Suspension Assemblies

Suspension Assemblies - Cups and Pads



Anver Cup and Slide Assemblies:

ANVER builds complete cup and slide assemblies, fully engineered for each of its cups, in a variety of sizes. The highest quality components, such as nickel or chrome plated fittings, rods and springs are used.

A typical suspension assembly slides freely along a beam, and is secured with a locking hand knob. Springs level the load in lifting and allow for variations in height when attaching to the load.

Features:

- Rugged aluminum or steel slides with locking knobs.
- Fit standard square tubing. (ANVER offers 5 sizes).
- Hardened pivot ball and ball seats for long wear in production environments.
 (Ball Swivel Suspension Only.)
- Top springs carry load evenly when used in multipad arrangements.
- Bottom spring to seat cup and soften lowering of pads onto load.
- Quality springs and hardware used throughout.









ANVER Builds Standard Suspension Assemblies for Almost All of its Cups and Pads

All the suspensions and spring suspensions listed in this catalogue have been completely engineered and are ready for your use. You save a great deal of engineering time and money by buying complete assemblies. All top and bottom springs, rods, and hose connections have been designed for use with a specific cup capacity, and are made from high quality plated materials. Contact our sales department for assistance in selecting the suspension system best suited to *your* application.

Vacuum Pad Mounting Accessories





Beams and Crossarms

Load beams and crossarms are also available in many sizes and styles to best suit your application. Crossarms are made from heavy duty carbon steel, then nickel plated for long life. Mounting holes allow attachment to either another main beam or directly to an existing system.

Adjustable Pad Slides

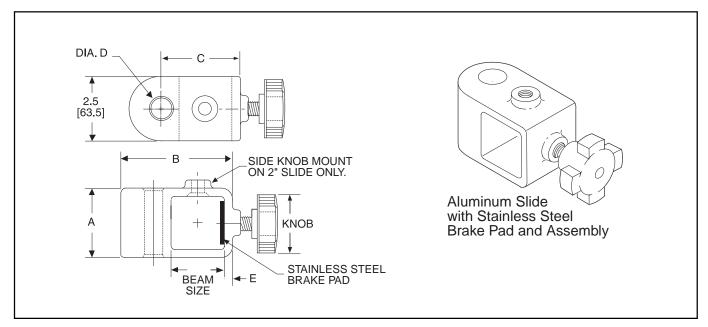
Adjustable pad slides are available in a variety of sizes to fit most crossarms. These sturdy aluminum slides feature a heavy plastic locking knob and dual clamping areas to keep pad attachments firmly locked in place. Stainless Steel brake pads are included to minimize marring of the crossarms while still allowing for easy adjustment.

Replacement Parts

Replacement parts for all vacuum cup and slide assemblies are available from stock. ANVER stocks a large number of suspension studs, springs, ball and stud assemblies, and other replacement components for our suspension assemblies. However, it is usually more economical and convenient to replace the entire assembly. Please consult factory for best option.

Available from stock:

- · Ball Swivel Assemblies
- Replacement Springs
- Replacement Cups and Sealing Rings
- Hose and Hose Barbs
- Suspension Rods



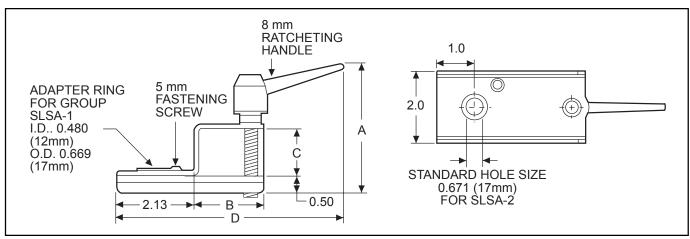
Adjustable Brackets for Various Suspension Rods





Adjustable brackets for various suspension rods are available in a variety of sizes to fit most crossarms.

