Vacuum Cups

Cup Mounts

Manifolds

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Vacuum Products

Table of Contents

**Vacuum Cups**

Vacuum Cup Families and Features ..........................Page 4
Best Vacuum Cup for the Job..................................Page 5
Durometer and Mounting Options ..........................Page 6
ACU Index, How Vacuum Works, Cup Usage,
and Safety Factor ............................................Page 7
Destacker Stress-Relieving Vacuum Cups .................Page 8
Traction Vacuum Cups .......................................Page 9
Round Flatfoot Vacuum Cups ..................................Page 10
CC Series Round Flatfoot Vacuum Cups ....................Page 11
Round Belcup Vacuum Cups ..................................Page 12
Round Deepdish Vacuum Cups ................................Page 13
Oval Flatfoot Vacuum Cups ....................................Page 14
Oval Deepdish Vacuum Cups ..................................Page 15
Application Photos .............................................Page 16
Micro Series Vacuum Cups ....................................Page 17-19

**Mag-Lift Magnets**

Mag-Lift Magnets Technical Information ...............Page 20
Mag-Lift Magnets Features and Dimensions ............Page 21

**Venturi Style Vacuum Generator Cup Mounts**

Venturi and Spring Cup Mount Features and
Specifications ..................................................Page 22
Auto Release Venturi ........................................Page 23
Low Profile 750/19 Series with Apple Core
and Blow-Off ..................................................Page 24
750/19 Series with Apple Core and Blow-Off ..........Page 25
750/19 Series with Apple Core .............................Page 26
500 Series MicroTool with Apple Core ....................Page 27
6/8/312 Series Block Style Venturi
with Remote Mounting ....................................Page 28
8/312 Series Block Style Venturi
with Remote Mounting and Blow-Off ....................Page 29
Port Only Adaptor Cup Mounts
750/19 Series with Apple Core........................ Page 30
500 Series MicroTool with Apple Core................. Page 31
1/8 NPT Port Extension.................................. Page 31

Venturi Style Vacuum Generator for Spring-Loaded Cup Mounts
Low Profile 000 Series with Blow-Off............. Page 32
000 Series with Blow-Off.............................. Page 33

Vacuum Switch
Micro Connector Vacuum Switch.................. Page 34

Spring-Loaded Cup Mounts
Micro Series Level Compensators.............. Page 35
Bulkhead Style Standard Cup Mount.............. Page 36
Apple-Core Style Standard Cup Mount.......... Page 37
Locating Pins................................. Page 38
Locating Pins Travel and Ordering Information.. Page 39
Extended Travel Spring-Loaded Cup Mounts... Page 40-42
Proximity Switch Mounts......................... Page 43

Manifolds
Boom Mounted 4-Port Single Manifold
with 30° Vacuum Port Input....................... Page 44
Boom Mounted 4-Port Single Manifold........ Page 45
Boom Mounted 8-Port Double Manifold......... Page 46
Boom Mounted 6-Port Single Manifold.......... Page 47
Block Style Manifolds.......................... Page 48-50
Vacuum Cups
Vacuum Cup Families and Features

Round Destacker Vacuum Cup
- Designed specifically for pogo-style destacking applications.
- High compressive-strength and shock-resistance extends cup life.
- High vertical lifting capacity prior to part release.
- Provides low-impact part release during pull-off by utilizing the patent-pending stress relief port.

Round Traction Vacuum Cups
- For applications with slick/oily surfaces or for destackers.
- Internal cleats hold part more securely in high speed applications.
- Bellows add flexibility for minor misalignments.

Round Flatfoot Vacuum Cups
- For applications with flat to medium curvature and dry to medium slick/oily surfaces.
- Cleats provide full support to prevent damage to thin outer panels.
- Maximizes lifting capacity and minimizes slip.

Round Belcup Vacuum Cups
- For applications with flat to mild contoured surfaces.
- Bellows add flexibility for minor misalignments.
- Ideal for general purpose.

Round Deepdish Vacuum Cups
- For applications with contoured surfaces.
- Thin lip wraps and seals curved surfaces tightly.
- Bell structure and internal design works best on materials with convex surfaces.

Oval Flatfoot Vacuum Cups
- For applications with medium slick/oily to dry surfaces.
- Oval shape maximizes contact on narrow panels and maximizes vertical lifting capacity.
- Cleats provide full support to prevent damage to thin outer panels.

Oval Deepdish Vacuum Cups
- For applications with contoured surfaces as well as wet or oily surfaces.
- Oval shape maximizes contact on narrow panels and bell structure works well on materials with convex surfaces.

US Patent #7,309,089
# Vacuum Cups

**Best Vacuum Cup for the Job**

<table>
<thead>
<tr>
<th>Vacuum Cup Family</th>
<th>Application Direction</th>
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</thead>
<tbody>
<tr>
<td><strong>Destacker Vacuum Cups</strong></td>
<td></td>
</tr>
<tr>
<td>US Patent # 7,309,089</td>
<td></td>
</tr>
<tr>
<td><strong>Round Traction Vacuum Cups</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Round Flatfoot Vacuum Cups</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Round Belcup Vacuum Cups</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Round Deepdish Vacuum Cups</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Oval Deepdish Vacuum Cups</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Oval Flatfoot Vacuum Cups</strong></td>
<td></td>
</tr>
</tbody>
</table>

- **1** Best Cup for the Job
- **2** Not Advised for the application
- **3** MILD
- **4** FLAT
- **5** HORIZONTAL
- **6** VERTICAL

This chart is a guide to aid in selecting the right family of cup for general surfaces, contours, and applications.
Vacuum Cups
Durometer and Mounting Options

DE-STA-CO Vacuum Cups are offered in different families, and may be offered in different durometers. Vacuum cups are also offered in Imperial and Metric mounting options which may vary according to the size and type of the vacuum cup.

Vacuum cups can be ordered as follows:
CPI-“MODEL”-“Mounting”-“Durometer”

Vacuum Cup Durometers (“DR”) (Color equals Durometer (Shore A Scale))

30
This soft durometer is useful for dryer, contoured panels. However, this durometer has less life.

45
This medium hard durometer will seal and adapt to contours well and is good for all around usage. This durometer has a longer life than the 30 durometer.

60
This hard durometer is helpful for extremely oily panels and flat surfaces such as a destacker operation. Vacuum cups of this durometer will have the longest life span.

= Durometer not available in cup style.

Imperial Vacuum Cup Mounting Options (“M”)

K
1/4” NPT

B
3/8” NPT

C
1.25” SQUARE

D
1/2” NPT

U-18
1/8” NPT MALE

Metric Vacuum Cup Mounting Options (“M”)

A
1/4” G

B
3/8” G

C
1.25” SQUARE

Specialty Vacuum Cup Mounting Options (“M”)

M10
M10 MALE

M8F
M8 FEMALE

E1
QUICK DISCONNECT

= Mount only available in this cup size.
= Mount not available in this cup size.

US Patent# 7,309,089
Application, Characteristics, and Usage (ACU) Index

Determining the type and durometer of vacuum cup appropriate for a particular application is typically based on three criteria.

- How oily or slick the part surface is.
- How much contour or curvature the part has.
- How long you can expect the cup to last (Longevity)?

A set of vacuum cups of the same size and type, each having different durometers may handle oily/slick or contoured parts differently. However, cup longevity of each may be affected as a result of durometer, application and usage. The ACU Index is a reference shown with each type of vacuum cup and is used to illustrate the differences between vacuum cup types and durometers, when considering the above criteria.

How Vacuum Cups work

A panel adheres to a vacuum cup because the surrounding pressure (atmospheric pressure) is greater than the pressure inside the vacuum cup. The greater pressure pushes the panel onto the cup.

To create the low pressure in the vacuum cup, it is connected to a vacuum generator. The lower the pressure (higher vacuum) inside the cup; the greater the lifting force of the suction cup.

Vacuum Cup Usage

It is important to use the proper size and quantity of vacuum cups needed for your application. There are five steps which will help you make sure your application has the appropriate vacuum cup usage.

**Step 1:** Determine application and find appropriate cup family type.

**Step 2:** Determine panel weight.

**Step 3:** Find maximum cup size based on panel contour and shape.

**Step 4:** Find the appropriate cup size lifting capacity in the chart, found on the catalog page featuring the cup family type chosen.

**Step 5:** Determine safety factor determined on application (See Below).

Use the formula on the right to determine the proper amount of cups needed to move your panel.

**Safety Factor**

Ideal plant conditions*: (2)

Fast moving robot: (+1)
Slick or Oily Panel: (+1)
Flexing Panel: (+2)
Small cups: (+1)
High Horizontal Loads: (+1)

Starting with Ideal conditions (2), add each additional conditions to determine total safety factor.

For example:

<table>
<thead>
<tr>
<th>Condition</th>
<th>Safety Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ideal conditions</td>
<td>2</td>
</tr>
<tr>
<td>Fast moving robot</td>
<td>+1</td>
</tr>
<tr>
<td>Flexing Panel</td>
<td>+2</td>
</tr>
<tr>
<td>Total Safety Factor</td>
<td>5</td>
</tr>
</tbody>
</table>

(*Ideal conditions are defined as having no surface, operational, or environmental conditions which could adversely effect the performance to the vacuum cup.)
Destacker Stress Relieving Vacuum Cups
Dimensions and Ordering Information

Max Lifting Capacity:
75DC [30DC]:
@ .51 bar [15 inHg]: 15 kg [33.8 lb]
@ .68 bar [20 inHg]: 21 kg [45.2 lb]
@ .85 bar [25 inHg]: 26 kg [56.5 lb]
100DC [40DC]:
@ .51 bar [15 inHg]: 31 kg [68.5 lb]
@ .68 bar [20 inHg]: 40 kg [87.7 lb]
@ .85 bar [25 inHg]: 49 kg [107.3 lb]

Specifications:
Temperature:
15-59 Sec: -20° to 250° F
[-29° to 121° C]
1-5 min: 15° to 180° F
[-9° to 82° C]
Material: Nitrile
Chemical Resistance:
Oil, water, grease, hydraulic fluid, alcohol

Max Lifting Capacity:
75DC [30DC]:
@ .51 bar [15 inHg]: 15 kg [33.8 lb]
@ .68 bar [20 inHg]: 21 kg [45.2 lb]
@ .85 bar [25 inHg]: 26 kg [56.5 lb]
100DC [40DC]:
@ .51 bar [15 inHg]: 31 kg [68.5 lb]
@ .68 bar [20 inHg]: 40 kg [87.7 lb]
@ .85 bar [25 inHg]: 49 kg [107.3 lb]

Specifications:
Temperature:
15-59 Sec: -20° to 250° F
[-29° to 121° C]
1-5 min: 15° to 180° F
[-9° to 82° C]
Material: Nitrile
Chemical Resistance:
Oil, water, grease, hydraulic fluid, alcohol
Round Traction Vacuum Cups

