



VACUUM CUPS





VFB Series

- Single bellows suction cup
- 5mm-150mm Diameter
- Black nitrile rubber (NBR)
- Red silicone rubber
- White silicone rubber
- Push on / Pull off fittings

1.05



B1.5 Series

- Single bellows suction cup
- 11mm-53mm Diameter
- Black nitrile rubber (NBR)
- White silicone rubber
- Push on / Pull off fittings

1.17



PGJ Series

- Single bellows suction cup
- 6mm-50mm Diameter
- Black nitrile rubber (NBR)
- White silicone rubber

1.27



B2.5 Series

- Single bellows suction cup
- 5mm-60mm Diameter
- Black nitrile rubber (NBR)
- White silicone rubber
- Push on / Pull off fittings

1.38



VFDB Series

- 2.5 bellows suction cup
- 20mm-70mm Diameter
- Single Durometer PU
- Double Durometer PU
- Push on / Pull off fittings

1.49



VFBL Series

- 4.5 bellows suction cup
- 5mm-50mm Diameter
- Black nitrile rubber (NBR)
- Red silicone rubber
- White silicone rubber
- Push on / Pull off fittings

1.56



SBLP Series

- 4.5 bellows suction cup
- 30, 40, 50mm Diameter
- Red silicone rubber
- Push on / Pull off fittings

1.61



STC Series

- Single bellows suction cup
- 22mm-125mm Diameter
- 45 Durometer rubber
- 60 Durometer rubber
- Vulcanized fittings

1.65



SBF Series

- Single bellows suction cup
- 30mm-100mm Diameter
- 70 Durometer rubber
- Vulcanized fittings

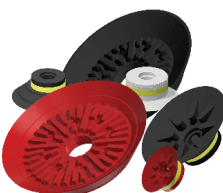
1.74



SOB Series

- Single bellows oval cup
- 45 Durometer rubber
- 60 Durometer rubber
- Vulcanized fittings

1.81



VFF Series

- Flat cleated suction cup
- 15mm-150mm Diameter
- Black nitrile rubber (NBR)
- Red silicone rubber
- White silicone rubber
- Push on / Pull off fittings

1.88



PFG Series

- Flat cleated suction cup
- 15mm-150mm Diameter
- Black nitrile rubber (NBR)
- Red silicone rubber
- White silicone rubber
- Push on / Pull off fittings

1.98



STP Series

- Flat crested suction cup
- 30mm & 60mm Diameter
- Ultra thin pick up lip
- Silicone rubber
- Push on / Pull off fittings

1.92



SFF Series

- Flat crested suction cup
- 30mm-125mm Diameter
- 45 Durometer rubber
- 60 Durometer rubber
- Vulcanized fittings

1.101



SOF Series

- Flat oval suction cup
- 30mm & 60mm Diameter
- 45 Durometer rubber
- 60 Durometer rubber
- Vulcanized fittings

1.102



SOP & SNP Series

- Foam rubber vacuum cups
- Round and rectangular models
- Up to 220mm Diameter

1.118



Cup Fittings



Level Compensators

There are various reasons for choosing a particular vacuum cup material. The first choice is normally the hardness. This will determine the ability of a vacuum cup to seal against the surface of the product being handled. The most commonly used hardness measurement scale is Shore Hardness, often referred to as Durometer. In fact, a durometer is the actual instrument used to measure hardness but is often referred to as the measuring unit throughout industry.

There are different hardness scales based on the materials being measured, such as plastics or rubbers or metals. The scale used to identify the hardness of vacuum cup materials is Durometer Scale A, which ranges from 100 (hard) to 5 (soft). Vacuum cups are typically available in compounds with a hardness between 35 to 70 Durometer.

Another, sometimes very important characteristic of a vacuum cup material, is the temperature resistance. Most pick-and-place applications occur at "room temperature", but in the plastic injection industry for example, part temperature is often considered in vacuum cup choice due to the high temperature of parts being removed from the mold tool. At the other end of the scale is the handling of cold products, such as refrigerated or frozen food packaging. Typical vacuum cup materials have a temperature range from -40°C to 204°C (-40°F to +400°F).

NBR (Vacuforce code suffix N) is the most common material and is the same as **Nitrile rubber and Buna-N**. NBR is used in general industrial applications and is found in steel handling, plastics handling, and any other application where the cup should be resistant to oils and related chemicals. In most applications, this is the "go-to" material choice based on its fair cost and good wear resistance. The hardness of this compound is typically 60 durometer, although this can be as low as 40 or as high as 70. NBR is often overlooked for high temperature applications such as injection molding as the user specifies a very high temperature and therefore opts for silicone. NBR is suitable for most plastic injection parts handling as its temperature rating is often in excess of 90°C/200°F.

SILICONE (Vacuforce code suffix S & ST) is a very popular cup compound found in many applications. Silicone offers the advantage of having extreme temperature resistance both cold and hot, ideal for handling frozen packaged food and hot plastic-injected molded parts with a temperature range from -40°C (-40°F) to 204°C (400°F). Silicone is softer than NBR, having a typical Durometer rating of 40, allowing it to seal against contoured or rough surfaces, such as cardboard sheet, corrugated plastic, and plastic food packaging. Vacuforce silicone is offered as standard with FDA (title 21) compliance to allow direct contact with food and drug products. Vacuforce Code S - Red Silicone, Vacuforce Code ST - White Translucent.

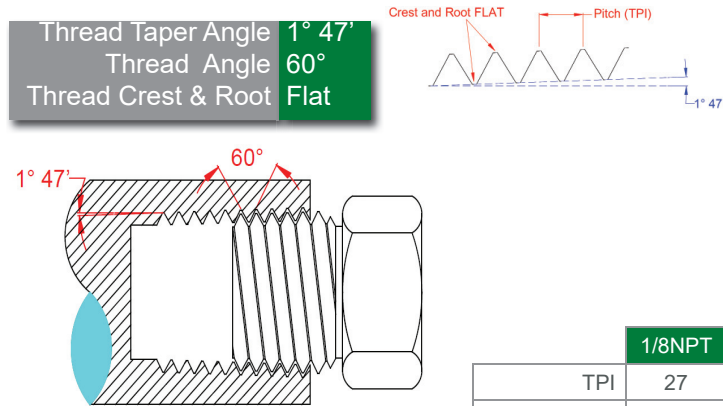
METAL IMPREGNATED SILICONE (Vacuforce code SMI & STMI) has the same basic characteristics as the standard silicone described above, but the metal impregnated compound has been design specifically for the food industry. Iron filings inside the actual silicone compound allow metal detectors to sense that a vacuum cup has fallen into the food packaging that contains food stuffs like bread loaves, rolls, and buns or confectionery foodstuffs. Vacuforce Code SMI - Red Silicone, Code STMI - White Translucent.

An important note about silicone that must be understood by the vacuum cup user. Silicone should never be used on surfaces which are to be painted, such as automotive body panels, as the paint will not bond properly on the area touched by the silicone compound cup. Also, it should not be used to handle decorative stone such as marble or quartz, or glass products as it will permanently etch the surface.

In the pneumatics and vacuum industry there are 4 types of popular thread forms in use today. This page highlights the technical data of each which should be understood when applying vacuum cup fittings shown in this catalogue to applications found in the field.

National Pipe Taper (NPT)

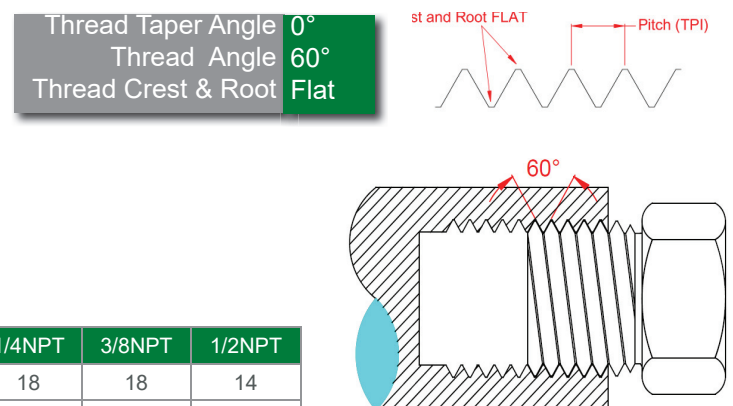
Referred to as NPT, this American pipe thread is by far the most common thread used in American made fluid power components and is the standard thread in the USA and Canada. This tapered thread seals using a thread sealant or tape. The Pneuforce NPT male threaded fittings have a pre-applied thread sealant to allow speed of connection to female threaded ports.



	1/8NPT	1/4NPT	3/8NPT	1/2NPT
TPI	27	18	18	14
Major Ø (mm)	10.3	13.7	17.1	21.3
Pitch (mm)	0.94	1.41	1.41	1.81

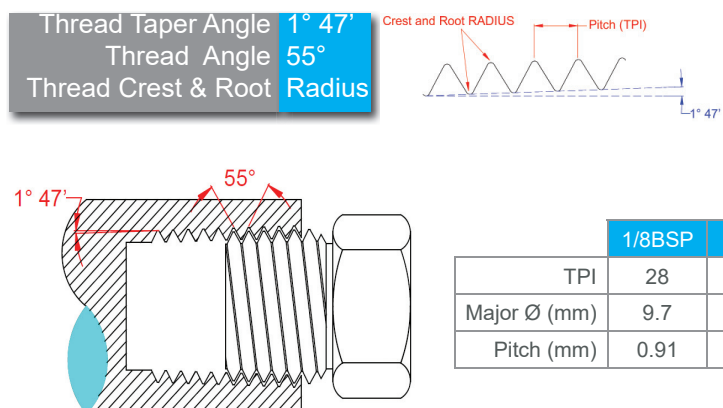
National Pipe Straight (NPS)

Often referred to as NPSF, the NPS thread has the same fundamental characteristics as NPT except that it is a straight thread. NPSF stands for National Pipe Straight Fuel and is often used in female threads for fuel line connections or in the pneumatics industry it is often found in plastic body parts where a tapered thread could split the component body as the fitting is tightened.



British Standard Pipe Taper (BSPT)

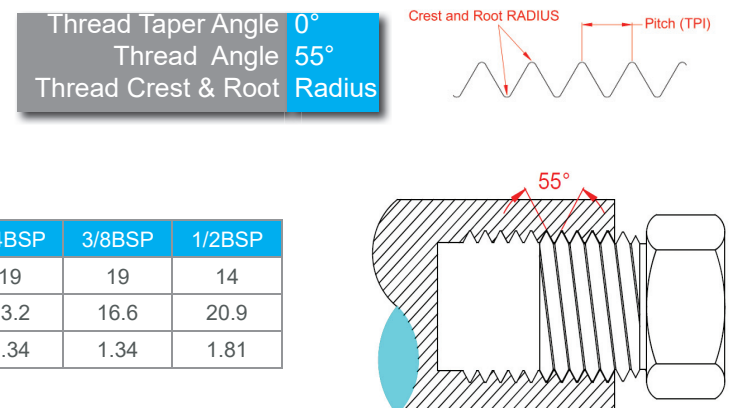
Sometimes referred to as an "R" thread, the BSP Thread (British Standard Pipe) is used throughout the world as a pipe thread except for the USA which uses NPT. BSPT is a tapered thread and is used in male threaded components to connect to female BSPT and also BSPP thread forms. Of course using a BSPT male to BSPT female is the preferred method which offers a full tapered seal, BSPT threads need a thread sealant to seal. However, Pneuforce BSPT male threads have a pre-applied thread sealant and do not require additional thread tape.



	1/8BSP	1/4BSP	3/8BSP	1/2BSP
TPI	28	19	19	14
Major Ø (mm)	9.7	13.2	16.6	20.9
Pitch (mm)	0.91	1.34	1.34	1.81

British Standard Pipe Parallel (BSPP)

Often referred to as a G thread, the BSPP thread form is by far the most popular female thread for pneumatic components throughout the world except for the USA where NPT is the standard. A parallel thread, the male fittings seal with an O ring ensuring a perfect seal each time and also in multiple connections such as a manifold, ensure common fitting height. A further advantage is that the male fitting can be used repeatedly without the need for reapplying thread sealant. Male G threads cannot be connected to female BSPT thread ports.



- Single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- Available from 5mm to 150mm diameter
- NBR, FDA Silicone and metal detectable materials



VFB	20	N
Series	Model	Diameter
	5	5
	8	8
	10-2	11
	15-2	16
	20	22
	30-2	34
	40	43
	50-2	53
	75	78
	110	115
	150	155

Cup Material	
N	Nitrile
S	Red Silicone
ST	White Translucent Silicone
SMI	Metal Impregnated Red Silicone
STMI	Metal Impregnated White Translucent Silicone

Part number example VFB30-2SMI
34mm diameter single bellows vacuum cup in red metal impregnated silicone



This cup series is available in metal detectable FDA compliant silicone.

For red colored metal detectable silicone use material code SMI.

For white translucent metal detectable silicone use material code STMI.



VFB5 SINGLE BELLOWS CUP



- 5mm Diameter (0.196") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant Red and White Silicone, non conductive silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Electronics parts pick and place
- Direct food contact pick and place

VFB**5****N**

Series

Model

Diameter

5

5

Cup Material

N

Nitrile NBR

S

Red Silicone

ST

White Translucent Silicone

SMI

Metal Impregnated Red Silicone

STMI

Metal Impregnated White Translucent Silicone

Cup Fittings

Use Fitting Type

A

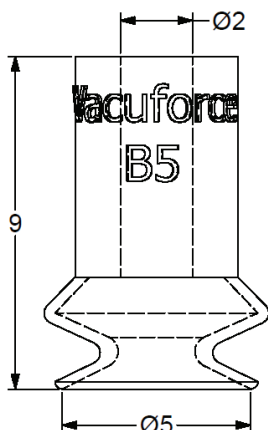


For cup material data please refer to vacuforce.com/materials

Part number example VFB5S

5mm diameter single bellows vacuum cup in red silicone

DIMENSIONS (mm)



Working Parameters

Compressed Height	7.5mm (bellow compresses by 1.5mm)
Sealing Radius min	1.5mm (or 3mm diameter object)

VFB8 SINGLE BELLOWS CUP



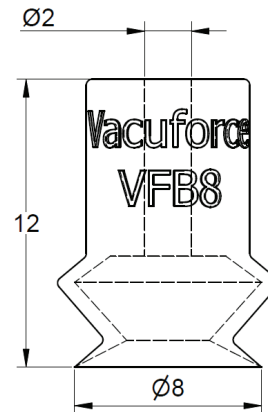
- 8mm Diameter (0.315") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant Red and White Silicone, non conductive silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Electronics parts pick and place
- Direct food contact pick and place

DIMENSIONS (mm)



Working Parameters

Compressed Height	8.5mm (bellows compresses by 3.5mm)
Sealing Radius min	1.9mm (or 3.8mm diameter object)

VFB

8

N

Series	Model	Diameter
	8	8

Cup Material

N	Nitrile NBR
S	Red Silicone
ST	White Translucent Silicone
SMI	Metal Impregnated Red Silicone
STMI	Metal Impregnated White Translucent Silicone

Cup Fittings

Use Fitting Type	A
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For cup material data please refer to vacuforce.com/materials

Part number example VFB8S

8mm diameter single bellows vacuum cup in red silicone

- 11mm Diameter (0.433") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant Red and White Silicone, non conductive silicone

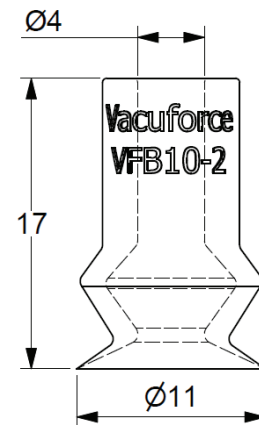


APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Electronics parts pick and place
- Direct food contact pick and place

Working Parameters	
Compressed Height	12.5mm (bellows compresses by 4.5mm)
Sealing Radius min	4mm (or 8mm diameter object)

DIMENSIONS (mm)



VFB		10-2		N	
Series		Model	Diameter	Cup Material	
		10-2	11	N	Nitrile NBR
				S	Red Silicone
				ST	White Translucent Silicone
				SMI	Metal Impregnated Red Silicone
				STMI	Metal Impregnated White Translucent Silicone

Cup Fittings	
Use Fitting Type	B



For cup material data please refer to vacuforce.com/materials

Part number example VFB10-2S

11mm diameter single bellows vacuum cup in red silicone

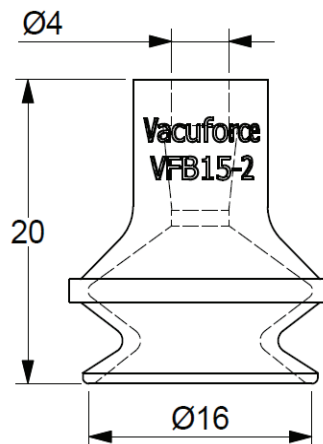
- 16mm Diameter (0.630") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant Red and White Silicone, non conductive silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Electronics parts pick and place
- Direct food contact pick and place

DIMENSIONS (mm)



Working Parameters

Compressed Height	13.5mm (bellows compresses by 6.5mm)
Sealing Radius min	5mm (or 10mm diameter object)

VFB

15-2

N

Series

Model

Diameter

15-2

16

Cup Material

N	Nitrile NBR
S	Red Silicone
ST	White Translucent Silicone
SMI	Metal Impregnated Red Silicone
STMI	Metal Impregnated White Translucent Silicone

Cup Fittings

Use Fitting Type	B
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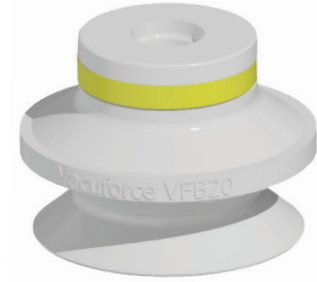


For cup material data please refer to vacuforce.com/materials

Part number example VFB15-2S

16mm diameter single bellows vacuum cup in red silicone

- 22mm Diameter (0.866") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant Red and White Silicone, non conductive silicone

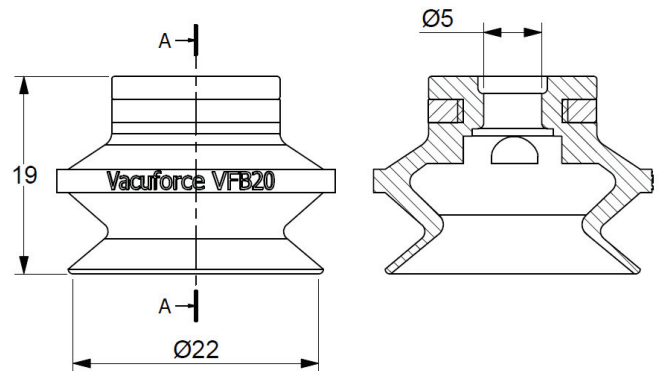


APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Electronics parts pick and place
- Direct food contact pick and place

Working Parameters	
Compressed Height	9mm (bellows compresses by 10mm)
Sealing Radius min	10mm (or 20mm diameter object)

DIMENSIONS (mm)



VFB

20

N

Series

Model

Diameter

20

22

Cup Material

N

Nitrile NBR

S

Red Silicone

ST

White Translucent Silicone

SMI

Metal Impregnated Red Silicone

STMI

Metal Impregnated White Translucent Silicone

Cup Fittings

Use Fitting Type

C

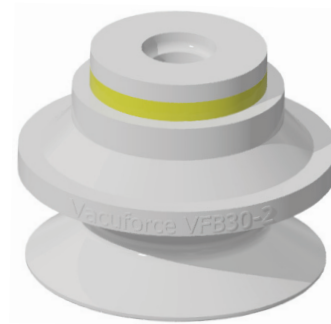


For cup material data please refer to vacuforce.com/materials

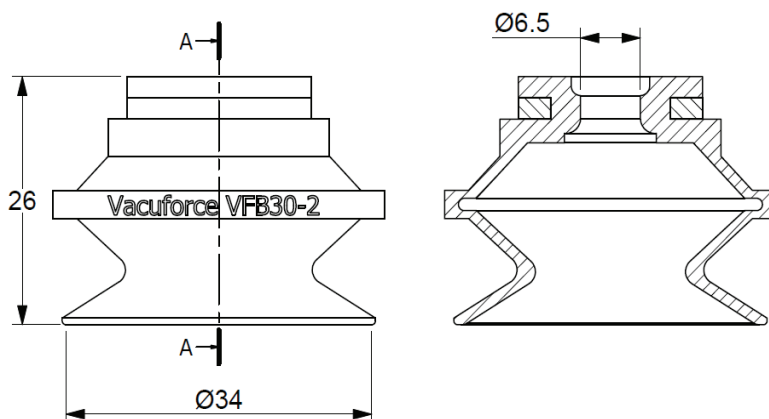
Part number example VFB20S

22mm diameter single bellows vacuum cup in red silicone

- 34mm Diameter (1.338") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant Red and White Silicone, non conductive silicone



DIMENSIONS (mm)



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Electronics parts pick and place
- Direct food contact pick and place

Working Parameters

Compressed Height	12mm (bellows compresses by 14mm)
Sealing Radius min	15mm (or 30mm diameter object)

VFB

30-2

N

Series	Model	Diameter
	30-2	34

Cup Material

N	Nitrile NBR
S	Red Silicone
ST	White Translucent Silicone
SMI	Metal Impregnated Red Silicone
STMI	Metal Impregnated White Translucent Silicone

Cup Fittings

Use Fitting Type	D
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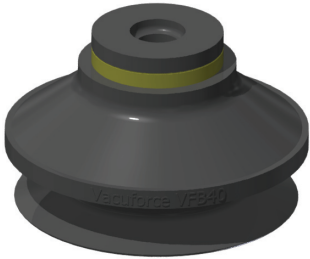


For cup material data please refer to vacuforce.com/materials

Part number example VFB30-2S

34mm diameter single bellows vacuum cup in red silicone

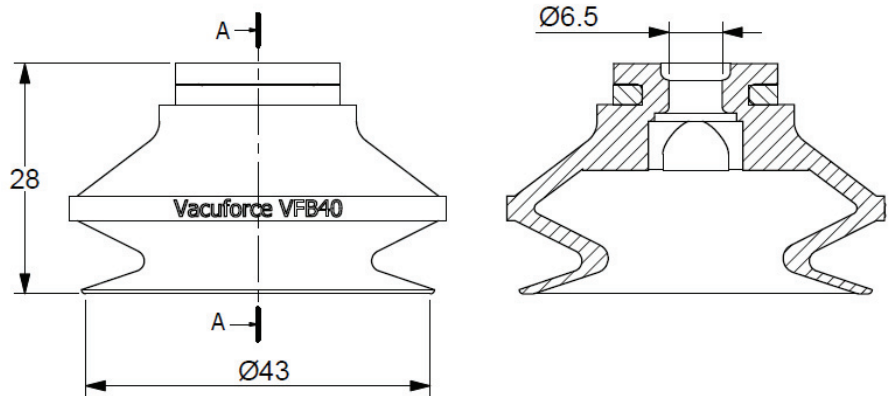
- 43mm Diameter (1.69") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant Red and White Silicone, non conductive silicone



DIMENSIONS (mm)

APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Electronics parts pick and place
- Direct food contact pick and place



Working Parameters

Compressed Height	15mm (bellows compresses by 13mm)
Sealing Radius min	20mm (or 40mm diameter object)

VFB

40

N

Series

Model

Diameter

40

43

Cup Material

N

Nitrile NBR

S

Red Silicone

ST

White Translucent Silicone

SMI

Metal Impregnated Red Silicone

STMI

Metal Impregnated White Translucent Silicone

Cup Fittings

Use Fitting Type

D



For cup material data please refer to vacuforce.com/materials

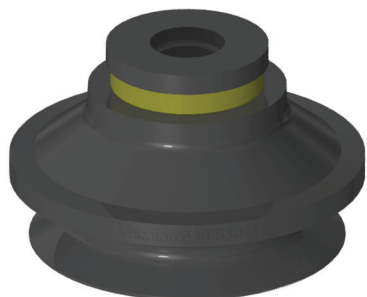
Part number example VFB40S

43mm diameter single bellows vacuum cup in red silicone

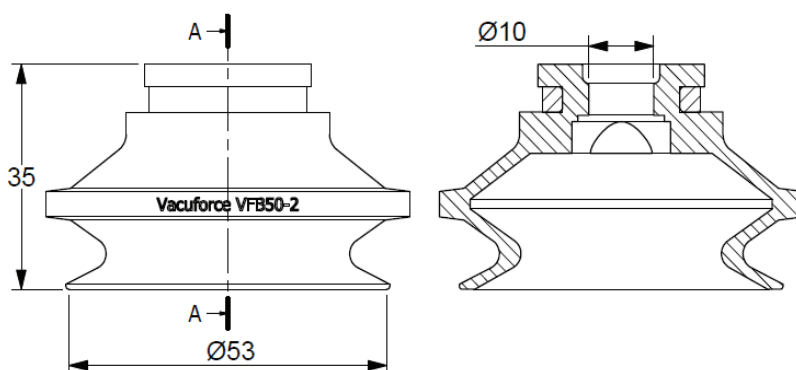
VFB50-2 SINGLE BELLOWS CUP



- 53mm Diameter (2.08") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant Red and White Silicone, non conductive silicone



DIMENSIONS (mm)



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Electronics parts pick and place
- Direct food contact pick and place

Working Parameters

Compressed Height	17mm (bellow compresses by 18mm)
Sealing Radius min	30mm (or 60mm diameter object)

VFB

50-2

N

Series	Model	Diameter
	50-2	53

Cup Material	
N	Nitrile NBR
S	Red Silicone
ST	White Translucent Silicone
SMI	Metal Impregnated Red Silicone
STMI	Metal Impregnated White Translucent Silicone

Cup Fittings

Use Fitting Type	E
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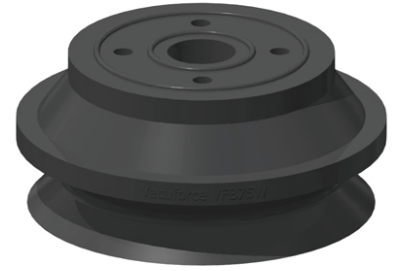


For cup material data please refer to vacuforce.com/materials

Part number example VFB50-2S

53mm diameter single bellows vacuum cup in red silicone

- 78mm Diameter (3.0") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant Red and White Silicone, non conductive silicone



VFB	75W	N
Series	Model	Diameter
	75W	78
		Cup Material
		N Nitrile NBR
		S Red Silicone



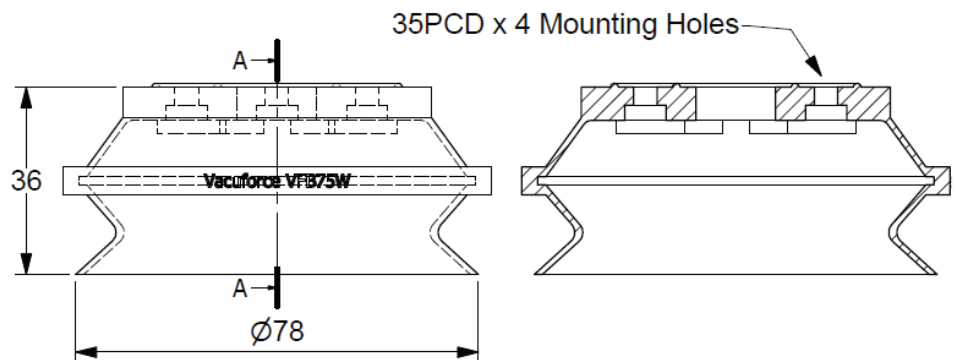
For cup material data please refer to vacuforce.com/materials

Part number example VFB75WS
78mm diameter single bellows vacuum cup in red silicone

DIMENSIONS (mm)

APPLICATIONS

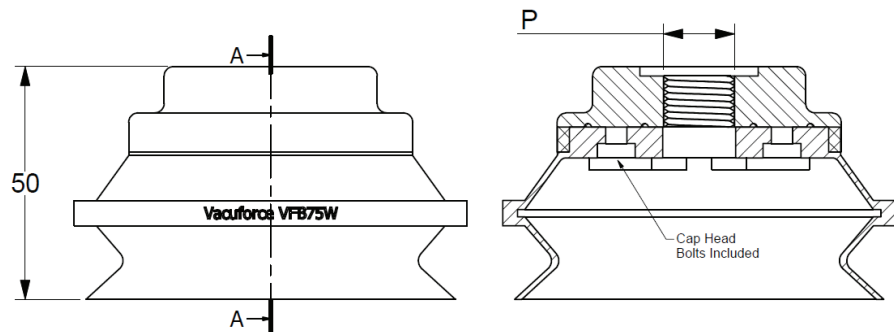
- Large part pick and place
- Injection molding
- Carton palletizing
- Box handling
- Large steel plates



Working Parameters

Compressed Height	16mm (bellows compresses by 20mm)
Sealing Radius min	40mm (or 80mm diameter object)

VFB75W Cup Fittings

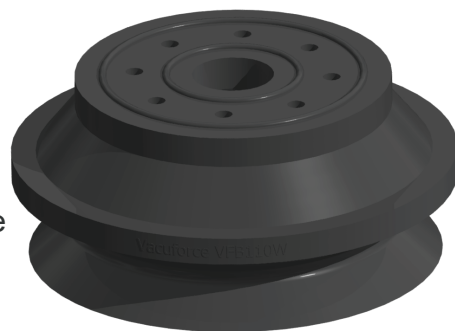


Fitting Model	P (Vacuum Port)
VFCF75-1/8	G1/8
VFCF75-1/4	G1/4
VFCF75-3/8	G3/8

VFB110W SINGLE BELLOWS CUP



- 115mm Diameter (4.53") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant Red and White Silicone, non conductive silicone



VFB	110W	N
Series	Model	Diameter
	110W	115
		Cup Material
		N Nitrile NBR
		S Red Silicone

For cup material data please refer to vacuforce.com/materials

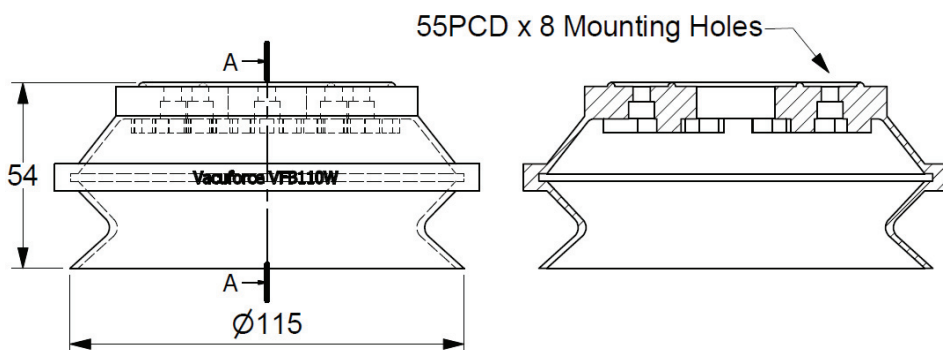
Part number example VFB110WS

115mm diameter single bellows vacuum cup in red silicone

DIMENSIONS (mm)

APPLICATIONS

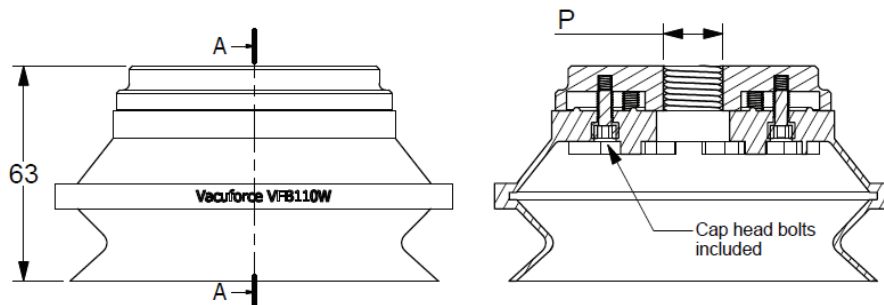
- Large part pick and place
- Injection molding
- Carton palletizing
- Box handling
- Large steel plates



Working Parameters

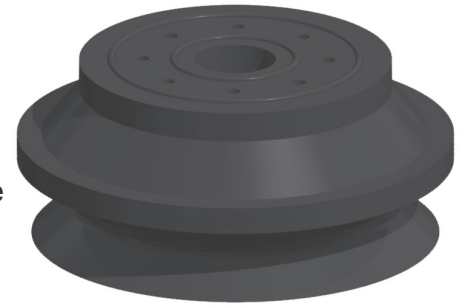
Compressed Height	24mm (bellow compresses by 30mm)
Sealing Radius min	60mm (or 120mm diameter object)

VFB110W Cup Fittings



Fitting Model	P (Vacuum Port)
VFCF110-3/8	G3/8
VFCF110-1/2	G1/2

- 155mm Diameter (6") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant Red and White Silicone, non conductive silicone



VFB	150W	N
Series	Model	Diameter
	150W	155
		Cup Material
		N Nitrile NBR
		S Red Silicone



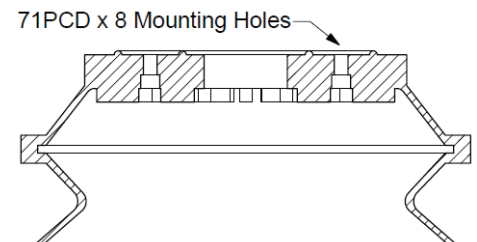
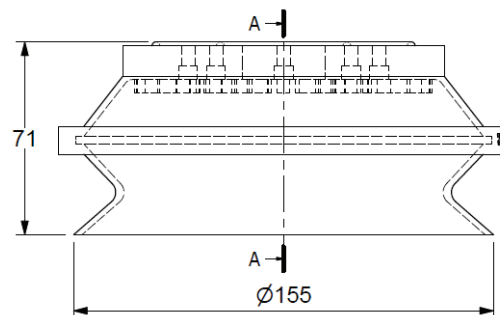
For cup material data please refer to vacuforce.com/materials

Part number example VFB150WS
155mm diameter single bellows vacuum cup in red silicone

DIMENSIONS (mm)

APPLICATIONS

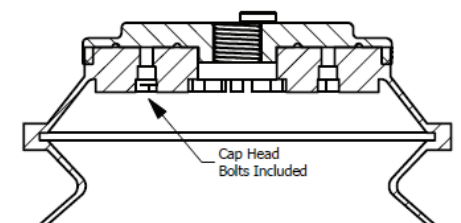
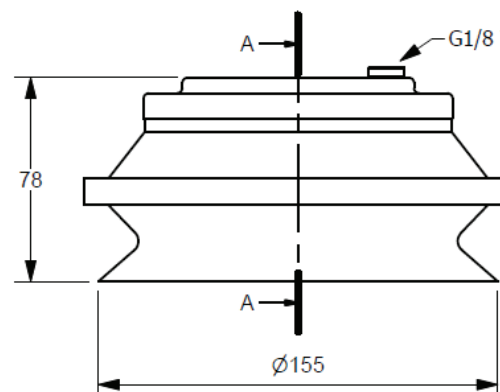
- Large part pick and place
- Injection molding
- Carton palletizing
- Box handling
- Large steel plates



Working Parameters

Compressed Height	26mm (bellow compresses by 45mm)
Sealing Radius min	75mm (or 150mm diameter object)

VFB150W Cup Fittings



Fitting Model

VFCF150-1/2

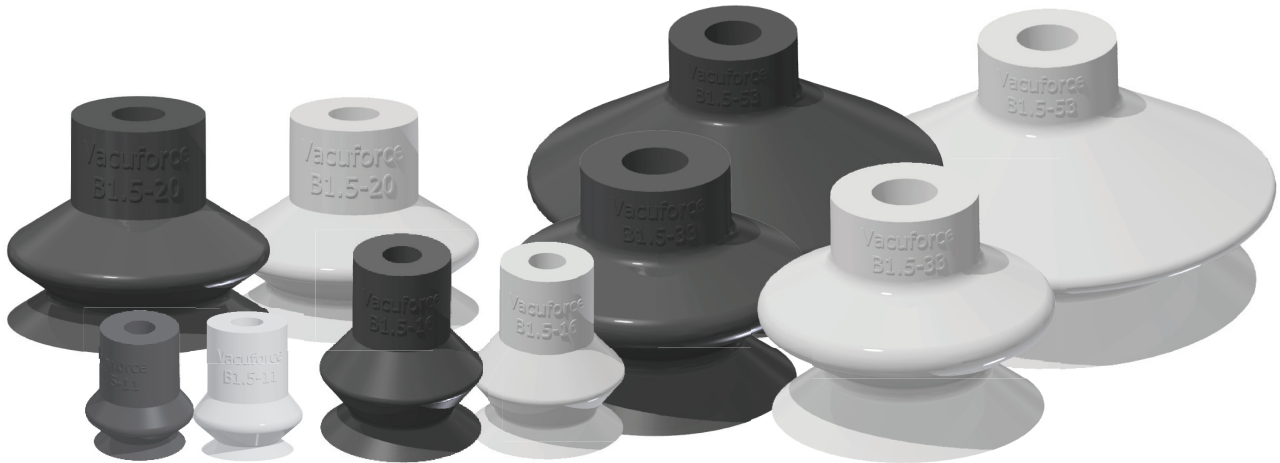
P (Vacuum Port)

G1/2

B1.5 SINGLE BELLOWS CUP



- Single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- Available from 11mm to 53mm diameter
- NBR, FDA Silicone materials



B1.5		11	N	
Series	Model	Diameter	Cup Material	
	11	11	N	Nitrile
	13	13	ST	White Translucent Silicone
	16	16		
	20	20		
	22	22		
	25	25		
	33	33		
	43	43		
	53	53		

Part number example B1.5-43ST

43mm diameter single bellows vacuum cup in white silicone



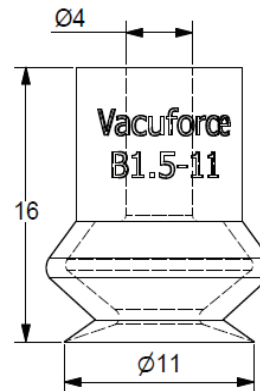
- 11mm Diameter (0.433") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B1.5 11 N			Cup Material	
Series	Model	Diameter	N	Nitrile NBR
	11	11	ST	White Translucent Silicone

Cup Fittings	
Use Fitting Type	B



For cup material data please refer to vacuforce.com/materials

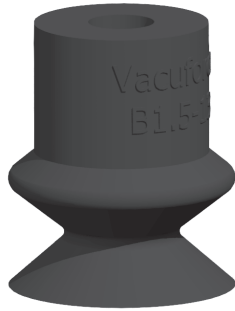
Part number example B1.5-11ST

11mm diameter single bellows vacuum cup in white silicone

B1.5-13 SINGLE BELLOWS CUP



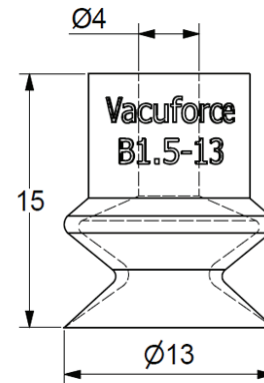
- 13mm Diameter (0.512") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)

**B1.5****13****N**

Series	Model	Diameter
	13	13

Cup Material	
N	Nitrile NBR
ST	White Translucent Silicone

Cup Fittings

Use Fitting Type	B
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For cup material data please refer to vacuforce.com/materials

Part number example B1.5-13ST

13mm diameter single bellows vacuum cup in white silicone

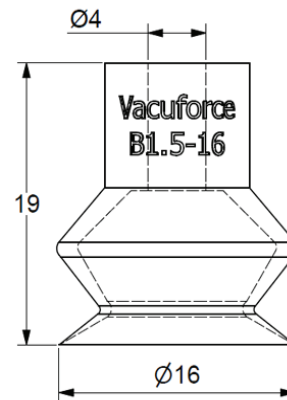
- 16mm Diameter (0.630") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B1.5 16			N	
Series	Model	Diameter	Cup Material	
	16	16	N	Nitrile NBR
			ST	White Translucent Silicone

Cup Fittings	
Use Fitting Type	B

For cup material data please refer to vacuforce.com/materials

Part number example B1.5-16ST

16mm diameter single bellows vacuum cup in white silicone



B1.5-20 SINGLE BELLOWS CUP



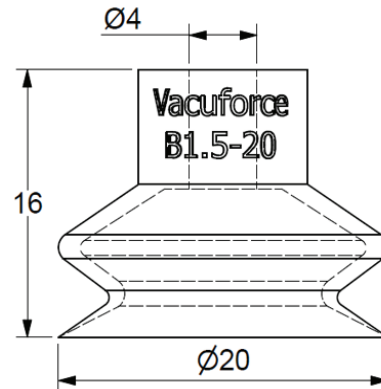
- 20mm Diameter (0.787") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)

**B1.5****20****N**

Series	Model	Diameter
	20	20

Cup Material	
N	Nitrile NBR
ST	White Translucent Silicone

Cup Fittings

Use Fitting Type	B
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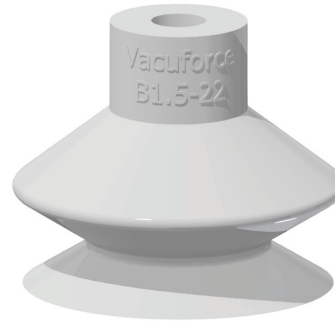


For cup material data please refer to vacuforce.com/materials

Part number example B1.5-20ST

20mm diameter single bellows vacuum cup in white silicone

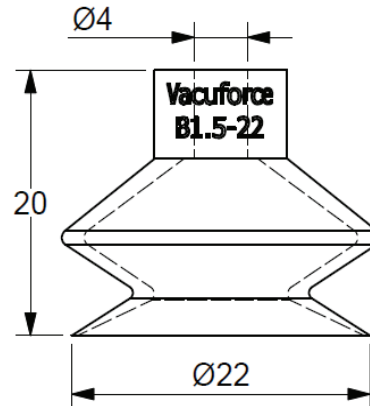
- 22mm Diameter (0.866") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B1.5		22		N	
Series	Model	Diameter	Cup Material		
	22	22	N	Nitrile NBR	
			ST	White Translucent Silicone	

Cup Fittings	
Use Fitting Type	B



For cup material data please refer to vacuforce.com/materials

Part number example B1.5-22ST

22mm diameter single bellows vacuum cup in white silicone

B1.5-25 SINGLE BELLOWS CUP



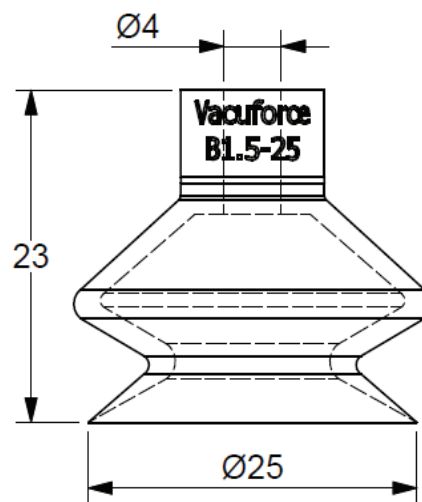
- 25mm Diameter (0.984") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B1.5

25

N

Series	Model	Diameter
	25	25

Cup Material	
N	Nitrile NBR
ST	White Translucent Silicone

Cup Fittings

Use Fitting Type	B
------------------	---

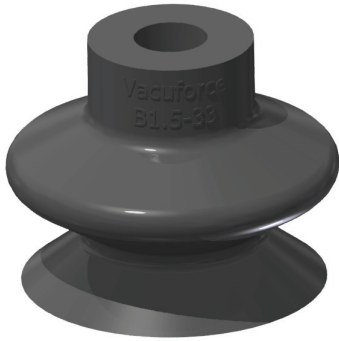


For cup material data please refer to vacuforce.com/materials

Part number example B1.5-25ST

25mm diameter single bellows vacuum cup in white silicone

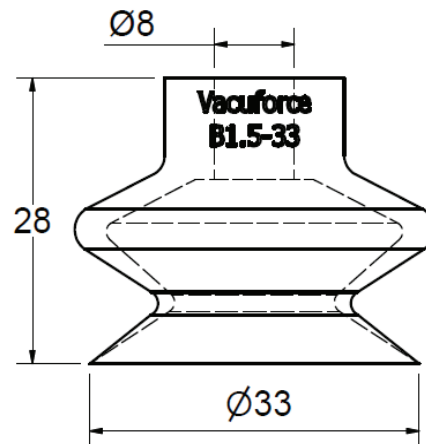
- 33mm Diameter (1.3") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B1.5 33			N	
Series	Model	Diameter	Cup Material	
	33	33	N	Nitrile NBR
			ST	White Translucent Silicone

Cup Fittings	
Use Fitting Type	F



For cup material data please refer to vacuforce.com/materials

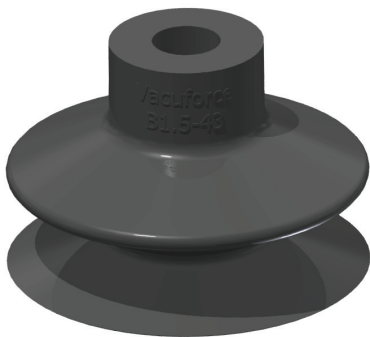
Part number example B1.5-33ST

33mm diameter single bellows vacuum cup in white silicone

B1.5-43 SINGLE BELLOWS CUP



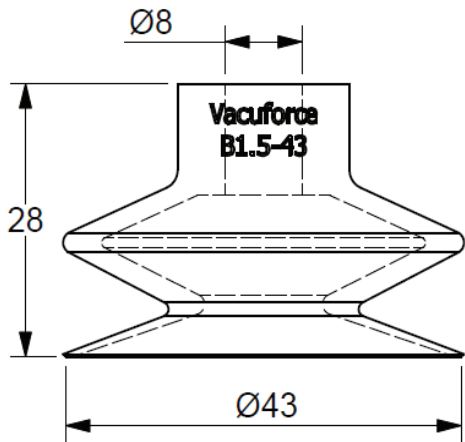
- 43mm Diameter (1.69") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B1.5		43	N	
Series	Model	Diameter	Cup Material	
	43	43	N	Nitrile NBR
			ST	White Translucent Silicone

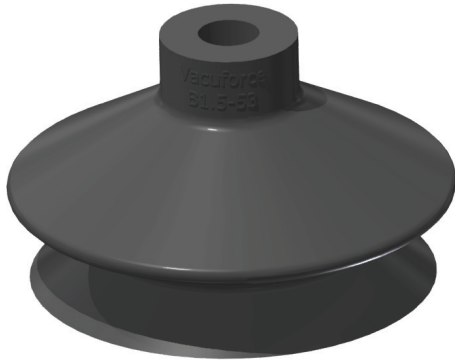
Cup Fittings	
Use Fitting Type	F



For cup material data please refer to vacuforce.com/materials

Part number example B1.5-43ST
43mm diameter single bellows vacuum cup in white silicone

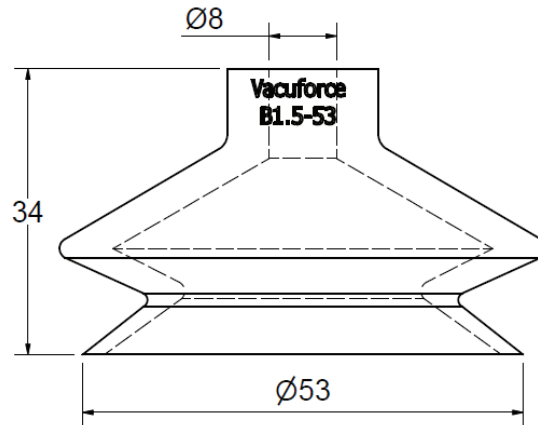
- 53mm Diameter (2.08") single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B1.5			33		N	
Series	Model	Diameter	Cup Material			
	53	53	N	Nitrile NBR		
			ST	White Translucent Silicone		

Cup Fittings	
Use Fitting Type	F

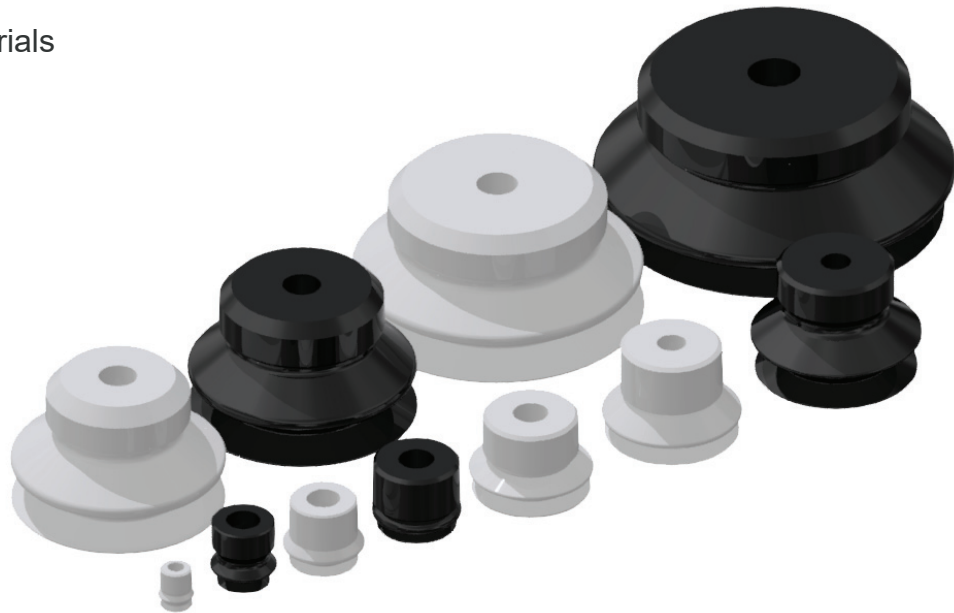


For cup material data please refer to vacuforce.com/materials

Part number example B1.5-53ST

53mm diameter single bellows vacuum cup in white silicone

- Single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- Available from 4mm to 50mm diameter
- NBR, FDA Silicone materials



PJG	40	SI
Series		Cup Material
	Model	Diameter
	6	6
	10	10
	15	15
	20	20
	25	25
	30	30
	35	35
	40	40
	50	50

NBR	Nitrile
SI	White Translucent Silicone

Part number example PGJ-40-NBR
40mm diameter single bellows vacuum cup in white silicone

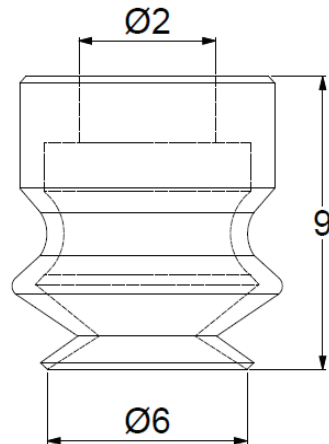
- 6mm Diameter single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



PJG		6		NBR	
Series		Model	Diameter	Cup Material	
		6	6	N	Nitrile NBR
				SI	White Translucent Silicone

For cup material data please refer to vacuforce.com/materials

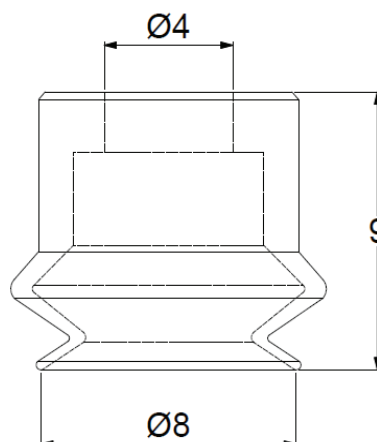
- 8mm Diameter single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

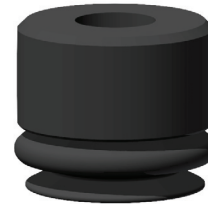
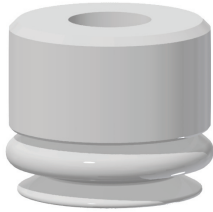
DIMENSIONS (mm)



PJG		8		NBR	
Series		Model	Diameter	Cup Material	
		8	8	N	Nitrile NBR
				SI	White Translucent Silicone

For cup material data please refer to vacuforce.com/materials

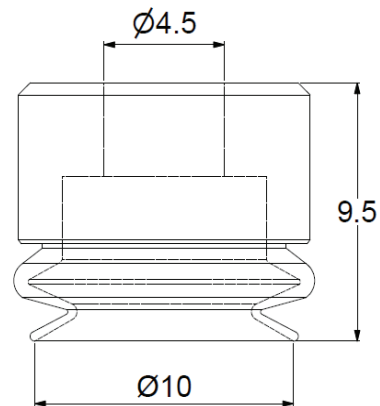
- 10mm Diameter single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

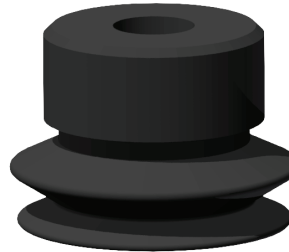
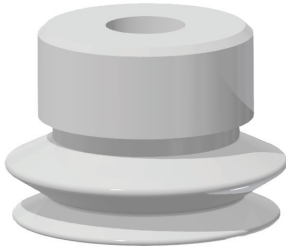
DIMENSIONS (mm)



PJG		10		NBR	
Series		Model	Diameter	Cup Material	
		10	10	N	Nitrile NBR
				SI	White Translucent Silicone

For cup material data please refer to vacuforce.com/materials

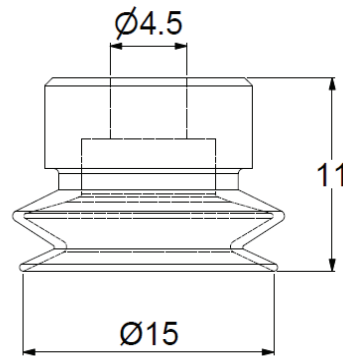
- 15mm Diameter single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

