VACUUM SOLUTIONS

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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® 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.



US Patents #7,309,089 7,712,807





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 flexibilty for minor misalignments
- Dual Durometer Polyurethane Outside 55 durometer (red), internal treads 60 durometer (dark green)



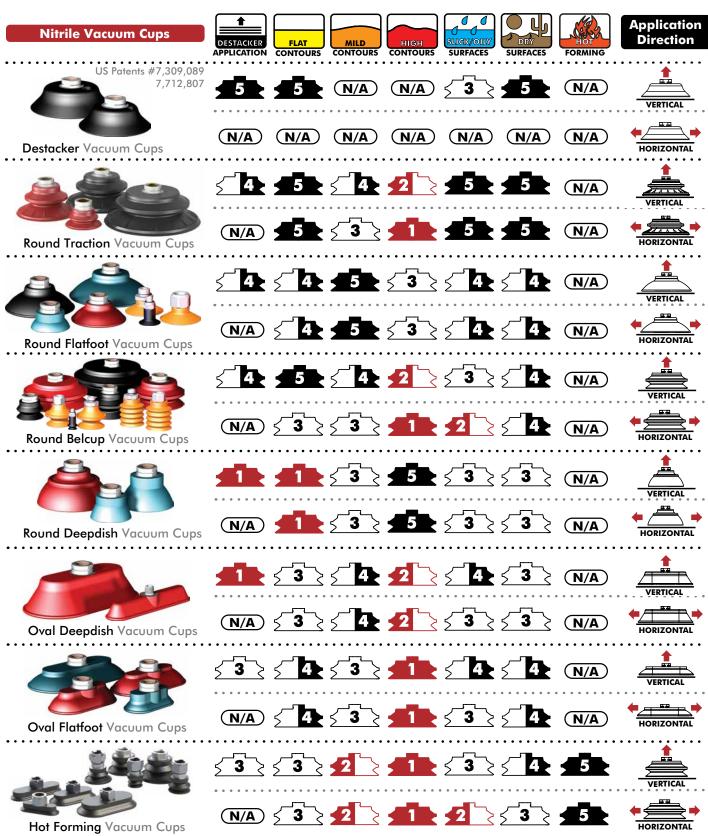
Oval Flat Foot Vacuum Cups

- 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 panal
- 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



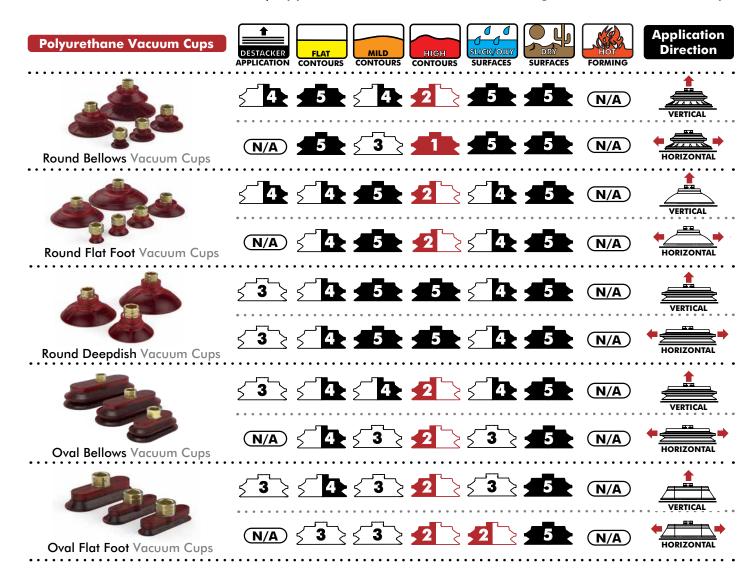


This chart is a guide to aid in selecting the right family of cup for general surfaces, contours, and applications.



CHOOSE THE RIGHT VACUUM CUP FOR YOUR APPLICATION

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



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)?

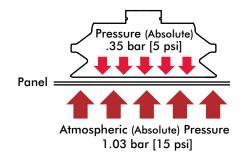


A set of vacuum cups of the same size and type, each having different durometers may handle oily/slick contoured parts differently. However, cup longevity of each may be affected as a result of durometer, application and usage. The ACU Index is a reference shown with each type of vacuum cup and is used 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 w = Weight of Panel Lifting force of cup s = Safety factorn = Number of cups Weight and lifting force must be in the same units, either English or Metric.

Safety Factor

Ideal plant conditions*: (2)

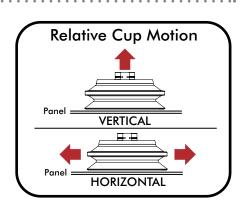
Fast moving robot: (+1) Slick or Oily Panel: (+1) Flexing Panel: (+2) Small cups: (+1)

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 **Total Safety Factor**

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



VACUUM CUP OPTIONS

Vacuum Products | Durometer and Mounting Options

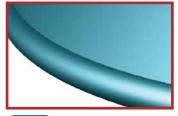
DESTACO Vacuum Cups are offered in different families, and may be offered in different durometers. Vacuum cups are also offered in Imperial and Metric mounting options which may vary according to the size and type of the vacuum cup.

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")





3/8" G



1.25" SQUARE



M10 MALE



M8 FEMALE



SMOOTH BORE

M—CUP = Mount only available in this cup size. \mathbf{M} = Mount not available in this cup size.

Micro Industrial Mounting Options ("M")



10-32 MALE



1/8" G FEMALE



1/8" G MALE



3/8 NPT



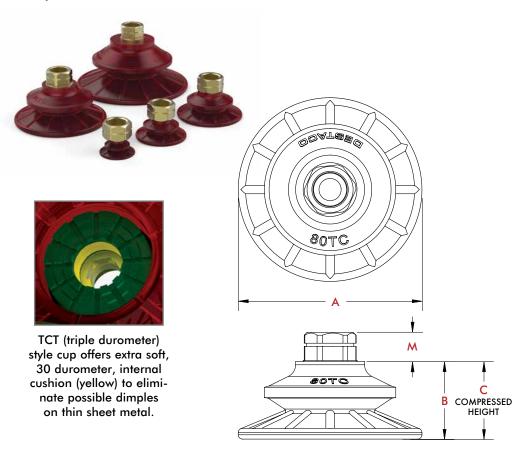
G3/8



1.25 in. Square

Vacuum Products | Dimensions | Ordering Information

TC Polyurethane Round Bellows



Specifications:

Temperature:

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

(dark green).



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

Dimensions shown "[inch] mm"

TC Dimensions

Model	Α	В	С	Weight
30 TC	[1.18]	[0.57]	[0.37]	[1.00 oz]
	30	14.5	9.5	28 g
40 TC	[1.77]	[0.69]	[0.41]	[1.20 oz]
	45	17.5	10.5	34 g
60 TC	[2.40]	[0.85]	[0.45]	[2.15 oz]
	61	21.5	11.5	61 g
80 TC/	[3.35]	[1.40]	[0.85]	[4.97 oz]
80 TCT	85	35.5	21.5	141 g
110TC/	[4.53]	[2.03]	[1.20]	[9.70 oz]
110TCT	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
30 TC	[6] 2.72	[3] 1.36	[1.75] 0.79
40 TC [18] 8.16		[13] 5.90	[10] 4.54
60 TC	[25] 11.34	[27] 12.25	[20] 9.07
80 TC/	[53]	[54]	[36]
80 TCT	24.04	24.49	16.33
110TC/	[85]	[78]	[57]
110 TCT 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")



Nylon G3/8



1.25 in. Square



Vacuum Products | Dimensions | Ordering Information

Specifications:

Temperature:

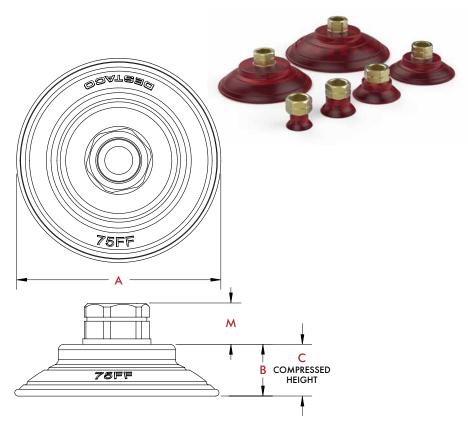
10°-49° C [50°-120° F] Materials: Dual Durometer Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green).