Fits Steel Tubing Sizes 1 1/4", 1 1/2", 1 3/4" and 2".



| ANVER Item No. | Description | A in. (mm) | B in. (mm) | C in. (mm) | D in. (mm) | Fits Tubing Size in. (mm) |
|-------------------|-------------------------|------------------|------------------|------------------|------------------|---------------------------------|
| SBA-125 | Slide Bracket Assembly, | 3.61 | 1.92 | 1.27 | 6.23 | 1.25 x 1.25 |
| | for 1-1/4" Beams | (91.7) | (48.8) | (32.3) | (158.2) | (31.75 x 31.75) |
| SBA-150 | Slide Bracket Assembly, | 3.86 | 2.17 | 1.52 | 6.43 | 1.50 x 1.50 |
| | for 1-1/2" Beams | (98.0) | (55.1) | (38.6) | (163.3) | (38.1 x 38.1) |
| SBA-175 | Slide Bracket Assembly, | 4.11 | 2.42 | 1.77 | 6.67 | 1.75 x 1.75 |
| | for 1-3/4" Beams | (104.4) | (61.5) | (45.0) | (169.4) | (44.5 x 44.5) |
| SBA-200 | Slide Bracket Assembly, | 4.36 | 2.67 | 2.02 | 6.92 | 2.00 x 2.00 |
| | for 2" Beams | (110.7) | (67.8) | (51.3) | (175.8) | (50.8 x 50.8) |



Adapter No.: 212-00-679 (Guide, Spacer for SLSA-1 Series)

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





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:

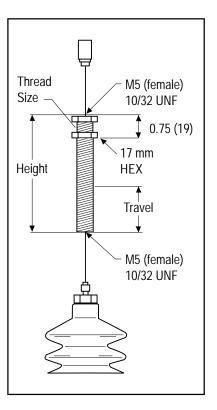
- · Suspensions reduce machine indexing when picking up material from a
- They compensate for variations in object height and offer a soft touch attach.
- · Shock and noise to an object and machine is minimized.
- Cup pressure is consistent on each pick up which increases the cups life.
- · Suspensions 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

| Components | Rotating | Non-Rotating | | |
|------------------|---------------------|---------------------|--|--|
| Suspension Tube: | Nickel-Plated Tube | Stainless Steel | | |
| Springs: | Stainless Steel | Stainless Steel | | |
| Bulkhead Thread: | Nickel-Plated Brass | Nickel-Plated Brass | | |
| 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-105NR Non-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) |



SLSA-2 Series (1/8" NPT 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.

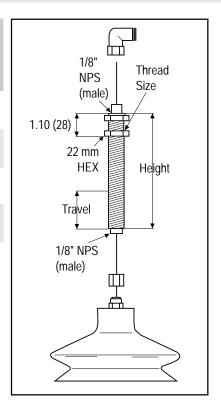
The SLSA-2 Series connects to the vacuum system via 1/8" NPT Male thread. For M5 Threads, see our SLSA-1 Series.

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 Brass | 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) |



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:

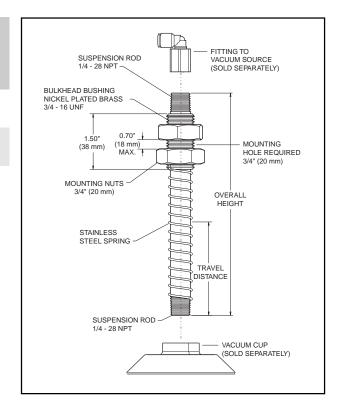
Suspension Rod: Stainless Steel

Springs: Stainless Steel

Bulkhead Thread: Nickel-Plated Brass

Mounting Nuts: Plated Steel

| ANVER Item No. | Travel in. (mm) | Height in. (mm) |
|-------------------|-----------------------|-----------------------|
| SLSA-330 | 1.94 (49) | 4.00 (102) |
| SLSA-370 | 3.10 (79) | 6.00 (152) |
| SLSA-399 | 4.75 (120) | 8.00 (203) |



Rigid Cup and Slide Mount Assemblies

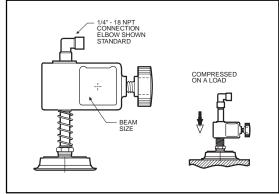




Also available for our small center port vacuum cups are spring loaded suspensions with adjustable pad slides. These assemblies are designed to be mounted on a load beam where vacuum cups need to be adjusted to varying load sizes. Three possible slides are available to fit common load beam and crossarm sizes. For use with VC Series and VP Series Vacuum Cups.