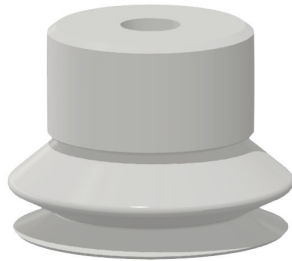
DIMENSIONS (mm)



PJG		15		NBR	
Series		Model	Diameter	Cup Material	
		15	15	N	Nitrile NBR
				SI	White Translucent Silicone

For cup material data please refer to vacuforce.com/materials

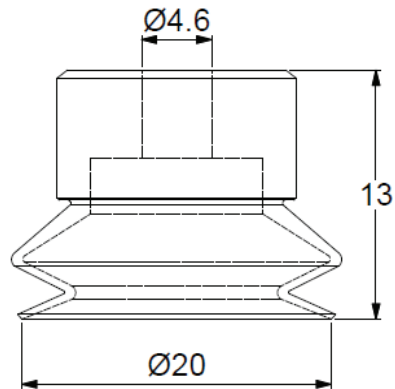
- 20mm Diameter single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



PJG		20		NBR	
Series		Model	Diameter	Cup Material	
		20	20	N	Nitrile NBR
				SI	White Translucent Silicone

For cup material data please refer to vacuforce.com/materials

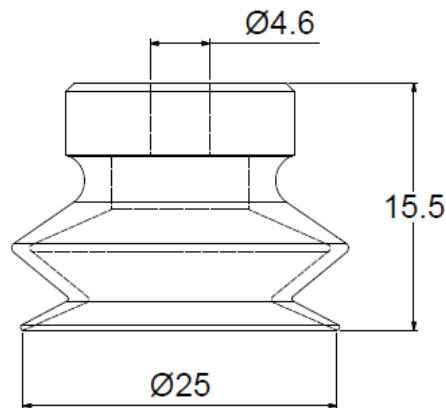
- 25mm Diameter single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



PJG		25		NBR	
Series		Model	Diameter	Cup Material	
		25	25	N	Nitrile NBR
				SI	White Translucent Silicone

For cup material data please refer to vacuforce.com/materials

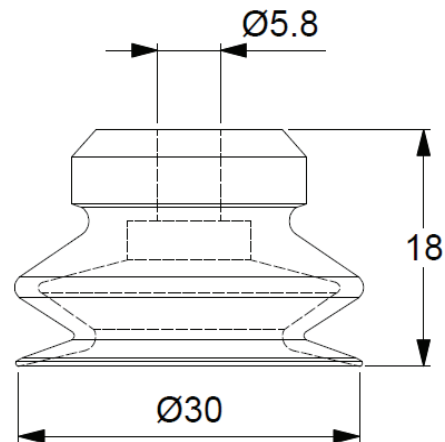
- 30mm Diameter single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



PJG		30		NBR	
Series		Model	Diameter	Cup Material	
		30	30	N	Nitrile NBR
				SI	White Translucent Silicone

For cup material data please refer to vacuforce.com/materials

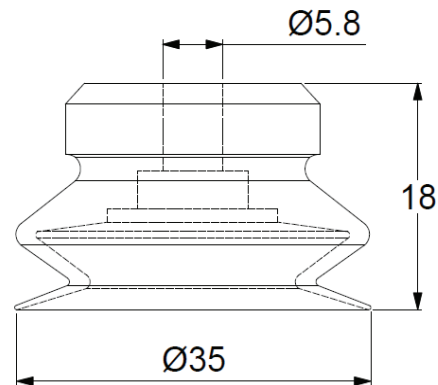
- 35mm Diameter single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

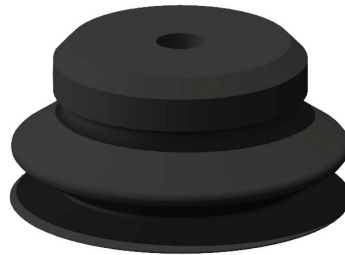
DIMENSIONS (mm)



PJG		35		NBR	
Series		Model	Diameter	Cup Material	
		35	35	N	Nitrile NBR
				SI	White Translucent Silicone

For cup material data please refer to vacuforce.com/materials

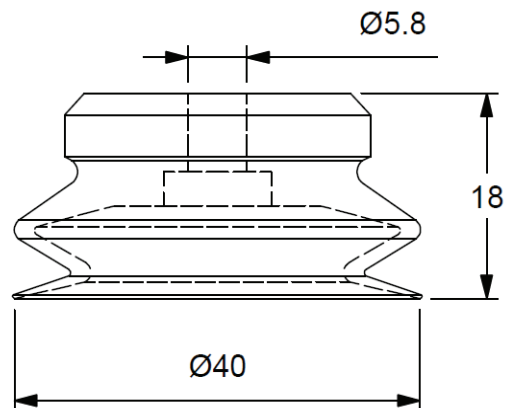
- 40mm Diameter single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

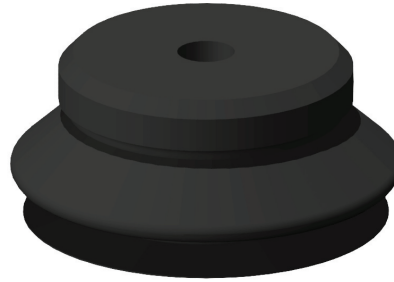
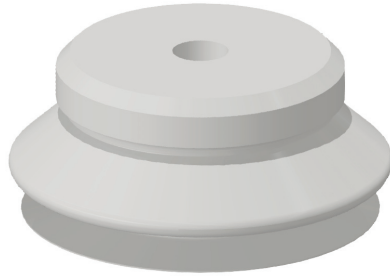
DIMENSIONS (mm)



PJG		40		NBR	
Series		Model	Diameter	Cup Material	
		40	40	N	Nitrile NBR
				SI	White Translucent Silicone

For cup material data please refer to vacuforce.com/materials

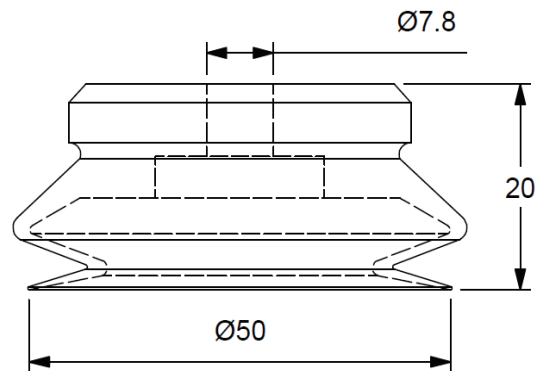
- 50mm Diameter single bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



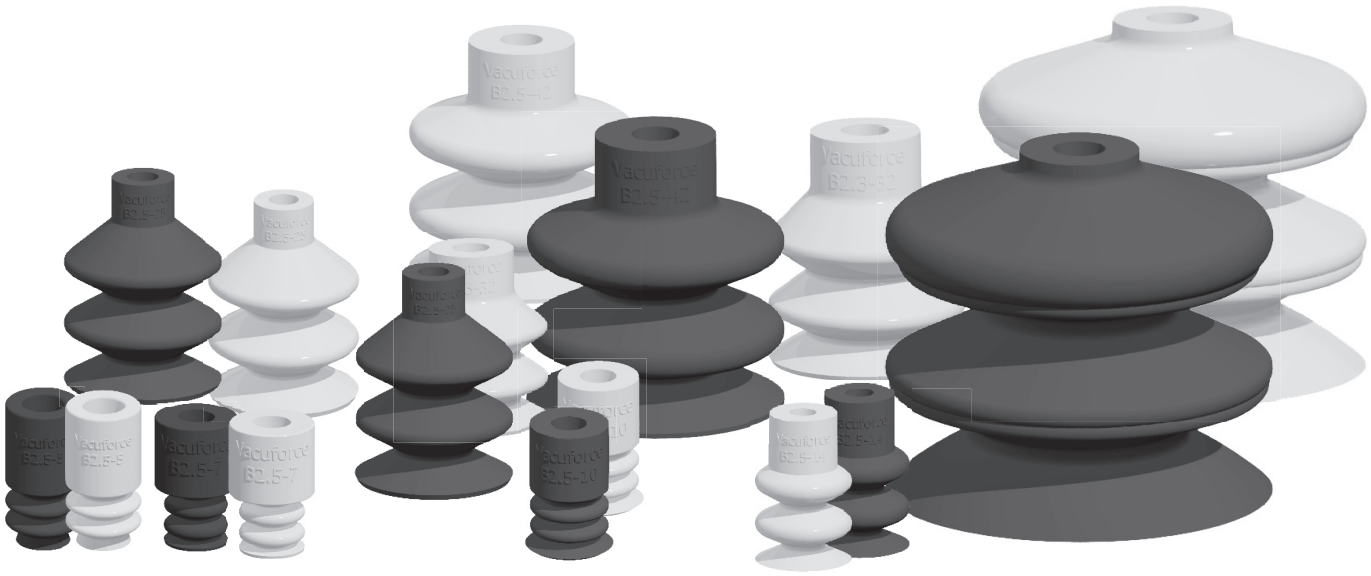
PJG		50		NBR	
Series		Model	Diameter	Cup Material	
		50	50	N	Nitrile NBR
				SI	White Translucent Silicone

For cup material data please refer to vacuforce.com/materials

B2.5 DOUBLE BELLOWS CUP



- Double bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- Available from 5mm to 60mm diameter
- NBR, FDA Silicone materials



B2.5		42	N	
Series	Model	Diameter	Cup Material	
	5	5	N	Nitrile
	7	7	ST	White Translucent Silicone
	10	10	Part number example B2.5-42ST 42mm diameter double bellows vacuum cup in white silicone	
	14	14		
	18	18		
	20	20		
	25	25		
	32	32		
	42	42		
	60	60		



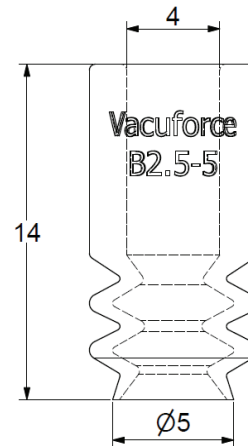
- 5mm Diameter (0.196") double bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B2.5		5		N	
Series		Model	Diameter	Cup Material	
		5	5	N	Nitrile NBR
				ST	White Translucent Silicone

Cup Fittings	
Use Fitting Type	B

For cup material data please refer to vacuforce.com/materials

Part number example B2.5-5ST

5mm diameter double bellows vacuum cup in white silicone



B2.5-7 DOUBLE BELLOWS CUP



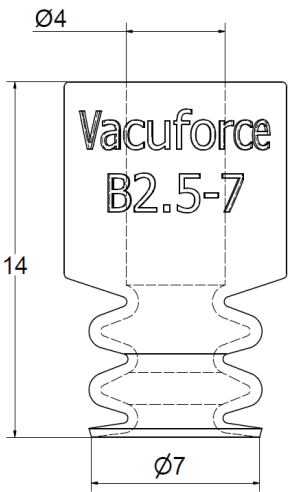
- 7mm Diameter (0.276”) double bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B2.5		7		N	
Series		Model	Diameter	Cup Material	
		7	7	N	Nitrile NBR
				ST	White Translucent Silicone

Cup Fittings	
Use Fitting Type	B

For cup material data please refer to vacuforce.com/materials
Part number example B2.5-7ST
7mm diameter double bellows vacuum cup in white silicone



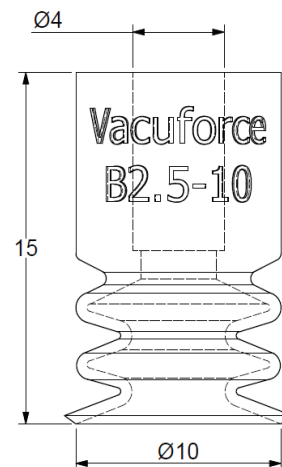
- 10mm Diameter (0.390") double bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B2.5		10		N	
Series		Model	Diameter	Cup Material	
		10	10	N	Nitrile NBR
				ST	White Translucent Silicone

Cup Fittings	
Use Fitting Type	B

For cup material data please refer to vacuforce.com/materials

Part number example B2.5-10ST

10mm diameter double bellows vacuum cup in white silicone



B2.5-14 DOUBLE BELLOWS CUP



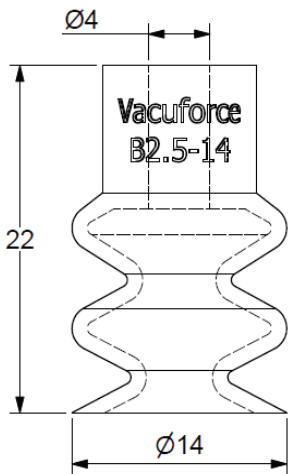
- 14mm Diameter (0.550”) double bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B2.5		14		N	
Series		Model	Diameter	Cup Material	
		14	14	N	Nitrile NBR
				ST	White Translucent Silicone

Cup Fittings	
Use Fitting Type	B

For cup material data please refer to vacuforce.com/materials
Part number example B2.5-14ST
14mm diameter double bellows vacuum cup in white silicone



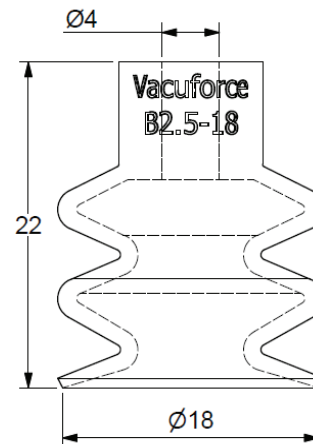
- 18mm Diameter (0.709") double bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B2.5		18		N	
Series		Model	Diameter	Cup Material	
		18	18	N	Nitrile NBR
				ST	White Translucent Silicone

Cup Fittings	
Use Fitting Type	B

For cup material data please refer to vacuforce.com/materials

Part number example B2.5-18ST

18mm diameter double bellows vacuum cup in white silicone



B2.5-20 DOUBLE BELLOWS CUP



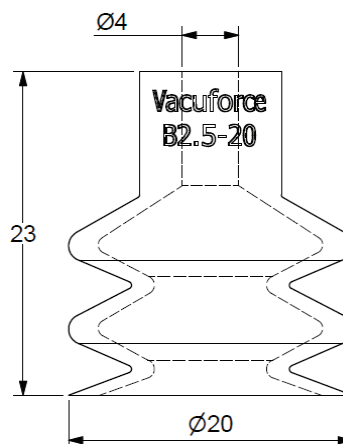
- 20mm Diameter (0.787") double bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B2.5		20		N	
Series		Model	Diameter	Cup Material	
		20	20	N	Nitrile NBR
				ST	White Translucent Silicone

Cup Fittings	
Use Fitting Type	B

For cup material data please refer to vacuforce.com/materials

Part number example B2.5-20ST

20mm diameter double bellows vacuum cup in white silicone



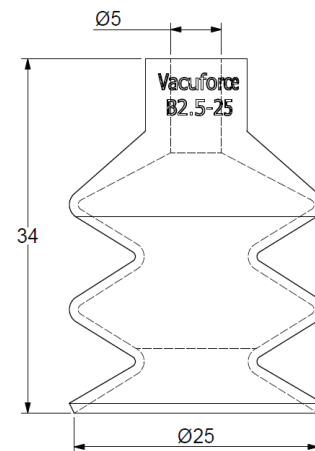
- 25mm Diameter (0.984") double bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B2.5		25		N	
Series		Model	Diameter	Cup Material	
		25	25	N	Nitrile NBR
				ST	White Translucent Silicone

Cup Fittings	
Use Fitting Type	B

For cup material data please refer to vacuforce.com/materials

Part number example B2.5-25ST

25mm diameter double bellows vacuum cup in white silicone



B2.5-32 DOUBLE BELLOWS CUP



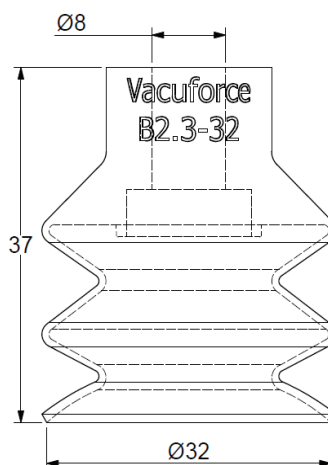
- 32mm Diameter (1.26") double bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B2.5		32		N	
Series		Model	Diameter	Cup Material	
		32	32	N	Nitrile NBR
				ST	White Translucent Silicone

Cup Fittings	
Use Fitting Type	F

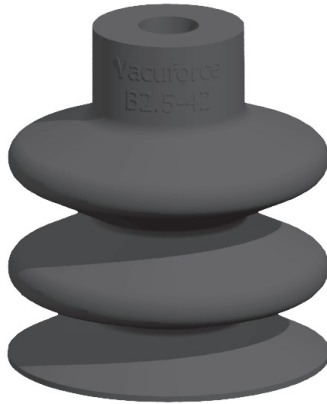
For cup material data please refer to vacuforce.com/materials

Part number example B2.5-32ST

32mm diameter double bellows vacuum cup in white silicone



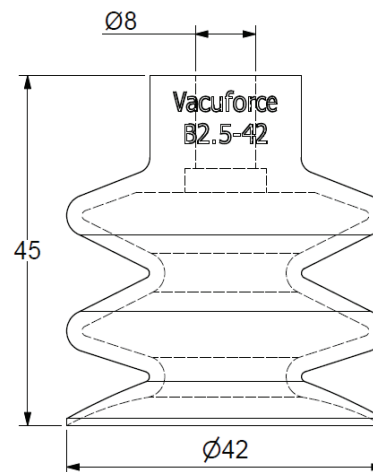
- 42mm Diameter (1.64") double bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B2.5		42		N	
Series	Model	Diameter	Cup Material		
	42	42	N	Nitrile NBR	
			ST	White Translucent Silicone	

Cup Fittings	
Use Fitting Type	F

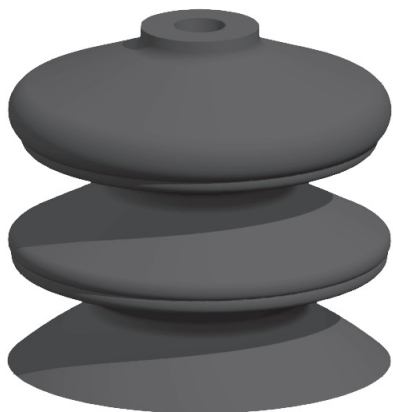
For cup material data please refer to vacuforce.com/materials

Part number example B2.5-42ST

42mm diameter double bellows vacuum cup in white silicone



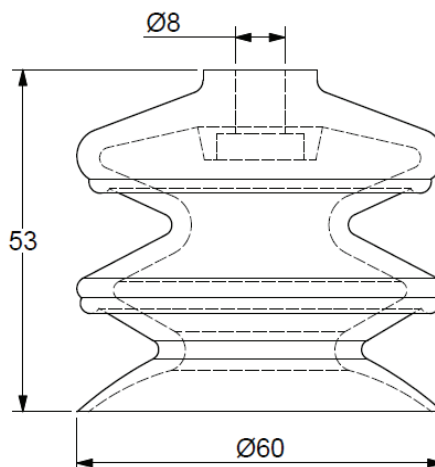
- 60mm Diameter (2.36") double bellows design
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- NBR, FDA compliant white Silicone



APPLICATIONS

- Small part pick and place
- Injection molding
- Labeling machinery
- Direct food contact pick and place

DIMENSIONS (mm)



B2.5		60		N	
Series	Model	Diameter	Cup Material		
	60	60	N	Nitrile NBR	
			ST	White Translucent Silicone	

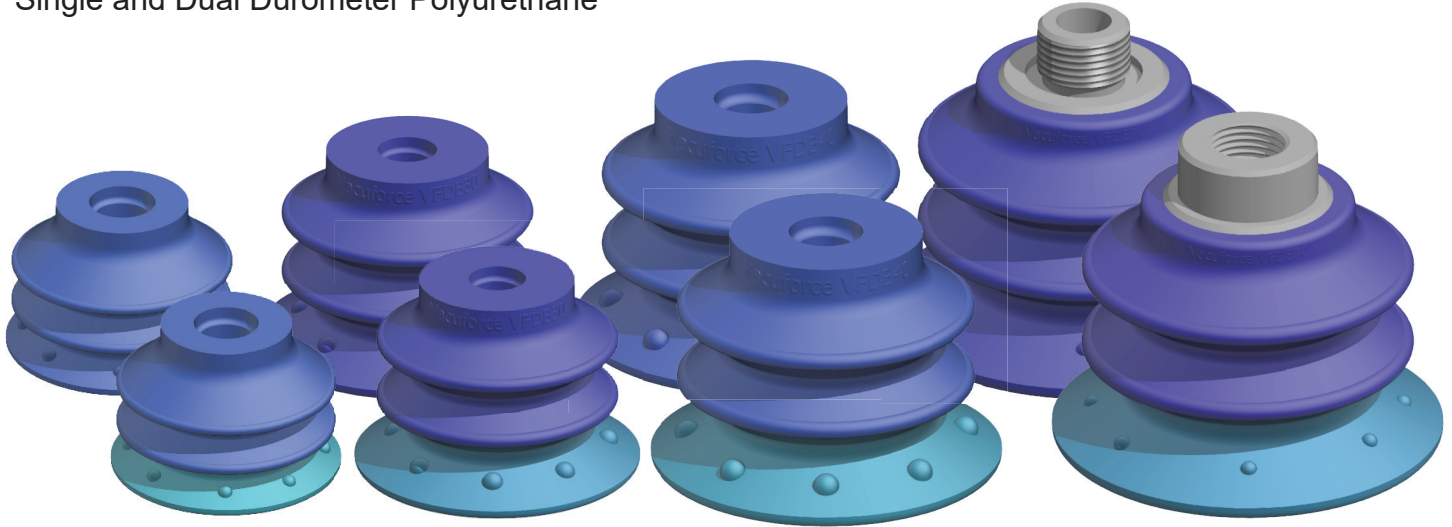
For cup material data please refer to vacuforce.com/materials

Part number example B2.5-60ST

60mm diameter double bellows vacuum cup in white silicone



- Double Bellows Design
- Compensates for Height Variances in Part Picking
- Can seal on Convex and Concave Surfaces
- Available from 20mm to 70mm Diameter
- Single and Dual Durometer Polyurethane



VFDB

40

DPU

Series	Model	Diameter (mm)	Cup Material	
	20	20	PU	PU 60 Durometer
	30	30	DPU	Dual PU 30/60 Durometer
	40	40		
	50	50		
	70	70		

For cup material data please refer to vacuforce.com/materials

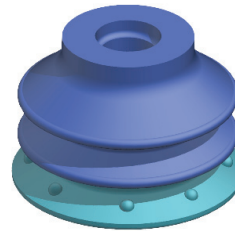
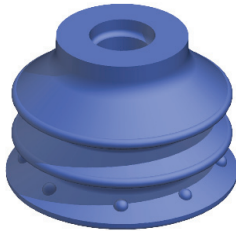
Part number example VFDP40DPU

40mm Diameter double bellows vacuum cup in dual durometer polyurethane compound (30/60 = lip/body)

Dual Durometer Vacuum Cups (DPU)

The DPU compound variant of these vacuum cups offer a dual Durometer polyurethane construction. The body of the vacuum cup is a 60 Durometer polyurethane offering rigidity and strength, whereas the lip of the vacuum cup is a 30 Durometer polyurethane offering superior sealing capabilities particularly on rough or curved surfaces.

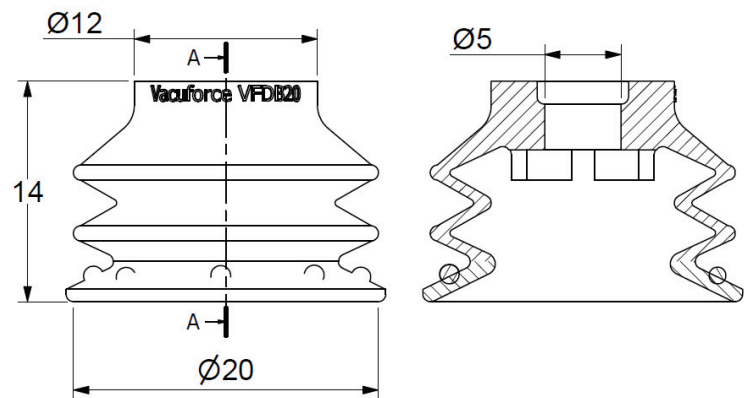
- 20mm Diameter (0.787") double bellows design
- Dual durometer option - rigid 60 durometer body with soft 30 duro lip
- Non marking materials
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- Single and dual durometer polyurethane



APPLICATIONS

- Small part pick and place
- Plastic and steel handling
- Glass and decorative stone handling
- Cardboard box handling

DIMENSIONS (mm)



VFDB

20

PU

Series	Model	Diameter
	20	20

Cup Material	
PU	60 Durometer Polyurethane
DPU	30/60 Dual Durometer Polyurethane

Cup Fittings

Use Fitting Type	C
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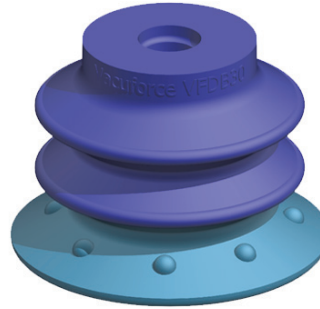
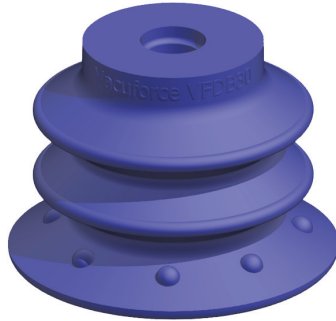
For cup fittings
refer to page 1.86

For cup material data please refer to vacuforce.com/materials

Part number example VFDB20DPU

20mm diameter dual durometer polyurethane diameter double bellows vacuum cup

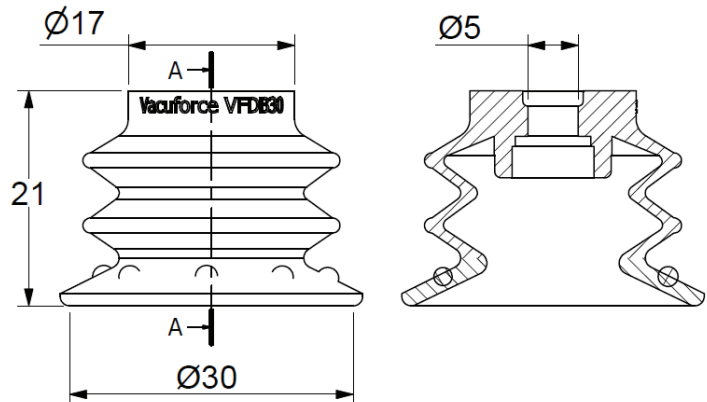
- 30mm Diameter (1.18") double bellows design
- Dual durometer option - rigid 60 durometer body with soft 30 duro lip
- Non marking materials
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- Single and dual durometer polyurethane



APPLICATIONS

- Small part pick and place
- Plastic and steel handling
- Glass and decorative stone handling
- Cardboard box handling

DIMENSIONS (mm)



VFDB

30

PU

Series	Model	Diameter
	30	30

Cup Material	
PU	60 Durometer Polyurethane
DPU	30/60 Dual Durometer Polyurethane

Cup Fittings	
Use Fitting Type	C

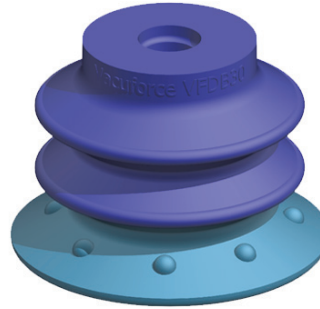
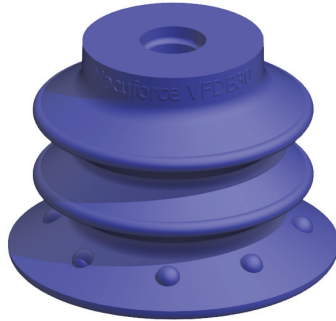


For cup material data please refer to vacuforce.com/materials

Part number example VFDB30DPU

30mm diameter dual durometer polyurethane diameter double bellows vacuum cup

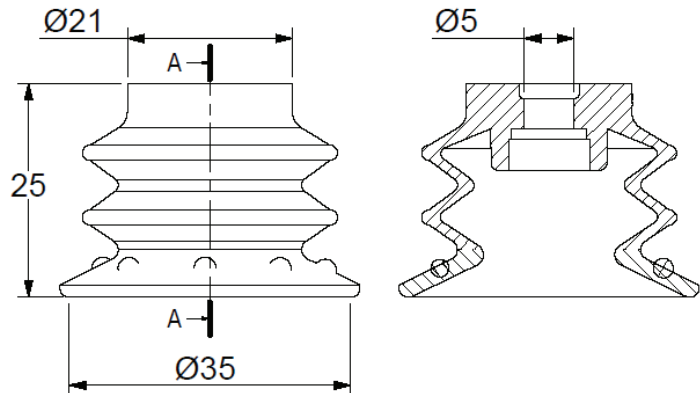
- 35mm Diameter (1.37") double bellows design
- Dual durometer option - rigid 60 durometer body with soft 30 duro lip
- Non marking materials
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- Single and dual durometer polyurethane



APPLICATIONS

- Small part pick and place
- Plastic and steel handling
- Glass and decorative stone handling
- Cardboard box handling

DIMENSIONS (mm)



VFDB		35		PU	
Series		Model	Diameter	Cup Material	
		35	35	DPU	30/60 Dual Durometer Polyurethane

Cup Fittings	
Use Fitting Type	C

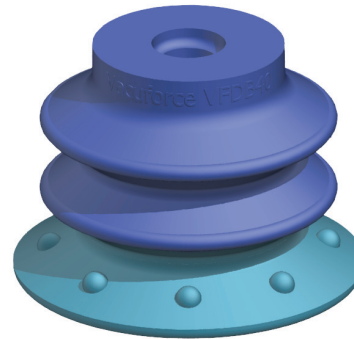
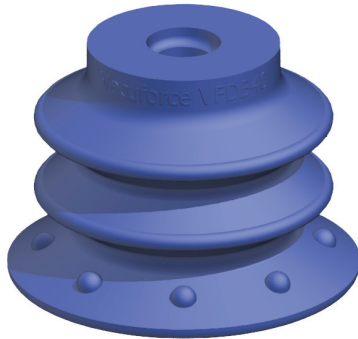


For cup material data please refer to vacuforce.com/materials

Part number example VFDB30DPU

35mm diameter dual durometer polyurethane diameter double bellows vacuum cup

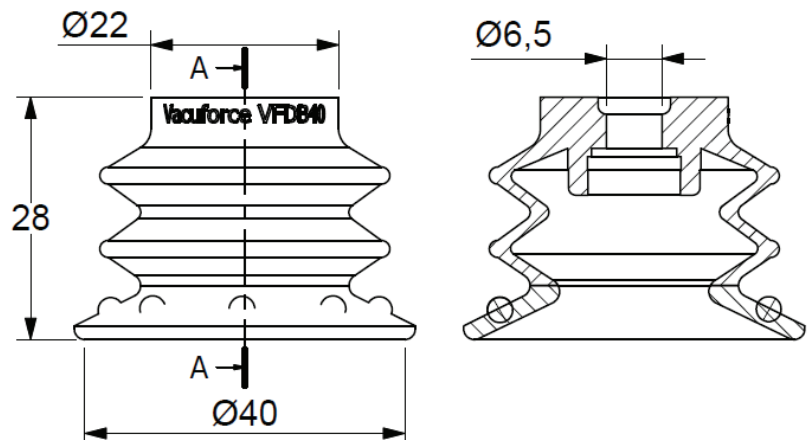
- 40mm Diameter (0.787") double bellows design
- Dual durometer option - rigid 60 durometer body with soft 30 duro lip
- Non marking materials
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- Single and dual durometer polyurethane



APPLICATIONS

- Small part pick and place
- Plastic and steel handling
- Glass and decorative stone handling
- Cardboard box handling

DIMENSIONS (mm)



VFDB

40

PU

Series	Model	Diameter
	40	40

Cup Material	
PU	60 Durometer Polyurethane
DPU	30/60 Dual Durometer Polyurethane

Cup Fittings

Use Fitting Type	D
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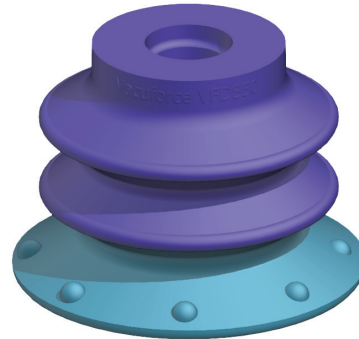
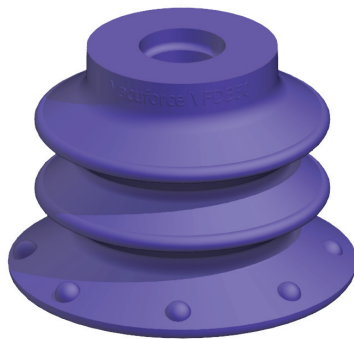


For cup material data please refer to vacuforce.com/materials

Part number example VFDB40DPU

40mm diameter dual durometer polyurethane diameter double bellows vacuum cup

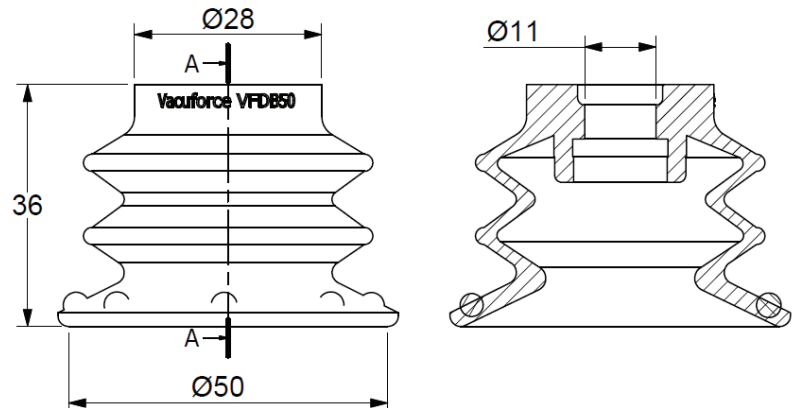
- 50mm Diameter (1.97") double bellows design
- Dual durometer option - rigid 60 durometer body with soft 30 duro lip
- Non marking materials
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- Single and dual durometer polyurethane



APPLICATIONS

- Small part pick and place
- Plastic and steel handling
- Glass and decorative stone handling
- Cardboard box handling

DIMENSIONS (mm)



VFDB

50

PU

Series	Model	Diameter
	50	50

Cup Material	
PU	60 Durometer Polyurethane
DPU	30/60 Dual Durometer Polyurethane

Cup Fittings	
Use Fitting Type	E

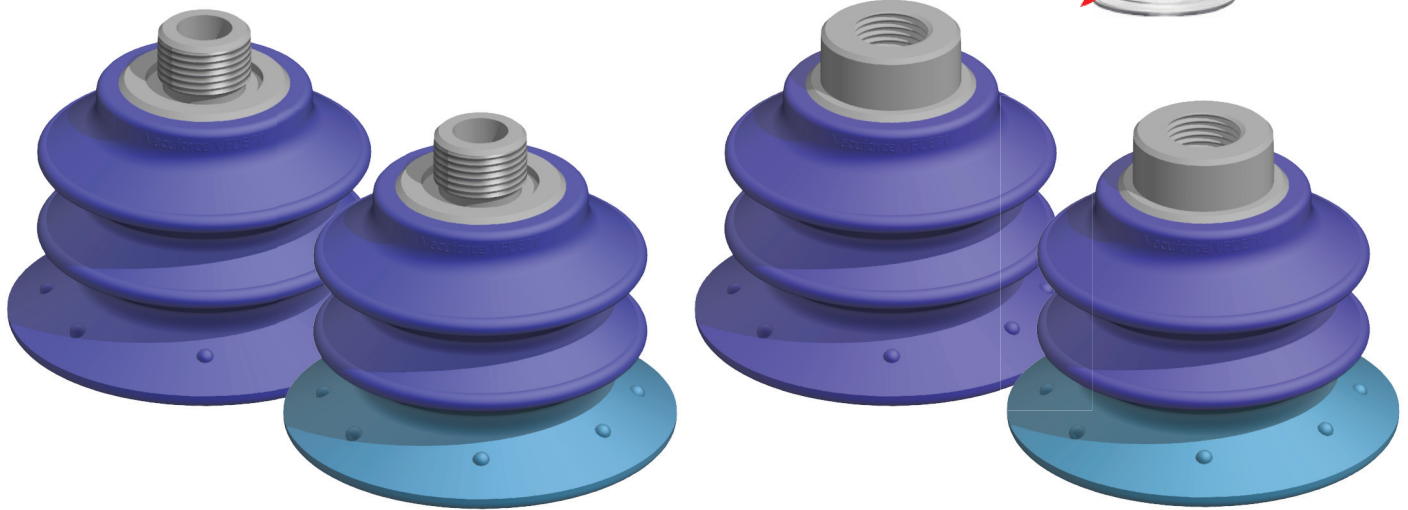


For cup material data please refer to vacuforce.com/materials

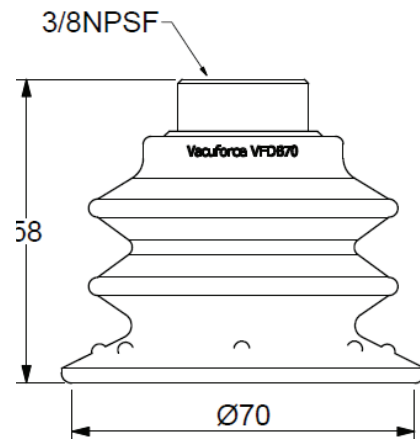
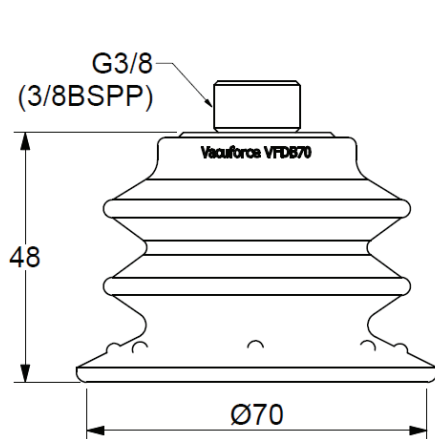
Part number example VFDB50DPU

50mm diameter dual durometer polyurethane diameter double bellows vacuum cup

- 70mm Diameter (2.75") double bellows design
- Dual durometer option - rigid 60 durometer body with soft 30 duro lip
- Non marking materials
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces
- Single and dual durometer polyurethane



DIMENSIONS (mm)



VFDB		70		PU		G3/8M	
Series		Model	Diameter	Cup Material		Model	
		70	70	PU	60 Durometer Polyurethane	G3/8M	
				DPU	30/60 Dual Durometer Polyurethane	3/8NPSF	

APPLICATIONS

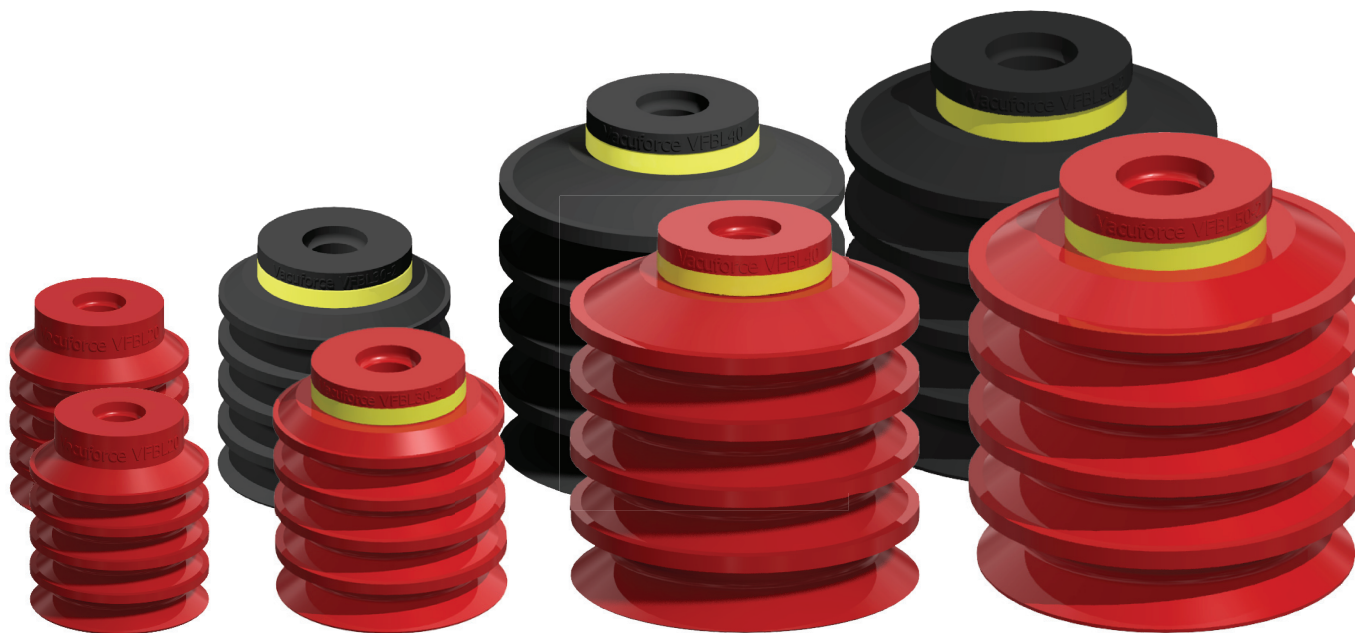
- Part pick and place
- Plastic and steel handling
- Glass and decorative stone handling
- Cardboard box handling

For cup material data please refer to vacuforce.com/materials

Part number example VFDB70DPU-G3/8M

70mm diameter dual durometer polyurethane diameter double bellows vacuum cup with G3/8 male fitting

- Multiple bellows design
- Compensates for height variances in part picking
- Thin web design allows for sealing on crinkled or uneven surfaces such as plastic wrapping in the food industry
- Available from 20mm to 50mm Diameter
- NBR, FDA Silicone and Metal Detectable Materials



VFBL

40-2

N

Series	Model	Diameter	Cup Material	
	20-2	20	N	Nitrile
	30-2	30	S	Red Silicone
	40-2	40	ST	White Translucent Silicone
	50-2	50	SMI	Metal Impregnated Red Silicone

For cup material data please refer to vacuforce.com/materials

Part number example VFBL30-2SMI

30mm diameter single multiple vacuum cup in red metal impregnated silicone



This cup series is available in metal detectable FDA compliant silicone.
For red colored metal detectable silicone use material code SMI.
For white translucent metal detectable silicone use material code STMI.



- 20mm Diameter (0.787") multiple bellows design
- Thin web design allows for sealing on crinkled or uneven surfaces such as plastic wrapping in the food industry
- NBR, FDA Silicone and Metal Detectable Materials
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces



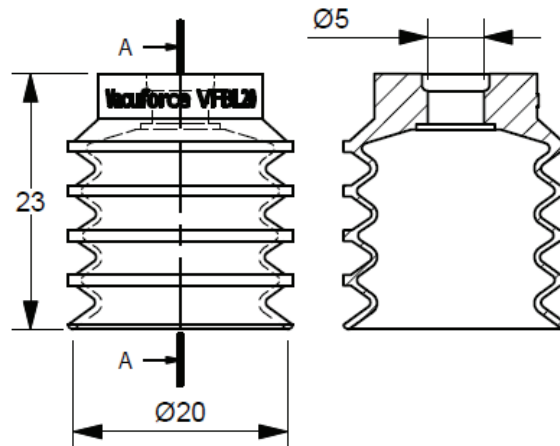
This cup series is available in metal detectable FDA compliant silicone.



APPLICATIONS

- Small part pick and place
- Plastic and food packaging
- Direct food contact with silicone materials

DIMENSIONS (mm)



VFBL		20		S	
Series		Model	Diameter	Cup Material	
		20	20	N	Nitrile
				S	Red Silicone
				ST	White Translucent Silicone
				SMI	Metal Impregnated Red Silicone

Cup Fittings	
Use Fitting Type	C



For cup material data please refer to vacuforce.com/materials

Part number example VFBL20-2SMI
20mm diameter multiple bellows vacuum cup in red metal impregnated silicone

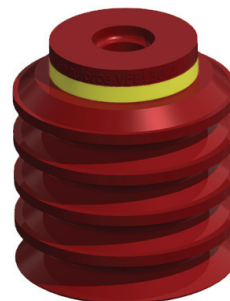
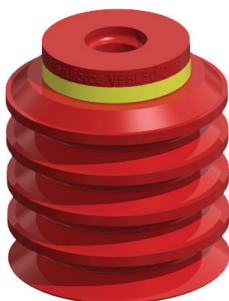
VFBL30-2 DOUBLE BELLOWS CUP



- 30mm Diameter (1.18") multiple bellows design
- Thin web design allows for sealing on crinkled or uneven surfaces such as plastic wrapping in the food industry
- NBR, FDA Silicone and Metal Detectable Materials
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces



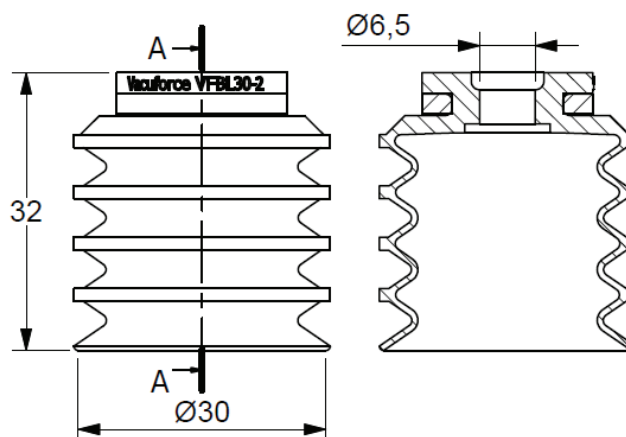
This cup series is available in metal detectable FDA compliant silicone.



APPLICATIONS

- Small part pick and place
- Plastic and food packaging
- Direct food contact with silicone materials

DIMENSIONS (mm)



VFBL

30-2

S

Series	Model	Diameter
	30-2	30

Cup Material	
N	Nitrile
S	Red Silicone
ST	White Translucent Silicone
SMI	Metal Impregnated Red Silicone

Cup Fittings	
Use Fitting Type	D



For cup material data please refer to vacuforce.com/materials

Part number example VFBL30-2SMI

30mm diameter multiple bellows vacuum cup in red metal impregnated silicone

- 40mm Diameter (1.57") multiple bellows design
- Thin web design allows for sealing on crinkled or uneven surfaces such as plastic wrapping in the food industry
- NBR, FDA Silicone and Metal Detectable Materials
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces



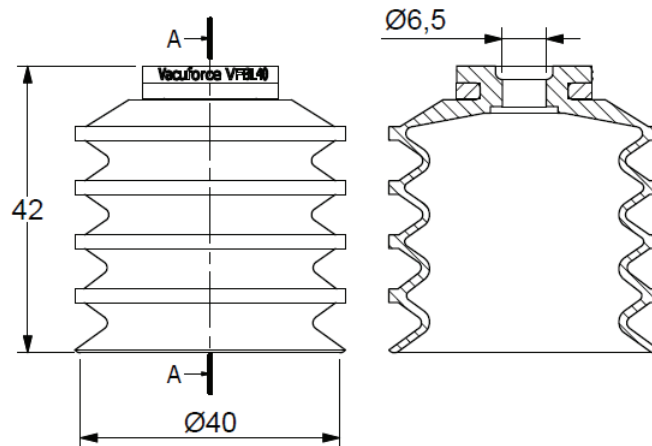
This cup series is available in metal detectable FDA compliant silicone.



APPLICATIONS

- Small part pick and place
- Plastic and food packaging
- Direct food contact with silicone materials

DIMENSIONS (mm)



VFBL		40	
Series		Model	Diameter
		40-2	40

Cup Fittings	
Use Fitting Type	D



S	
Cup Material	
N	Nitrile
S	Red Silicone
ST	White Translucent Silicone
SMI	Metal Impregnated Red Silicone

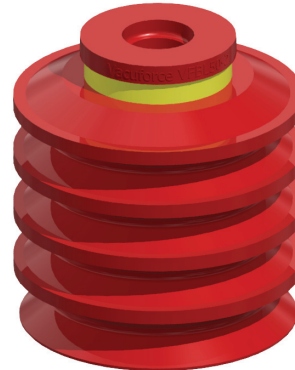
For cup material data please refer to vacuforce.com/materials

Part number example VFBL40-2SMI
40mm diameter multiple bellows vacuum cup in red metal impregnated silicone

- 50mm Diameter (1.97") multiple bellows design
- Thin web design allows for sealing on crinkled or uneven surfaces such as plastic wrapping in the food industry
- NBR and FDA Silicone materials
- Compensates for height variances in part picking
- Can seal on convex and concave surfaces



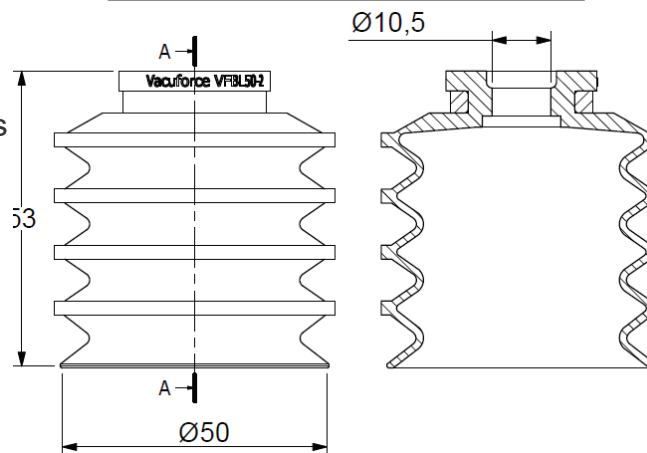
This cup series is available in metal detectable FDA compliant silicone.