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

Dimensions shown "[inch] mm"

FF Polyurethane Round Flat



FF Dimensions

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

Dimensions shown "[inch] mm"

FF Holding Capacity @ -0.6 bar vacuum

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

Holding capacities shown "[lbs] kg"

Mounting Options ("M")

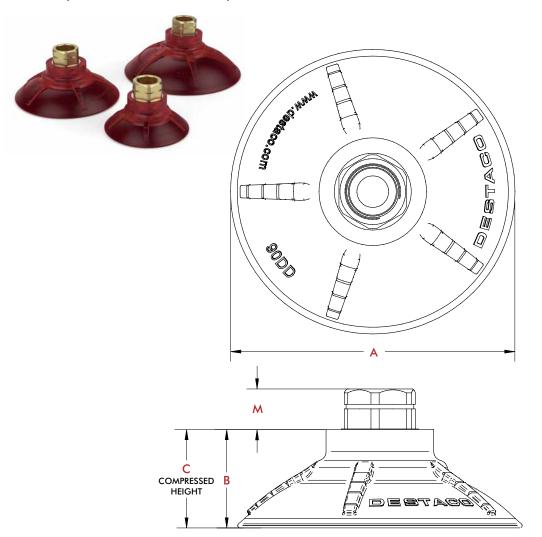


FF Round Flat Ordering Information

Metric	
Ø25mm	VC- 25FF -(M)-PU55
Ø35mm	VC- 35FF -(M)-PU55
Ø 50 mm	VC- 50FF -(M)-PU55
Ø 75mm	VC- 75FF -(M)-PU55
Ø100mm	VC- 100FF -(M)-PU55
Ø125mm	VC- 125FF -(M)-PU55

Vacuum Products | Dimensions | Technical Specifications

DD Polyurethane Round Deepdish



Specifications:

Temperature:

10°-49° C [50°-120° F]

Materials:

60 durometer (red)



Mount	М
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	Α	В	С	Weight with U38/G38/C	Weight with P38
65 DD	[2.66]	[1.11]	[0.67]	[2.08 oz]	[0.9 oz]
	67.5	28.2	17.0	59 g	25 g
90 DD	[3.64]	[1.27]	[0.75]	[2.72 oz]	[1.5 oz]
	92.5	32.2	19.0	77 g	43 g
110 DD	[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
65 DD	[42.8]	[44.1]	[30.2]
	19.4	20.0	13.7
90 DD	[69.7]	[80.5]	[55.8]
	31.6	36.5	25.3
110 DD	[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")







3/8 NPT G3/8

Nylon G3/8

1.25 in. Square



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:

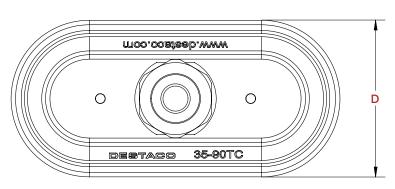
Temperature:

10°-49° C [50°-120° F]

Materials: Dual Durometer Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green). **TC** Polyurethane Oval Bellows

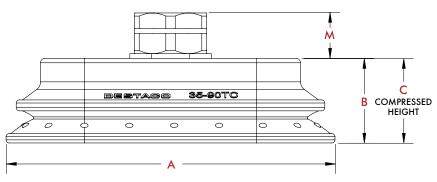






Mount	Μ
U38/G38	[0.57] 14.5
P38	[0.85] 21.5
C	[0.73] 18.5

Dimensions shown "[inch] mm"



TC Dimensions

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

Dimensions shown "[inch] mm"

TC Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
35-90 TC	[45]	[40]	[34]
33-7010	20.41	18.14	15.42
50-140 TC	[99]	[93]	[78]
30-14010	44.91	42.18	35.38
45 170TC	[128]	[139]	[149]
65-170 TC	58.06	63.05	67.59

Holding capacities shown "[lbs] kg"

Mounting Options ("M")



TC Oval Bellows Ordering Information

Metric



Vacuum Products | Dimensions | Ordering Information

FF Polyurethane Oval Flat

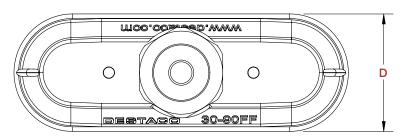


Specifications:

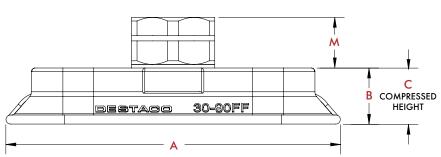
Temperature:

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	М	
U38/G38	[0.57] 14.5	
P38	[0.85] 21.5	
С	[0.73] 18.5	

Dimensions shown "[inch] mm"

FF Dimensions

Model	Α	В	С	D	Weight
20-80 FF	[3.31]	[0.61]	[0.49]	[0.94]	[0.85 oz]
	84	15.5	12.5	24	24 g
30-90 FF	[3.66]	[0.61]	[0.45]	[1.30]	[1.05 oz]
	93	15.5	11.5	33	30 g
40-110 FF	[4.45]	[0.85]	[0.65]	[1.69]	[1.94 oz]
	113	21.5	16.5	43	55 g

Dimensions shown "[inch] mm"

FF Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
20-80 FF	[25]	[25]	[11]
	11.34	11.34	4.99
30-90 FF	[35]	[36]	[17]
	15.88	16.33	7.71
40-110 FF	[55]	[52]	[18]
	24.95	23.59	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")









3/8 NPT

G3/8

Nylon G3/8

1.25 in. Square



EE-VAC | 13

Vacuum Products | Dimensions | Ordering Information

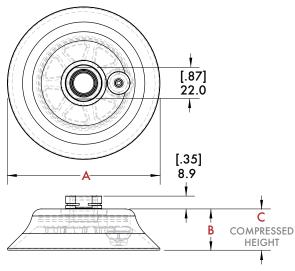
Specifications:

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



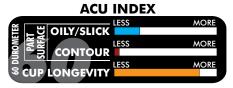




DC Destacker Stress Relieving







US Patents #7,309,089 7,712,807

	-				
DC	l) i	m	α n	CIA	nnc

Model	Α	В	С	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]

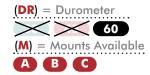
Holding capacities shown "N [lbf]"

DC Destacker Stress Relieving Ordering Information

Imperial Ø3.00"..... CPI-30DC-(M)-60

(DR) = Durometer (M) = Mounts Available K B C D EI

Metric	
Ø75 mm	. CPI-75DC-(M)-60
Ø100 mm	CPI-100DC-(M)-60



Vacuum Products | Dimensions | Ordering Information

TC/HT Round Traction



Specifications:

Temperature:

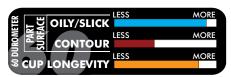
15-59 Sec: -29° to 121° C [-20° to 250° F] 1-5 min: -9° to 82° C [15° to 180° F]

Material: Nitrile **Chemical Resistance:**

Oil, water, grease, hydraulic fluid, alcohol

ACU INDEX



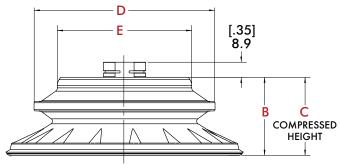


TC/HT Dimensions

Model	Α	В	С	D	E	Weight
[20 TC]	[2.06]	[1.02]	[.68]	[1.64]	[1.25]	[1.3 oz]
50 HT	52.3	25.7	17.3	41.7	31.8	37 g
[35 TC]	[3.50]	[1.71]	[.82]	[2.50]	[1.65]	[2.6 oz]
90 HT	88.9	43.44	20.8	63.5	41.9	73 g
[45 TC]	[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
[55 TC]	[5.50]	[1.81]	[.87]	[4.00]	[3.04]	[7.2 oz]
140 HT	139.7	46.1	22.1	101.4	77.1	204 g

Dimensions shown "mm [inch]"

[.87]22.0



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]"

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

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)
	CPL-55TC-(M)-(DP)

(M) = Mounts Available











A B C

(M) = Mounts Available

Vacuum Products | Dimensions | Technical Specifications

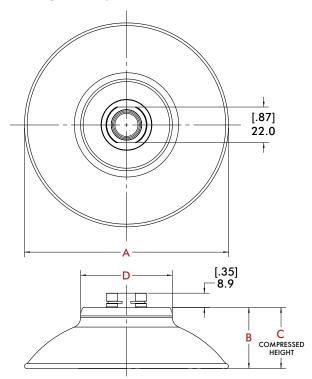
Specifications:

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

E	_별 OILY/SLICK	LESS	MORE
ROME	CONTOUR	LESS	MORE
을 C	UP LONGEVITY	LESS	MORE
	of EditoEviii		

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20	LESS	MORE
4	CUP LONGEVITY	

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SURFACE NOTINO CONTOU	LESS	MORE
S CUP LONGEVIT	LESS	MORE

FF/PF Round Flatfoot

Model	Α	В	С	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-50EE-(M)-(DP)

(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



Vacuum Products | Dimensions | Ordering Information

AC/BT Round Belcup



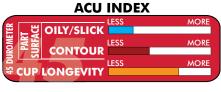
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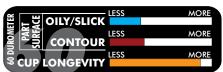
Temperature:

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





[.87]22.0 mm [INCH] THIRD ANGLE PROJECTION [.35]COMPRESSED

AC/BT Round Belcup

Model	Α	В	С	D	Е	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]
D : :	. "	r• 1 1//				

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]

HEIGHT

Holding capacities shown "N [lbf]"

Metric

(DR) = Durometer

45 60 (M) = Mounts Available

A B C M10

AC/BT Round Belcup Vacuum Cups Ordering Information

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)

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 45 60













Vacuum Products | Dimensions | Ordering Information

DD/DM Round Deepdish

Specifications:

Temperature:

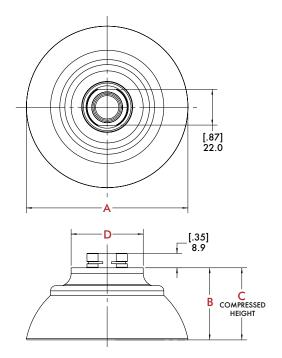
15-59 Sec: -20° to 250° F [-29° to 121° C] 1-5 min: 15° to 180° F [-9° to 82° C]

Material: Nitrile Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol







ACU INDEX | STATE | S

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2 CON FONG	LESS	MORE
4 COL CONO		