Dimensions and Ordering Information

Vacuum Cup Capacities:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
<th>&quot;C&quot;</th>
<th>&quot;D&quot;</th>
<th>&quot;E&quot;</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>90HT</td>
<td>88.9</td>
<td>43.44</td>
<td>20.8</td>
<td>63.5</td>
<td>41.9</td>
<td>73 g</td>
</tr>
<tr>
<td>[35TC]</td>
<td>[3.50]</td>
<td>[1.71]</td>
<td>[1.82]</td>
<td>[2.50]</td>
<td>[1.65]</td>
<td>[2.6 oz]</td>
</tr>
<tr>
<td>115HT</td>
<td>114.3</td>
<td>46.1</td>
<td>22.1</td>
<td>82.4</td>
<td>57.2</td>
<td>125 g</td>
</tr>
<tr>
<td>[45TC]</td>
<td>[4.50]</td>
<td>[1.81]</td>
<td>[1.87]</td>
<td>[3.25]</td>
<td>[2.25]</td>
<td>[4.4 oz]</td>
</tr>
<tr>
<td>140HT</td>
<td>139.7</td>
<td>46.1</td>
<td>22.1</td>
<td>101.4</td>
<td>77.1</td>
<td>204 g</td>
</tr>
<tr>
<td>[55TC]</td>
<td>[5.50]</td>
<td>[1.81]</td>
<td>[1.87]</td>
<td>[4.00]</td>
<td>[3.04]</td>
<td>[7.2 oz]</td>
</tr>
</tbody>
</table>

Specifications:

Temperature:
- **15-59 Sec**: -20° to 250° F (-29° to 121° C)
- **1-5 min**: 15° to 180° F (-9° to 82° C)

Material: Nitrile

Chemical Resistance:
- Oil, water, grease, hydraulic fluid, alcohol

**Rounded Tractor**

**DIMENSIONS**

- **CIRCUMFERENCE**: 22.0
- **HEIGHT**: .87
- **DUROMETER**: .35
- **HARDNESS**: 8.9

**ACU INDEX**

- **CUP LONGEVITY**: OILY/SLICK
- **CUP LONGEVITY**: MORELESS
- **CONTOUR**: OILY/SLICK
- **PART SURFACE**: MORELESS

**IMPERIAL ORDERING INFORMATION**

- Ø3.50” . . . . . . . CPI - 35TC - “M” - “DR”
- Ø4.50” . . . . . . . CPI - 45TC - “M” - “DR”
- Ø5.50” . . . . . . . CPI - 55TC - “M” - “DR”

**METRIC ORDERING INFORMATION**

- Ø90mm . . . . . . . CPI - 90HT - “M” - “DR”
- Ø115mm . . . . . . . CPI - 115HT - “M” - “DR”
- Ø140mm . . . . . . . CPI - 140HT - “M” - “DR”

**WEIGHT**

- Ø90: 73 g (2.6 oz)
- Ø115: 125 g (4.4 oz)
- Ø140: 204 g (7.2 oz)

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Subject to Technical Modifications Without Notice
Round Flatfoot Vacuum Cups
Dimensions and Ordering Information

Vacuum Cup Capacities:

<table>
<thead>
<tr>
<th>APPL.</th>
<th>HOR. DRY</th>
<th>HOR. WET</th>
<th>VER. LIFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>50PF</td>
<td>6.4 kg</td>
<td>2.7 kg</td>
<td>9.1 kg</td>
</tr>
<tr>
<td>[20FF]</td>
<td>[14 lb]</td>
<td>[6 lb]</td>
<td>[20 lb]</td>
</tr>
<tr>
<td>75PF</td>
<td>13.6 kg</td>
<td>5.9 kg</td>
<td>27.2 kg</td>
</tr>
<tr>
<td>[30FF]</td>
<td>[30 lb]</td>
<td>[13 lb]</td>
<td>[60 lb]</td>
</tr>
<tr>
<td>100PF</td>
<td>15.9 kg</td>
<td>9.1 kg</td>
<td>46.3 kg</td>
</tr>
<tr>
<td>[40FF]</td>
<td>[35 lb]</td>
<td>[20 lb]</td>
<td>[102 lb]</td>
</tr>
<tr>
<td>125PF</td>
<td>31.8 kg</td>
<td>25.8 kg</td>
<td>74.8 kg</td>
</tr>
<tr>
<td>[50FF]</td>
<td>[70 lb]</td>
<td>[55 lb]</td>
<td>[165 lb]</td>
</tr>
</tbody>
</table>

Specifications:
- Temperature: 15-59 Sec: -20° to 250° F [-29° to 121° C]
  1-5 min: 15° to 180° F [-9° to 82° C]
- Material: Nitrile
- Chemical Resistance: Oil, water, grease, hydraulic fluid, alcohol

ROUND FLATFOOT

<table>
<thead>
<tr>
<th>MODEL</th>
<th>“A”</th>
<th>“B”</th>
<th>“C”</th>
<th>“D”</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>50PF</td>
<td>50.8</td>
<td>22.5</td>
<td>13.0</td>
<td>19.1</td>
<td>40 g</td>
</tr>
<tr>
<td>[20FF]</td>
<td>[2.00]</td>
<td>[.89]</td>
<td>[.51]</td>
<td>[.75]</td>
<td>[1.4 oz]</td>
</tr>
<tr>
<td>75PF</td>
<td>76.2</td>
<td>25.4</td>
<td>18.2</td>
<td>39.6</td>
<td>50 g</td>
</tr>
<tr>
<td>[30FF]</td>
<td>[3.00]</td>
<td>[1.00]</td>
<td>[.72]</td>
<td>[1.56]</td>
<td>[2.0 oz]</td>
</tr>
<tr>
<td>100PF</td>
<td>101.6</td>
<td>33.3</td>
<td>22.2</td>
<td>39.6</td>
<td>96 g</td>
</tr>
<tr>
<td>[40FF]</td>
<td>[4.00]</td>
<td>[1.31]</td>
<td>[.88]</td>
<td>[1.56]</td>
<td>[3.4 oz]</td>
</tr>
<tr>
<td>125PF</td>
<td>127.0</td>
<td>38.2</td>
<td>25.4</td>
<td>57.2</td>
<td>159 g</td>
</tr>
<tr>
<td>[50FF]</td>
<td>[5.00]</td>
<td>[1.50]</td>
<td>[1.00]</td>
<td>[2.25]</td>
<td>[5.6 oz]</td>
</tr>
</tbody>
</table>

ACU INDEX

IMPERIAL ORDER INFORMATION

Ø2.00” ........ CPI - 20FF - “M” - “DR”
Ø3.00” ........ CPI - 30FF - “M” - “DR”
Ø4.00” ........ CPI - 40FF - “M” - “DR”
Ø5.00” ........ CPI - 50FF - “M” - “DR”

DR = DUROMETER
30 45 60
M = MOUNTS AVAILABLE
K B C D

METRIC ORDERING INFORMATION

Ø50mm ........ CPI - 50PF - “M” - “DR”
Ø75mm ........ CPI - 75PF - “M” - “DR”
Ø100mm ....... CPI - 100PF - “M” - “DR”
Ø125mm ....... CPI - 125PF - “M” - “DR”

DR = DUROMETER
30 45 60
M = MOUNTS AVAILABLE
A B C
CC Series Round Flatfoot Vacuum Cups

Dimensions and Ordering Information

Applications:
- In automotive applications, this cup is used primarily for stabilizing a panel where typical vacuum cups cannot be used during transfer.
- In industrial manufacturing, this cup is ideal for use in light-duty applications such as light appliance manufacturing and can be used in some plastic injection molding processes.

Specifications:
- Temperature:
  - 15-59 Sec: -20° to 250° F [-29° to 121° C]
  - 1-5 min: 15° to 180° F [-9° to 82° C]
- Material: Nitrile
- Chemical Resistance: Oil, water, grease, hydraulic fluid, alcohol

Ordering Information:

Ø1.25” ............. CPI - 10CC - U18 - 60
Round Belcup Vacuum Cups

Dimension and Ordering Information

**Vacuum Cup Capacities:**

<table>
<thead>
<tr>
<th>APPL</th>
<th>HOR. DRY</th>
<th>HOR. WET</th>
<th>VER. LIFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>40BT [15AC]</td>
<td>2.7 kg [6 lb]</td>
<td>1.4 kg [3 lb]</td>
<td>3.6 kg [8 lb]</td>
</tr>
<tr>
<td>50BT [20AC]</td>
<td>3.9 kg [8.5 lb]</td>
<td>2.0 kg [4.5 lb]</td>
<td>11.8 kg [26 lb]</td>
</tr>
<tr>
<td>75BT [30AC]</td>
<td>5.4 kg [12 lb]</td>
<td>2.7 kg [6 lb]</td>
<td>25.4 kg [56 lb]</td>
</tr>
<tr>
<td>100BT [40AC]</td>
<td>15.0 kg [33 lb]</td>
<td>3.6 kg [8 lb]</td>
<td>40.4 kg [89 lb]</td>
</tr>
<tr>
<td>125BT [50AC]</td>
<td>24.0 kg [53 lb]</td>
<td>6.8 kg [15 lb]</td>
<td>62.6 kg [138 lb]</td>
</tr>
</tbody>
</table>

**Specifications:**
- **Temperature:**
  - **15-59 Sec:** -20° to 250° F [-29° to 121° C]
  - **1-5 min:** 15° to 180° F [-9° to 82° C]
- **Material:** Nitrile
- **Chemical Resistance:** Oil, water, grease, hydraulic fluid, alcohol

---

**ROUND BELCUP**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>“A”</th>
<th>“B”</th>
<th>“C”</th>
<th>“D”</th>
<th>“E”</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>50BT [20AC]</td>
<td>57.4 [2.26]</td>
<td>37.4 [1.47]</td>
<td>18.3 [0.72]</td>
<td>57.9 [2.28]</td>
<td>38.1 [1.50]</td>
<td>57 g [2.0 oz]</td>
</tr>
<tr>
<td>75BT [30AC]</td>
<td>78.9 [3.11]</td>
<td>38.8 [1.53]</td>
<td>19.8 [0.78]</td>
<td>80.0 [3.15]</td>
<td>56.6 [2.23]</td>
<td>91 g [3.2 oz]</td>
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<tr>
<td>100BT [40AC]</td>
<td>102.4 [4.03]</td>
<td>37.8 [1.49]</td>
<td>18.6 [0.73]</td>
<td>101.6 [4.00]</td>
<td>72.6 [2.85]</td>
<td>159 g [5.6 oz]</td>
</tr>
<tr>
<td>125BT [50AC]</td>
<td>127.0 [5.00]</td>
<td>38.1 [1.50]</td>
<td>19.0 [0.75]</td>
<td>127.0 [5.00]</td>
<td>97.8 [3.65]</td>
<td>232 g [8.2 oz]</td>
</tr>
</tbody>
</table>