Features:

- · Adjustable Slide Mounts
- For use with Small, Center Port Vacuum Cups (VC, VP Series)
- Designed for Rigid Cups

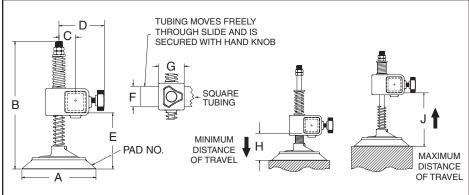


Rigid Cup and Slides with Side Vacuum Port





Rigid Suspension Assemblies are also available for our medium sized vacuum cups. Double spring suspensions and side vacuum ports make these assemblies perfect for virtually any material handling application. Adjustable slides are available in a variety of sizes making it easy to adapt to any system. Designed for Medium VC Series Vacuum Cups.



Features:

- Adjustable Slide Mounts
- For use with Medium, Side Port Vacuum Cups (VC Series)
- Designed for Rigid Cups

| Susp. Model Number | A Cup Diameter in. (mm) | B in. (mm) | C in. (mm) | D in. (mm) | E in. (mm) | F Beam Size in. (mm) | G in. (mm) | H in. (mm) | J in. (mm) | Weight lb. (kg) | Capacity Ib. (kg)* | Vacuum Pad Used |
|--------------------------|-------------------------------------|------------------|------------------|------------------|------------------|----------------------------------|------------------|------------------|------------------|-----------------------|--------------------------|-----------------------|
| PS57R- | 5.88 | 11.13 | 1.25 | 3.69 | 4.88 | 1.25 | 2.5 | 3.18 | 6.28 | 3.0 | 75 | VC57 |
| NBR125 | (149) | (283) | (32) | (94) | (124) | (32) | (64) | (81) | (160) | (1.4) | (34) | |
| PS57R- | 5.88 | 11.13 | 1.50 | 4.19 | 4.88 | 1.75 | 2.5 | 3.18 | 6.28 | 3.1 | 75 | VC57 |
| NBR175 | (149) | (283) | (38) | (106) | (124) | (44) | (64) | (81) | (160) | (1.4) | (34) | |
| PS57R- | 5.88 | 11.13 | 1.63 | 4.44 | 4.88 | 2.00 | 2.5 | 3.18 | 6.28 | 3.2 | 75 | VC57 |
| NBR200 | (149) | (283) | (41) | (113) | (124) | (51) | (64) | (81) | (160) | (1.5) | (34) | |
| PS65R- | 6.63 | 11.19 | 1.50 | 4.19 | 4.94 | 1.75 | 2.5 | 3.24 | 6.43 | 3.3 | 100 | VC65 |
| NBR175 | (168) | (284) | (38) | (106) | (125) | (44) | (64) | (82) | (163) | (1.5) | (45) | |
| PS65R- | 6.63 | 11.19 | 1.63 | 4.44 | 4.94 | 2.00 | 2.5 | 3.24 | 6.43 | 3.4 | 100 | VC65 |
| NBR200 | (168) | (284) | (41) | (113) | (125) | (51) | (64) | (82) | (163) | (1.5) | (45) | |
| PS75R- | 7.50 | 12.50 | 1.50 | 4.19 | 5.64 | 1.75 | 2.5 | 3.13 | 7.00 | 4.6 | 150 | VC75 |
| NBR175 | (191) | (318) | (38) | (106) | (143) | (44) | (64) | (80) | (178) | (2.1) | (68) | |
| PS75R- | 7.50 | 12.50 | 1.63 | 4.44 | 5.64 | 2.00 | 2.5 | 3.13 | 7.00 | 4.4 | 150 | VC75 |
| NBR200 | (191) | (318) | (41) | (113) | (143) | (51) | (64) | (80) | (178) | (2.0) | (68) | |
| PS95R- | 10.00 | 14.83 | 1.50 | 4.19 | 6.70 | 1.75 | 2.5 | 4.00 | 8.61 | 7.3 | 250 | VC95R-2 |
| NBR175 | (254) | (377) | (38) | (106) | (170) | (44) | (64) | (102) | (219) | (3.3) | (113) | |
| PS95R- | 10.00 | 14.83 | 1.63 | 4.44 | 6.70 | 2.00 | 2.5 | 4.00 | 8.61 | 7.2 | 250 | VC95R-2 |
| NBR200 | (254) | (377) | (41) | (113) | (170) | (51) | (64) | (102) | (219) | (3.3) | (113) | |
| PS119R- | 12.25 | 14.75 | 1.63 | 4.44 | 6.64 | 2.00 | 2.5 | 4.18 | 7.82 | 9.1 | 500 | VC119R-2 |
| NBR200 | (311) | (3.75) | (41) | (113) | (169) | (51) | (64) | (106) | (199) | (4.1) | (227) | |