DD/DM Round Deepdish

Model	Α	В	С	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

Ø4.00" CPI-40DD-(M)-(DR)

(DR) = Durometer

30 45

(M) = Mounts Available

K B C

Me	tric	
Ø5	0m	ı

Ø50mm CPI-50DM-(M)-(DR) **Ø75mm** CPI-75DM-(M)-(DR) **Ø100mm** CPI-100DM-(M)-(DR)

(DR) = Durometer







Vacuum Products | Dimensions | Ordering Information

FF/PF Oval FlatFoot



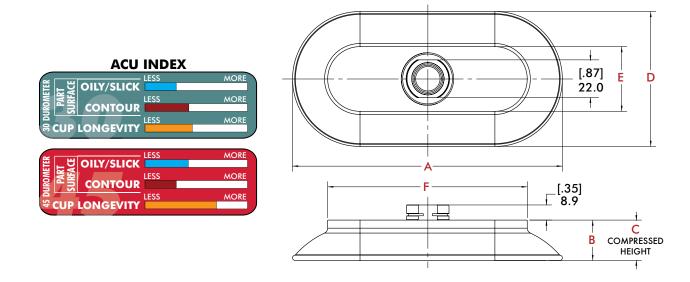
Specifications:

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

FF/PF Vacuum Cup Capacities:

Model	Α	В	С	D	Е	F	Weight	Appl.	Hor. Dry	Hor. Wet	Ver. Lift
40-75PF	76.2	22.3	16.2	38.1	22.2	60.3	35 g	40-75PF	6.8 kg	2.3 kg	8.2 kg
[153FF]	[3.00]	[.88]	[.64]	[1.50]	[.88]	[2.37]	[1.2 oz]	[153FF]	[15 lb]	[5 lb]	[18 lb]
50-100PF	101.6	23.8	16.2	50.8	22.2	73.0	119 g	50-100PF	8.2 kg	2.7 kg	19.1 kg
[24FF]	[4.00]	[.94]	[.64]	[2.00]	[.88]	[2.88]	[4.2 oz]	[24FF]	[18 lb]	[6 lb]	[42 lb]
60-125PF	127.0	22.3	16.2	63.5	22.2	85.7	147 g	60-125PF	20.4	3.2 kg	25 kg
[255FF]	[5.00]	[.88]	[.64]	[2.50]	[.88]	[3.38]	[5.2 oz]	[255FF]	[45 lb]	[7 lb]	[55 lb]
75-150PF	152.9	25.4	18.3	76.2	38.1	114.3	201 g	75-150PF	24.9	4.1 kg	32.7 kg
[36FF]	[6.00]	[1.00]	[.72]	[3.00]	[1.50]	[4.50]	[7.1 oz]	[36FF]	[55 lb]	[9 lb]	[72 lb]
Dimensions show	Dimensions shown "mm [inch]" Holding capacities shown "N [lbf]"										

Metric

FF/PF Oval FlatFoot Vacuum Cups Ordering Information

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)

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 30 45 (M) = Mounts Available

B C D (24FF) E1 (24FF)

(**DR**) = Durometer 30 45 (M) = Mounts Available A B C 63≥1250€



Vacuum Products | Dimensions | Ordering Information

DD/DM Oval Deepdish

Specifications:

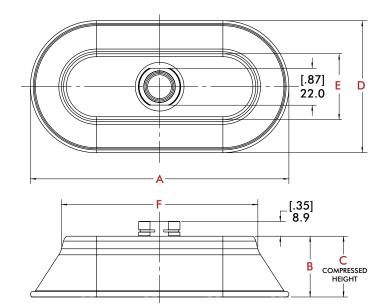
Temperature:

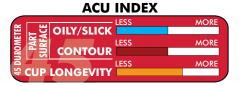
15-59 Sec: -20° to 250° F [-29° to 121° C] 1-5 min: 15° to 180° F [-9° to 82° C]

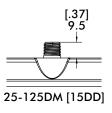
Material: Nitrile Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol









DD/DM Oval Deepdish

Model	Α	В	С	D	Е	F	Weight
25-125DM	128.7	17.1	8.7	27.0	12.9	114.5	35 g
	[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

25 x 125mm CPI-25-125DM-(M)-(45) 75 x 150mm CPI-75-150DM-(M)-(45)





Metric



Vacuum Products | Dimensions | Ordering Information

MFF Round Flat



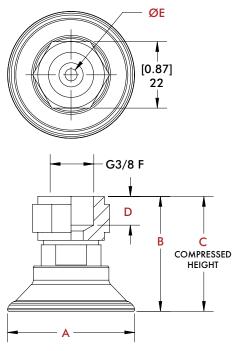
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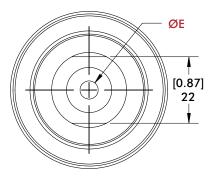
Temperature:

Resistant up to 250° C [482° F] (sheet metal temperature) Material: Silicone free HT2

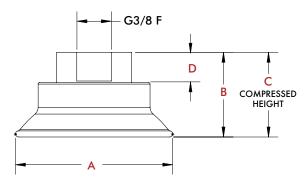
Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol









MFF Dimensions

Model	Α	В	С	D	Е	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
50 MFF	[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

MFF Holding Capacity @ -0.6 bar vacuum

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

Holding capacities shown "N [lbf]"

Dimensions shown "mm [inch]"

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



Vacuum Products | Dimensions | Ordering Information

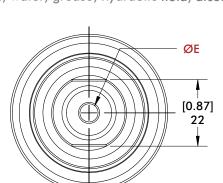
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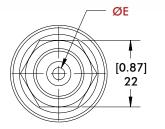
Temperature:

Resistant up to 250° C [482° F] (sheet metal temperature) Material: Silicone free HT2

Chemical Resistance:

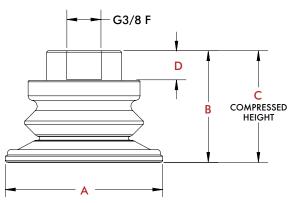
Oil, water, grease, hydraulic fluid, alcohol

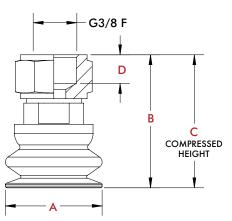






MTC Round Bellows





MTC Dimensions

Dimensions shown "mm [inch]"

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

MIC HOIG	ling Capacit	y @ -0.6 bar vacuum			
Appl.	Vert. Lift	Horz. Dry	Horz. Wet		
22 MTC	[3.6]	[4.0]	[1.3]		
	16	18	6		
30 MTC	[4.9]	[6.7]	[2.9]		
	22	30	13		
40 MTC	[8.5]	[8.1]	[7.4]		
	38	36	33		
50 MTC	[11.9]	[12.4]	[11.7]		
	53	55	52		
60 MTC	[18.4]	[18.4]	[17.3]		
	82	82	77		

Holding capacities shown "N [lbf]"

MTC Round Bellows Ordering Information

Metric

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

Vacuum Products | Dimensions | Ordering Information

MFF Oval Flat



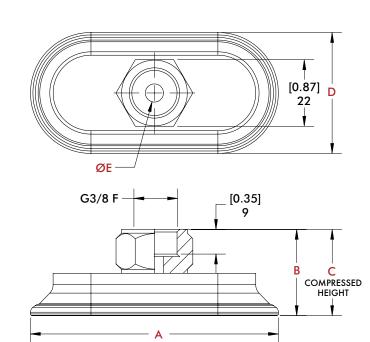
Specifications:

Temperature:

Resistant up to 250° C [482° F] (sheet metal temperature) Material: Silicone free HT2

Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol





mm [INCH]

MI DILLICIES	10113					
Model	Α	В	С	D	E	Weight
6023 MFF	[2.52] 64	[1.02] 26	[0.91] 23	[0.98] 25	[0.24]	[1.57 oz] 44.6 g
9030MFF	[3.70] 94	[1.06] 27	[0.94] 24	[1.34] 34	[0.24]	[2.42 oz] 68.5 g
8040 MFF	[3.35] 85	[1.10] 28	[0.94] 24	[1.69] 43	[0.24]	[2.30 oz] 65.1 g
10050MFF	[4.17] 106	[1.22] 31	[1.02] 26	[2.13] 54	[0.31]	[3.68 oz] 104.2 g

Dimensions shown "mm [inch]"

MFF Holding Capacity @ -0.6 bar vacuum

MI I Holding	1000111		
Appl.	Vert. Lift	Horz. Dry	Horz. Wet
6023 MFF	[12.8]	[8.3]	[7.4]
	57	37	33
9030 MFF	[27.4]	[21.6]	[14.4]
	122	96	64
8040 MFF	[31.5]	[24.7]	[22.5]
	140	110	100
10050MFF	[48.8]	[40.7]	[27.2]
	217	181	121

Holding capacities shown "N [lbf]"

MFF Oval Flat Ordering Information

Metric	
Ø 60x23mm	CPI- 6023MFF -B-HT
Ø 90x30mm	CPI- 9030MFF -B-HT
Ø 80 x40mm	CPI- 8040MFF -B-HT
Ø100 F0	CDI 100E0MEE D LIT