**ACU INDEX**

**IMPERIAL ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Ø1.50”</th>
<th>Ø2.00”</th>
<th>Ø3.00”</th>
<th>Ø4.00”</th>
<th>Ø5.00”</th>
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<tbody>
<tr>
<td>CPI - 15AC - “M” - “DR”</td>
<td>CPI - 20AC - “M” - “DR”</td>
<td>CPI - 30AC - “M” - “DR”</td>
<td>CPI - 40AC - “M” - “DR”</td>
<td>CPI - 50AC - “M” - “DR”</td>
</tr>
<tr>
<td>DR = DUROMETER</td>
<td>DR = DUROMETER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M = MOUNTS AVAILABLE</td>
<td>M = MOUNTS AVAILABLE</td>
<td></td>
<td></td>
<td></td>
</tr>
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**METRIC ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Ø40mm</th>
<th>Ø50mm</th>
<th>Ø75mm</th>
<th>Ø100mm</th>
<th>Ø125mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPI - 40BT - “M” - “DR”</td>
<td>CPI - 50BT - “M” - “DR”</td>
<td>CPI - 75BT - “M” - “DR”</td>
<td>CPI - 100BT - “M” - “DR”</td>
<td>CPI - 125BT - “M” - “DR”</td>
</tr>
<tr>
<td>DR = DUROMETER</td>
<td>DR = DUROMETER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M = MOUNTS AVAILABLE</td>
<td>M = MOUNTS AVAILABLE</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Subject to Technical Modifications Without Notice
Vacuum Cup Capacities:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
<th>&quot;C&quot;</th>
<th>&quot;D&quot;</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>50DM</td>
<td>50.8</td>
<td>29.1</td>
<td>18.3</td>
<td>38.1</td>
<td>40 g</td>
</tr>
<tr>
<td>[20DD]</td>
<td>[2.00]</td>
<td>[1.14]</td>
<td>[1.72]</td>
<td>[1.50]</td>
<td>[1.4 oz]</td>
</tr>
<tr>
<td>75DM</td>
<td>76.2</td>
<td>40.4</td>
<td>24.3</td>
<td>44.0</td>
<td>57 g</td>
</tr>
<tr>
<td>[30DD]</td>
<td>[3.00]</td>
<td>[1.59]</td>
<td>[1.96]</td>
<td>[1.73]</td>
<td>[2.0 oz]</td>
</tr>
<tr>
<td>100DM</td>
<td>101.6</td>
<td>44.5</td>
<td>20.8</td>
<td>44.5</td>
<td>96 g</td>
</tr>
<tr>
<td>[40DD]</td>
<td>[4.00]</td>
<td>[1.75]</td>
<td>[1.82]</td>
<td>[1.75]</td>
<td>[3.4 oz]</td>
</tr>
</tbody>
</table>

Specifications:
- **Temperature:**
  - 15-59 Sec: -20° to 250° F [-29° to 121° C]
  - 1-5 min: 15° to 180° F [-9° to 82° C]
- **Material:** Nitrile
- **Chemical Resistance:** Oil, water, grease, hydraulic fluid, alcohol

**ROUND DEEPDISH**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
<th>&quot;C&quot;</th>
<th>&quot;D&quot;</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>50DM</td>
<td>50.8</td>
<td>29.1</td>
<td>18.3</td>
<td>38.1</td>
<td>40 g</td>
</tr>
<tr>
<td>[20DD]</td>
<td>[2.00]</td>
<td>[1.14]</td>
<td>[1.72]</td>
<td>[1.50]</td>
<td>[1.4 oz]</td>
</tr>
<tr>
<td>75DM</td>
<td>76.2</td>
<td>40.4</td>
<td>24.3</td>
<td>44.0</td>
<td>57 g</td>
</tr>
<tr>
<td>[30DD]</td>
<td>[3.00]</td>
<td>[1.59]</td>
<td>[1.96]</td>
<td>[1.73]</td>
<td>[2.0 oz]</td>
</tr>
<tr>
<td>100DM</td>
<td>101.6</td>
<td>44.5</td>
<td>20.8</td>
<td>44.5</td>
<td>96 g</td>
</tr>
<tr>
<td>[40DD]</td>
<td>[4.00]</td>
<td>[1.75]</td>
<td>[1.82]</td>
<td>[1.75]</td>
<td>[3.4 oz]</td>
</tr>
</tbody>
</table>

**ACU INDEX**

- **Diameter:**
  - OILY/SLICK
  - OILY/SLICK
  - OILY/SLICK
- **Contour:**
  - LESS
  - MORE
  - LESS
- **Surface:**
  - LESS
  - MORE
  - LESS
- **Longevity:**
  - MORE
  - LESS
  - MORE

**IMPERIAL ORDERING INFORMATION**

- Ø2.00” ......... CPI - 20DD - “M” - “DR”
- Ø3.00” ......... CPI - 30DD - “M” - “DR”
- Ø4.00” ......... CPI - 40DD - “M” - “DR”

**METRIC ORDERING INFORMATION**

- Ø50mm ......... CPI - 50DM - “M” - “DR”
- Ø75mm ......... CPI - 75DM - “M” - “DR”
- Ø100mm ......... CPI - 100DM - “M” - “DR”

**Weight:**

- 30 DUROMETER
- 45 DUROMETER

**M = MOUNTS AVAILABLE**

Subject to Technical Modifications Without Notice
Oval FlatFoot Vacuum Cups
Dimensions and Ordering Information

Vacuum Cup Capacities:

<table>
<thead>
<tr>
<th>APPL.</th>
<th>HOR. DRY</th>
<th>HOR. WET</th>
<th>VER. LIFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>63-125PF</td>
<td>6.8 kg</td>
<td>2.3 kg</td>
<td>8.2 kg</td>
</tr>
<tr>
<td>[153FF]</td>
<td>[15 lb]</td>
<td>[5 lb]</td>
<td>[18 lb]</td>
</tr>
<tr>
<td>60-125PF</td>
<td>8.2 kg</td>
<td>2.7 kg</td>
<td>19.1 kg</td>
</tr>
<tr>
<td>[24FF]</td>
<td>[18 lb]</td>
<td>[6 lb]</td>
<td>[42 lb]</td>
</tr>
<tr>
<td>60-125PF</td>
<td>20.4 kg</td>
<td>3.2 kg</td>
<td>25 kg</td>
</tr>
<tr>
<td>[255FF]</td>
<td>[45 lb]</td>
<td>[7 lb]</td>
<td>[55 lb]</td>
</tr>
<tr>
<td>75-150PF</td>
<td>24.9 kg</td>
<td>4.1 kg</td>
<td>32.7 kg</td>
</tr>
<tr>
<td>[36FF]</td>
<td>[55 lb]</td>
<td>[9 lb]</td>
<td>[72 lb]</td>
</tr>
</tbody>
</table>

Specifications:

Temperature:
15-59 Sec: -20° to 250° F
1-5 min: 15° to 180° F

Material: Nitrile

Chemical Resistance:
Oil, water, grease, hydraulic fluid, alcohol

Oval FlatFoot Vacuum Cups

Specifications:

Temperature:
15-59 Sec: -20° to 250° F
1-5 min: 15° to 180° F

Material: Nitrile

Chemical Resistance:
Oil, water, grease, hydraulic fluid, alcohol
Oval Deepdish Vacuum Cups

Dimensions and Ordering Information

Specifications:
Temperature:
15-59 Sec: -20° to 250° F
1-5 min: 15° to 180° F

Material: Nitrile
Chemical Resistance:
Oil, water, grease, hydraulic fluid, alcohol

Vacuum Cup Capacities:

<table>
<thead>
<tr>
<th>Model</th>
<th>25-125DM (15DD)</th>
<th>75-150DM (36DD)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15DD</td>
<td>36DD</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>APPL.</td>
<td>HOR. DRY</td>
<td>HOR. WET</td>
</tr>
<tr>
<td>25-125DM</td>
<td>10.0 kg [22 lb]</td>
<td>3.2 kg [7 lb]</td>
</tr>
<tr>
<td>75-150DM</td>
<td>24.9 kg [55 lb]</td>
<td>10.4 kg [23 lb]</td>
</tr>
</tbody>
</table>

ACU INDEX

OILY/SLICK

LESS MORE

PART SURFACE

LESS MORE

CUP LONGEVITY

LESS MORE

MORELESS

WEIGHT

25-125DM (15DD)
35 g

75-150DM (36DD)
201 g

OVAL DEEPDISH

<table>
<thead>
<tr>
<th>Model</th>
<th>25-125DM (15DD)</th>
<th>75-150DM (36DD)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15DD</td>
<td>36DD</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;A&quot;</td>
<td>128.7</td>
<td>155.8</td>
</tr>
<tr>
<td>&quot;B&quot;</td>
<td>[5.06]</td>
<td>[6.13]</td>
</tr>
<tr>
<td>&quot;C&quot;</td>
<td>17.1</td>
<td>36.7</td>
</tr>
<tr>
<td>&quot;D&quot;</td>
<td>8.7</td>
<td>16.51</td>
</tr>
<tr>
<td>&quot;E&quot;</td>
<td>27.0</td>
<td>79.6</td>
</tr>
<tr>
<td>&quot;F&quot;</td>
<td>12.9</td>
<td>39.7</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>114.5</td>
<td>118.4</td>
</tr>
<tr>
<td></td>
<td>[4.51]</td>
<td>[4.65]</td>
</tr>
<tr>
<td></td>
<td>[1.2 oz]</td>
<td>[7.1 oz]</td>
</tr>
</tbody>
</table>

IMPERIAL ORDERING INFORMATION

1.00” x 5.00” . . . CPI - 15DD - “M” - “45”
3.00” x 6.00” . . . CPI - 36DD - “M” - “45”

METRIC ORDERING INFORMATION

25 x 125mm CPI - 25-125DM - “M” - “45”
75 x 150mm CPI - 75-150DM - “M” - “45”

DR = DUROMETER

M = MOUNTS AVAILABLE

CAD
Vacuum Cups
Application Photos

Round Traction
CPI-45TC-B-45 (Shown)

Round Deepdish
CPI-40DD-B-45 (Shown)

Oval Deepdish
CPI-15DD-B-45 (Shown)

Round Belcup
CPI-30AC-B-45 (Shown)

Round Flatfoot
CPI-40FF-B-45 (Shown)

Oval Flatfoot
CPI-36FF-B-45 (Shown)

CC Series Round Flatfoot
CPI-10CC-U18-60 (Shown)

Destacker Stress Relieving
CPI-40DC-B-60 (Shown)
US Patent# 7,309,089

Oval Deepdish
CPI-36DD-B-45 (Shown)
Specifications:
Material Operating
Temperature:
Viton: -40° to 450° F
[-40° to 232° C]
Silicone: -100° to 400° F
[-73° to 204.4° C]
Nitrile: -40° to 275° F
[-40° to 135° C]
Durometer: A50

Applications:
• Relatively flat surfaces.
• Dry to moderate oily/slippery surfaces.
• Low Compression distances.
• Higher precision applications.

