

# Vacuum Products

01/29/2025



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01/29/2025

This catalog is a custom document and the products included is based on your unique selection from portions of complete catalogs that already exist. Please refer to our full catalogs for more information on products not included in this customized document.

## Table of Contents

Vacuum Products

EE-VAC-1








# Vacuum Products

01/29/2025

## Table of Contents (continued)

# VACUUM SOLUTIONS

## Table of Contents

	Vaccum Cups .....	3
	Magnets.....	28
	EcoCup .....	29
	Vacuum Generation .....	31
	Spring Cup Mounts .....	37
	Double Blank Detector Mounts .....	46
	Manifolds.....	53

# VACUUM PRODUCTS

DESTACO vacuum cups can be ordered in different types, sizes, materials and durometers to be used in a broad array of applications, ranging from sheet metal handling to plastics to glass.



*DESTACO also provides vacuum cups for extreme temperatures and hot-forming applications*

**EcoCup™** is the world's first electric vacuum cup, creating vacuum without air. The EcoCup™ is ideal for pick-and-place applications of flat, rigid, non-porous parts, including plastic, glass, and other consumer goods with smooth, flat surfaces.



**ARV®**

**ARV®** The original, patented Auto-Release Venturi offers users the fastest vacuum and blow-off in the industry with single line operation, integrated blow-off and standard silencer.

**Destacker Double Blank Detectors (DBD)** allows compliance to blanks within  $\pm 15^\circ$  without needing to adjust the robot, automation or tooling.



# NITRILE VACUUM CUPS

Vacuum Products | 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 patented stress relief port.



## Round Traction Vacuum Cups

- For applications with slick/oily surfaces or for destackers.
- Internal cleats holds 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.



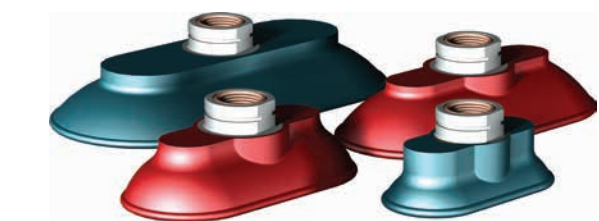
## Round Belcup Vacuum Cups

- 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.

# POLYURETHANE VACUUM CUPS

Vacuum Products | Families and Features



## Round Bellows Vacuum Cups

- For applications with slick/oily surfaces or for destackers
- Bellows add flexibility for minor misalignments
- Dual Durometer Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green)
- Optional TCT (Triple durometer) style cup offers extra soft internal cleat to eliminate possible dimples on thin sheet metal



## Round Flat Foot Vacuum Cups

- Works well on flat to slightly contoured parts
- Maximizes lifting capacity and minimizes slip
- Excellent for transverse loads with high acceleration and deceleration applications
- Dual Durometer Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green)



## Round Deepdish Vacuum Cups

- Interchangeable with existing/competitor vacuum cups
- New bell shape design is excellent for highly contoured surfaces
- Optional lightweight plastic mount available
- Designed to handle higher acceleration/deceleration speeds
- Shape and design offers better transverse loading



## Oval Bellows Vacuum Cups

- Works well on flat and contoured parts
- Maximum lifting capacity where limited space is available
- Bellows add flexibility for minor misalignments
- Dual Durometer Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green)











## Oval Flat Foot Vacuum Cups

- Works well on flat to slightly contoured parts.
- Long oval shape maximizes contact on narrow surfaces
- Cleats provide full support to prevent damage to thin outer panel
- Dual Durometer Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green)

# CHOOSE THE RIGHT VACUUM CUP FOR YOUR APPLICATION

Vacuum Products | Application, Characteristics and Usage Chart for Vacuum Cups

Nitrile Vacuum Cups		DESTACKER APPLICATION	FLAT CONTOURS	MILD CONTOURS	HIGH CONTOURS	SLICK/OILY SURFACES	DRY SURFACES	HOT FORMING	Application Direction
 <p>Covered under one or more U.S./International Patents</p> <p>Destacker Vacuum Cups</p>		5	5	N/A	N/A	3	5	N/A	VERTICAL
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	HORIZONTAL
 <p>Round Traction Vacuum Cups</p>		4	5	4	2	5	5	N/A	VERTICAL
		N/A	5	3	1	5	5	N/A	HORIZONTAL
 <p>Round Flatfoot Vacuum Cups</p>		4	4	5	3	4	4	N/A	VERTICAL
		N/A	4	5	3	4	4	N/A	HORIZONTAL
 <p>Round Belcup Vacuum Cups</p>		4	5	4	2	3	4	N/A	VERTICAL
		N/A	3	3	1	2	4	N/A	HORIZONTAL
 <p>Round Deepdish Vacuum Cups</p>		1	1	3	5	3	3	N/A	VERTICAL
		N/A	1	3	5	3	3	N/A	HORIZONTAL
 <p>Oval Deepdish Vacuum Cups</p>		1	3	4	2	4	3	N/A	VERTICAL
		N/A	3	4	2	3	3	N/A	HORIZONTAL
 <p>Oval Flatfoot Vacuum Cups</p>		3	4	3	1	4	4	N/A	VERTICAL
		N/A	4	3	1	3	4	N/A	HORIZONTAL
 <p>Hot Forming Vacuum Cups</p>		3	3	2	1	3	4	5	VERTICAL
		N/A	3	2	1	2	3	5	HORIZONTAL






Worst Cup for the Job **1** **2** **3** **4** **5** Best Cup for the Job **N/A** Not Advised for the application

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



# CHOOSE THE RIGHT VACUUM CUP FOR YOUR APPLICATION

Vacuum Products | Application, Characteristics and Usage Chart for Vacuum Cups

Polyurethane Vacuum Cups		DESTACKER APPLICATION	FLAT CONTOURS	MILD CONTOURS	HIGH CONTOURS	SLICK OILY SURFACES	DRY SURFACES	HOT FORMING	Application Direction
		4	5	4	2	5	5	N/A	VERTICAL
	Round Bellows Vacuum Cups	N/A	5	3	1	5	5	N/A	HORIZONTAL
		4	4	5	2	4	5	N/A	VERTICAL
	Round Flat Foot Vacuum Cups	N/A	4	5	2	4	5	N/A	HORIZONTAL
		3	4	5	5	4	5	N/A	VERTICAL
	Round Deepdish Vacuum Cups	3	4	5	5	4	5	N/A	HORIZONTAL
		3	4	4	2	4	5	N/A	VERTICAL
	Oval Bellows Vacuum Cups	N/A	4	3	2	3	5	N/A	HORIZONTAL
		3	4	3	2	3	5	N/A	VERTICAL
	Oval Flat Foot Vacuum Cups	N/A	3	3	2	2	5	N/A	HORIZONTAL

Worst Cup for the Job **1** **2** **3** **4** **5** Best Cup for the Job     **N/A** Not Advised for the application

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

# CHOOSE THE RIGHT VACUUM CUP FOR YOUR APPLICATION

Vacuum Products | ACU Index, How Vacuum Cups Work, Cup Usage, and Safety Factor

## 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)?

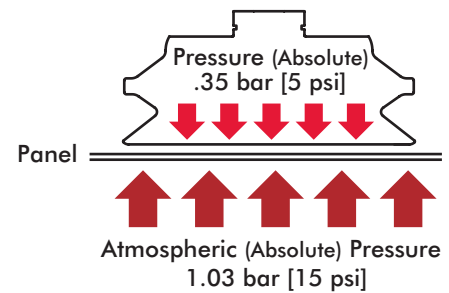


A set of vacuum cups of the same size and type, each having different durometers may handle oily/slick or contoured parts differently. However, cup longevity of each may be affected as a result of durometer, application and usage. The ACU Index is a reference shown with each type of vacuum cup and is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

### Formula

$$n = \frac{w \times s}{f}$$

- w = Weight of Panel
- f = Lifting force of cup
- s = Safety factor
- n = Number of cups

Weight and lifting force must be in the same units, either English or Metric.

## 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)

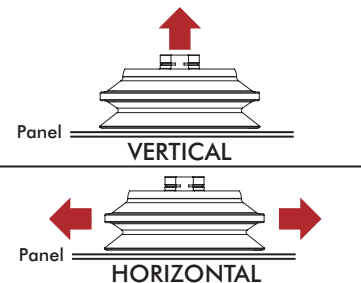
Starting with Ideal conditions (2), add each additional conditions to determine total safety factor.

For example:

Ideal conditions:	2
Fast moving robots:	+1
Flexing Panel:	+2
<b>Total Safety Factor</b>	<b>5</b>

(\*Ideal conditions are defined as having no surface, operational, or environmental conditions which could adversely effect the performance to the vacuum cup.

## Relative Cup Motion



# VACUUM CUP OPTIONS

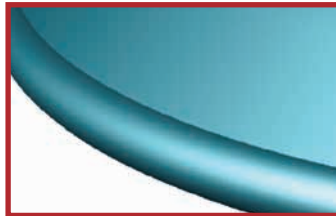
Vacuum Products | Durometer and Mounting Options

DESTACO 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. This durometer has a longer life than the 45 durometer.



**PU55/PU60**

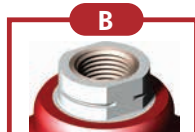
This durable long-lasting polyurethane material is resistant to oils, UV light and oxygen. No dry rotting or cracking with better elastic memory.

= Durometer not available in cup style.

## Imperial Vacuum Cup Mounting Options ("M")



1/4" NPT



3/8" NPT



1.25" SQUARE



1/2" NPT



1/8" NPT MALE



QUICK DISCONNECT

## Metric Vacuum Cup Mounting Options ("M")



1/4" G



3/8" G



1.25" SQUARE



M10 MALE



M8 FEMALE



SMOOTH BORE

CUP = Mount only available in this cup size.

CUP = Mount not available in this cup size.

## Specialty Vacuum Cup Mounting Options ("M")



3/8 NPT



Nylon G3/8



G3/8



1.25 in. Square

## Micro Industrial Mounting Options ("M")



10-32 MALE



1/8" G FEMALE



1/8" G MALE



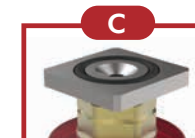
3/8 NPT



Nylon G3/8



G3/8

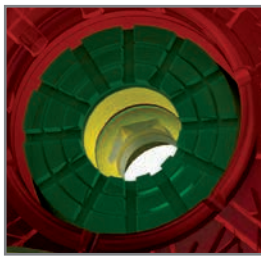


1.25 in. Square

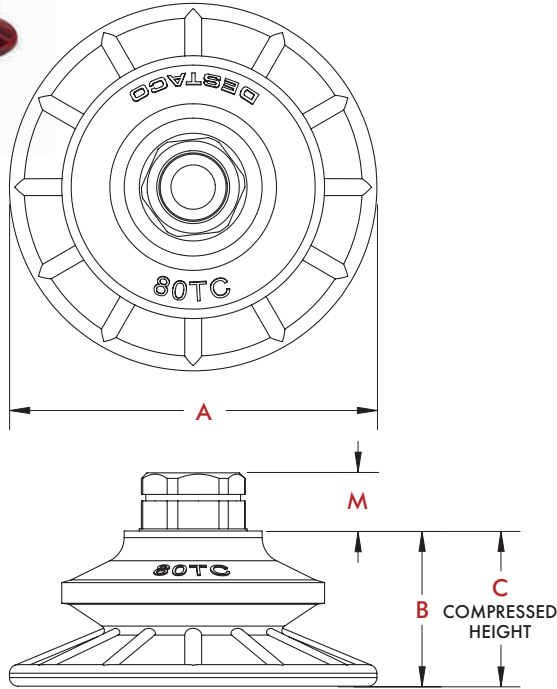
# ACCELERATE® COLLECTION VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

## TC Polyurethane Round Bellows



TCT (triple durometer) style cup offers extra soft, 30 durometer, internal cushion (yellow) to eliminate possible dimples on thin sheet metal.



mm [INCH]  
THIRD ANGLE PROJECTION

Mount	M
U38/G38	[0.57]
	14.5
P38	[0.85]
	21.5
C	[0.73]
	18.5

Dimensions shown "[inch] mm"

## TC Dimensions

Model	A	B	C	Weight
30TC	[1.18]	[0.57]	[0.37]	[1.00 oz]
	30	14.5	9.5	28 g
40TC	[1.77]	[0.69]	[0.41]	[1.20 oz]
	45	17.5	10.5	34 g
60TC	[2.40]	[0.85]	[0.45]	[2.15 oz]
	61	21.5	11.5	61 g
80TC/ 80TCT	[3.35]	[1.40]	[0.85]	[4.97 oz]
	85	35.5	21.5	141 g
110TC/ 110TCT	[4.53]	[2.03]	[1.20]	[9.70 oz]
	115	51.5	30.5	275 g

Dimensions shown "[inch] mm"

## TC Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
30TC	[6]	[3]	[1.75]
	2.72	1.36	0.79
40TC	[18]	[13]	[10]
	8.16	5.90	4.54
60TC	[25]	[27]	[20]
	11.34	12.25	9.07
80TC/ 80TCT	[53]	[54]	[36]
	24.04	24.49	16.33
110TC/ 110TCT	[85]	[78]	[57]
	38.56	35.38	25.86

Holding capacities shown "[lbs] kg"

## TC Round Bellows Ordering Information

Metric

Ø30mm.....	VC-30TC-(M)-PU55
Ø45mm.....	VC-40TC-(M)-PU55
Ø61mm.....	VC-60TC-(M)-PU55
Ø85mm.....	VC-80TC-(M)-PU55
Ø85mm.....	VC-80TCT-(M)-PU55
Ø115mm.....	VC-110TC-(M)-PU55
Ø115mm.....	VC-110TCT-(M)-PU55

## Mounting Options ("M")



# ACCELERATE® COLLECTION VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

## Specifications:

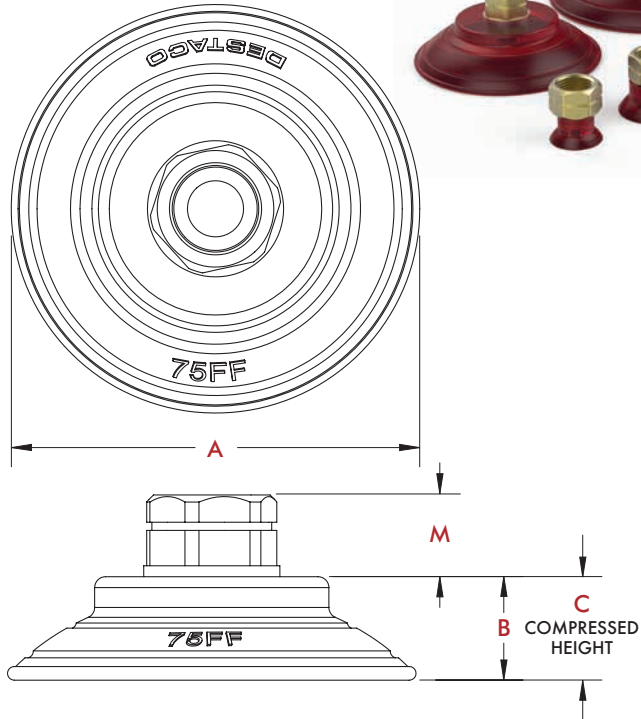
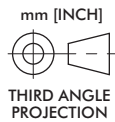
Temperature:

10°-49° C [50°-120° F]

Materials: Dual Durometer

Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green).

## FF Polyurethane Round Flat



Mount	M
U38/G38	[0.57] 14.5
P38	[0.85] 21.5
C	[0.73] 18.5

Dimensions shown "[inch] mm"

## FF Dimensions

Model	A	B	C	Weight
25FF	[0.98] 25	[0.57] 14.5	[0.49] 12.5	[0.36 oz] 10 g
35FF	[1.38] 35	[0.61] 15.5	[0.51] 13	[1.48 oz] 42 g
50FF	[1.97] 50	[0.26] 6.5	[0.51] 13	[2.36 oz] 67 g
75FF	[2.95] 75	[0.77] 19.5	[0.59] 15	[3.21 oz] 91 g
100FF	[3.94] 100	[0.96] 24.5	[0.73] 18.5	[6.06 oz] 172 g
125FF	[4.92] 125	[1.20] 30.5	[0.89] 22.5	[9.88 oz] 280 g

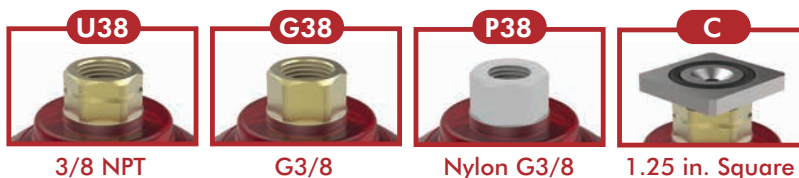
Dimensions shown "[inch] mm"

## FF Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
25FF	[6] 2.72	[2] 0.91	[1.5] 0.68
35FF	[13] 5.90	[9] 4.08	[7] 3.18
50FF	[24] 10.89	[23] 10.43	[16] 7.26
75FF	[53] 24.04	[47] 21.32	[31] 14.06
100FF	[110] 49.90	[109] 49.44	[46] 20.87
125FF	[146] 66.23	[135] 61.24	[53] 24.04

Holding capacities shown "[lbs] kg"

## Mounting Options ("M")



## FF Round Flat Ordering Information

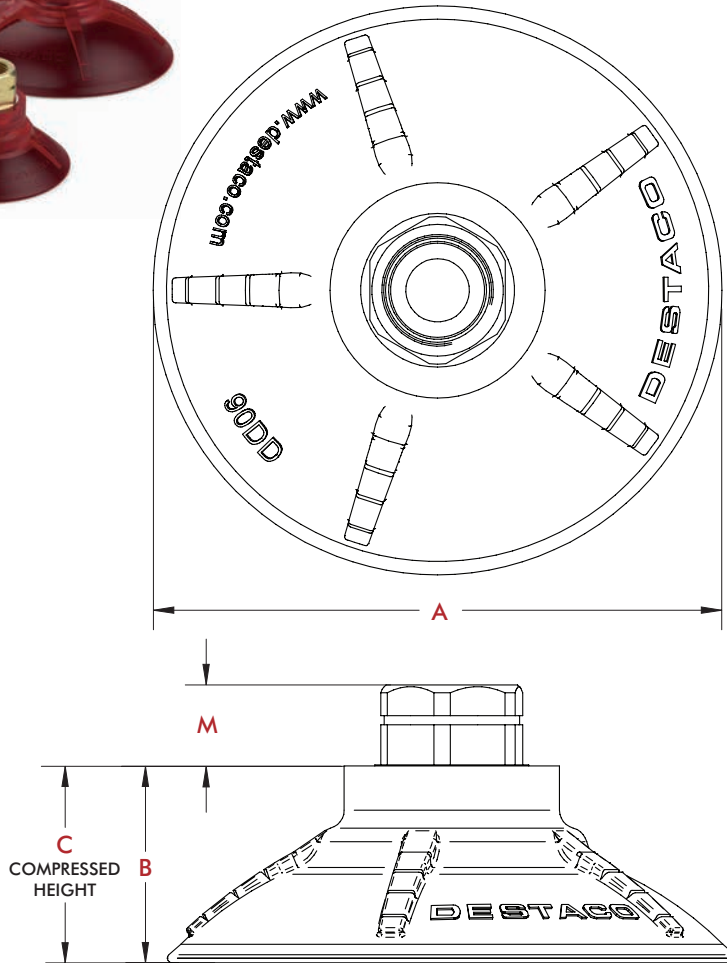
Metric

Ø25mm	VC-25FF-(M)-PU55
Ø35mm	VC-35FF-(M)-PU55
Ø50mm	VC-50FF-(M)-PU55
Ø75mm	VC-75FF-(M)-PU55
Ø100mm	VC-100FF-(M)-PU55
Ø125mm	VC-125FF-(M)-PU55

# ACCELERATE® COLLECTION VACUUM CUPS

Vacuum Products | Dimensions | Technical Specifications

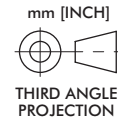
## DD Polyurethane Round Deepdish



### Specifications:

Temperature:  
10°-49° C [50°-120° F]

Materials:  
60 durometer (red)



Mount	M
U38	[0.51] 13
G38	[0.77] 19.5
P38	[0.68] 17.3
C	[0.37] 9.5

Dimensions shown "[inch] mm"

### DD Dimensions

Model	A	B	C	Weight with U38/G38/C	Weight with P38
65DD	[2.66]	[1.11]	[0.67]	[2.08 oz]	[0.9 oz]
	67.5	28.2	17.0	59 g	25 g
90DD	[3.64]	[1.27]	[0.75]	[2.72 oz]	[1.5 oz]
	92.5	32.2	19.0	77 g	43 g
110DD	[4.43]	[1.60]	[0.83]	[3.60 oz]	[2.4 oz]
	112.5	40.6	21.0	102 g	68 g

Dimensions shown "[inch] mm"

### DD Holding Capacity

@ -0.9 bar [25.6 inhg] vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
65DD	[42.8]	[44.1]	[30.2]
	19.4	20.0	13.7
90DD	[69.7]	[80.5]	[55.8]
	31.6	36.5	25.3
110DD	[97.4]	[129.0]	[80.5]
	44.2	58.5	36.5

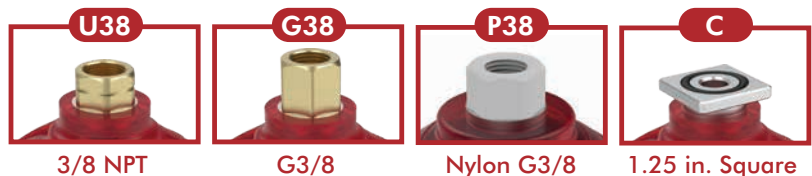
Holding capacities shown "[lbs] kg"

### DD Round Deepdish Ordering Information

Metric

Ø67.5mm..... VC-65DD-(M)-PU60  
 Ø92.5mm..... VC-90DD-(M)-PU60  
 Ø112.5mm..... VC-110DD-(M)-PU60

### Mounting Options ("M")



# ACCELERATE® COLLECTION VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

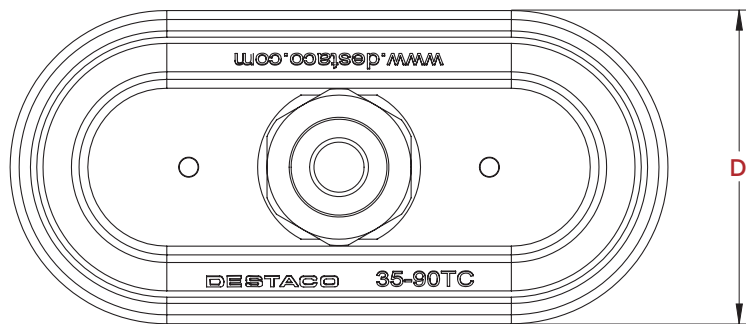
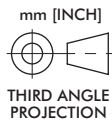


Positioning Kit (for G38 and P38 thread mounts only). Sold separately. Order No. **CPI-LNB-VSA-19** Includes (1) O-ring and (1) locknut.

### Specifications:

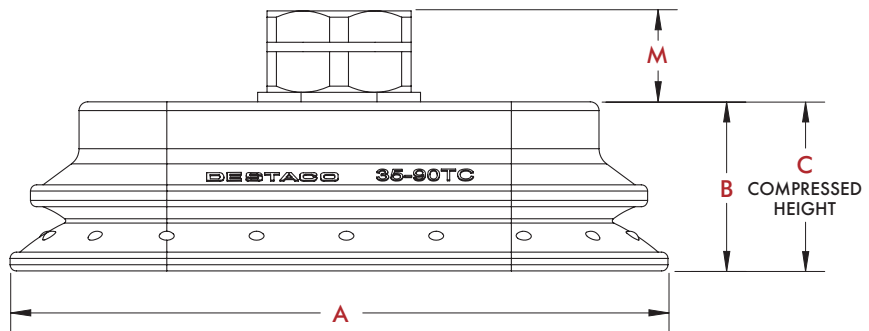
**Temperature:** 10°-49° C [50°-120° F]  
**Materials:** Dual Durometer Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green).