Vacuum Products | Dimensions | Ordering Information

MAC Oval Bellows

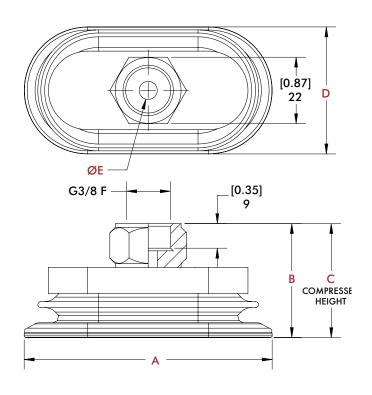
Specifications:

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

WAC DIFFICIONS								
Model	Α	В	С	D	E	Weight		
6030 MAC						[2.32 oz] 65.9 g		
8040 MAC	[3.27] 83	[1.48] 37.7	[1.13] 28.7	[1.69] 43	[0.24]	[2.78 oz] 78.7 g		

Dimensions shown "mm [inch]"

MAC Holding Capacity @ -0.6 bar vacuum

Model	Vert. Lift	Horz. Dry	Horz. Wet
6030 MAC	[8.5]	[12.8]	[11.7]
	38	57	52
8040 MAC	[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

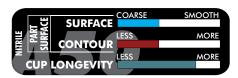
[-73° to 204.4° C] Nitrile: -40° to 275° F

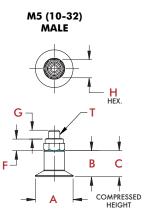
[-40° to 135° C] Durometer: A50

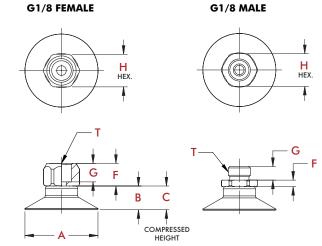
ACU INDEX















Silicon Extremely hot or cold environments

Nitrile General Purpose



VC-F Micro Fitting Threads

Ø15 and Ø20mm

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

VC-F Dimensions

Model	Α	В	С	CUP WT	LOAD
VC-F15	16.5	11.4	10.4	3.4 g	.85 kg
VC-F13	[.65]	[.45]	[.41]	[.11 oz]	[1.88 lb]
VC- F20	22.1	8.6	7.1	7.8 g	1.47 kg
VC-F20	[.87]	[.34]	[.28]	[.25 oz]	[3.25 lb]
VC- F30	32.0	10.4	8.1	6.2 g	2.55 kg
VC-F30	[1.26]	[.41]	[.32]	[.20 oz]	[5.63 lb]
VC- F40	42.2	14.0	11.4	11.8 g	4.08 kg
VC-F40	[1.66]	[.55]	[.45]	[.38 oz]	[9.00 lb]
VC- F50	53.1	17.5	14.5	19.6 g	7.54 kg
VC-F30	[2.08]	[.69]	[.57]	[.63 oz]	[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 10M (18M) (18F) Not Available in Only Available in



25

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:

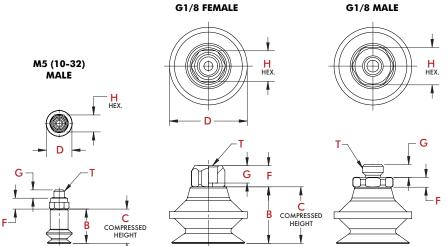
Viton: -40° to 450° F [-40° to 232° C]

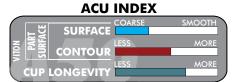
Silicone: -100° to 400° F

[-73° to 204.4° C] Nitrile: -40° to 275° F

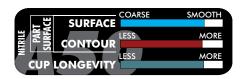
[-40° to 135° C] Durometer: A50











VC-B Micro Fitting Threads

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

(DR) = Durometer/Material





Nitrile General Purpose

VC-B Dimensions

Model	Α	В	С	D	Cup Wt	Load
VC- B05	5.6	9.1	7.6	6.1	5.8 g	.04 kg
VC-В03	[.22]	[.36]	[.30]	[.24]	[.09 oz]	[.10 lb]
VC- B10	10.9	16.0	11.4	12.2	3.4 g	.39 kg
AC-RIO	[.43]	[.63]	[.45]	[.48]	[.11 oz]	[.87 lb]
VC- B15	16.0	19.8	13.2	17.5	3.7 g	.57 kg
VC-В13	[.63]	[.78]	[.52]	[.69]	[.12 oz]	[1.25 lb]
VC- B20	22.4	17.5	7.6	23.9	6.2 g	1.02 kg
VC-B20	[.88]	[.69]	[.30]	[.94]	[.20 oz]	[2.25 lb]
VC P20	34.0	26.4	11.4	36.3	11.5 g	.2.21 kg
VC- B30	[1.34]	[1.04]	[.45]	[1.43]	[.37 oz]	[4.88 lb]
VC- B40	42.9	27.4	12.4	46.2	18.7 g	3.97 kg
VC- B4U	[1.69]	[1.08]	[.49]	[1.82]	[.60 oz]	[8.75 lb]
VC- B50	52.8	34.5	14.5	59.4	30.5 g	6.63 kg
4C-B30	[2.08]	[1.36]	[.57]	[2.34]	[.98 oz]	[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



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





(DR) = Durometer/Material

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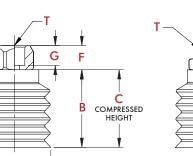
Silicon Extremely hot or cold environments

N

Nitrile General Purpose

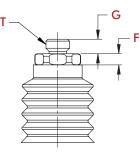
G1/8 FEMALE





G1/8 MALE





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)	2.8	5.8	14.2
(MALE)	[.11]	[.23]	[.56]
18F (G1/8)	9.9	6.4	14.2
(FEMALE)	[.39]	[.25]	[.56]

VC-BM Dimensions

Model	Α	В	С	Cup Wt	Load
VC-BM 20	20.1	21.9	8.9	5.3 g	.68 kg
VC-D/V(20	[.79]	[.86]	[.35]	[17 oz]	[1.50 lb]
VC-BM 30	30.0	30.7	10.7	10.3 g	1.64 kg
VC-D/V(30	[1.18]	[1.21]	[.42]	[.33 oz]	[3.63 lb]
VC-BM 40	39.8	40.9	12.9	19.6 g	2.21 kg
VC-D/V(40	[1.57]	[1.61]	[.51]	[.63 oz]	[4.88 lb]
VC-BM 50	50.0	51.1	23.1	32.7 g	4.37 kg
*C-D//(30	[1.97]	[2.01]	[.91]	[1.05 oz]	[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 10M 18M 18F

Only Available in Ø20mm



MAGNETS

Vacuum Products | Dimensions | Ordering Information

Features:

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

Benefits:

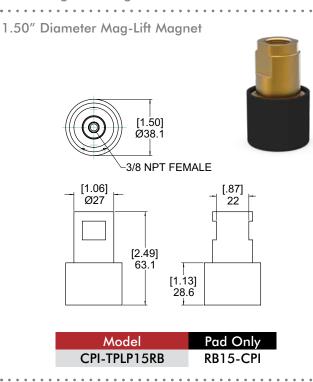
 NPT mount allows retrofit to existing assemblies. **TPLP** Mag-Lift Part Lifting Magnets

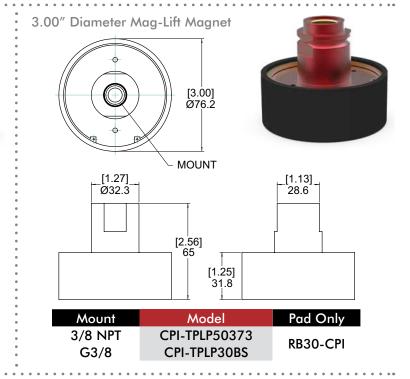
Specifications:

Recommended Operating Pressure:

2.4 bar [35 psi]

Port: 3/8" NPT Compressed Air Port Material: Machined, Anodized Aluminum, Urethane Pad (50 durometer - low skid)





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

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



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ECOCUP SERIES

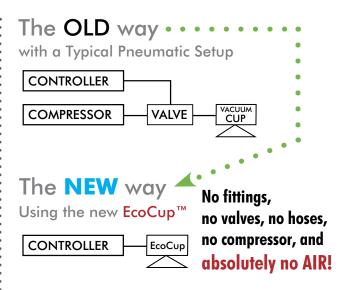
Vacuum Products | Product Overview | Technical Specifications | Dimensions

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

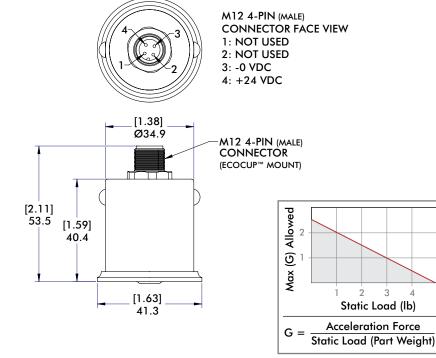


EcoCup™ EC40 Electric Vacuum Cup Assembly



US Patent #9108319

Specifications	VC-EC40-45N
Actuation Time	25 ms
Temperature Range	$5^{\circ} \sim 60^{\circ}\text{C} [41^{\circ} \sim 140^{\circ}\text{F}]$
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 Recommended Load VC-EC40-45N <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:

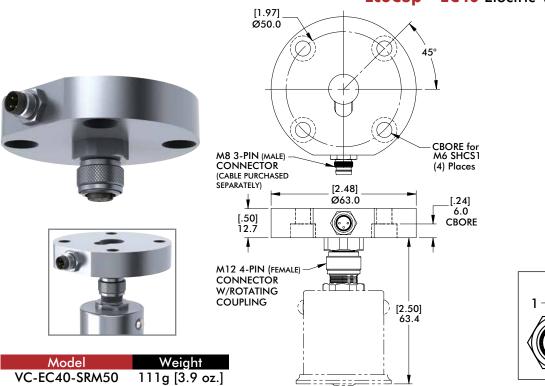
- 1. Set cup on smooth, flat surface of part.
- 2. Apply 24VDC to Pins 3 and 4 on M12 connector. (Center of cup lifts, creating vacuum)
- 3. Release voltage and part is released.