Micro Series Round Flat Vacuum Cups
Dimensions and Ordering Information

Micro Fitting Threads

<table>
<thead>
<tr>
<th>THREAD</th>
<th>“T”</th>
<th>“F”</th>
<th>“G”</th>
<th>“H”</th>
</tr>
</thead>
<tbody>
<tr>
<td>10M (M5) (10-32 MALE)</td>
<td>5.1 [0.20]</td>
<td>4.1 [.16]</td>
<td>7.9 [.31]</td>
<td></td>
</tr>
<tr>
<td>18M (G1/8) (MALE)</td>
<td>2.8 [0.11]</td>
<td>5.8 [.23]</td>
<td>14.2 [.56]</td>
<td></td>
</tr>
<tr>
<td>18F (G1/8) (FEMALE)</td>
<td>9.9 [0.39]</td>
<td>6.4 [.25]</td>
<td>14.2 [.56]</td>
<td></td>
</tr>
</tbody>
</table>

“M” = MATERIAL

| V | Viton Hi-Temp Applications where silicon is not allowed |
| S | Silicon Extremely hot or cold environments |
| N | Nitrile General Purpose |

ACU INDEX

Micro Series Round Flat Vacuum Cup

<table>
<thead>
<tr>
<th>MODEL</th>
<th>“A”</th>
<th>“B”</th>
<th>“C”</th>
<th>CUP WT</th>
<th>LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>VC-F15</td>
<td>16.5 [.65]</td>
<td>11.4 [.45]</td>
<td>10.4 [.41]</td>
<td>3.4 g [.11 oz]</td>
<td>.85 kg [1.88 lb]</td>
</tr>
<tr>
<td>VC-F20</td>
<td>22.1 [.87]</td>
<td>8.6 [.34]</td>
<td>7.1 [.28]</td>
<td>7.8 g [.25 oz]</td>
<td>1.47 kg [3.25 lb]</td>
</tr>
<tr>
<td>VC-F30</td>
<td>32.0 [1.26]</td>
<td>10.4 [.41]</td>
<td>8.1 [.32]</td>
<td>6.2 g [.20 oz]</td>
<td>2.55 kg [5.63 lb]</td>
</tr>
<tr>
<td>VC-F40</td>
<td>42.2 [1.66]</td>
<td>14.0 [.55]</td>
<td>11.4 [.45]</td>
<td>11.8 g [.38 oz]</td>
<td>4.08 kg [9.00 lb]</td>
</tr>
<tr>
<td>VC-F50</td>
<td>53.1 [2.08]</td>
<td>17.5 [.69]</td>
<td>14.5 [.57]</td>
<td>19.6 g [.63 oz]</td>
<td>7.54 kg [16.6 lb]</td>
</tr>
</tbody>
</table>

ORDERING INFORMATION

| Ø15mm | VC - F15 “M” “T” |
|Ø20mm | VC - F20 “M” “T” |
|Ø30mm | VC - F30 “M” “T” |
|Ø40mm | VC - F40 “M” “T” |
|Ø50mm | VC - F50 “M” “T” |

“M” = MATERIAL

| “T” = THREAD |
| V | S | N |

Not Available in Ø15 and Ø20mm

Only Available in Ø15 and Ø20mm
Micro Series Round Bellows Vacuum Cups

Applications:
- Moderately flat surfaces.
- Best performance on dry surfaces.
- Moderate compression distance.
- Bellows allows for minor misalignments.

Specifications:
Material Operating Temperature:
- Viton: -40° to 450° F [-40° to 232°C]
- Silicone: -100° to 400° F [-73° to 204.4°C]
- Nitrile: -40° to 275° F [-40° to 135°C]
Durometer: A50

<table>
<thead>
<tr>
<th>MICRO FITTING THREADS</th>
<th>THREAD “T”</th>
<th>“F”</th>
<th>“G”</th>
<th>“H”</th>
</tr>
</thead>
<tbody>
<tr>
<td>10M (M5) (10-32 MALE)</td>
<td>5.1 [.20]</td>
<td>4.1 [.16]</td>
<td>7.9 [.31]</td>
<td></td>
</tr>
<tr>
<td>18M (G1/8) (MALE)</td>
<td>2.8 [.11]</td>
<td>5.8 [.23]</td>
<td>14.2 [.56]</td>
<td></td>
</tr>
<tr>
<td>18F (G1/8) (FEMALE)</td>
<td>9.9 [.39]</td>
<td>6.4 [.25]</td>
<td>14.2 [.56]</td>
<td></td>
</tr>
</tbody>
</table>

“M” = MATERIAL

V - Viton Hi-Temp Applications where silicon is not allowed
S - Silicon Extremely hot or cold environments
N - Nitrile General Purpose

ACU INDEX

<table>
<thead>
<tr>
<th>MICRO SERIES ROUND BELLOWS VACUUM CUP</th>
<th>MODEL</th>
<th>“A”</th>
<th>“B”</th>
<th>“C”</th>
<th>“D”</th>
<th>CUP WT</th>
<th>LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>VC-B05</td>
<td>5.6 [0.22]</td>
<td>9.1 [.36]</td>
<td>7.6 [.30]</td>
<td>6.1 [.24]</td>
<td>5.8 g [.09 oz]</td>
<td>.04 kg [.10 lb]</td>
<td></td>
</tr>
<tr>
<td>VC-B15</td>
<td>16.0 [.63]</td>
<td>19.8 [.78]</td>
<td>13.2 [.52]</td>
<td>17.5 [.69]</td>
<td>3.7 g [.12 oz]</td>
<td>.57 kg [1.25 lb]</td>
<td></td>
</tr>
<tr>
<td>VC-B20</td>
<td>22.4 [.88]</td>
<td>17.5 [.69]</td>
<td>7.6 [.30]</td>
<td>23.9 [.94]</td>
<td>6.2 g [.20 oz]</td>
<td>1.02 kg [2.25 lb]</td>
<td></td>
</tr>
<tr>
<td>VC-B30</td>
<td>34.0 [1.34]</td>
<td>26.4 [.104]</td>
<td>11.4 [.45]</td>
<td>36.3 [.143]</td>
<td>11.5 g [.37 oz]</td>
<td>2.21 kg [4.88 lb]</td>
<td></td>
</tr>
<tr>
<td>VC-B40</td>
<td>42.9 [1.69]</td>
<td>27.4 [.108]</td>
<td>12.4 [.49]</td>
<td>46.2 [.182]</td>
<td>18.7 g [.60 oz]</td>
<td>3.97 kg [8.75 lb]</td>
<td></td>
</tr>
<tr>
<td>VC-B50</td>
<td>52.8 [2.08]</td>
<td>34.5 [.136]</td>
<td>14.5 [.57]</td>
<td>59.4 [2.34]</td>
<td>30.5 g [.98 oz]</td>
<td>6.63 kg [14.6 lb]</td>
<td></td>
</tr>
</tbody>
</table>

ORDERING INFORMATION

| Ø05mm | VC - B05 “M” - “T” |
| Ø10mm | VC - B10 “M” - “T” |
| Ø15mm | VC - B15 “M” - “T” |
| Ø20mm | VC - B20 “M” - “T” |
| Ø30mm | VC - B30 “M” - “T” |
| Ø40mm | VC - B40 “M” - “T” |
| Ø50mm | VC - B50 “M” - “T” |

“M” = MATERIAL
V - Viton
S - Silicone
N - Nitrile

“T” = THREAD
10M 18M 18F

Only Available in Ø5, Ø10, Ø15, Ø20mm
Micro Series Multi Bellows Vacuum Cups

Dimensions and Ordering Information

Specifications:
Material Operating Temperature:
Viton: -40° to 450° F [-40° to 232° C]
Silicone: -100° to 400° F [-73° to 204.4° C]
Nitrile: -40° to 275° F [-40° to 135° C]
Durometer: A50

Applications:
- Angled/curved/bumpy surfaces.
- Best performance on dry surfaces.
- Higher compression distance.
  (Reach in Box)
- Bellows allow for minor misalignments.
- Provides Partial extraction.

Micro Fit Fitting Threads

<table>
<thead>
<tr>
<th>THREAD</th>
<th>&quot;T&quot;</th>
<th>&quot;F&quot;</th>
<th>&quot;G&quot;</th>
<th>&quot;H&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>10M (M5) (10-32 MALE)</td>
<td>5.1</td>
<td>4.1</td>
<td>7.9</td>
<td></td>
</tr>
<tr>
<td>18M (G1/8) (MALE)</td>
<td>2.8</td>
<td>5.8</td>
<td>14.2</td>
<td></td>
</tr>
<tr>
<td>18F (G1/8) (FEMALE)</td>
<td>9.9</td>
<td>6.4</td>
<td>14.2</td>
<td></td>
</tr>
</tbody>
</table>

"M" = MATERIAL

Vitron Hi-Temp Applications where silicon is not allowed
Silicon Extremely hot or cold environments
Nitrile General Purpose

Applications:
- Angled/curved/bumpy surfaces.
- Best performance on dry surfaces.
- Higher compression distance.
  (Reach in Box)
- Bellows allow for minor misalignments.
- Provides Partial extraction.

Ordering Information

| Ø20mm | VC - BM20 "M" - "T" |
| Ø30mm | VC - BM30 "M" - "T" |
| Ø40mm | VC - BM40 "M" - "T" |
| Ø50mm | VC - BM50 "M" - "T" |

"M" = MATERIAL
"T" = THREAD

| Ø20mm | VC - BM20 | 20.1 [0.79] | 21.9 [.86] | 8.9 [.35] | 5.3 g [1.7 oz] | .68 kg [1.50 lb] |
| Ø30mm | VC - BM30 | 30.0 [1.18] | 30.7 [.121] | 10.7 [.42] | 10.3 g [.33 oz] | 1.64 kg [3.63 lb] |
| Ø40mm | VC - BM40 | 39.8 [1.57] | 40.9 [.161] | 12.9 [.43] | 19.6 g [.63 oz] | 2.21 kg [4.88 lb] |
| Ø50mm | VC - BM50 | 50.0 [1.97] | 51.1 [.201] | 23.1 [.91] | 32.7 g [1.05 oz] | 4.37 kg [9.63 lb] |

Only Available in Ø20mm
DE-STA-CO Part Lifting Magnets
Mag-Lift Magnets Features and Dimensions

Features:
• Provides instantaneous pick up and release without electricity.
• Maintains positive hold, even if air pressure is lost.
• Supplied with urethane pad which softens the impact of the magnet and avoids marring or damage to delicate surfaces.