### TC Polyurethane Oval Bellows



Mount	M
U38/G38	[0.57] 14.5
P38	[0.85] 21.5
C	[0.73] 18.5

Dimensions shown "[inch] mm"



### TC Dimensions

Model	A	B	C	D	Weight
35-90TC	[4.13]	[1.08]	[0.65]	[1.97]	[3.42 oz]
	105	27.5	16.5	50	97 g
50-140TC	[6.18]	[1.40]	[0.85]	[2.64]	[6.70 oz]
	157	35.5	21.5	67	190 g
65-170TC	[7.36]	[1.63]	[1.04]	[3.23]	[10.93 oz]
	187	41.5	26.5	82	310 g

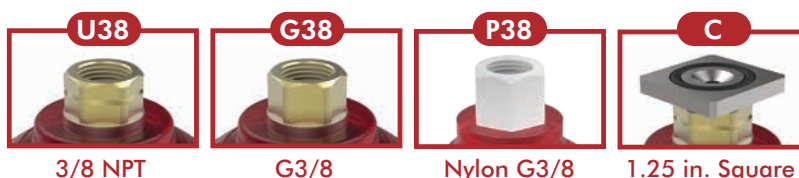
Dimensions shown "[inch] mm"

### TC Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
35-90TC	[45]	[40]	[34]
	20.41	18.14	15.42
50-140TC	[99]	[93]	[78]
	44.91	42.18	35.38
65-170TC	[128]	[139]	[149]
	58.06	63.05	67.59

Holding capacities shown "[lbs] kg"

### Mounting Options ("M")



### TC Oval Bellows Ordering Information

Metric	
Ø50x105mm	VC-35-90TC-(M)-PU55
Ø67x157mm	VC-50-140TC-(M)-PU55
Ø82x187mm	VC-65-170TC-(M)-PU55

# ACCELERATE® COLLECTION VACUUM CUPS

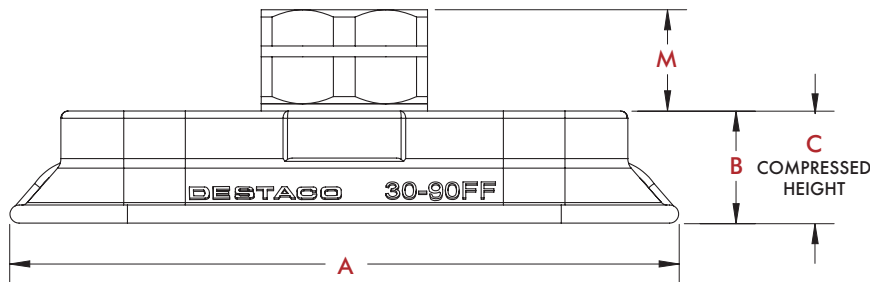
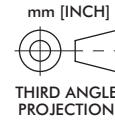
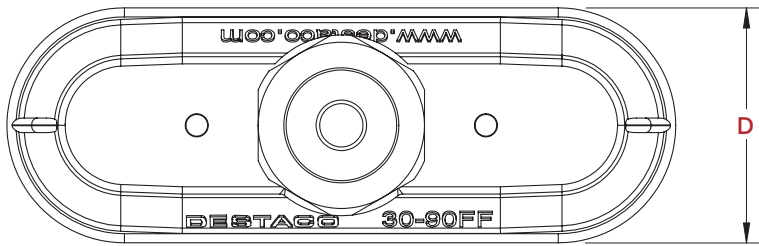
Vacuum Products | Dimensions | Ordering Information

## FF Polyurethane Oval Flat



**Specifications:**  
**Temperature:**  
 10°-49° C [50°-120° F]  
**Materials:** Dual Durometer Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green).

Positioning Kit (for G38 and P38 thread mounts only).  
 Sold separately.  
 Order No. **CPI-LNB-VSA-19**  
 Includes (1) O-ring and (1) locknut.



Mount	M
U38/G38	[0.57] 14.5
	[0.85] 21.5
P38	[0.73] 18.5

Dimensions shown "[inch] mm"

### FF Dimensions

Model	A	B	C	D	Weight
20-80FF	[3.31] 84	[0.61] 15.5	[0.49] 12.5	[0.94] 24	[0.85 oz] 24 g
	[3.66] 93	[0.61] 15.5	[0.45] 11.5	[1.30] 33	[1.05 oz] 30 g
30-90FF	[4.45] 113	[0.85] 21.5	[0.65] 16.5	[1.69] 43	[1.94 oz] 55 g

Dimensions shown "[inch] mm"

### FF Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
20-80FF	[25] 11.34	[25] 11.34	[11] 4.99
	[35] 15.88	[36] 16.33	[17] 7.71
30-90FF	[55] 24.95	[52] 23.59	[18] 8.16

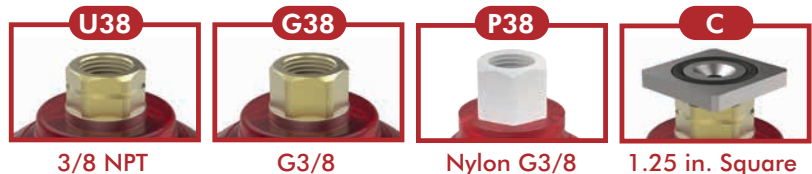
Holding capacities shown "[lbs] kg"

### FF Oval Flat Ordering Information

Metric

Ø24x84mm..... VC-20-80FF-(M)-PU55  
 Ø33x93mm..... VC-30-90FF-(M)-PU55  
 Ø43x113mm..... VC-40-110FF-(M)-PU55

### Mounting Options ("M")





# VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

## Specifications:

### Temperature:

15-59 Sec: -20° to 250° F [-29° to 121° C]

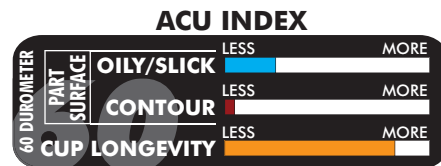
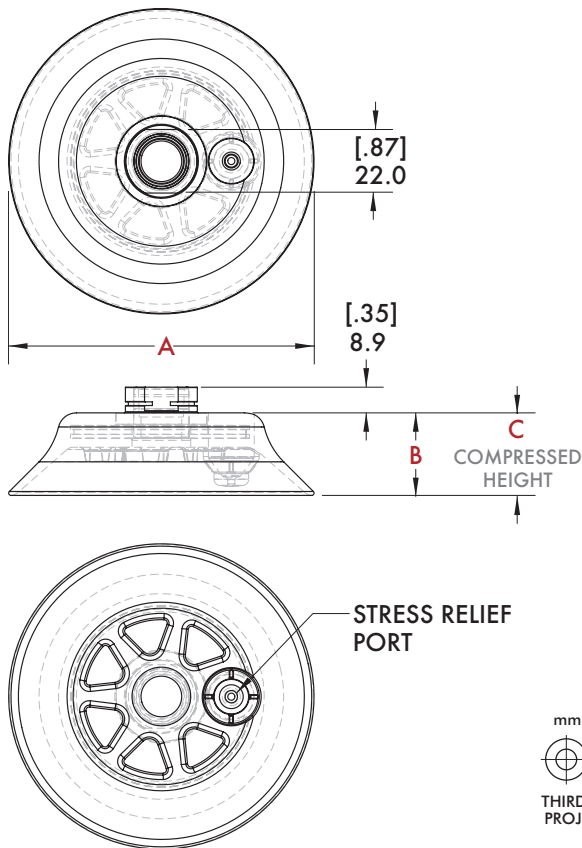
1-5 min: 15° to 180° F [-9° to 82° C]

### Material: Nitrile

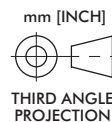
### Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol

## DC Destacker Stress Relieving



Covered under one or more U.S./International Patents



## DC Dimensions

Model	A	B	C	Weight
75DC	84.8	25.4	16.7	84 g
[30DC]	[3.34]	[1.00]	[.68]	[3.0 oz]
100DC	105.9	28.6	16.7	120 g
[40DC]	[4.16]	[1.11]	[.68]	[4.2 oz]

Dimensions shown "mm [inch]"

## DC Capacity

Appl.	Ver. Lift
75DC	15.9 kg
[30DC]	[35 lb]
100DC	63.1 kg
[40DC]	[139 lb]

Holding capacities shown "N [lbf]"

## DC Destacker Stress Relieving Ordering Information

### Imperial

Ø3.00" ..... CPI-30DC-(M)-60

Ø4.00" ..... CPI-40DC-(M)-60

### Metric

Ø75 mm ..... CPI-75DC-(M)-60

Ø100 mm ..... CPI-100DC-(M)-60

(DR) = Durometer



(M) = Mounts Available



(DR) = Durometer



(M) = Mounts Available



# VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

## TC/HT Round Traction



### Specifications:

Temperature:

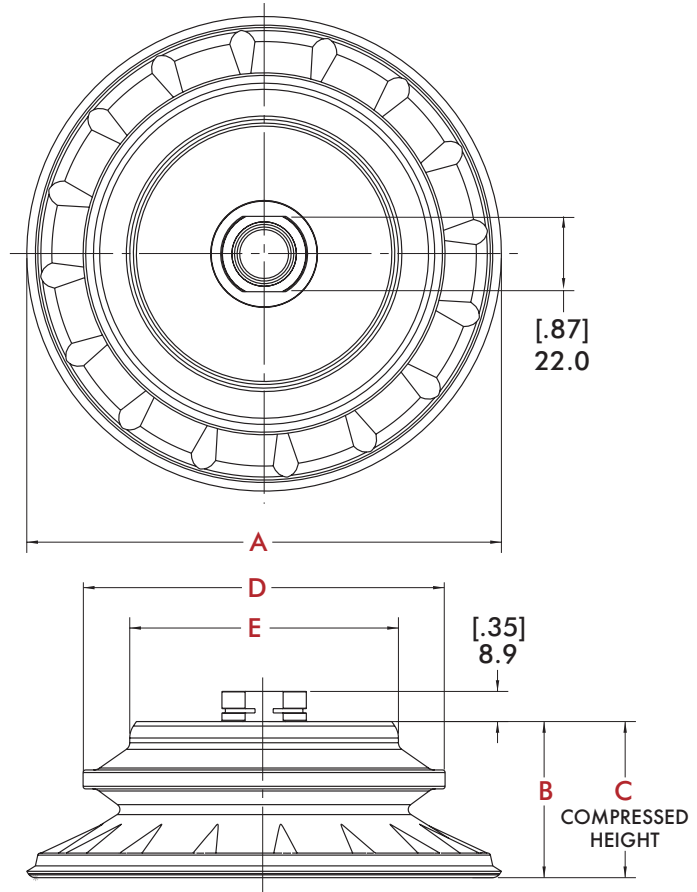
15-59 Sec: -29° to 121° C [-20° to 250° F]

1-5 min: -9° to 82° C [15° to 180° F]

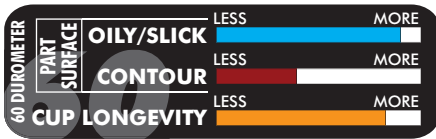
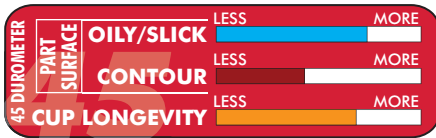
Material: Nitrile

Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol



### ACU INDEX



### TC/HT Dimensions

Model	A	B	C	D	E	Weight
[20TC]	[2.06]	[1.02]	[.68]	[1.64]	[1.25]	[1.3 oz]
50HT	52.3	25.7	17.3	41.7	31.8	37 g
[35TC]	[3.50]	[1.71]	[.82]	[2.50]	[1.65]	[2.6 oz]
90HT	88.9	43.44	20.8	63.5	41.9	73 g
[45TC]	[4.50]	[1.81]	[.87]	[3.25]	[2.25]	[4.4 oz]
115HT	114.3	46.1	22.1	82.4	57.2	125 g
[55TC]	[5.50]	[1.81]	[.87]	[4.00]	[3.04]	[7.2 oz]
140HT	139.7	46.1	22.1	101.4	77.1	204 g

Dimensions shown "mm [inch]"

### TC/HT Holding Capacity

Appl.	Hor. Dry	Hor. Wet	Ver. Lift
[20TC]	[8.5 lb]	[7 lb]	[22.7 lb]
50HT	3.9 kg	3.2 kg	10.3 kg
[35TC]	[30 lb]	[20 lb]	[66 lb]
90HT	13.6 kg	9.1 kg	29.9 kg
[45TC]	[45 lb]	[30 lb]	[103 lb]
115HT	20.4 kg	13.6 kg	46.7 kg
[55TC]	[100 lb]	[45 lb]	[164 lb]
140HT	45.5 kg	20.4 kg	74.4 kg

Holding capacities shown "N [lbf]"

## TC/HT Round Traction Ordering Information

Imperial

- Ø2.00" ..... CPI-20TC-(M)-(DR)
- Ø3.50" ..... CPI-35TC-(M)-(DR)
- Ø4.50" ..... CPI-45TC-(M)-(DR)
- Ø5.50" ..... CPI-55TC-(M)-(DR)

..(M) = Mounts Available..

**K B C D** ~~20TC~~ ~~E1~~ ~~20TC~~

..(DR) = Durometer..

~~45~~ **60**

Metric

- Ø50mm..... CPI-50HT-(M)-(DR)
- Ø90mm..... CPI-90HT-(M)-(DR)
- Ø115mm..... CPI-115HT-(M)-(DR)
- Ø140mm..... CPI-140HT-(M)-(DR)

..(M) = Mounts Available..

**A B C**

..(DR) = Durometer..

~~45~~ **60**

# VACUUM CUPS

Vacuum Products | Dimensions | Technical Specifications

## Specifications:

### Temperature:

15-59 Sec: -20° to 250° F [-29° to 121° C]

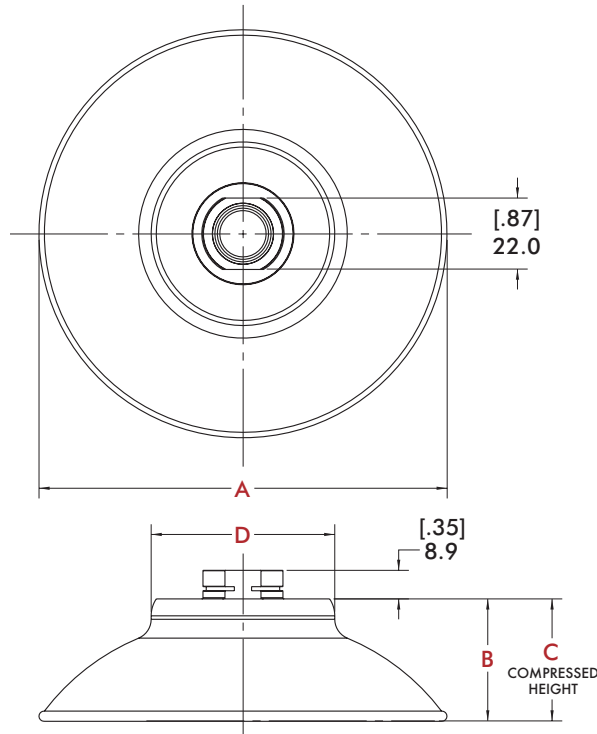
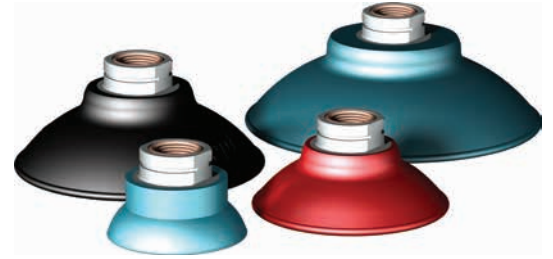
1-5 min: 15° to 180° F [-9° to 82° C]

### Material: Nitrile

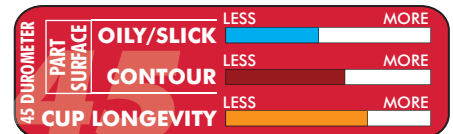
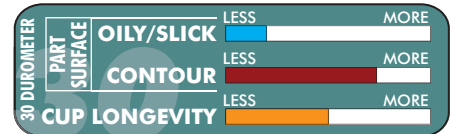
### Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol

## FF/PF Round Flatfoot



## ACU INDEX



## FF/PF Round Flatfoot

Model	A	B	C	D	Weight
50PF	50.8	22.5	13.0	19.1	40 g
[20FF]	[2.00]	[.89]	[.51]	[.75]	[1.4 oz]
75PF	76.2	25.4	18.2	39.6	57 g
[30FF]	[3.00]	[1.00]	[.72]	[1.56]	[2.0 oz]
100PF	101.6	33.3	22.2	39.6	96 g
[40FF]	[4.00]	[1.31]	[.88]	[1.56]	[3.4 oz]
125PF	127.0	38.2	25.4	57.2	159 g
[50FF]	[5.00]	[1.50]	[1.00]	[2.25]	[5.6 oz]

Dimensions shown "mm [inch]"

## FF/PF Vacuum Cup Capacities:

Appl.	Hor. Dry	Hor. Wet	Ver. Lift
50PF	6.4 kg	2.7 kg	9.1 kg
[20FF]	[14 lb]	[6 lb]	[20 lb]
75PF	13.6 kg	5.9 kg	27.2 kg
[30FF]	[30 lb]	[13 lb]	[60 lb]
100PF	15.9 kg	9.1 kg	46.3 kg
[40FF]	[35 lb]	[20 lb]	[102 lb]
125PF	31.8 kg	25.8 kg	74.8 kg
[50FF]	[70 lb]	[55 lb]	[165 lb]

Holding capacities shown "N [lbf]"

## FF/PF Round Flatfoot Vacuum Cups Ordering Information

### Imperial

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 40FF 50FF E1

### Metric

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

# VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

## AC/BT Round Belcup



### Specifications:

#### Temperature:

15-59 Sec: -20° to 250° F [-29° to 121° C]

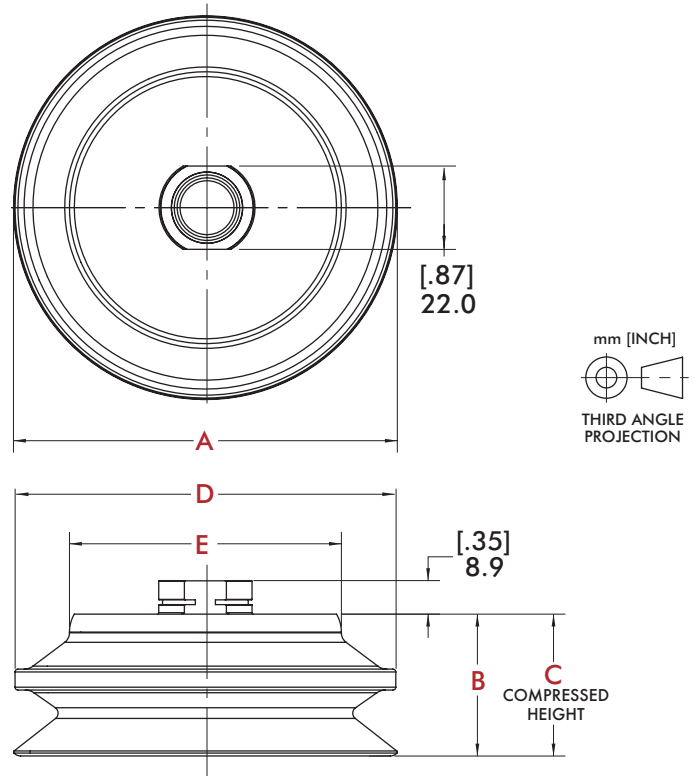
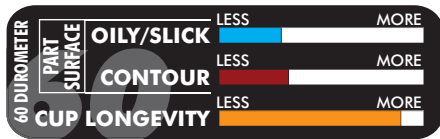
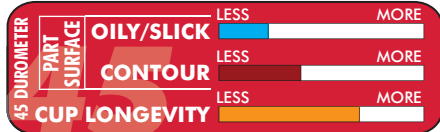
1-5 min: 15° to 180° F [-9° to 82° C]

Material: Nitrile

#### Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol

### ACU INDEX



## AC/BT Round Belcup

Model	A	B	C	D	E	Weight
40BT	41.1	25.9	11.9	41.1	31.8	35 g
[15AC]	[1.62]	[1.02]	[.47]	[1.63]	[1.25]	[1.2 oz]
50BT	57.4	37.4	18.3	57.9	38.1	57 g
[20AC]	[2.26]	[1.47]	[.72]	[2.28]	[1.50]	[2.0 oz]
75BT	78.9	38.8	19.8	80.0	56.6	91 g
[30AC]	[3.11]	[1.53]	[.78]	[3.15]	[2.23]	[3.2 oz]
100BT	102.4	37.8	18.6	101.6	72.6	159 g
[40AC]	[4.03]	[1.49]	[.73]	[4.00]	[2.85]	[5.6 oz]
125BT	127.0	38.1	19.0	127.0	97.8	232 g
[50AC]	[5.00]	[1.50]	[.75]	[5.00]	[3.85]	[8.2 oz]

Dimensions shown "mm [inch]"

## AC/BT Vacuum Cup Capacities:

Appl.	Hor. Dry	Hor. Wet	Ver. Lift
40BT	2.7 kg	1.4 kg	3.6 kg
[15AC]	[6 lb]	[3 lb]	[8 lb]
50BT	3.9 kg	2.0 kg	11.8 kg
[20AC]	[8.5 lb]	[4.5 lb]	[26 lb]
75BT	5.4 kg	2.7 kg	25.4 kg
[30AC]	[12 lb]	[6 lb]	[56 lb]
100BT	15.0 kg	3.6 kg	40.4 kg
[40AC]	[33 lb]	[8 lb]	[89 lb]
125BT	24.0 kg	6.8 kg	62.6 kg
[50AC]	[53 lb]	[15 lb]	[138 lb]

Holding capacities shown "N [lbf]"

## AC/BT Round Belcup Vacuum Cups Ordering Information

### Imperial

- Ø1.50" ..... CPI-15AC-(M)-(DR)
- Ø2.00" ..... CPI-20AC-(M)-(DR)
- Ø3.00" ..... CPI-30AC-(M)-(DR)
- Ø4.00" ..... CPI-40AC-(M)-(DR)
- Ø5.00" ..... CPI-50AC-(M)-(DR)

(DR) = Durometer



(M) = Mounts Available



### Metric

- Ø40mm ..... CPI-40BT-(M)-(DR)
- Ø50mm ..... CPI-50BT-(M)-(DR)
- Ø75mm ..... CPI-75BT-(M)-(DR)
- Ø100mm ..... CPI-100BT-(M)-(DR)
- Ø125mm ..... CPI-125BT-(M)-(DR)

(DR) = Durometer



(M) = Mounts Available



# VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

## DD/DM Round Deepdish

### Specifications:

#### Temperature:

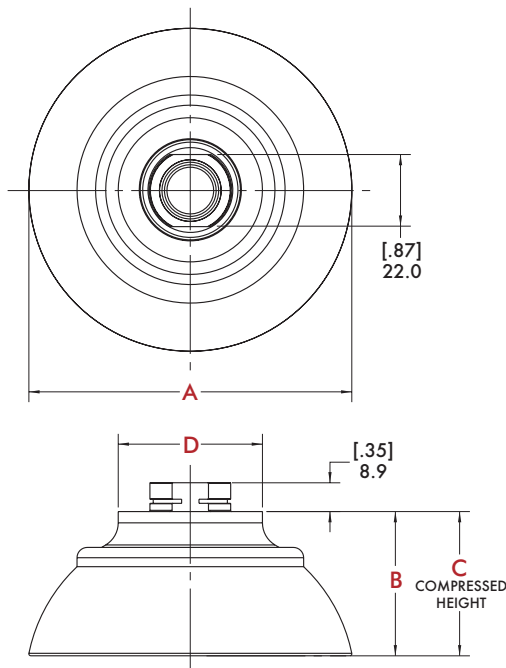
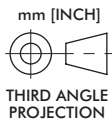
15-59 Sec: -20° to 250° F [-29° to 121° C]

1-5 min: 15° to 180° F [-9° to 82° C]

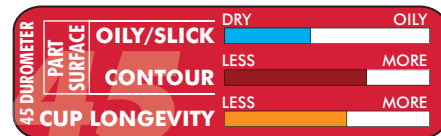
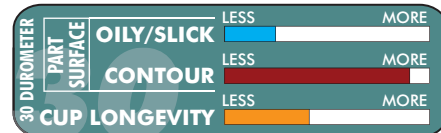
#### Material: Nitrile

#### Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol



### ACU INDEX



### DD/DM Round Deepdish

Model	A	B	C	D	Weight
50DM	50.8	29.1	18.3	38.1	40 g
[20DD]	[2.00]	[1.14]	[.72]	[1.50]	[1.4 oz]
75DM	76.2	40.4	24.3	44.0	57 g
[30DD]	[3.00]	[1.59]	[.96]	[1.73]	[2.0 oz]
100DM	101.6	44.5	20.8	44.5	96 g
[40DD]	[4.00]	[1.75]	[.82]	[1.75]	[3.4 oz]

Dimensions shown "mm [inch]"

### DD/DM Vacuum Cup Capacities:

Appl.	Hor. Dry	Hor. Wet	Ver. Lift
50DM	4.1 kg	3.2 kg	5.4 kg
[20DD]	[9 lb]	[7 lb]	[12 lb]
75DM	6.4 kg	2.7 kg	9.1 kg
[30DD]	[14 lb]	[6 lb]	[20 lb]
100DM	11.3 kg	3.2 kg	15.8 kg
[40DD]	[25 lb]	[7lb]	[35 lb]

Holding capacities shown "N [lbf]"

### DD/DM Round Deepdish Vacuum Cups Ordering Information

#### Imperial

Ø2.00" ..... CPI-20DD-(M)-(DR)

Ø3.00" ..... CPI-30DD-(M)-(DR)

Ø4.00" ..... CPI-40DD-(M)-(DR)

(DR) = Durometer

30 45

(M) = Mounts Available

K B C

#### Metric

Ø50mm..... CPI-50DM-(M)-(DR)

Ø75mm..... CPI-75DM-(M)-(DR)

Ø100mm..... CPI-100DM-(M)-(DR)