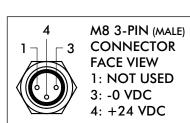


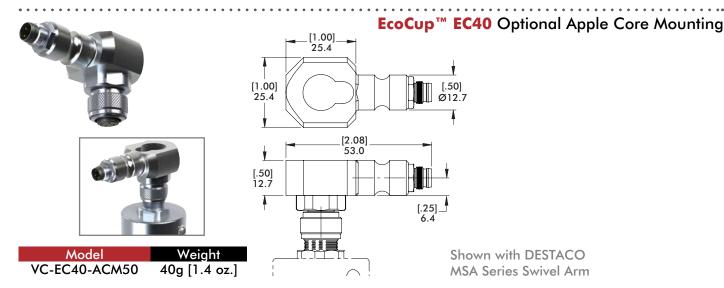
ECOCUP SERIES

Vacuum Products | Dimensions | Technical Specifications

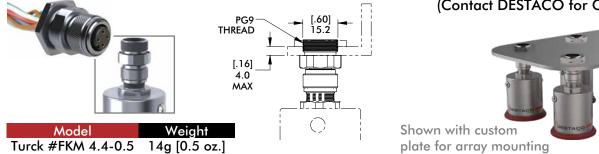
EcoCup™ EC40 Electric Vacuum Cup Assembly







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



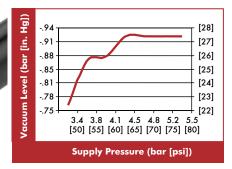
ARV AND VSA SERIES VENTURIES

Vacuum Products | Features and Specifications

ARV® Series Auto-Release Venturi Cup Mount



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

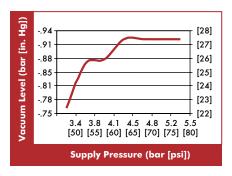
VSA Series Venturi Cup Mount



Blow-off typically requires two air lines and multiple valves. The VSA series offers a low-profile version as shown. Additional options includes 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 ft3]

(156 l/m [5.5scfm] @ 1 sec. duration)

Noise Level (At one meter): Inline to exhaust: 76dBA

Inline to exhaust with Silencer: 68dBA

Material: Aluminum



ARV SERIES VENTURIES

Vacuum Products | Dimensions | Ordering Information







Right Hand Apple Core 114g [0.25lb]



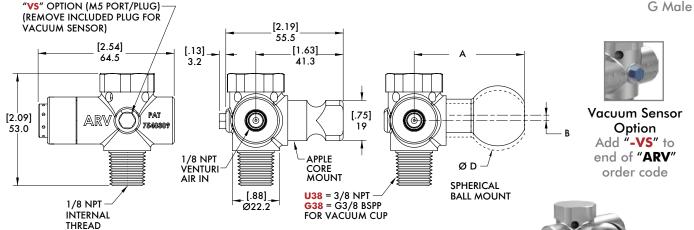
Without Apple Core 86g [019lb]



RH/LH Spherical Ball CPI-VSA-ARVR-750-(X) CPI-VSA-ARVR-000-(X) CPI-VSA-ARV(R/L)-B112-(X) CPI-VSA-ARV(R/L)-B32-(X)



Mounting **Thread** U38 = 3/8" NPT Male G38 = 3/8"



US Patents #7,540,309 - 7,681,603 - 7,950,422

Model Number	Α	В	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

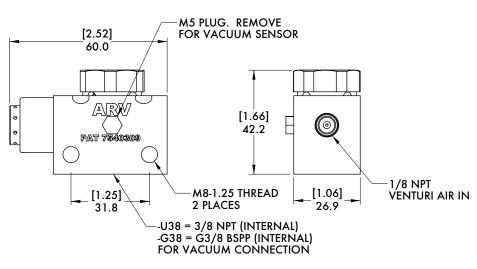
Venturi Style Vacuum Generator Cup Mounts

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]



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MICRO TOOLING VENTURI

Vacuum Products | Dimensions | Technical Specifications

VSA 500 Series MicroTool Apple Core

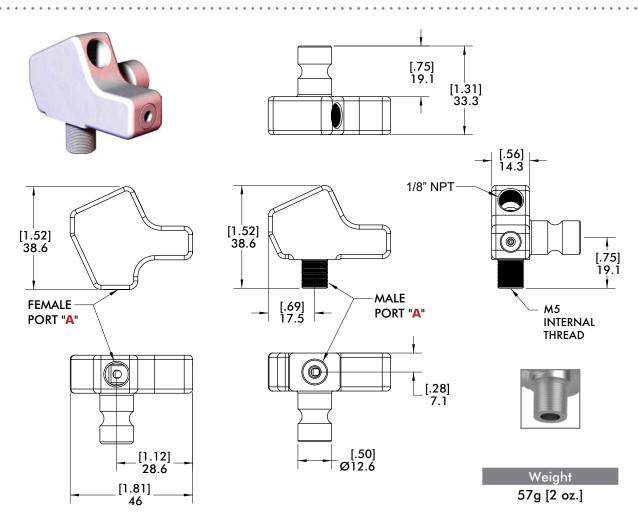


Features:

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

Benefits:

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



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

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

US Patents # 7,540,309 - 7,681,603 - 7,950,422



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



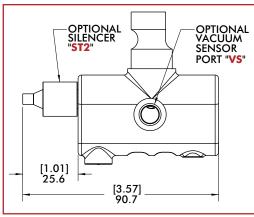
Low-Profile 750/19 with Blow Off with Detector Option CPI-VSA-(X)-BO-LP-DET

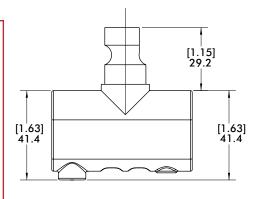


Low-Profile 750/19 with Blow Off with "VS" Option CPI-VSA-(X)-BO-LP-VS



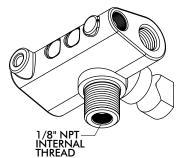
For Silencer Option; add "ST2" to the end of order code (as shown). CPI-VSA-(X)-BO-LP-VS-ST2

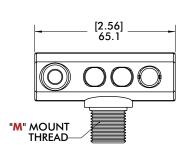


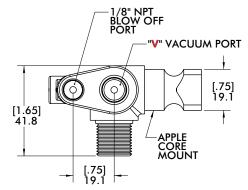




170g [6 oz.]







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

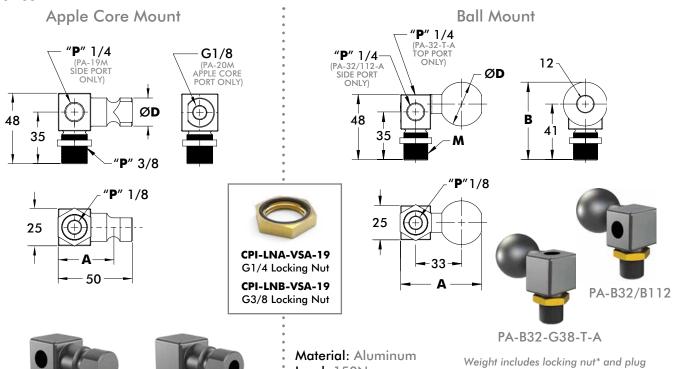
Version	Mount Thread "M"	Vacuum Port "V"	(X)
Metric	3/8" G Male	1/4" G	19
Imperial	3/8" NPT Male	1/4" NPT	750

ACCELERATE® PORT ONLY ADAPTORS

Vacuum Products | Dimensions | Technical Specifications



PA Series



PA-19M

PA-20M

Material: Aluminum Load: 150Nm

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

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

Load: 150Nm (not shown) *Except U38 models

Model Number	A	В	ØD	M	P	Weight
PA-B32-G38-A	[2.32] 59	[2.24] 57	[1.26] 32	G3/8	G	[0.23 lb] 103g
PA-B32-G38-T-A					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]	G3/8	G	[0.20 lb] 89g
PA-B112-U38-A			28	3/8 NPT	NPT	[0.18 lb] 80g

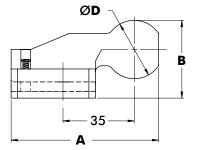
PA 28mm - 32mm Ball for C-Mount



Material: Aluminum

Load: 150Nm

	\mathcal{F} G 1	/8
5		16
		1
	 14 —	



Model Number	Α	В	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

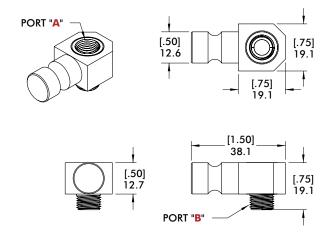


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MICRO TOOLING PORT ONLY ADAPTER