^{*} The cup capacities shown above are based on 24"Hg at sea level with a safety factor of two (2) in the horizontal (flat), and four (4) in the vertical (upright). Vertical Load Capacity is half of the listed Horizontal Load Capacities above.

Rated Load Capacities are estimated; actual capacity will vary based on the load surface and the level of vacuum.

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Ball Swivel Mounts with Side Vacuum Port





ANVER Ball Swivel Spring Suspension assemblies are the most versatile suspensions available. The ball and socket design provides up to 15° pivot in any direction. This unique feature enables the cups to compensate for wavy or slightly inclined loads. Designed for use with large size vacuum cups in the VC Series and VP Series.

BEAM SIZE B MAXIMUM AND MINIMUM DISTANCE OF TRAVEL (FLARED) MAXIMUM AND MINIMUM DISTANCE OF TRAVEL

Features:

- · Adjustable Slide Mounts
- For use with Medium, Side Port Vacuum Cups (VC, VP Series)
- Designed for Ball Swivel Cups

| Susp. | Cup Dia. | A | B | C | D | E | Beam Size | Weight | Capacity* | Vacuum |
|----------|----------|-------|-------|------|-------|-------|-----------|--------|-----------|----------|
| Assembly | In. | in. | in. | in. | in. | in. | in. | lb. | lb. | Pad |
| Number | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (kg) | (kg) | Assembly |
| PS60S- | 6.13 | 10.84 | 5.06 | 1.59 | 2.79 | 6.07 | 1.75 | 3.75 | 110 | VP60-4 |
| NBR175 | (156) | (275) | (129) | (40) | (71) | (154) | (44) | (1.7) | (50) | |
| PS60S- | 6.13 | 10.84 | 5.12 | 1.71 | 2.85 | 5.81 | 2.00 | 3.75 | 110 | VP60-4 |
| NBR200 | (156) | (275) | (130) | (43) | (72) | (148) | (51) | (1.7) | (50) | |
| PS70S- | 7.13 | 10.83 | 5.05 | 1.59 | 2.78 | 6.17 | 1.75 | 4.00 | 160 | VP70-4 |
| NBR175 | (181) | (275) | (128) | (40) | (71) | (157) | (44) | (1.8) | (73) | |
| PS70S- | 7.13 | 10.83 | 5.11 | 1.71 | 2.84 | 5.92 | 2.00 | 4.00 | 160 | VP70-4 |
| NBR200 | (181) | (275) | (130) | (43) | (72) | (150) | (51) | (1.8) | (73) | |
| PS80S- | 8.25 | 10.84 | 5.06 | 1.59 | 3.16 | 5.88 | 1.75 | 4.25 | 200 | VP80-4 |
| NBR175 | (210) | (275) | (129) | (40) | (80) | (149) | (44) | (1.9) | (91) | |
| PS80S- | 8.25 | 10.84 | 5.12 | 1.71 | 3.22 | 5.62 | 2.00 | 4.25 | 200 | VP80-4 |
| NBR200 | (210) | (275) | (130) | (43) | (82) | (143) | (51) | (1.9) | (91) | |
| PS90S- | 9.25 | 13.87 | 6.50 | 1.59 | 4.13 | 10.40 | 1.75 | 7.25 | 270 | VP90-4 |
| NBR175 | (235) | (352) | (165) | (40) | (105) | (264) | (44) | (3.3) | (123) | |
| PS90S- | 9.25 | 13.87 | 6.56 | 1.71 | 4.19 | 10.14 | 2.00 | 7.25 | 270 | VP90-4 |
| NBR200 | (235) | (352) | (167) | (43) | (106) | (258) | (51) | (3.3) | (123) | |
| PS95S- | 10.00 | 14.82 | 6.80 | 1.59 | 4.36 | 8.77 | 1.75 | 7.50 | 250 | VC95R-4 |
| NBR175 | (254) | (376) | (173) | (40) | (111) | (223) | (44) | (3.4) | (113) | |
| PS95S- | 10.00 | 14.82 | 6.86 | 1.71 | 4.42 | 8.52 | 2.00 | 7.50 | 250 | VC95R-4 |
| NBR200 | (254) | (376) | (174) | (43) | (112) | (216) | (51) | (3.4) | (113) | |
| PS119S- | 12.25 | 14.92 | 6.97 | 1.71 | 4.66 | 7.95 | 2.00 | 10.00 | 500 | VC119-4 |
| NBR200 | (311) | (379) | (177) | (43) | (118) | (202) | (51) | (4.6) | (228) | |
| PS128S- | 13.25 | 14.09 | 6.90 | 1.71 | 4.63 | 7.89 | 2.00 | 15.3 | 600 | VP128S |
| NBR200 | (337) | (358) | (175) | (43) | (118) | (200) | (51) | (5.9) | (272) | |