APPLICATIONS

- Small part pick and place
- Plastic and food packaging
- Direct food contact with silicone materials

DIMENSIONS (mm)



VFBL

50-2

S

Series	Model	Diameter
	50-2	50

Cup Material	
N	Nitrile
S	Red Silicone
ST	White Translucent Silicone

Cup Fittings

Use Fitting Type	E
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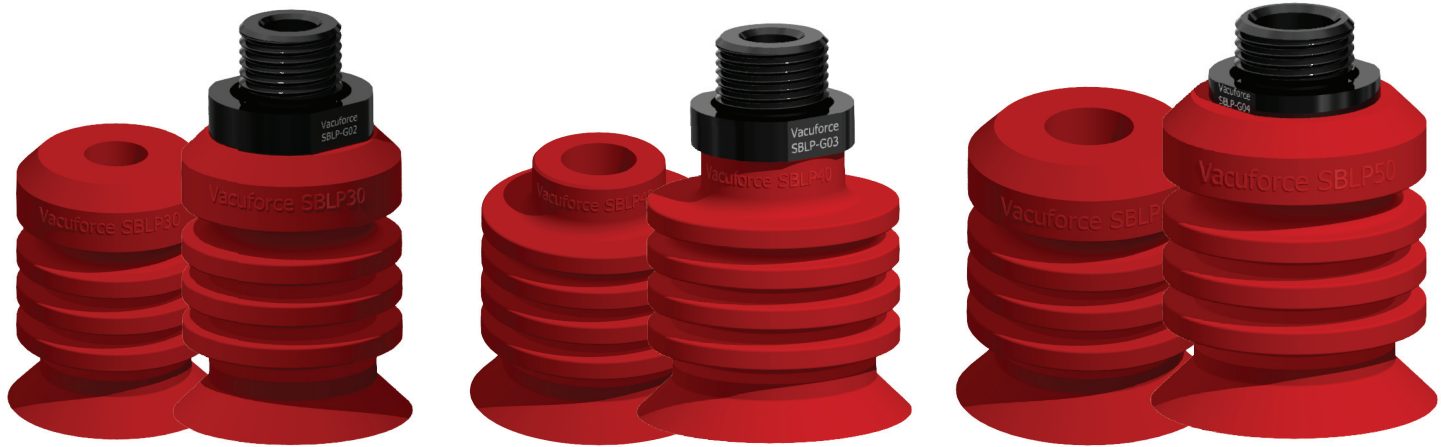


For cup material data please refer to vacuforce.com/materials

Part number example VFBL50-2SMI

50mm diameter single multiple vacuum cup in red metal impregnated silicone

- Designed for handling thin plastic and paper bags
- Ultra thin seal lip ensures vacuum tight seal
- Ideal for bag opening and transfer
- High flow cup fitting
- Available in FDA silicone as standard



SBLP	30	S	G1/4
Series	Model	Diameter	Cup Material
	30	30	S
	40	40	Red Silicone
	50	50	
Fitting Thread			
G1/4	G1/4		
G3/8	G3/8		
G1/2	G1/2		

Part number example SBLP40S

40mm vacuum suction cup in silicone

Part number example SBLP40S-G3/8

40mm vacuum suction cup in silicone with male G3/8 Cup Fitting

For cup material data please refer to vacuforce.com/materials

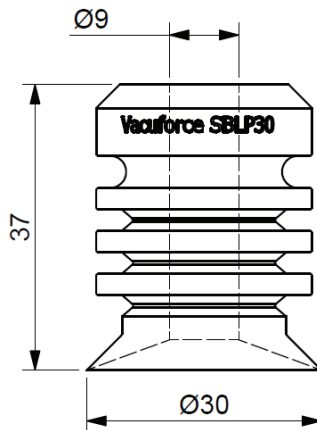
- 30mm Diameter multiple bellows cup
- Designed for handling thin plastic and paper bags
- Ultra thin seal lip ensures vacuum tight seal
- Ideal for bag opening and transfer
- High flow cup fitting
- Available in FDA silicone as standard

APPLICATIONS

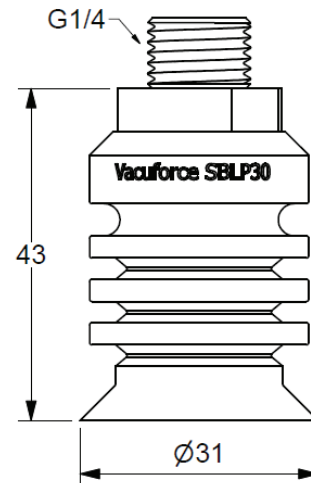
- Thin film packaging
- Frozen food packaging
- Direct food contact



DIMENSIONS (mm) Cup Only



DIMENSIONS (mm) Cup & Fitting



SBLP		30		S		G1/4	
Series		Model	Diameter	Cup Material		Fitting Thread	
		30	30	S	Red Silicone	G1/4	G1/4
						N1/4	1/4NPT

For cup material data please refer to vacuforce.com/materials

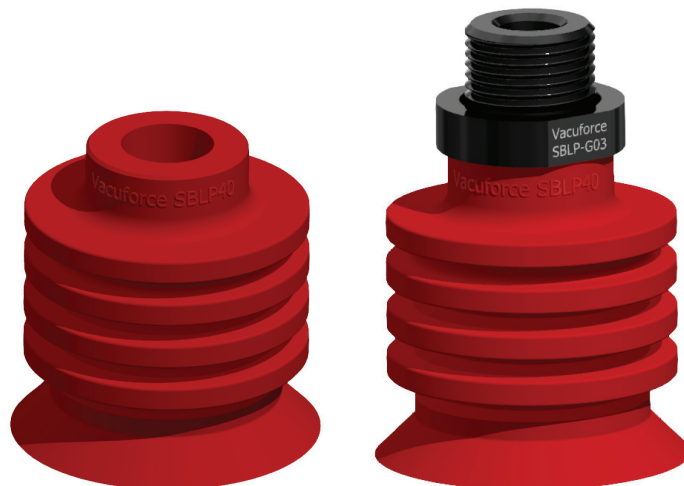
Part number example SBLP30S - 30mm silicone vacuum cup

Part number example SBLP30S-G1/4 - 30mm silicone vacuum cup with G1/4 fitting

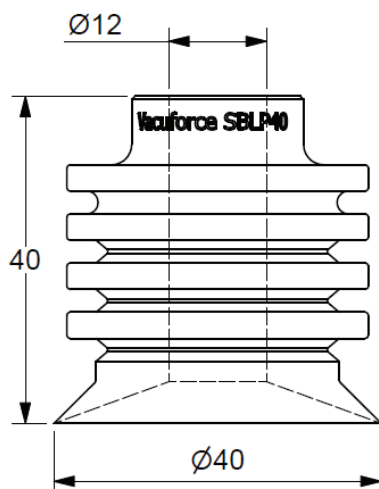
- 40mm Diameter multiple bellows cup
- Designed for handling thin plastic and paper bags
- Ultra thin seal lip ensures vacuum tight seal
- Ideal for bag opening and transfer
- High flow cup fitting
- Available in FDA silicone as standard

APPLICATIONS

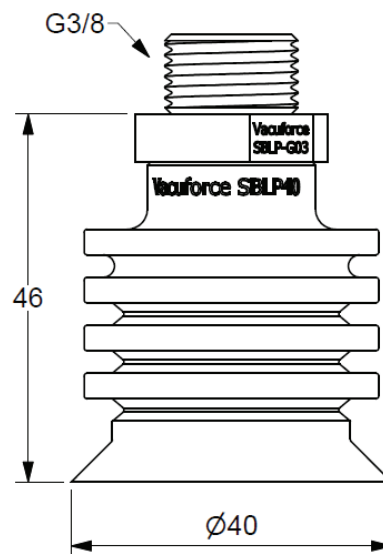
- Thin film packaging
- Frozen food packaging
- Direct food contact



DIMENSIONS (mm) Cup Only



DIMENSIONS (mm) Cup & Fitting



SBLP		40		S		G3/8	
Series		Model	Diameter	Cup Material		Fitting Thread	
		40	40	S	Red Silicone	G3/8	G3/8
						N3/8	3/8NPT

For cup material data please refer to vacuforce.com/materials

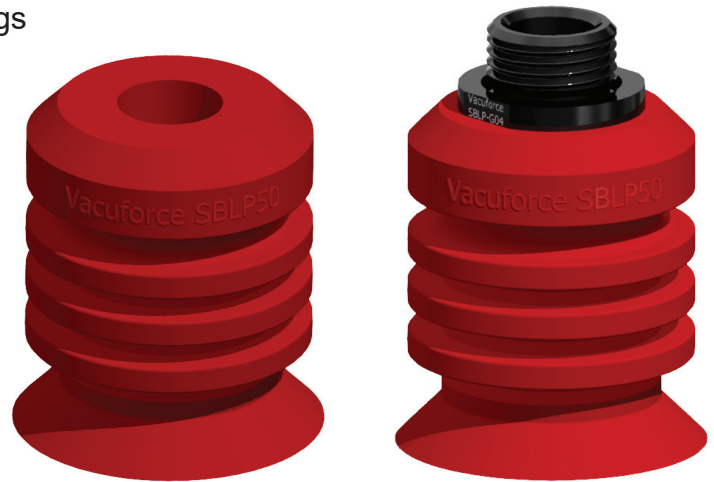
Part number example SBLP40S - 40mm silicone vacuum cup

Part number example SBLP40S-G3/8 - 40mm silicone vacuum cup with G1/4 fitting

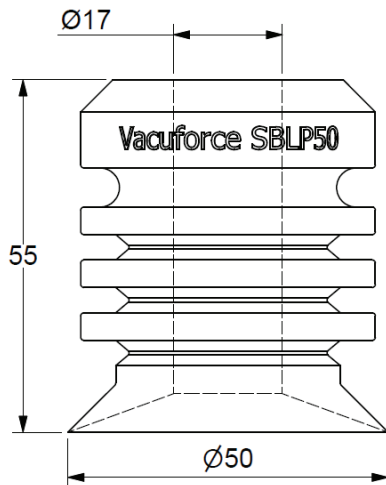
- 50mm Diameter multiple bellows cup
- Designed for handling thin plastic and paper bags
- Ultra thin seal lip ensures vacuum tight seal
- Ideal for bag opening and transfer
- High flow cup fitting
- Available in FDA silicone as standard

APPLICATIONS

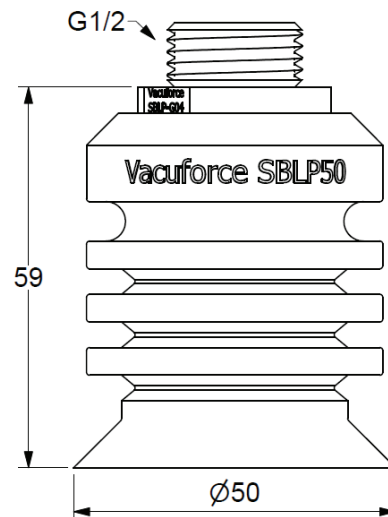
- Thin film packaging
- Frozen food packaging
- Direct food contact



DIMENSIONS (mm) Cup Only



DIMENSIONS (mm) Cup & Fitting



SBLP		50		S		G1/2	
Series		Model	Diameter	Cup Material		Fitting Thread	
		50	50	S	Red Silicone	G1/2	G1/2
						N1/2	1/2NPT

For cup material data please refer to vacuforce.com/materials

Part number example SBLP50S - 50mm silicone vacuum cup

Part number example SBLP50S-G1/2 - 50mm silicone vacuum cup with G1/2 fitting

STC SINGLE BELLOWS TRACTION CUPS



The STC series of vacuum cups are designed to offer the vacuum user a cup that can pick up on angled surfaces and adapt to products such as formed sheet steel that may have a tight radius. The cups include an aluminum male or female threaded fitting for machinery and vacuum source connection.

This cup is available in Nitrile rubber in 60 Durometer. Ideal for handling pressed steel sheet and glass products. The single bellows design offers slight vertical movement when vacuum is applied independent of the machinery which aids in sheet separation and also compliance on concave and convex surfaces.



STC	100N	60	G3/8F
Series	Model	Diameter (mm)	Durometer
	22N	22	
	30N	30	
	40N	40	
	50N	50	
	60N	60	
	80N	80	
	100N	100	
	125N	125	
			Thread
			G1/4F
			G1/4M
			G3/8F
			M10M
			M14M
			RA

APPLICATIONS

- Automotive steel stamping
- Glass handling
- Plywood transfer
- Handling of oily steel surfaces
- Concave and convex surfaces
- Large box & carton handling

Part number example STC100N-60-G3/8F

100mm diameter bellows vacuum cup in 60 durometer NBR with G3/8 female thread connection port.

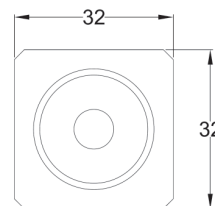
For cup material data please refer to vacuforce.com/materials

LEVEL COMPENSATORS

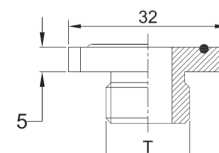


Refer to page 1.33 for suitable level compensators for this vacuum cup range.

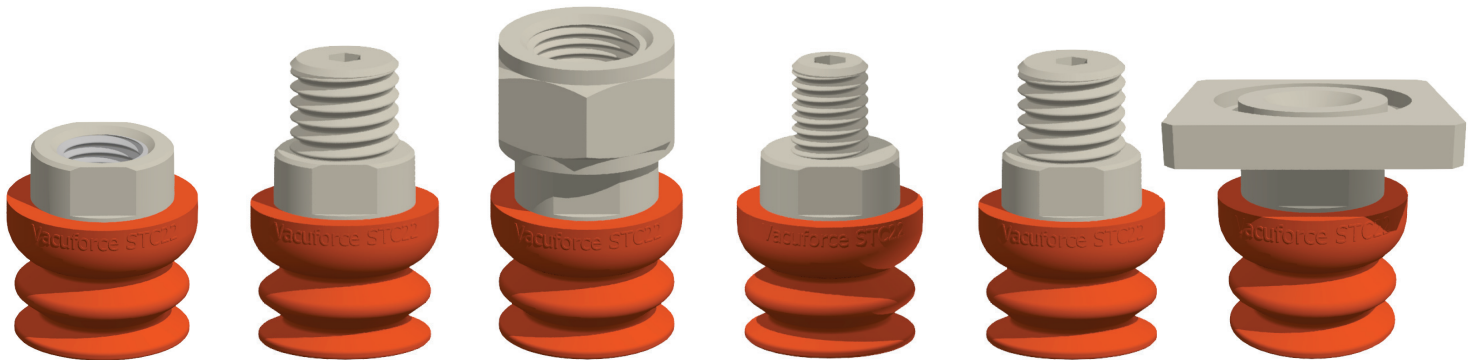
QUICK RELEASE FITTINGS



Model	T
QRG38	G3/8
QRN38	3/8NPSF



- 22mm Diameter single bellows traction cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options



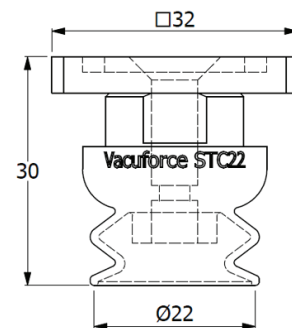
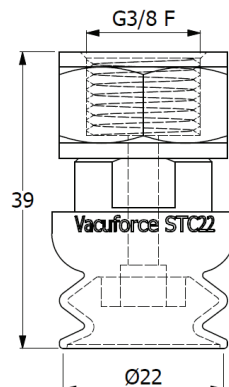
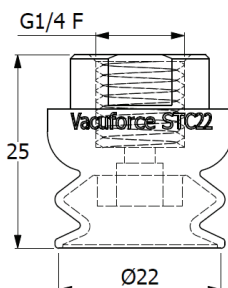
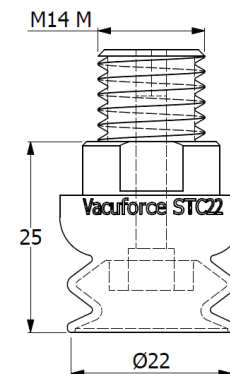
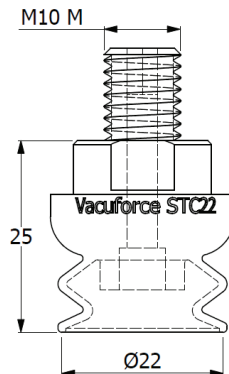
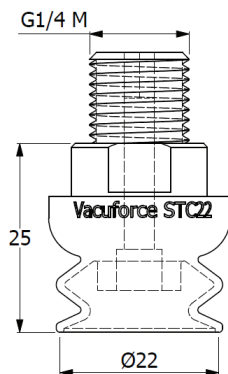
STC	22N	60	G3/8F
Series	Model	Diameter (mm)	Durometer
	22N	22	60

Thread
G1/4F
G1/4M
G3/8F
M10M
M14M
RA

Part number example STC22N-60-G3/8F
22mm diameter bellows vacuum cup in 60 durometer NBR with G3/8 female thread connection port.

For cup material data please refer to vacuforce.com/materials

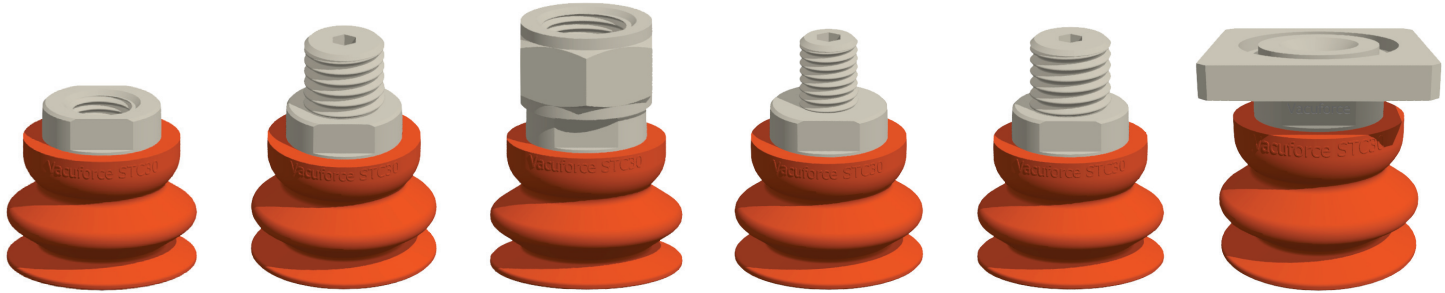
DIMENSIONS (mm)



STC30 SINGLE BELLOWS TRACTION CUP



- 30mm Diameter single bellows traction cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options

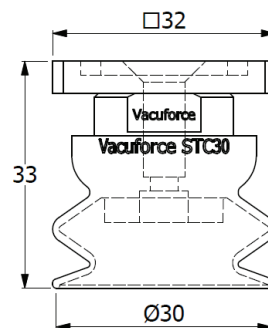
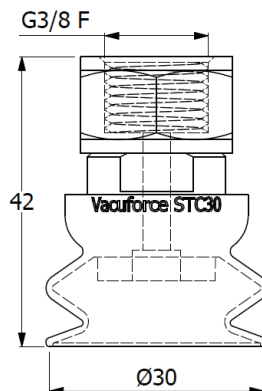
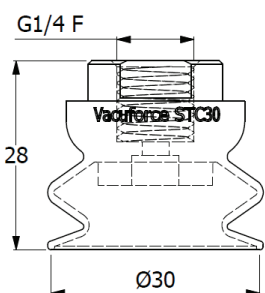
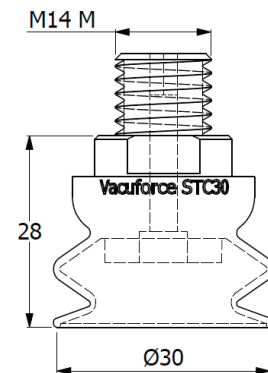
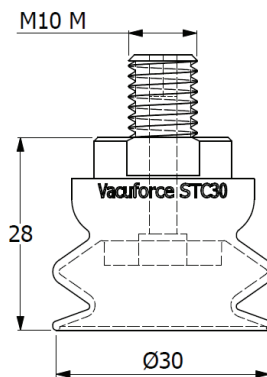
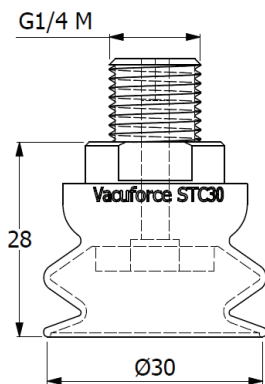


STC	30N	60	G3/8F
Series	Model	Diameter (mm)	Durometer
	30N	30	60
Thread			
G1/4F			
G1/4M			
G3/8F			
M10M			
M14M			
RA			

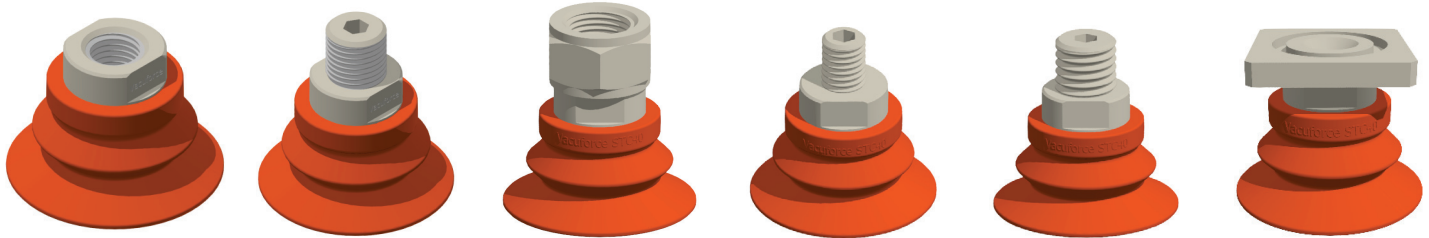
Part number example STC30N-60-G3/8F
 30mm diameter bellows vacuum cup in 60 durometer NBR
 with G3/8 female thread connection port.

For cup material data please refer to vacuforce.com/materials

DIMENSIONS (mm)



- 40mm Diameter single bellows traction cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options

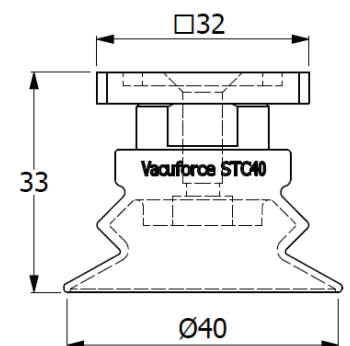
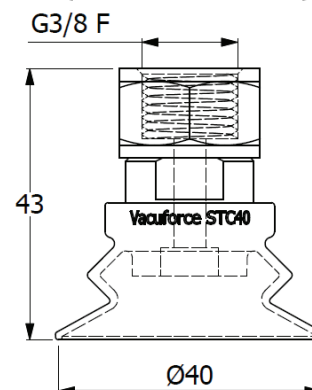
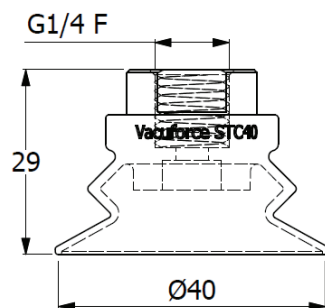
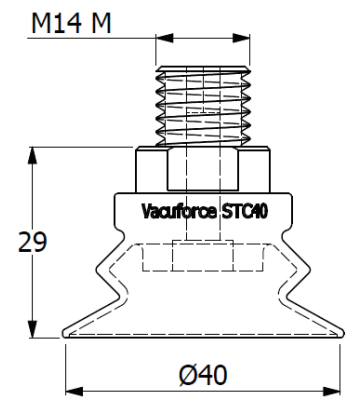
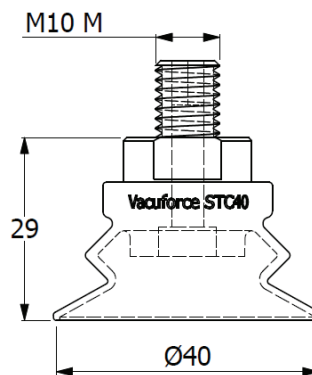
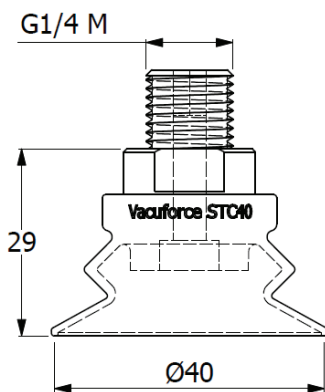


STC	40N	60	G3/8F
Series	Model	Diameter (mm)	Durometer
	40N	40	60
Thread			
G1/4F			
G1/4M			
G3/8F			
M10M			
M14M			
RA			

Part number example STC40N-60-G3/8F
40mm diameter bellows vacuum cup in 60 durometer NBR with G3/8 female thread connection port.

For cup material data please refer to vacuforce.com/materials

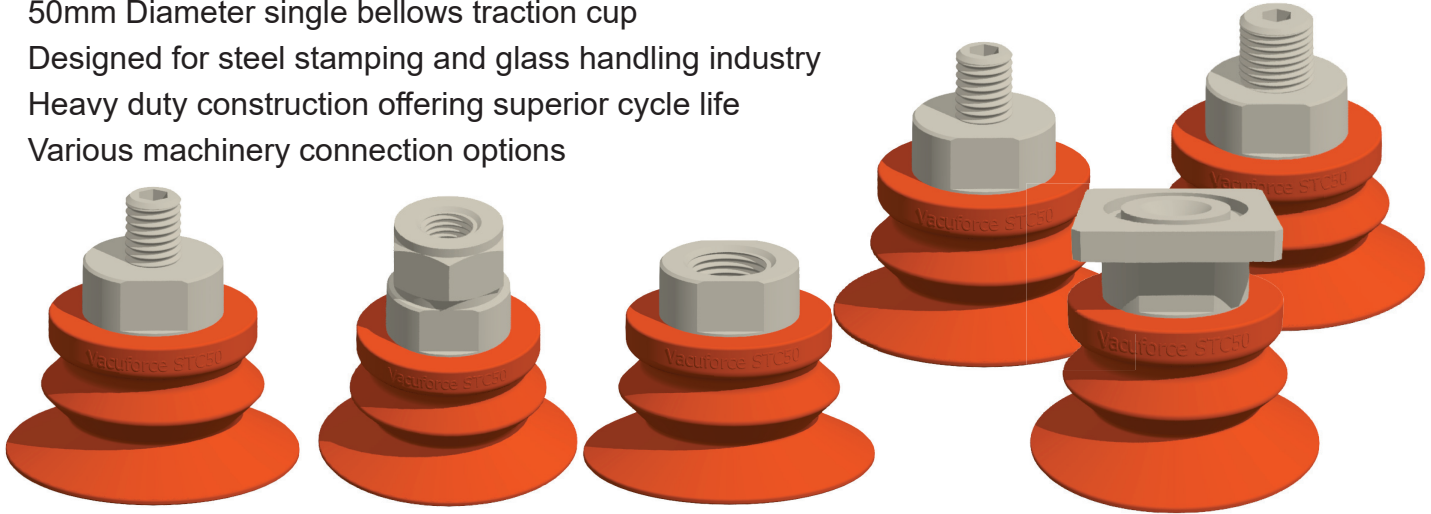
DIMENSIONS (mm)



STC50 SINGLE BELLOWS TRACTION CUP



- 50mm Diameter single bellows traction cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options

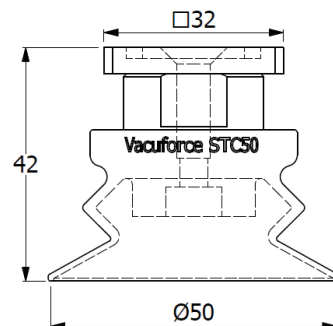
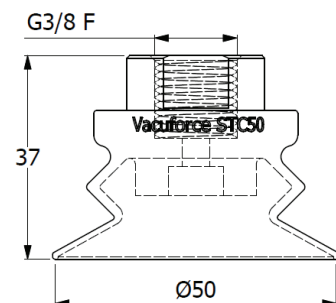
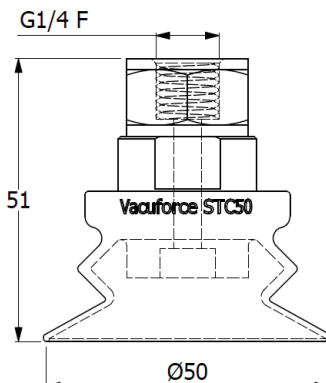
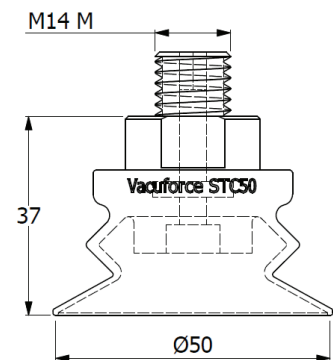
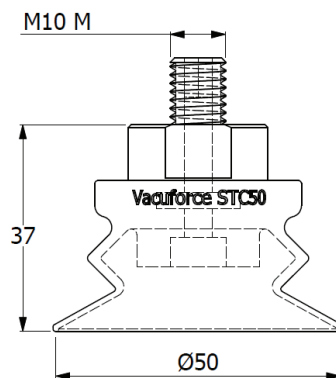
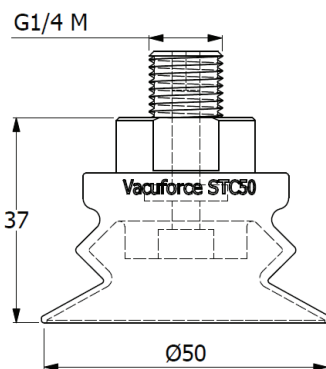


STC	50N	60	G3/8F
Series	Model	Diameter (mm)	Durometer
	50N	50	60
Thread			
G1/4F			
G1/4M			
G3/8F			
M10M			
M14M			
RA			

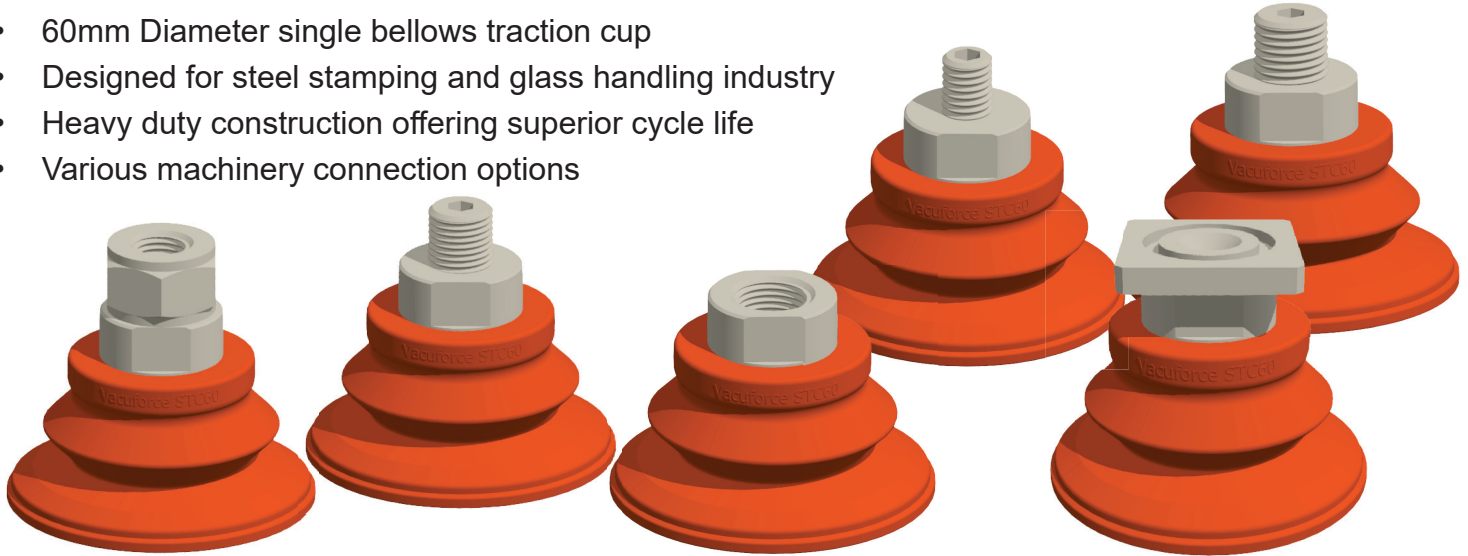
Part number example STC50N-60-G3/8F
50mm diameter bellows vacuum cup in 60 durometer NBR with G3/8 female thread connection port.

For cup material data please refer to vacuforce.com/materials

DIMENSIONS (mm)



- 60mm Diameter single bellows traction cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options

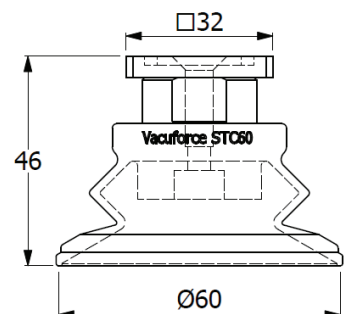
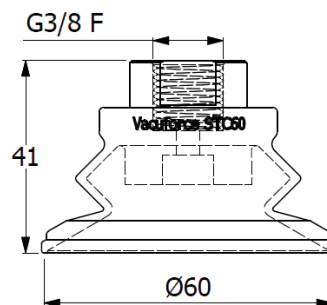
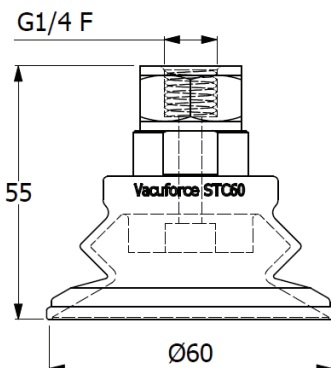
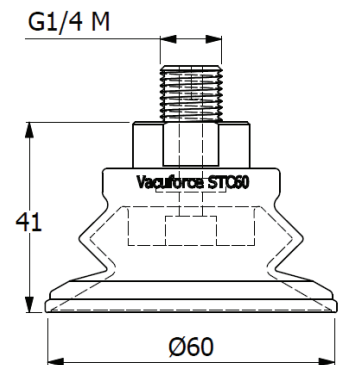
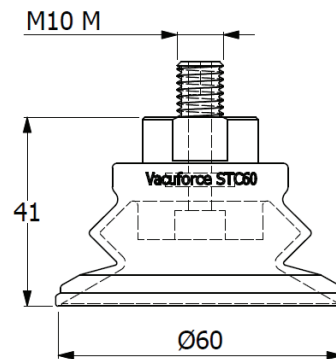
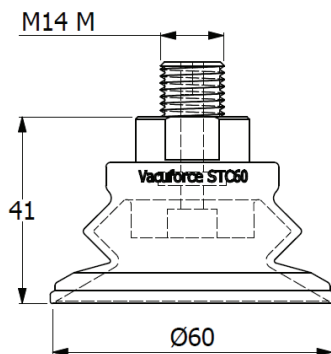


STC	60N	60	G3/8F
Series	Model	Diameter (mm)	Durometer
	60N	60	60
			Thread
			G1/4F
			G1/4M
			G3/8F
			M10M
			M14M
			RA

Part number example STC60N-60-G3/8F
60mm diameter bellows vacuum cup in 60 durometer NBR with G3/8 female thread connection port.

For cup material data please refer to vacuforce.com/materials

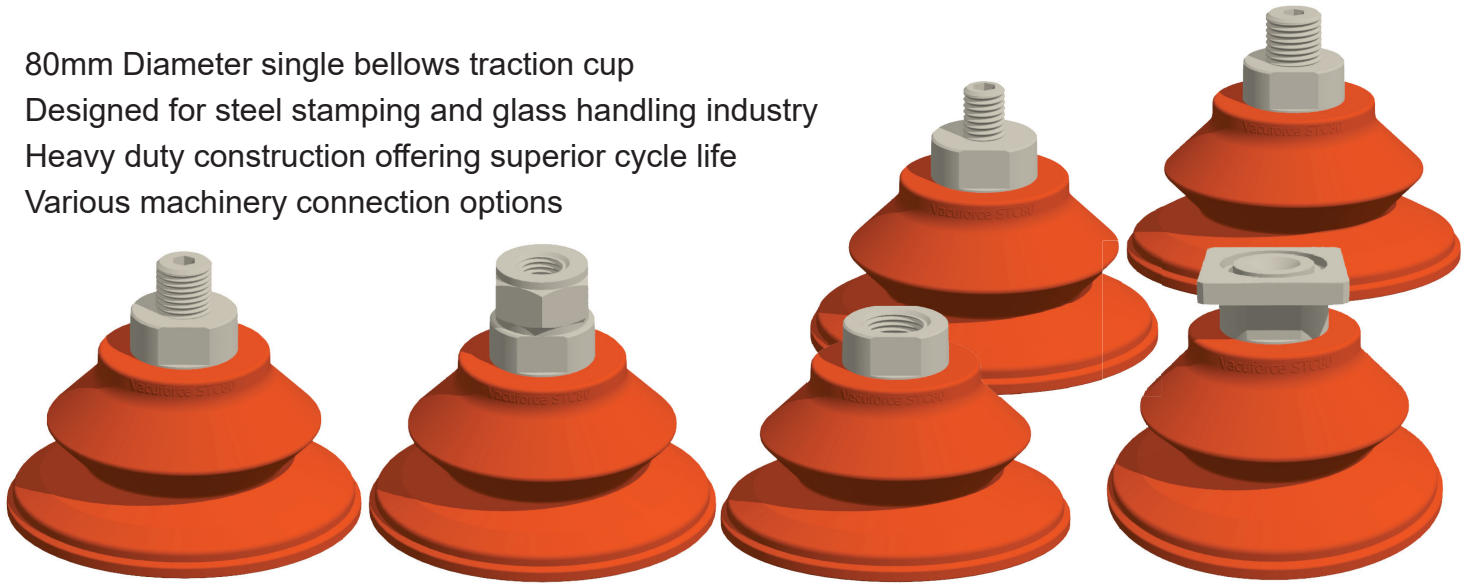
DIMENSIONS (mm)



STC80 SINGLE BELLOWS TRACTION CUP



- 80mm Diameter single bellows traction cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options



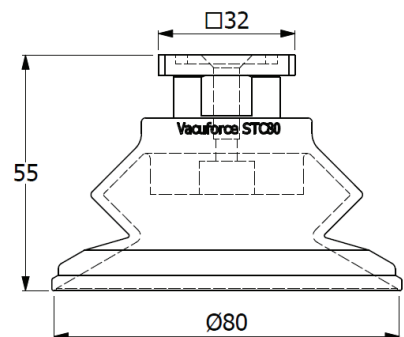
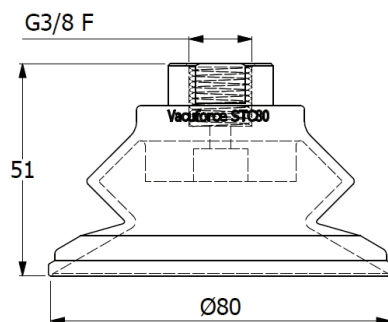
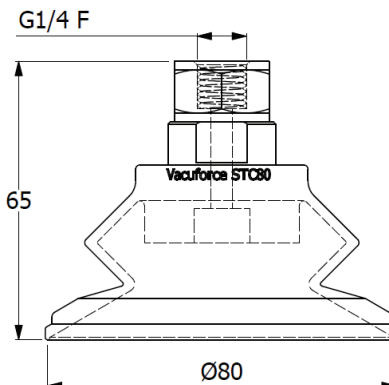
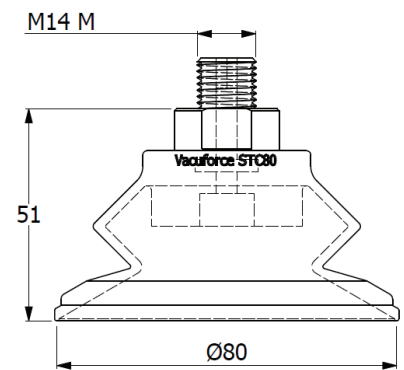
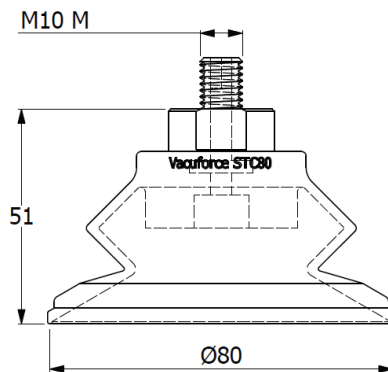
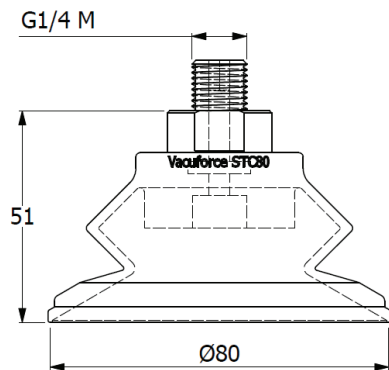
STC	80N	60	G3/8F
Series	Model	Diameter (mm)	Durometer
	80N	80	60

Part number example STC80N-60-G3/8F
80mm diameter bellows vacuum cup in 60 durometer NBR with G3/8 female thread connection port.

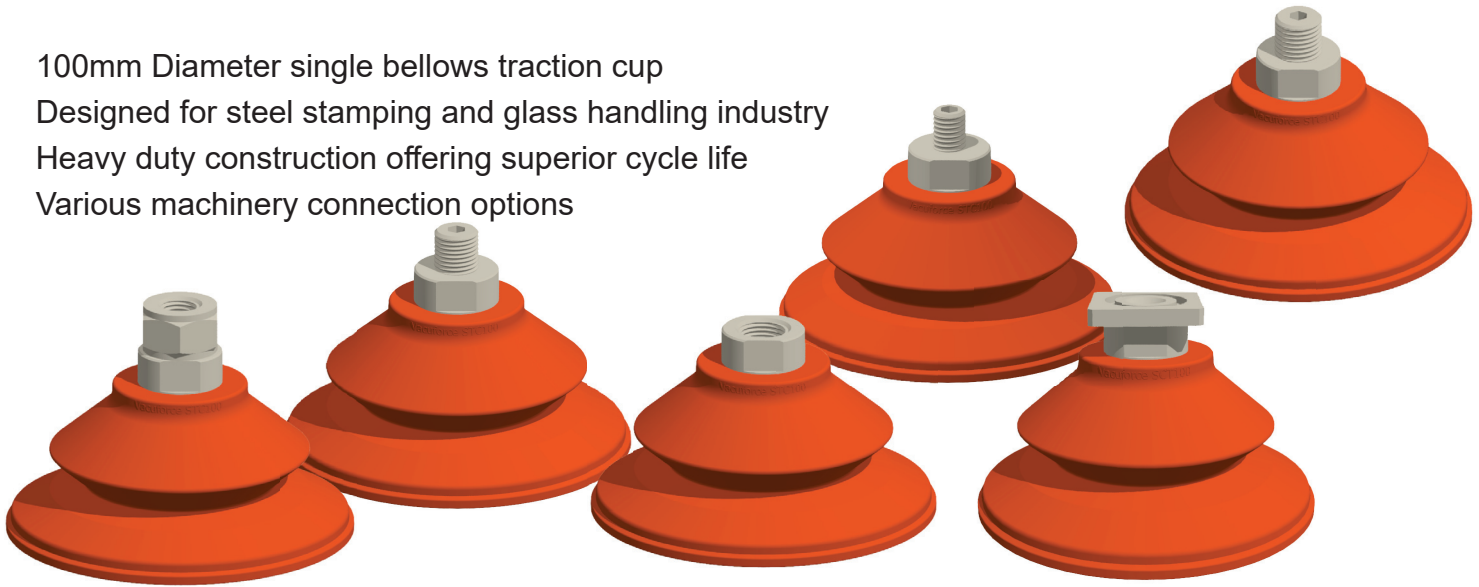
For cup material data please refer to vacuforce.com/materials

Thread
G1/4F
G1/4M
G3/8F
M10M
M14M
RA

DIMENSIONS (mm)



- 100mm Diameter single bellows traction cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options

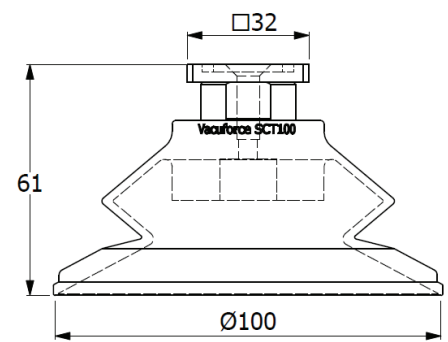
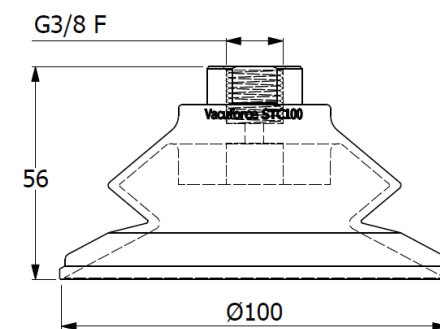
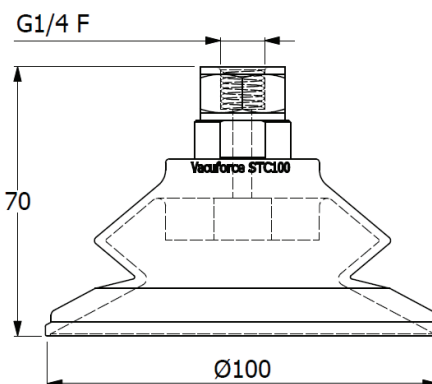
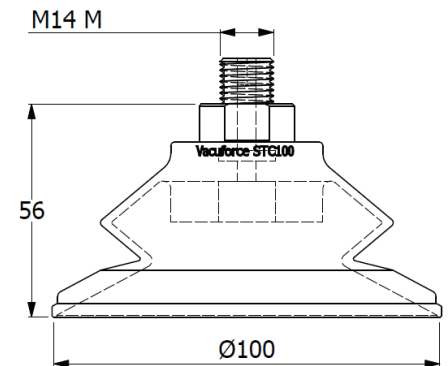
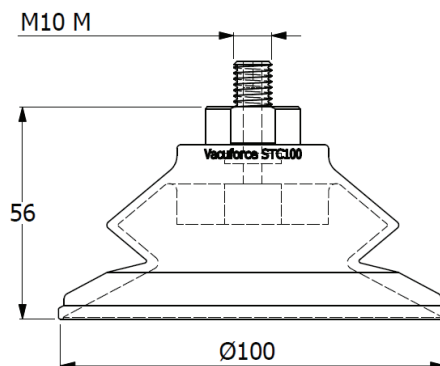
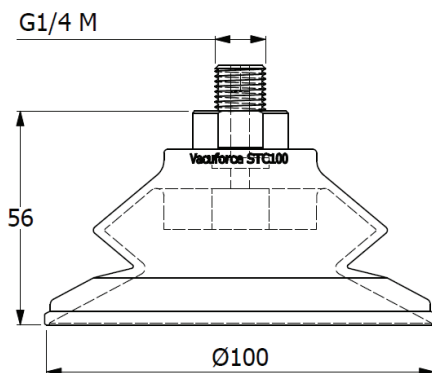


STC	100N	60	G3/8F
Series	Model	Diameter (mm)	Durometer
	100N	100	60
Thread			
G1/4F			
G1/4M			
G3/8F			
M10M			
M14M			
RA			

Part number example STC100N-60-G3/8F
100mm diameter bellows vacuum cup in 60 durometer NBR with G3/8 female thread connection port.

For cup material data please refer to vacuforce.com/materials

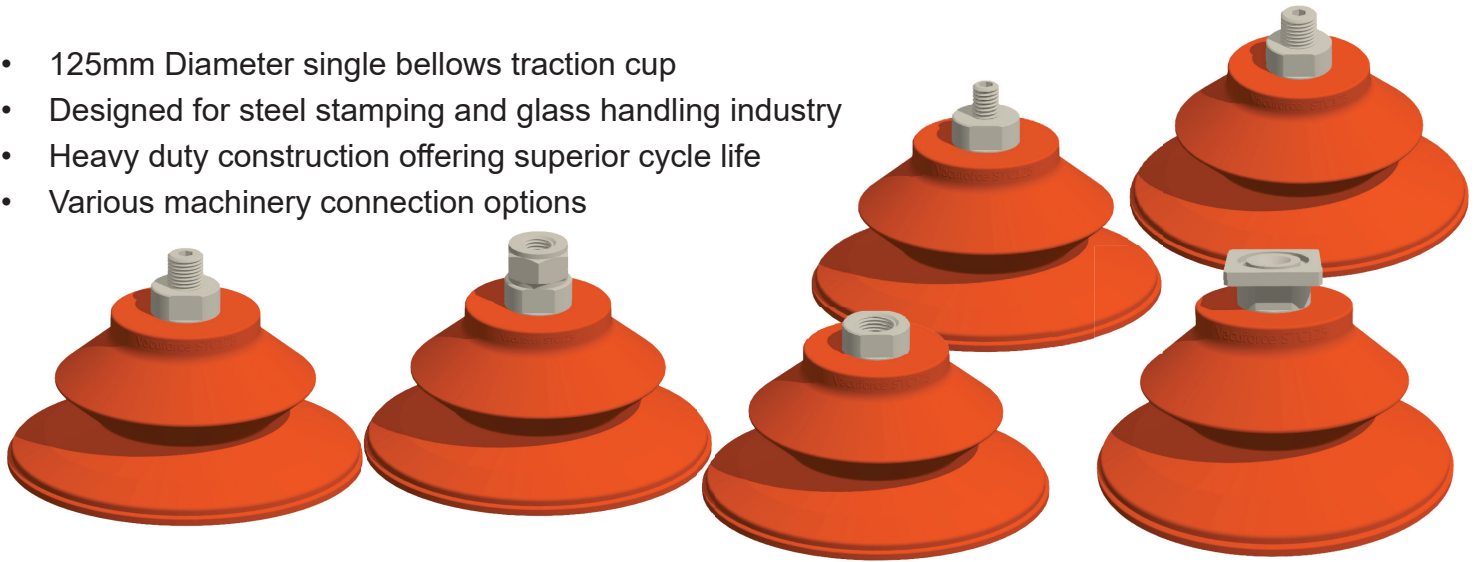
DIMENSIONS (mm)



STC125 SINGLE BELLOWS TRACTION CUP



- 125mm Diameter single bellows traction cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options

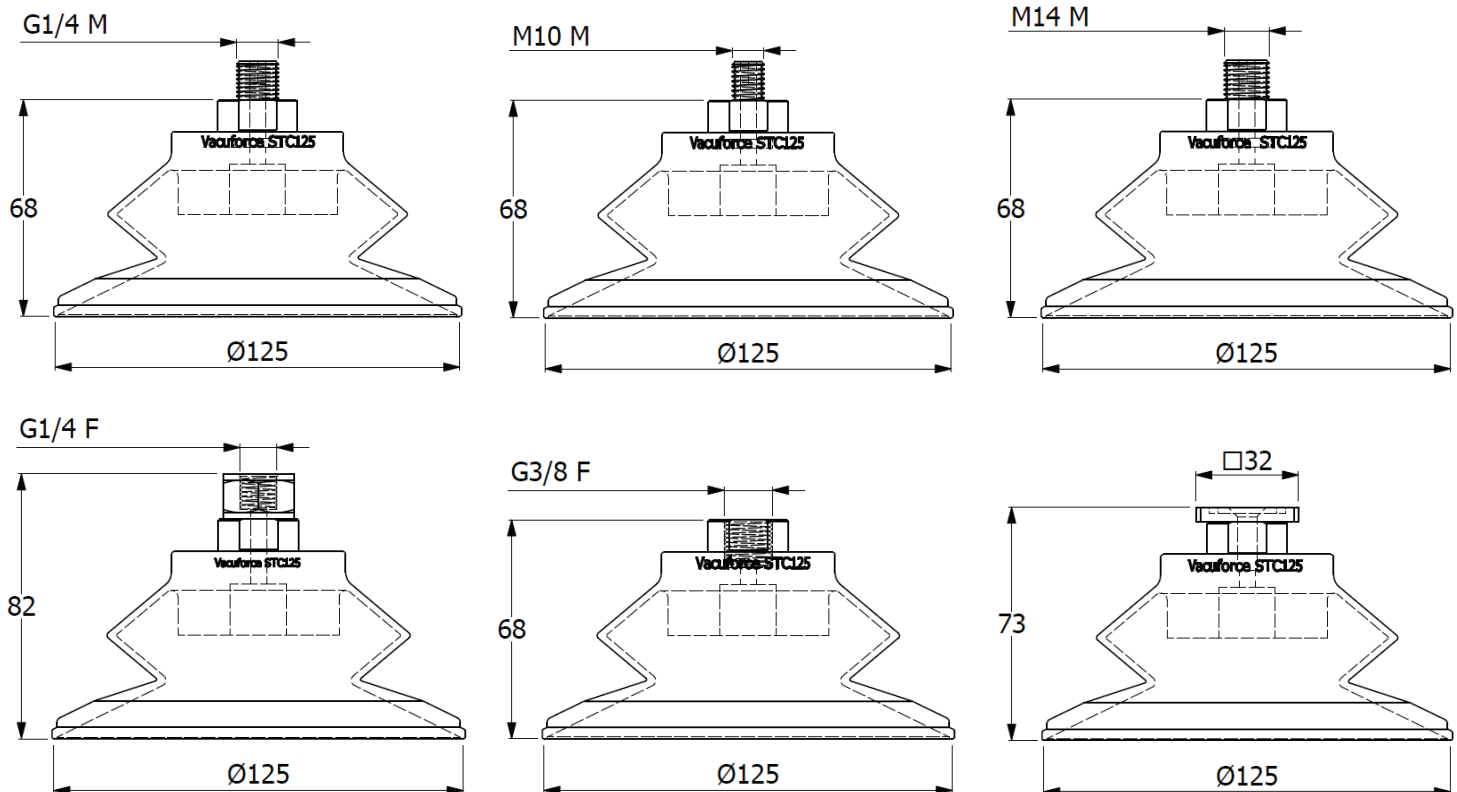


STC	125N	60	G3/8F
Series	Model	Diameter (mm)	Durometer
	125N	125	60
Thread			
G1/4F			
G1/4M			
G3/8F			
M10M			
M14M			
RA			

Part number example STC125N-60-G3/8F
125mm diameter bellows vacuum cup in 60 durometer NBR with G3/8 female thread connection port.

For cup material data please refer to vacuforce.com/materials

DIMENSIONS (mm)



SBF POLYURETHANE BELLOWS TRACTION CUPS



The SBF series of vacuum cups are designed to offer the vacuum user a cup that can pick up on angled surfaces and adapt to products such as formed sheet steel that may have a tight radius. The cups include an aluminum male or female threaded fitting for machinery and vacuum source connection.

This cup is available as standard in POLYURETHANE which is a MARK FREE compound. It is as flexible as rubber but much harder wearing. Ideal for handling pressed steel sheet and glass products. Standard Durometer is 60 but other Durometer grades are available upon request.

The single bellows design offers slight vertical movement when vacuum is applied independent of the machinery aiding sheet separation and also compliance on concave and convex surfaces.



SBF 80			PU		G3/8F	
Series	Model	Diameter (mm)	Material		Thread	
	30	30	PU	Polyurethane	G1/4F	
	40	40			G1/4M	
	50	50			G3/8F	
	60	60			G3/8M	
	80	80			3/8NPSF	
	100	100				

APPLICATIONS

- Automotive steel stamping
- Glass handling
- Plywood transfer
- Handling of oily steel surfaces
- Concave and convex surfaces
- Large box & carton handling

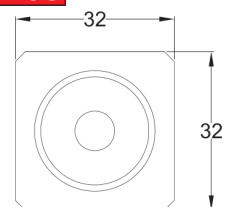
Part number example SBF60-PU-G3/8F 60mm diameter vacuum cup in polyurethane with G3/8 female thread.

LEVEL COMPENSATORS

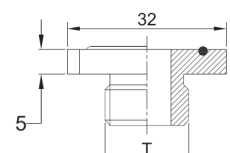
Refer to page 1.33 for suitable level compensators for this vacuum cup range.