(DR) = Durometer

30 45

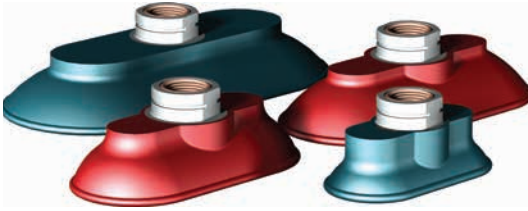
(M) = Mounts Available

A B C

# VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

## FF/PF Oval FlatFoot



### Specifications:

#### Temperature:

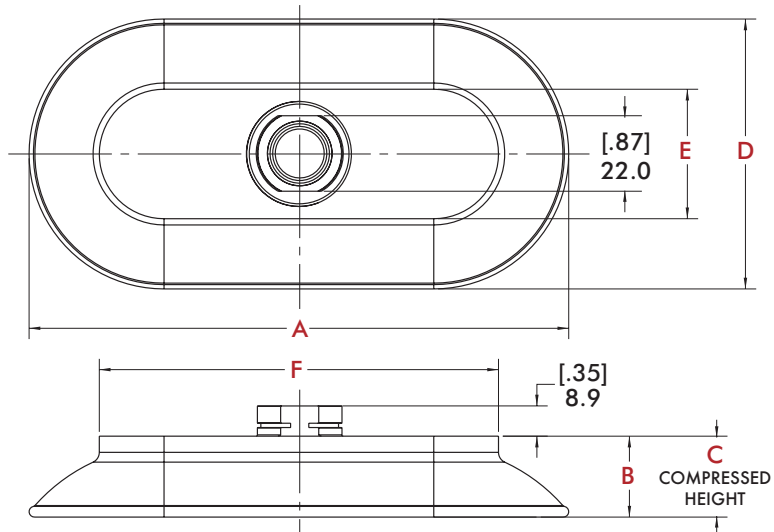
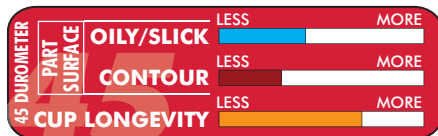
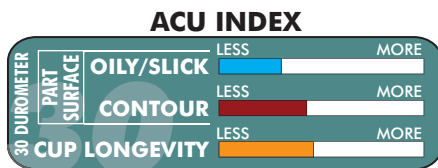
15-59 Sec: -20° to 250° F [-29° to 121° C]

1-5 min: 15° to 180° F [-9° to 82° C]

#### Material: Nitrile

#### Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol



## FF/PF Oval Flatfoot

Model	A	B	C	D	E	F	Weight
40-75PF [153FF]	76.2 [3.00]	22.3 [.88]	16.2 [.64]	38.1 [1.50]	22.2 [.88]	60.3 [2.37]	35 g [1.2 oz]
50-100PF [24FF]	101.6 [4.00]	23.8 [.94]	16.2 [.64]	50.8 [2.00]	22.2 [.88]	73.0 [2.88]	119 g [4.2 oz]
60-125PF [255FF]	127.0 [5.00]	22.3 [.88]	16.2 [.64]	63.5 [2.50]	22.2 [.88]	85.7 [3.38]	147 g [5.2 oz]
75-150PF [36FF]	152.9 [6.00]	25.4 [1.00]	18.3 [.72]	76.2 [3.00]	38.1 [1.50]	114.3 [4.50]	201 g [7.1 oz]

Dimensions shown "mm [inch]"

## FF/PF Vacuum Cup Capacities:

Appl.	Hor. Dry	Hor. Wet	Ver. Lift
40-75PF [153FF]	6.8 kg [15 lb]	2.3 kg [5 lb]	8.2 kg [18 lb]
50-100PF [24FF]	8.2 kg [18 lb]	2.7 kg [6 lb]	19.1 kg [42 lb]
60-125PF [255FF]	20.4 [45 lb]	3.2 kg [7 lb]	25 kg [55 lb]
75-150PF [36FF]	24.9 [55 lb]	4.1 kg [9 lb]	32.7 kg [72 lb]

Holding capacities shown "N [lbf]"

## FF/PF Oval FlatFoot Vacuum Cups Ordering Information

### Imperial

- 1.50" x 3.00" ..... CPI-153FF-(M)-(DR)
- 2.00" x 4.00" ..... CPI-24FF-(M)-(DR)
- 2.50" x 5.00" ..... CPI-255FF-(M)-(DR)
- 3.00" x 6.00" ..... CPI-36FF-(M)-(DR)

(DR) = Durometer



(M) = Mounts Available



### Metric

- 40 x 75mm ..... CPI-40-75PF-(M)-(DR)
- 50 x 100mm ..... CPI-50-100PF-(M)-(DR)
- 60 x 125mm ..... CPI-60-125PF-(M)-(DR)
- 75 x 150mm ..... CPI-75-150PF-(M)-(DR)

(DR) = Durometer



(M) = Mounts Available



# VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

## DD/DM Oval Deepdish

### Specifications:

#### Temperature:

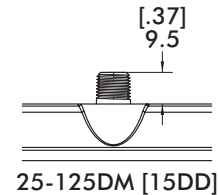
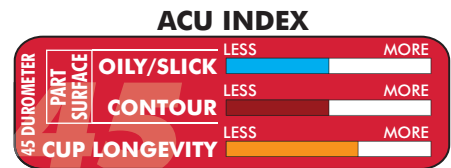
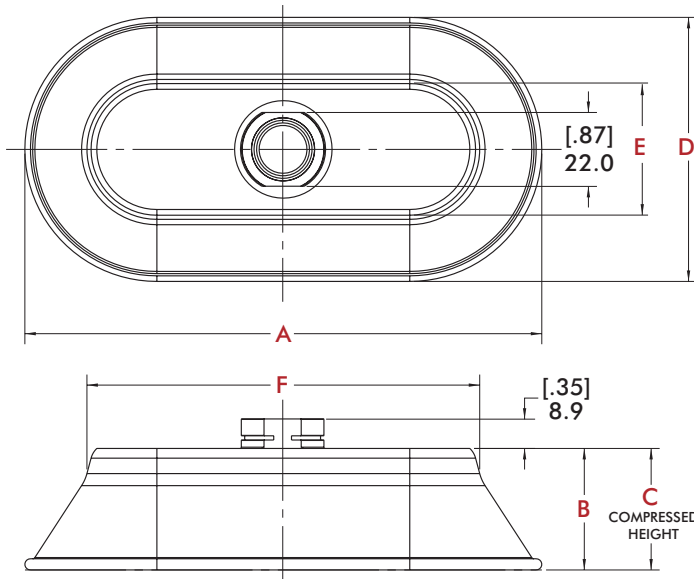
15-59 Sec: -20° to 250° F [-29° to 121° C]

1-5 min: 15° to 180° F [-9° to 82° C]

#### Material: Nitrile

#### Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol



### DD/DM Oval Deepdish

Model	A	B	C	D	E	F	Weight
25-125DM	128.7	17.1	8.7	27.0	12.9	114.5	35 g
[15DD]	[5.06]	[.67]	[.34]	[1.06]	[.51]	[4.51]	[1.2 oz]
75-150DM	155.8	36.7	16.51	79.6	39.7	118.4	201 g
[36DD]	[6.13]	[1.44]	[.65]	[3.13]	[1.56]	[4.65]	[7.1 oz]

Dimensions shown "mm [inch]"

### DD/DM Vacuum Cup Capacities:

Appl.	Hor. Dry	Hor. Wet	Ver. Lift
25-125DM	10.0 kg	3.2 kg	15.9 kg
[15DD]	[22 lb]	[7 lb]	[35 lb]
75-150DM	24.9 kg	10.4 kg	63.1 kg
[36DD]	[55 lb]	[23 lb]	[139 lb]

Holding capacities shown "N [lbf]"

### DD/DM Oval Deepdish Vacuum Cups Ordering Information

#### Imperial

1.00" x 5.00" ..... CPI-15DD-(M)-(45)

3.00" x 6.00" ..... CPI-36DD-(M)-(45)

#### Metric

25 x 125mm..... CPI-25-125DM-(M)-(45)

75 x 150mm..... CPI-75-150DM-(M)-(45)

(DR) = Durometer



(M) = Mounts Available



(DR) = Durometer



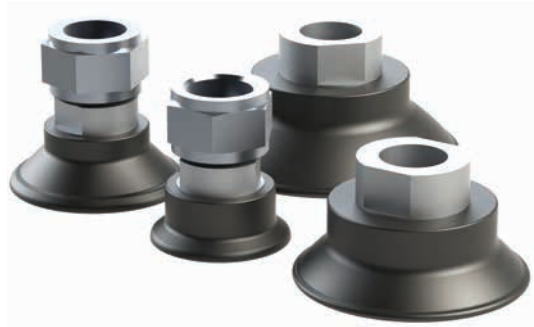
(M) = Mounts Available



# HOT FORMING VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

## MFF Round Flat



### Specifications:

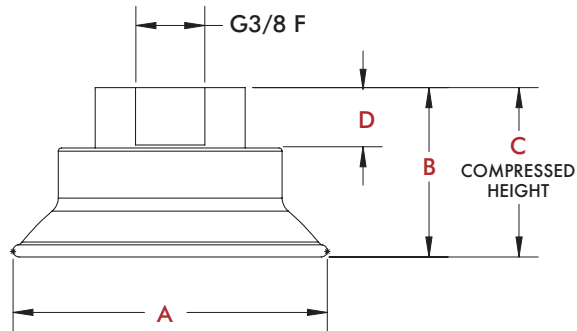
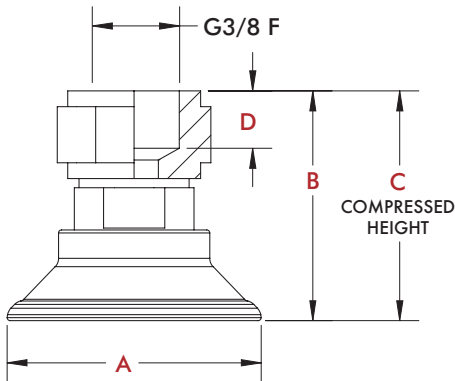
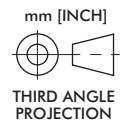
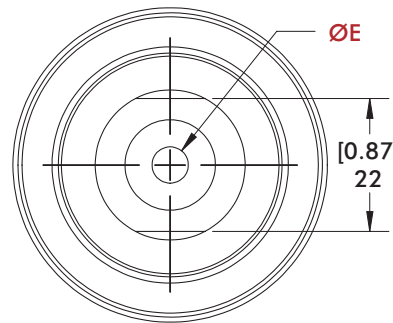
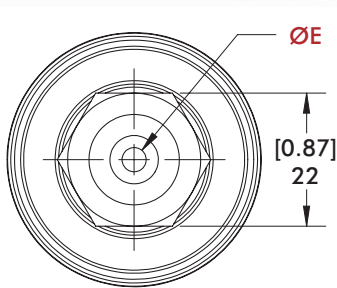
#### Temperature:

Resistant up to 250° C [482° F]  
(sheet metal temperature)

**Material:** Silicone free HT2

#### Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol



### MFF Dimensions

Model	A	B	C	D	E	Weight
30MFF	[1.34]	[1.42]	[1.30]	[0.35]	[0.16]	[1.64 oz]
	34	36	33	9	4	46.5 g
40MFF	[1.81]	[1.50]	[1.34]	[0.35]	[0.16]	[1.77 oz]
	46	38	34	9	4	50.1 g
50MFF	[2.20]	[1.10]	[0.91]	[0.59]	[0.24]	[1.35 oz]
	56	28	23	15	6	38.2 g
60MFF	[2.64]	[1.22]	[0.98]	[0.59]	[0.24]	[0.95 oz]
	67	31	25	15	6	27 g

Dimensions shown "mm [inch]"

### MFF Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
30MFF	[8.5]	[6.7]	[6.3]
	38	30	28
40MFF	[15.5]	[11.7]	[11.2]
	69	52	50
50MFF	[22.5]	[18.0]	[17.1]
	100	80	76
60MFF	[33.7]	[23.6]	[19.1]
	150	105	85

Holding capacities shown "N [lbf]"

### MFF Round Flat Ordering Information

#### Metric

Ø30mm	CPI-30MFF-B-HT
Ø40mm	CPI-40MFF-B-HT
Ø50mm	CPI-50MFF-B-HT
Ø60mm	CPI-60MFF-B-HT



# HOT FORMING VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

## Specifications:

### Temperature:

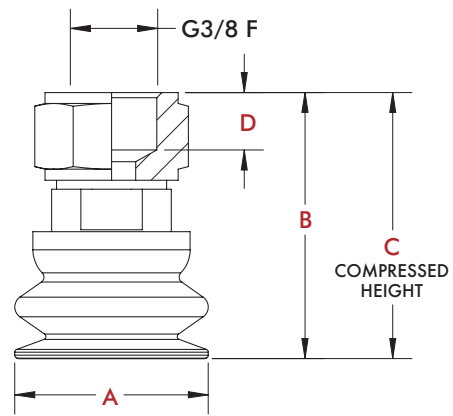
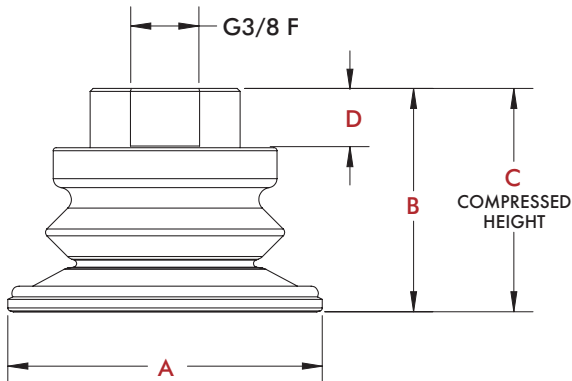
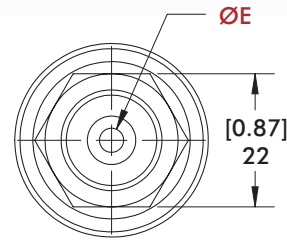
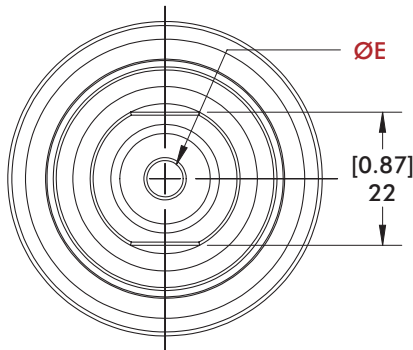
Resistant up to 250° C [482° F]  
(sheet metal temperature)

Material: Silicone free HT2

### Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol

## MTC Round Bellows



### MTC Dimensions

Model	A	B	C	D	E	Weight
22MTC	[0.87] 22	[1.61] 41	[1.39] 35.2	[0.35] 9.5	[0.14] 3.5	[1.54 oz] 43.6 g
30MTC	[1.34] 34	[1.73] 44	[1.38] 35	[0.35] 9	[0.16] 4	[1.74 oz] 49.3 g
40MTC	[1.77] 45	[1.73] 44	[1.34] 34	[0.35] 9	[0.16] 4	[1.79 oz] 50.8 g
50MTC	[2.20] 56	[1.46] 37	[1.00] 25.5	[0.59] 15	[0.24] 6	[1.40 oz] 39.6 g
60MTC	[2.64] 67	[1.63] 41.5	[1.06] 27	[0.59] 15	[0.24] 6	[1.83 oz] 51.8 g

Dimensions shown "mm [inch]"

### MTC Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
22MTC	[3.6] 16	[4.0] 18	[1.3] 6
30MTC	[4.9] 22	[6.7] 30	[2.9] 13
40MTC	[8.5] 38	[8.1] 36	[7.4] 33
50MTC	[11.9] 53	[12.4] 55	[11.7] 52
60MTC	[18.4] 82	[18.4] 82	[17.3] 77

Holding capacities shown "N [lbf]"

## MTC Round Bellows Ordering Information

### Metric

- Ø22mm..... CPI-22MTC-B-HT
- Ø30mm..... CPI-30MTC-B-HT
- Ø40mm..... CPI-40MTC-B-HT
- Ø50mm..... CPI-50MTC-B-HT
- Ø60mm..... CPI-60MTC-B-HT

# HOT FORMING VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

## MFF Oval Flat



### Specifications:

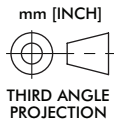
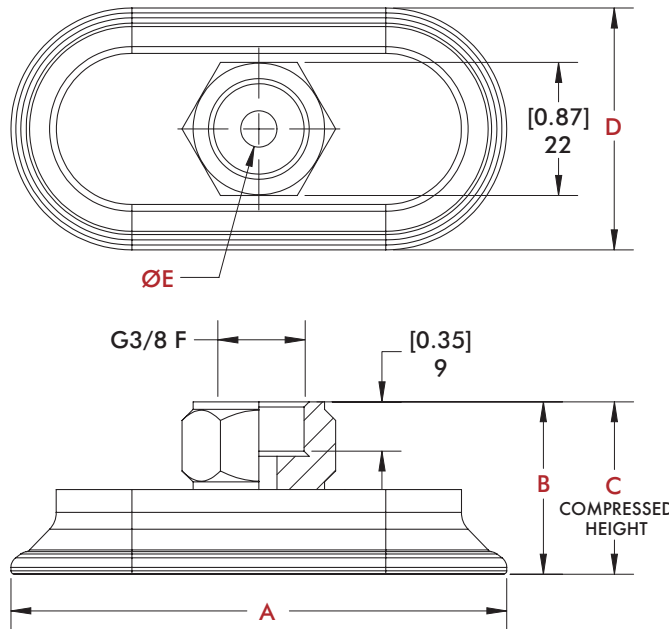
#### Temperature:

Resistant up to 250° C [482° F]  
(sheet metal temperature)

**Material:** Silicone free HT2

#### Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol



### MFF Dimensions

Model	A	B	C	D	E	Weight
6023MFF	[2.52] 64	[1.02] 26	[0.91] 23	[0.98] 25	[0.24] 6	[1.57 oz] 44.6 g
9030MFF	[3.70] 94	[1.06] 27	[0.94] 24	[1.34] 34	[0.24] 6	[2.42 oz] 68.5 g
8040MFF	[3.35] 85	[1.10] 28	[0.94] 24	[1.69] 43	[0.24] 6	[2.30 oz] 65.1 g
10050MFF	[4.17] 106	[1.22] 31	[1.02] 26	[2.13] 54	[0.31] 8	[3.68 oz] 104.2 g

Dimensions shown "mm [inch]"

### MFF Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
6023MFF	[12.8] 57	[8.3] 37	[7.4] 33
9030MFF	[27.4] 122	[21.6] 96	[14.4] 64
8040MFF	[31.5] 140	[24.7] 110	[22.5] 100
10050MFF	[48.8] 217	[40.7] 181	[27.2] 121

Holding capacities shown "N [lbf]"

### MFF Oval Flat Ordering Information

#### Metric

- Ø60x23mm ..... CPI-6023MFF-B-HT
- Ø90x30mm ..... CPI-9030MFF-B-HT
- Ø80x40mm ..... CPI-8040MFF-B-HT
- Ø100x50mm ..... CPI-10050MFF-B-HT

# HOT FORMING VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

## MAC Oval Bellows

### Specifications:

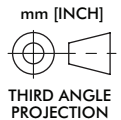
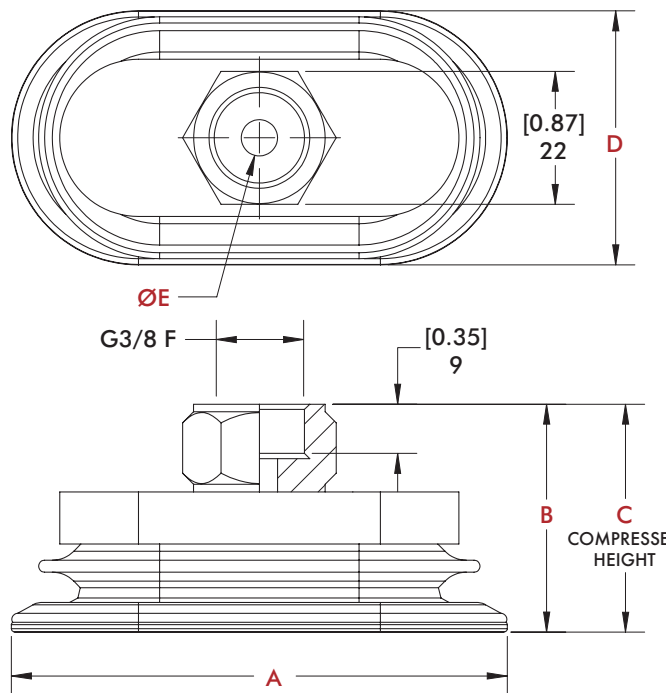
#### Temperature:

Resistant up to 250° C [482° F]  
(sheet metal temperature)

**Material:** Silicone free HT2

#### Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol



### MAC Dimensions

Model	A	B	C	D	E	Weight
6030MAC	[2.48]	[1.38]	[1.10]	[1.30]	[0.24]	[2.32 oz]
	63	35	28	33	6	65.9 g
8040MAC	[3.27]	[1.48]	[1.13]	[1.69]	[0.24]	[2.78 oz]
	83	37.7	28.7	43	6	78.7 g

Dimensions shown "mm [inch]"

### MAC Holding Capacity @ -0.6 bar vacuum

Model	Vert. Lift	Horz. Dry	Horz. Wet
6030MAC	[8.5]	[12.8]	[11.7]
	38	57	52
8040MAC	[14.6]	[22.5]	[21.3]
	65	100	95

Holding capacities shown "N [lbf]"

## MAC Oval Bellows Ordering Information

### Metric

Ø60x30mm..... CPI-6030MAC-B-HT

Ø80x40mm..... CPI-8040MAC-B-HT

# MICRO SERIES VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

## VC-F Round Flat



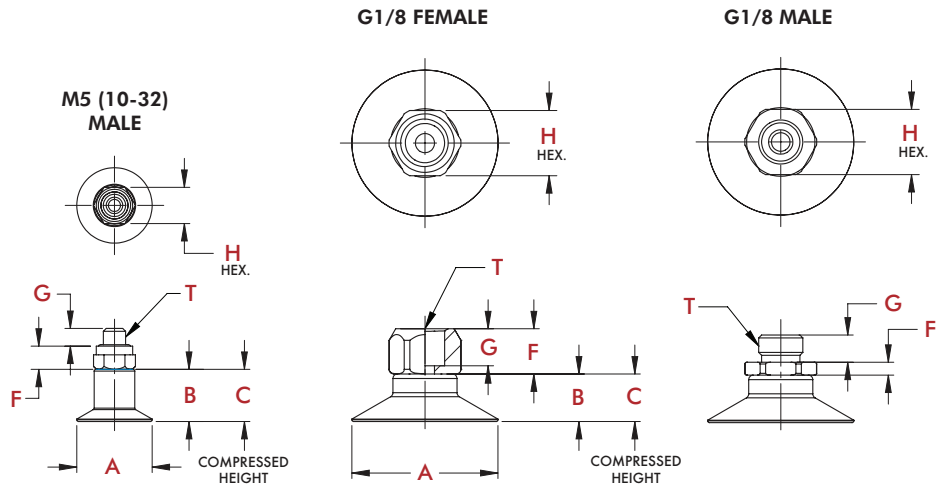
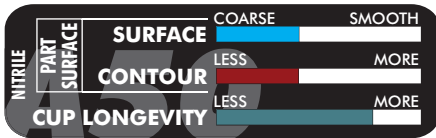
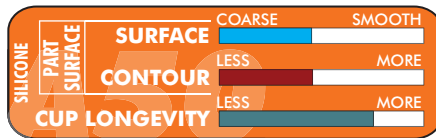
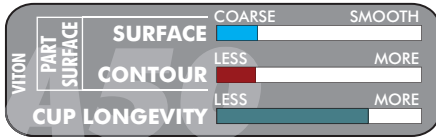
### Applications:

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

### Specifications:

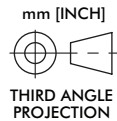
**Material Operating Temperature:**  
**Viton:** -40° to 450° F  
 [-40° to 232° C]  
**Silicone:** -100° to 400° F  
 [-73° to 204.4° C]  
**Nitrile:** -40° to 275° F  
 [-40° to 135° C]  
**Durometer:** A50

### ACU INDEX



(DR) = Durometer/Material

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



### VC-F Micro Fitting Threads

Thread (T)	(F)	(G)	(H)
10M (M5) (10-32 MALE)	5.1 [.20]	4.1 [.16]	7.9 [.31]
18M (G1/8) (MALE)	2.8 [.11]	5.8 [.23]	14.2 [.56]
18F (G1/8) (FEMALE)	9.9 [.39]	6.4 [.25]	14.2 [.56]

### VC-F Dimensions

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

### VC-F Round Flag Ordering Information

- Ø15mm..... VC-F15(DR)-(M)
- Ø20mm..... VC-F20(DR)-(M)
- Ø30mm..... VC-F30(DR)-(M)
- Ø40mm..... VC-F40(DR)-(M)
- Ø50mm..... VC-F50(DR)-(M)