^{*} The cup capacities shown above are based on 24"Hg at sea level with a safety factor of two (2) in the horizontal (flat), and four (4) in the vertical (upright). Vertical Load Capacity is half of the listed Horizontal Load Capacities above.

Rated Load Capacities are estimated; actual capacity will vary based on the load surface and the level of vacuum.

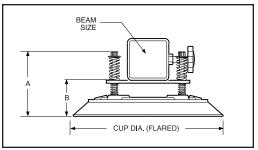
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Quad-Mount Spring-Loaded Series





ANVER's larger vacuum cups and vacuum pads can be mounted using a quad spring suspension assembly. This mounting configuration ensures consistent attachment by allowing for adjustment to uneven or slightly tilted surfaces. A wide variety of slides are available for mounting to most standard load beam and crossarm sizes. For use with Large VC Series Cups and Large VP Series Pads.



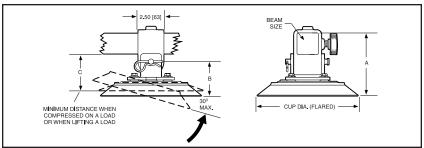
| Suspension Assembly Number | Slide Size in. (mm) | Cup Dia. in. (mm) | A in. (mm) | B in. (mm) | Rated Load* Ib (kg) | Vacuum Cup Number |
|----------------------------------|----------------------------|-------------------------|------------------|------------------|---------------------------|----------------------|
| PS95Q-NBR175 | 1.75 x 1.75 (44 x 44) | 10.00 (254) | 5.31 (135) | 3.50 (89) | 250 (113.6) | VC95Q |
| PS125Q-NBR200 | 2.00 x 2.00 (51 x 51) | 13.00 (330) | 5.50 (140) | 3.28 (83) | 500 (227.3) | VC125Q-2 |
| PS125Q-NBR300 | 3.00 x 3.00 (76 x 76) | 13.00 (330) | 5.50 (140) | 3.28 (83) | 500 (227.3) | VC125Q-2 |
| PS125Q-NBR360 | 3.00 x 6.00 (76 x 152) | 13.25 (337) | 6.30 (160) | 4.44 (113) | 600 (272.0) | VC125Q-2 |
| PS90Q-NBR175 | 1.75 x 1.75 (44 x 44) | 9.25 (235) | 4.98 (127) | 3.17 (81) | 275 (125.0) | VP90Q |
| PS128Q-NBR200 | 2.00 x 2.00 (51 x 51) | 13.25 (337) | 5.80 (147) | 3.28 (83) | 600 (272.0) | VP128Q |
| PS128Q-NBR300 | 3.00 x 3.00 (76 x 76) | 13.25 (337) | 5.80 (147) | 3.28 (83) | 600 (272.0) | VP128Q |
| PS128Q-NBR360 | 3.00 x 6.00 (76 x 152) | 13.25 (337) | 6.30 (160) | 4.44 (113) | 600 (272.0) | VP128Q |
| PS158Q-NBR360 | 3.00 x 6.00 (76 x 152) | 16.25 (413) | 11.13 (284) | 6.76 (172) | 1200 (544) | VP158Q |
| PS158Q-NBR-570 | 5.00 x 7.00 (127 x 178) | 16.25 (413) | 12.13 (308) | 7.69 (195) | 1200 (544) | VP158Q |