Benefits:
• NPT mount allows retrofit to existing assemblies.

1.50” Diameter Mag-Lift Magnet

![1.50” Diameter Mag-Lift Magnet Image]

3.00” Diameter Mag-Lift Magnet

![3.00” Diameter Mag-Lift Magnet Image]
DE-STA-CO Part Lifting Magnets
Mag-Lift Magnets Capacity and Operating Principle

Specifications:
Recommended Operating Pressure: 2.4 bar [35 psi]
Port: 3/8” NPT
Compressed Air Port
Material: Machined, Anodized Aluminum, Urethane Pad (50 durometer - low skid)

Note: The minimum air pressure required for the Mag-Lift to release parts is 25 psi. The suggested air pressure for normal operation is 35 psi. If part do not release immediately, increase the air pressure in 5 psi increments until the part releases. Do not exceed 60 psi. Air pressure should be measured at the inlet of the Mag-Lift to ensure effective operation.

Mag-Lift Magnets Capacity

### 1.50” DIAMETER MAG-LIFT MAGNET - CPI-TPLP15RB - CAPACITIES

<table>
<thead>
<tr>
<th>GAGE OF STEEL (FERROUS ONLY)</th>
<th>28 GA (0.009”)</th>
<th>26 GA (0.018”)</th>
<th>22 GA (0.030”)</th>
<th>16 GA (0.050”)</th>
<th>12 GA (0.100”)</th>
<th>3/16” (0.187”)</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>WITH PAD</td>
<td>1.6 kg [3.5 lb]</td>
<td>2.0 kg [4.5 lb]</td>
<td>2.5 kg [5.5 lb]</td>
<td>2.3 kg [5.0 lb]</td>
<td>2.3 kg [5.0 lb]</td>
<td>2.0 kg [4.5 lb]</td>
<td>136g</td>
</tr>
<tr>
<td>WITHOUT PAD</td>
<td>2.5 kg [5.5 lb]</td>
<td>2.7 kg [6.0 lb]</td>
<td>3.6 kg [8.0 lb]</td>
<td>4.1 kg [9.0 lb]</td>
<td>4.1 kg [9.0 lb]</td>
<td>4.3 kg [9.5 lb]</td>
<td>136g</td>
</tr>
</tbody>
</table>

### 3.00” DIAMETER MAG-LIFT MAGNET - CPI-TPLP50373 - CAPACITIES

<table>
<thead>
<tr>
<th>GAGE OF STEEL (FERROUS ONLY)</th>
<th>28 GA (0.009”)</th>
<th>26 GA (0.018”)</th>
<th>22 GA (0.030”)</th>
<th>16 GA (0.050”)</th>
<th>12 GA (0.100”)</th>
<th>3/16” (0.187”)</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>WITH PAD</td>
<td>1.6 kg [3.5 lb]</td>
<td>3.4 kg [7.5 lb]</td>
<td>5.4 kg [12.0 lb]</td>
<td>5.4 kg [12.0 lb]</td>
<td>5.7 kg [12.5 lb]</td>
<td>5.7 kg [12.5 lb]</td>
<td>363g</td>
</tr>
<tr>
<td>WITHOUT PAD</td>
<td>2.5 kg [5.5 lb]</td>
<td>5.4 kg [12.0 lb]</td>
<td>8.8 kg [19.5 lb]</td>
<td>15.4 kg [34.0 lb]</td>
<td>16.1 kg [35.5 lb]</td>
<td>16.1 kg [35.5 lb]</td>
<td>363g</td>
</tr>
</tbody>
</table>

Note: Capacity values are stated at approximately 30% of the maximum holding value. Use this value for determining the quantity of Mag-Lift magnets required for an application.
Venturi and Spring Cup Mounts
Features and Specifications

The ARV Series
Auto-Release Venturi Cup Mount
Requiring (1) air line, (1) valve:
Offers integrated automatic quick panel release and exhaust silencer in one part. Mounting options include right or left hand apple core mounting or no apple core mount for use with DE-STA-CO’s spring cup mounts. The ARV Series is also available in a block style for remote mounting and each mount can be ordered with Imperial or Metric ports.

The VSA Series Venturi Cup Mount
Can be ordered with or without blow-off. Blow-off typically requires two air lines and multiple valves. The VSA series offers a low-profile version as shown. Additional options includes silencer and sensor port options. Mounting threads can also be ordered in Imperial or Metric ports.

DE-STA-CO also offers PA Series cup mounts

Spring-Loaded Cup Mounts
Available both as a standard version and extended travel version. Both versions offer several mounting options and three different travel lengths.

DE-STA-CO spring-loaded cup mounts are designed to be used with ARV and VSA 000 series venturi vacuum generator cup mount and complete line of vacuum cups to offer a total vacuum system solution.

Venturi Cup Mount Specifications

ARV Series Vacuum Generators:
Specifications @ 4 bar [60psi]:
Speed to Vacuum: 0.2-0.3 seconds
Speed to Release: 0.02 seconds
Air Consumption:
Vacuum: 40 l/m [1.4 scfm]
Blow-off: 0
Noise Level (At one meter): 68dBA
Material: Aluminum

VSA Series Vacuum Generators:
Specifications @ 4 bar [60psi]:
Speed to Vacuum: .36 seconds
Speed to Release: 0.08 seconds
Air Consumption:
Vacuum: 40 l/m [1.4 scfm]
Blow-off: 2.6 liters [0.09 ft³]
(156 l/m [5.5scfm] @ 1 sec. duration)
Noise Level (At one meter):
Inline to exhaust: 76dBA
Inline to exhaust with Silencer: 68dBA
Material: Aluminum

ARV and VSA Performance:

Supply Pressure (bar [psi])

Vacuum Level (bar [in. Hg])

-94 -91 -88 -85 -82 -79 -76 -73
3.4 3.8 4.1 4.5 4.8 5.2 5.5
[28] [27] [26] [25] [24] [23] [22]

US PAT No: 7,540,309
Venturi Style Vacuum Generator Cup Mounts

Auto-Release-Venturi Vacuum Generator

Left Hand Apple Core
CPI-VSA-ARVL-750-(X)

Right Hand Apple Core
CPI-VSA-ARVR-750-(X)

Without Apple Core
CPI-VSA-ARVR-000-(X)

RH/LH Spherical Ball
CPI-VSA-ARV(R/L)-B112-(X)

“VS” OPTION (M5 PORT/PLUG)
(REMOVE INCLUDED PLUG FOR VACUUM SENSOR)

U38 = 3/8 NPT
G38 = G3/8 BSPP
FOR VACUUM CUP

US PAT No: 7,540,309

Block Style
CPI-VSA-ARV-312-(X)
(X)=Vacuum Port Thread
U38 = 3/8” NPT Thread
G38 = 3/8” G Metric

US PAT No: 7,540,309

SCARA Block Style
CPI-VSA-ARVS-5-U18
Also compatible with Robohand DIRECT CONNECT

US PAT No: 7,540,309

Patent Pending

WEIGHT
114 g [4 oz.]
## Venturi Style Vacuum Generator Cup Mounts

**Low-Profile 750/19 Series Apple-Core Mounting with Blow-Off**

### Features:
- Low profile construction.
- Integrated blow-off.
- Optional vacuum sensing port.
- Optional exhaust silencer.
- Imperial or Metric ports.

### Benefits:
- Lower tool profile to fit in smaller spaces.
- Quick release of panels.
- Vacuum level or part present sensing.
- Quiet operation.

### Specifications:

<table>
<thead>
<tr>
<th>Metric</th>
<th>Imperial</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8” G Male</td>
<td>1/4” G</td>
</tr>
<tr>
<td>3/8” NPT Male</td>
<td>1/4” NPT</td>
</tr>
</tbody>
</table>

### Dimensions:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Metric</th>
<th>Imperial</th>
</tr>
</thead>
<tbody>
<tr>
<td>M Mount Thread</td>
<td>65.1</td>
<td>2.56</td>
</tr>
<tr>
<td>V Vacuum Port</td>
<td>41.4</td>
<td>1.63</td>
</tr>
<tr>
<td>VS/DET Sensor Port</td>
<td>29.2</td>
<td>1.15</td>
</tr>
</tbody>
</table>

### Weights:
- 170g (6 oz.)

---

### Version Options:
- **CPI-VSA-(X)-BO-LP**
- **CPI-VSA-(X)-BO-LP-DET**
- **CPI-VSA-(X)-BO-LP-VS**
- **CPI-VSA-(X)-BO-LP-VS-ST2**

---

### Notes:
- For Silencer Option; add “ST2” to the end of order code (as shown).

---

**VS/DET Thread**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DET = M5</td>
<td></td>
</tr>
<tr>
<td>VS = 1/8 NPT</td>
<td></td>
</tr>
</tbody>
</table>

---

Subject to Technical Modifications Without Notice
Venturi Style Vacuum Generator Cup Mounts
750/19 Series Apple-Core Mounting with Blow Off

Features:
- Standard venturi/blow-off.
- Optional vacuum sensing port.

Benefits:
- Vacuum lever or part present sensing.
- Quiet operation.

750/19 Series w/Blow Off
No Options
CPI-VSA-(X)-BO

750/19 Series w/Blow Off
with Detector Option
CPI-VSA-(X)-BO-DET

750/19 Series w/Blow Off
with “VS” Option
CPI-VSA-(X)-BO-VS

Benefits:
- Vacuum lever or part present sensing.
- Quiet operation.

VS/DET THREAD
DET = M5
VS = 1/8 NPT

WEIGHT
170g [6 oz.]

1/8" NPT BLOW-OFF PORT

"M" MOUNTING THREAD

1/8" NPT INTERNAL THREAD

OPTIONAL VACUUM SENSOR PORT "VS"

1/8" NPT BLOW-OFF PORT

"V" VACUUM PORT

"M" MOUNTING THREAD

750/19 SERIES VENTURI WITH BLOW OFF - CPI-VSA-(X)-BO

<table>
<thead>
<tr>
<th>VERSION</th>
<th>Mount Thread “M”</th>
<th>Vacuum Port “V”</th>
<th>(X)</th>
</tr>
</thead>
<tbody>
<tr>
<td>METRIC</td>
<td>3/8” G Male</td>
<td>1/4” G</td>
<td>19</td>
</tr>
<tr>
<td>IMPERIAL</td>
<td>3/8” NPT Male</td>
<td>1/4” NPT</td>
<td>750</td>
</tr>
</tbody>
</table>
Venturi Style Vacuum Generator Cup Mounts
750/19 Series Apple-Core Mounting

Features:
- Simple single line operation.
- Optional vacuum sensing port.
- Optional exhaust silencer.
- Imperial or Metric ports.