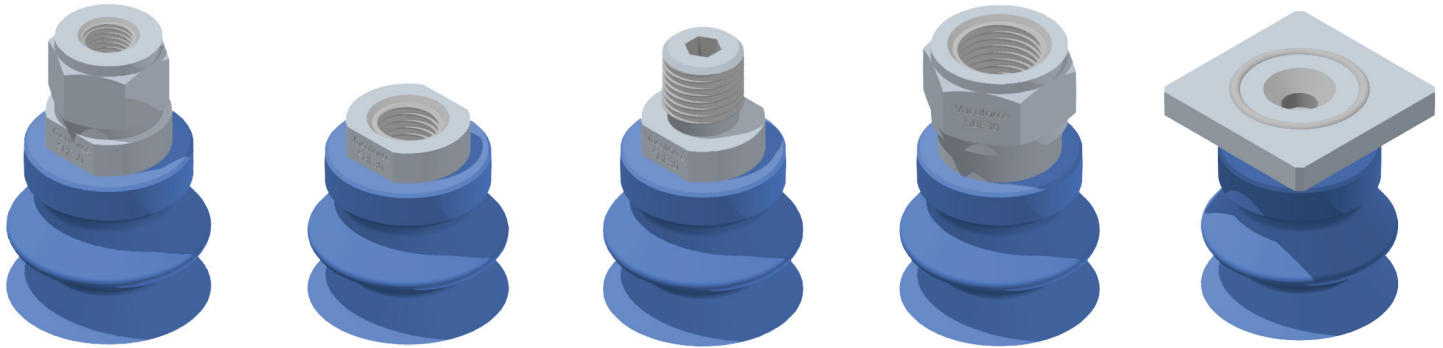
QUICK RELEASE FITTINGS



Model	T
QRG38	G3/8
QRN38	3/8NPSF



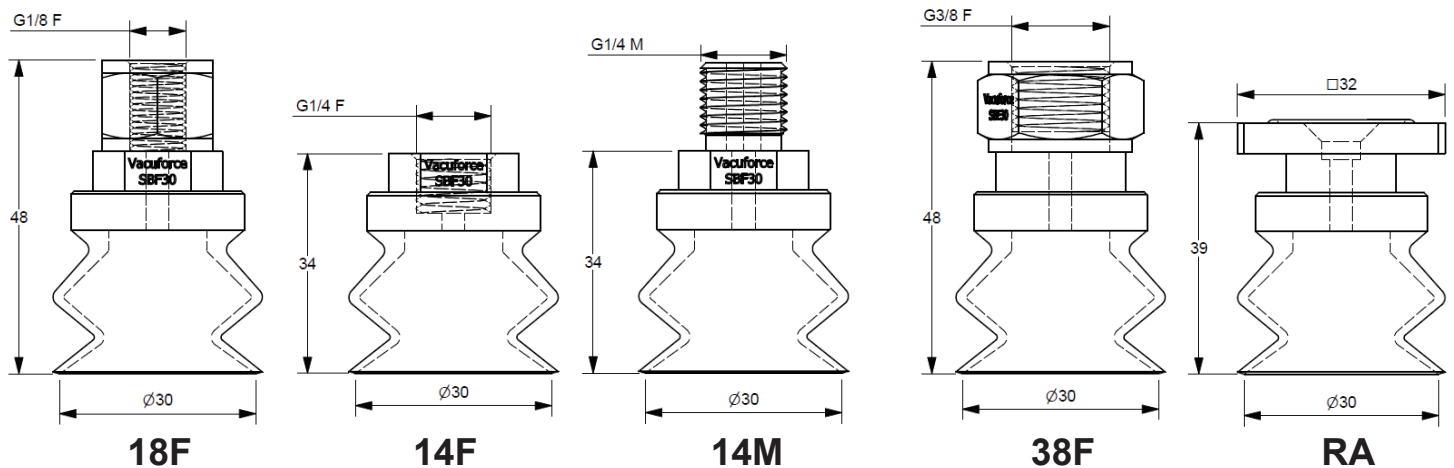
- 30mm Diameter single bellows cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Non-marking polyurethane compound
- Various machinery connection options



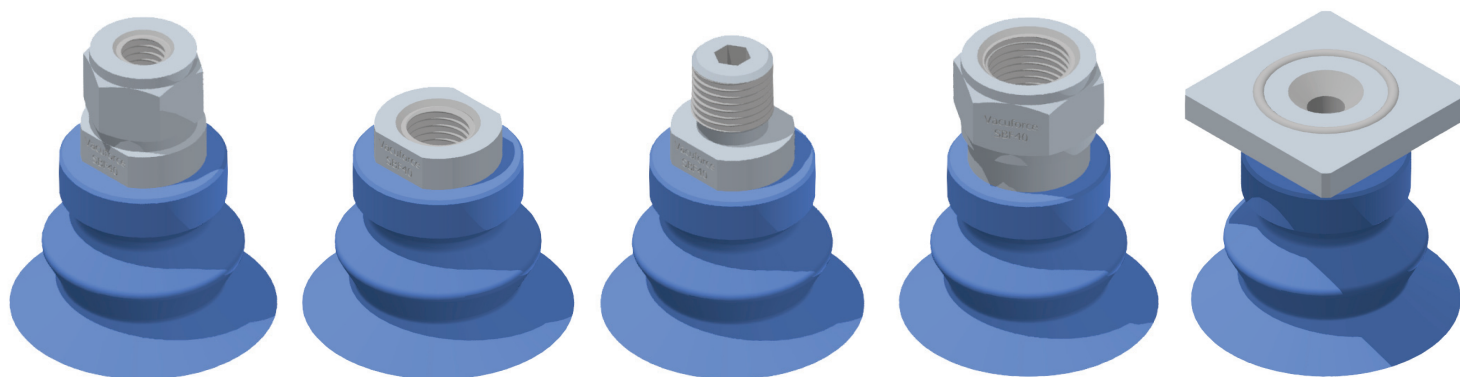
SBF		30		PU		18F	
Series		Model	Diameter	Cup Material		Fitting Thread	
		30	30	PU	Polyurethane	18F	G1/8F
						14F	G1/4F
						14M	G1/4M
						38F	G3/8F
						RA	Quick Connector

For cup material data please refer to vacuforce.com/materials
 Part number example SBF30-PU-38F - 30mm diameter polyurethane vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



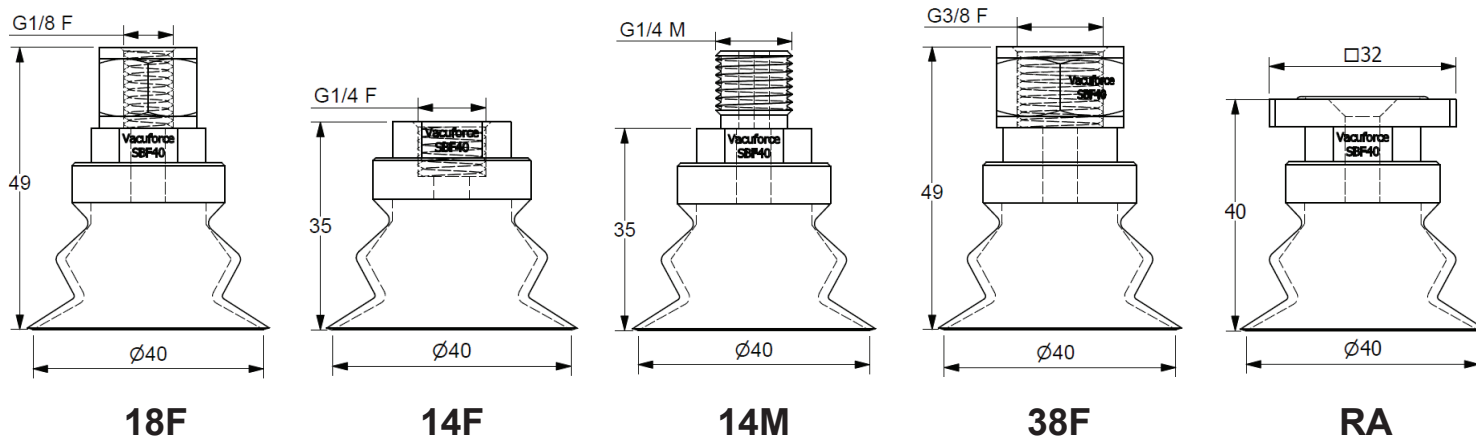
- 40mm Diameter single bellows cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Non-marking polyurethane compound
- Various machinery connection options



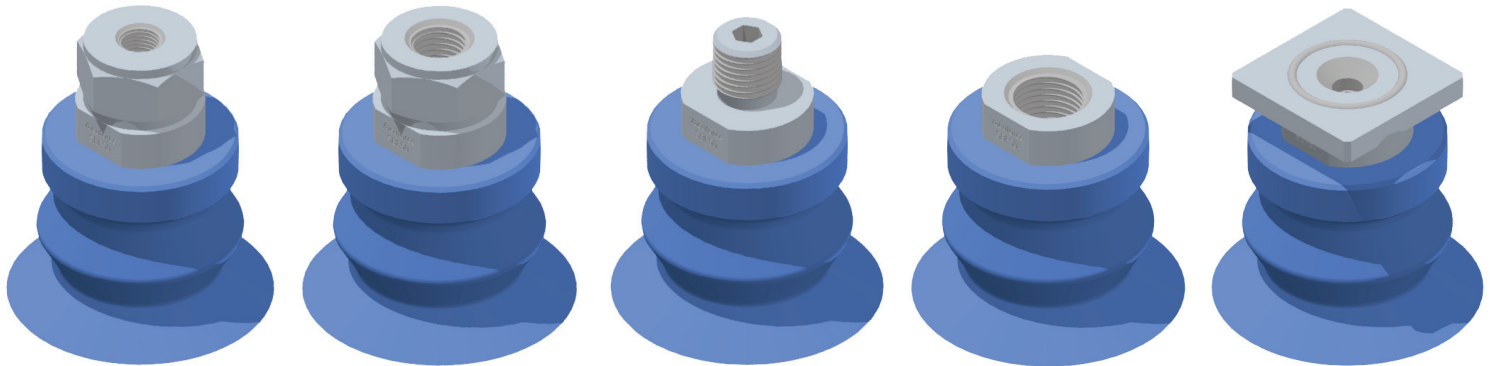
SBF		40		PU		18F	
Series		Model	Diameter	Cup Material		Fitting Thread	
		40	40	PU	Polyurethane	18F	G1/8F
						14F	G1/4F
						14M	G1/4M
						38F	G3/8F
						RA	Quick Connector

For cup material data please refer to vacuforce.com/materials
 Part number example SBF40-PU-38F - 40mm diameter polyurethane vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



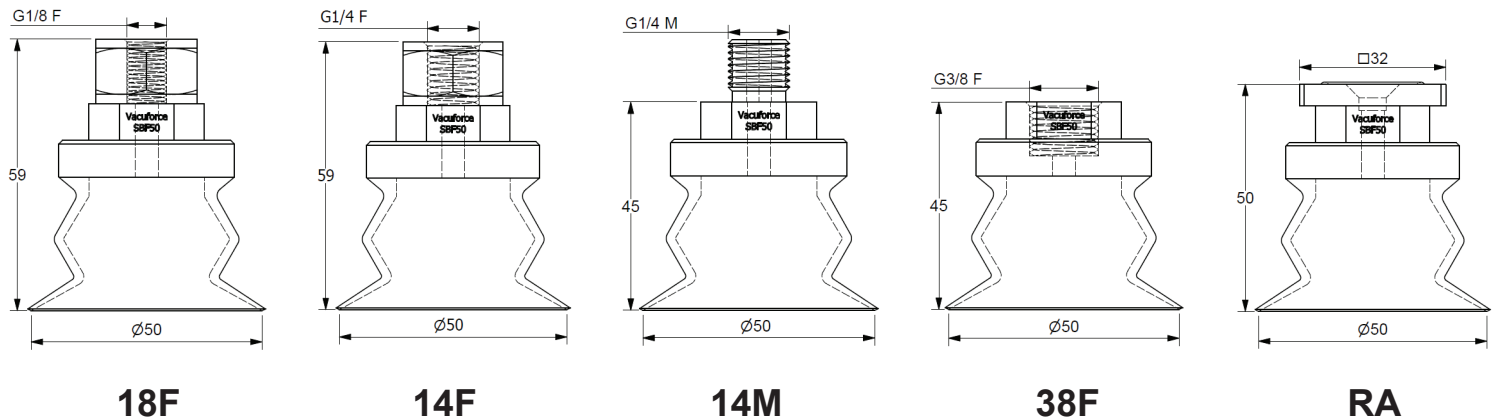
- 50mm Diameter single bellows cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Non-marking polyurethane compound
- Various machinery connection options



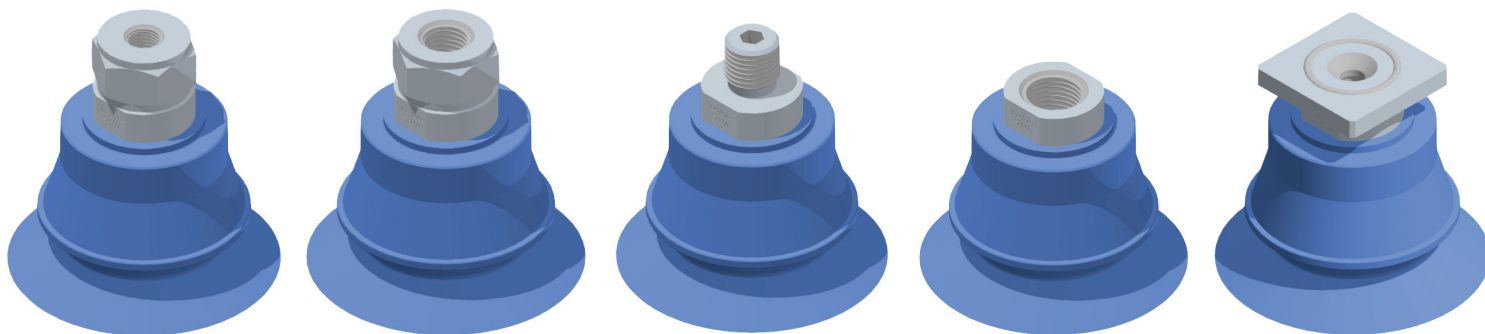
SBF		50		PU		18F	
Series		Model	Diameter	Cup Material		Fitting Thread	
		50	50	PU	Polyurethane	18F	G1/8F
						14F	G1/4F
						14M	G1/4M
						38F	G3/8F
						RA	Quick Connector

For cup material data please refer to vacuforce.com/materials
 Part number example SBF50-PU-38F - 50mm diameter polyurethane vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



- 60mm Diameter single bellows cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Non-marking polyurethane compound
- Various machinery connection options

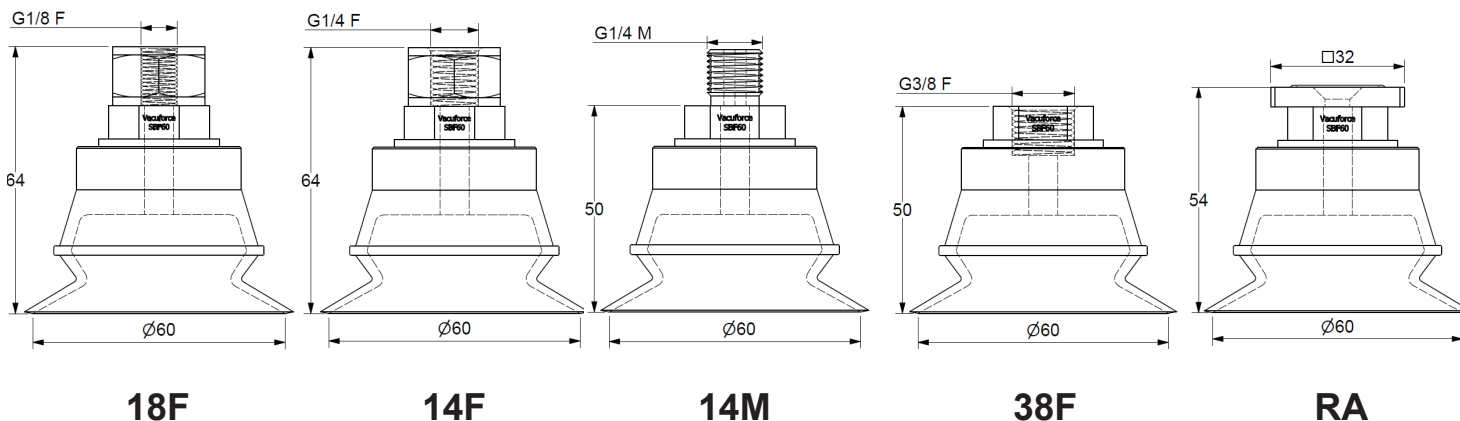


SBF		60		PU		18F	
Series		Model	Diameter	Cup Material		Fitting Thread	
		60	60	PU	Polyurethane	18F	G1/8F
						14F	G1/4F
						14M	G1/4M
						38F	G3/8F
						RA	Quick Connector

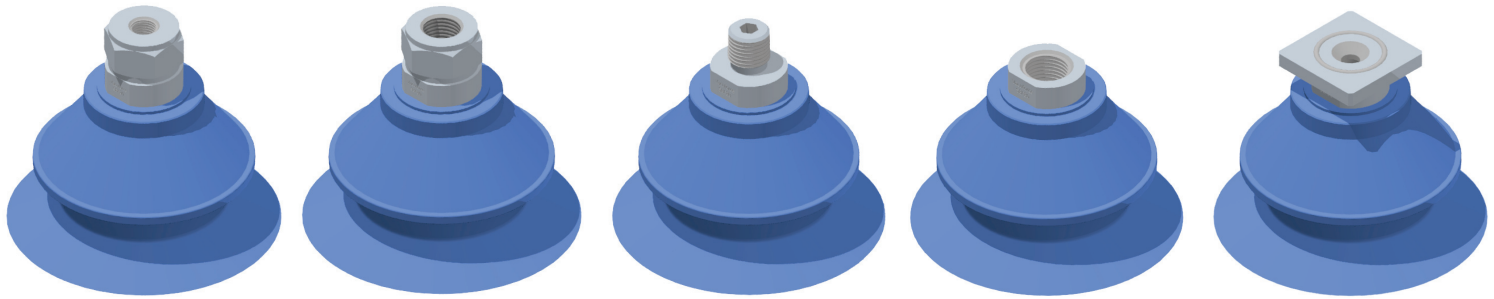
For cup material data please refer to vacuforce.com/materials

Part number example SBF60-PU-38F - 60mm diameter polyurethane vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



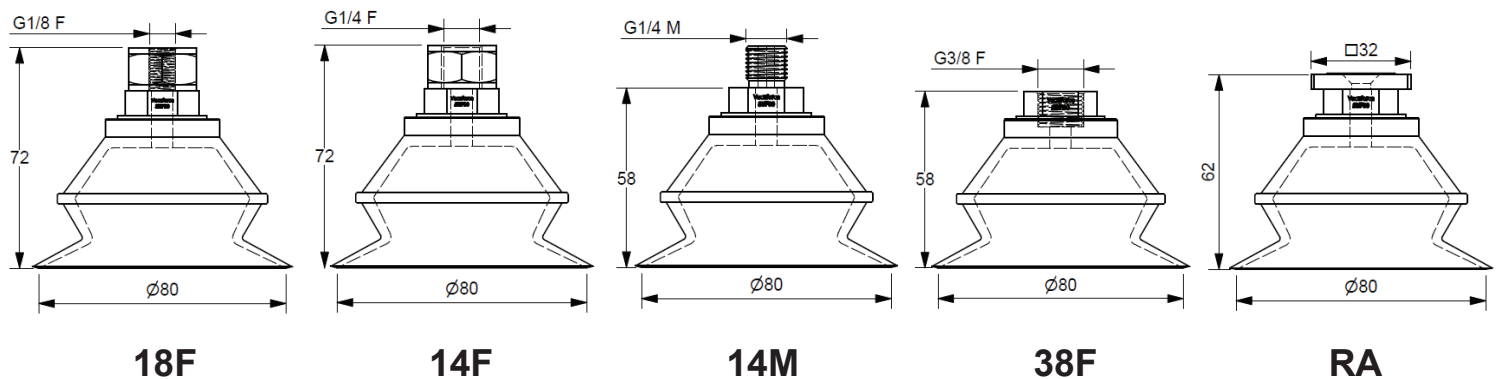
- 80mm Diameter single bellows cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Non-marking polyurethane compound
- Various machinery connection options



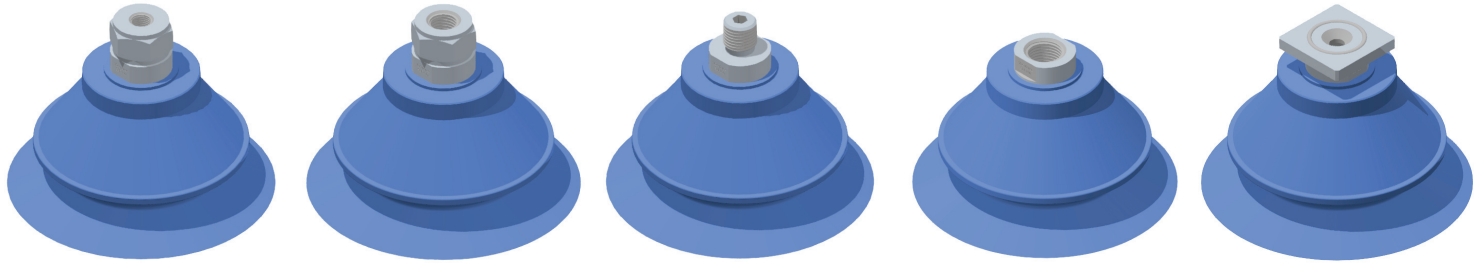
SBF		80		PU		18F	
Series		Model	Diameter	Cup Material		Fitting Thread	
		80	80	PU	Polyurethane	18F	G1/8F
						14F	G1/4F
						14M	G1/4M
						38F	G3/8F
						RA	Quick Connector

For cup material data please refer to vacuforce.com/materials
 Part number example SBF80-PU-38F - 80mm diameter polyurethane vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



- 100mm Diameter single bellows cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Non-marking polyurethane compound
- Various machinery connection options

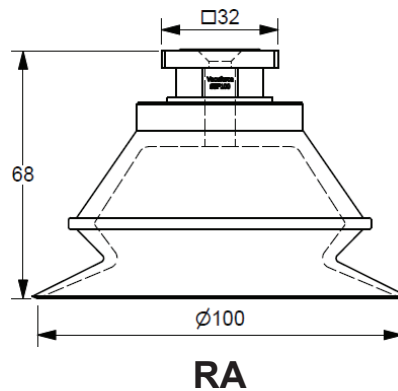
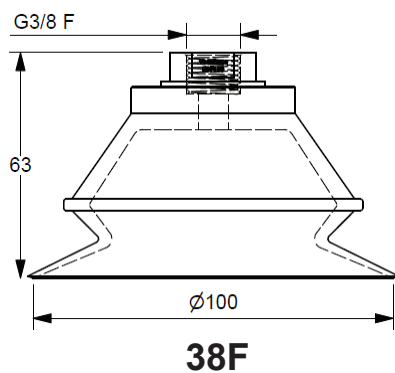
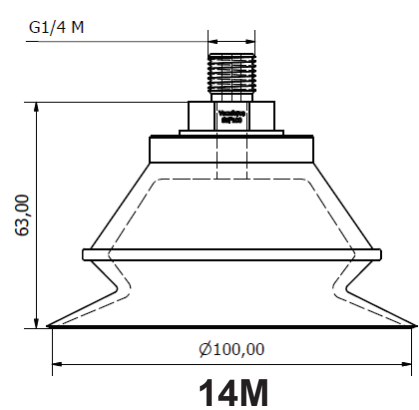
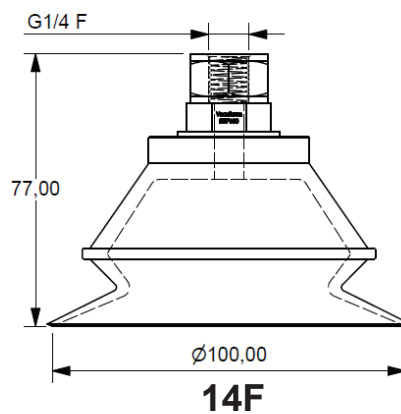
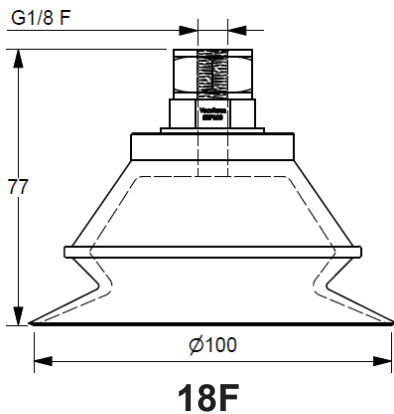


SBF		100		PU		18F	
Series		Model	Diameter	Cup Material		Fitting Thread	
		100	100	PU	Polyurethane	18F	G1/8F
						14F	G1/4F
						14M	G1/4M
						38F	G3/8F
						RA	Quick Connector

For cup material data please refer to vacuforce.com/materials

Part number example SBF100-PU-38F - 100mm diameter polyurethane vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



SOB OVAL BELLOWS CUP



The SOB series of vacuum cups are designed to offer the vacuum user a cup that can pick up on narrow surfaces and adapt to products such as formed sheet steel.

The cups include an aluminum male or female threaded fitting for machinery and vacuum source connection.

This cup is available in Nitrile rubber in both 45 and 60 Durometer. Ideal for handling pressed steel sheet and glass products.

The single bellows design offers slight vertical movement when vacuum is applied independent of the machinery aiding sheet separation and also compliance on concave and convex surfaces.



SOB		30X60N		60		G3/8F	
Series		Model		Durometer		Thread	
		30X60N	30 x 60	60		G1/4F	
		40X80N	40 x 80			G1/4M	
		55X110N	55 x 110			G3/8F	
		70X140N	70 x 140			3/8NPSF	
						M10M	
						M14M	

Part number example SOB30X60N-60-G3/8F

30mm x 60mm Oval Bellows Cup 60 Durometer with a

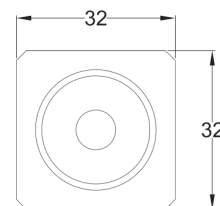
Part number example SOB30X60N-60-G3/8F
30mm x 60mm Oval Bellows Cup 60 Durometer with a G3/8 female threaded fitting.

LEVEL COMPENSATORS

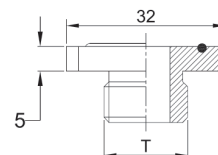
Refer to page 1.33 for suitable level compensators for this vacuum cup range.



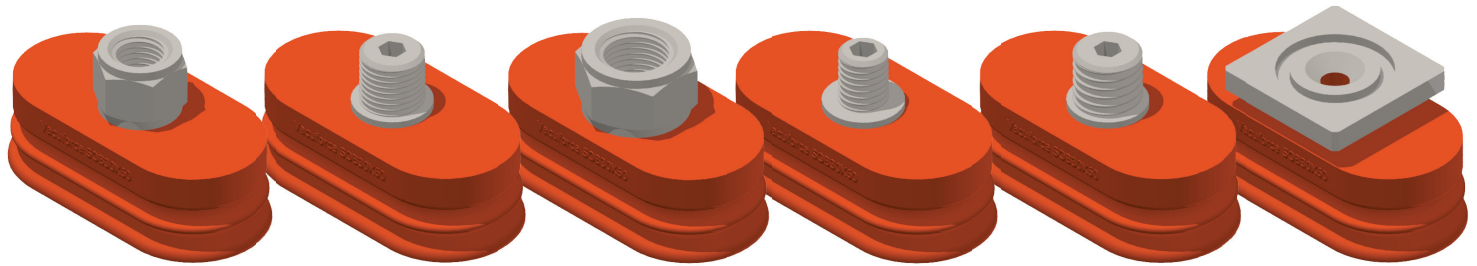
QUICK RELEASE FITTINGS



Model	T
QRG38	G3/8
QRN38	3/8NPSF



- 30mm x 60mm single bellows oval cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options

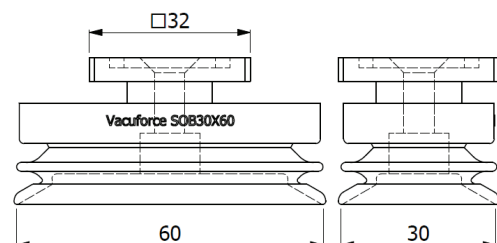
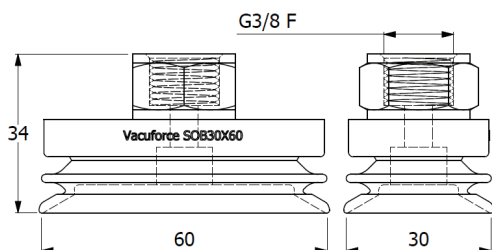
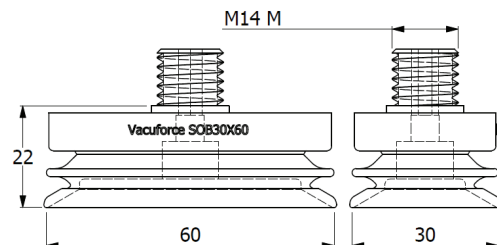
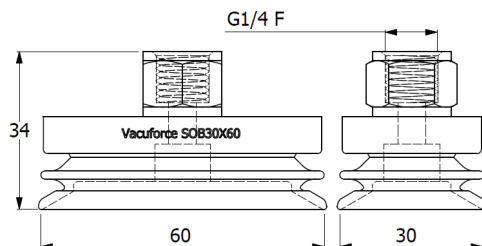
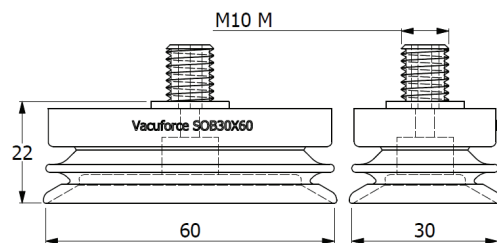
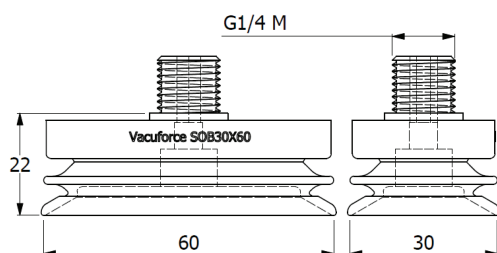


Series	Model	L x W (mm)	Durometer	Thread
SOB	30X60N	30 x 60	60	G1/4F
				G1/4M
				G3/8F
				M10M
				M14M
				RA

Part number example SOB30X60N-60-G3/8F
30mm x 60mm single bellows oval cup in 60 durometer NBR with G3/8 female thread connection port.

For cup material data please refer to vacuforce.com/materials

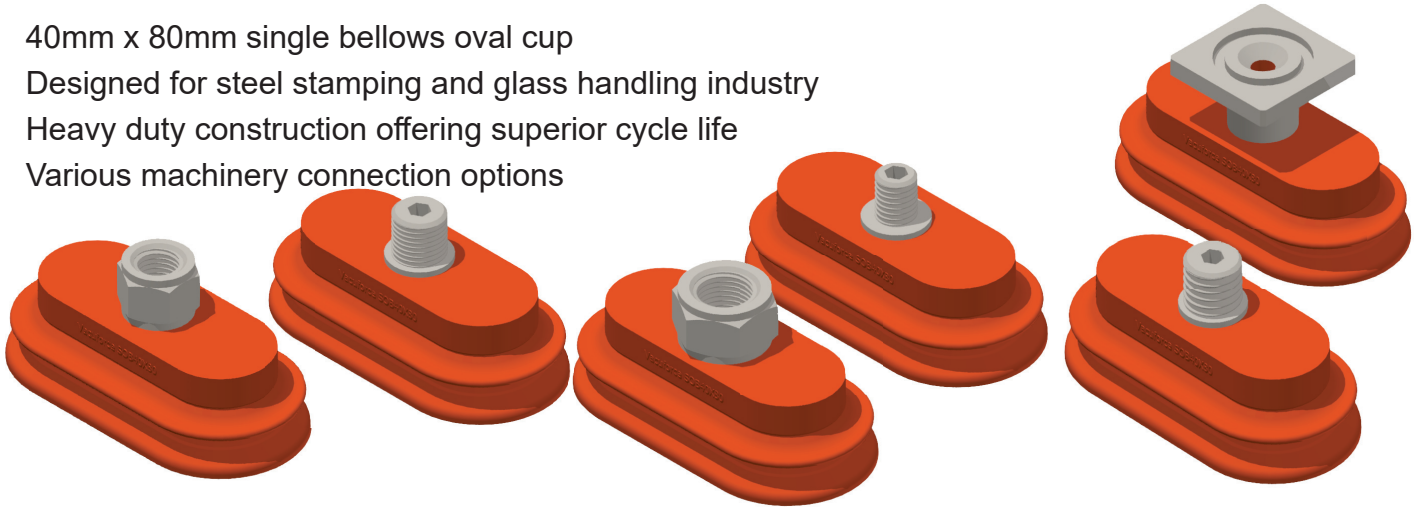
DIMENSIONS (mm)



SOB40X80 OVAL BELLOWS CUP



- 40mm x 80mm single bellows oval cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options



SOB	40X80N	60	G3/8F	
Series	Model	L x W (mm)	Durometer	Thread
	40X80N	40 x 80	60	G1/4F
				G1/4M
				G3/8F
				M10M
				M14M
				RA

Number example SOB40X80N-60-G3/8F

40 x 80mm single bellows oval cup in 60 durometer NBR

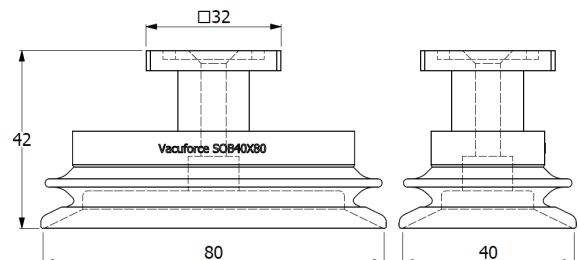
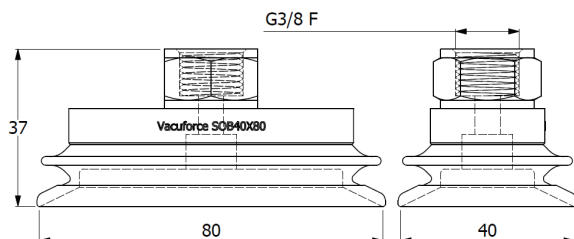
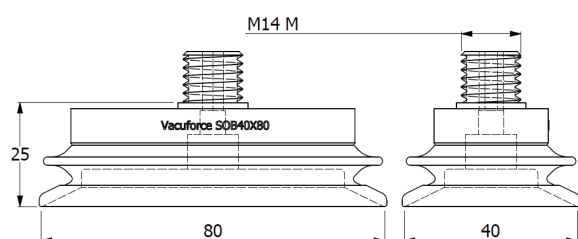
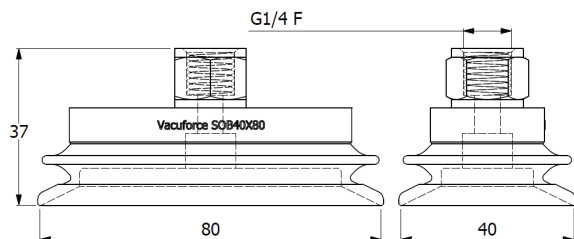
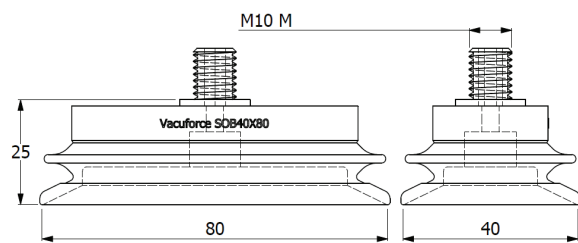
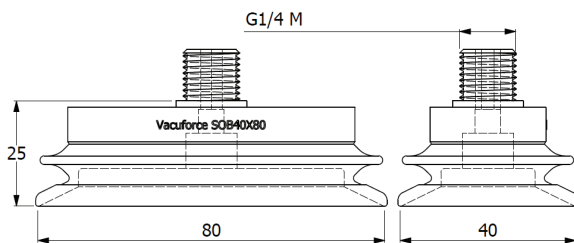
3/8 female thread connection port.

For material data please refer to vacuforce.com/materials

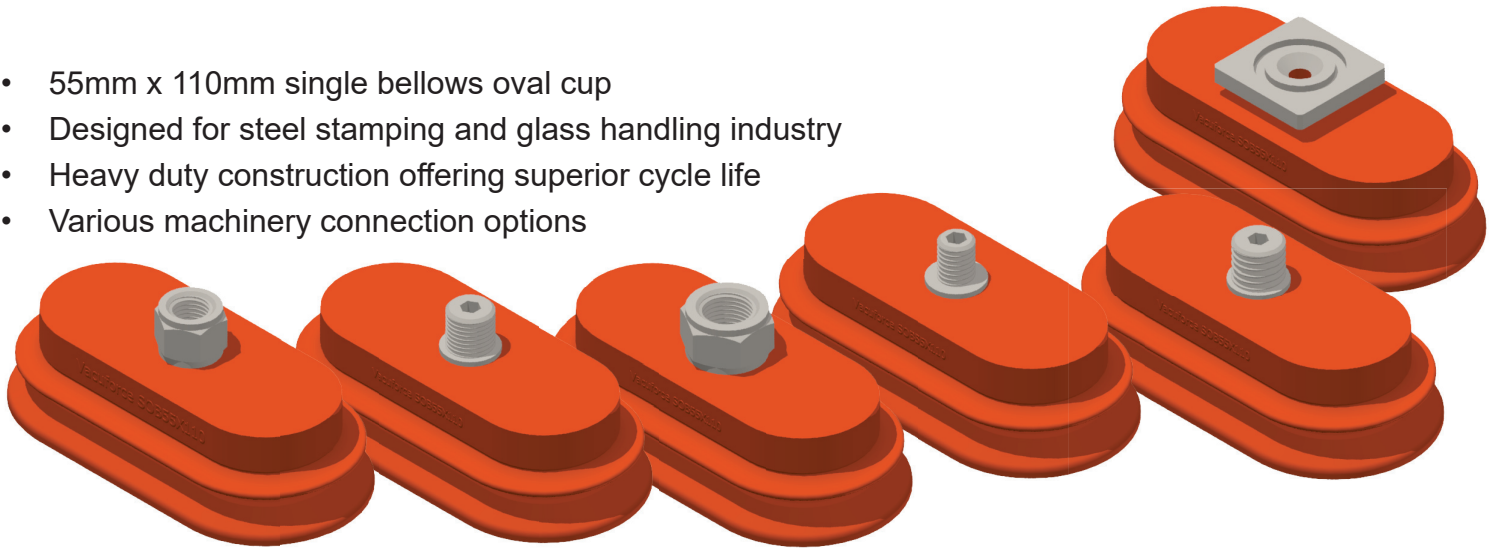
Part number example SOB40X80N-60-G3/8F
40mm x 80mm single bellows oval cup in 60 durometer NBR with G3/8 female thread connection port.

For cup material data please refer to vacuforce.com/materials

DIMENSIONS (mm)



- 55mm x 110mm single bellows oval cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options

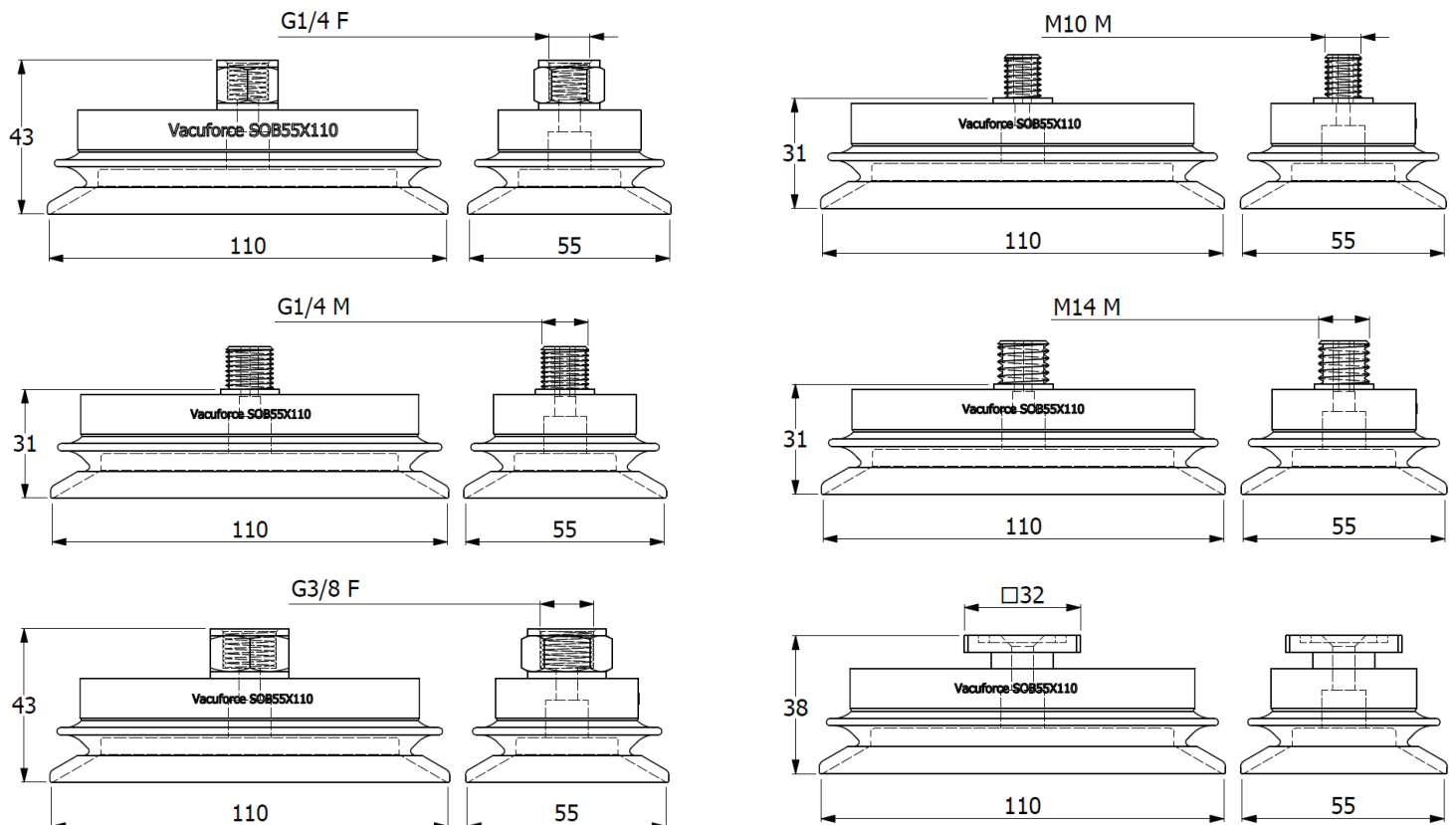


Series	Model	L x W (mm)	Durometer	Thread
SOB	55X110N	55 x 110	60	G1/4F
				G1/4M
				G3/8F
				M10M
				M14M
				RA

Part number example SOB55X110N-60-G3/8F
55mm x 110mm single bellows oval cup in 60 durometer NBR
with G3/8 female thread connection port.

For cup material data please refer to vacuforce.com/materials

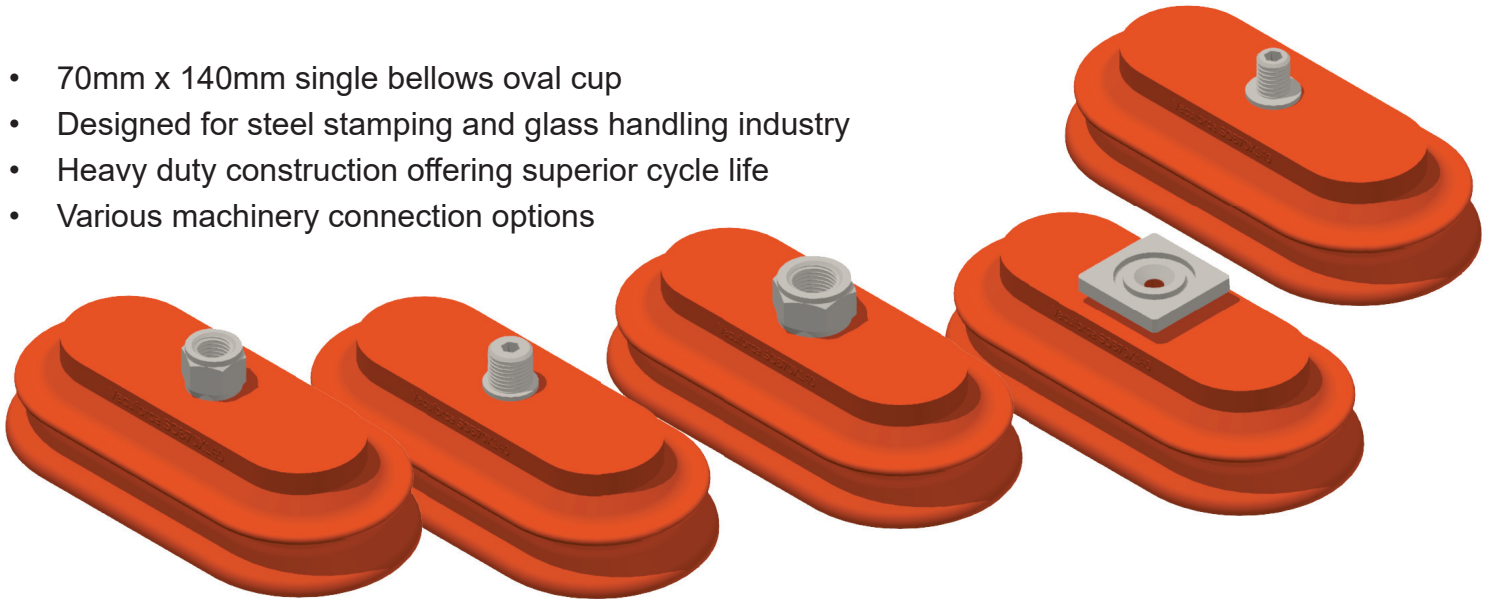
DIMENSIONS (mm)



SOB70X140 OVAL BELLOWS CUP



- 70mm x 140mm single bellows oval cup
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options

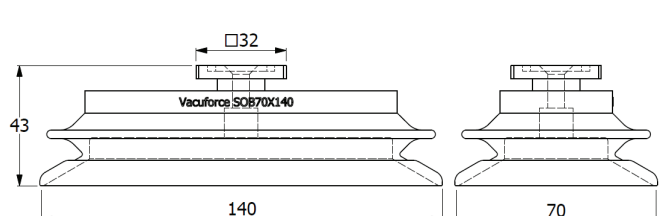
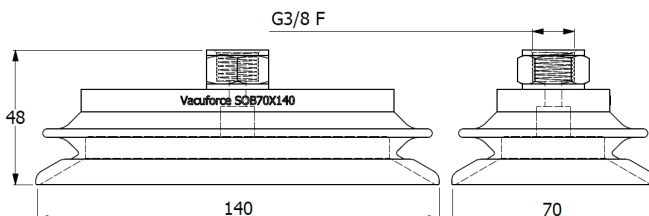
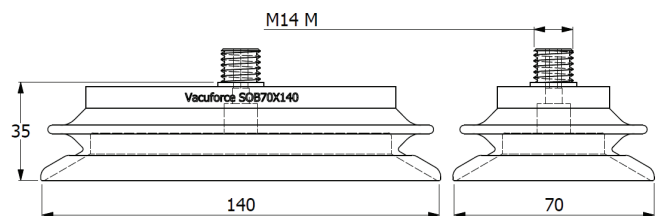
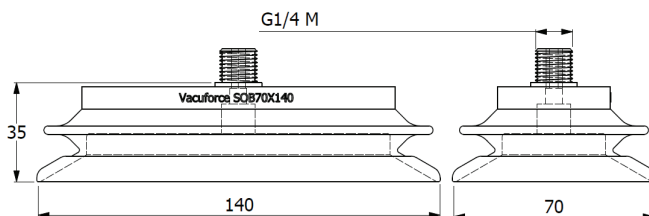
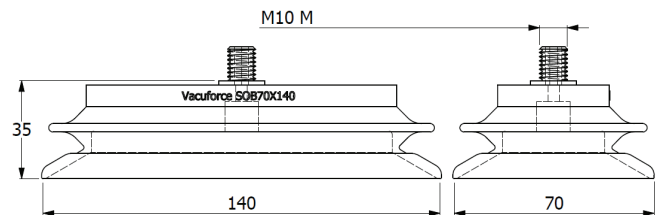
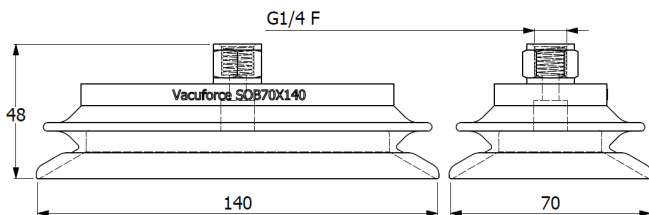


Series	Model	L x W (mm)	Durometer	Thread
SOB	70X140N	70 x 140	60	G1/4F
				G1/4M
				G3/8F
				M10M
				M14M
				RA

Part number example SOB70X140N-60-G3/8F
70mm x 140mm single bellows oval cup in 60 durometer NBR
with G3/8 female thread connection port.

For cup material data please refer to vacuforce.com/materials

DIMENSIONS (mm)



- Egg handling vacuum cups
- Available in FDA silicone as standard
- Multiple bellows offers vacuum lift independent of machine movement



EHC

3475

N

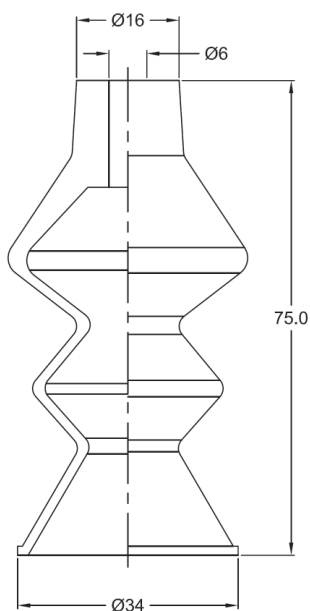
Series	Model	Diameter
	3475	34
	3566	35
	3776	37

Cup Material	
N	NBR Black 50 Durometer
S	Silicone White 30 Durometer
SBLK	Silicone Black 50 Durometer
SR	Silicone Red 50 Durometer
SBLU	Silicone Blue 50 Durometer

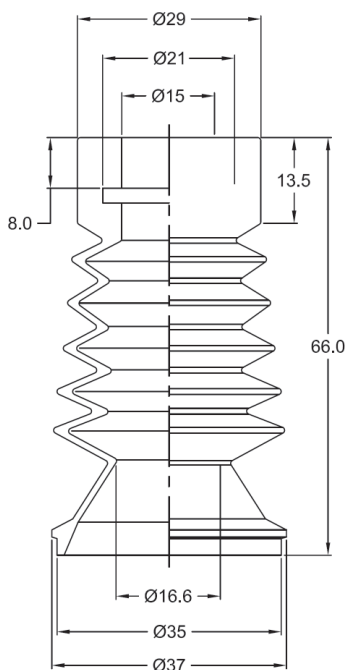
Part number example EHC3475N
34mm Egg Handling Cup in NBR

*Note - #3566 only available in Blue Silicone
#3766 only available in Red Silicone*

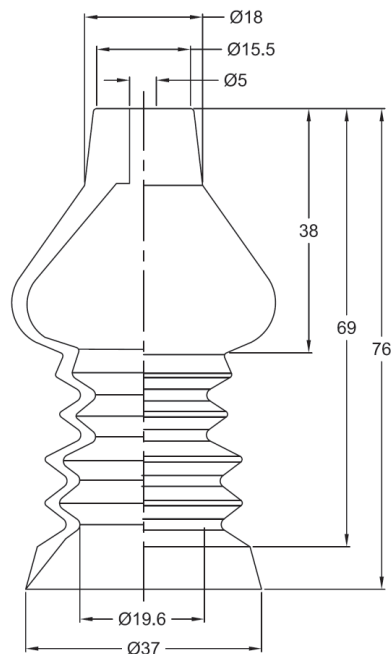
DIMENSIONS (mm)



Model 3475



Model 3566



Model 3776

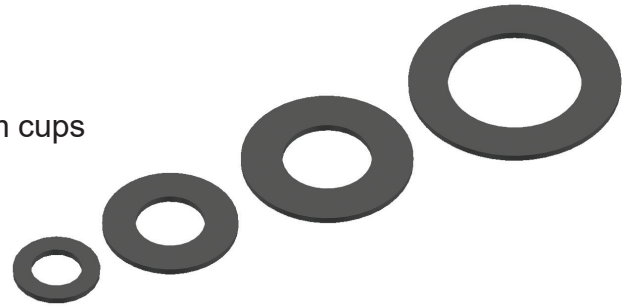


This cup series is available in metal detectable FDA compliant silicone.

For red colored metal detectable silicone use material code SMI.

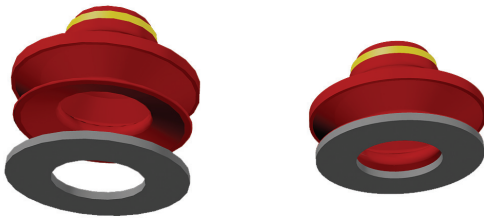
For white translucent metal detectable silicone use material code STMI.

- Foam seal lips for VFB series vacuum cups
- Used for handling rough or embossed surfaces
- Self adhesive seal bonds to base of VFB series vacuum cups



FCR	30	S
Series	Model	Suitable for Cup Model
	20	VFB20
	30	VFB30-2
	40	VFB40
	50	VFB50-2
Seal Material		
N		NBR
S		Silicone

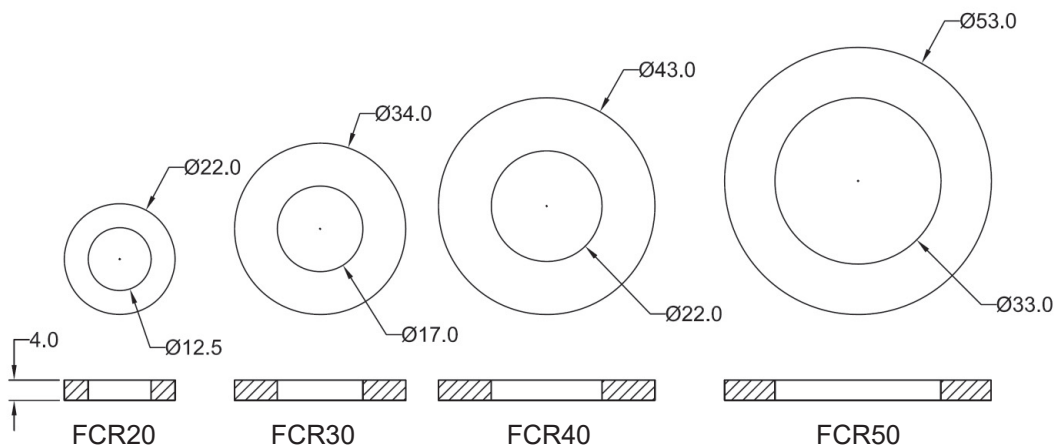
ASSEMBLY



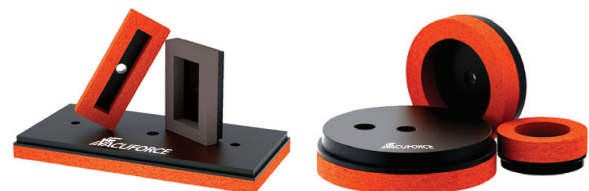
Ensure that the vacuum cup is free from dirt and grease on the sealing lip and is in good overall condition. Remove the self adhesive seal from the foam ring and place on a flat surface with sticky face upwards.