(DR) = Durometer/Material

(M) = Mounts Available

- V** **S** **N**

- 10M** **18M** **18F**

Not Available in  
Ø15 and Ø20mm

Only Available in  
Ø15 and Ø20mm

# MICRO SERIES VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

## VC-B Micro Series Round Bellows

### 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]

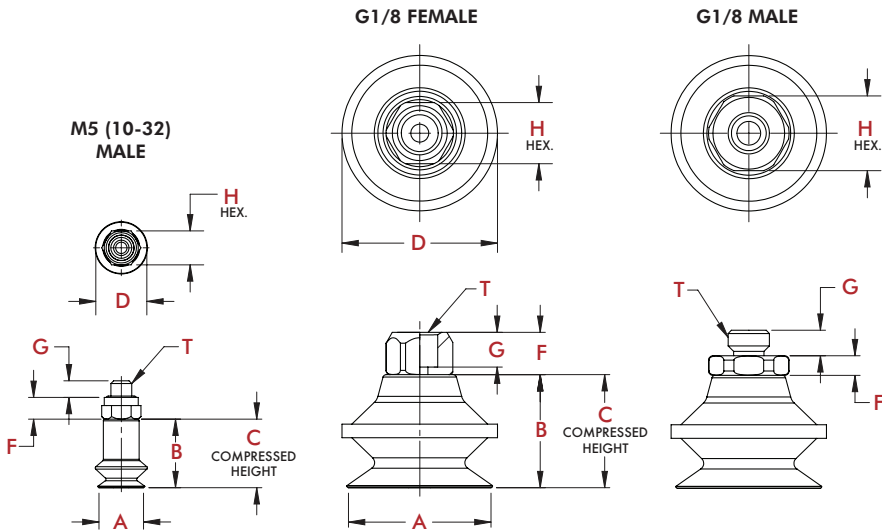
Silicone: -100° to 400° F

[-73° to 204.4° C]

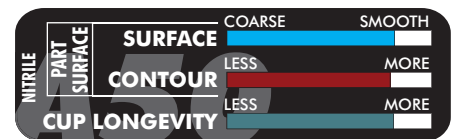
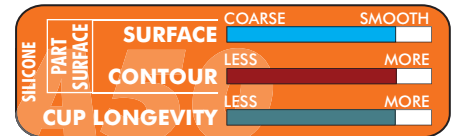
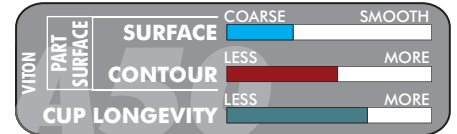
Nitrile: -40° to 275° F

[-40° to 135° C]

Durometer: A50



### ACU INDEX



### VC-B Micro Fitting Threads

Thread (T)	(F)	(G)	(H)
10M (M5) (10-32 MALE)	5.1 [.20]	4.1 [.16]	7.9 [.31]
18M (G1/8) (MALE)	2.8 [.11]	5.8 [.23]	14.2 [.56]
18F (G1/8) (FEMALE)	9.9 [.39]	6.4 [.25]	14.2 [.56]

(DR) = Durometer/Material

**V** Viton Hi-Temp Applications where silicon is not allowed

**S** Silicon Extremely hot or cold environments

**N** Nitrile General Purpose

### VC-B Dimensions

Model	A	B	C	D	Cup Wt	Load
VC-B05	5.6 [.22]	9.1 [.36]	7.6 [.30]	6.1 [.24]	5.8 g [.09 oz]	.04 kg [.10 lb]
VC-B10	10.9 [.43]	16.0 [.63]	11.4 [.45]	12.2 [.48]	3.4 g [.11 oz]	.39 kg [.87 lb]
VC-B15	16.0 [.63]	19.8 [.78]	13.2 [.52]	17.5 [.69]	3.7 g [.12 oz]	.57 kg [1.25 lb]
VC-B20	22.4 [.88]	17.5 [.69]	7.6 [.30]	23.9 [.94]	6.2 g [.20 oz]	1.02 kg [2.25 lb]
VC-B30	34.0 [1.34]	26.4 [1.04]	11.4 [.45]	36.3 [1.43]	11.5 g [.37 oz]	2.21 kg [4.88 lb]
VC-B40	42.9 [1.69]	27.4 [1.08]	12.4 [.49]	46.2 [1.82]	18.7 g [.60 oz]	3.97 kg [8.75 lb]
VC-B50	52.8 [2.08]	34.5 [1.36]	14.5 [.57]	59.4 [2.34]	30.5 g [.98 oz]	6.63 kg [14.6 lb]

### VC-B Micro Series Round Multi-Bellows Ordering Information

- Ø05mm..... VC-B05(DR)-(M)
- Ø10mm..... VC-B10(DR)-(M)
- Ø15mm..... VC-B15(DR)-(M)
- Ø20mm..... VC-B20(DR)-(M)
- Ø30mm..... VC-B30(DR)-(M)
- Ø40mm..... VC-B40(DR)-(M)
- Ø50mm..... VC-B50(DR)-(M)

(DR) = Durometer/Material

(M) = Mounts Available

**V** **S** **N**

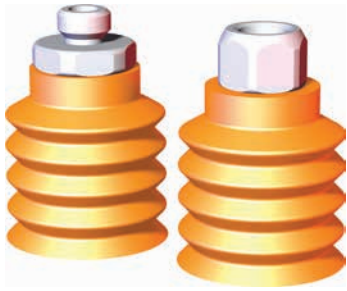
**10M** **18M** **18F**

Only Available in Ø5, Ø10, Ø15, Ø20mm

# MICRO SERIES VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

## VC-BM Micro Series Round Multi-Bellows



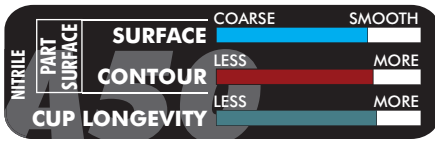
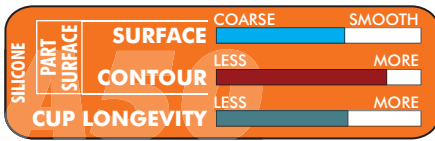
### Applications:

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

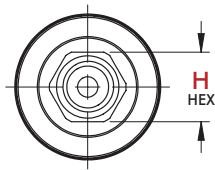
### Specifications:

**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

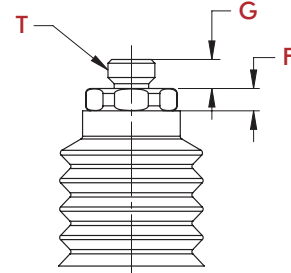
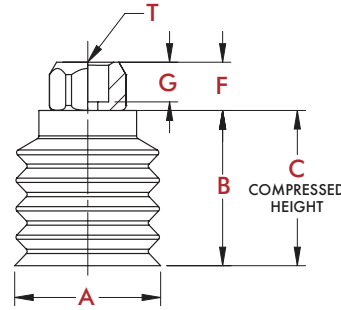
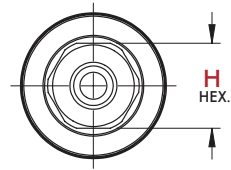
### ACU INDEX



G1/8 FEMALE



G1/8 MALE



(DR) = Durometer/Material

**S** Silicon Extremely hot or cold environments

**N** Nitrile General Purpose

## VC-BM Micro Fitting Threads

Thread (T)	(F)	(G)	(H)
10M (M5) (10-32 MALE)	5.1 [.20]	4.1 [.16]	7.9 [.31]
18M (G1/8) (MALE)	2.8 [.11]	5.8 [.23]	14.2 [.56]
18F (G1/8) (FEMALE)	9.9 [.39]	6.4 [.25]	14.2 [.56]

## VC-BM Dimensions

Model	A	B	C	Cup Wt	Load
VC-BM20	20.1 [.79]	21.9 [.86]	8.9 [.35]	5.3 g [17 oz]	.68 kg [1.50 lb]
VC-BM30	30.0 [1.18]	30.7 [1.21]	10.7 [.42]	10.3 g [.33 oz]	1.64 kg [3.63 lb]
VC-BM40	39.8 [1.57]	40.9 [1.61]	12.9 [.51]	19.6 g [.63 oz]	2.21 kg [4.88 lb]
VC-BM50	50.0 [1.97]	51.1 [2.01]	23.1 [.91]	32.7 g [1.05 oz]	4.37 kg [9.63 lb]

## VC-BM Micro Series Round Multi-Bellows Ordering Information

- Ø20mm..... VC-BM20(DR)-(M)
- Ø30mm..... VC-BM30(DR)-(M)
- Ø40mm..... VC-BM40(DR)-(M)
- Ø50mm..... VC-BM50(DR)-(M)

(DR) = Durometer/Material

(M) = Mounts Available



Only Available in Ø20mm

### TPLP Mag-Lift Part Lifting Magnets

#### 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.

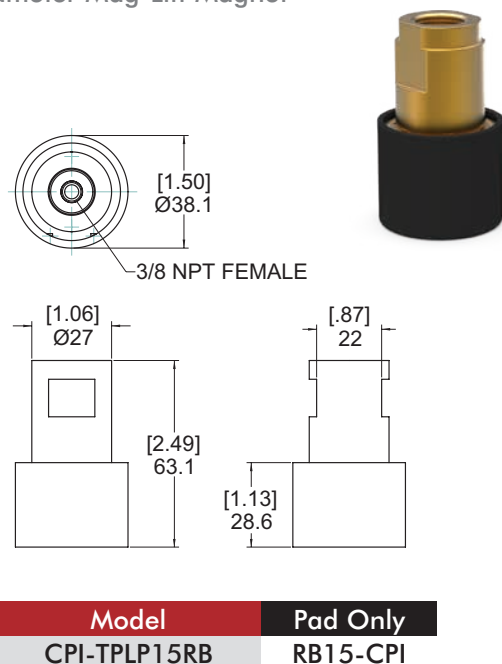
#### Benefits:

- NPT mount allows retrofit to existing assemblies.

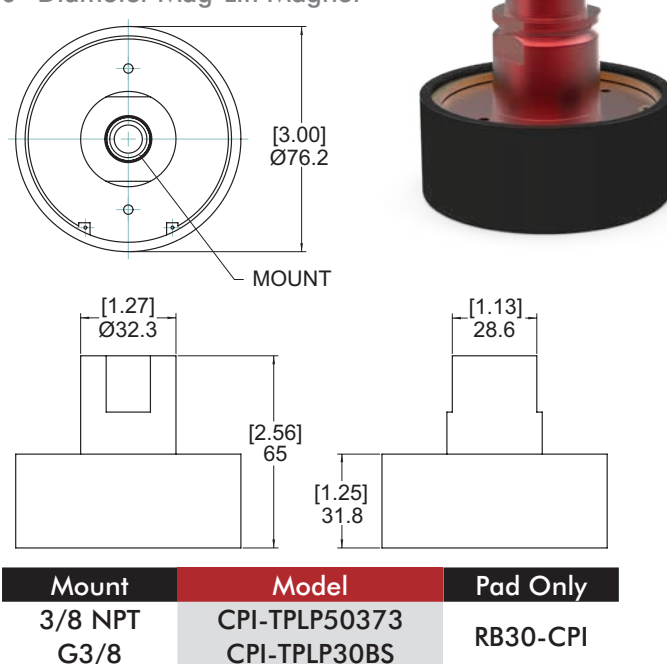
#### Specifications:

**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)

#### 1.50" Diameter Mag-Lift Magnet



#### 3.00" Diameter Mag-Lift Magnet



**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.

#### TPLP 1.50" Diameter Mag-Lift Magnet - CPI-TPLP15RB - Capacities

Gage Of Steel (Ferrous Only)	26 GA (0.018")	22 GA (0.030")	16 GA (0.050")	12 GA (0.100")	3/16" (0.187")	Weight
With Pad	3.18 kg [7.0 lb]	4.08 kg [9.0 lb]	4.54 kg [10.0 lb]	4.54 kg [10.0 lb]	4.54 kg [10.0 lb]	136g [5 oz]
Without Pad	4.54 kg [10.0 lb]	6.35 kg [14.0 lb]	7.26 kg [16.0 lb]	[7.71 kg] 17.0 lb	7.71 kg [17.0 lb]	136g [5 oz]

#### TPLP 3.00" Diameter Mag-Lift Magnet - CPI-TPLP50373 - Capacities

Gage Of Steel (Ferrous Only)	26 GA (0.018")	22 GA (0.030")	16 GA (0.050")	12 GA (0.100")	3/16" (0.187")	Weight
With Pad	8.62 kg [19.0 lb]	13.61 kg [30.0 lb]	19.96 kg [44.0 lb]	19.96 kg [44.0 lb]	20.87 kg [46.0 lb]	363g [13 oz]
Without Pad	9.53 kg [21.0 lb]	14.97 kg [33.0 lb]	26.76 kg [59.0 lb]	27.22 kg [60.0 lb]	29.03 kg [64.0 lb]	363g [13 oz]

**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.

# ECOCUP SERIES

Vacuum Products | Product Overview | Technical Specifications | Dimensions

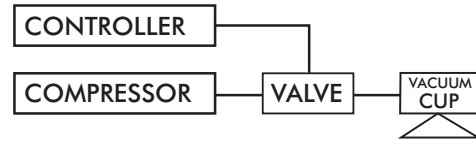
## EcoCup™ creates vacuum without AIR!

Great for pick-and-place applications of flat, rigid, non-porous parts including: plastic, glass, solar panels, and electronics, as well as other consumer goods with smooth, flat surfaces.

The EcoCup™ features:

- Light-switch operation
- Ultra-fast actuation
- Noise-free operation
- Easy installation and setup
- Reduced maintenance costs
- Easy optional mounting to Scara robots
- Eliminated risk of air-borne contaminants

The **OLD** way  
with a Typical Pneumatic Setup

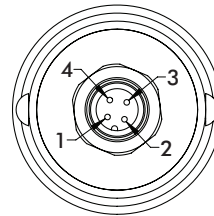


The **NEW** way  
Using the new EcoCup™

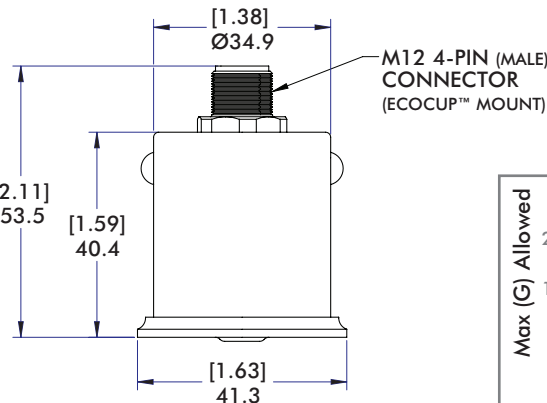


**No fittings,  
no valves, no hoses,  
no compressor, and  
absolutely no AIR!**

### EcoCup™ EC40 Electric Vacuum Cup Assembly

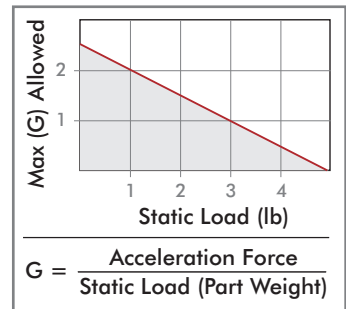


M12 4-PIN (MALE)  
CONNECTOR FACE VIEW  
1: NOT USED  
2: NOT USED  
3: -0 VDC  
4: +24 VDC



Covered under one or more U.S./International Patents

Specifications	VC-EC40-45N
Actuation Time	25 ms
Temperature Range	5° ~ 60°C [41° ~ 140°F]
Duty Cycle	50% (½ On, ½ Off)
Voltage	24 VDC
Current	0.5 Amp
Weight	0.12 kg [0.25 lb]
Cup Material	45 Durometer Nitrile



### EcoCup™ EC40 Electric Vacuum Cup - Operation

Holding Capacity	VC-EC40-45N
Recommended Load	<0.45kg [1.0 lb]

Loads from 0.45kg [1.0 lb] up to 1.81kg [4.0 lb] max. may be used with longer movement times. (See chart in drawing area for greater detail).

#### Operating Instructions:

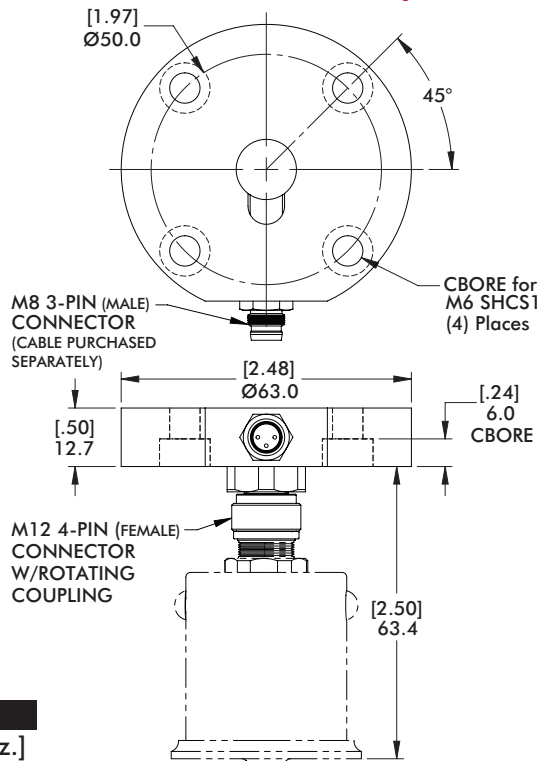
1. Set cup on smooth, flat surface of part.
2. Apply 24VDC to Pins 3 and 4 on M12 connector. (Center of cup lifts, creating vacuum)
3. Release voltage and part is released.



# ECOcup SERIES

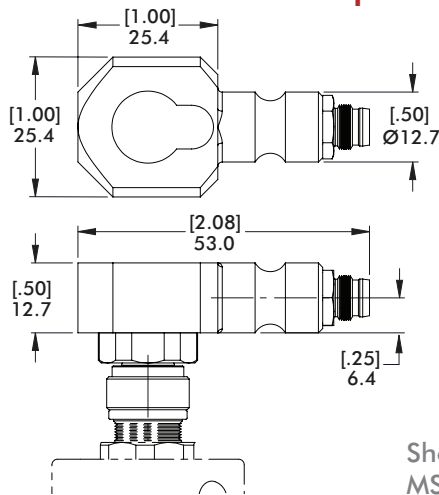
Vacuum Products | Dimensions | Technical Specifications

## EcoCup™ EC40 Electric Vacuum Cup Assembly



Model	Weight
VC-EC40-SRM50	111g [3.9 oz.]

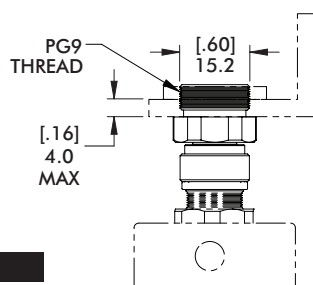
## EcoCup™ EC40 Optional Apple Core Mounting



Model	Weight
VC-EC40-ACM50	40g [1.4 oz.]

Shown with DESTACO MSA Series Swivel Arm

## EcoCup™ EC40 M12 4-Pin Connector with Rotating Coupling (Contact DESTACO for Custom Solutions)



Model	Weight
Turck #FKM 4.4-0.5	14g [0.5 oz.]

Shown with custom plate for array mounting



# ARV AND VSA SERIES VENTURIES

## Vacuum Products | Features and Specifications

### ARV® Series Auto-Release Venturi Cup Mount

#### Requiring (1) air line, (1) valve:

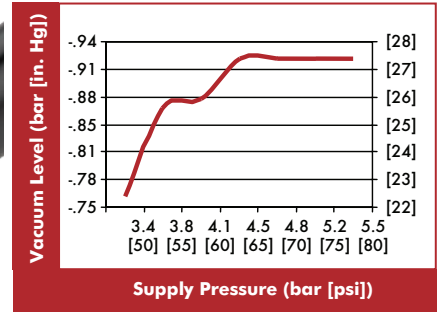
Offers integrated automatic quick panel release and exhaust silencer in one part. Mounting options include right or left hand apple core mounting or no apple core mount for use with DESTACO's spring cup mounts.

The ARV® Series is also available in a block style for remote mounting and each mount can be ordered with Imperial or Metric ports.



Covered under one or more U.S./International Patents

#### ARV® Performance:



#### 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

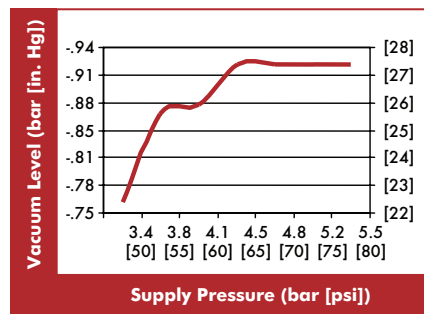
### VSA Series Venturi Cup Mount



Blow-off typically requires two air lines and multiple valves. The VSA series offers a low-profile version as shown. Additional options include silencer and sensor port options. Mounting threads can also be ordered in Imperial or Metric ports.

We also offers PA Series cup mounts.

#### VSA Performance:



#### 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 ft<sup>3</sup>]

(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 SERIES VENTURIES

Vacuum Products | Dimensions | Ordering Information



Left Hand Apple Core  
CPI-VSA-ARVL-750-(X)  
114g [0.25lb]



Right Hand Apple Core  
CPI-VSA-ARVR-750-(X)  
114g [0.25lb]



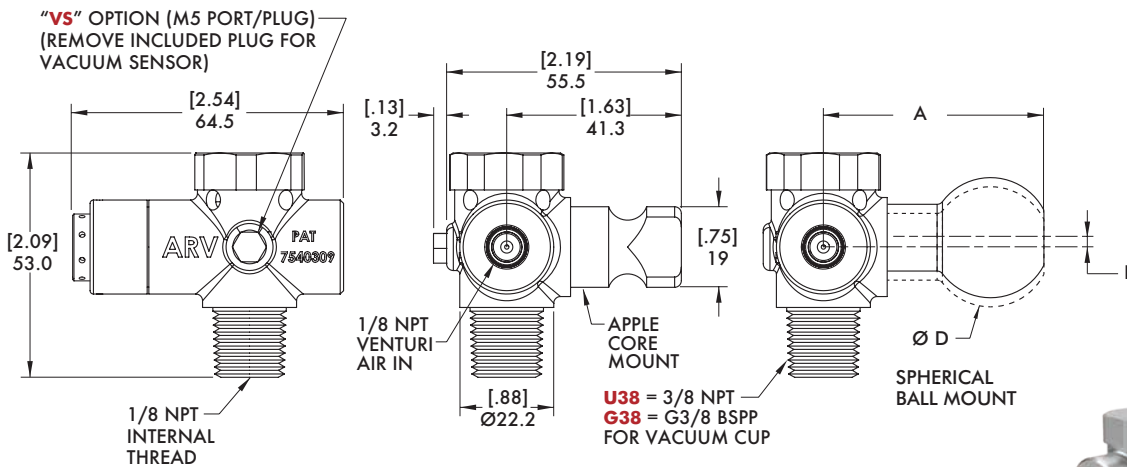
Without Apple Core  
CPI-VSA-ARV-000-(X)  
86g [0.19lb]



RH/LH Spherical Ball  
CPI-VSA-ARV(R/L)-B112-(X)  
CPI-VSA-ARV(R/L)-B32-(X)



(X)  
Mounting Thread  
U38 = 3/8" NPT Male  
G38 = 3/8" G Male



Vacuum Sensor Option  
Add "-VS" to end of "ARV" order code



Covered under one or more U.S./International Patents

Model Number	A	B	ØD	Weight
CPI-VSA-ARV(R/L)-B112-(X)	[1.85] 47.1	0	[1.13] 28.5	[0.28 lb] 126g
CPI-VSA-ARV(R/L)-B32-(X)	[1.93] 49	[0.12] 3.2	[1.26] 32	[0.30 lb] 134g

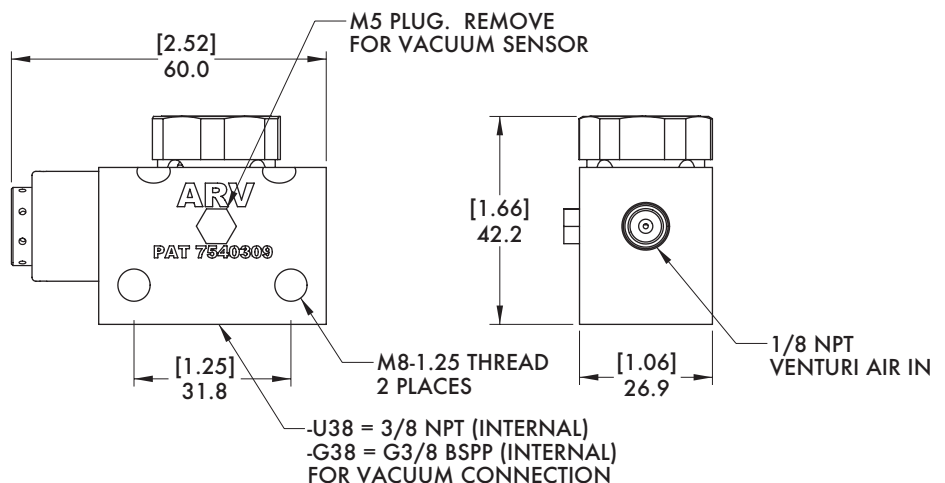
B112-01  
28.58mm ball only  
B112-32-01  
32mm ball only

## Venturi Style Vacuum Generator Cup Mounts ARV® Block Style Dimensions and Ordering Information



Block Style  
CPI-VSA-ARVR-312-(X)  
(X) = Vacuum Port Thread  
U38 = 3/8" NPT Female  
G38 = 3/8" G Female

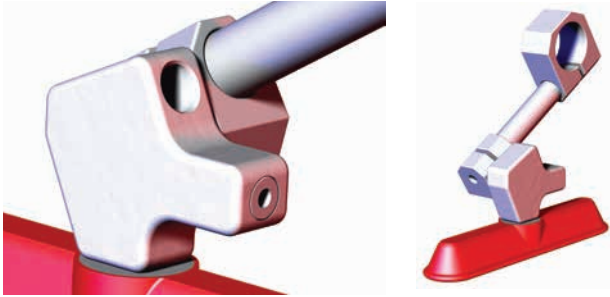
Weight  
104g [0.23lb]



# MICRO TOOLING VENTURI

Vacuum Products | Dimensions | Technical Specifications

## VSA 500 Series MicroTool Apple Core

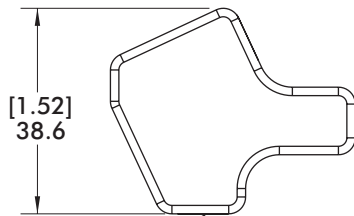
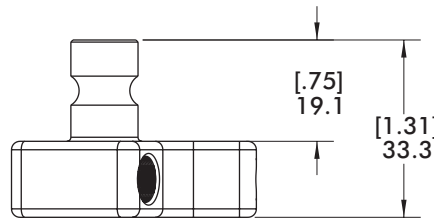
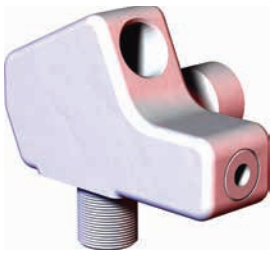


### Features:

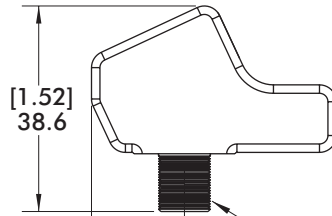
- MicroTool sized venturi.
- 1/8 NPT, 1/8 G Ports.