Benefits:
- Simple valving and plumbing.
- Vacuum level or part present sensing.
- Quiet operation.

750/19 Series with No Options
CPI-VSA-(X)

750/19 Series with Detector Option
CPI-VSA-(X)-DET

750/19 Series with “VS” Option
CPI-VSA-(X)-VS

For Silencer Option;
add “ST2” to the end of order code (as shown).
CPI-VSA-(X)-VS-ST2

DET/VS THREAD
DET = M5
VS = 1/8 NPT

WEIGHT
85g [3 oz.]

750/19 SERIES VENTURI CPI-VSA-(X)

<table>
<thead>
<tr>
<th>VERSION</th>
<th>Mount Thread “M”</th>
<th>Vacuum Port “V”</th>
<th>(X)</th>
</tr>
</thead>
<tbody>
<tr>
<td>METRIC</td>
<td>3/8” G Male</td>
<td>1/4” G</td>
<td>19</td>
</tr>
<tr>
<td>IMPERIAL</td>
<td>3/8” NPT Male</td>
<td>1/4” NPT</td>
<td>750</td>
</tr>
</tbody>
</table>
Venturi Style Vacuum Generator Cup Mounts
500 Series MicroTool Apple Core

Features:
- MicroTool sized venturi.
- 1/8 NPT/1/8 G Ports.

Benefits:
- Small and lightweight.
- Convenient mounts for most small vacuum cups.

DESCRIPTION
Port “A”

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Female 1/8” NPT to Female 1/8” NPT</td>
<td>F18</td>
</tr>
<tr>
<td>Female 1/8” NPT to Male 1/8” NPT</td>
<td>M18</td>
</tr>
</tbody>
</table>
Venturi Style Vacuum Generator Cup Mounts
6/8/312 Series Block Style Venturi with Remote Mounting

Features:
- Block style venturi for remote vacuum applications.
- Tapped holes for bracket mounting.
- Imperial or Metric ports.

Benefits:
- Simple valving and plumbing.
- Remote mount vacuum source.
- Quiet operation.

### BLOCK STYLE VENTURI

<table>
<thead>
<tr>
<th>MODEL</th>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
<th>&quot;C&quot;</th>
<th>&quot;D&quot;</th>
<th>&quot;E&quot;</th>
<th>&quot;F&quot;</th>
<th>&quot;G&quot;</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 Series</td>
<td>25.4 [1.00]</td>
<td>15.9 [0.63]</td>
<td>31.8 [1.25]</td>
<td>6.4 [0.25]</td>
<td>6.4 [0.25]</td>
<td>44.5 [1.75]</td>
<td>M6 X 1.0</td>
<td>48g [1.7 oz]</td>
</tr>
<tr>
<td>8/312 Series</td>
<td>31.8 [1.25]</td>
<td>25.4 [1.0]</td>
<td>34.9 [1.38]</td>
<td>12.7 [0.50]</td>
<td>8.0 [0.31]</td>
<td>63.5 [2.50]</td>
<td>M8 X 1.25</td>
<td>170g [6 oz]</td>
</tr>
</tbody>
</table>

For Silencer Option; add “ST2” to the end of order code (as shown).

CPI-VSA-(X)-ST2

**Benefits:**
- Simple valving and plumbing.
- Remote mount vacuum source.
- Quiet operation.

**Features:**
- Block style venturi for remote vacuum applications.
- Tapped holes for bracket mounting.
- Imperial or Metric ports.
Venturi Style Vacuum Generator Cup Mounts
8/312 Series Block Style Venturi with Remote Mounting and Blow Off

**Features:**
- Block style venturi for remote vacuum applications.
- Integrated blow off.

**Benefits:**
- Remote mount vacuum source.
- Quick panel release.
- Quiet operation.

**312/8 SERIES BLOCK STYLE VENTURI WITH BLOW OFF - CPI-VSA-(X)-BO**

<table>
<thead>
<tr>
<th>Version</th>
<th>Mount Thread “M”</th>
<th>Vacuum Port “V”</th>
<th>(X)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric</td>
<td>3/8” G Female</td>
<td>1/4” G</td>
<td>8</td>
</tr>
<tr>
<td>Imperial</td>
<td>3/8” NPT Female</td>
<td>1/4” NPT</td>
<td>312</td>
</tr>
</tbody>
</table>

**Weight:**
198g [7 oz.]

Subject to Technical Modifications Without Notice
Port Only Adaptor Cup Mounts
750/19 Series Apple Core Port Adaptor

Features:
- Cup mount for remote vacuum source.
- Imperial or Metric ports.

Benefits:
- Mounts cup to swivel arm for easy adjustment.

Benefits:
- Mounts cup to swivel arm for easy adjustment.

WEIGHT
85g [3 oz.]

PORT ONLY ADAPTOR - CPI-PA-(X)

<table>
<thead>
<tr>
<th>Version</th>
<th>Mount Thread “M”</th>
<th>Vacuum Port “V”</th>
<th>(X)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric</td>
<td>3/8” G Male</td>
<td>1/4” G</td>
<td>19</td>
</tr>
<tr>
<td>Imperial</td>
<td>3/8” NPT Male</td>
<td>1/4” NPT</td>
<td>750</td>
</tr>
</tbody>
</table>
## Port Only Adaptor Cup Mounts

### 500 Series MicroTool Apple Core Port Adaptor

**Port Only Adaptor Cup Mounts**

**Description**

<table>
<thead>
<tr>
<th>Description</th>
<th>Port &quot;A&quot;</th>
<th>Port &quot;B&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female 1/8&quot; NPT to Female 1/8&quot; NPT</td>
<td>F18</td>
<td>F18</td>
</tr>
<tr>
<td>Female 1/8&quot; G to Female 1/8&quot; G</td>
<td>FG18</td>
<td>FG18</td>
</tr>
<tr>
<td>Female M5 to Female M5</td>
<td>FM5</td>
<td>FM5</td>
</tr>
<tr>
<td>Female 1/8&quot; NPT to Male 1/8&quot; NPT</td>
<td>F18</td>
<td>M18</td>
</tr>
<tr>
<td>Female 1/8&quot; G to Male 1/8&quot; G</td>
<td>FG18</td>
<td>MG18</td>
</tr>
<tr>
<td>Female M5 to Male M5</td>
<td>FM5</td>
<td>MM5</td>
</tr>
</tbody>
</table>

**WEIGHT**

- 23 g [0.8 oz.]

**1/8 NPT Vacuum Extension**

**Model Number**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Weight</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPI-PAT-50T-&quot;L&quot;-U18</td>
<td>[0.13 lb/ft] 193.0 g/m</td>
<td>1/8 NPT Tap (both sides)</td>
</tr>
</tbody>
</table>

---

Subject to Technical Modifications Without Notice
Venturi Style Vacuum Generator Cup Mounts
Low-Profile 000 Series with Blow-Off for Mounting to Spring-Loaded Products

**Features:**
- Low profile construction.
- Integrated blow-off.
- Optional vacuum sensing port.
- Optional exhaust silencer.
- Imperial or Metric ports.

**Benefits:**
- Lower tool profile to fit in smaller spaces.
- Quick release of panels.
- Vacuum level or part present sensing.
- Quiet operation.

**Low-Profile 000 w/Blow Off No Options**
CPI-VSA-000-BO-LP-(X)*

**Low-Profile 000 with Blow Off with Detector Option**
CPI-VSA-000-BO-LP-(X)*-DET

**Low-Profile 000 with Blow Off with “VS” Option**
CPI-VSA-000-BO-LP-(X)*-VS

To add Silencer Option add “ST2” to the end.
CPI-VSA-000-BO-LP-VS-ST2

**DET/VS THREAD**
- DET = M5
- VS = 1/8 NPT

**WEIGHT**
142g [5 oz.]

(X)=Optional Mounting Thread
*disregard when using standard 3/8" NPT mounting.

G38 = 3/8" G Metric
U14 = 1/4" NPT Imperial
G14 = 1/4" G Metric
Venturi Style Vacuum Generator Cup Mounts
000 Series with Blow-Off for Mounting to Spring-Loaded Products

**Features:**
- Standard venturi/blow-off.
- Optional vacuum sensing port.

**Benefits:**
- Vacuum level or part present sensing.
- Quiet operation.

Low-Profile 000 w/Blow Off No Options
CPI-VSA-000-BO-(X)*

Low-Profile 000 with Blow Off with Detector Option
CPI-VSA-000-BO-(X)*-DET

Low-Profile 000 with Blow Off with “VS” Option
CPI-VSA-000-BO-(X)*-VS

**DET/VS THREAD**
- DET = M5
- VS = 1/8 NPT

**WEIGHT**
- 142g [5 oz.]

(X) = Optional Mounting Thread
*Disregard when using standard 3/8” NPT mounting.

G38 = 3/8” G Metric
U14 = 1/4” NPT Imperial
G14 = 1/4” G Metric

**Dimensions:**
- 1/8” NPT MOUNTING THREAD
- 3/8” NPT STD MOUNTING THREAD
- 1/4” NPT PORT
- 1/8” NPT BLOW-OFF PORT

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33
Vacuum Switch
Micro Connector Vacuum Switch

Features:
• Provides a cost-effective alternative to 24VDC proximity switch.
• SPDT switch allows part/no part status.
• Non-adjustable switch set point eliminates false signals.

Specifications:
Switch Set Point:
18 in/HG, Non-Adjustable
Electrical Specifications:
3 amps, 250 volts DC
4 Pin Micro Euro Connector
Weight: 198g [7 oz.]

3-Pin Micro Connector Vacuum Switch
CPI-VS-VM17-3MC-G18B

To order with Low-Profile Venturi Vacuum Cup Mount with Blow-Off, Vacuum Switch and Silencer options as shown above.
CPI-VSA-750-BO-LP-VSS-ST2

4-Pin Euro Micro Connector Vacuum Switch
CPI-VS-VM-2C-18

1) COMMON
2) NORMALLY CLOSED
3) NOT USED
4) NORMALLY OPEN
Spring-Loaded Cup Mounts
Bulk Head Style Micro Series Level Compensators

Specifications:
Material: Aluminum

Features:
- M5 or G mounting threads and vacuum ports.

0.30” TRAVEL
ORDERING INFORMATION
CPI-LC10

- M5 (10-32) FEMALE THREAD
- G1/8 BSPP
- WEIGHT: 5.7 g [0.2 oz.]

0.75” TRAVEL
ORDERING INFORMATION
CPI-LC18

- G1/8 NPS FEMALE THREAD
- M16 X 1
- WEIGHT: 28.3 g [1.0 oz.]

CPI-LCM-10-“D”

- WEIGHT: 23 g [0.8 oz.]