Clevis Mount Spring-Loaded Series





ANVER's larger vacuum cups and vacuum pads can be mounted using a quad spring suspension assembly. This mounting configuration ensures consistent attachment by allowing for adjustment to uneven or slightly tilted surfaces. A wide variety of slides are available for mounting to most standard load beam and crossarm sizes. For use with Large VC Series Cups and Large VP Series Pads.



| Suspension Assembly | Slide Size (Sq.) in. (mm) | Cup Dia. in. (mm) | A in. (mm) | B in. (mm) | C in. (mm) | Rated Load* Ib (kg) | Vacuum Cup Number |
|------------------------|---------------------------------|-------------------------|------------------|------------------|------------------|---------------------------|----------------------|
| PS95C- | 1.75 | 10.00 | 5.81 | 3.31 | 2.64 | 250 | VC95Q |
| NBR175 | (44) | (254) | (148) | (84) | (67) | (113.6) | |
| PS95C- | 2.00 | 10.00 | 6.06 | 3.31 | 2.64 | 250 | VC95Q |
| NBR200 | (51) | (254) | (154) | (84) | (67) | (113.6) | |
| PS95C- | 3.00 | 10.00 | 8.11 | 3.31 | 4.45 | 250 | VC95Q |
| NBR300 | (76) | (254) | (206) | (84) | (113) | (113.6) | |
| PS125C- | 2.00 | 13.00 | 6.78 | 4.03 | 3.38 | 500 | VC125Q-2 |
| NBR200 | (51) | (330) | (172) | (102) | (86) | (227.3) | |
| PS125C- | 3.00 | 13.00 | 8.84 | 4.03 | 5.19 | 500 | VC125Q-2 |
| NBR300 | (76) | (330) | (225) | (102) | (132) | (227.3) | |
| PS60C- | 2.00 | 6.13 | 5.75 | 3.00 | 3.38 | 110 | VP60 |
| NBR200 | (51) | (156) | (146) | (76) | (86) | (50) | |
| PS70C- | 2.00 | 7.13 | 5.75 | 3.00 | 3.38 | 160 | VP70 |
| NBR200 | (51) | (181) | (146) | (76) | (86) | (73) | |
| PS80C- | 2.00 | 8.25 | 8.25 | 3.06 | 3.38 | 220 | VP80 |
| NBR200 | (51) | (210) | (210) | (78) | (86) | (100) | |
| PS90C- | 1.75 | 9.25 | 5.48 | 2.98 | 2.50 | 275 | VP90Q |
| NBR175 | (44) | (235) | (139) | (76) | (64) | (125.0) | |
| PS90C- | 2.00 | 9.25 | 5.73 | 2.98 | 2.50 | 275 | VP90Q |
| NBR200 | (51) | (235) | (146) | (76) | (64) | (125.0) | |
| PS90C- | 3.00 | 9.25 | 7.78 | 2.98 | 4.31 | 275 | VP90Q |
| NBR300 | (76) | (235) | (198) | (76) | (109) | (125.0) | |
| PS128C- | 2.00 | 13.25 | 5.67 | 2.92 | 3.25 | 600 | VP128C |
| NBR200 | (51) | (337) | (144) | (74) | (83) | (272.2) | |
| PS128C- | 3.00 | 13.25 | 7.73 | 2.92 | 4.31 | 600 | VP128C |
| NBR300 | (76) | (337) | (196) | (74) | (109) | (272.2) | |
| PS158C- | 3.00 | 16.25 | 5.56 | 3.94 | 9.00 | 1200 | VP158C |
| NBR300 | (76) | (413) | (141) | (98) | (2.29) | (544.0) | |

^{*} The cup capacities shown above are based on 24"Hg at sea level with a safety factor of two (2) in the horizontal (flat), and four (4) in the vertical (upright). Vertical Load Capacity is half of the listed Horizontal Load Capacities above.

Rated Load Capacities are estimated; actual capacity will vary based on the load surface and the level of vacuum.