### Benefits:

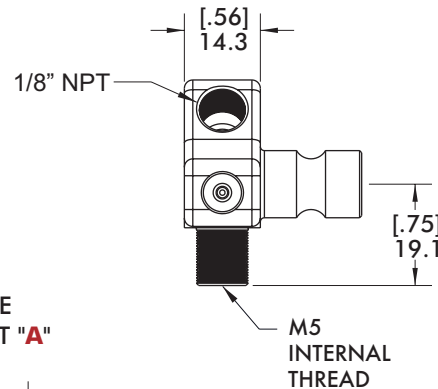
- Small and lightweight.
- Convenient mounts for most small vacuum cups.



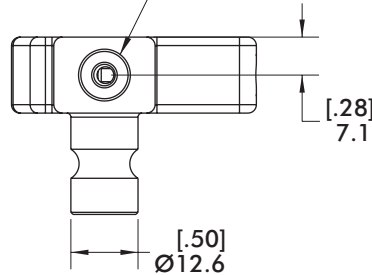
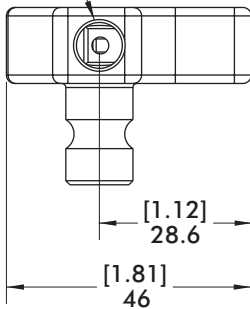
FEMALE  
PORT "A"



MALE  
PORT "A"





M5  
INTERNAL  
THREAD



Weight  
57g [2 oz.]

### 500 Series Venturi MicroTool - CPI-VSA-500-"A"

Description	Port A
 Female 1/8" NPT to Female 1/8" NPT	F18
 Female 1/8" NPT to Male 1/8" NPT	M18

Covered under one or more U.S./International Patents

# VSA SERIES VENTURIES

Vacuum Products | Dimensions | Technical Specifications

## VSA Low-Profile 750/19 Series Apple-Core with Blow-Off

### Features:

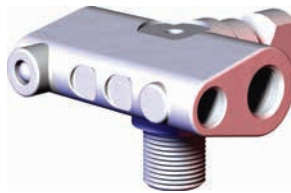
- Low profile construction.
- Integrated blow-off.
- Optional vacuum sensing port.
- Optional exhaust silencer.
- Imperial or Metric ports.

### Benefits:

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



Low-Profile 750/19 w/  
Blow Off No Options  
CPI-VSA-(X)-BO-LP



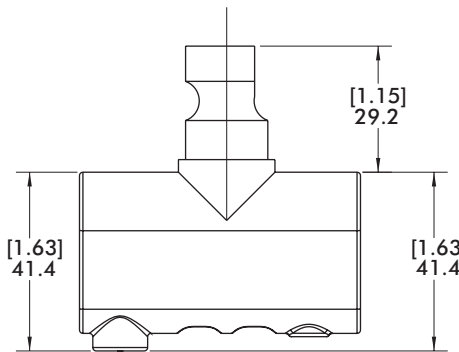
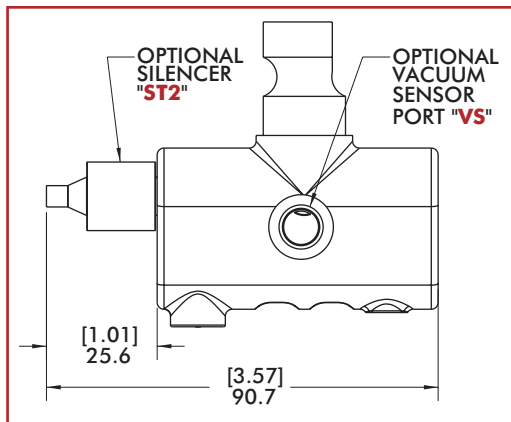
Low-Profile 750/19 with  
Blow Off with Detector Option  
CPI-VSA-(X)-BO-LP-DET



Low-Profile 750/19 with  
Blow Off with "VS" Option  
CPI-VSA-(X)-BO-LP-VS



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

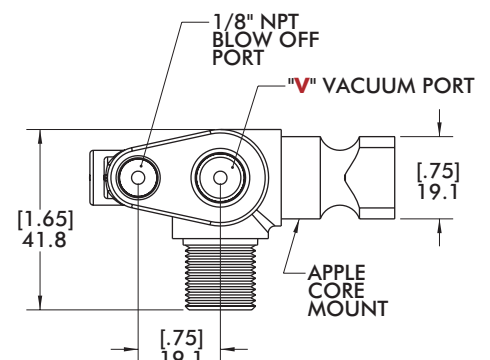
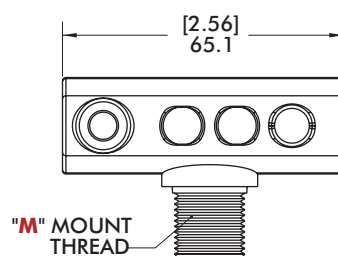
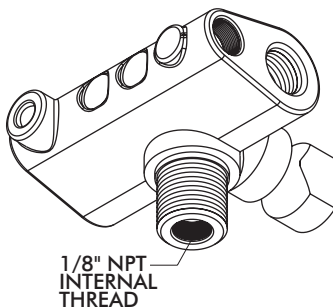


### VS/DET Thread

DET = M5  
VS = 1/8 NPT

### Weight

170g [6 oz.]



### Low Profile 750/19 Series w/blow-off - CPI-VSA-(X)-BO-LP

Version	Mount Thread "M"	Vacuum Port "V"	(X)
Metric	3/8" G Male	1/4" G	19
Imperial	3/8" NPT Male	1/4" NPT	750

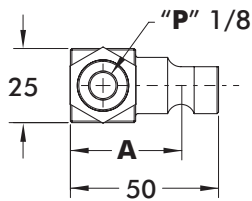
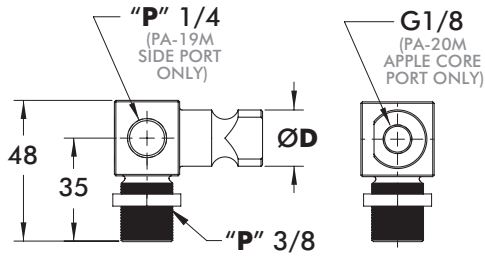
# ACCELERATE® PORT ONLY ADAPTORS

Vacuum Products | Dimensions | Technical Specifications



## PA Series

### Apple Core Mount



PA-19M



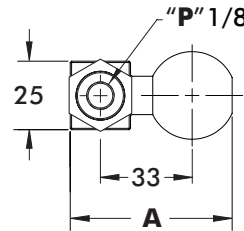
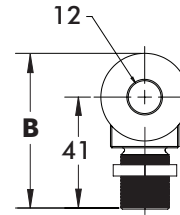
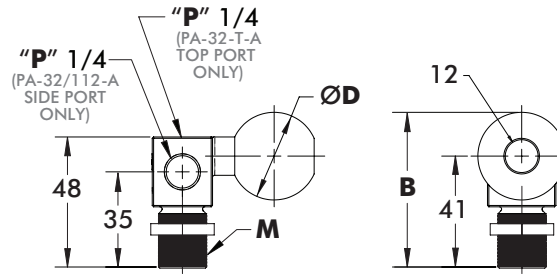
PA-20M

Material: Aluminum  
Load: 150Nm

Weight includes locking nut\* and plug (not shown)  
\*Except U38 models

Model Number	A	ØD	P	Weight
PA-19M-G38-A	[1.46] 37	[0.75] 19	G	[0.17 lb] 77g
PA-19M-U38-A			NPT	[0.15 lb] 68g
PA-20M-G38-AC-A	[1.34] 34	[0.79] 20	G	[0.16 lb] 71g

### Ball Mount



PA-B32-G38-T-A

Material: Aluminum  
Load: 150Nm

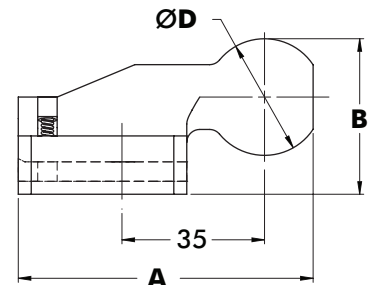
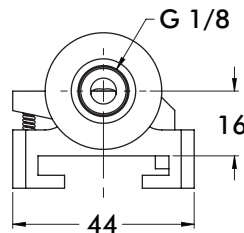
Weight includes locking nut\* and plug (not shown) \*Except U38 models

Model Number	A	B	ØD	M	P	Weight
PA-B32-G38-A					G	[0.23 lb] 103g
PA-B32-G38-T-A	[2.32] 59	[2.24] 57	[1.26] 32	G3/8	G	[0.21 lb] 96g
PA-B32-U38-A				3/8 NPT	NPT	[0.21 lb] 94g
PA-B32-G14-A				G1/4	G	[0.21 lb] 95g
PA-B112-G38-A	[2.24] 57	[2.17] 55	[1.12] 28	G3/8	G	[0.20 lb] 89g
PA-B112-U38-A				3/8 NPT	NPT	[0.18 lb] 80g

## PA 28mm - 32mm Ball for C-Mount



Material: Aluminum  
Load: 150Nm

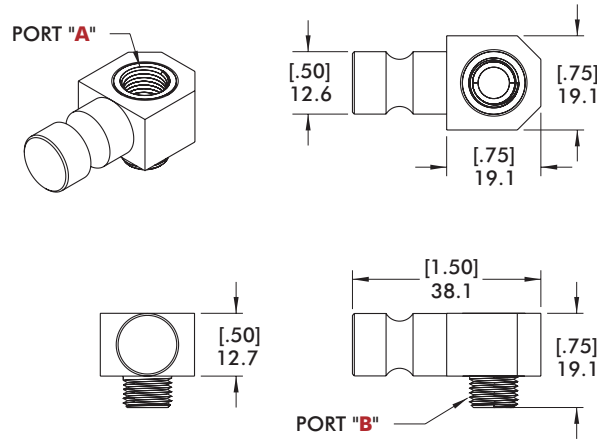


Model Number	A	B	ØD	Weight
CPI-PA-B112-CM	[2.84] 72.1	[1.50] 38.1	[1.13] 28.5	[0.23 lb] 106g
CPI-PA-B32-CM	[2.98] 75.7	[1.69] 42.9	[1.26] 32	[0.27 lb] 122g

# MICRO TOOLING PORT ONLY ADAPTER

Vacuum Products | Dimensions | Technical Specifications

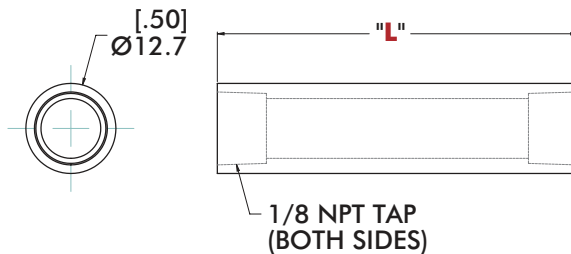
PA 500 Series



## CPI-PA-500-"A"-"B" Ordering Information

Description		A	B	Weight
	Female 1/8" NPT/Female 1/8" NPT	F18	F18	23g [0.8 oz.]
	Female 1/8" G/Female 1/8" G	FG18	FG18	
	Female M5/Female M5	FM5	FM5	
	Female 1/8" NPT/Male 1/8" NPT	F18	M18	
	Female 1/8" G/Male 1/8" G	FG18	MG18	
	Female M5/Male M5	FM5	MM5	

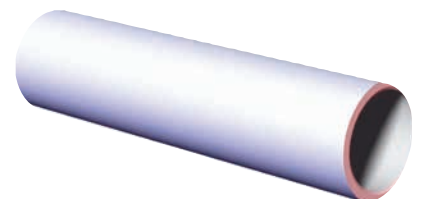
## PAT 1/8 NPT Vacuum Extension



### "L"

#### Standard Lengths

- 02 = 2.00"
- 03 = 3.00"
- 04 = 4.00"
- 05 = 5.00"
- 06 = 6.00"

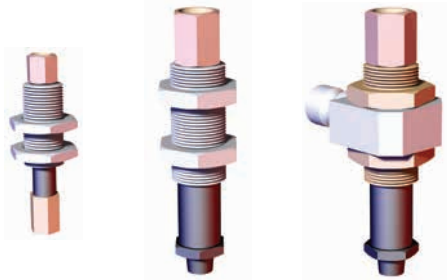


Model Number	Weight
CPI-PAT-50T-"L"-U18	[0.13 lb/ft] 193.0 g/m

# SPRING-LOADED CUP MOUNTS

Vacuum Products | Dimensions | Technical Specifications

## LC Bulk Head Style Micro Series Level Compensators



**Specifications:**  
Material: Aluminum

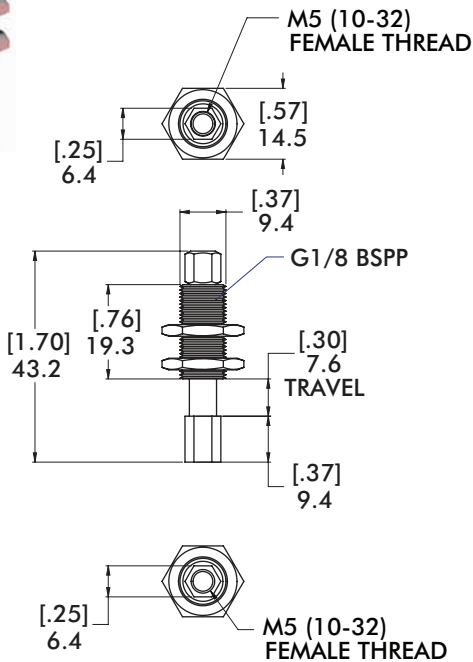
**Features:**

- M5 or G mounting threads and vacuum ports.

Note: To be used in vertical orientations only.



0.30" TRAVEL  
ORDERING INFORMATION  
CPI-LC10

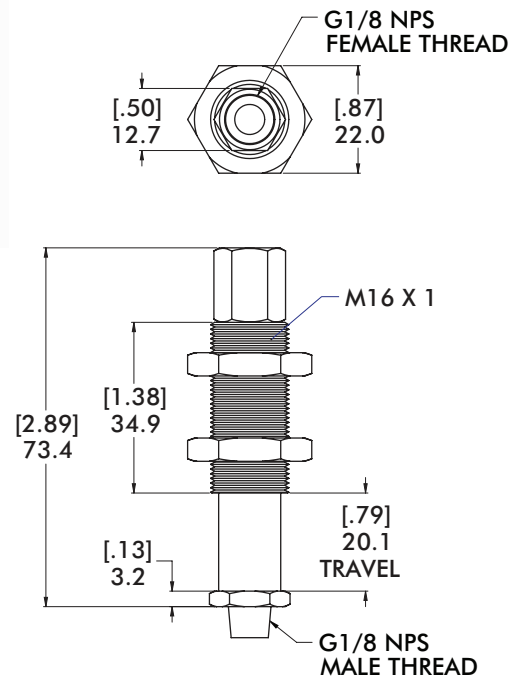


Weight

5.7 g [0.2 oz.]



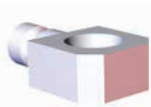
0.75" TRAVEL  
ORDERING INFORMATION  
CPI-LC18



Weight

28.3 g [1.0 oz.]

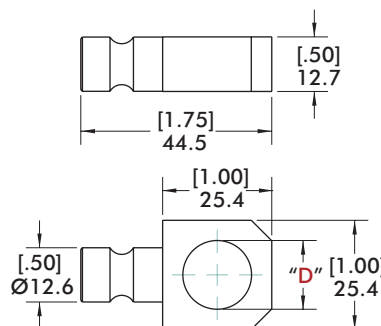
## LCM Series Mount



CPI-LCM-10-"D"

Weight

23 g [0.8 oz.]



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



# SPRING-LOADED CUP MOUNTS

Vacuum Products | Dimensions | Technical Specifications

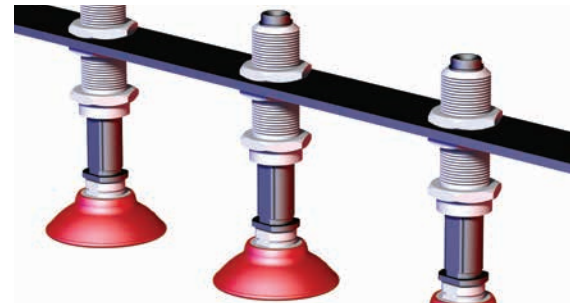
## Features:

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

## Specifications:

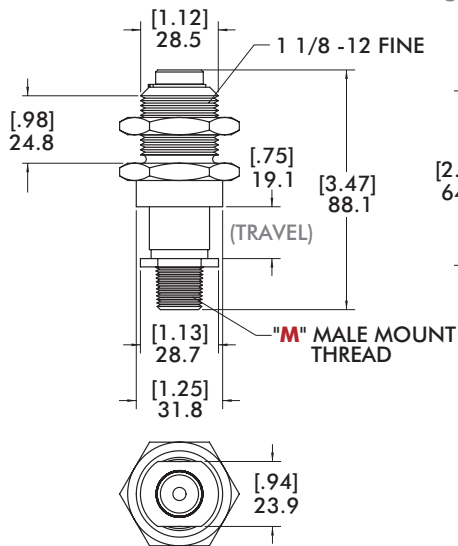
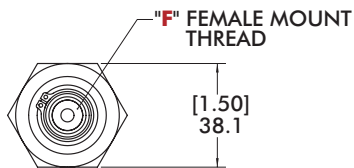
Material: Aluminum

## RCM Bulkhead Style Standard Travel

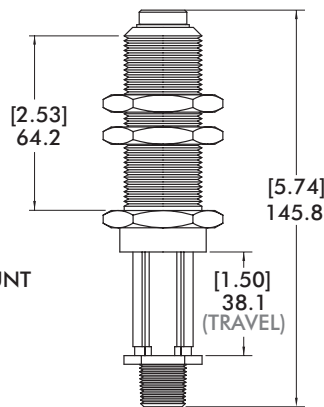


Note: To be used in vertical orientations only.

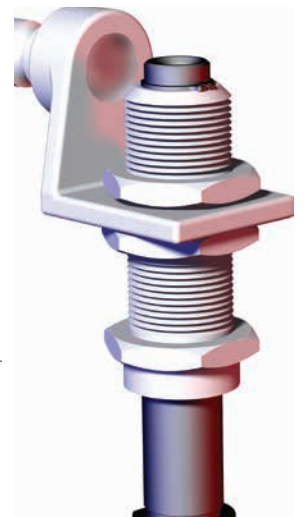
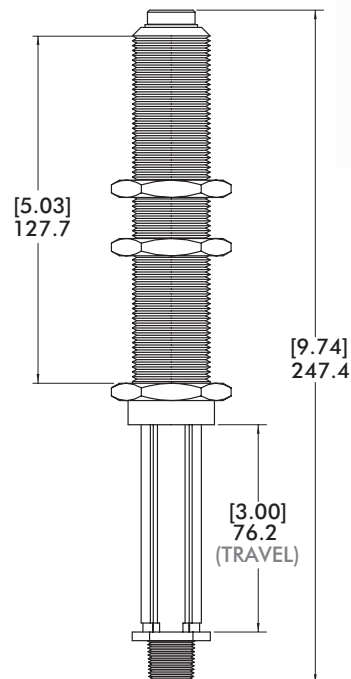
### 0.75" TRAVEL ORDERING INFORMATION CPI-RCM-30



### 1.50" TRAVEL ORDERING INFORMATION CPI-RCM-150-U14-NR



### 3.00" TRAVEL ORDERING INFORMATION CPI-RCM-300-U14-NR



CPI-RCM-150-U14-NR  
Shown with CPI-SAP-30

## Bulkhead Mount - CPI-RCM-XXX

Version	Mount Thread M	Vacuum Port F
Imperial	3/8" NPT Male	1/4" NPT

Weight
.75" Travel = 142g [5 oz]
1.50" Travel = 227g [8 oz]
3.00" Travel = 340g [12 oz]

# SPRING-LOADED CUP MOUNTS

Vacuum Products | Dimensions | Technical Specifications | Ordering Information

## SCM Apple-Core Style



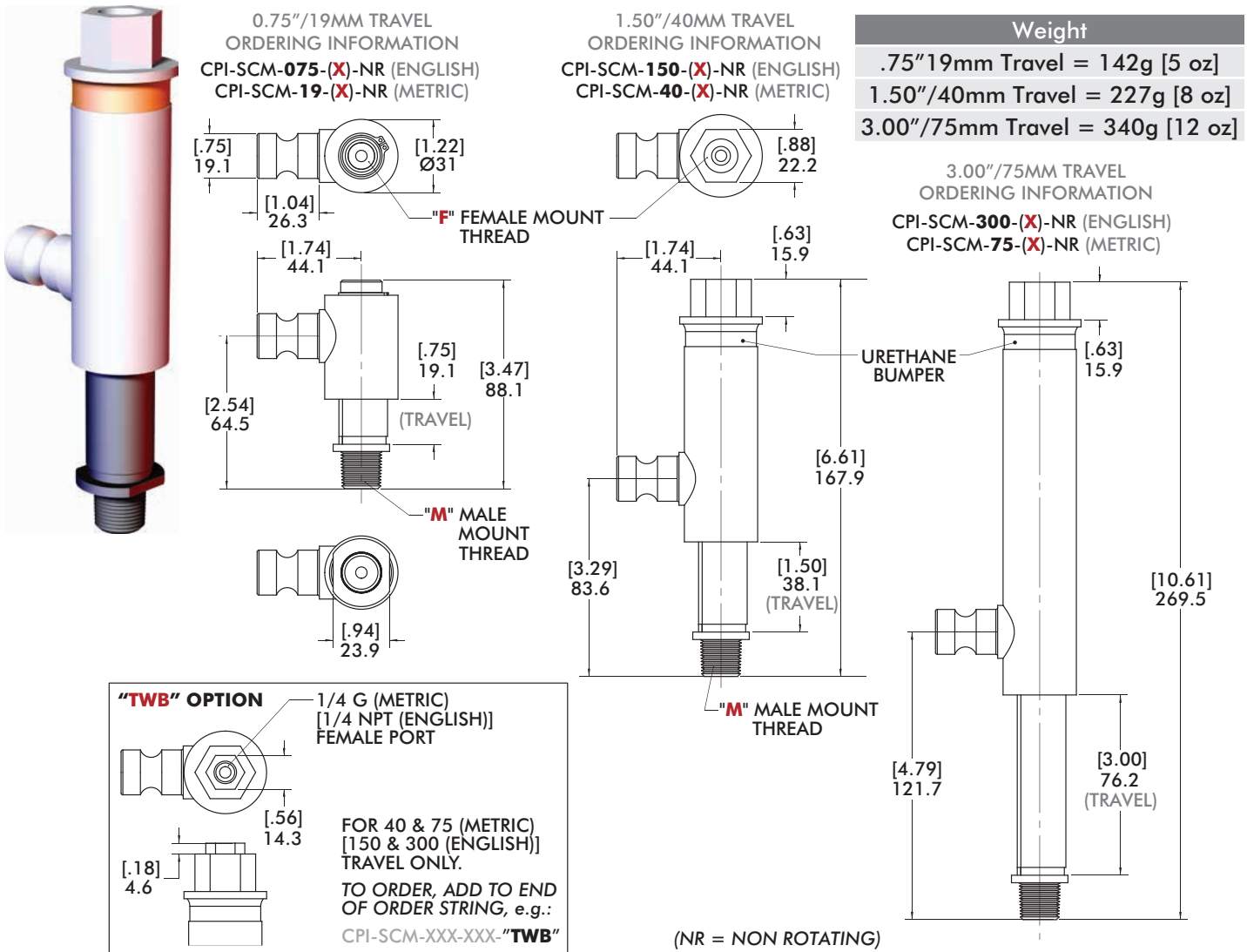
### Specifications:

**Material:** Aluminum 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.

**Note:** To be used in vertical orientations only.



### CPI-SCM-(19/075)-(X)-NR Ports

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 Ports

Version	M	F	(X)
Metric	3/8" G	3/8" G	G14
Imperial	3/8" NPT	3/8" NPT	U14

# SPRING-LOADED CUP MOUNTS

Vacuum Products | Features and Options

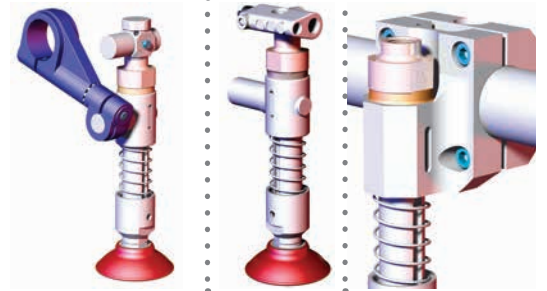
## Features:

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

## Benefits:

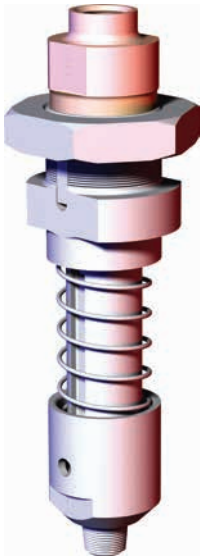
- Urethane shock absorber reduces "pick-up" shock.
- Extensive use of polymers reduce weight and cost.
- Extended travel cup mounts can be reconfigured or rebuilt.
- Smooth operation, reduced wear.