“D” = (Ø) Diameter
16 = Ø16mm [.63”]
10 = Ø10mm [.39”]

WEIGHT

5.7 g [0.2 oz.]
Spring-Loaded Cup Mounts
Bulkhead Style Standard Travel Spring-Loaded Cup Mount

**Features:**
- Available in three different travel lengths.
- NPT or G mounting threads and vacuum ports.

**Specifications:**
- **Material:** Aluminum

---

**0.75” TRAVEL**
**ORDERING INFORMATION**

- **CPI-RCM-30**
  - “F” FEMALE MOUNT THREAD
  - [1.50] 38.1
  - [1.12] 28.5
  - 1 1/8 -12 FINE
  - [0.75] 19.1
  - [3.47] 88.1
  - (TRAVEL)
  - [1.13] 28.7
  - [1.25] 31.8
  - [0.94] 23.9

**1.50” TRAVEL**
**ORDERING INFORMATION**

- **CPI-RCM-150-U14-NR**
  - “M” MALE MOUNT THREAD
  - [1.50] 38.1
  - [1.50] 38.1
  - (TRAVEL)
  - [5.74] 145.8
  - [5.03] 127.7

**3.00” TRAVEL**
**ORDERING INFORMATION**

- **CPI-RCM-300-U14-NR**
  - [9.74] 247.4
  - [3.00] 76.2
  - (TRAVEL)

---

**BULKHEAD MOUNT - CPI-RCM-XXX**

<table>
<thead>
<tr>
<th>VERSION</th>
<th>Mount Thread “M”</th>
<th>Vacuum Port “F”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imperial</td>
<td>3/8” NPT Female</td>
<td>1/4” NPT</td>
</tr>
</tbody>
</table>

Additional smaller sized spring-loaded cup Mount available upon request.
Please contact DE-STA-CO Customer Service for more information.

**WEIGHT**

- .75” Travel = 142g [5 oz]
- 1.50” Travel = 227g [8 oz]
- 3.00” Travel = 340g [12 oz]
Spring-Loaded Cup Mounts

Apple-Core Style Standard Travel Spring-Loaded Cup Mount

Specifications:
- Material: Aluminum
- Urethane Bumper used on 1.50”/40mm and 3.00”/75mm travel.

Features:
- Available in three different travel lengths.
- Apple core .75” [19mm] mounting for adjustment along on axis.
- NPT or G mounting threads and vacuum ports.

0.75”/19MM TRAVEL
ORDERING INFORMATION
CPI-SCM-075-(X)-NR (ENGLISH)
CPI-SCM-19-(X)-NR (METRIC)

1.50”/40MM TRAVEL
ORDERING INFORMATION
CPI-SCM-150-(X)-NR (ENGLISH)
CPI-SCM-40-(X)-NR (METRIC)

3.00”/75MM TRAVEL
ORDERING INFORMATION
CPI-SCM-300-(X)-NR (ENGLISH)
CPI-SCM-75-(X)-NR (METRIC)

WEIGHT
- .75”/19mm Travel = 142g [5 oz]
- 1.50”/40mm Travel = 227g [8 oz]
- 3.00”/75mm Travel = 340g [12 oz]

ORDERING INFORMATION
- (NR = NON ROTATING)

“TWB” OPTION

“M” MALE MOUNT THREAD

FEMALE MOUNT THREAD

M” MALE MOUNT THREAD

Urethane Bumper

TRAVEL

WEIGHT

CPI-SCM-(19/075)-(X)-NR
Version “M” “F” (X)
Metric 3/8” G 1/4” G G14
Imperial 3/8” NPT 1/4” NPT U14

CPI-SCM-(40/150 & 75/300)-(X)-NR
Version “M” “F” (X)
Metric 3/8” G 3/8” G G14
Imperial 3/8” NPT 3/8” NPT U14

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Subject to Technical Modifications Without Notice
Spring-Loaded Cup Mounts
Locating Pins for Standard Travel Spring-Loaded Cup Mount

Features:
- Available in four diameters and pin heights.
- Mounts to standard spring cup mounts.

Specifications:
- Material: Hardened Steel

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Pin Height</th>
<th>Mounting Diameter</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø1.00&quot;</td>
<td>[1.00]</td>
<td>Ø25.4</td>
<td>CPI-ULP-100-125</td>
</tr>
<tr>
<td>Ø0.75&quot;</td>
<td>[0.75]</td>
<td>Ø19.1</td>
<td>CPI-ULP-75-112</td>
</tr>
<tr>
<td>Ø0.62&quot;</td>
<td>[0.62]</td>
<td>Ø15.8</td>
<td>CPI-ULP-62-100</td>
</tr>
<tr>
<td>Ø0.50&quot;</td>
<td>[0.50]</td>
<td>Ø12.7</td>
<td>CPI-ULP-50-75</td>
</tr>
</tbody>
</table>

Subject to Technical Modifications Without Notice
Spring-Loaded Cup Mounts

Spring Loaded Locating Pins Travel and Ordering Information

**Specifications:**
- **Material:** Hardened Steel (Pins)

**Features:**
- Locating pins mounted to Standard Spring-Loaded Cup Mounts with 0.75” and 3.00” Travel.

---

### STANDARD APPLE CORE SPRING CUP MOUNT

- **0.75” Travel with:**
  - Ø1.00” Locating Pin
    - CPI-SCM-075-100-LP
  - Ø0.75” Locating Pin
    - CPI-SCM-075-75-LP
  - Ø0.62” Locating Pin
    - CPI-SCM-075-62-LP
  - Ø0.50” Locating Pin
    - CPI-SCM-075-50-LP

---

### 0.75” TRAVEL LOCATING PINS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPI-SCM-075-100-LP</td>
<td>89</td>
<td>112.6</td>
</tr>
<tr>
<td></td>
<td>[3.50]</td>
<td>[4.43]</td>
</tr>
<tr>
<td>CPI-SCM-075-75-LP</td>
<td>91.6</td>
<td>115.3</td>
</tr>
<tr>
<td></td>
<td>[3.61]</td>
<td>[4.54]</td>
</tr>
<tr>
<td>CPI-SCM-075-62-LP</td>
<td>94.5</td>
<td>118.1</td>
</tr>
<tr>
<td></td>
<td>[3.72]</td>
<td>[4.65]</td>
</tr>
<tr>
<td>CPI-SCM-075-50-LP</td>
<td>100.4</td>
<td>124.0</td>
</tr>
<tr>
<td></td>
<td>[3.95]</td>
<td>[4.88]</td>
</tr>
</tbody>
</table>

---

### STANDARD APPLE CORE SPRING CUP MOUNT

- **3.00” Travel with:**
  - Ø1.00” Locating Pin
    - CPI-SCM-300-100-LP
  - Ø0.75” Locating Pin
    - CPI-SCM-300-75-LP
  - Ø0.62” Locating Pin
    - CPI-SCM-300-62-LP
  - Ø0.50” Locating Pin
    - CPI-SCM-300-50-LP

---

### 3.00” TRAVEL LOCATING PINS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPI-SCM-300-100-LP</td>
<td>157.5</td>
<td>283.3</td>
</tr>
<tr>
<td></td>
<td>[6.20]</td>
<td>[11.15]</td>
</tr>
<tr>
<td>CPI-SCM-300-75-LP</td>
<td>151.7</td>
<td>277.4</td>
</tr>
<tr>
<td></td>
<td>[5.97]</td>
<td>[10.92]</td>
</tr>
<tr>
<td>CPI-SCM-300-62-LP</td>
<td>148.8</td>
<td>274.5</td>
</tr>
<tr>
<td></td>
<td>[5.86]</td>
<td>[10.81]</td>
</tr>
<tr>
<td>CPI-SCM-300-50-LP</td>
<td>146.1</td>
<td>271.9</td>
</tr>
<tr>
<td></td>
<td>[5.75]</td>
<td>[10.70]</td>
</tr>
</tbody>
</table>
Spring-Loaded Cup Mounts
Extended Travel Spring-Loaded Cup Mounts - Features, Benefits and Options

Features:
- Four mounting options.
- Three travel lengths.
- NPT or G mounting threads and vacuum ports.
- Urethane shock absorber.
- Teflon coated shaft.
- Fully modular construction.

Benefits:
- Urethane shock absorber reduces “pick-up” shock.
- Extensive use of polymers reduce weight and cost.
- Extended travel cup mounts can be reconfigured or rebuilt.
- Smooth operation, reduced wear.

Ø0.75” Apple Core Mount
CPI-SCM(A)-“T”

Ø1.00”/25MM Extension Mount
CPI-SCM(10/25)-“T”

Ø1.25” Bulkhead Mount
CPI-SCM(B)-“T”

Ø1.50”/40MM Tube Mount
CPI-SCM(C)-“D”-“T”-“O”

Travel Length for SCM(A,B,C,10/25)
CPI-SCM(X)-“T”

- Travel “T” 200E/050M
- Travel “T” 400E/100M
- Travel “T” 600E/150M
Spring-Loaded Cup Mounts
Extended Travel Spring-Loaded Cup Mounts

EXTENDED TRAVEL SPRING-LOADED CUP MOUNTS - CPI-SCM(X)-“T”

<table>
<thead>
<tr>
<th>VERSION</th>
<th>TRAVEL “T”</th>
<th>“L”</th>
<th>“M”</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPERIAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>200E</td>
<td>(2.00” Vertical Travel)</td>
<td>187.3 [7.38]</td>
<td>3/8” NPT</td>
<td>.48kg [1.06 lb]</td>
</tr>
<tr>
<td>400E</td>
<td>(4.00” Vertical Travel)</td>
<td>238.2 [9.38]</td>
<td>3/8” NPT</td>
<td>.53kg [1.16 lb]</td>
</tr>
<tr>
<td>600E</td>
<td>(6.00” Vertical Travel)</td>
<td>288.9 [11.38]</td>
<td>3/8” NPT</td>
<td>.58kg [1.27 lb]</td>
</tr>
<tr>
<td>METRIC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>050M</td>
<td>(50mm Vertical Travel)</td>
<td>187.3 [7.38]</td>
<td>3/8” G</td>
<td>.48kg [1.06 lb]</td>
</tr>
<tr>
<td>100M</td>
<td>(100mm Vertical Travel)</td>
<td>238.2 [9.38]</td>
<td>3/8” G</td>
<td>.53kg [1.16 lb]</td>
</tr>
<tr>
<td>150M</td>
<td>(50mm Vertical Travel)</td>
<td>288.9 [11.38]</td>
<td>3/8” G</td>
<td>.58kg [1.27 lb]</td>
</tr>
</tbody>
</table>
Spring-Loaded Cup Mounts
Tube Mounted Extended Travel Spring-Loaded Cup Mounts

"M" FEMALE MOUNTING THREAD

M8 FASTENERS (4)