Vacuum Products | Dimensions | Technical Specifications

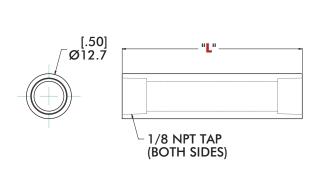
PA 500 Series



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

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



Vacuum Products | Dimensions | Technical Specifications

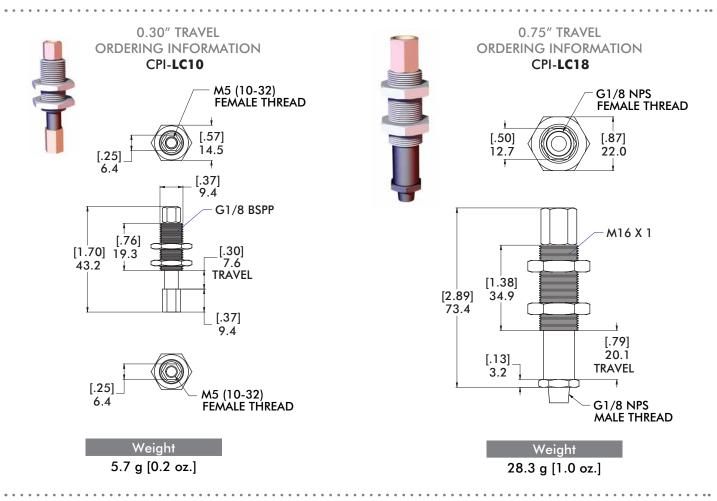
LC Bulk Head Style Micro Series Level Compensators



Specifications: Material: Aluminum

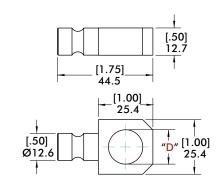
Features:

 M5 or G mounting threads and vacuum ports.



LCM Series Mount





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



Vacuum Products | Dimensions | Technical Specifications

RCM Bulkhead Style Standard Travel

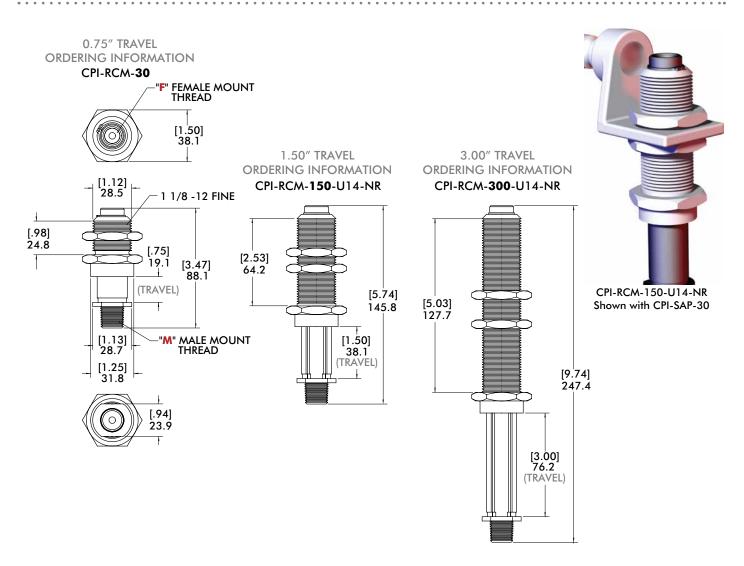
Features:

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

Specifications:

Material: Aluminum





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 = $340g [12 oz]$

Vacuum Products | Dimensions | Technical Specifications | Ordering Information

SCM Apple-Core Style

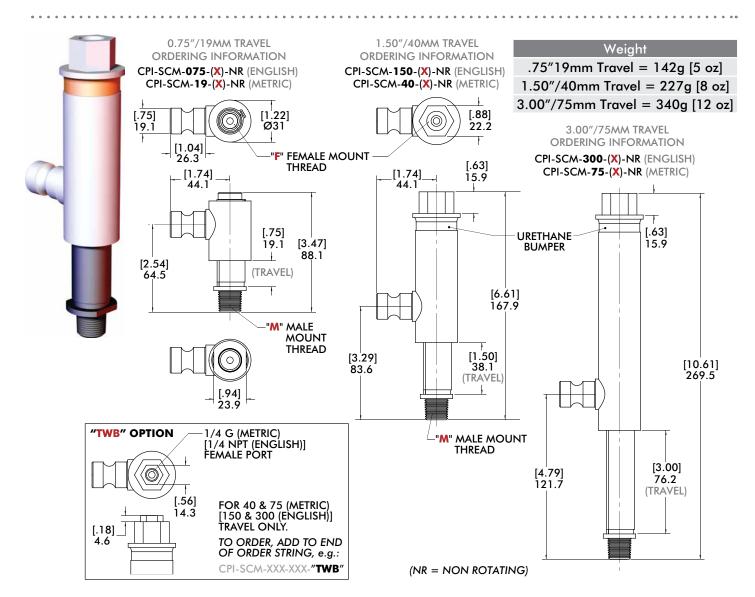


Specifications:

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.



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

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



Vacuum Products | Features and Options

TCL T-Clamp Ø1.00" (in)

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.





CPI-SCM(B)-"T"



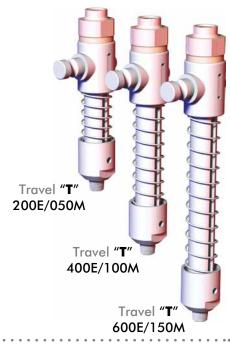
Ø1.25" Bulkhead Style • Ø0.75" Apple Core Style • CPI-SCM(A)-"T"



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



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



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"

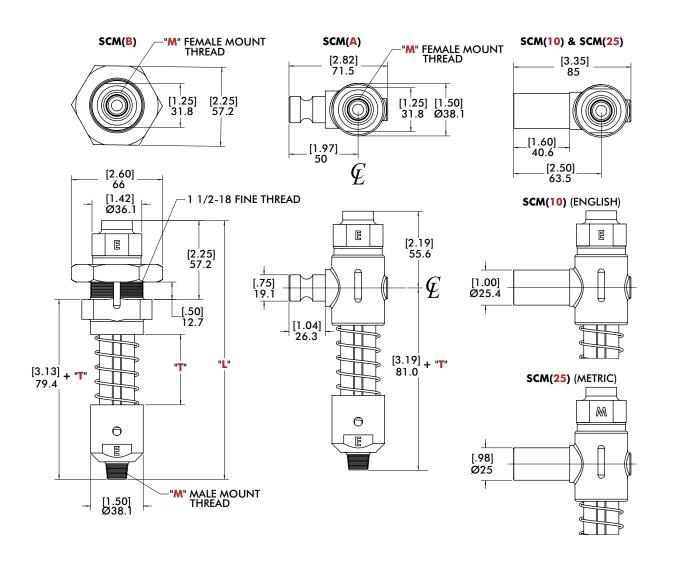




SPRING LOADED VACUUM CUP MOUNTS

Vacuum Products | Extended Travel Dimensions

SCM Bulkhead/Apple Core/Extension Style



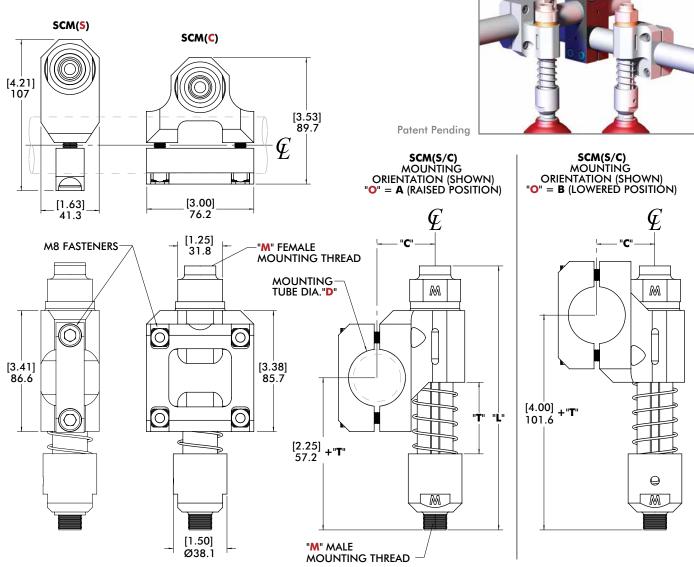
SCM Travel and Length - CPI-SCM(X)-"T"

July Haver alla	congin - Ci i-5C/M(X)-			
Version	Travel " T "	L	М	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]



Vacuum Products | Extended Travel Dimensions

SCM Tube Mounted



Model	С
CPI-SCM C	41.3 [1.63]
CPI-SCM S	54.1 [2.13]

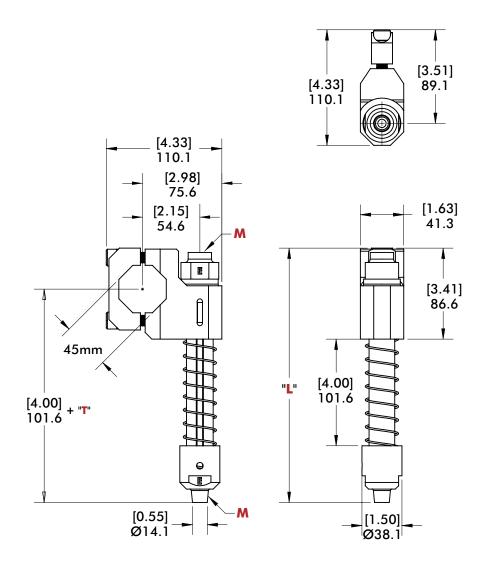
SCM Travel and Length - CPI-SCM(X)-"D"-"T"-"O"