## TCL T-Clamp Ø1.00" (in)

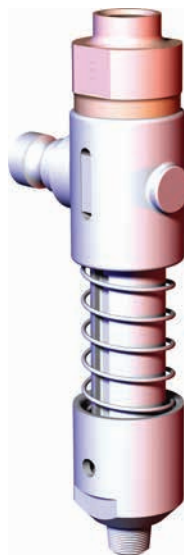


Note: To be used in vertical orientations only.

Ø1.25" Bulkhead Style  
CPI-SCM(B)-"T"



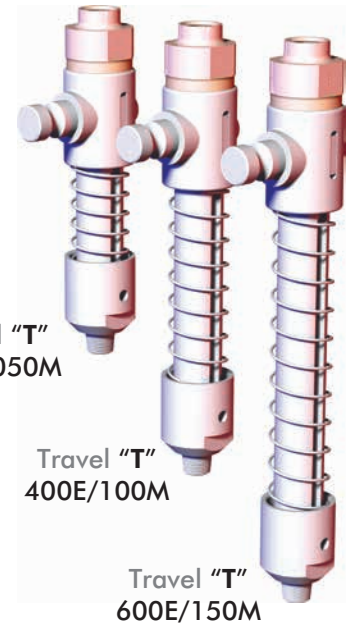
Ø0.75" Apple Core Style  
CPI-SCM(A)-"T"



Ø1.00"/25MM  
Extension Style  
CPI-SCM(10/25)-"T"



Travel Length CPI-SCM(X)-"T"

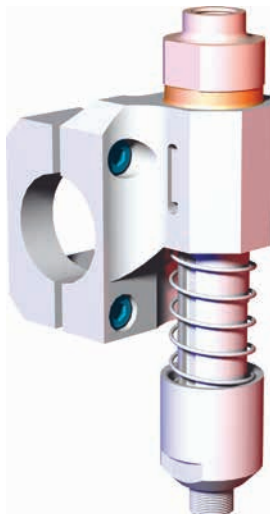


Travel "T"  
200E/050M

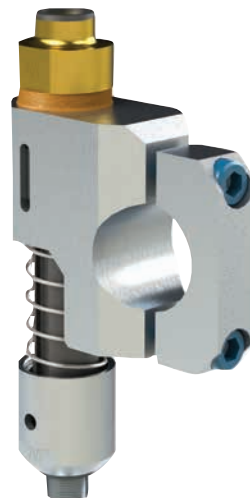
Travel "T"  
400E/100M

Travel "T"  
600E/150M

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



Ø1.50"/40MM  
Single Strap Tube Mount  
CPI-SCM(S)-"D"- "T"- "O"



Ø1.50"/45MM  
Single Strap Tube Mount  
CPI-SCMS-45B-"T"

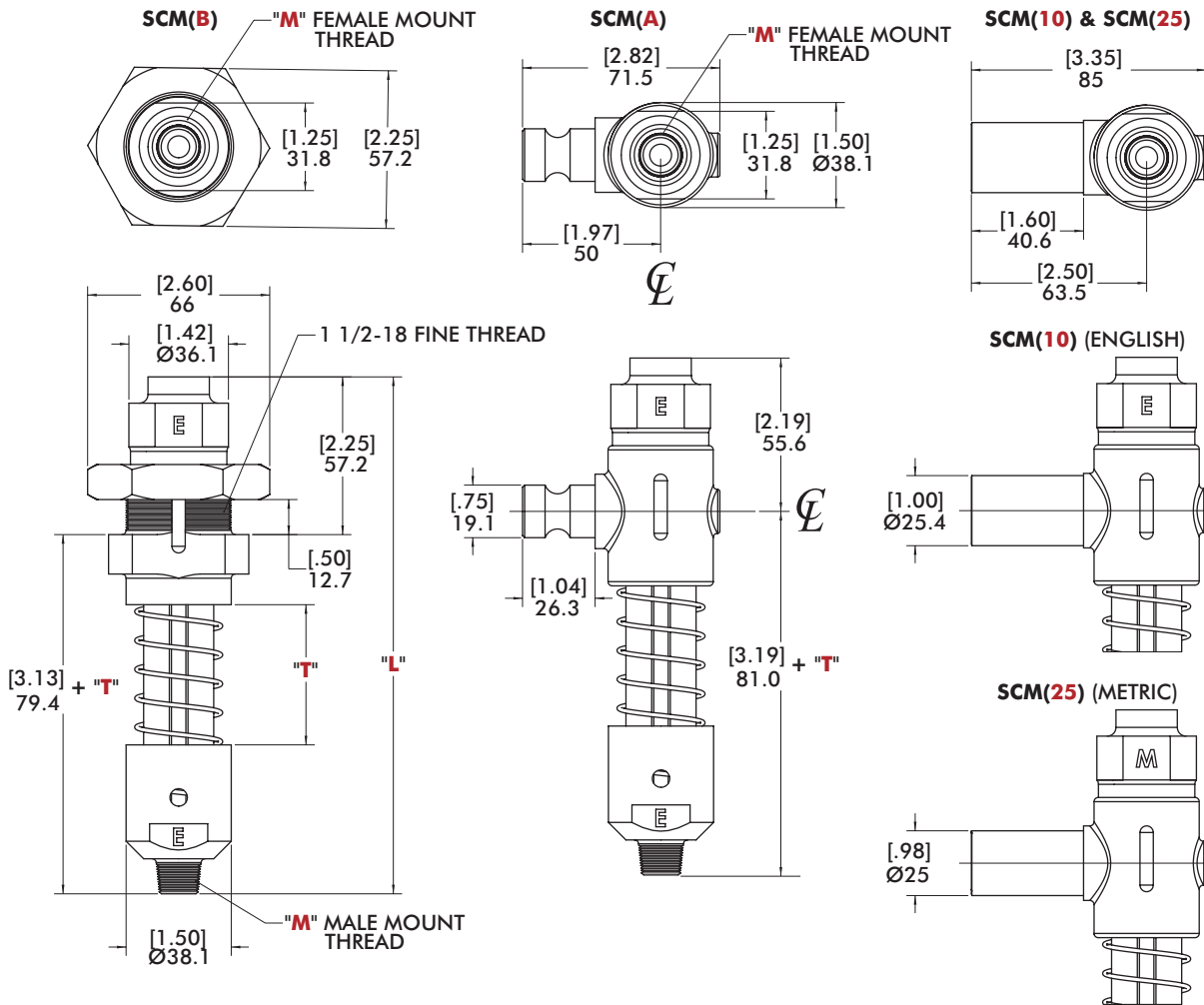


# SPRING LOADED VACUUM CUP MOUNTS

Vacuum Products | Extended Travel Dimensions

## SCM Bulkhead/Apple Core/Extension Style

Note: To be used in vertical orientations only.



### SCM Travel and Length - CPI-SCM(X)-"T"

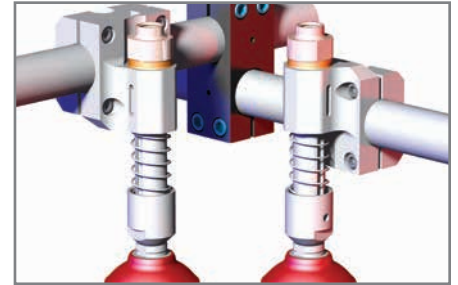
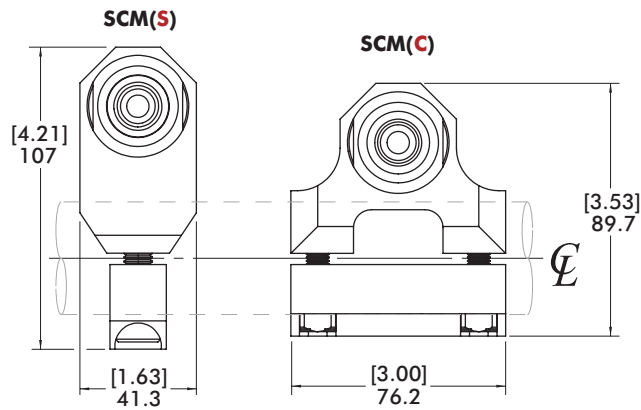
Version	Travel "T"	L	M	Weight
Imperial	200E (2.00" Vertical Travel)	187.3 [7.38]	3/8" NPT	.48kg [1.06 lb]
	400E (4.00" Vertical Travel)	238.2 [9.38]	3/8" NPT	.53kg [1.16 lb]
	600E (6.00" Vertical Travel)	288.9 [11.38]	3/8" NPT	.58kg [1.27 lb]
Metric	050M (50mm Vertical Travel)	187.3 [7.38]	3/8" G	.48kg [1.06 lb]
	100M (100mm Vertical Travel)	238.2 [9.38]	3/8" G	.53kg [1.16 lb]
	150M (150mm Vertical Travel)	288.9 [11.38]	3/8" G	.58kg [1.27 lb]

# SPRING-LOADED CUP MOUNTS

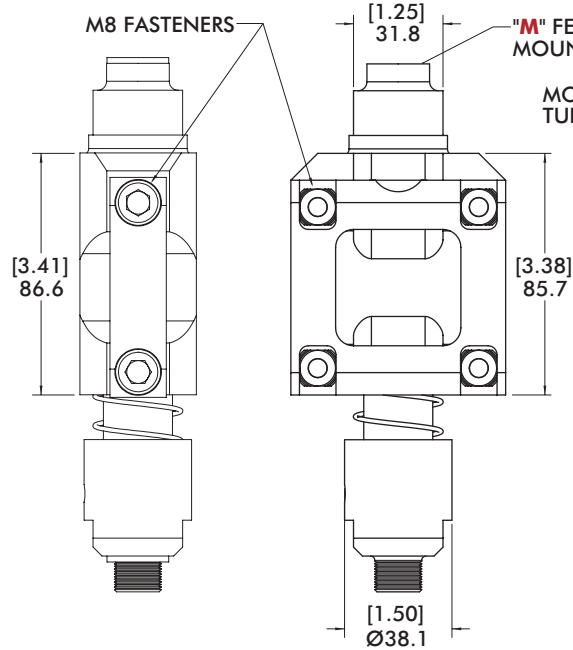
Vacuum Products | Extended Travel Dimensions

## SCM Tube Mounted

Note: To be used in vertical orientations only.

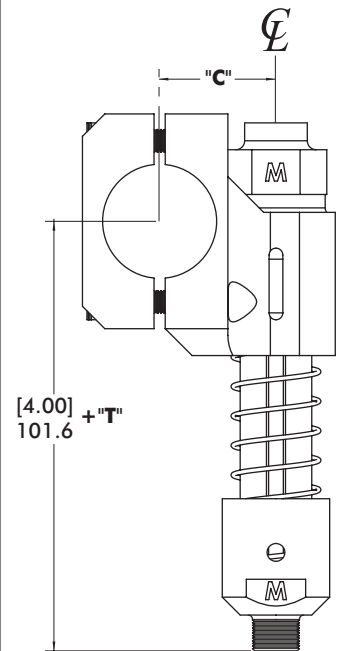
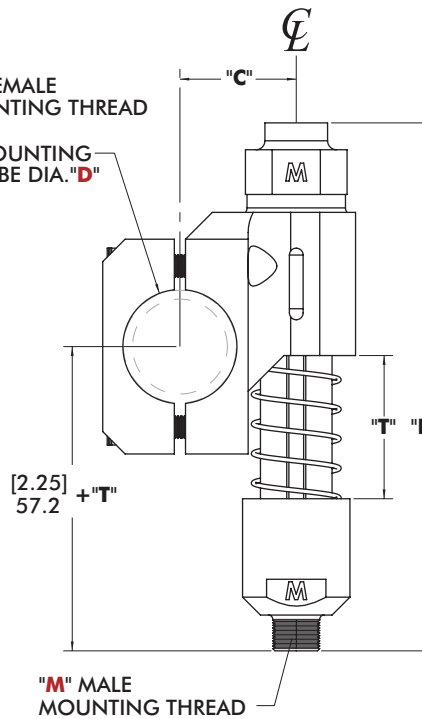


Covered under one or more U.S./International Patents



SCM(S/C) MOUNTING ORIENTATION (SHOWN) "O" = A (RAISED POSITION)

SCM(S/C) MOUNTING ORIENTATION (SHOWN) "O" = B (LOWERED POSITION)



Model	C
CPI-SCMC	41.3 [1.63]
CPI-SCMS	54.1 [2.13]

## SCM Travel and Length - CPI-SCM(X)-"D"- "T"- "O"

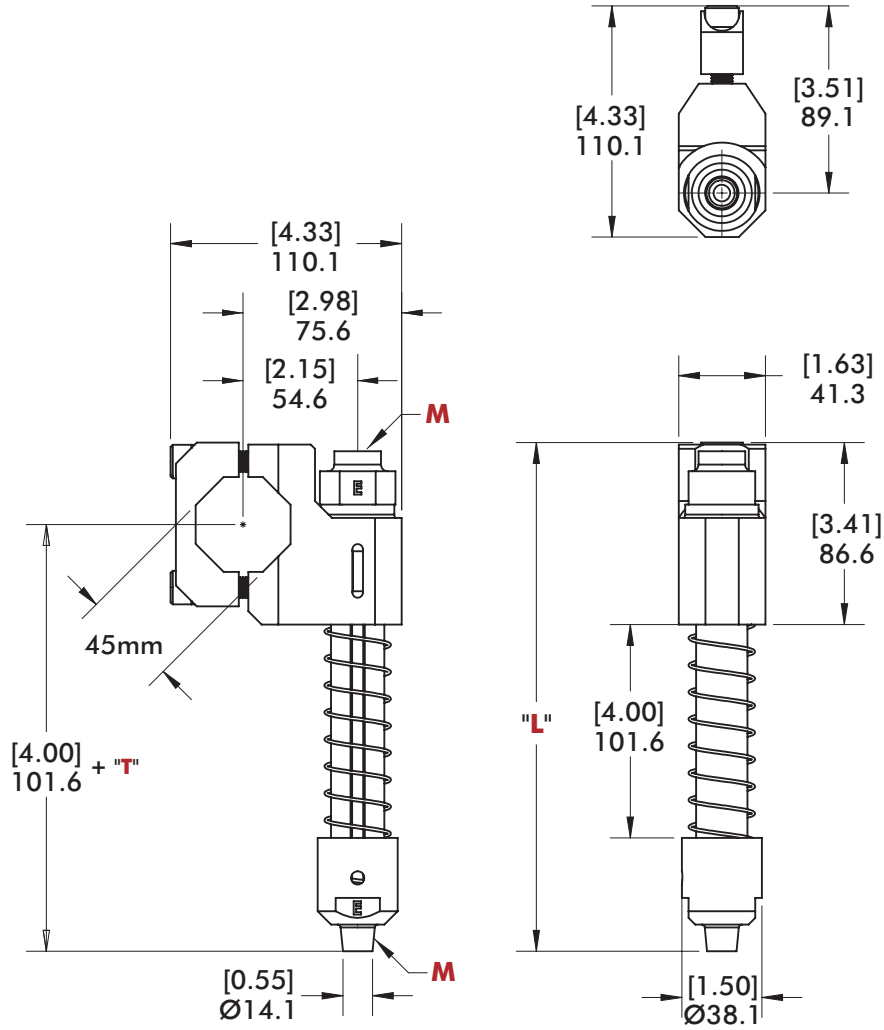
Version	Travel "T"	L	M	D	Weight
Imperial	200E (2.00" Vertical Travel)	187.3 [7.38]	3/8" NPT	150 (Ø1.50")	.85kg [1.87 lb]
	400E (4.00" Vertical Travel)	238.2 [9.38]	3/8" NPT	150 (Ø1.50")	.90kg [1.97 lb]
	600E (6.00" Vertical Travel)	288.9 [11.38]	3/8" NPT	150 (Ø1.50")	.94kg [2.08 lb]
Metric	050M (50mm Vertical Travel)	187.3 [7.38]	3/8" G	40M (Ø40mm)	.85kg [1.87 lb]
	100M (100mm Vertical Travel)	238.2 [9.38]	3/8" G	40M (Ø40mm)	.90kg [1.97 lb]
	150M (150mm Vertical Travel)	288.9 [11.38]	3/8" G	40M (Ø40mm)	.94kg [2.08 lb]

# BODY BUILDER SPRING LOADED VACUUM CUP MOUNTS

Vacuum Products | Extended Travel Dimensions

**SCM** BodyBuilder Mounted

Note: To be used in vertical orientations only.



## SCM Travel and Length - CPI-SCMS-45B-"T"

Version	Travel "T"	L	M	Weight
Imperial	200E (2.00" Vertical Travel)	191.5 [7.54]	3/8" NPT	.77kg [1.7 lb]
	400E (4.00" Vertical Travel)	242.2 [9.54]	3/8" NPT	.82kg [1.8 lb]
	600E (6.00" Vertical Travel)	293.1 [11.54]	3/8" NPT	.87kg [1.9 lb]
Metric	050M (50mm Vertical Travel)	191.5 [7.54]	3/8" G	.77kg [1.7 lb]
	100M (100mm Vertical Travel)	242.2 [9.54]	3/8" G	.82kg [1.8 lb]
	150M (150mm Vertical Travel)	293.1 [11.54]	3/8" G	.87kg [1.9 lb]

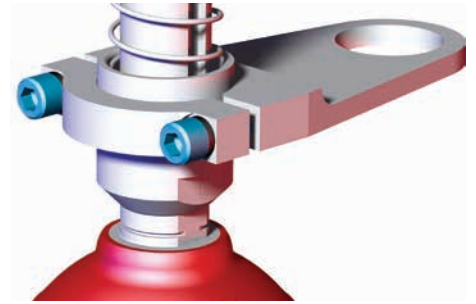
# SPRING LOADED VACUUM CUP MOUNT ACCESSORIES

Vacuum Products | Dimensions | Technical Specifications

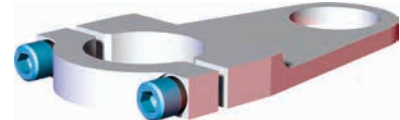
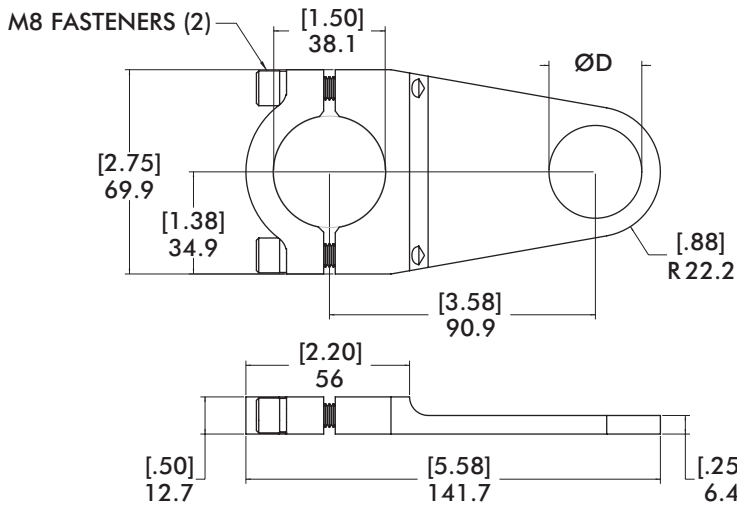
## SAP Extended Travel Proximity Switch Mounts

**Specifications:**  
Material: Aluminum

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

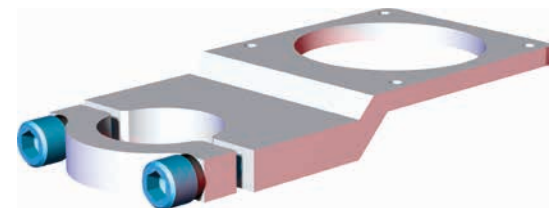
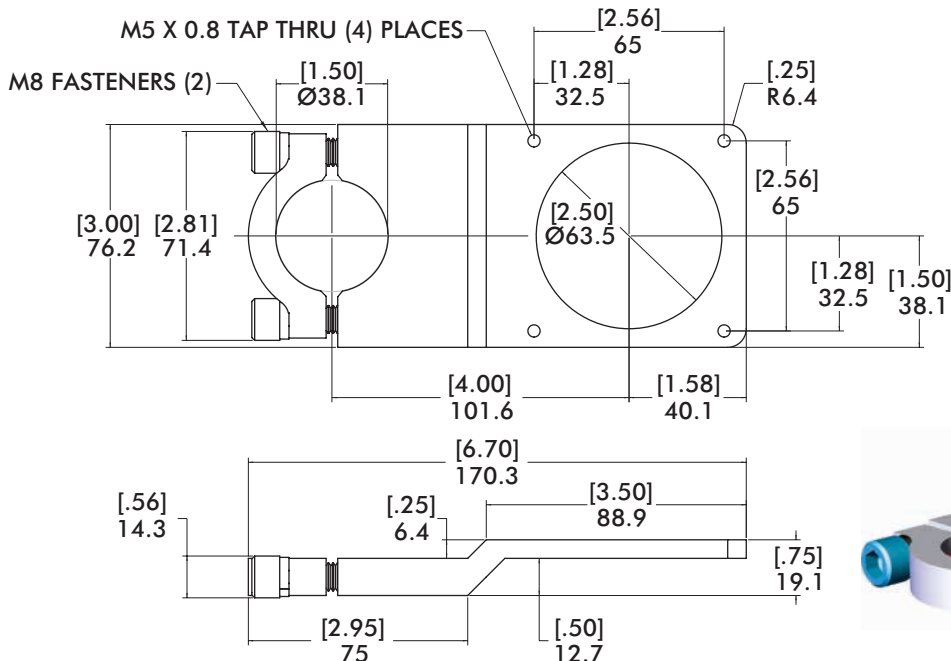


**SAP 30mm Barrel Style**



Model	ØD	Weight
CPI-SAP-30-PM-150	[1.25] 31.8	.13 kg [.29 lb]
CPI-SAP-18-PM-150	[.75] 19	.17 kg [.38 lb]

**SAP 50mm Square Style**

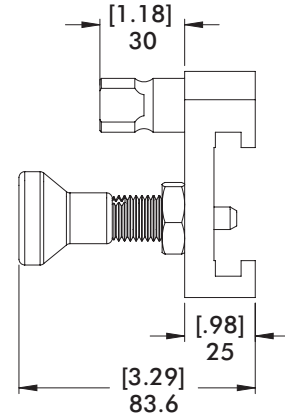
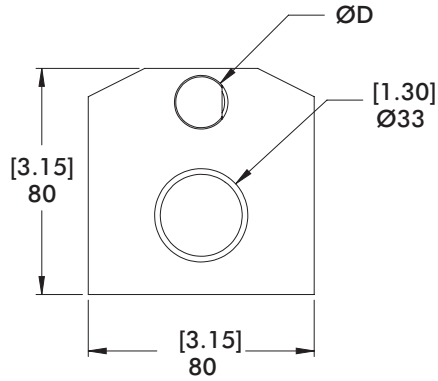
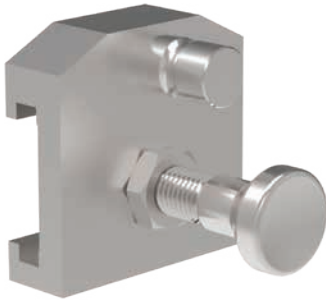


Model	Weight
CPI-SAP-NI50-PM-150	.23 kg [.56 lb]

# DOUBLE BLANK DETECTOR QUICK-CHANGE MOUNT

Vacuum Products | Dimensions | Technical Specifications

## DBD Quick-Change Mount



Model	ØD	Weight
DBD-19-QC-A	19mm	522g [1.15 lb]
DBD-20-QC-A	20mm	527g [1.16 lb]



# DESTACKER DOUBLE BLANK DETECTOR SPRING MOUNTS

Vacuum Products | Features and Options | Ordering Information

## DBD Series

### Features:

- Orbital design allows compliance to blanks within +/- 15° without having to make any automation, tooling or robot adjustments.
- Elimination of compression springs results in long-lasting, reliable performance
- **HD** Version provides added stability for heavy-duty applications

### Specifications:

Operating Pressure: 4 bar [60psi]  
Electric: Sensor supplied by customer

Note: To be used in vertical orientations only.