MOUNTING TUBE DIA. "D"

"M" MALE MOUNTING THREAD

SCMC MOUNTING ORIENTATION (SHOWN)
"O" = A (RAISED POSITION)

SCMC MOUNTING ORIENTATION (SHOWN)
"O" = B (LOWERED POSITION)

MOUNTING THREAD

CERTIFIED VACUUM SYSTEMS

TUBE MOUNTED EXTENDED TRAVEL SPRING-LOADED CUP MOUNTS - CPI-SCMC-"D"-"T"-"O"

<table>
<thead>
<tr>
<th>VERSION</th>
<th>TRAVEL &quot;T&quot;</th>
<th>&quot;L&quot;</th>
<th>&quot;M&quot;</th>
<th>&quot;D&quot;</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPERIAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>200E (2.00&quot; Vertical Travel)</td>
<td>187.3 [7.38]</td>
<td>3/8&quot; NPT</td>
<td>150 (Ø1.50&quot;)</td>
<td>.85kg [1.87 lb]</td>
<td></td>
</tr>
<tr>
<td>400E (4.00&quot; Vertical Travel)</td>
<td>238.2 [9.38]</td>
<td>3/8&quot; NPT</td>
<td>150 (Ø1.50&quot;)</td>
<td>.90kg [1.97 lb]</td>
<td></td>
</tr>
<tr>
<td>600E (6.00&quot; Vertical Travel)</td>
<td>288.9 [11.38]</td>
<td>3/8&quot; NPT</td>
<td>150 (Ø1.50&quot;)</td>
<td>.94kg [2.08 lb]</td>
<td></td>
</tr>
<tr>
<td>METRIC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>050M (50mm Vertical Travel)</td>
<td>187.3 [7.38]</td>
<td>3/8&quot; G</td>
<td>40M (Ø40mm)</td>
<td>.85kg [1.87 lb]</td>
<td></td>
</tr>
<tr>
<td>100M (100mm Vertical Travel)</td>
<td>238.2 [9.38]</td>
<td>3/8&quot; G</td>
<td>40M (Ø40mm)</td>
<td>.90kg [1.97 lb]</td>
<td></td>
</tr>
<tr>
<td>150M (50mm Vertical Travel)</td>
<td>288.9 [11.38]</td>
<td>3/8&quot; G</td>
<td>40M (Ø40mm)</td>
<td>.94kg [2.08 lb]</td>
<td></td>
</tr>
</tbody>
</table>
Spring-Loaded Cup Mounts
Extended Travel Spring-Loaded Cup Mount Proximity Switch Mounts

Specifications:
Material: Aluminum

Features:
• Mounts 30mm barrel style and 50mm square style proximity switches to the extended travel spring-loaded cup mounts.

30mm Barrel Style Proximity Mount

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPI-SAP-30-PM-150</td>
<td>.13 kg [.29 lb]</td>
</tr>
</tbody>
</table>

50mm Square Style Proximity Mount

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPI-SAP-NI50-PM-150</td>
<td>.23 kg [.56 lb]</td>
</tr>
</tbody>
</table>

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Manifolds
Boom Mounted Single 4-Port Manifold - 30° Angled Input Port

Features:
• 30° Angled input port.
• Provides a 4-port air distribution system mount on the boom.

Specifications:
Material: Aluminum

<table>
<thead>
<tr>
<th>Model</th>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
<th>&quot;C&quot;</th>
<th>&quot;D&quot;</th>
<th>&quot;E&quot;</th>
<th>&quot;G&quot;</th>
<th>&quot;H&quot;</th>
<th>&quot;T&quot;</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPI-MLK-60-G44-30</td>
<td>108</td>
<td>87.9</td>
<td>60.3</td>
<td>73</td>
<td>88.9</td>
<td>3/8 G</td>
<td>1/4 G</td>
<td>Ø60MM</td>
<td>340g</td>
</tr>
<tr>
<td>[CPI-MBC-250-4-4-30]</td>
<td>[4.25]</td>
<td>[3.46]</td>
<td>[2.38]</td>
<td>[2.88]</td>
<td>[3.50]</td>
<td>[3/8 NPT]</td>
<td>[1/4 NPT]</td>
<td>Ø2.50&quot;</td>
<td>[12 oz]</td>
</tr>
</tbody>
</table>

BOOM MOUNTED SINGLE 4-PORT MANIFOLD WITH 30° ANGLED INPUT PORT
**Features:**
- Provides a 4-port air distribution system mount on the boom.
- Available in two sizes to allow clamping to Ø40mm [Ø1.50”] and Ø60mm [Ø2.50”] materials.

**Specifications:**
- Material: Aluminum

**BOOM MOUNTED SINGLE 4-PORT MANIFOLD**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CPI-MLK-40-G44</td>
<td>88.9</td>
<td>64.3</td>
<td>52.5</td>
<td>48.5</td>
<td>36.7</td>
<td>64.3</td>
<td>12.9</td>
<td>114.5</td>
<td>Ø40MM</td>
<td>283g [10 oz]</td>
</tr>
<tr>
<td>[CPI-MBC-150-4-4]</td>
<td>[3.50]</td>
<td>[2.53]</td>
<td>[2.07]</td>
<td>[1.91]</td>
<td>[2.53]</td>
<td>[1.51]</td>
<td>[4.51]</td>
<td>[1.50”]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPI-MLK-60-G44</td>
<td>104.1</td>
<td>87.9</td>
<td>58.4</td>
<td>73</td>
<td>42.5</td>
<td>88.9</td>
<td>39.7</td>
<td>118.4</td>
<td>Ø60MM</td>
<td>340g [12 oz]</td>
</tr>
<tr>
<td>[CPI-MBC-250-4-4]</td>
<td>[4.10]</td>
<td>[3.46]</td>
<td>[2.30]</td>
<td>[2.88]</td>
<td>[1.67]</td>
<td>[3.50]</td>
<td>[1.56]</td>
<td>[4.65]</td>
<td>[2.50”]</td>
<td></td>
</tr>
</tbody>
</table>
Manifolds

Boom Mounted Double 8-Port Manifold

Features:
- Provides an 8-port (4 ports on top and bottom) air distribution system mount on the boom.
- Available in two sizes to allow clamping to Ø40mm [Ø150"] and Ø60mm [Ø250"] materials.

Specifications:
- Material: Aluminum

BOOM MOUNTED SINGLE 8-PORT MANIFOLD

<table>
<thead>
<tr>
<th>MODEL</th>
<th>“A”</th>
<th>“B”</th>
<th>“C”</th>
<th>“D”</th>
<th>“E”</th>
<th>“G”</th>
<th>“H”</th>
<th>“T”</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPI-MLK-40-G88</td>
<td>105.1</td>
<td>64.3</td>
<td>52.5</td>
<td>48.5</td>
<td>36.8</td>
<td>3/8 G</td>
<td>1/4 G</td>
<td>Ø40MM</td>
<td>425g [16 oz]</td>
</tr>
<tr>
<td>CPI-MBC-150-8-8</td>
<td>105.1</td>
<td>64.3</td>
<td>52.5</td>
<td>48.5</td>
<td>36.8</td>
<td>3/8 G</td>
<td>1/4 G</td>
<td>Ø1.50”</td>
<td></td>
</tr>
<tr>
<td>CPI-MLK-60-G88</td>
<td>117.6</td>
<td>87.9</td>
<td>58.8</td>
<td>73.0</td>
<td>42.9</td>
<td>3/8 G</td>
<td>1/4 G</td>
<td>Ø60MM</td>
<td>510g [18 oz]</td>
</tr>
<tr>
<td>CPI-MBC-250-8-8</td>
<td>117.6</td>
<td>87.9</td>
<td>58.8</td>
<td>73.0</td>
<td>42.9</td>
<td>3/8 G</td>
<td>1/4 G</td>
<td>Ø2.50”</td>
<td></td>
</tr>
</tbody>
</table>
Manifolds

Boom Mounted Single 6-Port Manifold

Features:
- Provides a 6-port air distribution system mounted on the boom.
- Easy access.

Specifications:
- Material: Aluminum

Dimensions:
- M8 Fasteners
- 1/8" NPT Ports (Typ)
- Material: Aluminum

Product Numbers:
- CPI-MBC-250-3V1B-AB
- CPI-MBC-250-4V2B

Subject to Technical Modifications Without Notice
Manifolds
Block Style Manifold for Remote Mounting

MODEL NUMBER | WEIGHT
--- | ---
CPI-GDA-M24-3737 | .49kg [1.2 lb]

CPI-MMB-4V2B-LG | .65kg [1.4 lb]
**Block Style Manifold for Remote Mounting**

**MODEL NUMBER** | **WEIGHT**  
--- | ---  
CPI-MMB-8P | 0.67kg [1.5 lb]  
CPI-MMB-4P | 0.36kg [0.8 lb]
Manifolds
Block Style Manifold for Remote Mounting

**MODEL NUMBER** | **WEIGHT**
--- | ---
CPI-MMB-4VSP-AB | .55kg [1.2 lb]

**MODEL NUMBER** | **WEIGHT**
--- | ---
CPI-MMB-3V1B-AB | .50kg [1.1 lb]

Subject to Technical Modifications Without Notice
“Extend Arm” Swivel Arms are available in (3) standard lengths to offer (3) ranges of linear adjustability.

2.00” Linear Extension allows precise adjustment in restricted locations

Three-bolt adjustment system; (2) bolts for individual adjustment of each joint along with (1) bolt for linear Adjustment. Adjust a single point of axis while the other areas of adjustment remains secure.

Double-Hinge Design provides even clamping force to better hold mounting position. End opens to allow mounting in the center of tube/bar without removing existing components. These features reduce downtime for setup and adjustment.

Standard Swivel Arms offers a versatile attachment point for vacuum generators and adaptors, proximity switches and nest mounts brackets.

Single-Bolt adjustment for (3) axis
Standard Swivel Arms, as well as Single-Bolt Transition Swivel Arms, and Single End Extensions all share the convenient one-bolt design for quick setup, easy assembly and adjustment. Tool setup is therefore quick and easy, saving time and money.

360° of adjustment in (3) different axes
Easily locate cups on most panels. No special or expensive parts required.

"Extend Arm" Swivel Arms

2.00” Linear Extension

Three-bolt adjustment system

Double-Hinge Design

Standard Swivel Arms

Single-Bolt adjustment for (3) axis

360° of adjustment in (3) different axes
PRECISELY POSITIONING OUR CUSTOMERS FOR PRODUCTIVITY.

**Workholding**
- Widest variety of workholding products
- High durability and reliability
- Flexible solutions for all applications
- Custom products for unique requirements

**Automation**
- Broad range of engineered automation products
- Complementary products for modular integration
- Unmatched accuracy, reliability and performance
- Unparalleled global sales, service and engineering support

---

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