Ve	ersion	Travel " T "	L	M	D	Weight
lm	perial	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]	
٨	Netric	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



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

Version	Travel " T "	L	М	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:

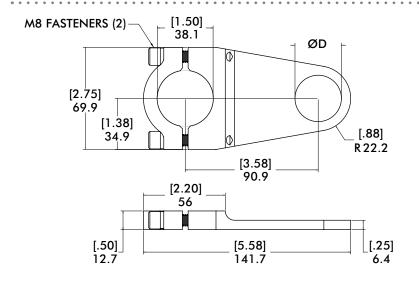
Material: Aluminum

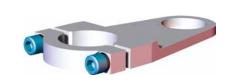
Features:

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



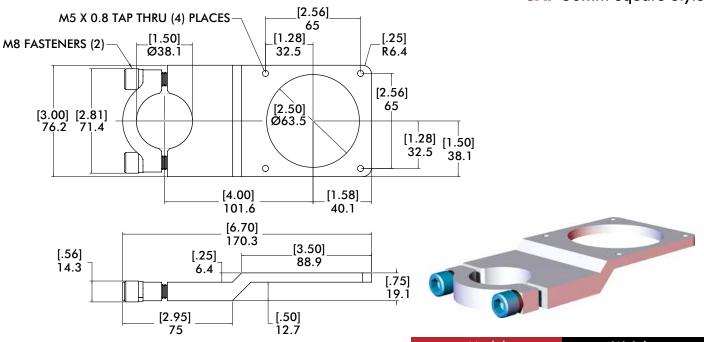
SAP 30mm Barrel Style





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 CPI-SAP-NI50-PM-150

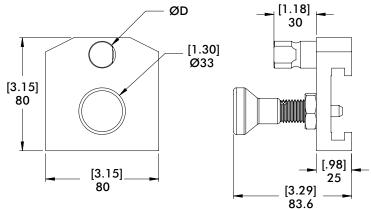
Weight .23 kg [.56 lb]

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]



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. [US Patent #4,662,668]
- · 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

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)

US/INTL Patents: 6,988,696 / 7,281,739 / 1,921,031

Mounting Style

SCM10 Ø1.00" Extension Mount SCM25 Ø25mm Extension Mount

SCMB Bulkhead Mount

Vertical Travel (T) (See pages 46-47)

2.00 in. with NPT Vacuum Port (Except -HD)

Heavy-Duty (SCMB (Double Pogo) only)

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)

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)



EE-VAC

Vacuum Products | Dimensions | Technical Specifications

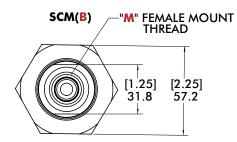
DBD Bulkhead/Extension Style Dimensions

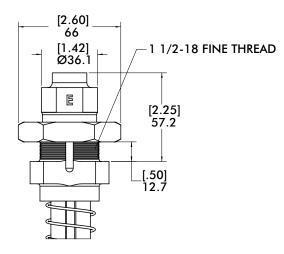


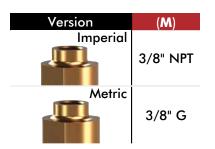
SCMB Ø1.25" Thru Hole **Bulkhead Mount**



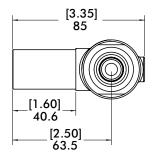
SCM10/25 Ø1.00"/25mm **Extension Mount**

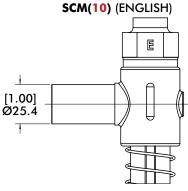


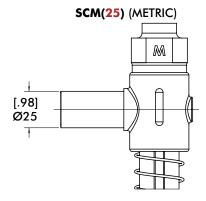




SCM(10) & SCM(25)







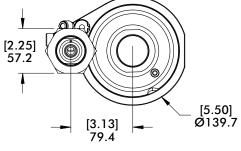


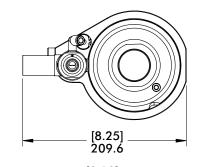
Vacuum Products | Dimensions | Technical Specifications

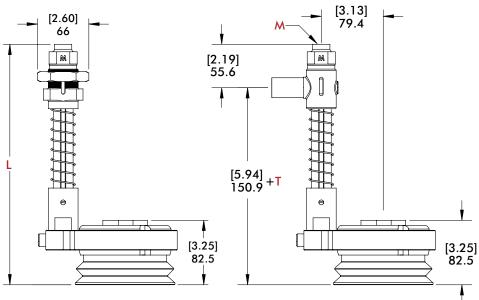
DBD Bulkhead/Extension Style

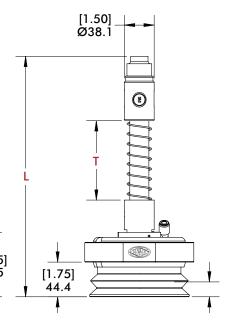












DBD Travel and Length - CPI-DBD-(X)-SCM(X)-(T)

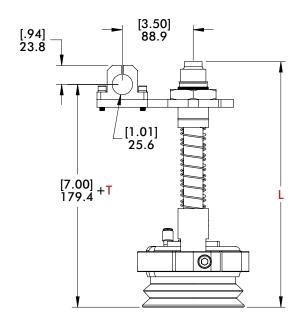
Version	Vertical Travel (T)	(L)	(M)	Weight
Imperial	200E (2.00")	257.1 [10.12]	3/8" NPT	.85kg [1.87 lb]
	400E (4.00")	307.9 [12.12]		.90kg [1.97 lb]
	600E (6.00")	358.7 [14.12]		.94kg [2.08 lb]
Metric	050M (50mm)	257.1 [10.12]	3/8" G	.85kg [1.87 lb]
	100M (100mm)	307.9 [12.12]		.90kg [1.97 lb]
	150M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

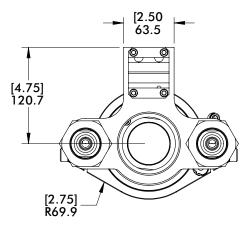
Vacuum Products | Dimensions | Technical Specifications

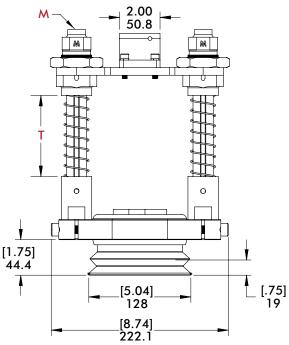
DBD Heavy Duty (Double Pogo)











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 Metric	100M (100mm)	307.9 [12.12]		3.06kg [6.75 lb]
	150M (150mm)	357.9 [14.09]	3/8" G	3.16kg [6.97 lb]
	200M (200mm)	405.9 [15.98]		3.23kg [7.12 lb]

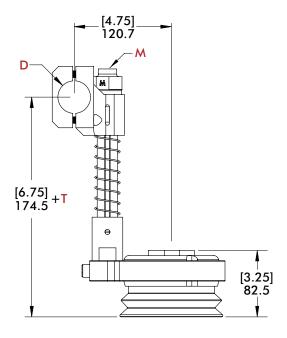
BODYBUILDER™ DOUBLE BLANK DETECTOR SPRING MOUNTS

Vacuum Products | Dimensions | Technical Specifications

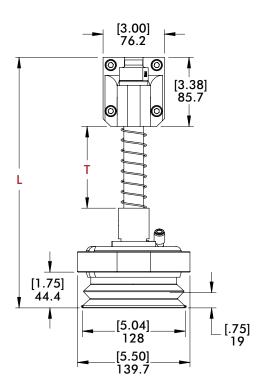
DBD Ø1.25"/40mm Tube Mount







[5.83] 148 [8.45] 214.7



X=Sensor Size

42 Ø42mm Ø54mm

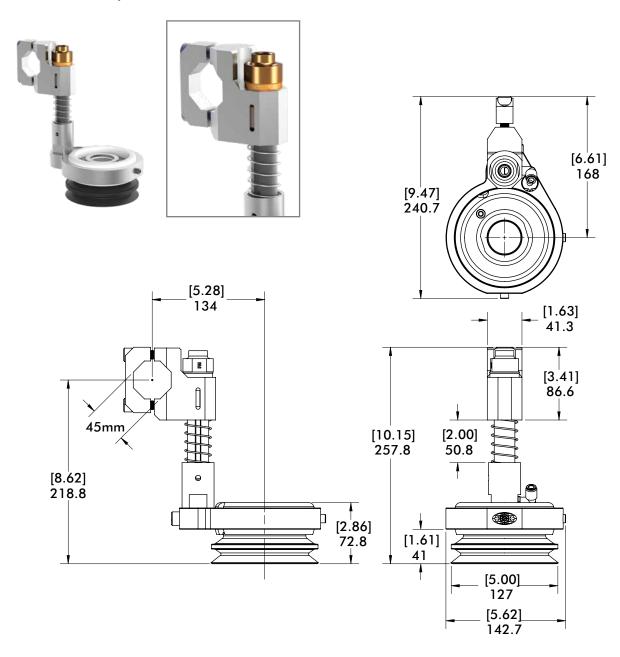
(Sensors not Included)

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]			.85kg [1.87 lb]
9	400E (4.00")	311.1 [12.25]	3/8" NPT	150 (Ø1.50")	.90kg [1.97 lb]
	600E (6.00")	369.9 [14.21]			.94kg [2.08 lb]
Metric	050M (50mm)	261.1 [10.28]			.85kg [1.87 lb]
9	100M (100mm)	311.1 [12.25]	3/8" G	40M (Ø40mm)	.90kg [1.97 lb]
	150M (150mm)	369.9 [14.21]			.94kg [2.08 lb]

Vacuum Products | Dimensions | Technical Specifications

DBD Ø45mm BodyBuilder Mount



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

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



VACUUM PRODUCTS

Notes



Vacuum Products | Dimensions | Technical Specifications

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



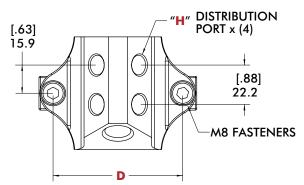
Features:

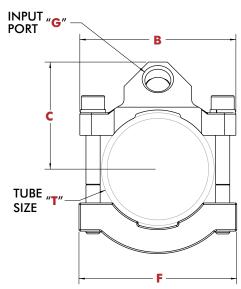
- 30° Angled input port.
- Provides a 4-port air distribution system mount on the boom.