CPI-DBD-(X)-SCMB-(T)  
Ø1.25" Thru Hole  
Bulkhead Mount



CPI-DBD-(X)-SCM10/25-(T)  
Ø1.00"/25mm  
Extension Mount



CPI-DBD-(X)-SCMB-(T)-HD  
Ø1.00"/25mm Tube Mount  
Heavy-duty (Double Pogo)



Base Model  
**DBD**  
Double Blank  
Detector

Sensor Size  
**42** Ø42mm  
**54** Ø54mm  
(Sensors not  
Included)

Mounting Style  
**SCM10** Ø1.00" Extension Mount  
**SCM25** Ø25mm Extension Mount  
**SCMB** Bulkhead Mount

Vertical Travel (T) (See pages 46-47)  
**200E** 2.00 in. with NPT Vacuum Port (Except -HD)  
**400E** 4.00 in. with NPT Vacuum Port  
**600E** 6.00 in. with NPT Vacuum Port  
**800E** 8.00 in. with NPT Vacuum Port (-HD only)  
**050M** 50mm with G Vacuum Port (Except -HD)  
**100M** 100mm with G Vacuum Port  
**150M** 150mm with G Vacuum Port  
**200M** 200mm with G Vacuum Port (-HD only)

Covered under one or more U.S./International Patents

CPI-DBD-(X)-(T)-SCMC-(D)  
Ø1.25"/40mm  
Tube Mount



X=Sensor Size  
**42** Ø42mm  
**54** Ø54mm  
(Sensors not Included)

T=Vertical Travel  
**200E** 2.00 in. with NPT Vacuum Port  
**400E** 4.00 in. with NPT Vacuum Port  
**600E** 6.00 in. with NPT Vacuum Port  
**050M** 50mm with G Vacuum Port  
**100M** 100mm with G Vacuum Port  
**150M** 150mm with G Vacuum Port

D=Tube Mount  
**40** 40mm Tube Mount (Metric Only)  
**150** 1.50" Tube Mount (Imperial Only)  
(See page 50)

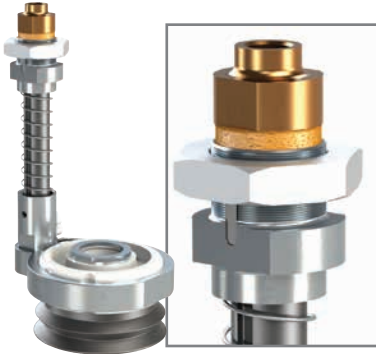
CPI-DBD-42-200E-SCMS  
Ø45mm  
BodyBuilder Mount  
(See page 51)



# DESTACKER DOUBLE BLANK DETECTOR SPRING MOUNTS

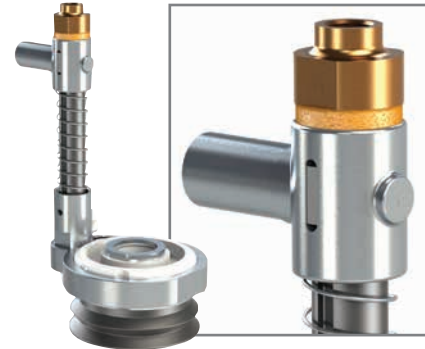
Vacuum Products | Dimensions | Technical Specifications

## DBD Bulkhead/Extension Style Dimensions

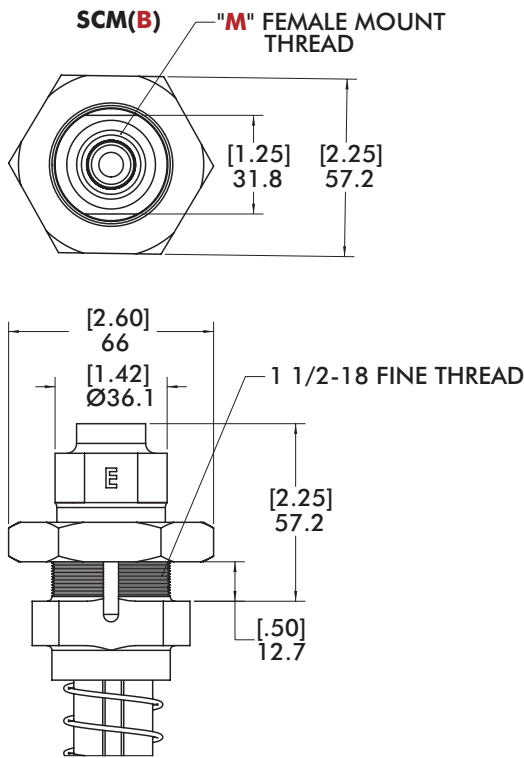


**SCMB**  
Ø1.25" Thru Hole  
Bulkhead Mount

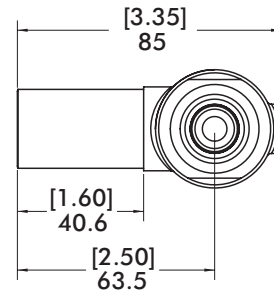
Note: To be used in vertical orientations only.



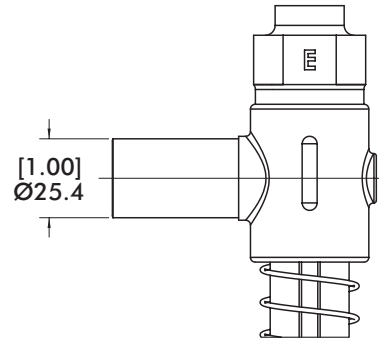
**SCM10/25**  
Ø1.00"/25mm  
Extension Mount



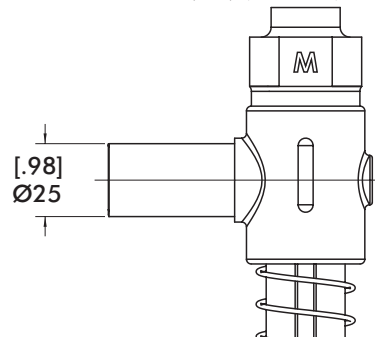
### SCM(10) & SCM(25)



### SCM(10) (ENGLISH)



### SCM(25) (METRIC)

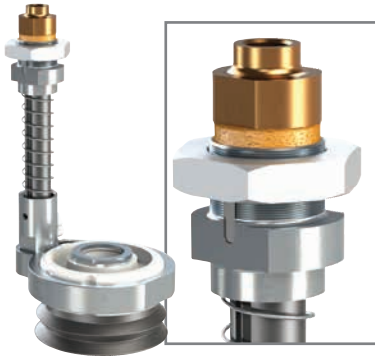


Version	(M)
Imperial	3/8" NPT
Metric	3/8" G

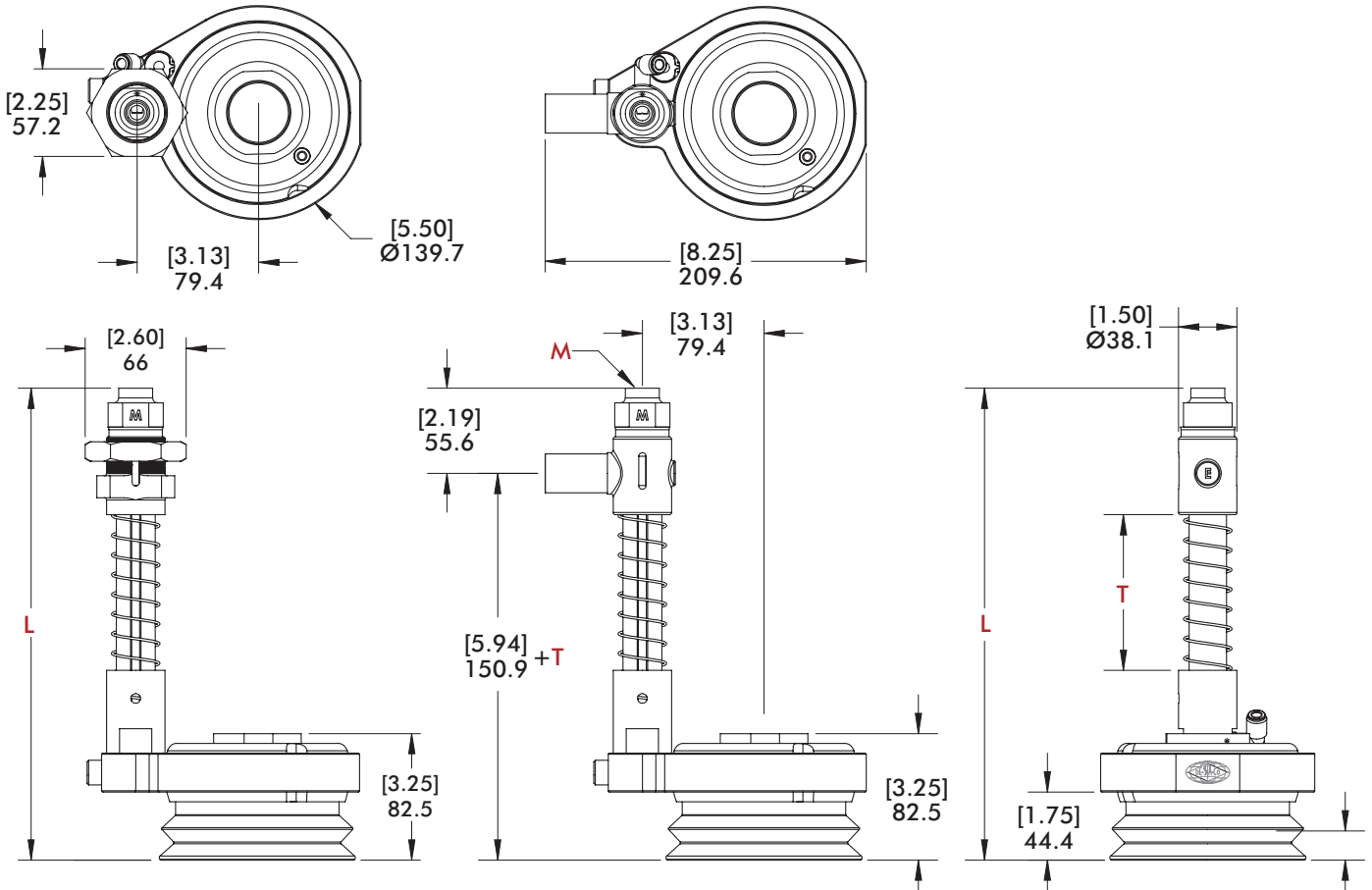
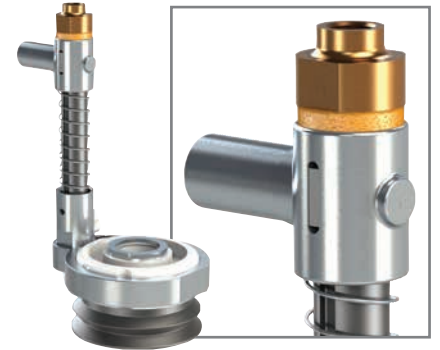
# DESTACKER DOUBLE BLANK DETECTOR SPRING MOUNTS

Vacuum Products | Dimensions | Technical Specifications

## DBD Bulkhead/Extension Style



Note: To be used in vertical orientations only.



### DBD Travel and Length - CPI-DBD-(X)-SCM(X)-(T)

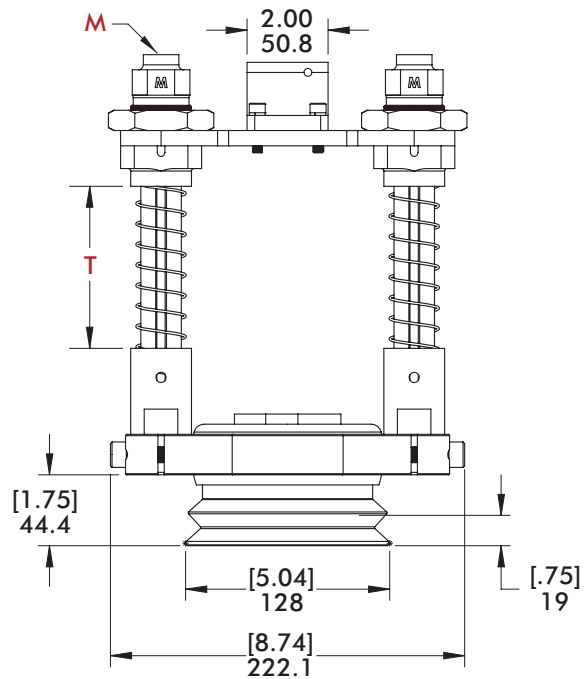
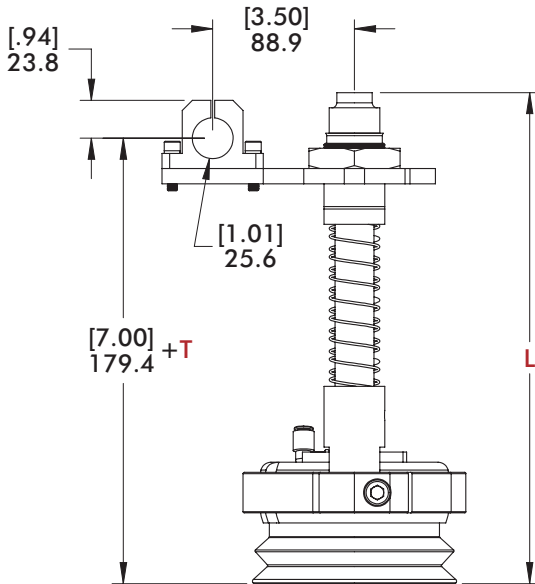
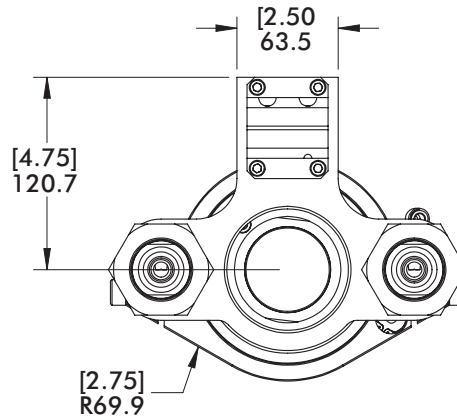
Version	Vertical Travel (T)	(L)	(M)	Weight
Imperial	200E (2.00")	257.1 [10.12]	3/8" NPT	.85kg [1.87 lb]
	400E (4.00")	307.9 [12.12]		.90kg [1.97 lb]
	600E (6.00")	358.7 [14.12]		.94kg [2.08 lb]
Metric	050M (50mm)	257.1 [10.12]	3/8" G	.85kg [1.87 lb]
	100M (100mm)	307.9 [12.12]		.90kg [1.97 lb]
	150M (150mm)	358.7 [14.12]		.94kg [2.08 lb]

# DESTACKER DOUBLE BLANK DETECTOR SPRING MOUNTS



Vacuum Products | Dimensions | Technical Specifications

## DBD Heavy Duty (Double Pogo)

Note: To be used in vertical orientations only.



### DBD Travel and Length - CPI-DBD-(X)-SCMB-(T)-HD

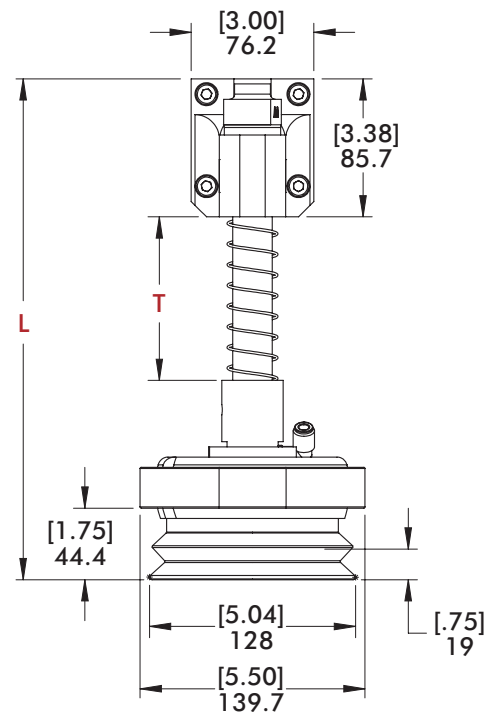
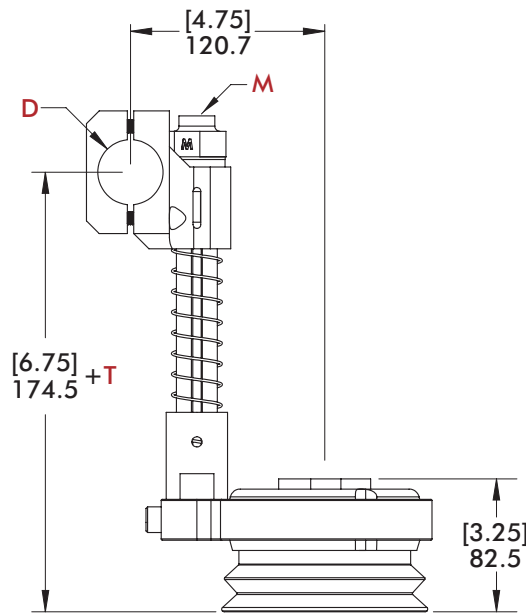
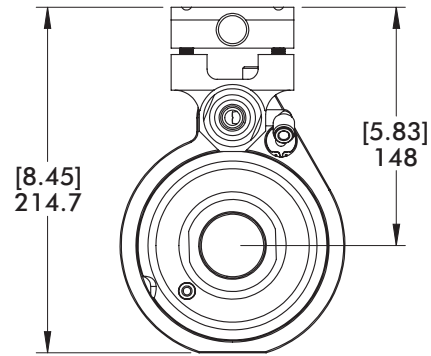
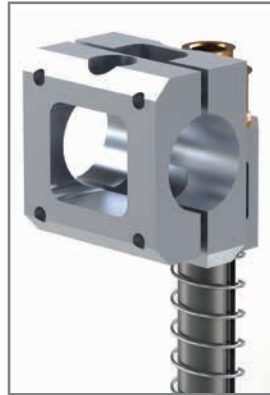
Version	Vertical Travel (T)	(L)	(M)	Weight
 Imperial	400E (4.00")	307.9 [12.12]	3/8" NPT	3.06kg [6.75 lb]
	600E (6.00")	357.9 [14.09]		3.16kg [6.97 lb]
	800E (8.00")	405.9 [15.98]		3.23kg [7.12 lb]
 Metric	100M (100mm)	307.9 [12.12]	3/8" G	3.06kg [6.75 lb]
	150M (150mm)	357.9 [14.09]		3.16kg [6.97 lb]
	200M (200mm)	405.9 [15.98]		3.23kg [7.12 lb]

# BODYBUILDER™ DOUBLE BLANK DETECTOR SPRING MOUNTS

Vacuum Products | Dimensions | Technical Specifications



**DBD** Ø1.25"/40mm Tube Mount

Note: To be used in vertical orientations only.



**X**=Sensor Size  
**42** Ø42mm  
**54** Ø54mm  
 (Sensors not Included)

## DBD Travel and Length - CPI-DBD-(X)-(T)-SCMC-(D)

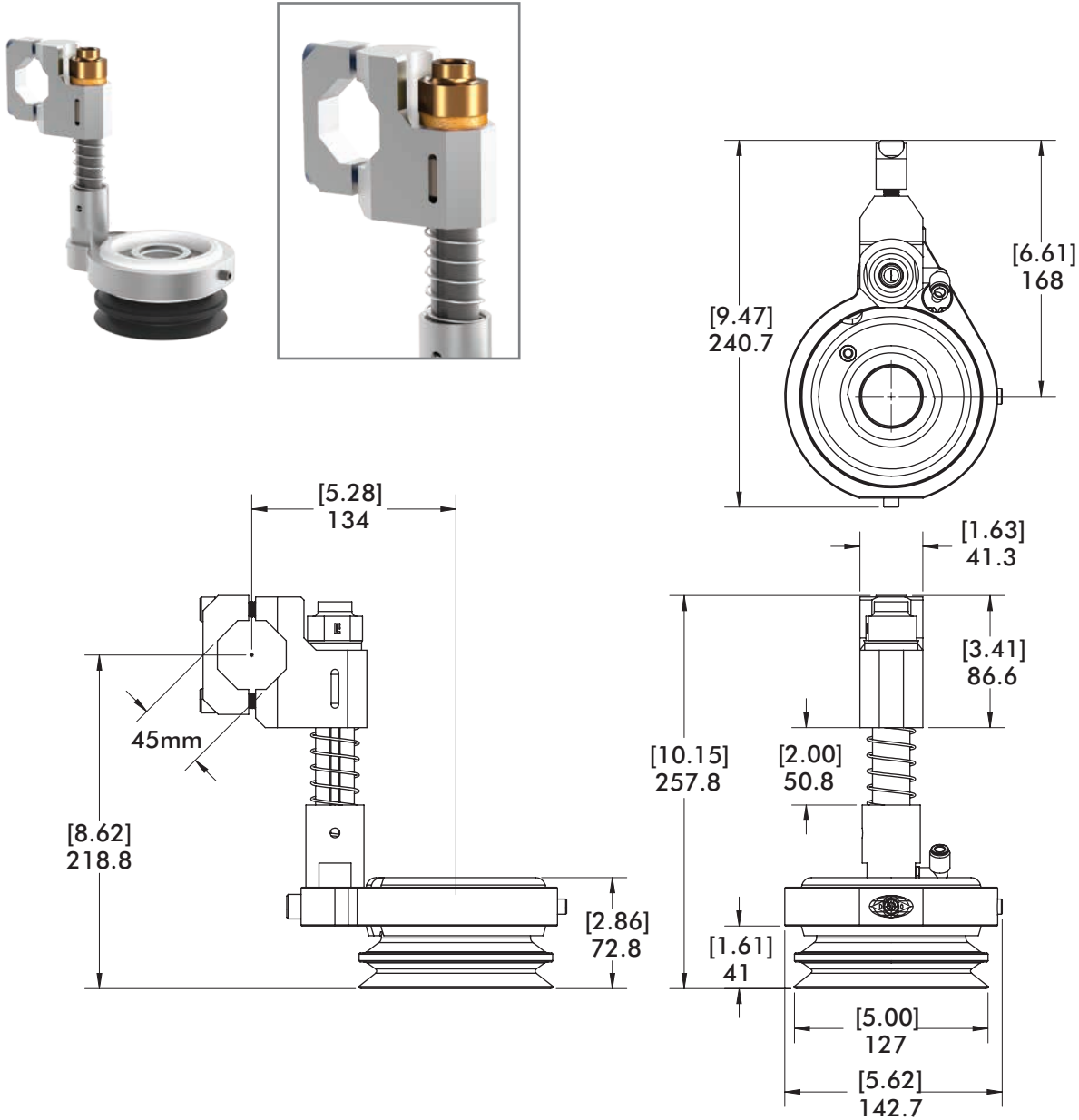
Version	Vertical Travel (T)	(L)	(M)	(D)	Weight
 Imperial	200E (2.00")	261.1 [10.28]	3/8" NPT	150 (Ø1.50")	.85kg [1.87 lb]
	400E (4.00")	311.1 [12.25]			.90kg [1.97 lb]
	600E (6.00")	369.9 [14.21]			.94kg [2.08 lb]
 Metric	050M (50mm)	261.1 [10.28]	3/8" G	40M (Ø40mm)	.85kg [1.87 lb]
	100M (100mm)	311.1 [12.25]			.90kg [1.97 lb]
	150M (150mm)	369.9 [14.21]			.94kg [2.08 lb]

# DESTACKER DOUBLE BLANK DETECTOR SPRING MOUNTS

Vacuum Products | Dimensions | Technical Specifications

## DBD Ø45mm BodyBuilder Mount

Note: To be used in vertical orientations only.