Place cup centrally over foam ring and press against the foam ring squarely and firmly for 1-2 seconds.

DIMENSIONS (mm)



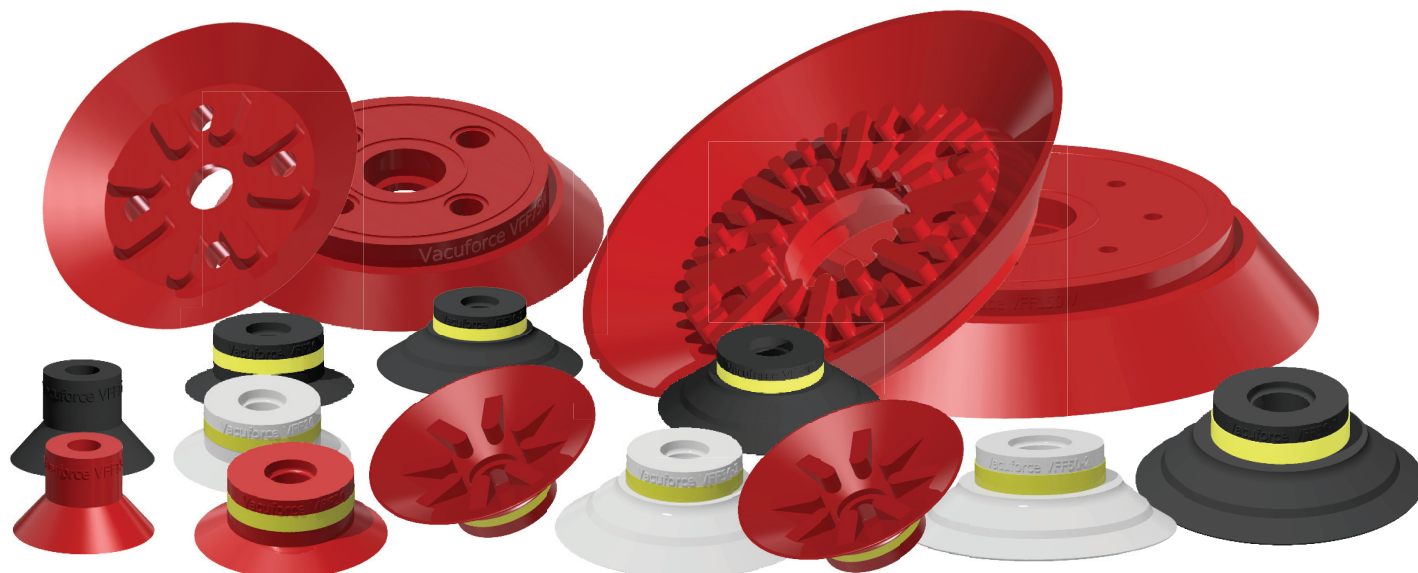
For larger foam cups please refer to pages 1.30 - 1.32



VFF FLAT CUPS



- Flat design vacuum cup
- Internal cleats for increased grip in lateral movement
- Good for shear movement and grip
- Available from 15mm to 150mm diameter
- NBR and FDA Silicone



VFF	40-2	N
Series	Model	Diameter
	15	15
	20	20
	30-2	30
	40-2	40
	50-2	50
	75W	75
	110W	110
	150W	150
Cup Material		
N	Nitrile	
S	Red Silicone	
ST	White Translucent Silicone	

For cup material data please refer to vacuforce.com/materials

Part number example VFF30-2S 30mm diameter flat vacuum cup in red silicone

LEVEL COMPENSATORS

Refer to page 1.33 for suitable level compensators for this vacuum cup range.



For cup fittings refer to page 1.86

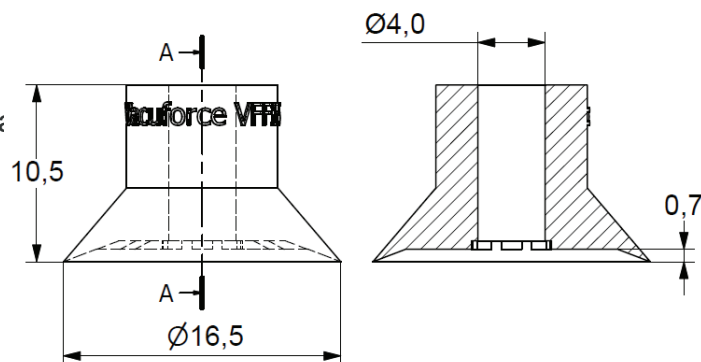
- 16mm Diameter (0.787") flat cup design
- Internal cleats for increased grip in lateral movement
- Good for shear movement and grip
- NBR and FDA Silicone materials



APPLICATIONS

- Small part pick and place
- Plastic and food packaging
- Direct food contact with silicone material

DIMENSIONS (mm)



VFF		15		S	
Series		Model	Diameter	Cup Material	
		15	16.5	N	Nitrile
				S	Red Silicone

Cup Fittings	
Use Fitting Type	B

For cup material data please refer to vacuforce.com/materials

Part number example VFF15S
16.5mm diameter flat vacuum cup in red silicone

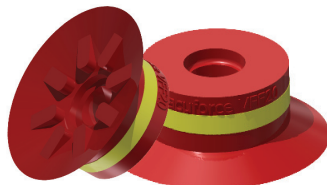
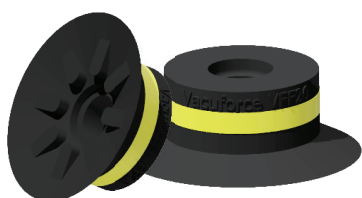


For cup fittings
refer to page 1.86

VFF20 FLAT VACUUM CUP



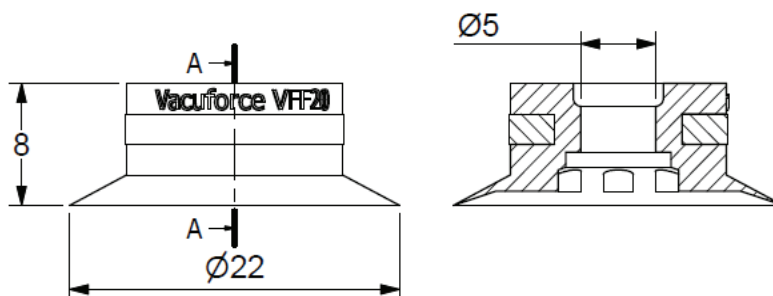
- 22mm Diameter (0.866") flat cup design
- Internal cleats for increased grip in lateral movement
- Good for shear movement and grip
- NBR and FDA Silicone materials



APPLICATIONS

- Small part pick and place
- Plastic and food packaging
- Direct food contact with silicone materials

DIMENSIONS (mm)

**VFF****20****S**

Series	Model	Diameter
	20	22

Cup Material	
N	Nitrile
S	Red Silicone
ST	White Translucent Silicone

Cup Fittings	
Use Fitting Type	C

For cup material data please refer to vacuforce.com/materials

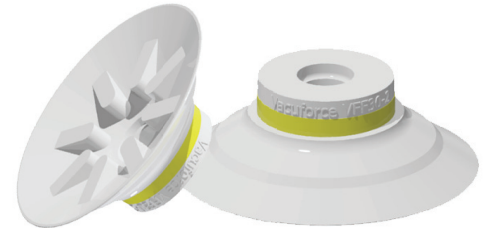
Part number example VFF20S

22mm diameter flat vacuum cup in red silicone



For cup fittings
refer to page 1.86

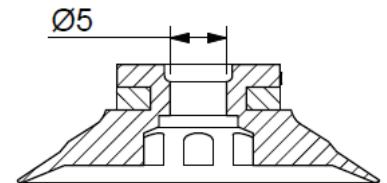
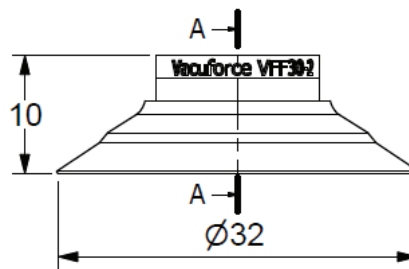
- 32mm Diameter (1.26") flat cup design
- Internal cleats for increased grip in lateral movement
- Good for shear movement and grip
- NBR and FDA Silicone materials



APPLICATIONS

- Small part pick and place
- Plastic and food packaging
- Direct food contact with silicone materials

DIMENSIONS (mm)



VFF		30-2		S	
Series		Model	Diameter	Cup Material	
		30	32	N	Nitrile
				S	Red Silicone
				ST	White Translucent Silicone

Cup Fittings	
Use Fitting Type	C

For cup material data please refer to vacuforce.com/materials

Part number example VFF30-2S
32mm diameter flat vacuum cup in red silicone

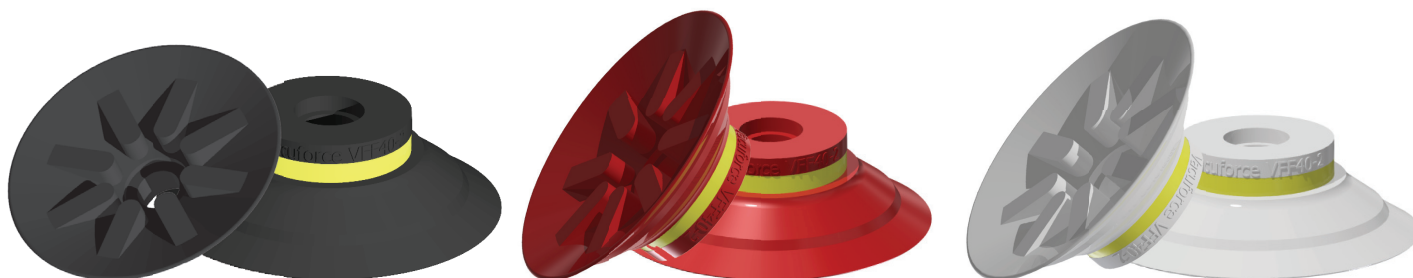


For cup fittings
refer to page 1.86

VFF40-2 FLAT VACUUM CUP



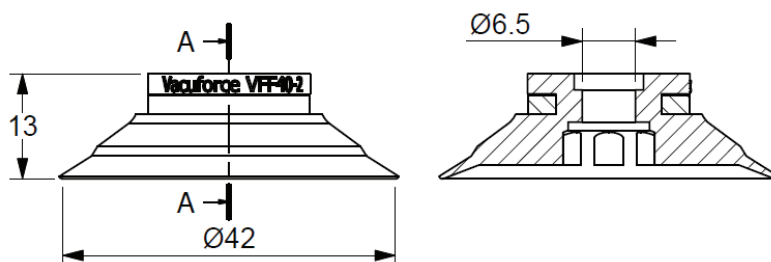
- 42mm Diameter (1.65") flat cup design
- Internal cleats for increased grip in lateral movement
- Good for shear movement and grip
- NBR and FDA Silicone materials



APPLICATIONS

- Small part pick and place
- Plastic and food packaging
- Direct food contact with silicone materials

DIMENSIONS (mm)

**VFF****40-2****S**

Series	Model	Diameter
	40-2	42

Cup Material	
N	Nitrile
S	Red Silicone
ST	White Translucent Silicone

Cup Fittings	
Use Fitting Type	D

For cup material data please refer to vacuforce.com/materials

Part number example VFF40-2S

42mm diameter flat vacuum cup in red silicone



For cup fittings
refer to page 1.86

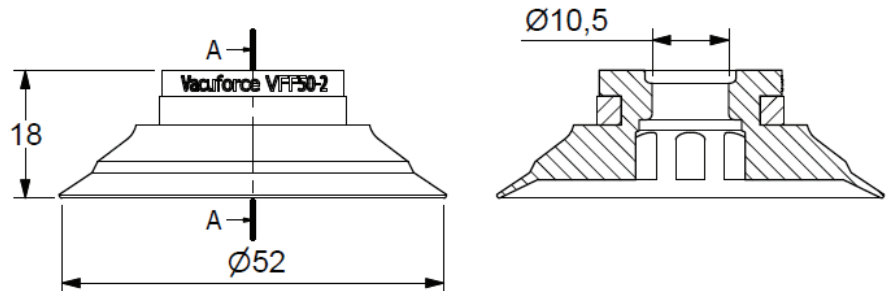
- 52mm Diameter (2.05") flat cup design
- Internal cleats for increased grip in lateral movement
- Good for shear movement and grip
- NBR and FDA Silicone materials



APPLICATIONS

- Small part pick and place
- Plastic and food packaging
- Direct food contact with silicone materials

DIMENSIONS (mm)



VFF		50-2		S	
Series		Model	Diameter	Cup Material	
		50	52	N	Nitrile
				S	Red Silicone
				ST	White Translucent Silicone

Cup Fittings	
Use Fitting Type	E

For cup material data please refer to vacuforce.com/materials

Part number example VFF50-2S
52mm diameter flat vacuum cup in red silicone

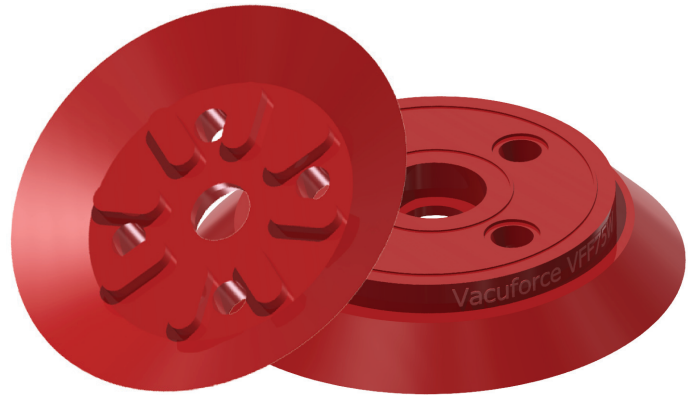


For cup fittings
refer to page 1.86

VFF75W FLAT VACUUM CUP



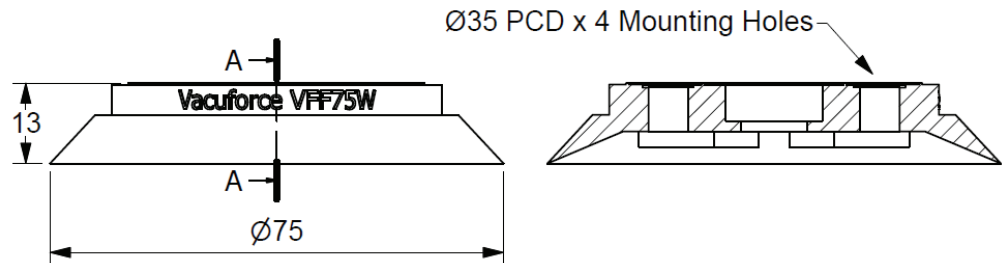
- 75mm Diameter (3") flat cup design
- Internal cleats for increased grip in lateral movement
- Ideal for high speed shear movement and grip
- NBR and FDA Silicone materials



APPLICATIONS

- Part pick and place
- Sheet metal and lumber handling
- High shear force pick and place

DIMENSIONS (mm)

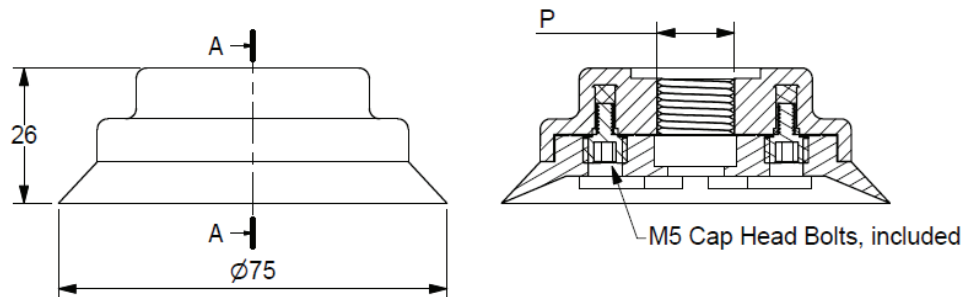


VFF	75W	S
Series	Model	Diameter
	75W	75
Cup Material		
N	Nitrile	
S	Red Silicone	

For cup material data please refer to vacuforce.com/materials

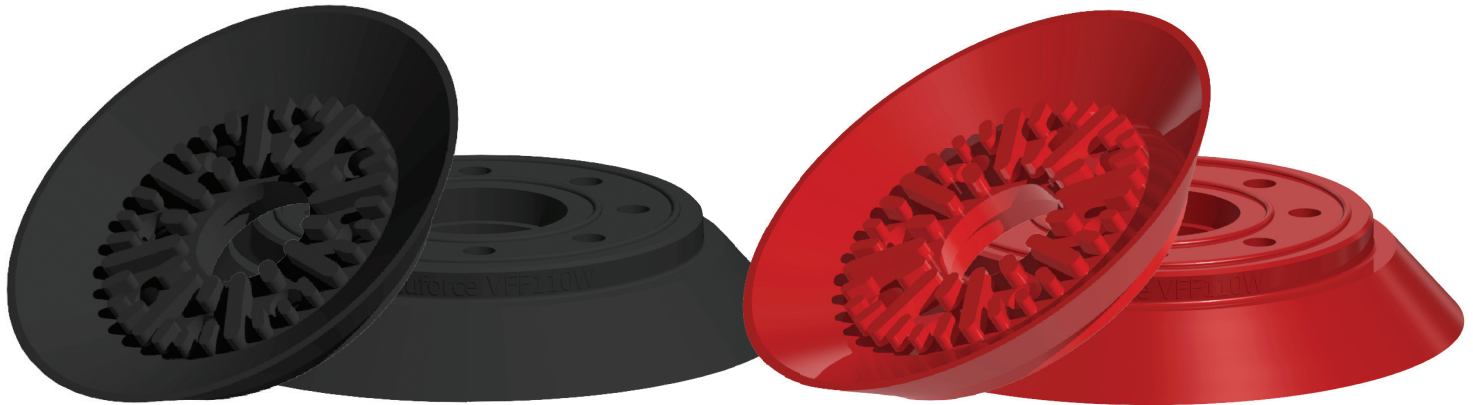
Part number example VFF75WS - 75mm diameter flat vacuum cup in red silicone

VFF75W Cup Fittings



Fitting Model	P (Vacuum Port)
VFCF75-1/8	G1/8
VFCF75-1/4	G1/4
VFCF75-3/8	G3/8

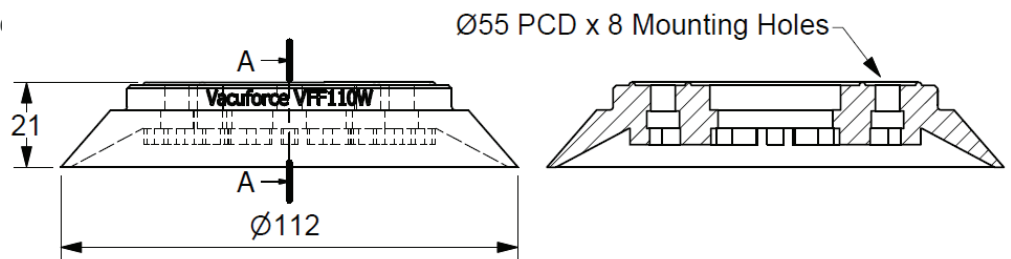
- 112mm Diameter (4.4") flat cup design
- Internal cleats for increased grip in lateral movement
- Ideal for high speed shear movement and grip
- NBR and FDA Silicone materials



APPLICATIONS

- Part pick and place
- Sheet metal and lumber handling
- High shear force pick and place

DIMENSIONS (mm)

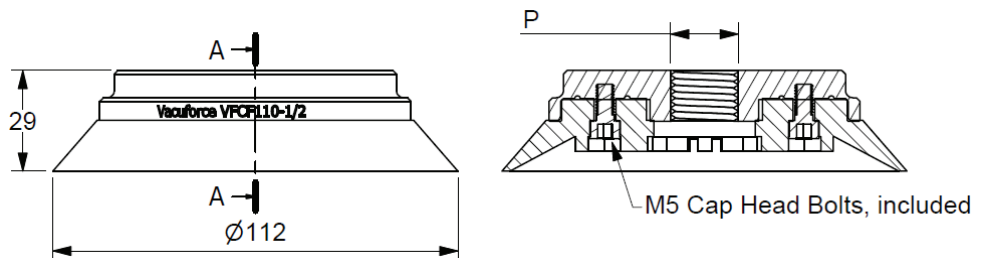


VFF	110W	S
Series	Model	Diameter
	110W	112
Cup Material		
N	Nitrile	
S	Red Silicone	

For cup material data please refer to vacuforce.com/materials

Part number example VFF110WS - 112mm diameter flat vacuum cup in red silicone

VFF110W Cup Fittings



Fitting Model	P (Vacuum Port)
VFCF110-3/8	G3/8
VFCF110-1/2	G1/2

VFF150W FLAT VACUUM CUP



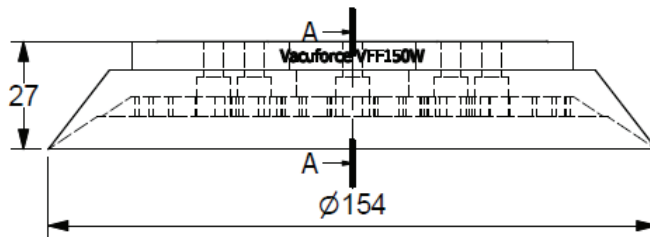
- 154mm Diameter (6.06") flat cup design
- Internal cleats for increased grip in lateral movement
- Ideal for high speed shear movement and grip
- NBR and FDA Silicone materials

APPLICATIONS

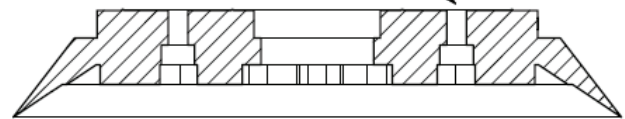
- Part pick and place
- Sheet metal and lumber handling
- High shear force pick and place



DIMENSIONS (mm)



Ø71.5PCD x 8 Mounting Holes

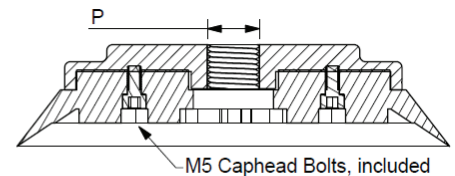
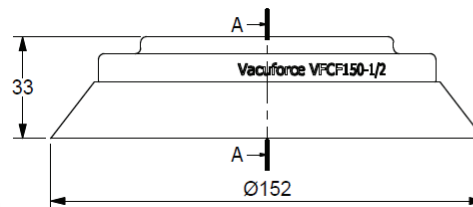


VFF		150W		S	
Series		Model	Diameter	Cup Material	
		150W	154	N	Nitrile
				S	Red Silicone

For cup material data please refer to vacuforce.com/materials

Part number example VFF150WS - 154mm diameter flat vacuum cup in red silicone

VFF150W Cup Fittings



M5 Caphead Bolts, included

Fitting Model	P (Vacuum Port)
VFCF150-1/2	G1/2

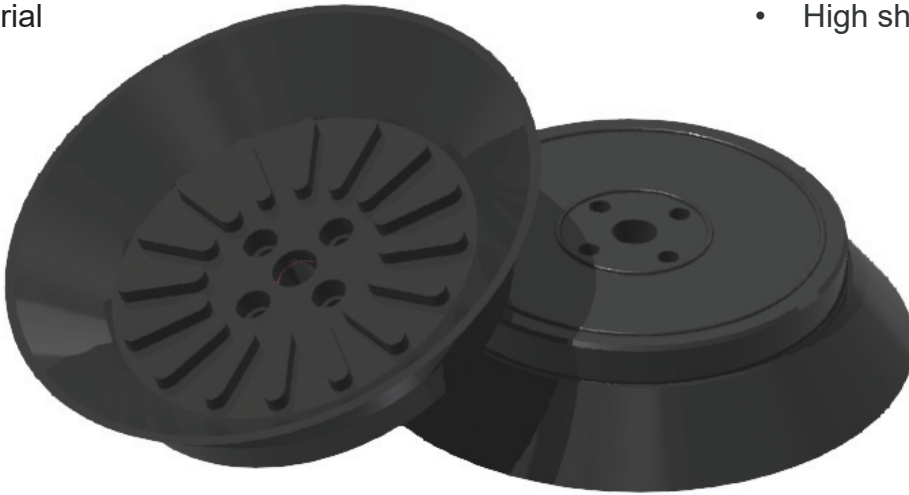
VFF200N FLAT VACUUM CUP



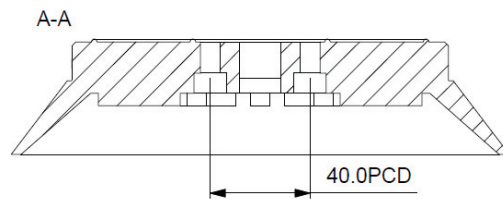
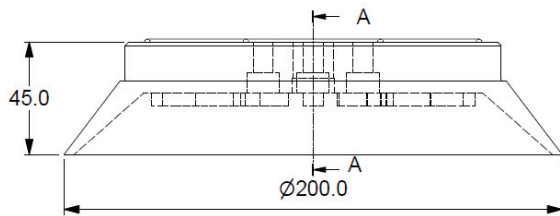
- 200mm Diameter (8") flat cup design
- Internal cleats for increased grip in lateral movement
- Ideal for high speed shear movement and grip
- NBR material

APPLICATIONS

- Part pick and place
- Sheet metal and lumber handling
- High shear force pick and place



DIMENSIONS (mm)

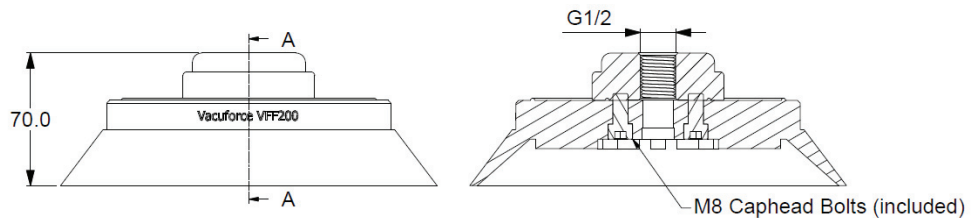


VFF		200		N	
Series	Model	Diameter	Cup Material		
	200	200	N	Nitrile	

For cup material data please refer to vacuforce.com/materials

Part number example VFF200N - 200mm diameter flat vacuum cup in NBR rubber

VFF200N Cup Fittings



Fitting Model	P (Vacuum Port)
VFCF200-1/2	G1/2

- Flat design vacuum cup
- Good for shear movement and grip
- Available from 2mm to 50mm diameter
- NBR and Silicone



PFG

Series

50

Model Diameter (mm)

2	2
3.5	3.5
5	5
6	6
8	8
20	20
25	25
30	30
35	35
40	40
50	50

NBR

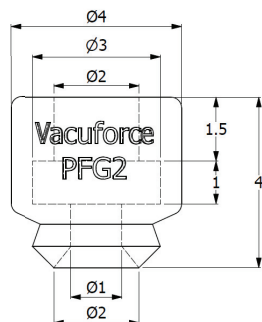
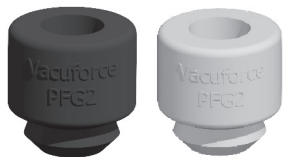
Cup Material

NBR	Nitrile
SI	White Silicone

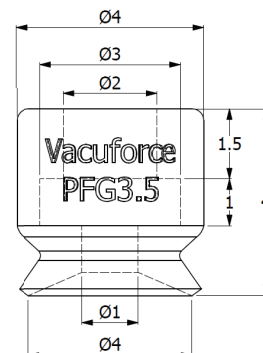
For cup material data please refer to vacuforce.com/materials

Part number example PFG-50-NBR 50mm diameter flat vacuum cup in NBR rubber.

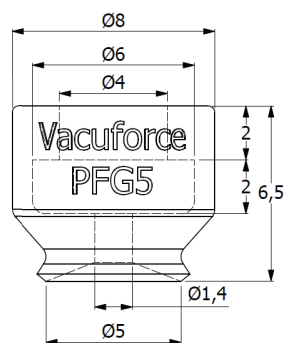
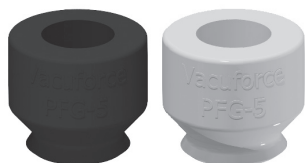
PFG-2-*



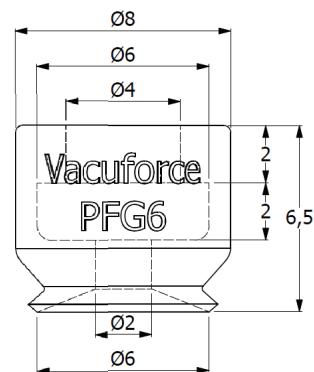
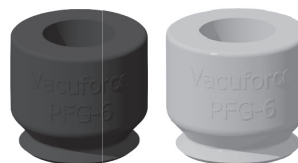
PFG-3.5-*



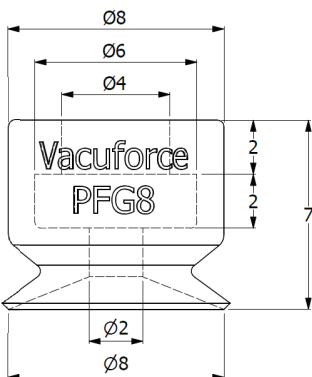
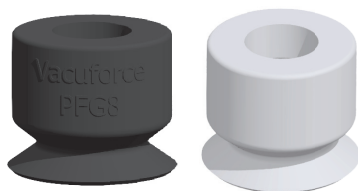
PFG-5-*



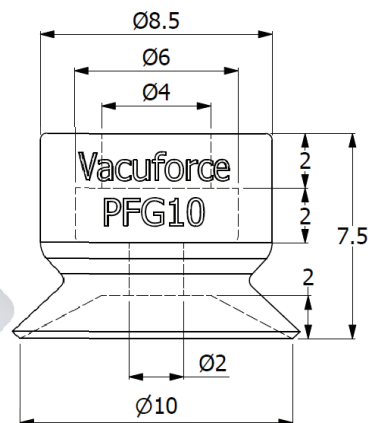
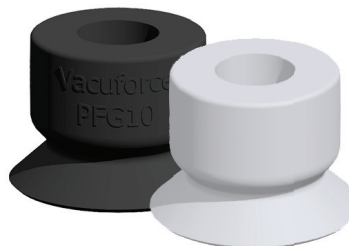
PFG-6-*



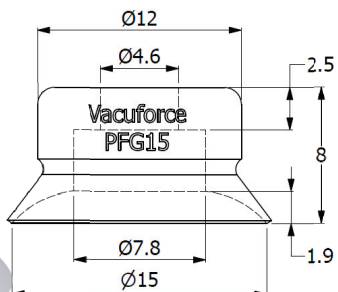
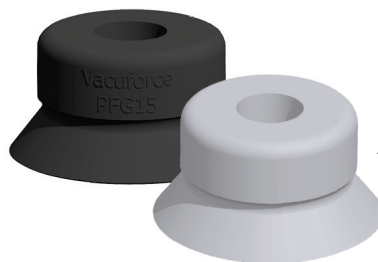
PFG-8-*



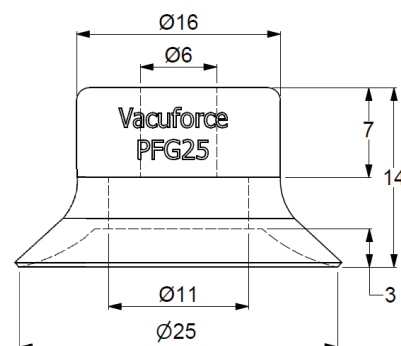
PFG-10-*



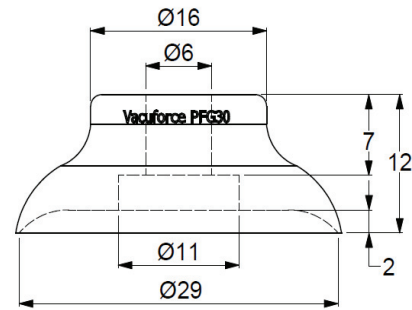
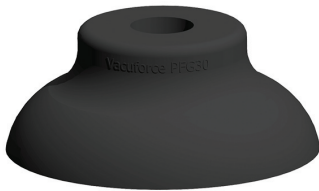
PFG-15-*



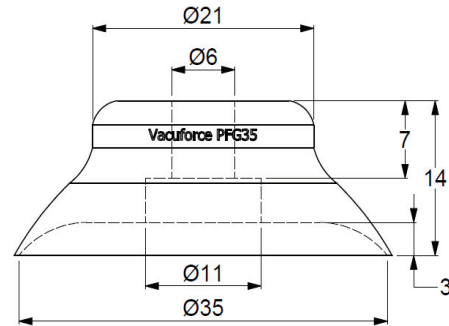
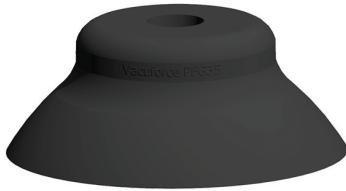
PFG-20-*



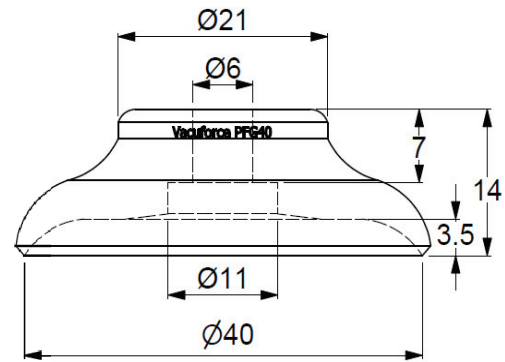
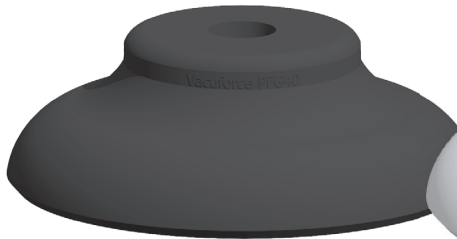
PFG-30-*



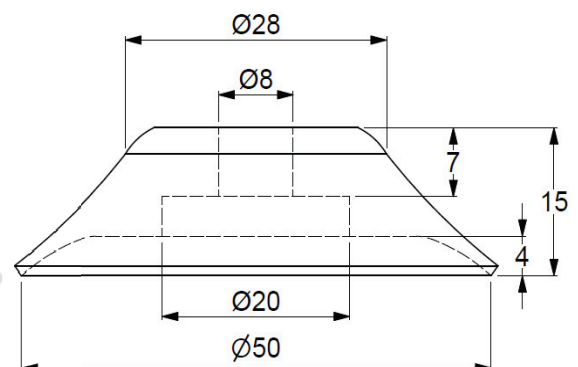
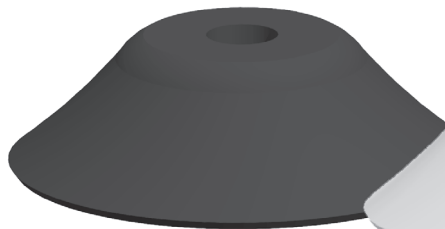
PFG-35-*



PFG-40-*



PFG-50-*



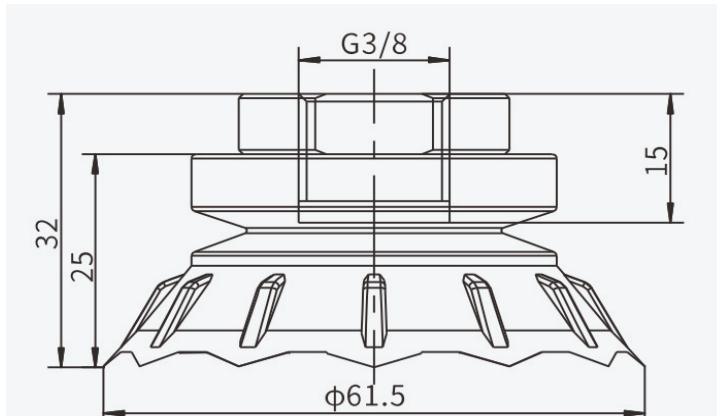
- Ultra thin 0.25mm thick pick up sealing lip
- 60mm Diameter
- Designed to seal against thin packaged products and bags
- Inner support ribs enable high speed transfer of products



APPLICATIONS

- Part pick and place
- Plastic wrapped food packaging
- Bags and sacks

DIMENSIONS (mm)



STP	60	S
Series	Model	Diameter
	60	60
		Cup Material
	S	Red Silicone

For cup material data please refer to vacuforce.com/materials

SFF FLAT CUPS



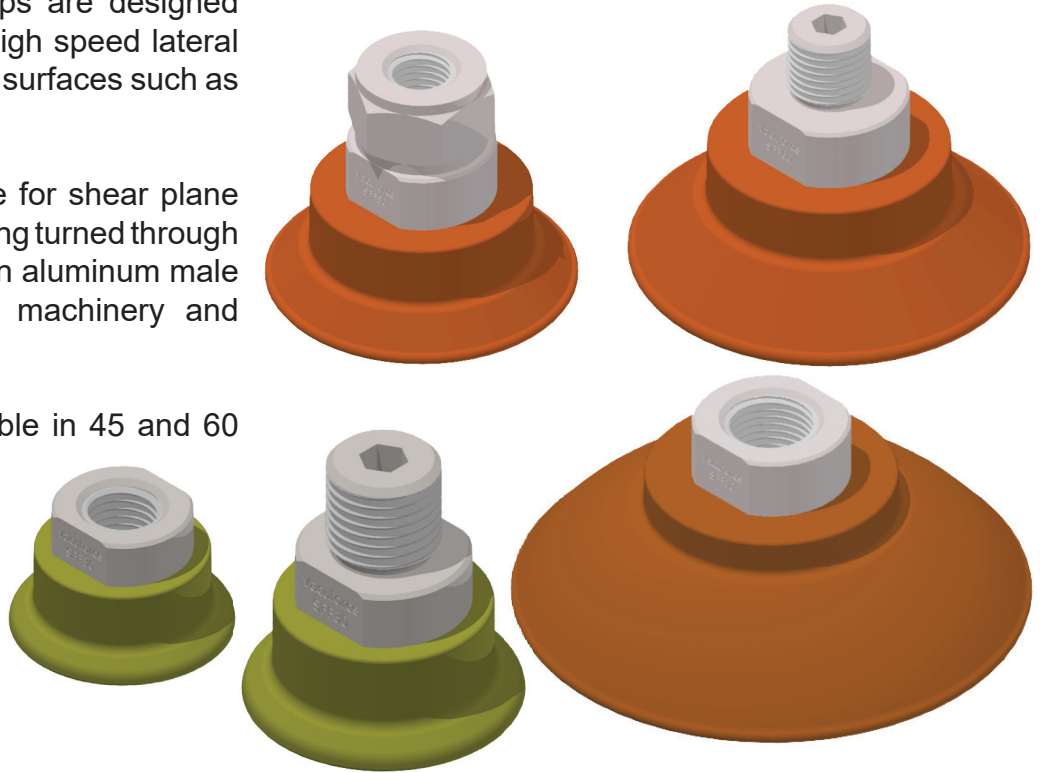
The SFF series of vacuum cups are designed to offer the vacuum user very high speed lateral transfer especially on wet or oily surfaces such as steel stamped parts.

The SFF cups are also suitable for shear plane applications where the part is being turned through 90 degrees. The cups include an aluminum male or female threaded fitting for machinery and vacuum source connection.

These vacuum cups are available in 45 and 60 Durometer NBR.

APPLICATIONS

- Automotive steel stamping
- Glass handling
- Plywood transfer
- Handling of oily steel surfaces
- Large box & carton handling



SFF	80	N	60	G3/8F
Series	Diameter (mm)	Material	Durometer	Thread
	30	N	45	G1/4F
	40		60	G1/4M
	50			G3/8F
	60			3/8NPSF
	80			M10M
	100			M14M
	125			

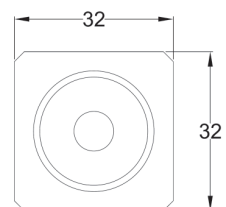
Part number example SFF80N-60-G3/8F
80mm diameter flat cup 60 Durometer NBR with G3/8 female thread

LEVEL COMPENSATORS

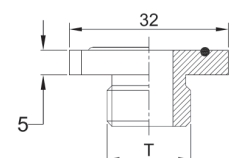
Refer to page 1.33 for suitable level compensators for this vacuum cup range.



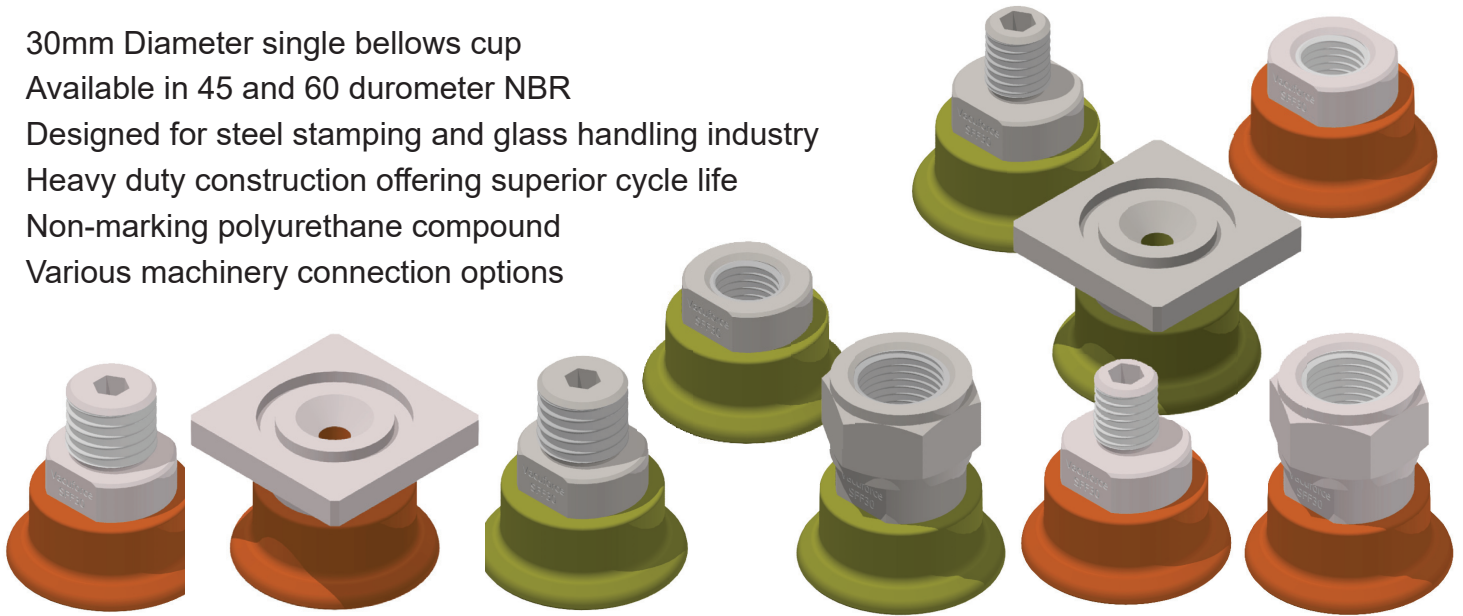
QUICK RELEASE FITTINGS



Model	T
QRG38	G3/8
QRN38	3/8NPSF



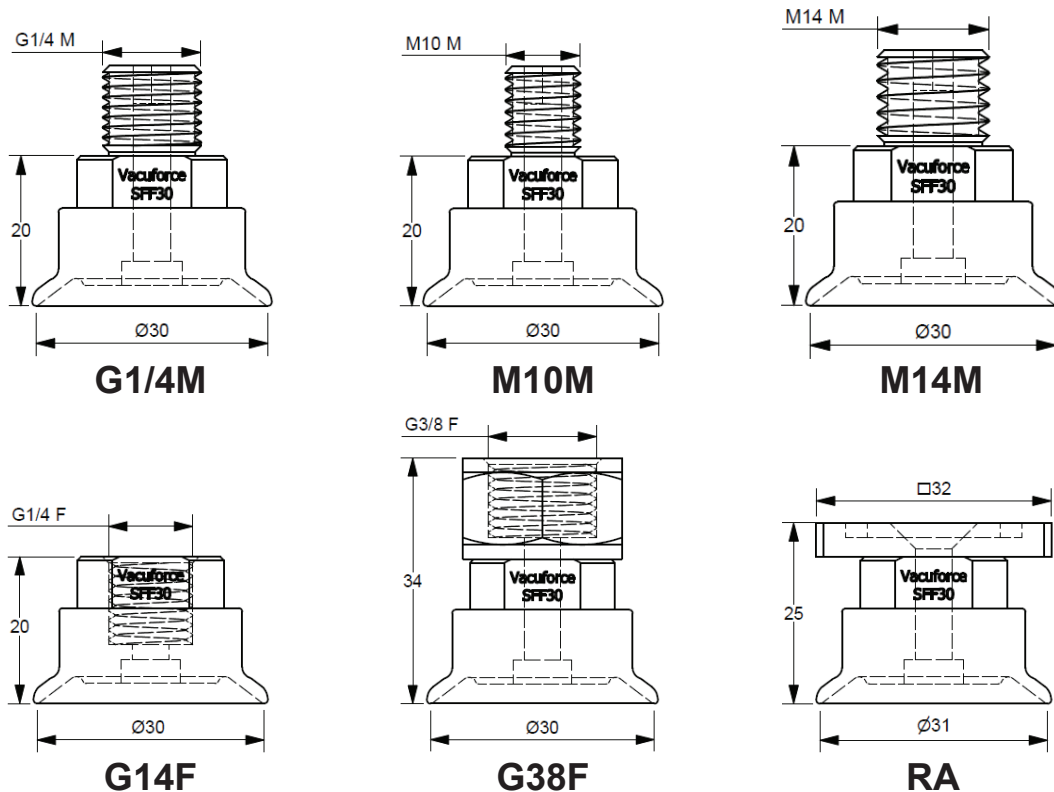
- 30mm Diameter single bellows cup
- Available in 45 and 60 durometer NBR
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Non-marking polyurethane compound
- Various machinery connection options



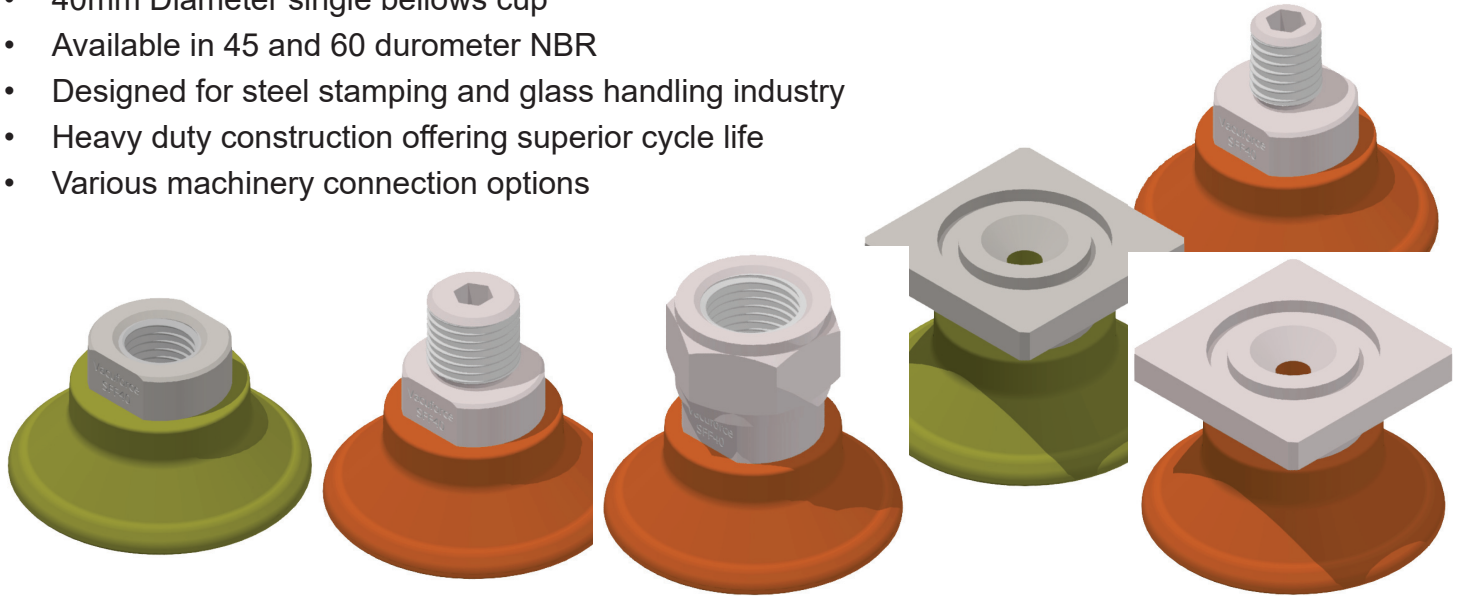
SFF	30	N	60	G3/8F
Series	Diameter (mm)	Material	Durometer	Thread
	30	N	45 (green)	G1/4F
			60 (orange)	G1/4M
				G3/8F
				M10M
				M14M
				RA

For cup material data please refer to vacuforce.com/materials
 Part number example SFF30N-60-G3/8F - 30mm diameter 60 durometer NBR rubber vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



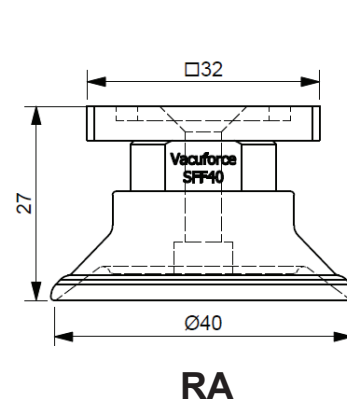
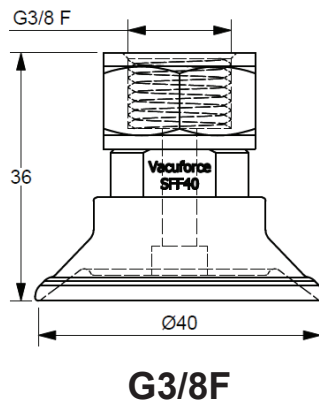
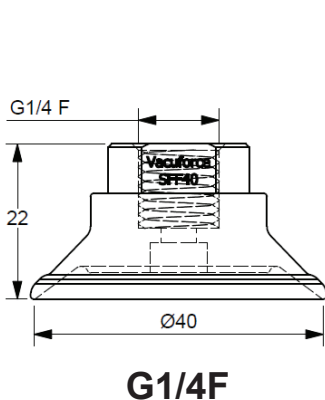
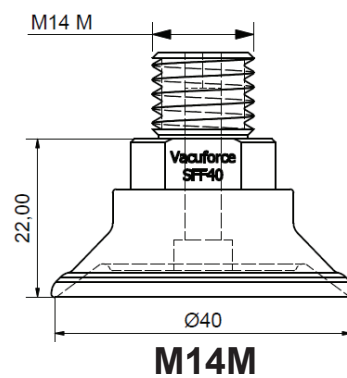
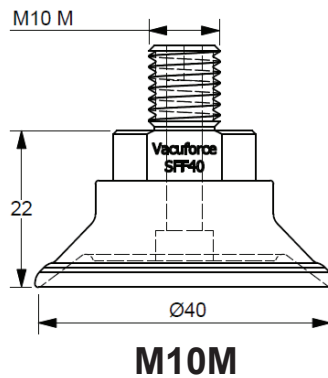
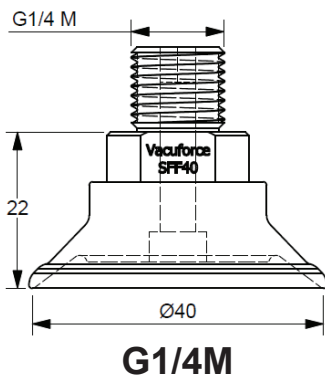
- 40mm Diameter single bellows cup
- Available in 45 and 60 durometer NBR
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options