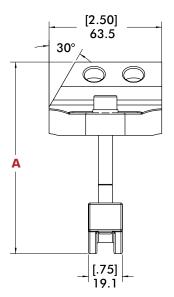
Specifications:

Material: Aluminum









MBC/MLK Dimensions

Model	Α	В	С	D	F	G	Н	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]



Vacuum Products | Dimensions | Technical Specifications

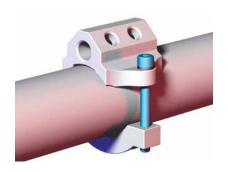
MBC/MLK Boom Mounted Single 4-Port

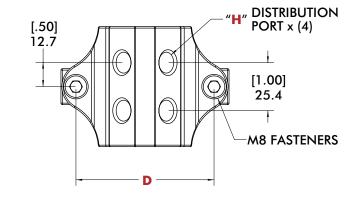
Specifications:

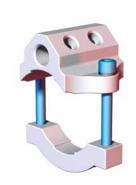
Material: Aluminum

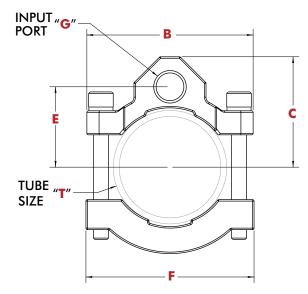
Features:

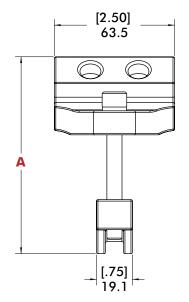
- Provides a 4-port air distribution system mount on the boom.
- Available in two sizes to allow clamping to Ø40mm [Ø1.50"] and Ø60mm [Ø2.50"] materials.









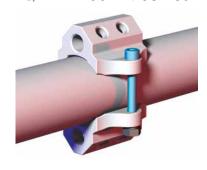


MBC/MLK Dimensions

Model	Α	В	С	D	E	F	G	Н	Т	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]

Vacuum Products | Dimensions | Technical Specifications

MBC/MLK Boom Mounted Double 8-Port

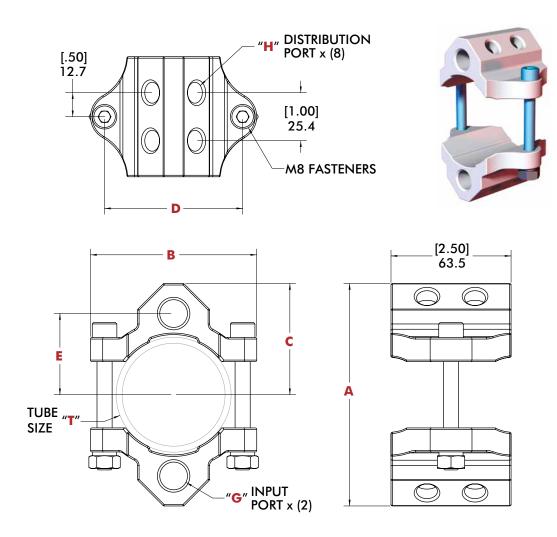


Features:

- 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	Α	В	С	D	Ē	G	Н	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	117.6	87.9	58.8	73.0	42.9	3/8 G	1/4 G	Ø60MM	510g
[CPI-MBC-250-8-8]	[4.63]	[3.46]	[2.32]	[2.88]	[1.69]	[3/8 NPT]	[1/4 NPT]	[Ø2.50"]	[18 oz]



Vacuum Products | Dimensions | Technical Specifications

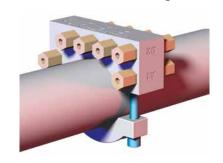
MBC Boom Mounted Single 6-Port

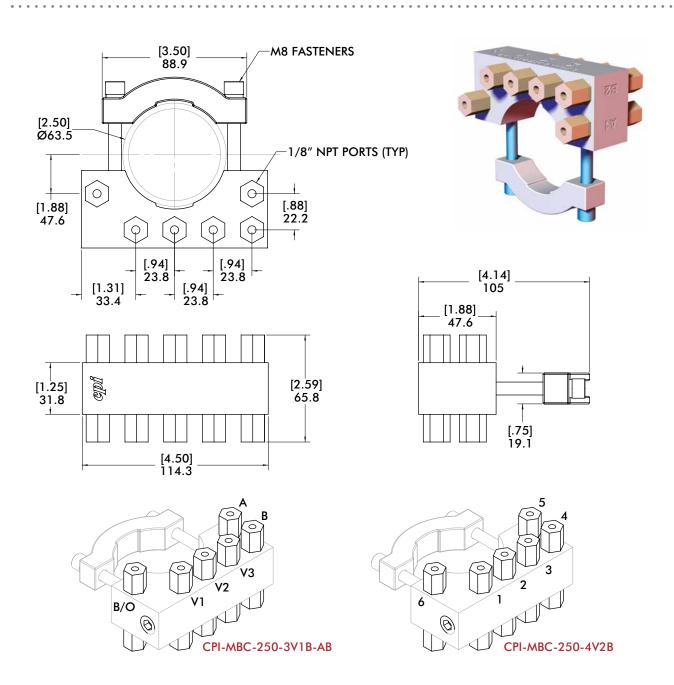
Specifications:

Material: Aluminum

Features:

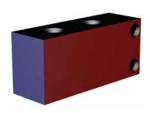
- Provides a 6-port air distribution system mounted on the boom.
- Easy access.





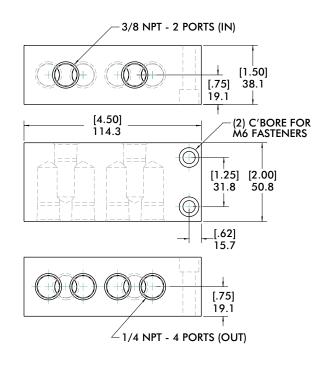
Vacuum Products | Dimensions | Technical Specifications

GDA/MBB Block Style for Remote Mounting



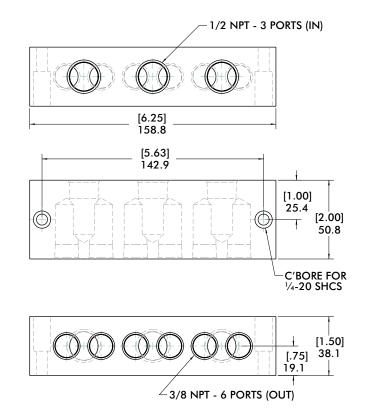
Material: Aluminum







Material: Aluminum

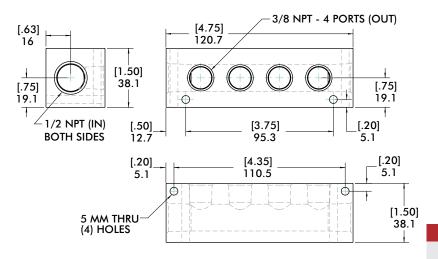


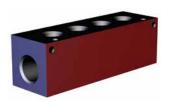




Vacuum Products | Dimensions | Technical Specifications

MMB Block Style or Remote Mounting

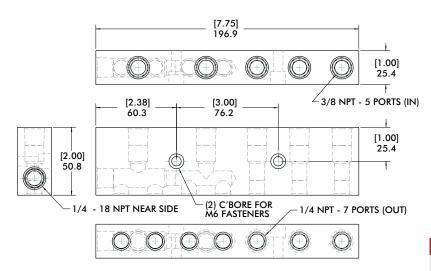




Material: Aluminum

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

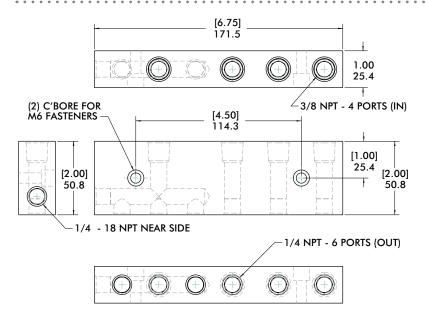
MMB Block Style or Remote Mounting





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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