### CPI-DBD-42-200E-SCMS-45B

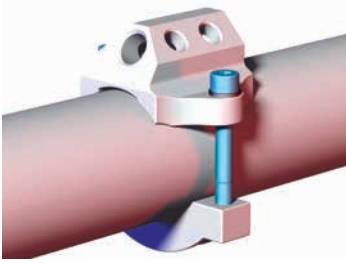
Version	Thread	Weight
Imperial	3/8" NPT	1.8kg [3.9 lb]



# MANIFOLDS

Vacuum Products | Dimensions | Technical Specifications

## MBC/MLK Boom Mounted Single 4-Port - 30° Angled Input Port

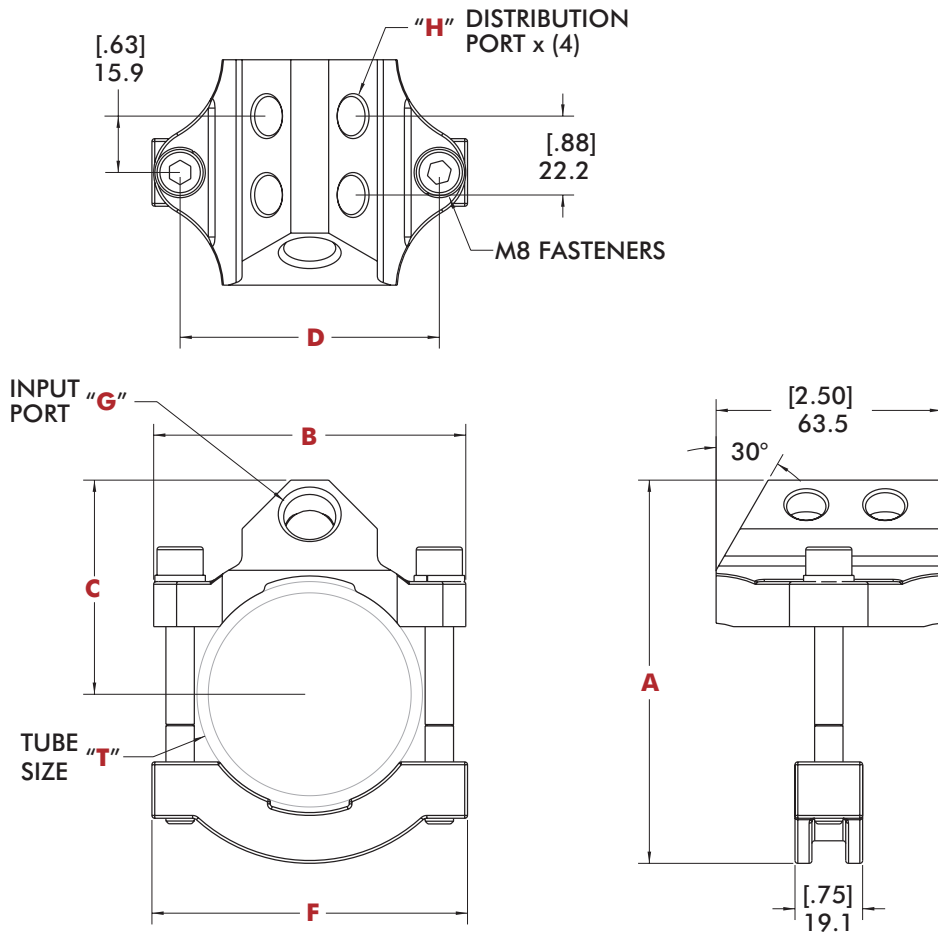
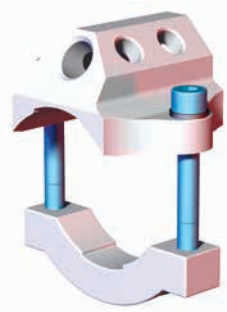


### Features:

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

### Specifications:

Material: Aluminum



### MBC/MLK Dimensions

Model	A	B	C	D	F	G	H	T	Weight
CPI-MLK-60-G44-30	108.0	87.9	60.3	73	88.9	3/8 G	1/4 G	Ø60MM	340g
[CPI-MBC-250-4-4-30]	[4.25]	[3.46]	[2.38]	[2.88]	[3.50]	[3/8 NPT]	[1/4 NPT]	[Ø2.50"]	[12 oz]



# MANIFOLDS

Vacuum Products | Dimensions | Technical Specifications

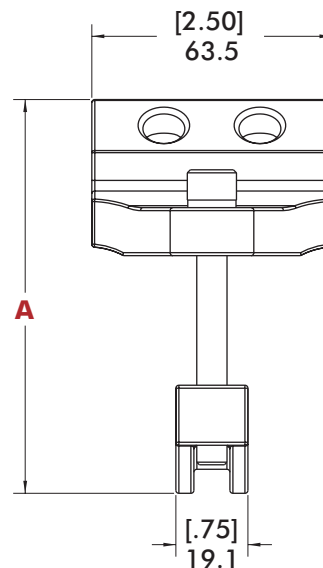
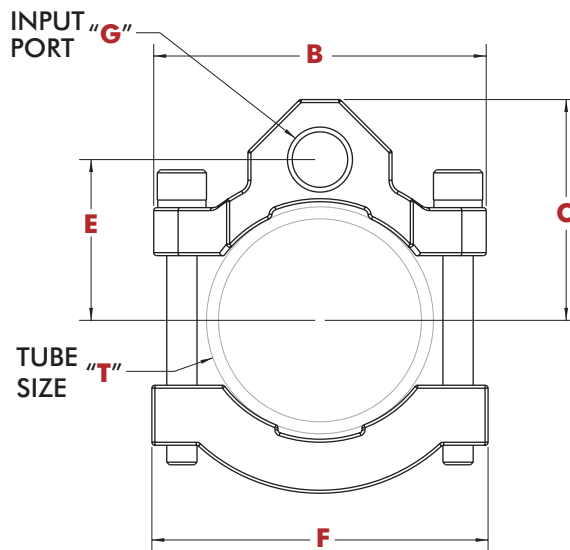
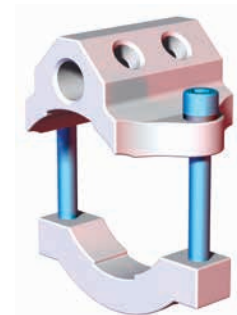
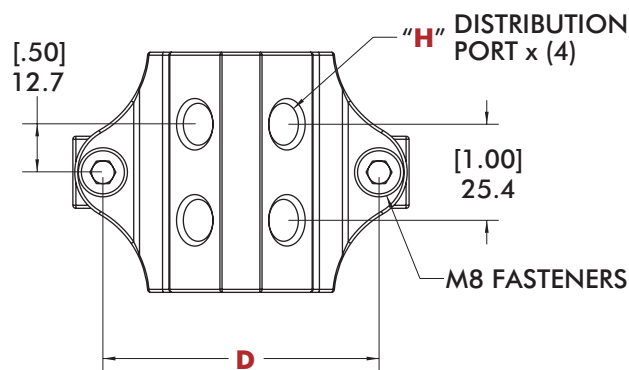
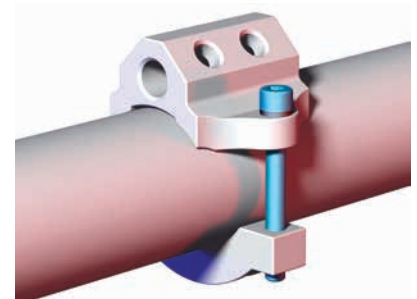
## MBC/MLK Boom Mounted Single 4-Port

### Specifications:

Material: Aluminum

### 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.



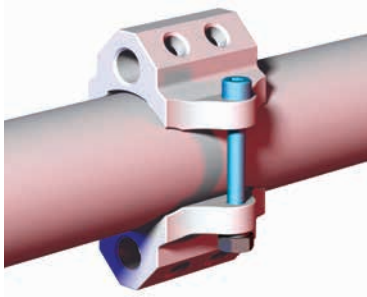
### MBC/MLK Dimensions

Model	A	B	C	D	E	F	G	H	T	Weight
CPI-MLK-40-G44	88.9	64.3	52.5	48.5	36.7	64.3	12.9	114.5	Ø40MM	283g
[CPI-MBC-150-4-4]	[3.50]	[2.53]	[2.07]	[1.91]	[1.44]	[2.53]	[.51]	[4.51]	[Ø1.50"]	[10 oz]
CPI-MLK-60-G44	104.1	87.9	58.4	73	42.5	88.9	39.7	118.4	Ø60MM	340g
[CPI-MBC-250-4-4]	[4.10]	[3.46]	[2.30]	[2.88]	[1.67]	[3.50]	[1.56]	[4.65]	[Ø2.50"]	[12 oz]

# MANIFOLDS

Vacuum Products | Dimensions | Technical Specifications

## MBC/MLK Boom Mounted Double 8-Port

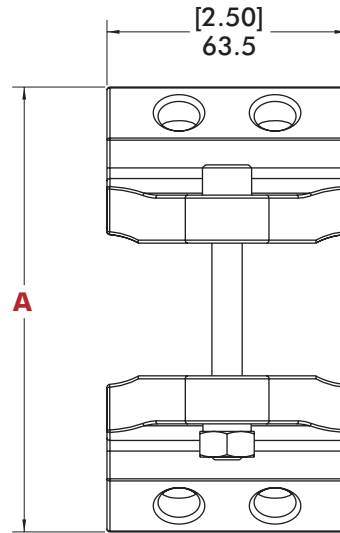
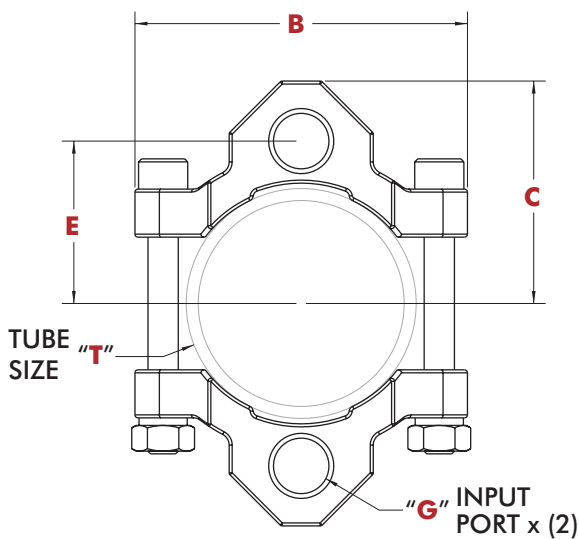
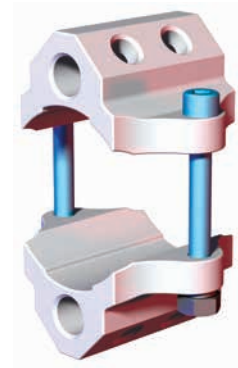
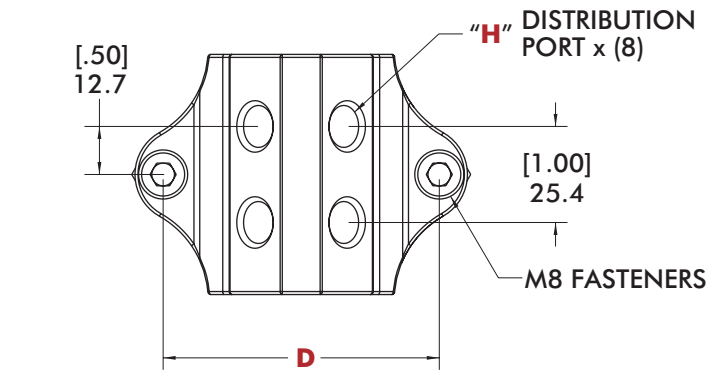


### Features:

- 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 [Ø1.50"] and Ø60mm [Ø2.50"] materials.

### Specifications:

Material: Aluminum



### MBC/MLK Dimensions

Model	A	B	C	D	E	G	H	T	Weight
CPI-MLK-40-G88 [CPI-MBC-150-8-8]	105.1 [4.14]	64.3 [2.53]	52.5 [2.07]	48.5 [1.91]	36.8 [1.45]	3/8 G [3/8 NPT]	1/4 G [1/4 NPT]	Ø40MM [Ø1.50"]	425g [16 oz]
CPI-MLK-60-G88 [CPI-MBC-250-8-8]	117.6 [4.63]	87.9 [3.46]	58.8 [2.32]	73.0 [2.88]	42.9 [1.69]	3/8 G [3/8 NPT]	1/4 G [1/4 NPT]	Ø60MM [Ø2.50"]	510g [18 oz]

# MANIFOLDS

Vacuum Products | Dimensions | Technical Specifications

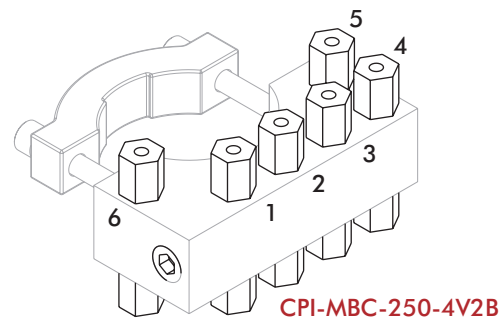
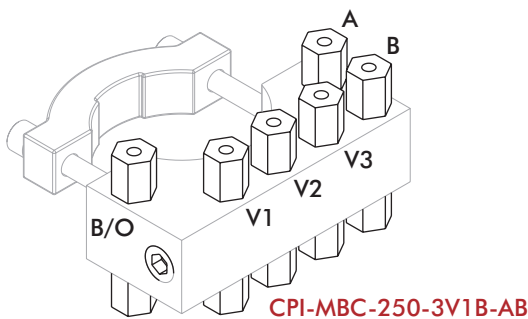
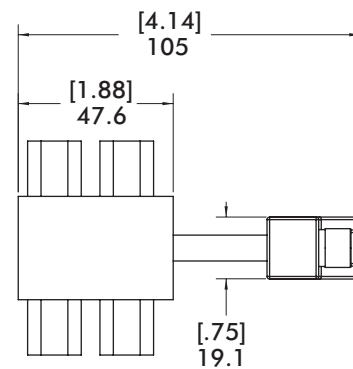
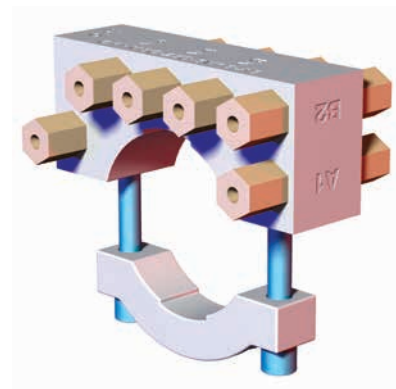
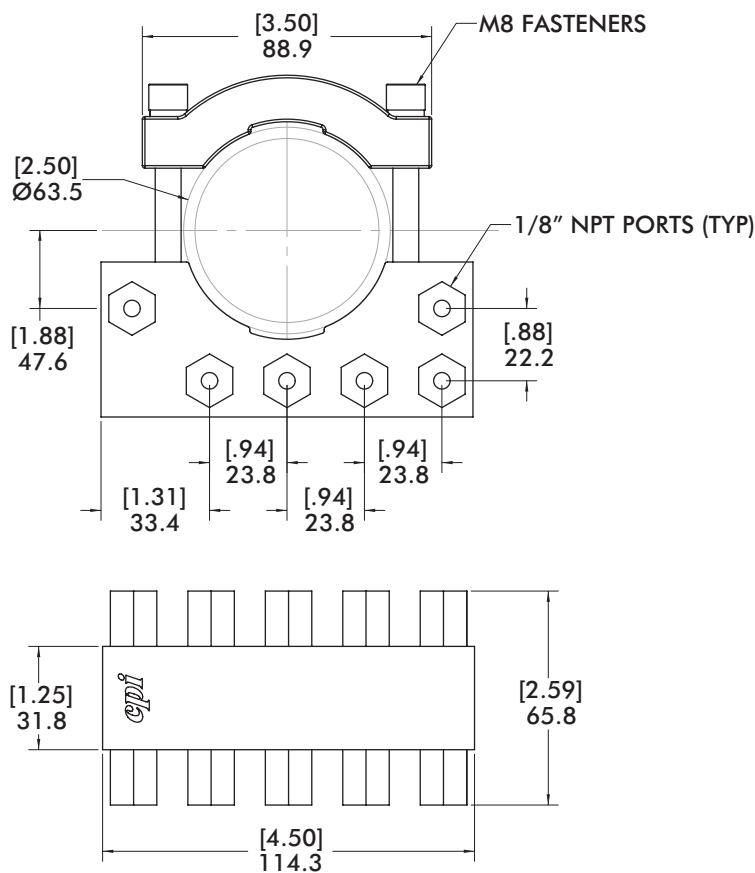
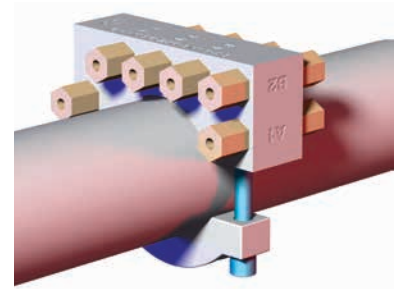
## MBC Boom Mounted Single 6-Port

**Specifications:**

**Material:** Aluminum

**Features:**

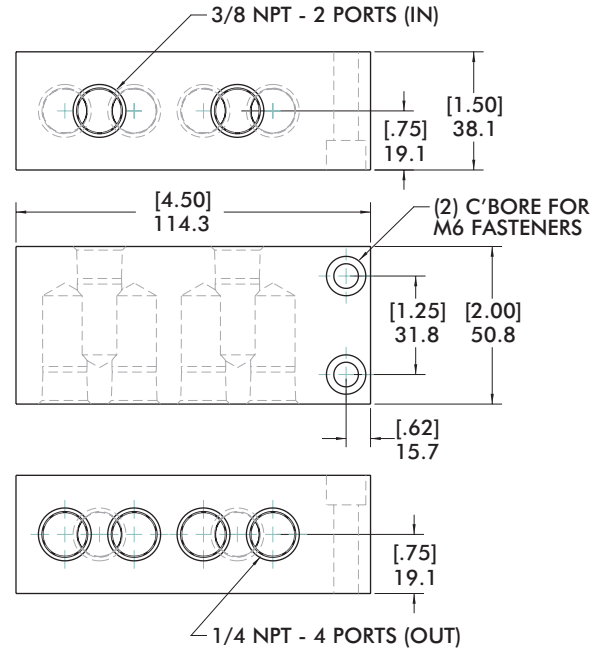
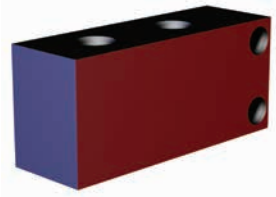
- Provides a 6-port air distribution system mounted on the boom.
- Easy access.



# MANIFOLDS

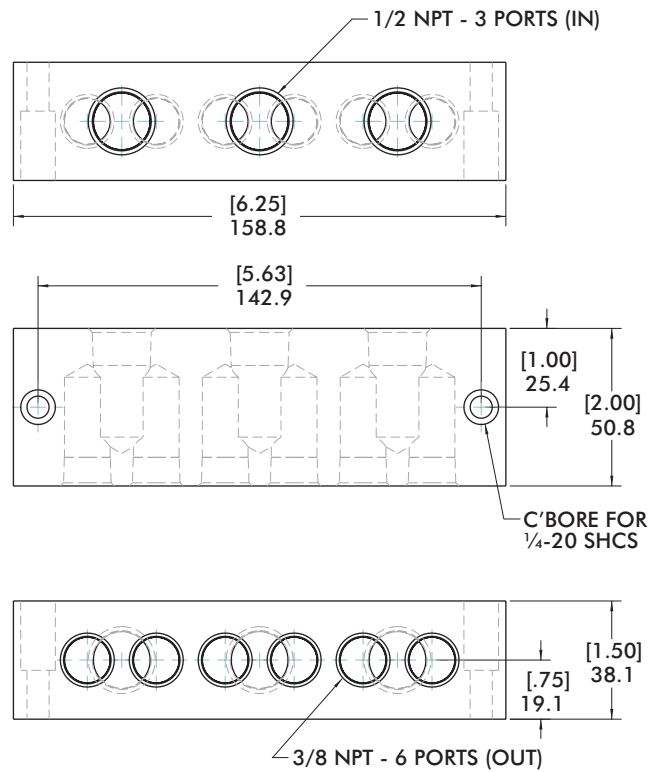
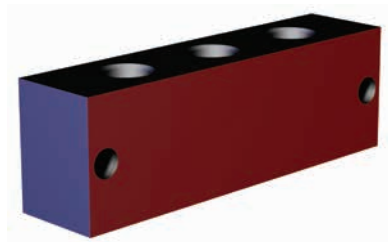
Vacuum Products | Dimensions | Technical Specifications

## GDA/MBB Block Style for Remote Mounting



Material: Aluminum

Model	Weight
CPI-GDA-M24-37327	.23 kg [.56 lb]



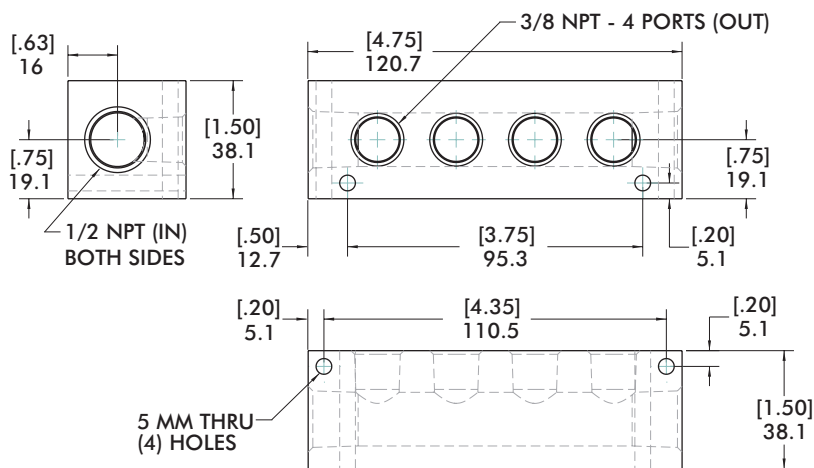
Material: Aluminum

Model	Weight
CPI-MMB-4V2B-LG	.23 kg [.56 lb]

# MANIFOLDS

Vacuum Products | Dimensions | Technical Specifications

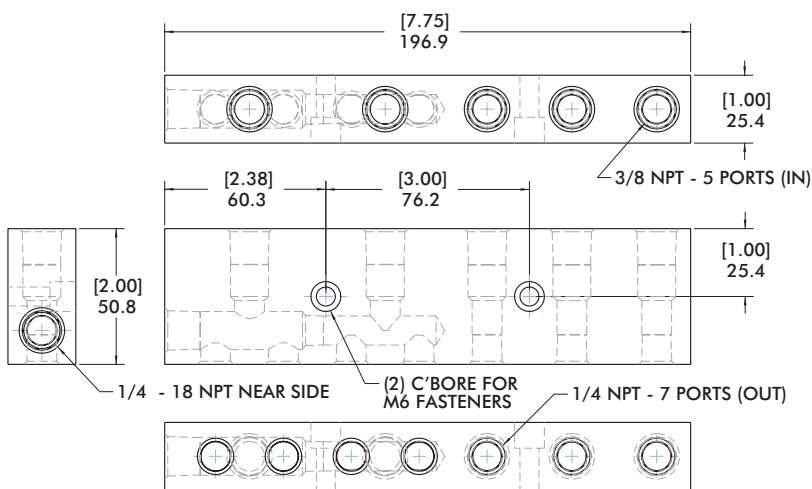
## MMB Block Style or Remote Mounting



Material: Aluminum

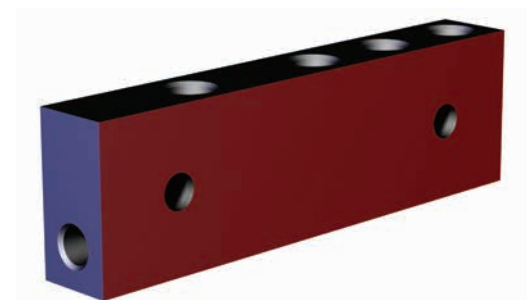
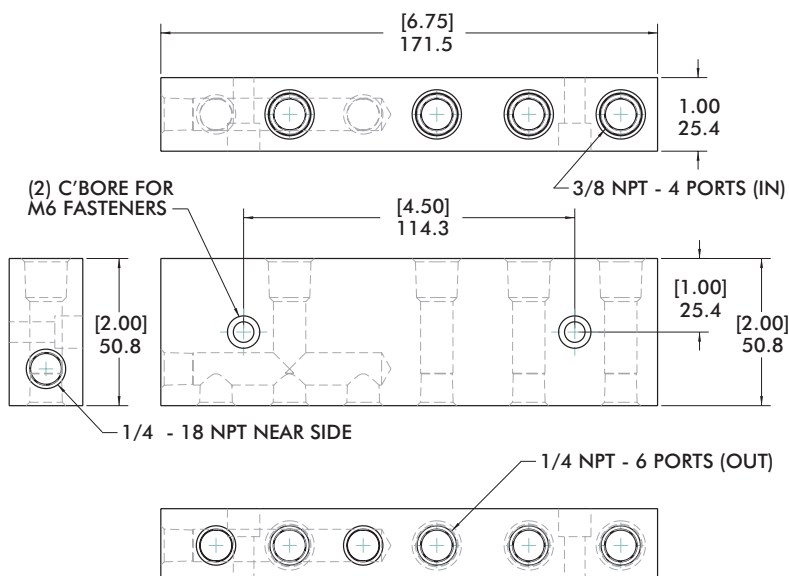
Model	Weight
CPI-MMB-4P	.23 kg [.56 lb]

## MMB Block Style or Remote Mounting



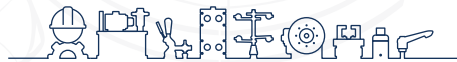
Material: Aluminum

Model	Weight
CPI-MMB-4VSP-AB	.23 kg [.56 lb]



Material: Aluminum

Model	Weight
CPI-MMB-3V1B-AB	.23 kg [.56 lb]



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