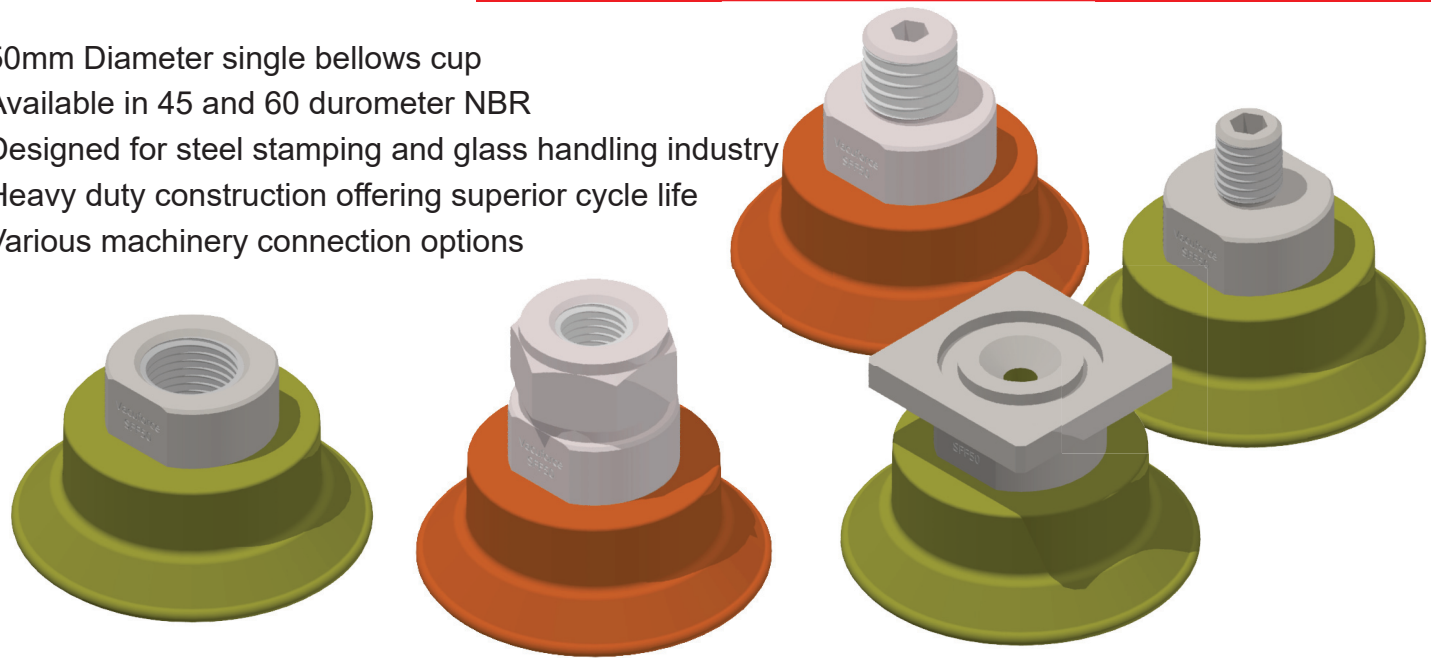
SFF	40	N	-	60	-	G3/8F
Series	Diameter (mm)	Material		Durometer		Thread
	40	N		45 (green)		G1/4F
		NBR		60 (orange)		G1/4M
						G3/8F
						M10M
						M14M
						RA

For cup material data please refer to vacuforce.com/materials
 Part number example SFF40N-60-G3/8F - 40mm diameter 60 durometer NBR rubber vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



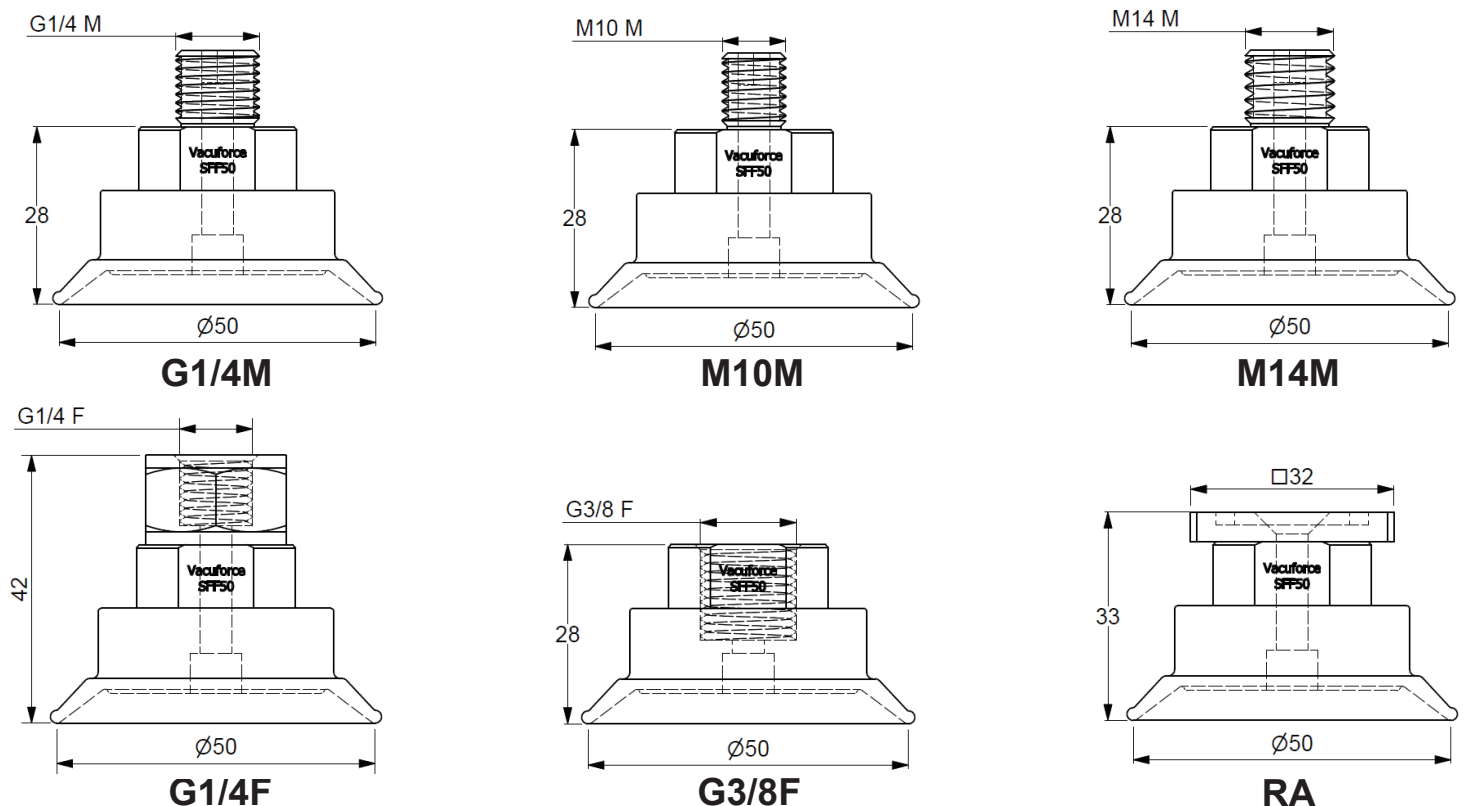
- 50mm Diameter single bellows cup
- Available in 45 and 60 durometer NBR
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options



SFF	50	N	60	G3/8F
Series	Diameter (mm)	Material		Thread
	50	N	NBR	G1/4F
				G1/4M
				G3/8F
				M10M
				M14M
				RA

For cup material data please refer to vacuforce.com/materials
 Part number example SFF50N-60-G3/8F - 50mm diameter 60 durometer NBR rubber vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



SFF60 FLAT CUPS



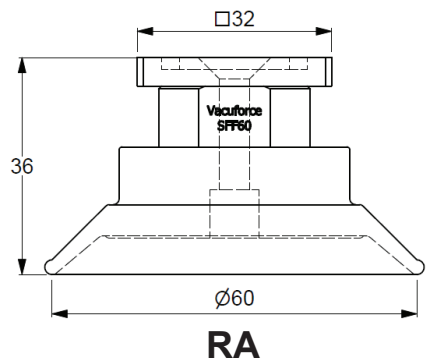
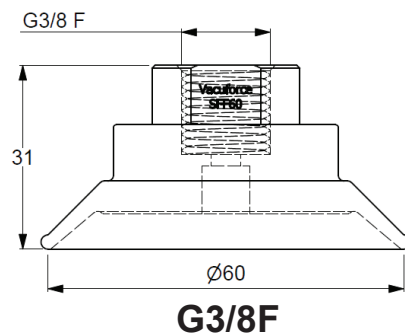
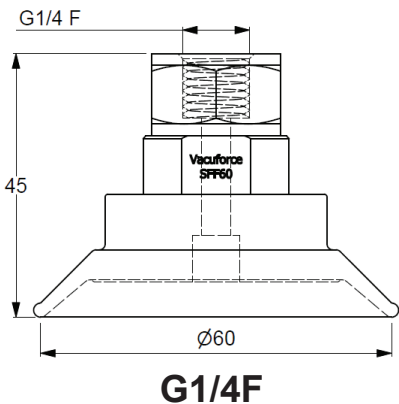
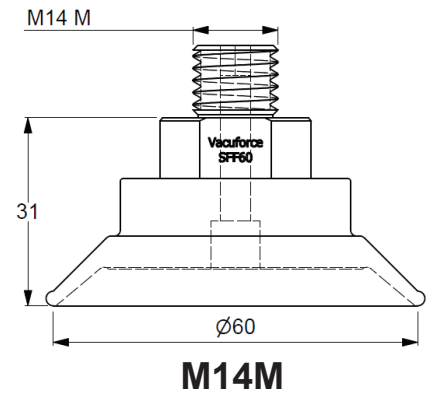
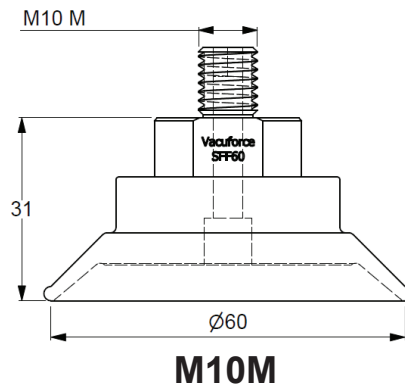
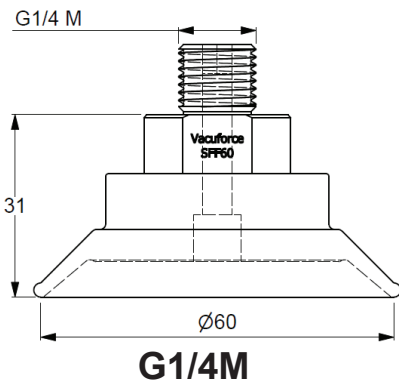
- 60mm Diameter single bellows cup
- Available in 45 and 60 durometer NBR
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options



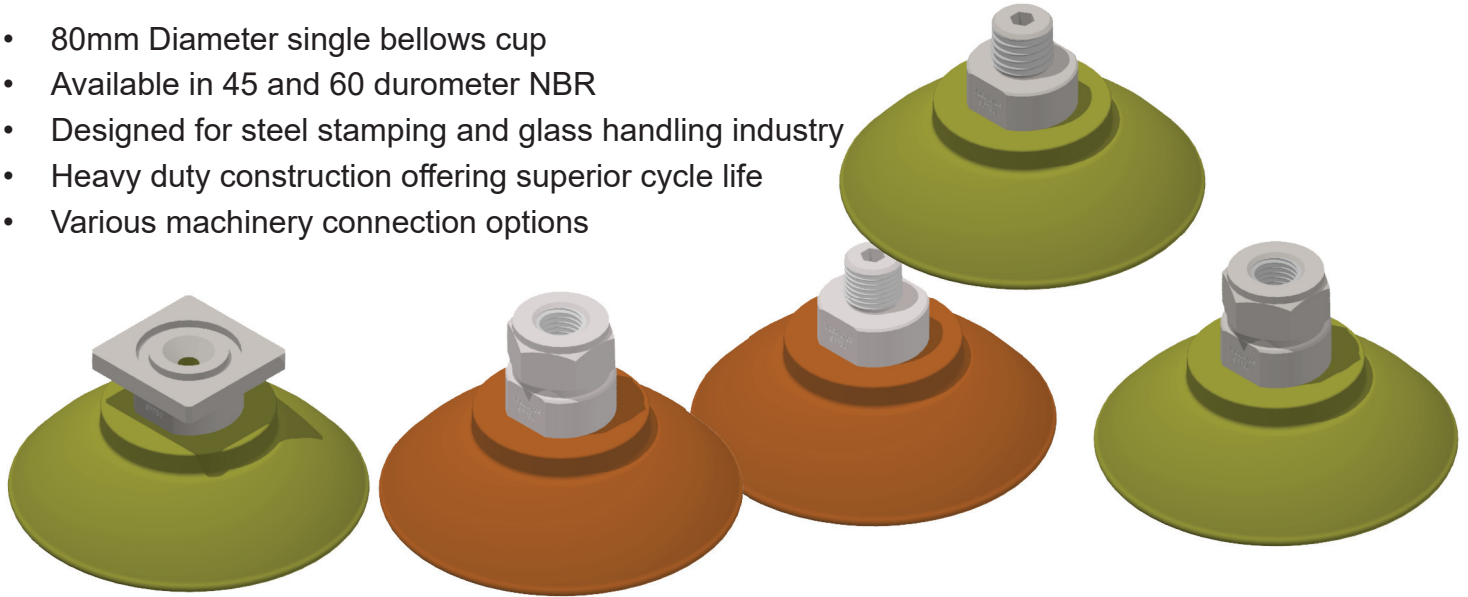
SFF	60	N	60	G3/8F
Series	Diameter (mm)	Material	Durometer	Thread
	60	N	45 (green) 60 (orange)	G1/4F G1/4M G3/8F M10M M14M RA

For cup material data please refer to vacuforce.com/materials
 Part number example SFF60N-60-G3/8F - 60mm diameter 60 durometer NBR rubber vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



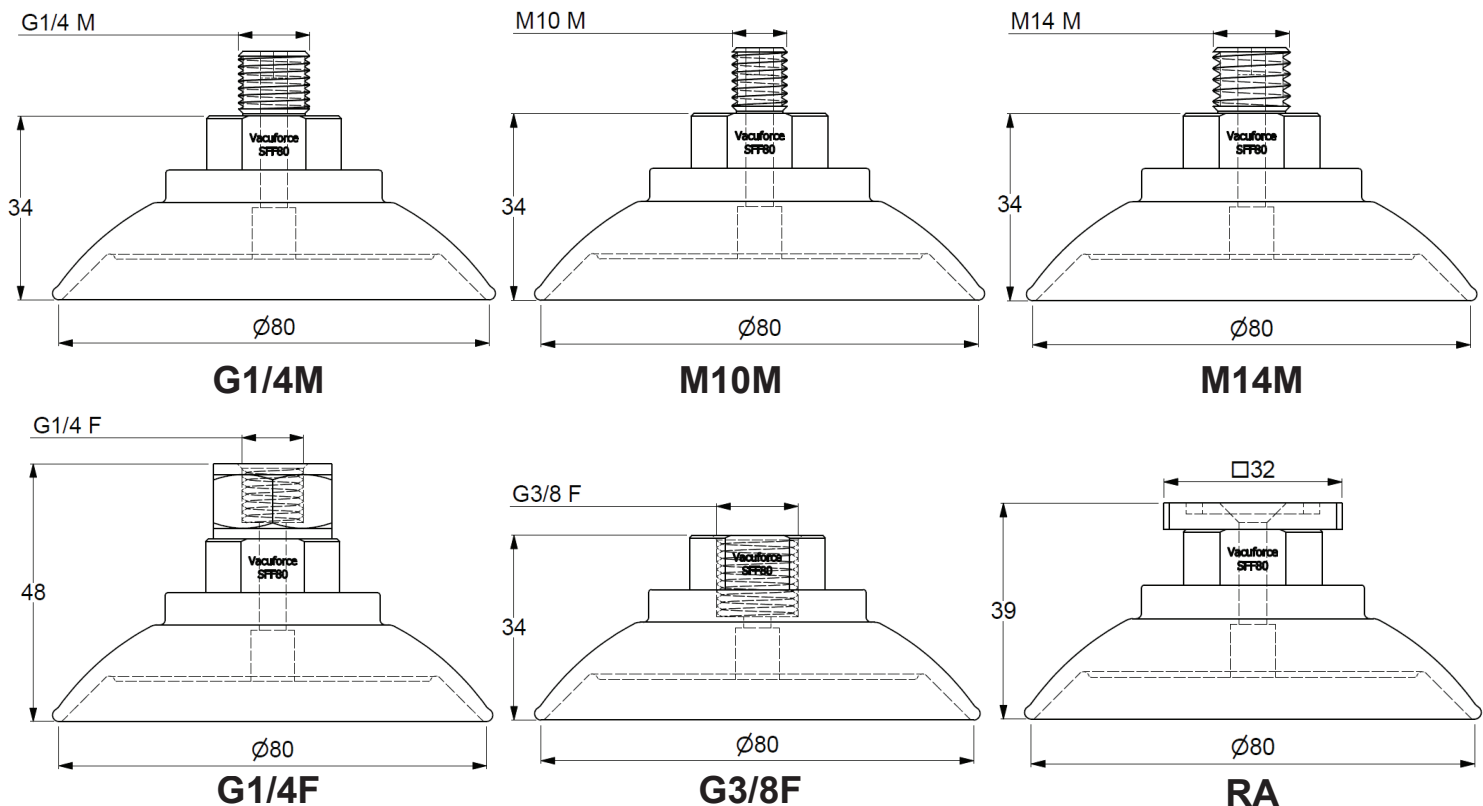
- 80mm Diameter single bellows cup
- Available in 45 and 60 durometer NBR
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options



SFF	80	N	-	60	-	G3/8F
Series	Diameter (mm)	Material		Durometer	Thread	
	80	N		45 (green)	G1/4F	
				60 (orange)	G1/4M	
					G3/8F	
					M10M	
					M14M	
					RA	

For cup material data please refer to vacuforce.com/materials
 Part number example SFF80N-60-G3/8F - 80mm diameter 60 durometer NBR rubber vacuum cup with G3/8 female fitting

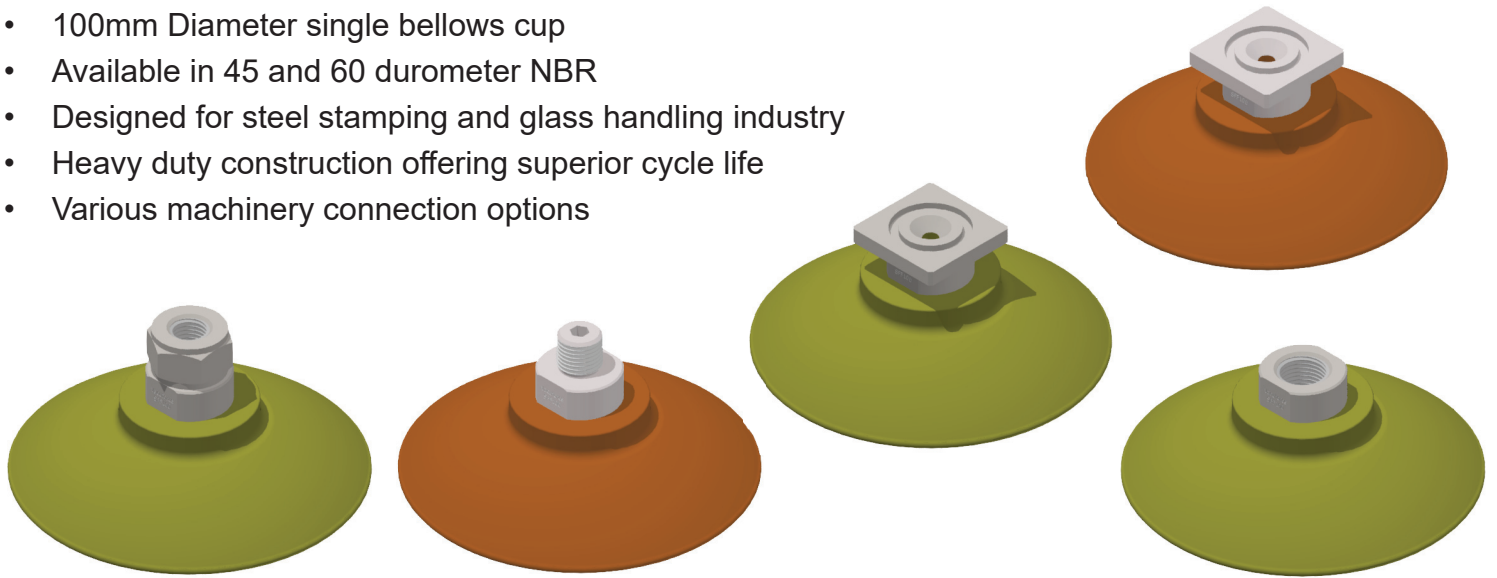
DIMENSIONS (mm)



SFF100 FLAT CUPS



- 100mm Diameter single bellows cup
- Available in 45 and 60 durometer NBR
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options

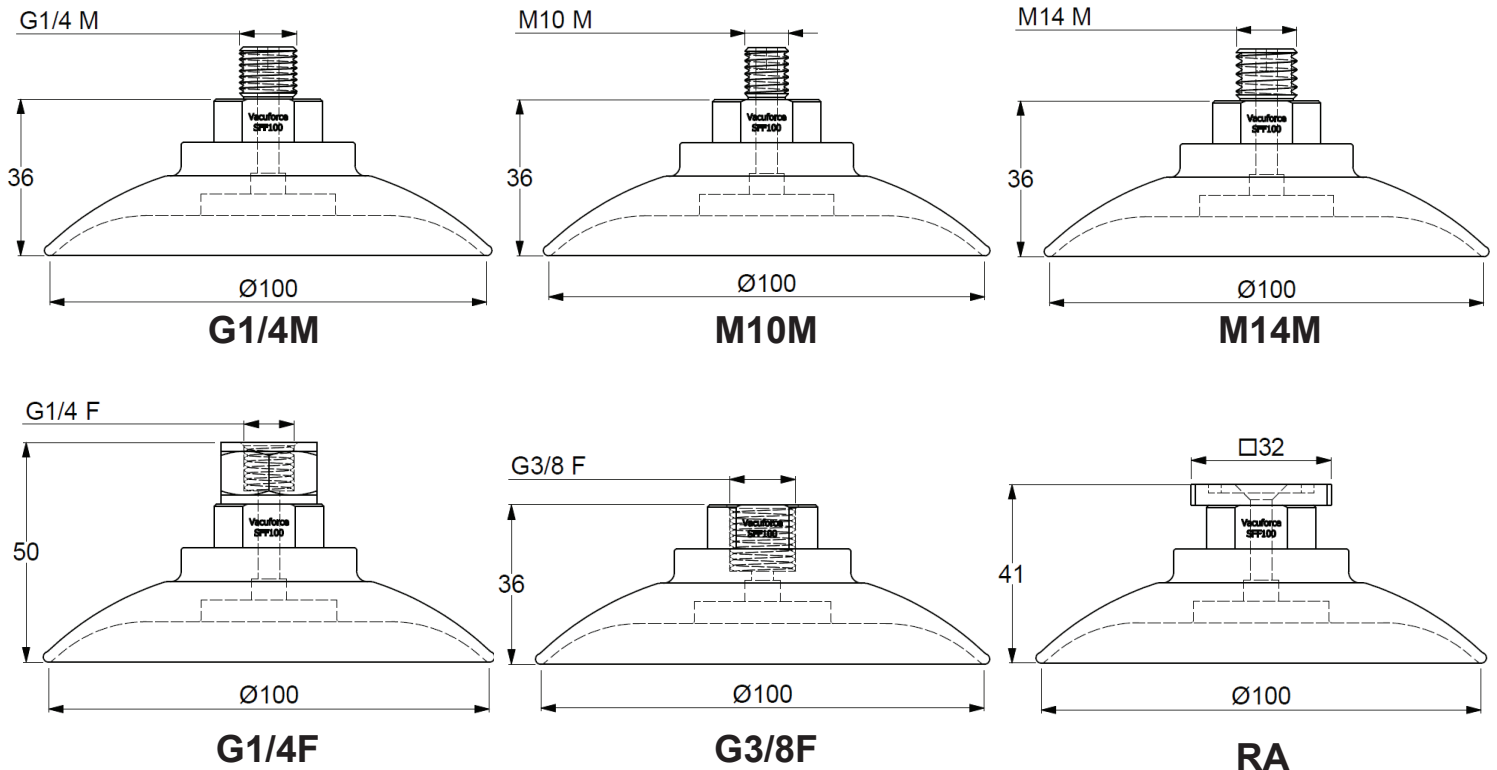


SFF	100	N	-	60	-	G3/8F
Series	Diameter (mm)	Material		Durometer		Thread
	100	N		45 (green)		G1/4F
		NBR		60 (orange)		G1/4M
						G3/8F
						M10M
						M14M
						RA

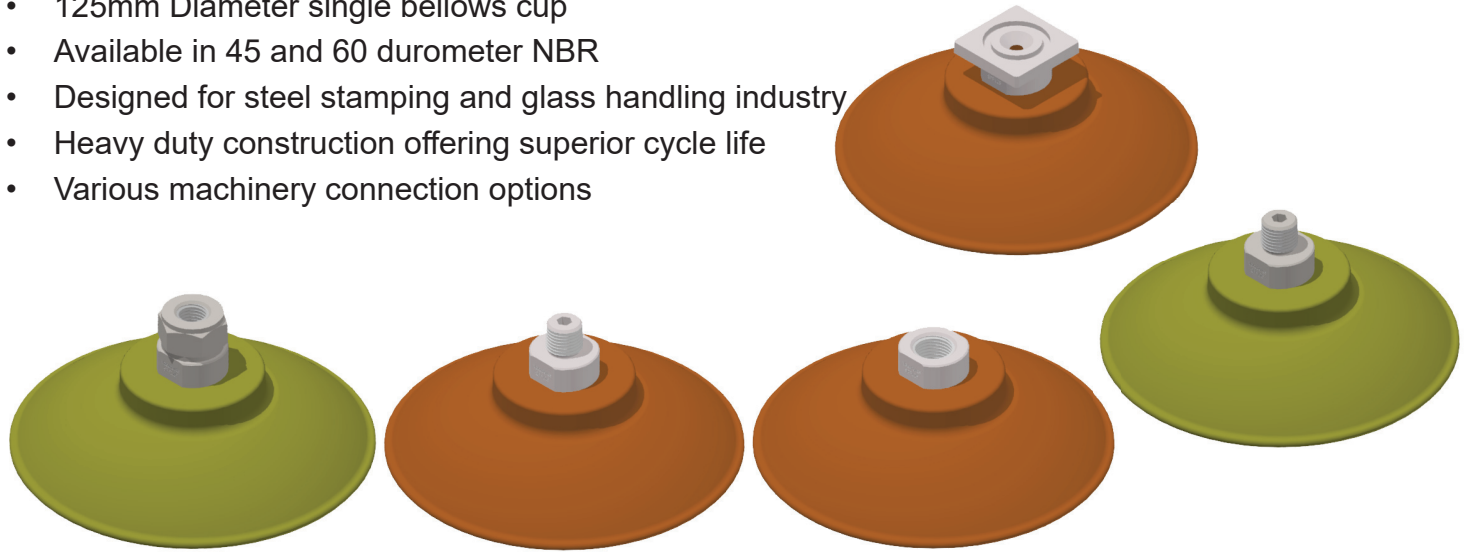
For cup material data please refer to vacuforce.com/materials

Part number example SFF100N-60-G3/8F - 100mm diameter 60 durometer NBR rubber vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



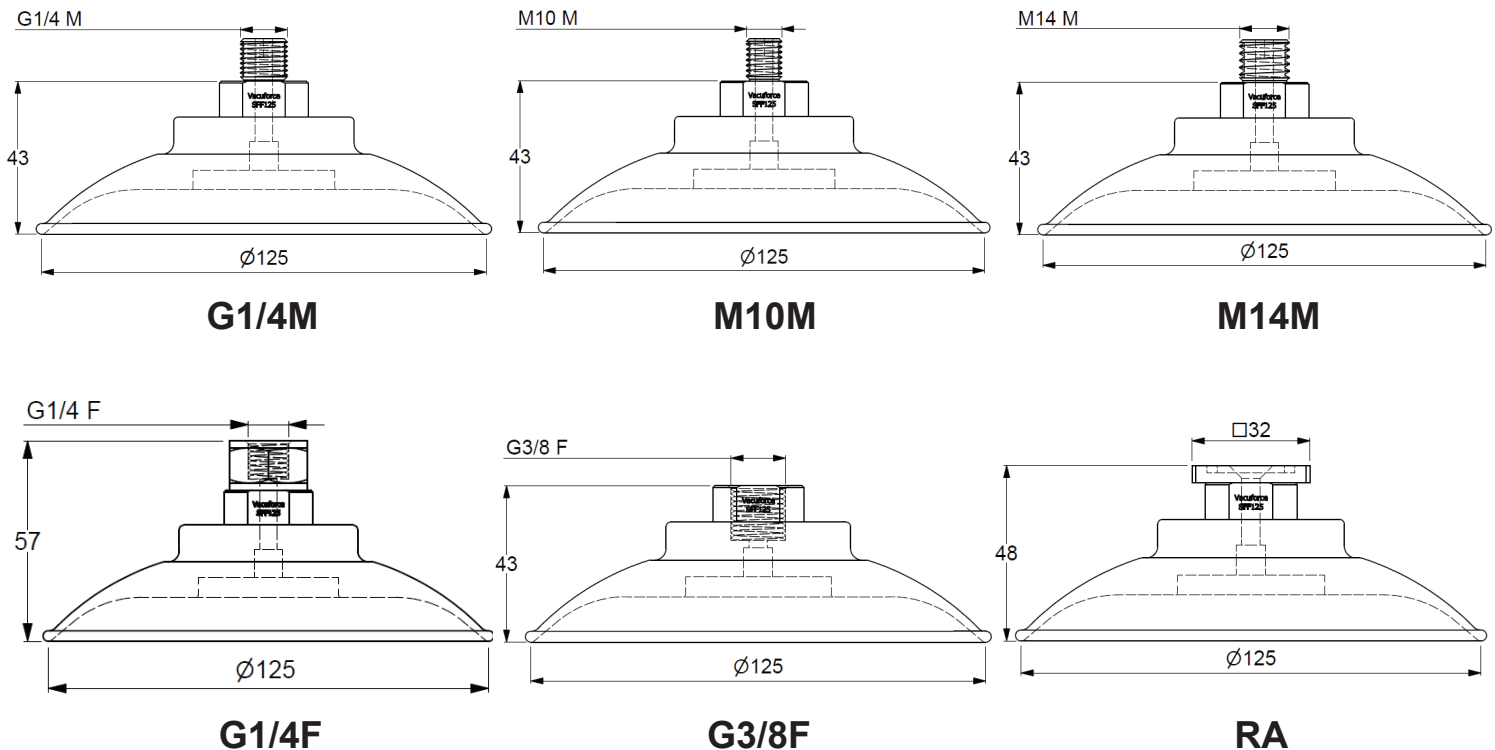
- 125mm Diameter single bellows cup
- Available in 45 and 60 durometer NBR
- Designed for steel stamping and glass handling industry
- Heavy duty construction offering superior cycle life
- Various machinery connection options



SFF	125	N	-	60	-	G3/8F
Series	Diameter (mm)	Material		Durometer	Thread	
	80	N		45 (green)	G1/4F	
				60 (orange)	G1/4M	
					G3/8F	
					M10M	
					M14M	
					RA	

For cup material data please refer to vacuforce.com/materials
 Part number example SFF125N-60-G3/8F - 125mm diameter 60 durometer NBR rubber vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



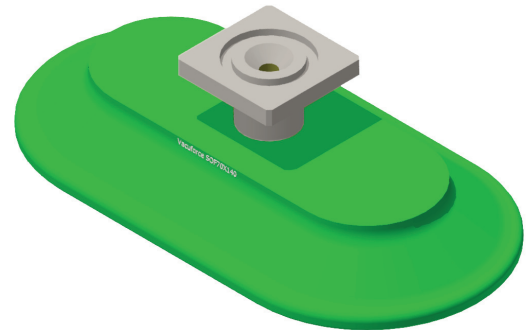
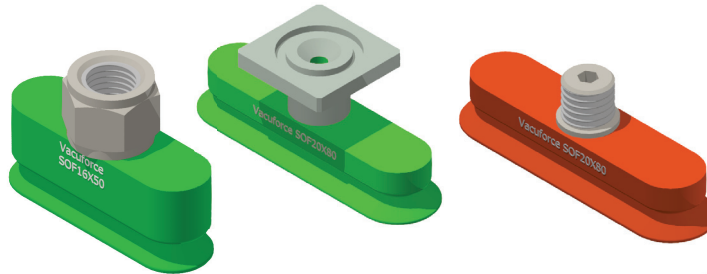
SOF OVAL FLAT CUP



The SOF series of vacuum cups are designed to offer the vacuum user a cup that can pick up on narrow surfaces.

The cups include an aluminum male or female threaded fitting for machinery and vacuum source connection.

This cup is available in NBR rubber compound in both 45 and 60 Durometer. Ideal for handling pressed steel sheet and glass products.



APPLICATIONS

- Automotive steel stamping
- Glass handling
- Plywood transfer
- Handling of oily steel surfaces
- Large box & carton handling

SOF	20X80	45	G3/8F
Series	Model	L x W (mm)	Durometer
	16X50	16 x 50	45
	20X80	20 x 80	60
	23X60	23 x 60	
	30X90	30 x 90	
	40X110	40 x 110	
	50X100	50 x 100	
	60X120	60 x 120	
	70X140	70X140	
			Thread
			G1/4F
			G1/4M
			G3/8F
			M10M
			M14M
			RA

For cup material data please refer to vacuforce.com/materials

Part number example SFF80N-60-G3/8F

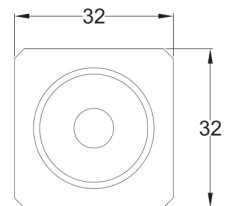
80mm diameter flat cup 60 Durometer NBR with G3/8 female thread

LEVEL COMPENSATORS

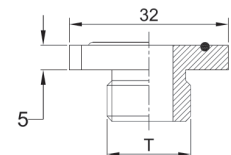
Refer to page 1.33 for suitable level compensators for this vacuum cup range.



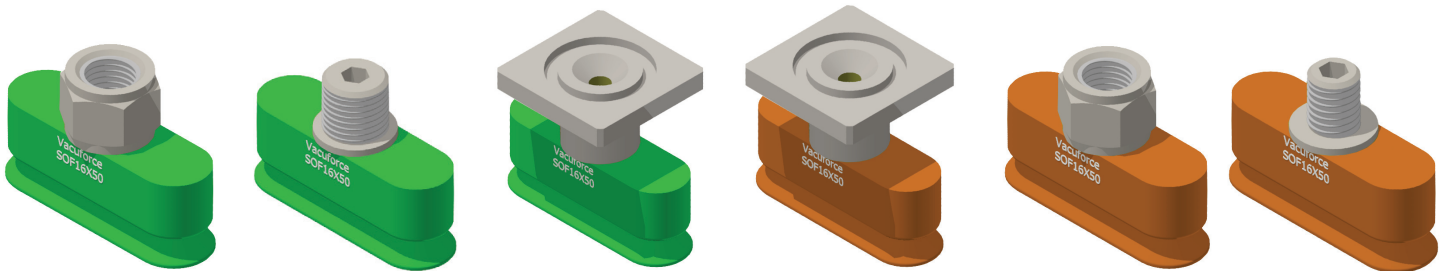
QUICK RELEASE FITTINGS



Model	T
QRG38	G3/8
QRN38	3/8NPSF



- 16mm x 50mm flat oval vacuum cup
- Available in 45 and 60 durometer NBR
- Designed for steel stamping and glass handling industry
- Ideal for narrow surfaces such as a steel door frame
- Heavy duty construction offering superior cycle life
- Various machinery connection options



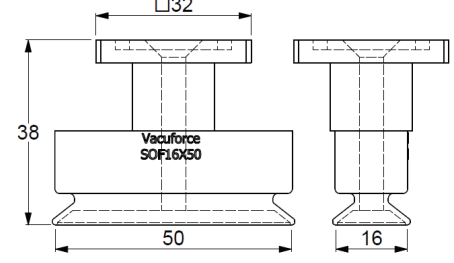
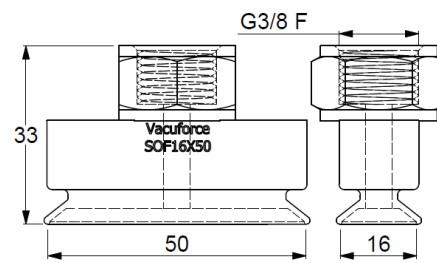
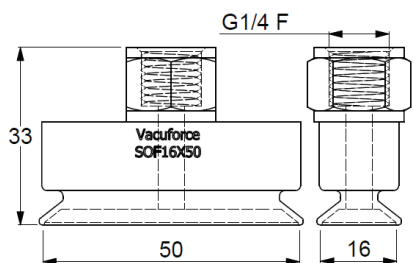
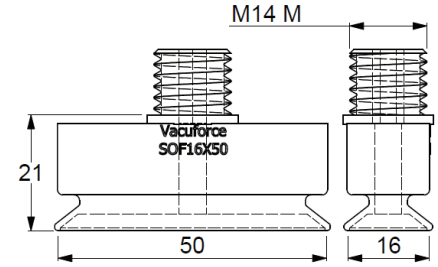
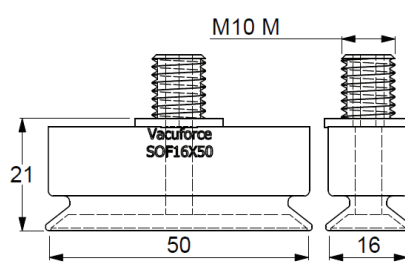
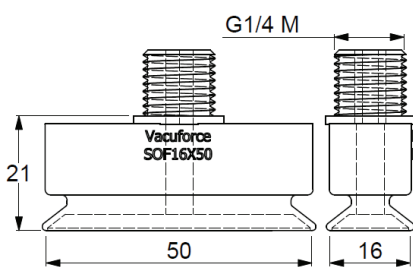
SOF 16X50 - 45 - G3/8F

Series	Model	L x W (mm)	Durometer	Thread
	16X50	16 x 50	45	G1/4F
			60	G1/4M
				G3/8F
				M10M
				M14M
				RA

For cup material data please refer to vacuforce.com/materials

Part number example SOF16X50-45-G3/8F - 16mm x 50mm oval cups in 45 durometer NBR rubber vacuum cup with G3/8 female fitting

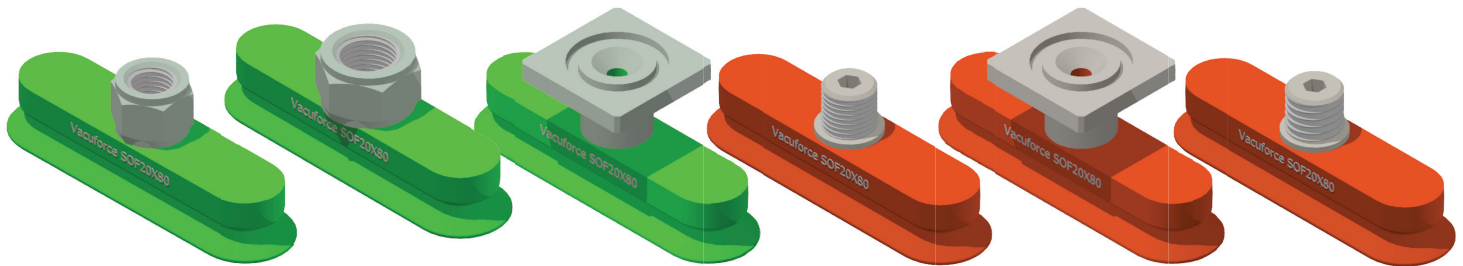
DIMENSIONS (mm)



SOF20X80 FLAT OVAL CUP



- 20mm x 80mm flat oval vacuum cup
- Available in 45 and 60 durometer NBR
- Designed for steel stamping and glass handling industry
- Ideal for narrow surfaces such as a steel door frame
- Heavy duty construction offering superior cycle life
- Various machinery connection options



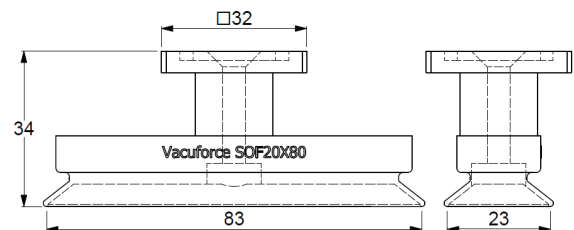
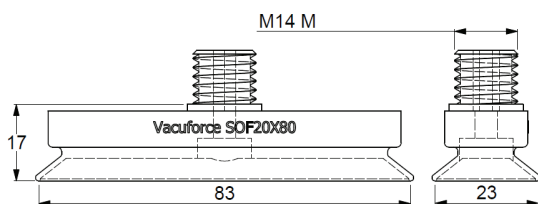
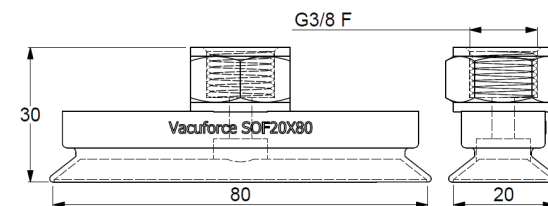
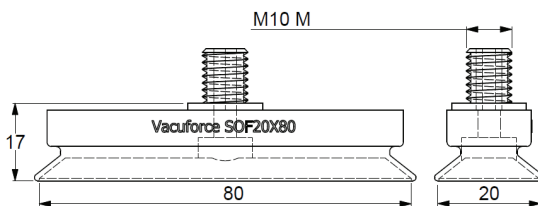
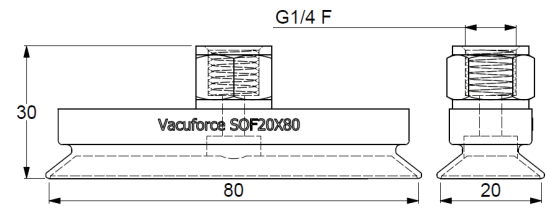
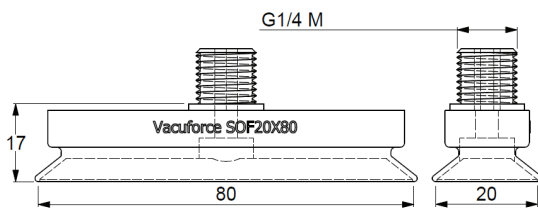
SOF 20X80 - 45 - G3/8F

Series	Model	L x W (mm)	Durometer	Thread
	20X80	20 x 80	45	G1/4F
			60	G1/4M
				G3/8F
				M10M
				M14M
				RA

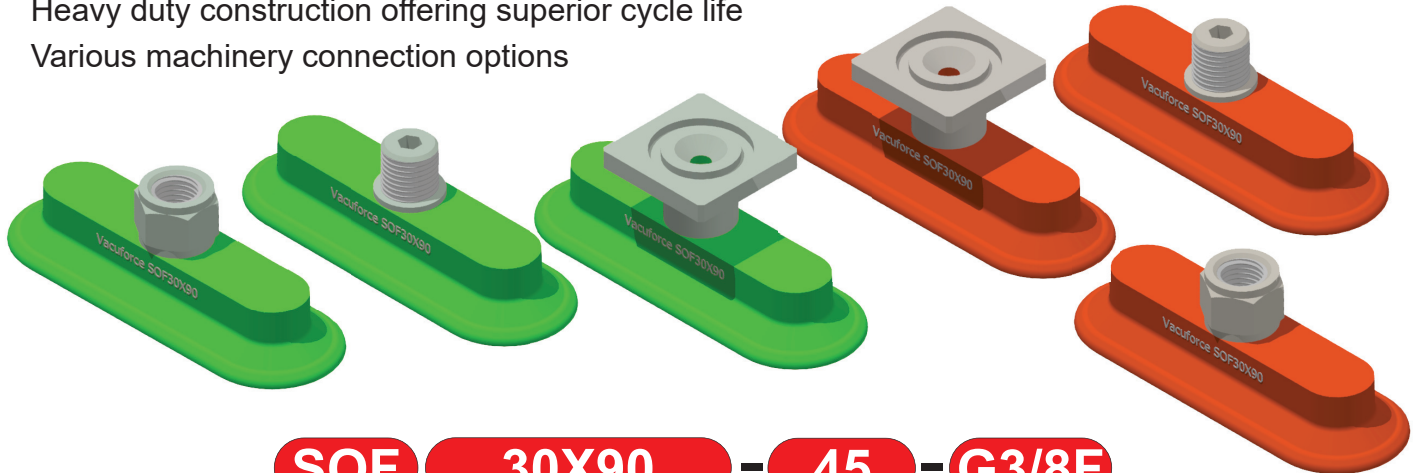
For cup material data please refer to vacuforce.com/materials

Part number example SOF20X80-45-G3/8F - 20mm x 80mm oval cups in 45 durometer NBR rubber vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



- 30mm x 90mm flat oval vacuum cup
- Available in 45 and 60 durometer NBR
- Designed for steel stamping and glass handling industry
- Ideal for narrow surfaces such as a steel door frame
- Heavy duty construction offering superior cycle life
- Various machinery connection options



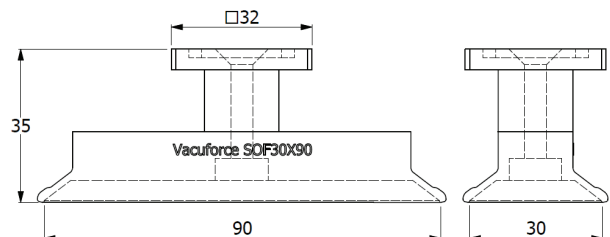
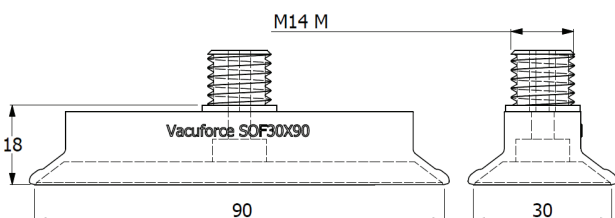
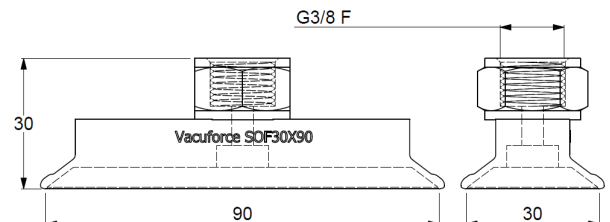
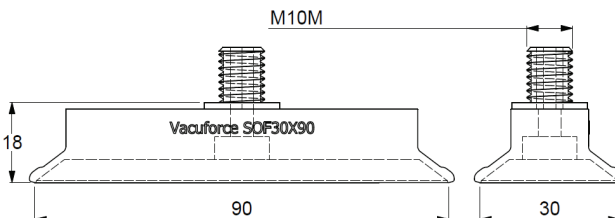
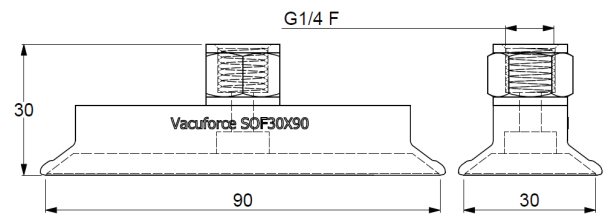
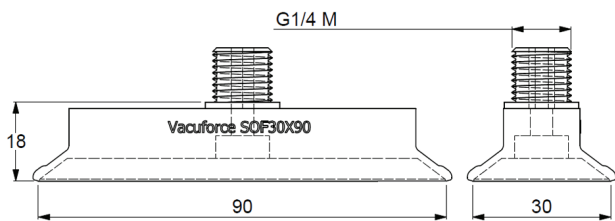
SOF 30X90 - 45 - G3/8F

Series	Model	L x W (mm)	Durometer	Thread
	30X90	30 x 90	45	G1/4F
			60	G1/4M
				G3/8F
				M10M
				M14M
				RA

For cup material data please refer to vacuforce.com/materials

Part number example SOF30X90-45-G3/8F - 30mm x 90mm oval cups in 45 durometer NBR rubber vacuum cup with G3/8 female fitting

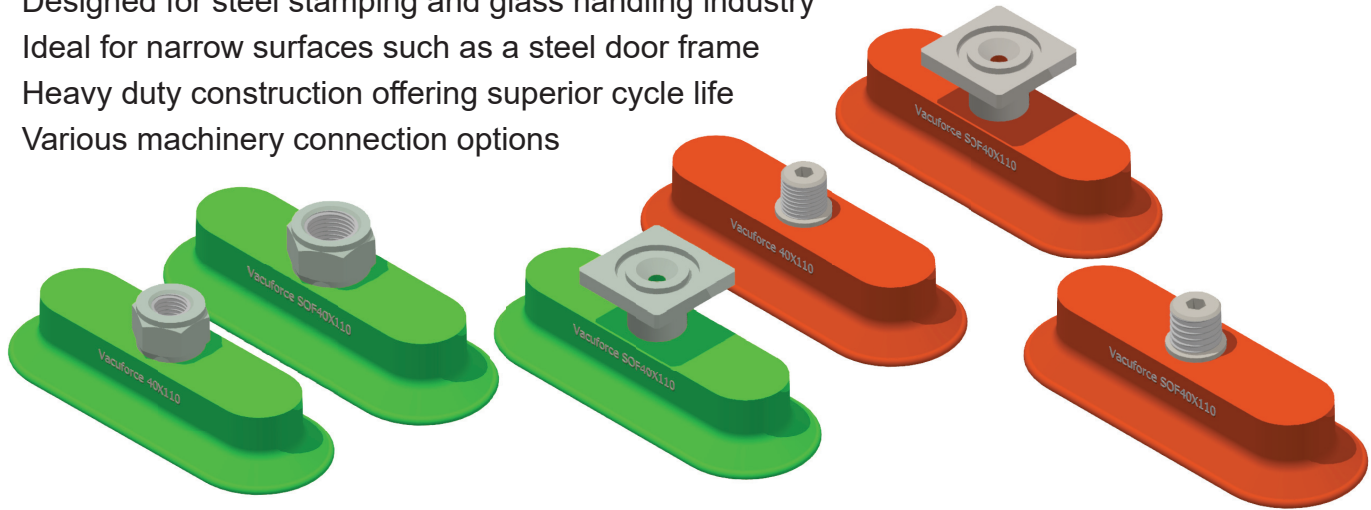
DIMENSIONS (mm)



SOF40X110 FLAT OVAL CUP



- 40mm x 110mm flat oval vacuum cup
- Available in 45 and 60 durometer NBR
- Designed for steel stamping and glass handling industry
- Ideal for narrow surfaces such as a steel door frame
- Heavy duty construction offering superior cycle life
- Various machinery connection options



SOF 40X110 - 45 - G3/8F

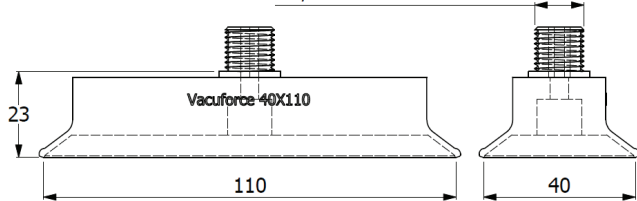
Series	Model	L x W (mm)	Durometer	Thread
	40X110	40 x 110	45	G1/4F
			60	G1/4M
				G3/8F
				M10M
				M14M
				RA

For cup material data please refer to vacuforce.com/materials

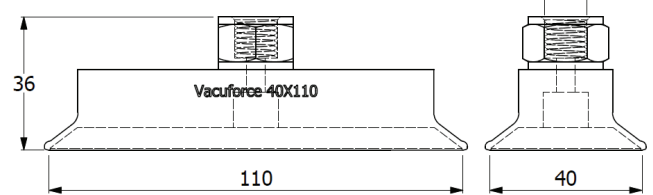
Part number example SOF40X110-45-G3/8F - 40mm x 110mm oval cups in 45 durometer NBR rubber vacuum cup with G3/8 female fitting

DIMENSIONS (mm)

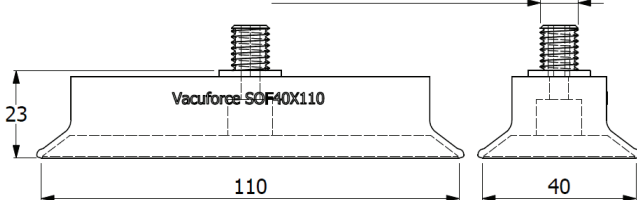
G1/4 M



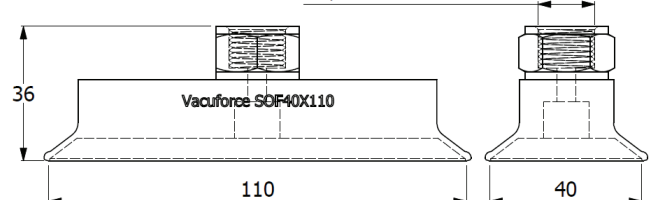
G1/4 F



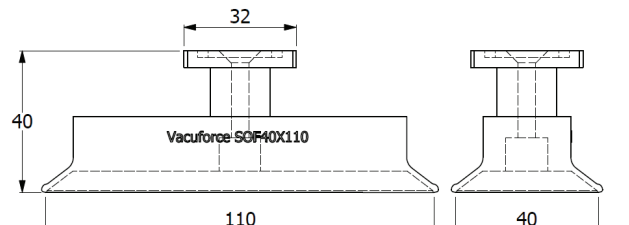
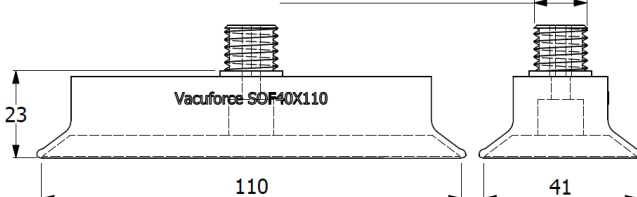
M10 M



G3/8 F



M14 M



- 50mm x 100mm flat oval vacuum cup
- Available in 45 and 60 durometer NBR
- Designed for steel stamping and glass handling industry
- Ideal for narrow surfaces such as a steel door frame
- Heavy duty construction offering superior cycle life
- Various machinery connection options



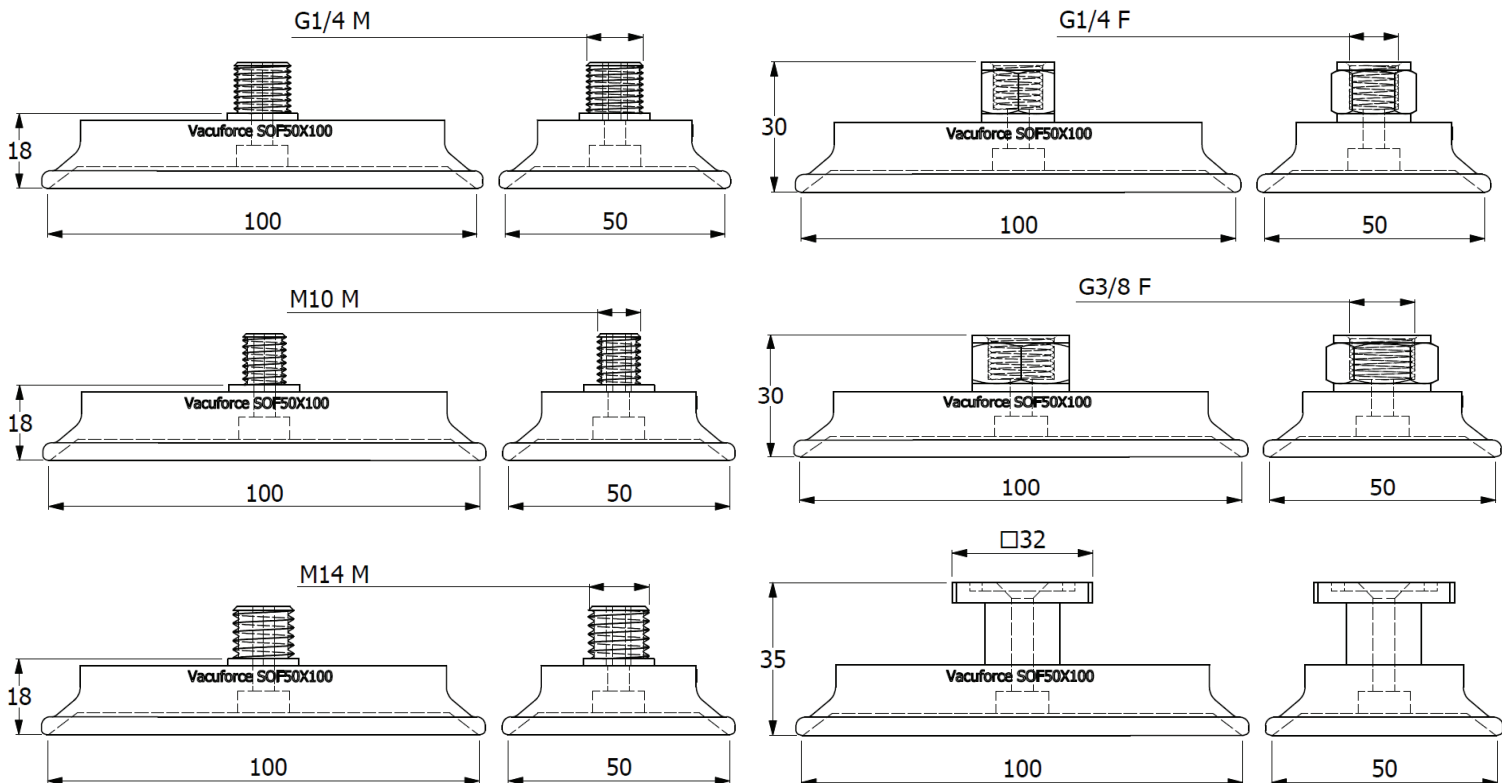
SOF 50X100 - 45 - G3/8F

Series	Model	L x W (mm)	Durometer	Thread
	50X100	50 x 100	45	G1/4F
			60	G1/4M
				G3/8F
				M10M
				M14M
				RA

For cup material data please refer to vacuforce.com/materials

Part number example SOF50X100-45-G3/8F - 50mm x 100mm oval cups in 45 durometer NBR rubber vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



SOF60X120 FLAT OVAL CUP



- 60mm x 120mm flat oval vacuum cup
- Available in 45 and 60 durometer NBR
- Designed for steel stamping and glass handling industry
- Ideal for narrow surfaces such as a steel door frame
- Heavy duty construction offering superior cycle life
- Various machinery connection options



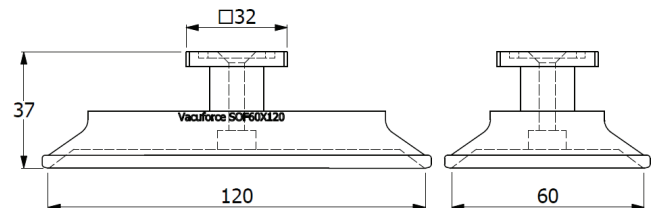
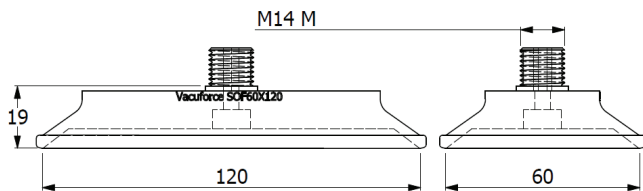
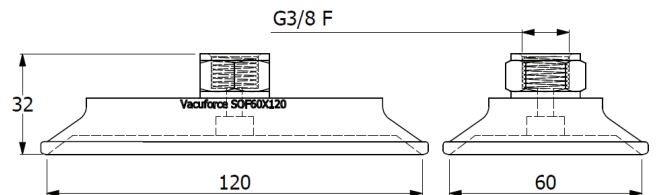
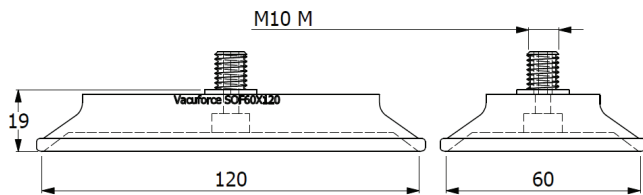
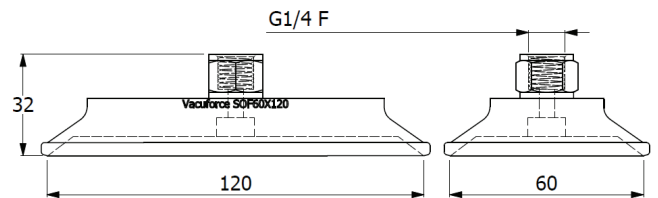
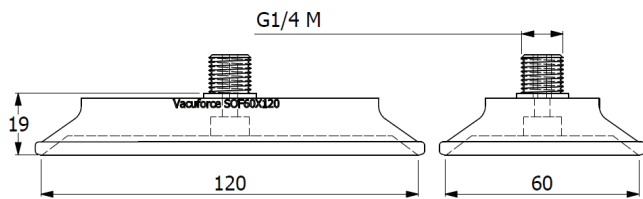
SOF 60X120 - 45 - G3/8F

Series	Model	L x W (mm)	Durometer	Thread
	60X120	60 x 120	45	G1/4F
			60	G1/4M
				G3/8F
				M10M
				M14M
				RA

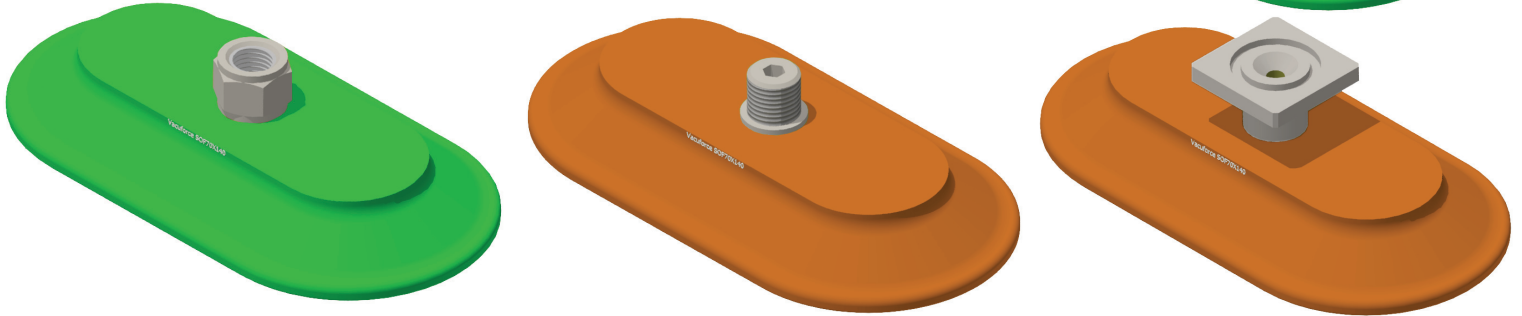
For cup material data please refer to vacuforce.com/materials

Part number example SOF60X120-45-G3/8F - 60mm x 120mm oval cups in 45 durometer NBR rubber vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



- 70mm x 140mm flat oval vacuum cup
- Available in 45 and 60 durometer NBR
- Designed for steel stamping and glass handling industry
- Ideal for narrow surfaces such as a steel door frame
- Heavy duty construction offering superior cycle life
- Various machinery connection options



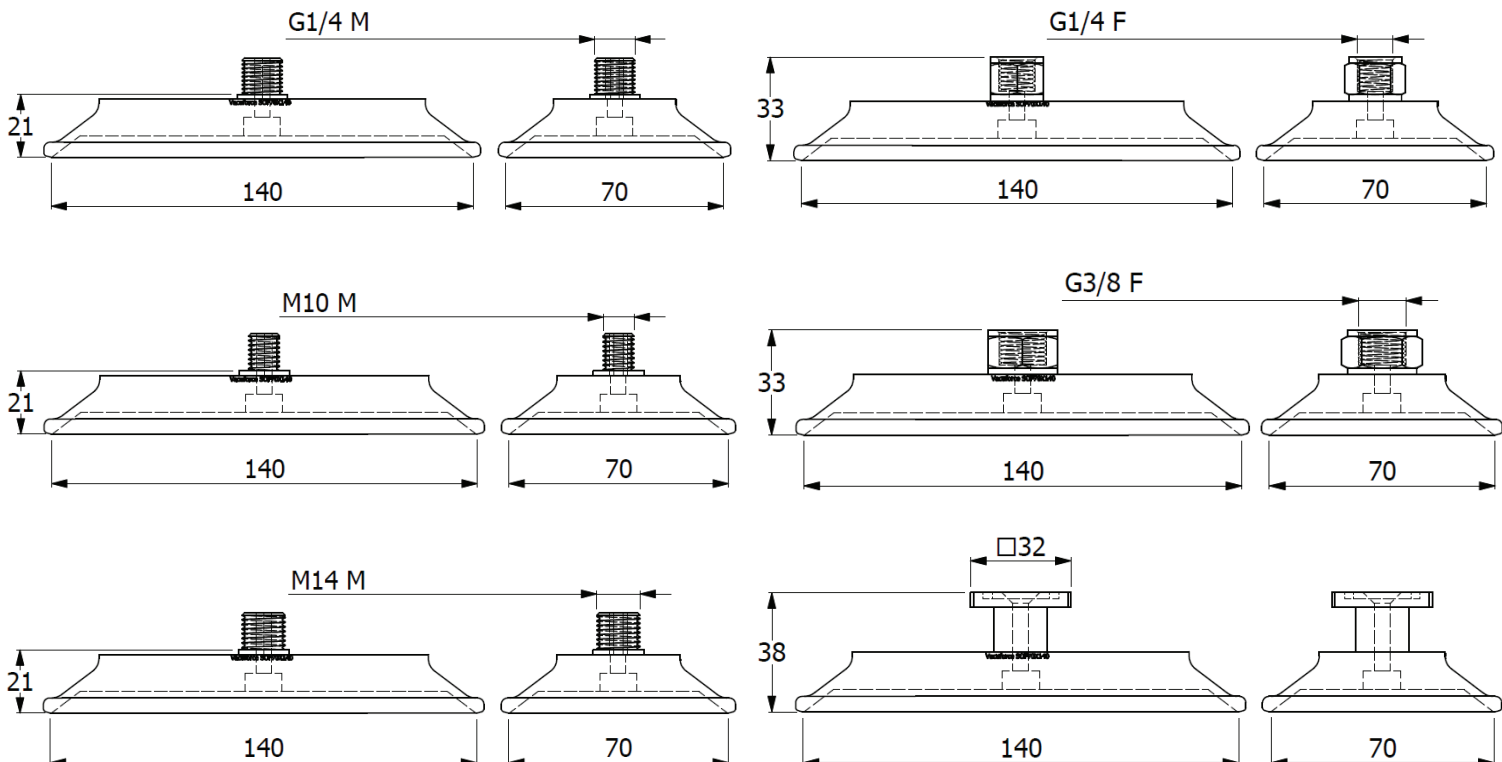
SOF 70X140 - 45 - G3/8F

Series	Model	L x W (mm)	Durometer	Thread
	70X140	70 x 140	45	G1/4F
			60	G1/4M
				G3/8F
				M10M
				M14M
				RA

For cup material data please refer to vacuforce.com/materials

Part number example SOF70X140-45-G3/8F - 70mm x 140mm oval cups in 45 durometer NBR rubber vacuum cup with G3/8 female fitting

DIMENSIONS (mm)



SNP FOAM SEAL CUPS



- Designed for handling rough or embossed materials
- Excellent vacuum seal for wood, brick, stone and more
- Two types of foam density depending on application
- Self adhesive foam seal



SNP

107x 75

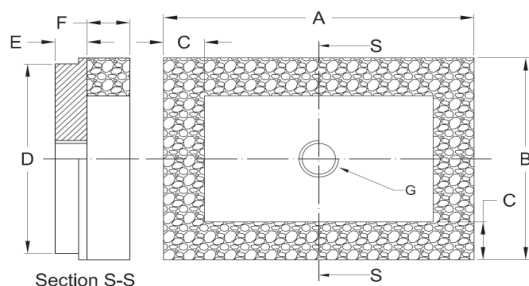
NAT

Series	Length x Width (mm)	Foam Type	
	107x75	NAT	Natural Rubber
	135x50	NBR	Nitrile Rubber
	135x60		
	290x68		
	290x140		

Part number example SNP107X75NAT
107mm x 75mm Natural Foam Rubber
Suction Cup Including Fitting

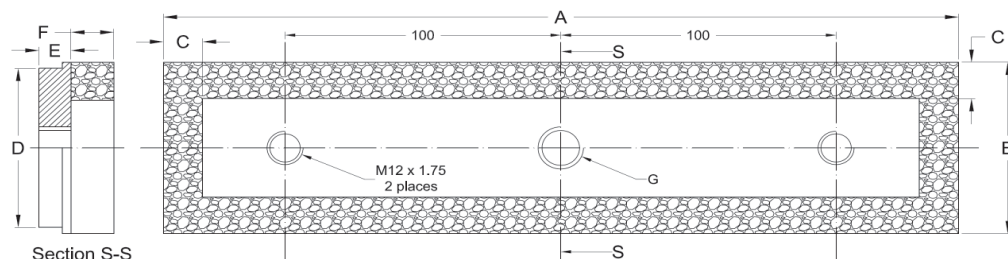
DIMENSIONS (mm)

SNP107X75, SNP135X50 & SNP135X60



Model	A	B	C	D	E	F	G
SNP107X75	107	75		70			
SNP135X50		50		45			G1/8
SNP135X60	135	60	15	55	11	15	
SNP290X68		68		62			G1/2
SNP290X140	290	140		134			

SNP290X68, SNP290X140



Spare Seals

Assembly	Spare Seal
SNP107X75	FR107X75
SNP135X50	FR135X50
SNP135X60	FR135X60
SNP290X68	FR290X68
SNP290X140	FR290X140



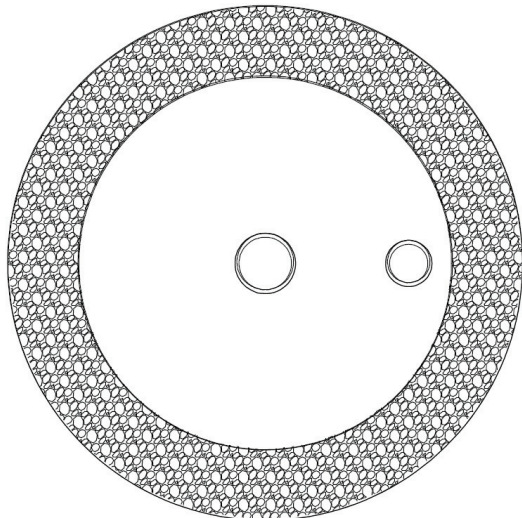
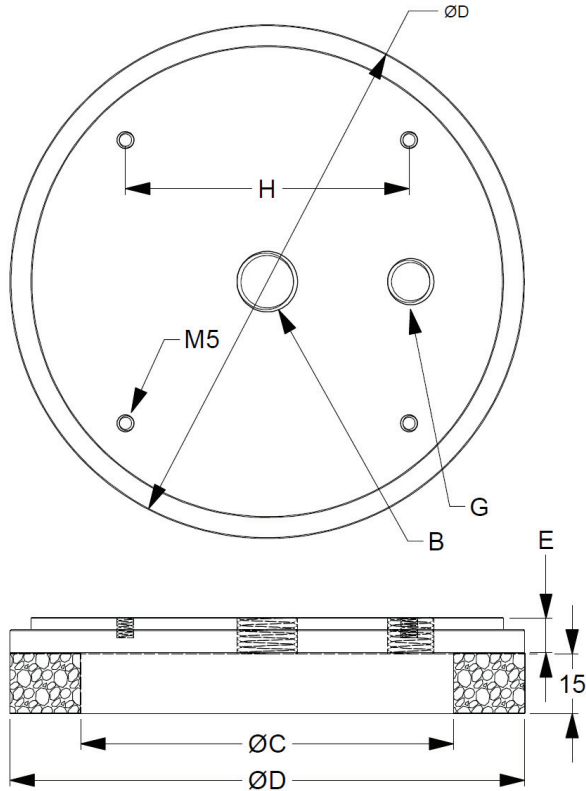
LEVEL COMPENSATORS

Refer to page 1.33 for suitable NON-ROTATING level compensators for this vacuum cup range.



- Designed for handling rough or embossed materials
- Excellent vacuum seal for wood, brick, stone and more
- Two types of foam density depending on application
- Self adhesive foam seal

DIMENSIONS (mm)



SOP

92

NAT

Series	Diameter (mm)	Foam Type	
	40	NAT	Natural Rubber
	64	NBR	Nitrile Rubber
	92		
	127		
	180		

Part number example SOP92NAT

92mm Diameter Natural Foam Rubber Suction Cup Including Fitting

Model	A	B	C	D	E	F	G
SOP40	40	G1/4	20	40	10	15	n/a
SOP64	60		40	64			
SOP92	88	G3/8	64	92	15	15	G3/8
SOP127	120		92	127			
SOP180	160	G1/2	140	180			

Spare Seals

Assembly	Natural Rubber Seal	Nitrile Rubber Seal
SOP40	FR40NAT	FR40NBR
SOP64	FR64NAT	FR64NBR
SOP92	FR92NAT	FR92NBR
SOP127	FR127NAT	FR127NBR
SOP180	FR180NAT	FR180NBR



VS FOAM SEAL CUPS



The EPDM foam vacuum cups are developed for handling very rough or coarse products such as concrete, rough sawn wood, marble and granite etc. These cups are sold as two separate parts.

1. Anodized Aluminum Support
2. Foam Seal

The foam is able to deform to the profile of the product being handled and offer a virtually air tight seal to enable safe lift and transfer. A mounting port is central to the support. This thread is suitable for either 1/2NPT or G1/2 studding.

If a separate vacuum port is required, the offset G1/4 port can be used. This port is used for either a venturi or vacuum gauge connection.

The cup fitting and seal should be ordered seperately

Cup Fitting Only
VFCF150MMF

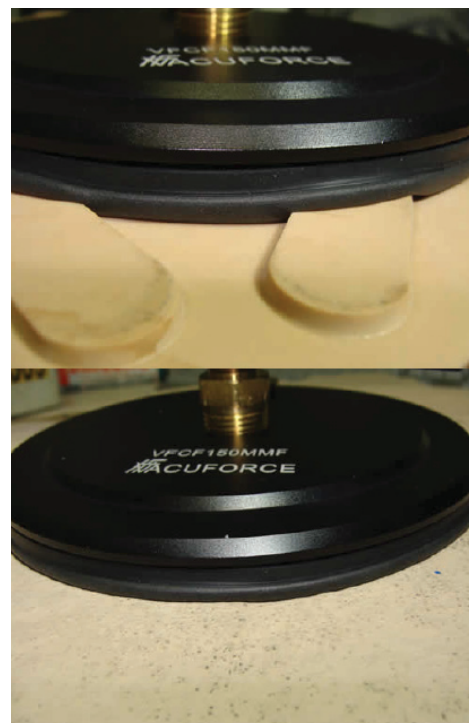
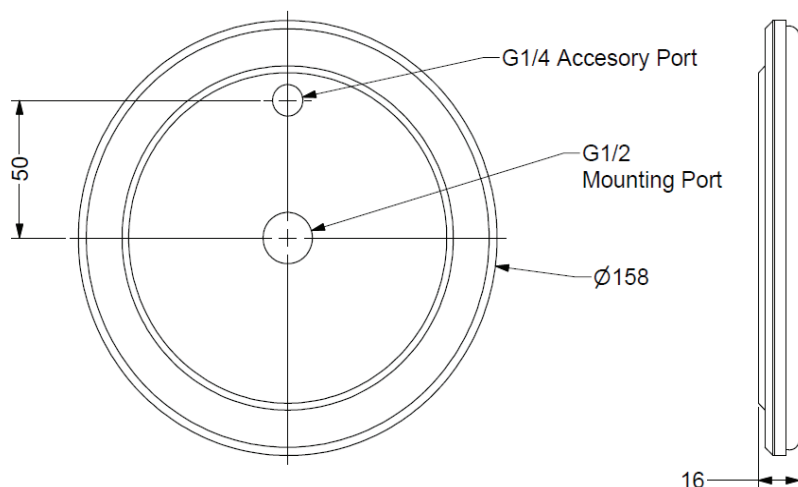
Seal Only
VS150-E



Fitting and Cup Seal Assembled



DIMENSIONS (mm)

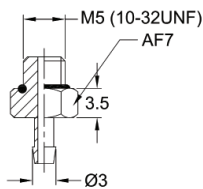


These cup fittings enable the vacuum cups shown in this catalogue to be mounted to machinery and other apparatus. All male threads utilize the Vacuforce Tri Thread which is a universal thread form suitable for connection to female NPT, NPSF, BSPT and BSPP threads.

All fittings are hard anodized and can be used with all VFB, VFBL, VFDB and VFF vacuum cups.



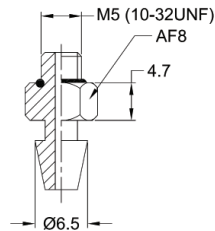
FITTING TYPE A



Model

VFCFB3-M5

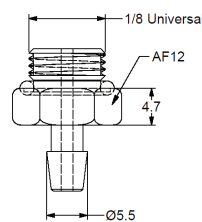
FITTING TYPE B



Model

VFCFB6.5-M5

FITTING TYPE B

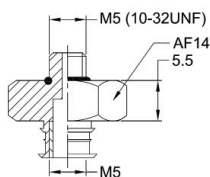


Model

VFCF10-U01

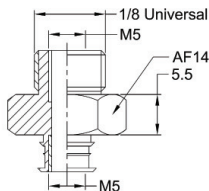


FITTING TYPE C



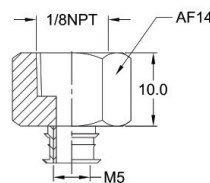
Model

VFCF20-M5



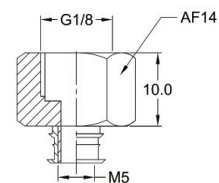
Model

VFCF20-U01



Model

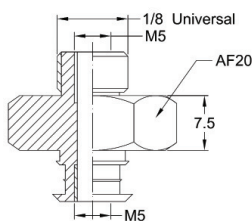
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Model

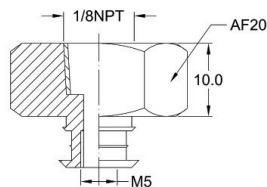
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FITTING TYPE D



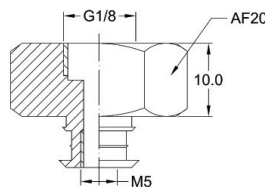
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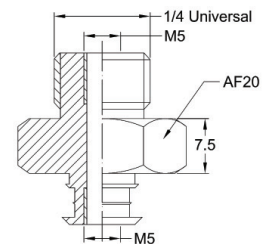
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VFCF40-1/8FNPT



Model

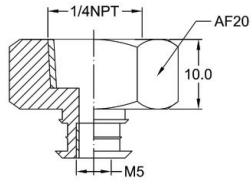
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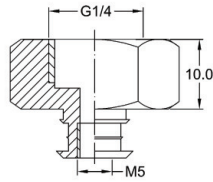
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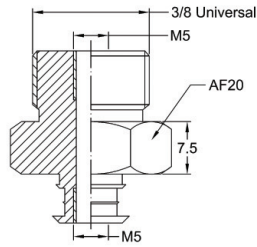
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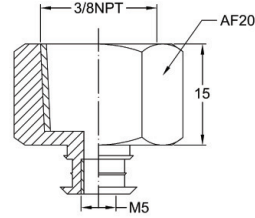
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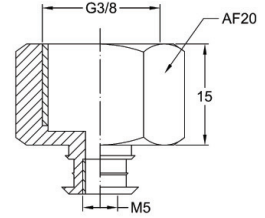
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Model
VFCF40-U03

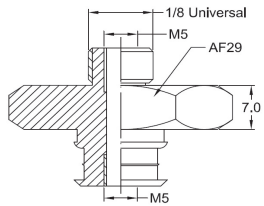


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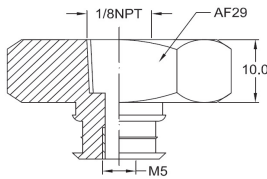


Model
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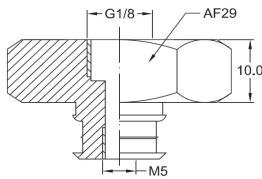
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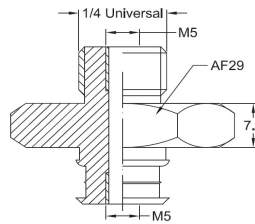
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VFCF50-1/8FNPT

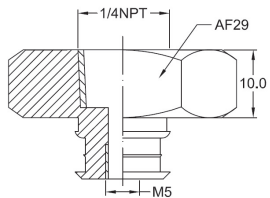


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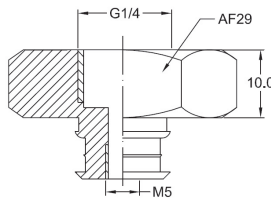


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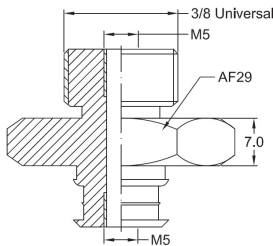
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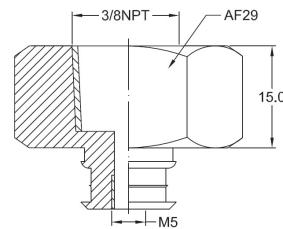
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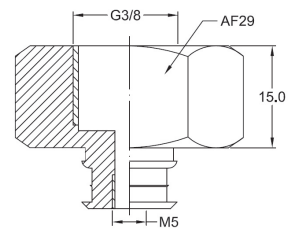
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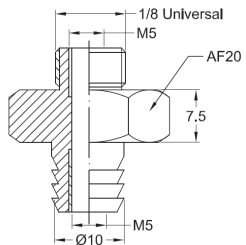


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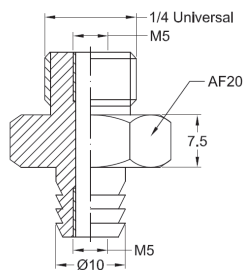


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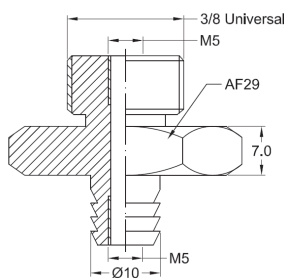
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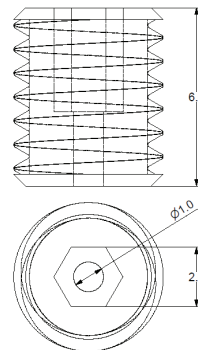
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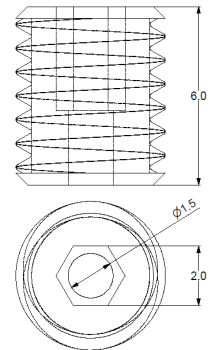
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Model
VFCFB10-U03



Model
VFOS1.0



Model
VFOS1.5

FITTING TYPE J, K & L

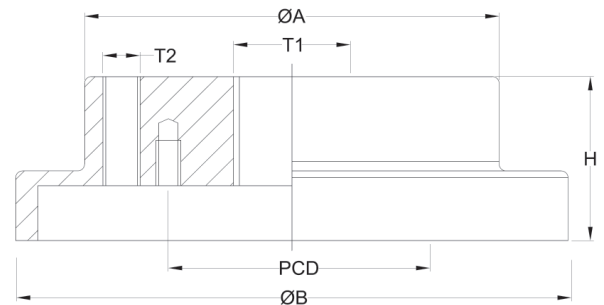
The cup fitting series J, K and L utilize M4 bolts to attach the corresponding cup to the fitting body. The fitting model number shown in the table below includes the necessary bolts.

The K & L series fitting has an optional 1/8 vacuum port as shown by T2 in the drawing below.

VFCF	75	1/8	N
Series	Model	Mounting Thread	Thread Type
	75		BSPP
	110		N
	150		NPT



Fitting Type	Model	ØA	PCD	T1	T2	H	ØB
J	VFCF75-1/8	45	35	1/8	n/a	18	55
	VFCF75-1/4			1/4			
	VFCF75-3/8			3/8			
K	VFCF110-1/4	70	55	1/4	1/8	15	79
	VFCF110-3/8			3/8			
	VFCF110-1/2			1/2			
L	VFCF150-3/8	90	71	3/8		16	112
	VFCF150-1/2			1/2			



Blanking Plugs



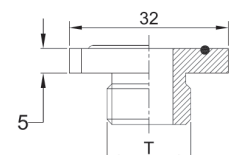
These blanking plugs are used to block female threads in a vacuum, compressed air system or a component port. These fittings utilize universal threads and are suitable for NPT, BSPT and BSPP(G) pipe thread connection.

Model	Thread Size
VFBP1/8	1/8 Universal
VFBP1/4	1/4 Universal
VFBP3/8	3/8 Universal

QUICK RELEASE FITTINGS



Model	T
QRG38	G3/8
QRN38	3/8NPSF



The Vacuforce cup holders, often referred to as level compensators, are normally used on multiple vacuum cup systems such as sheet or plate handling where the height of the load varies during production cycles. These cup holders have been developed with the best materials to offer maximum life in the toughest applications.

Materials

- Hard anodized aluminum thread fittings
- Nickel Plated bushings and lock nuts
- Hard anodized aluminum or chrome plated steel rods



VFLC		EX		NR		18		25	M16		X40
Spring Type		Rotating		Cup Thread		Buffer Stroke		Bulkhead Thread		Bulkhead Length	
EX	External	NR	Non-Rotating	M5	M5						
IN	Internal		Rotating	18	G1/8						
				14	G1/4						
				38	G3/8						
				12	G1/2						

Non-Rotating Models

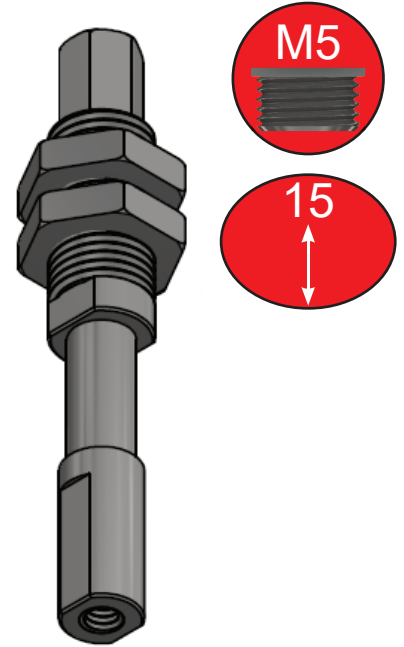
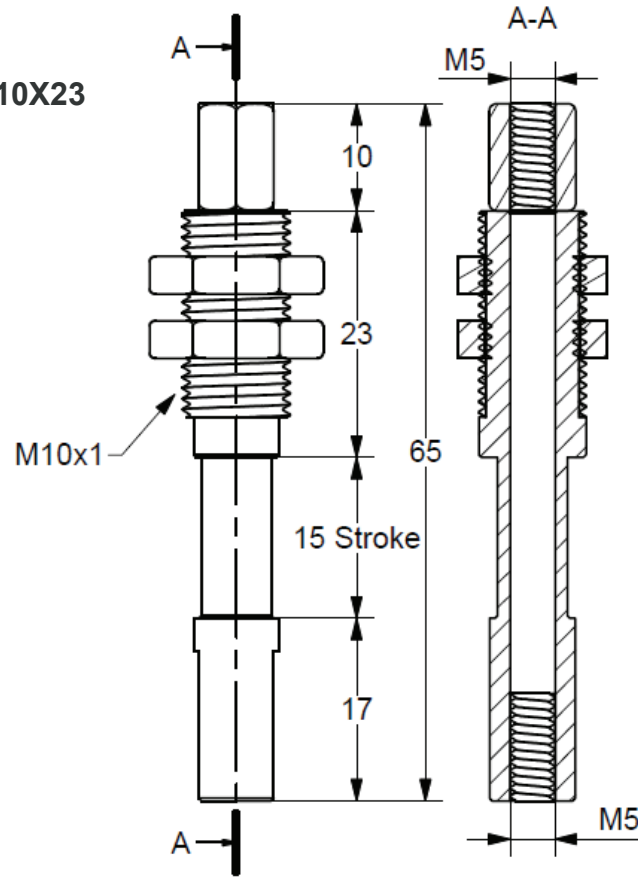
Non-Rotating models are used in applications where a single unit is being used for pick and place. They are also suitable for connection to a square or oval suction cup where orientation of the cup and part must remain constant.



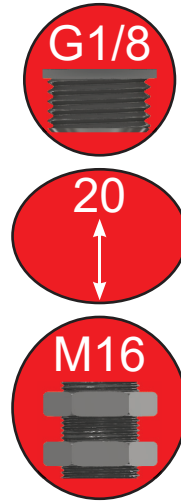
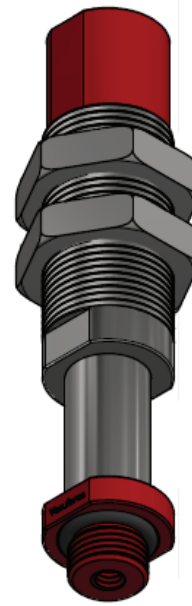
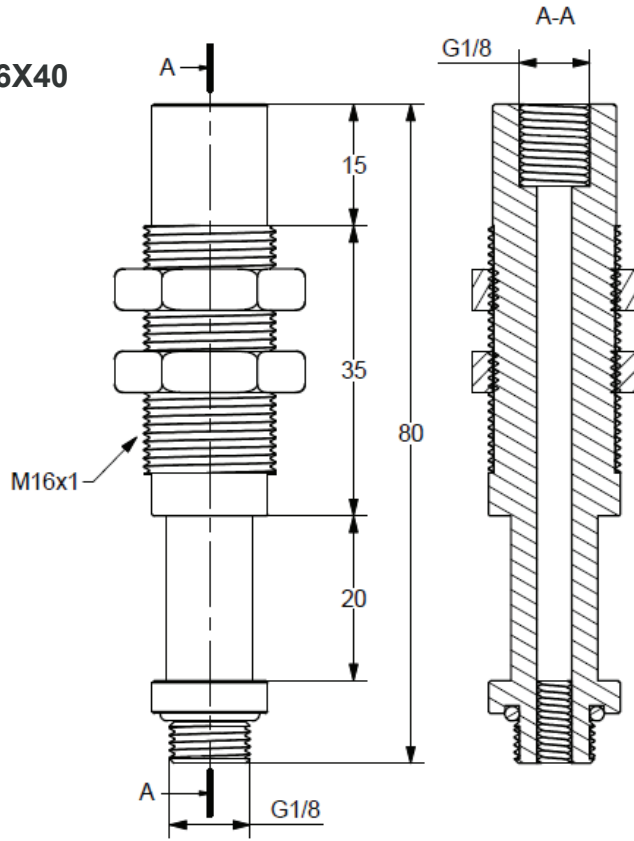
Rotating Models



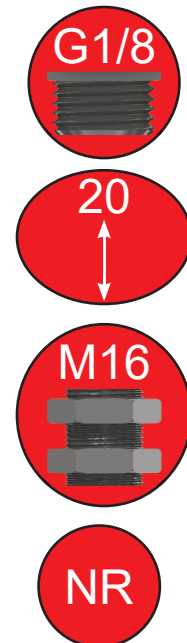
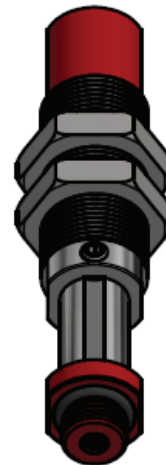
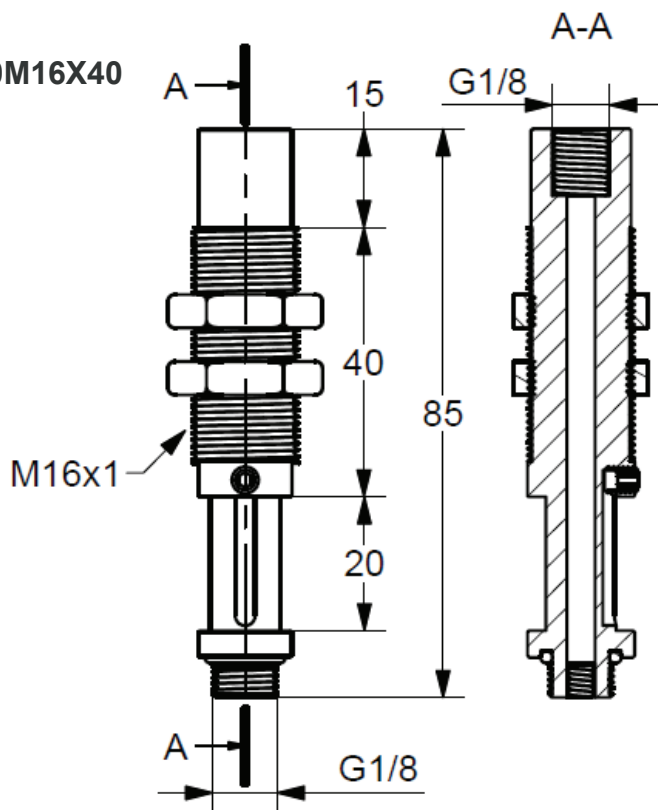
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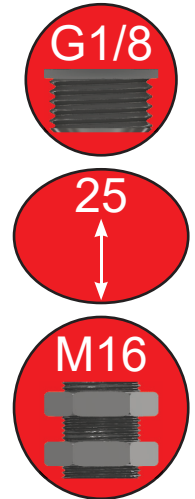
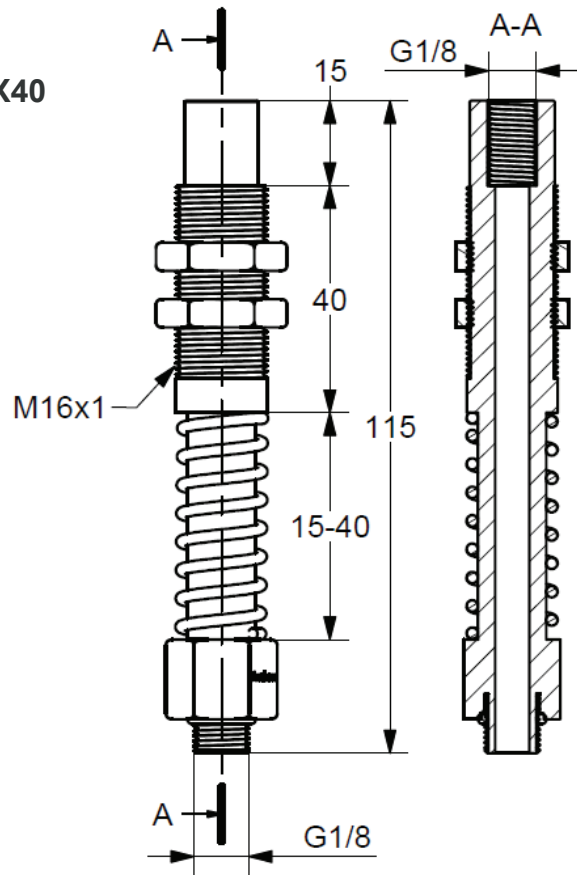
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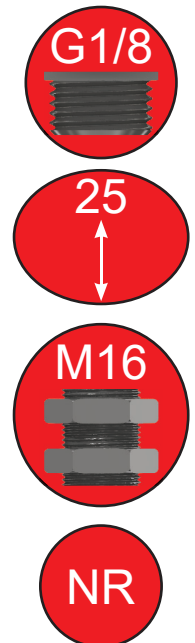
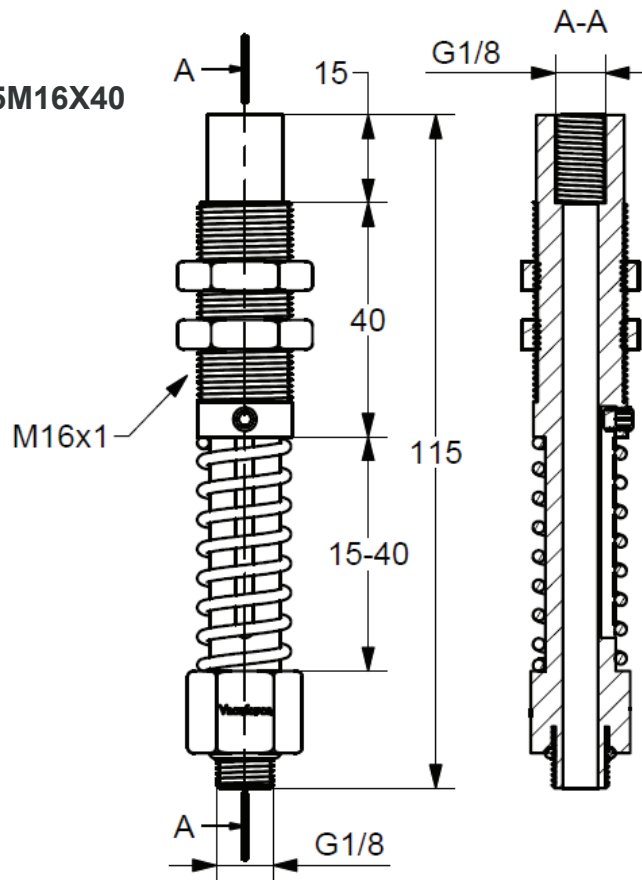
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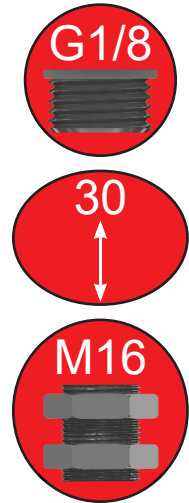
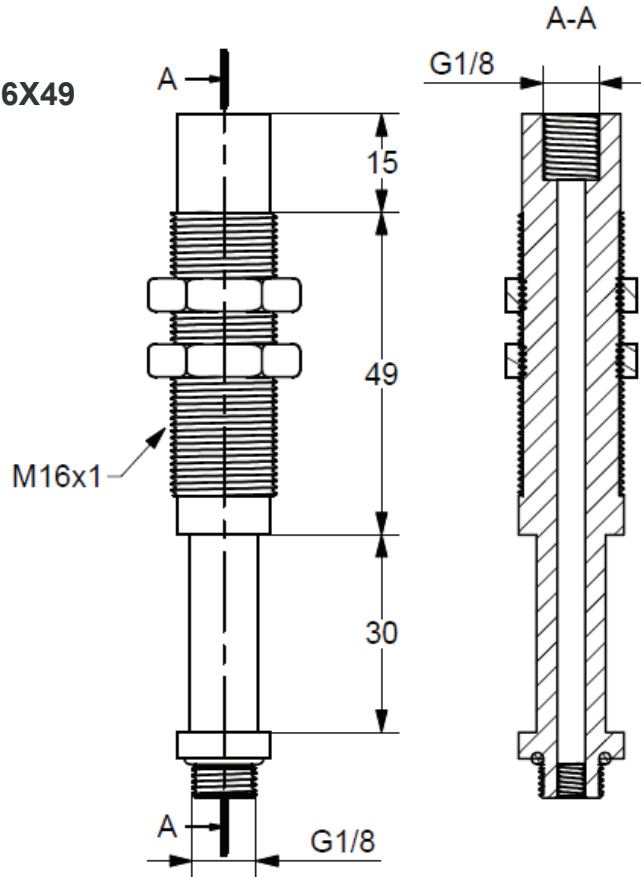
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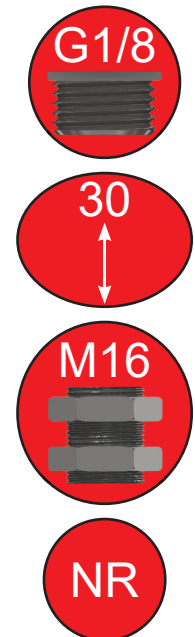
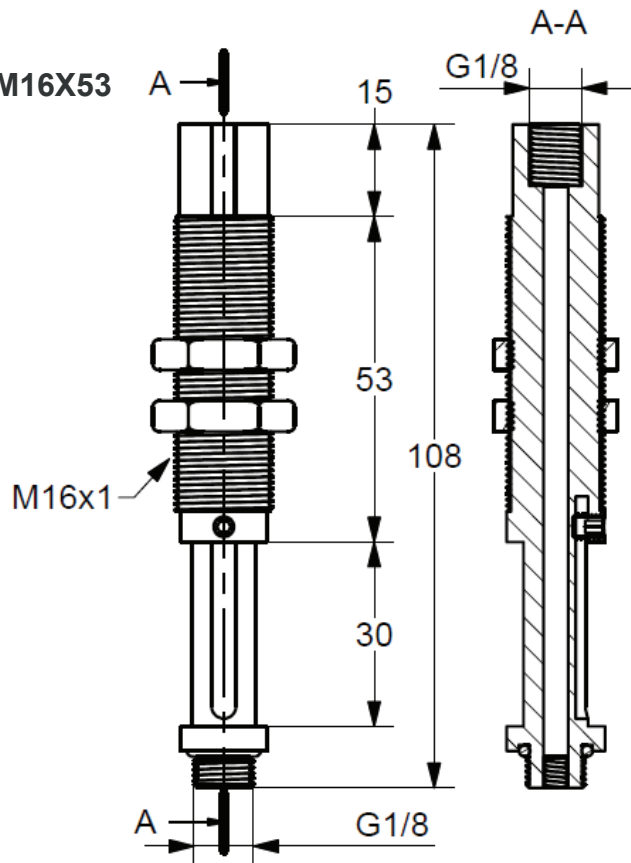
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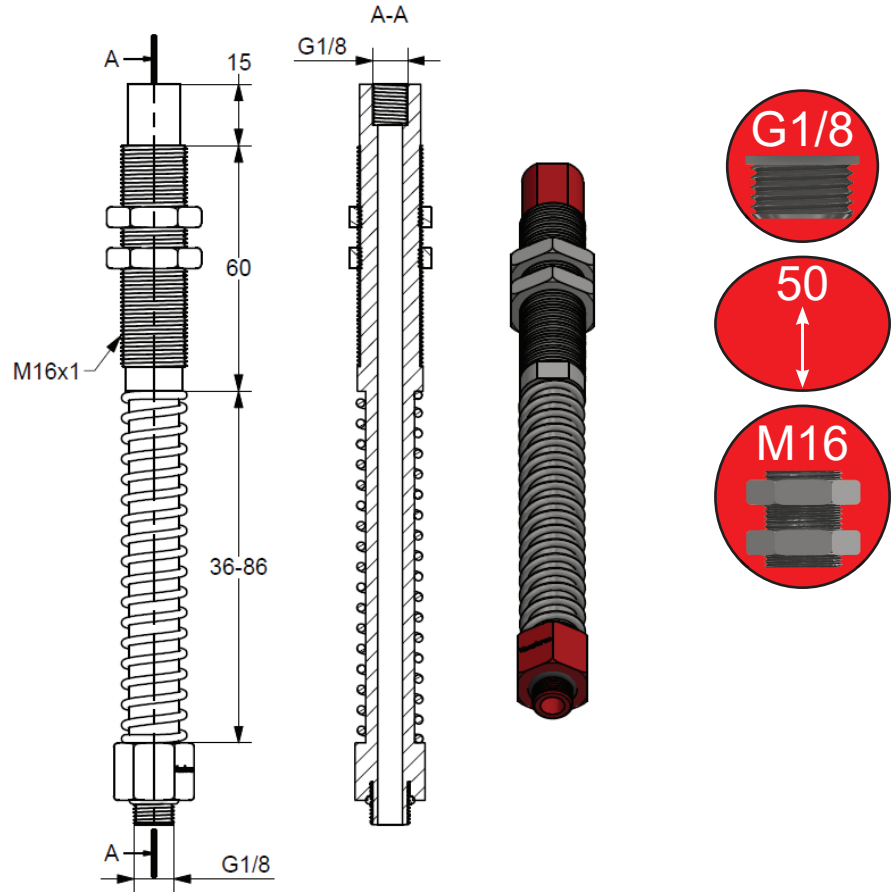
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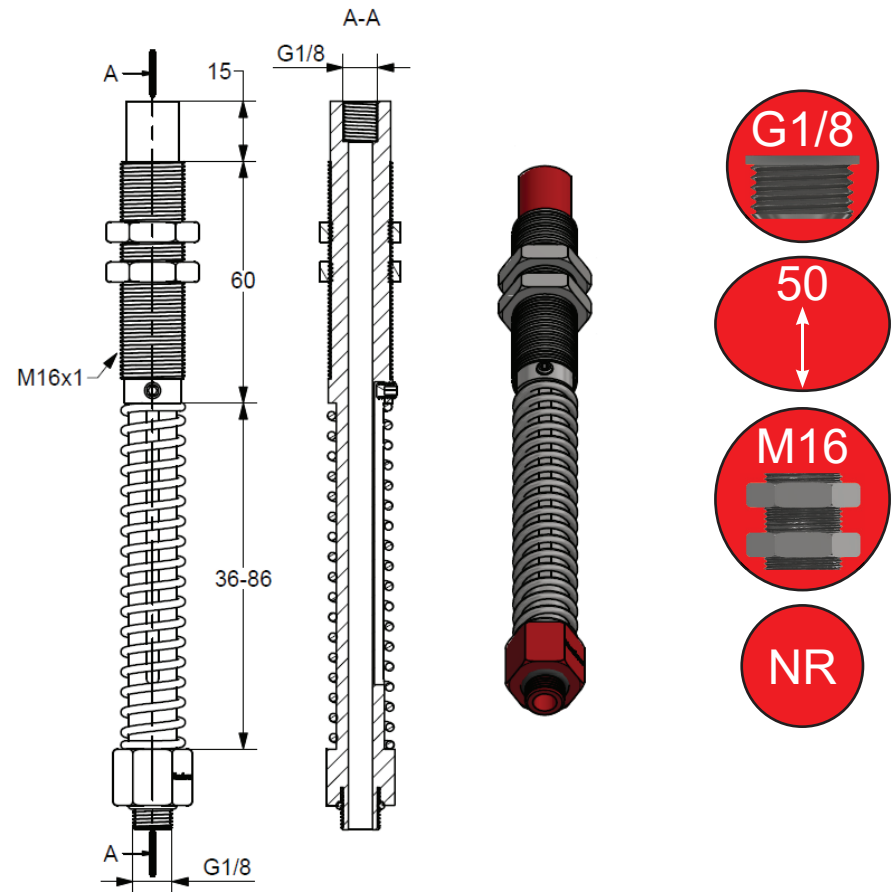
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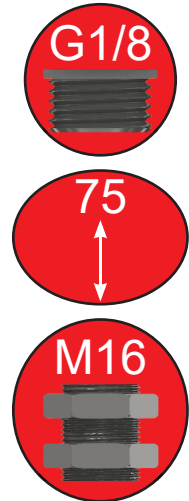
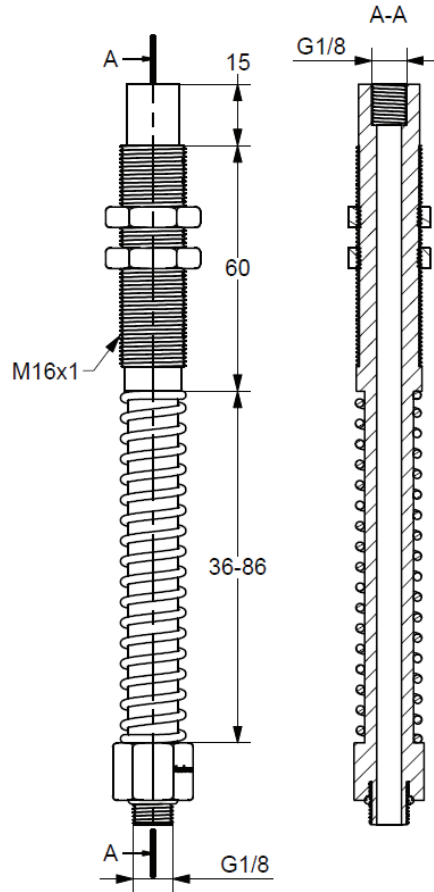
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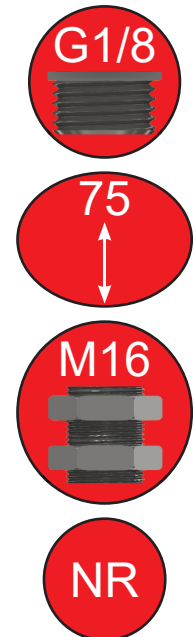
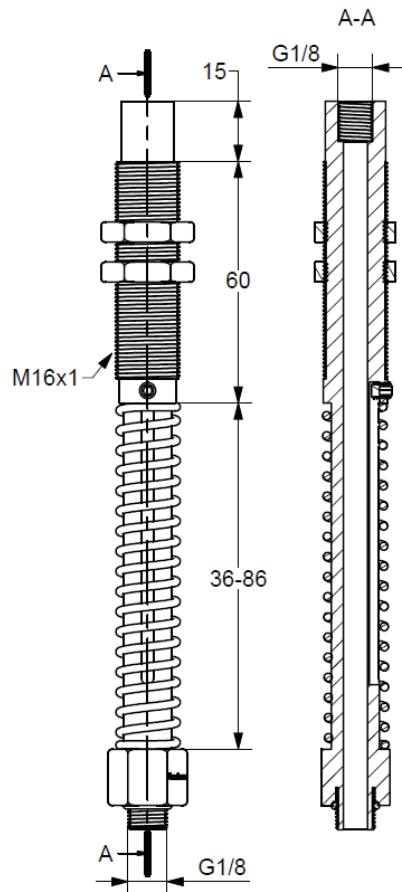
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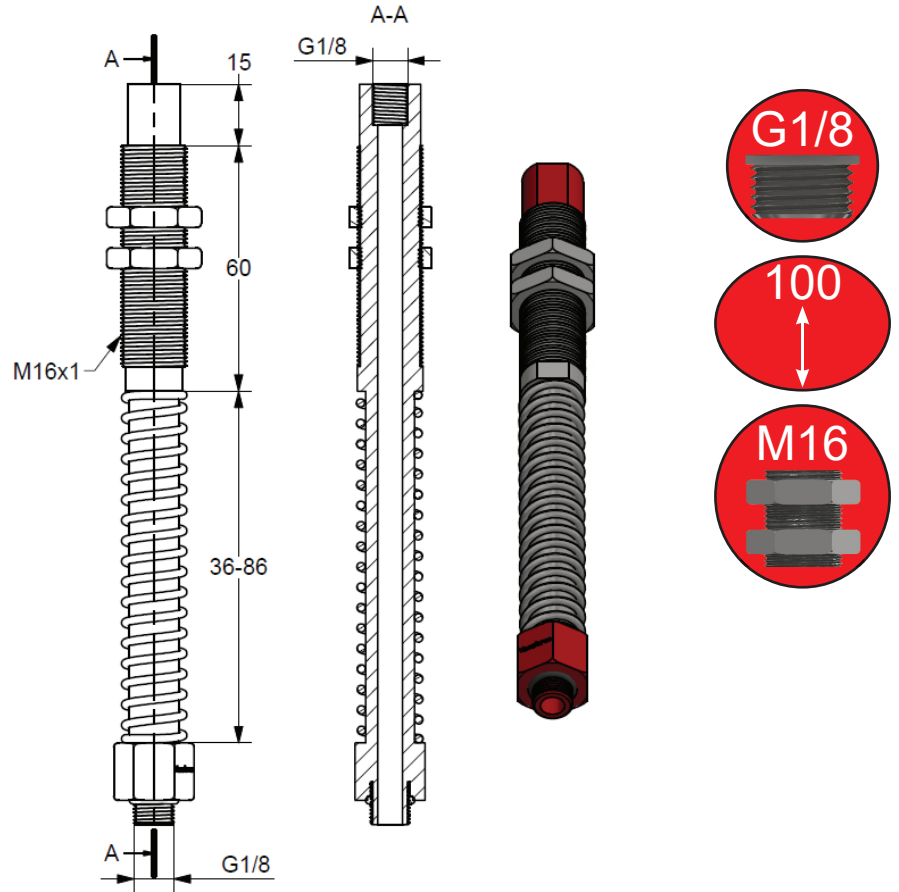
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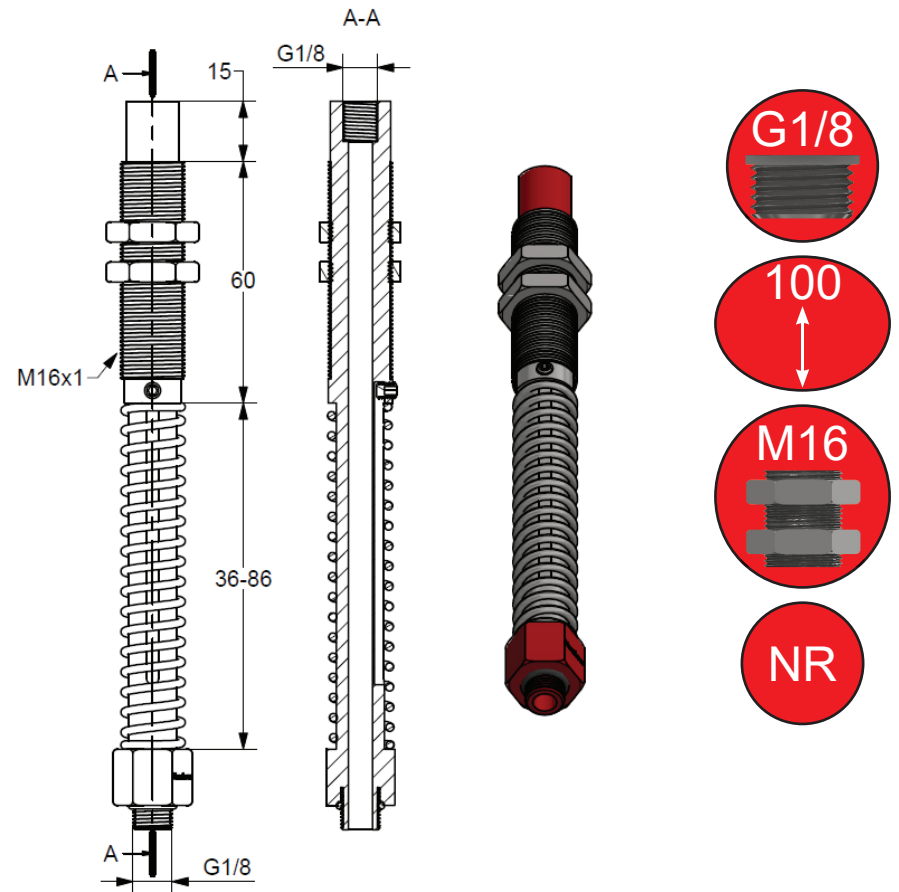
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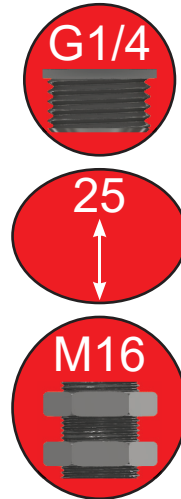
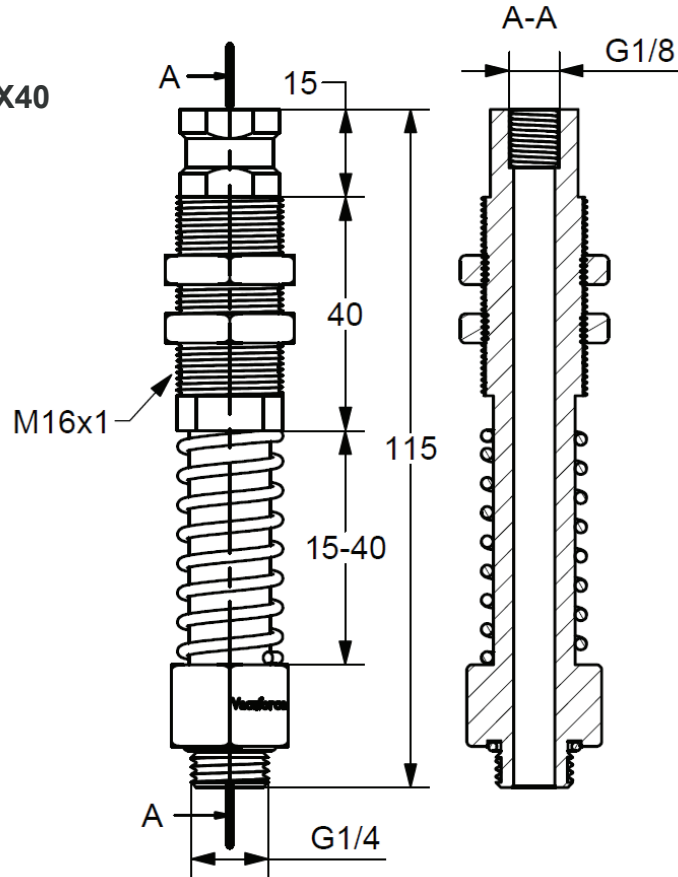
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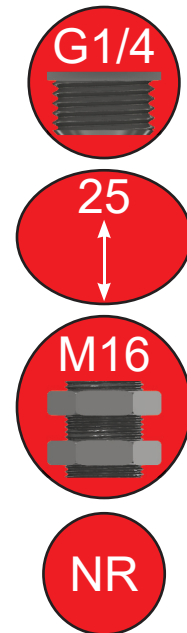
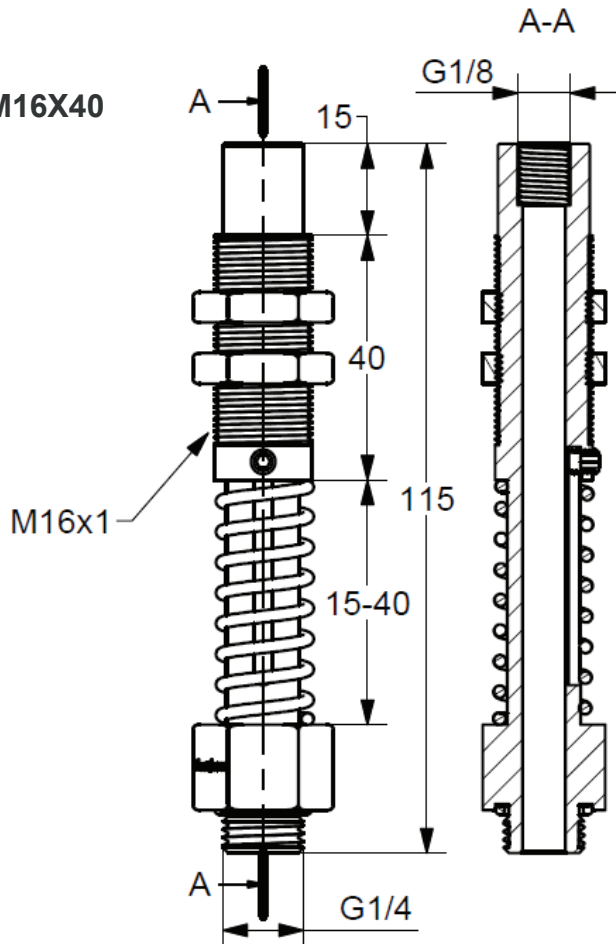
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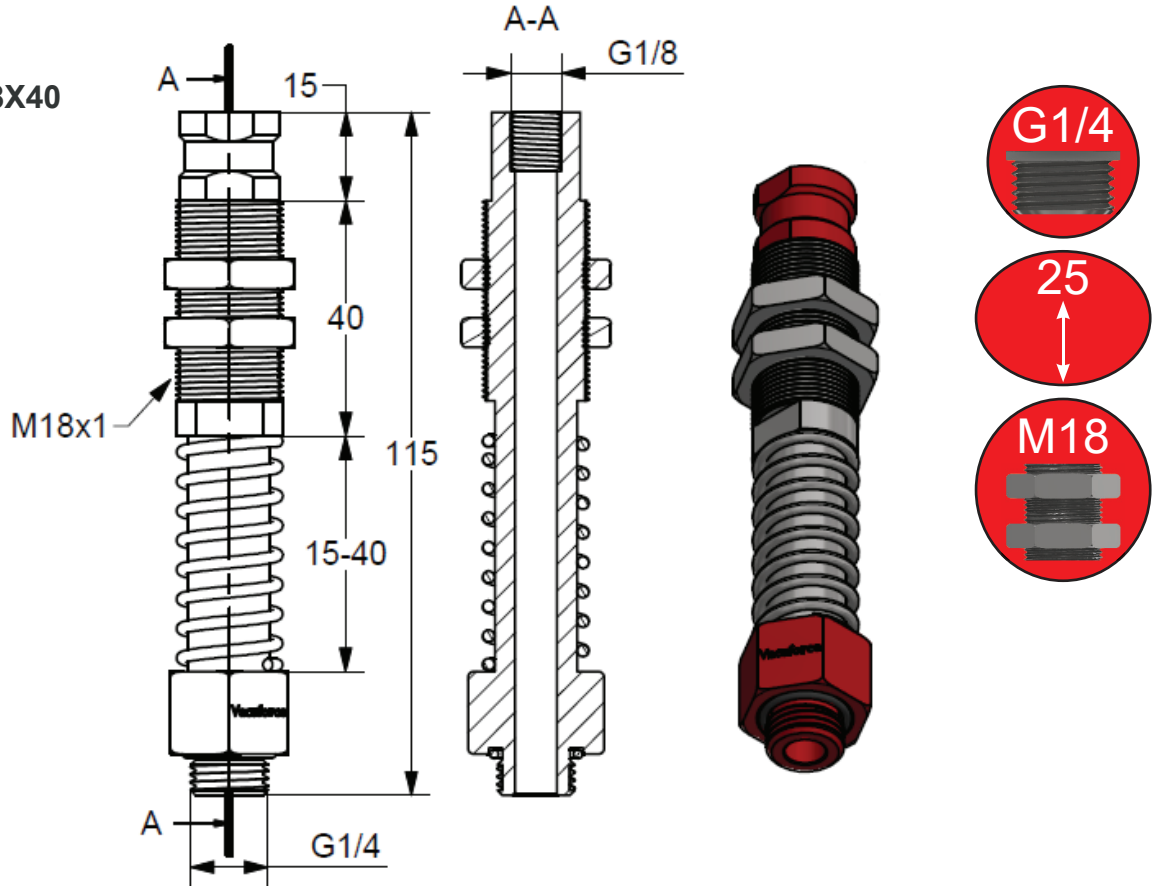
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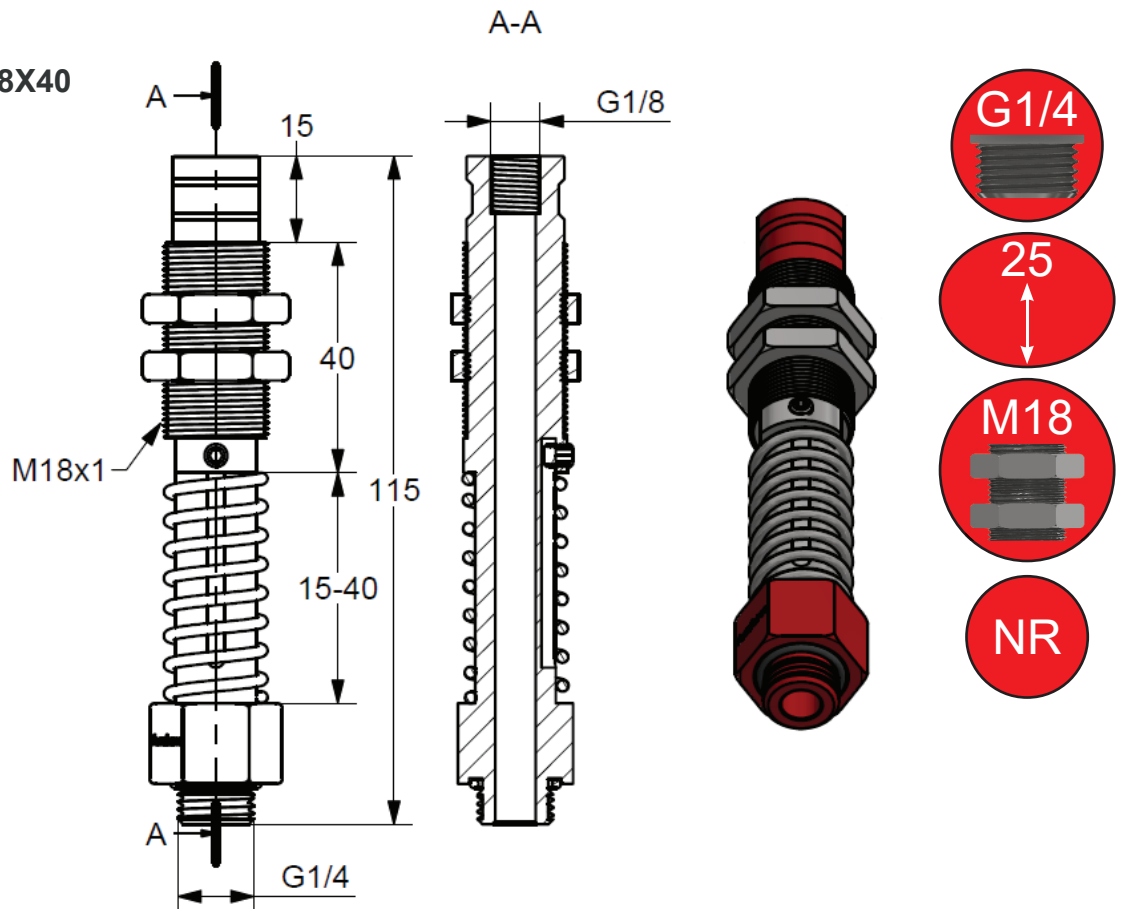
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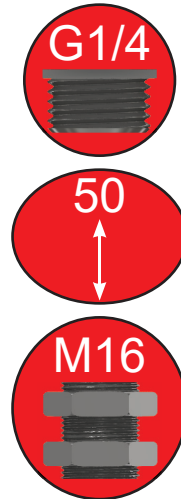
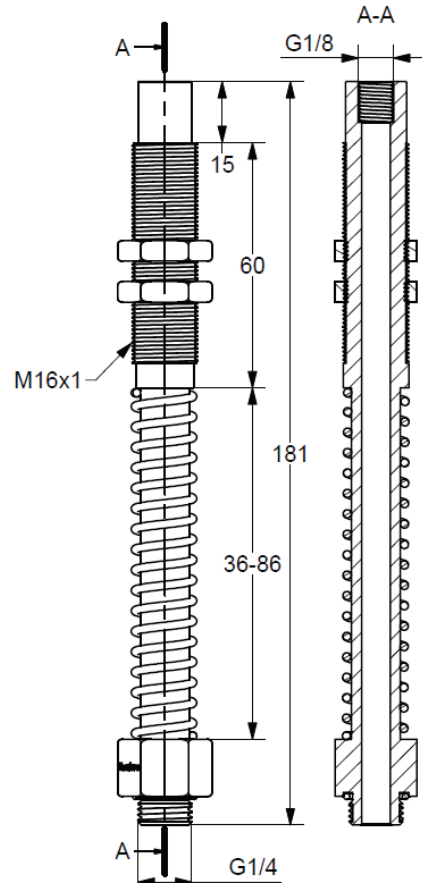
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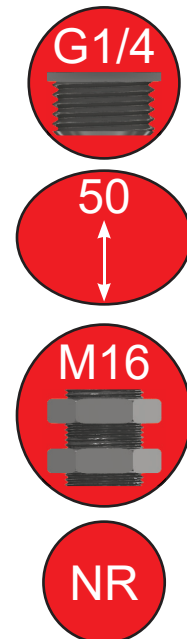
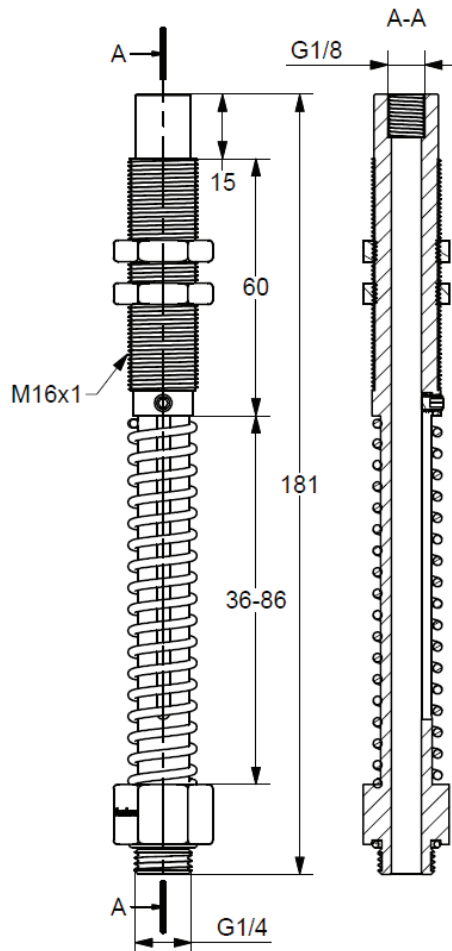
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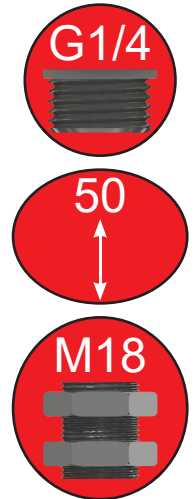
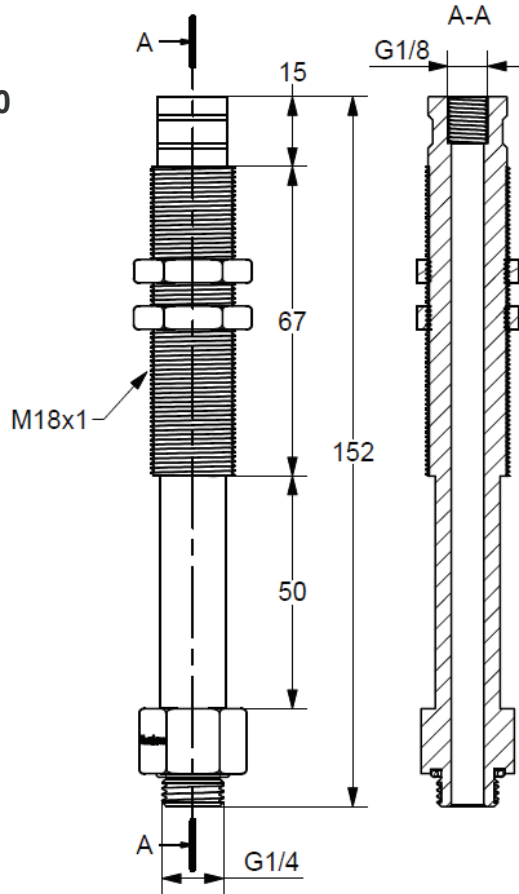
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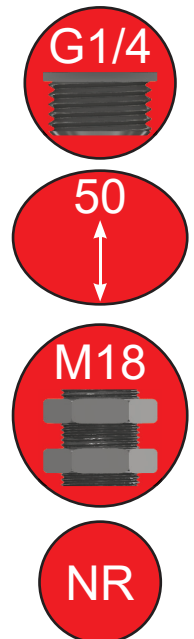
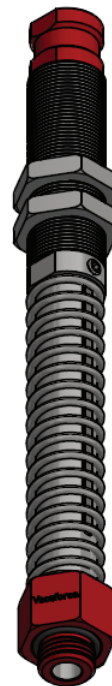
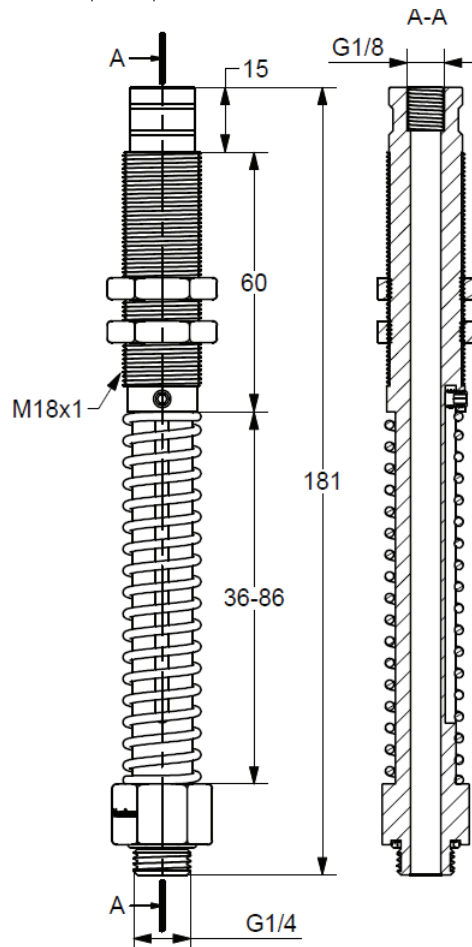
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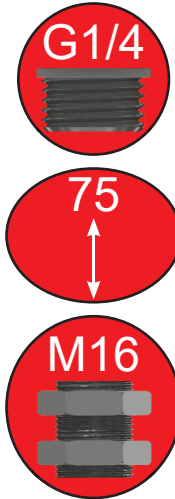
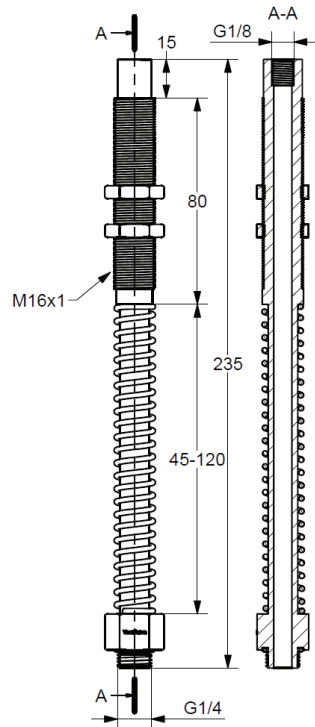
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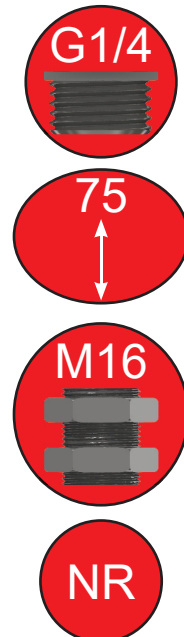
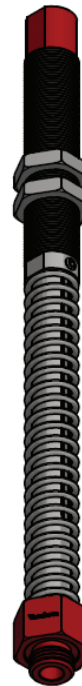
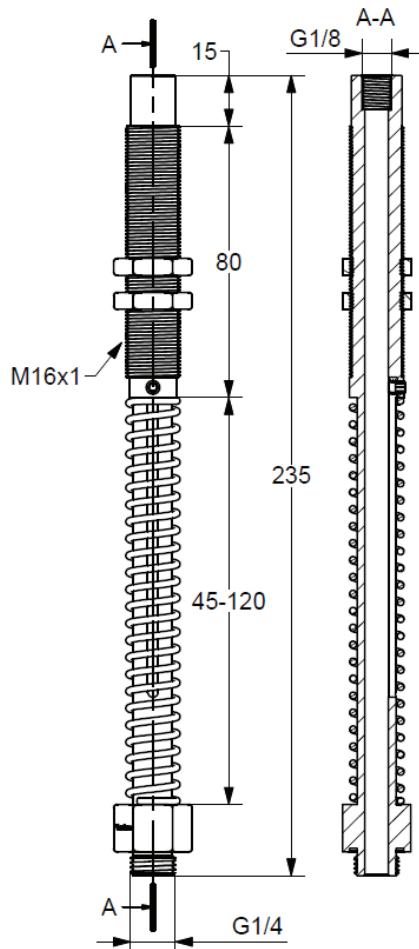
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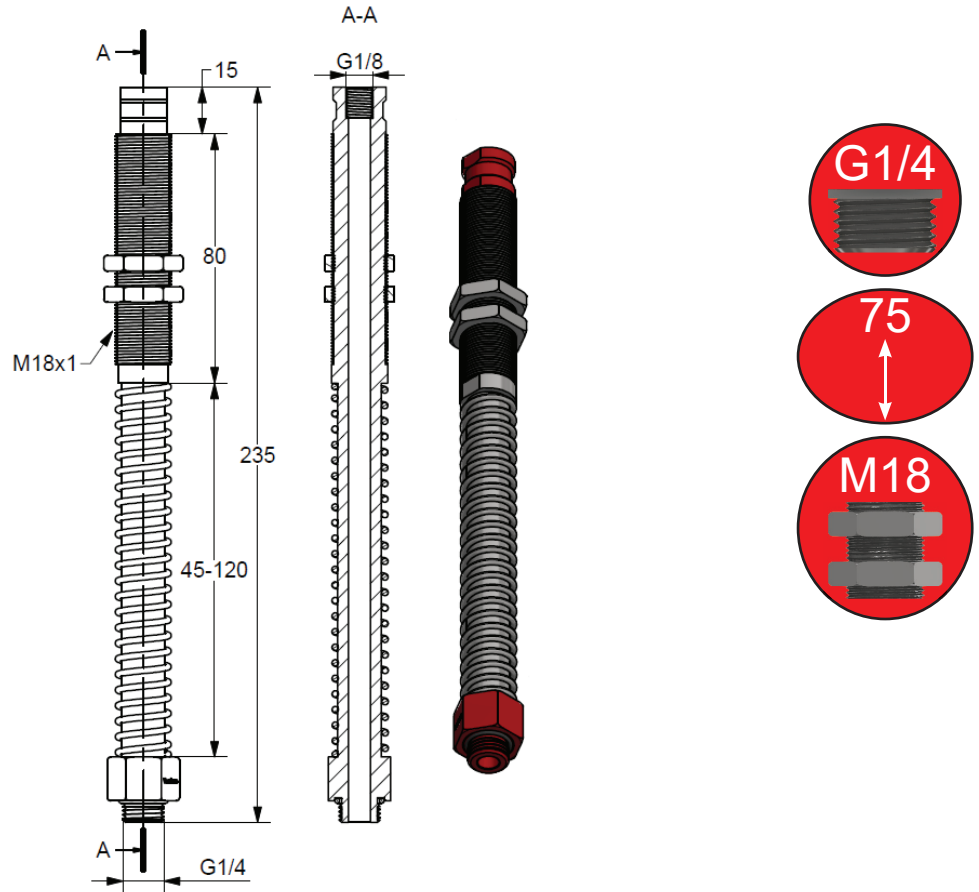
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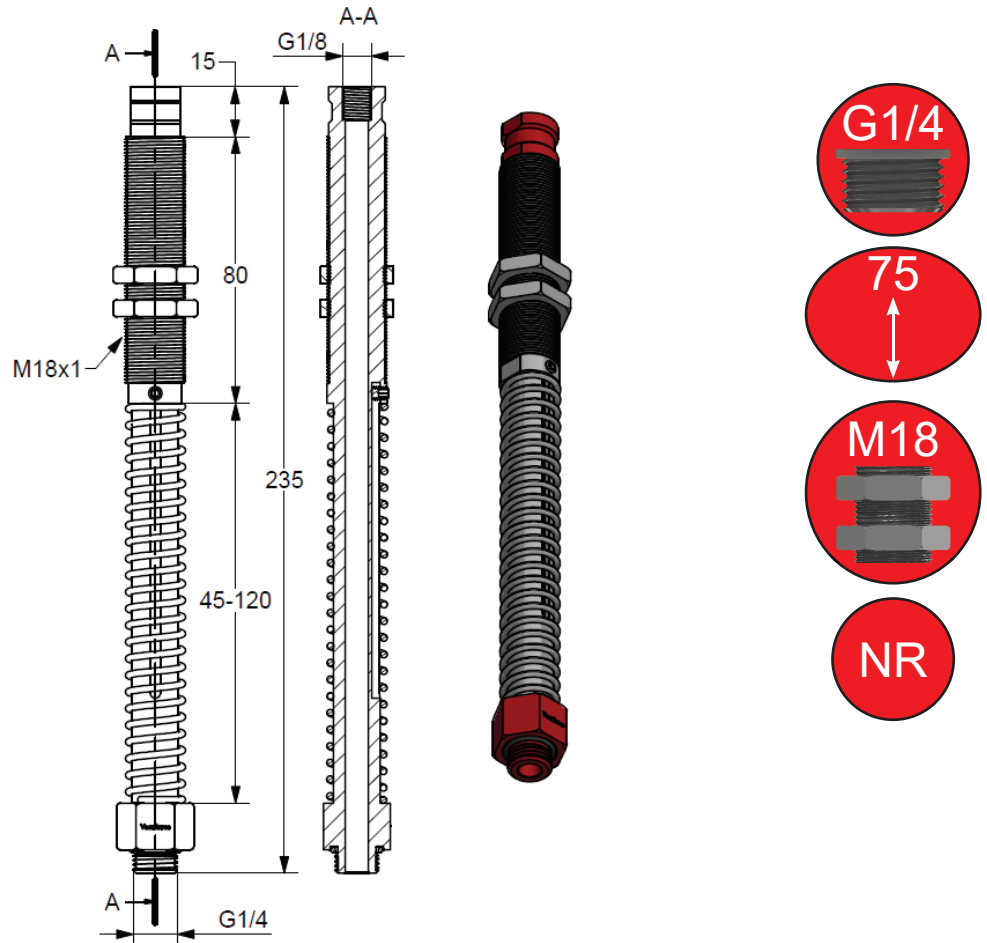
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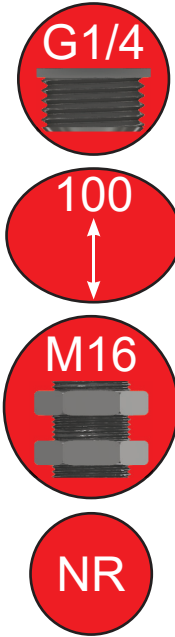
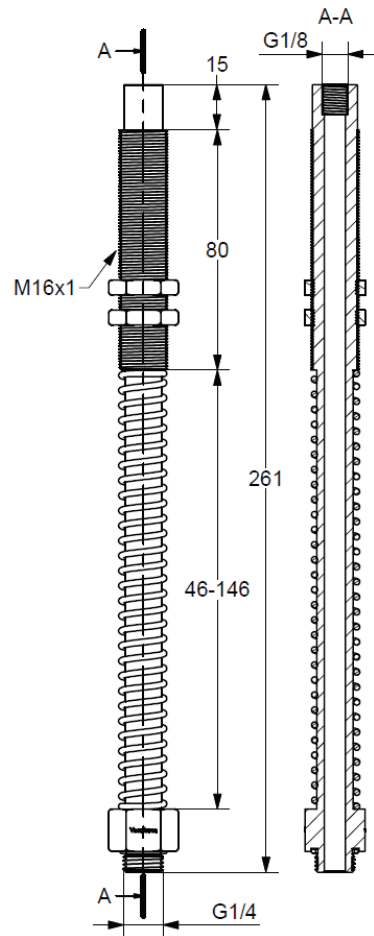
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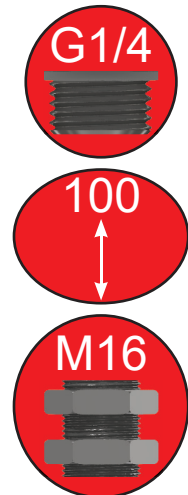
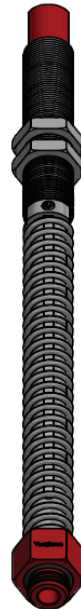
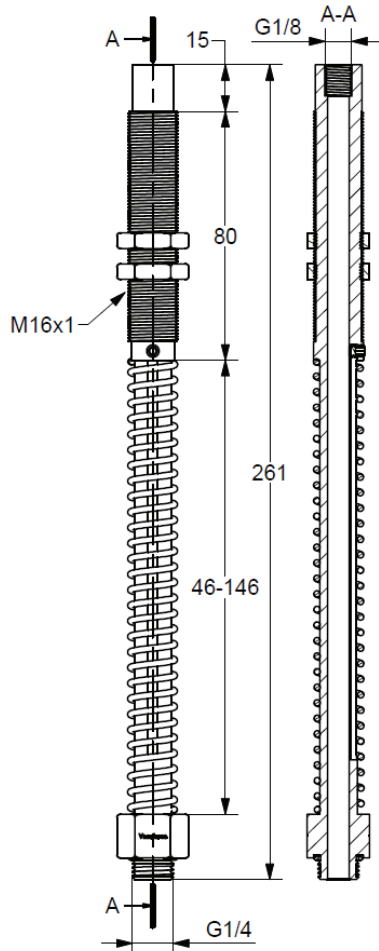
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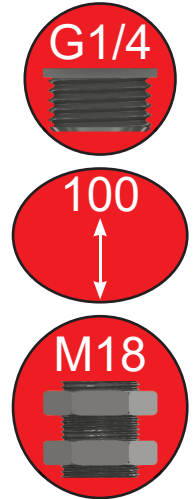
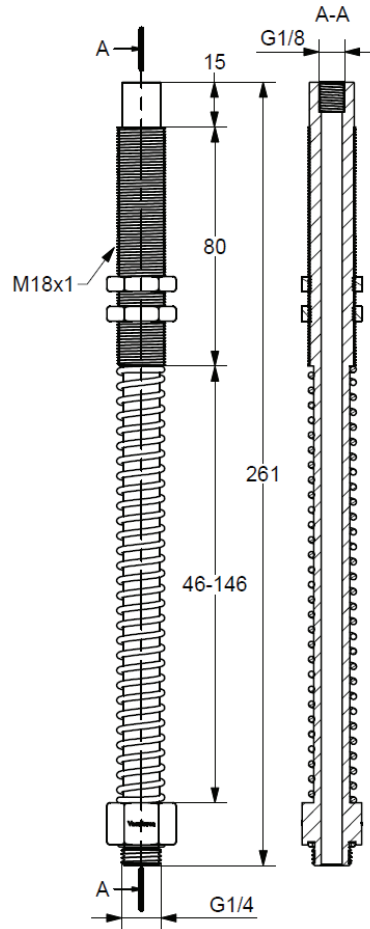
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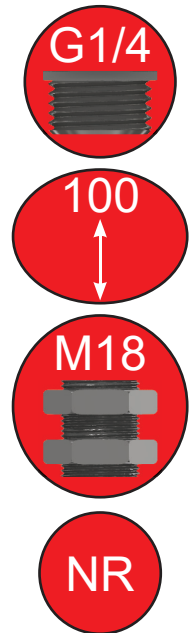
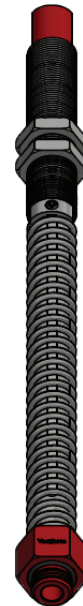
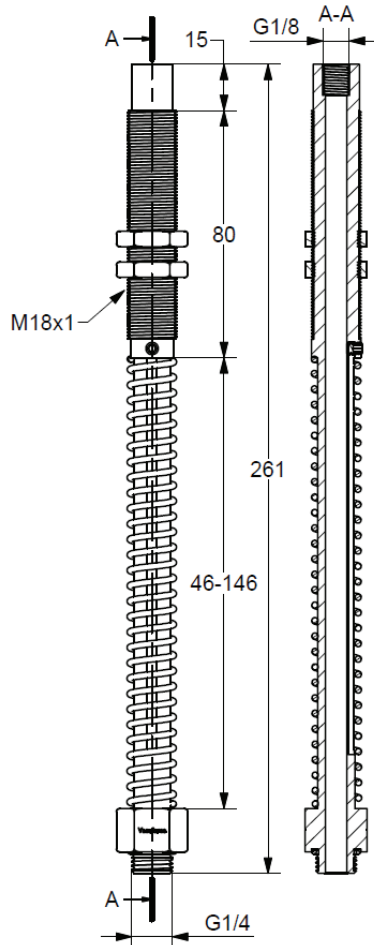
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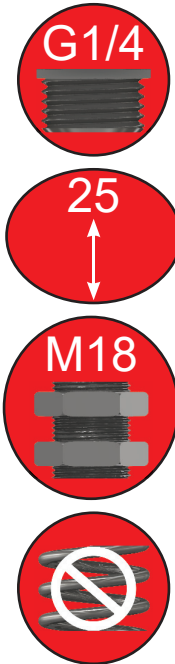
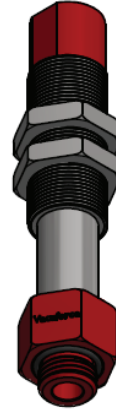
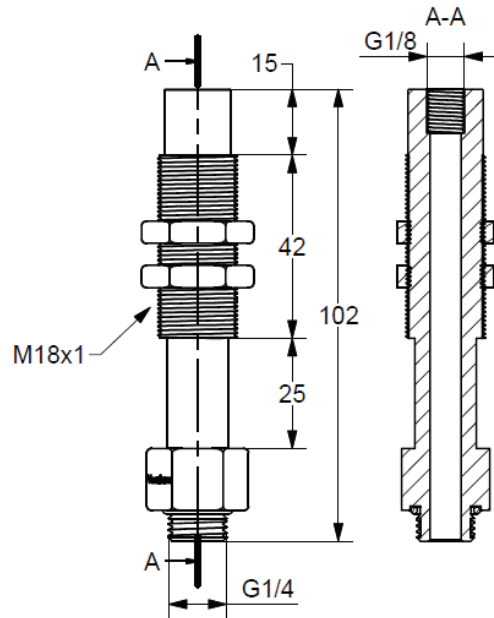
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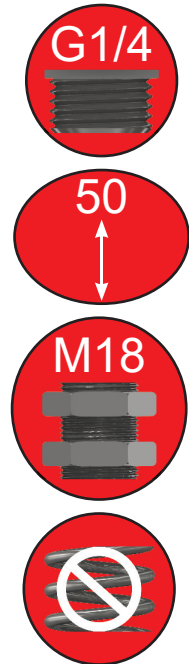
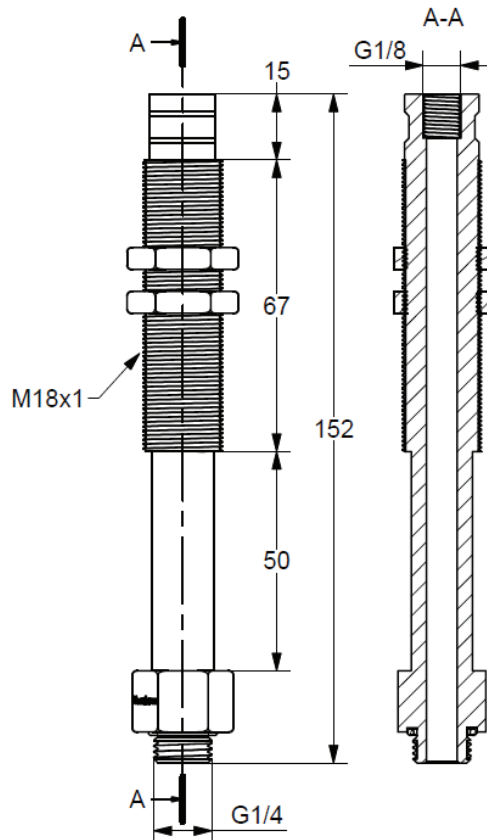
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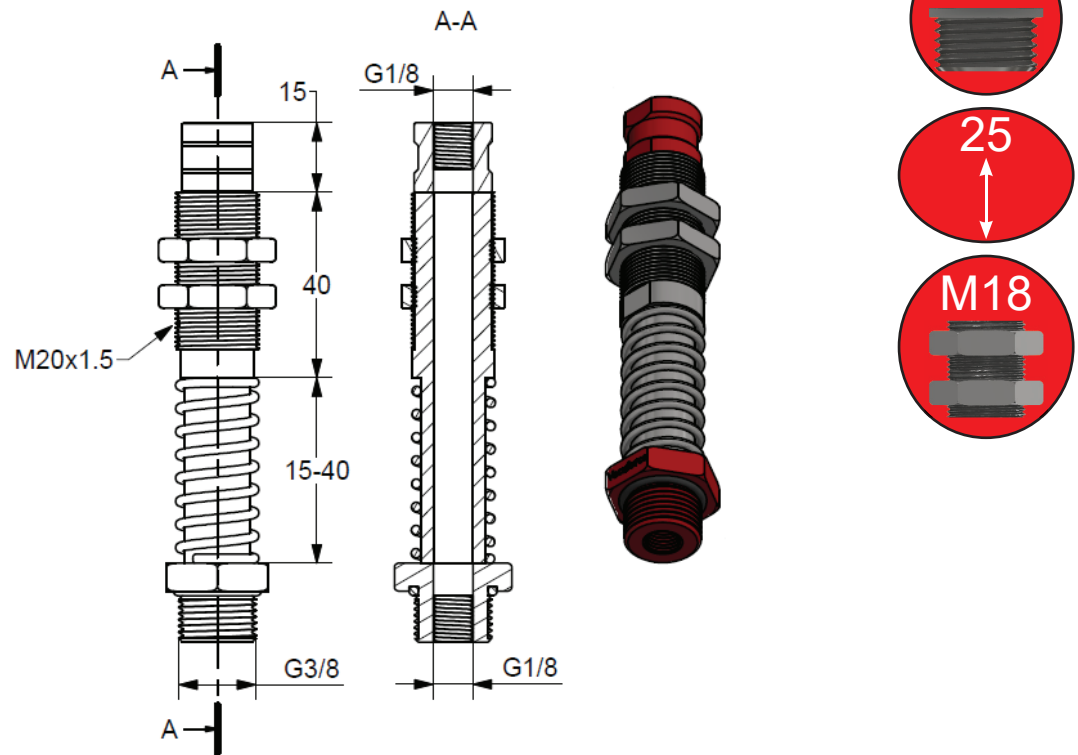
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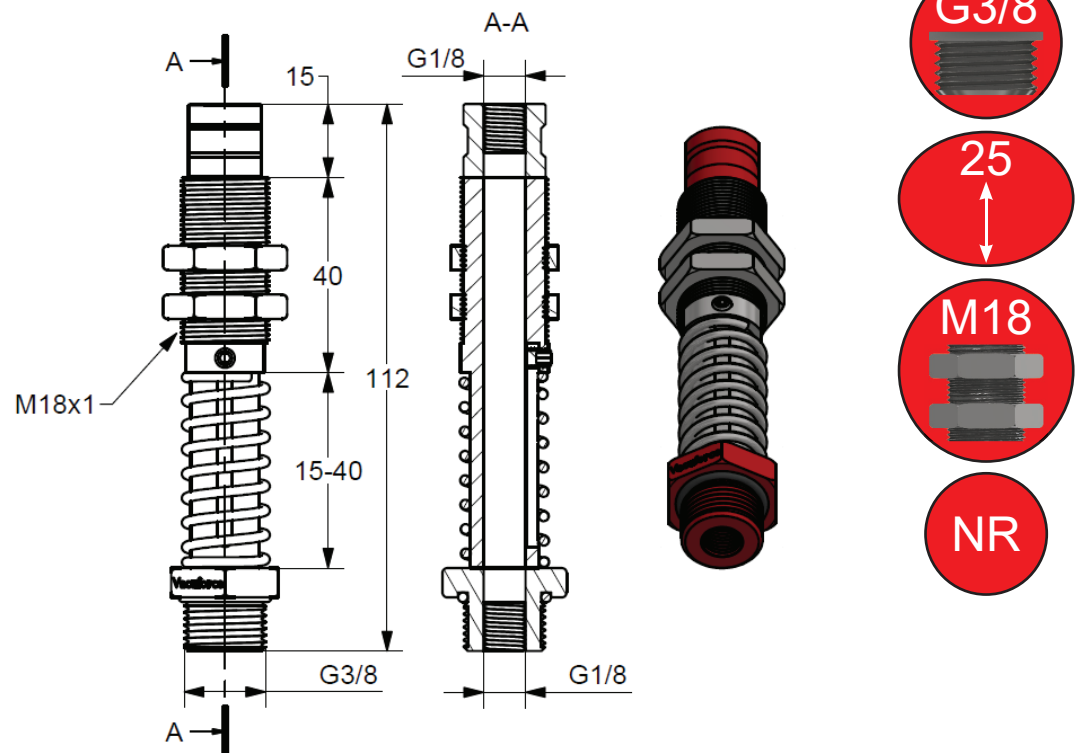
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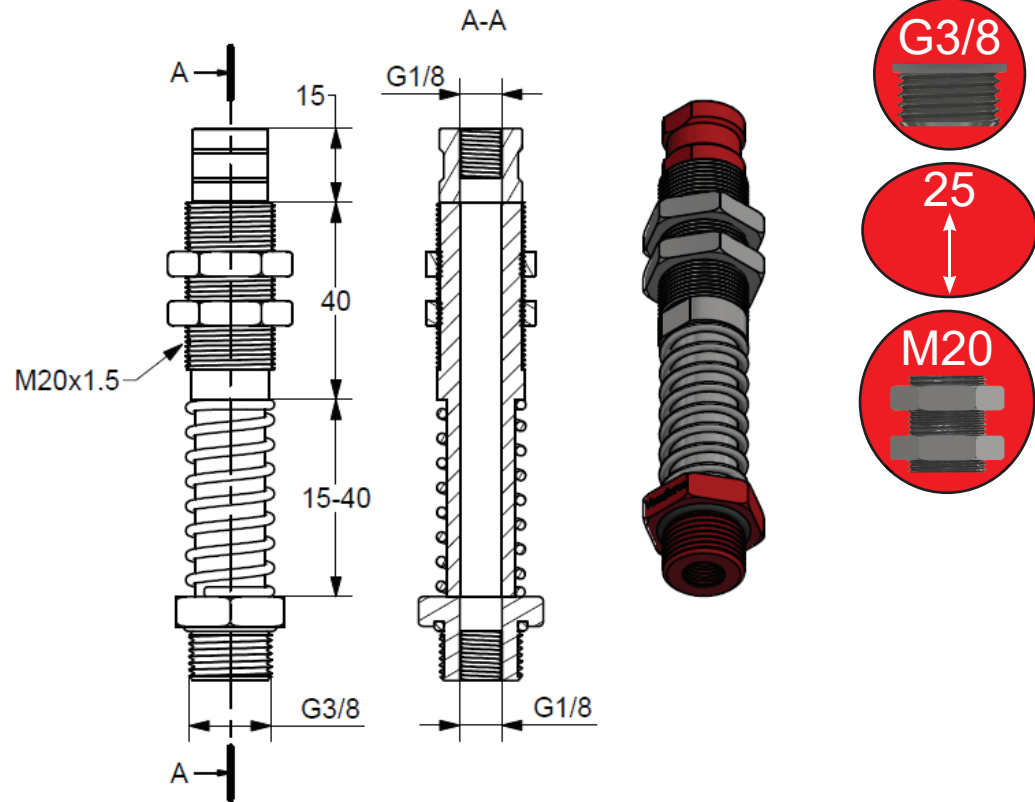
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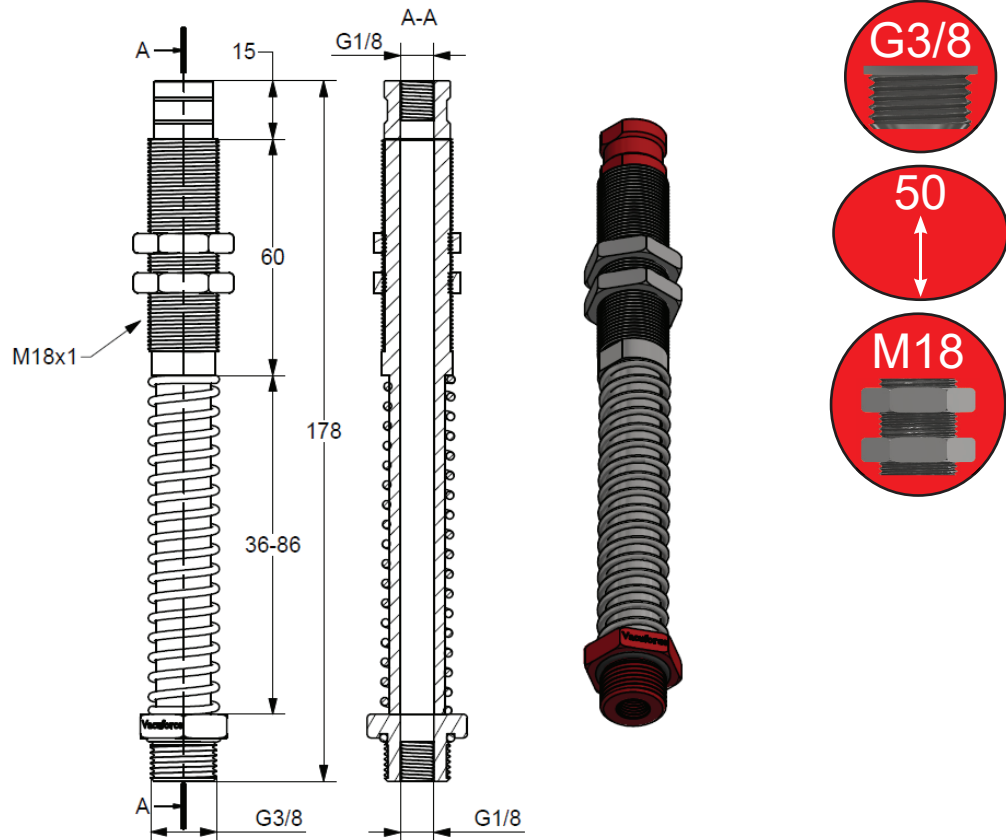
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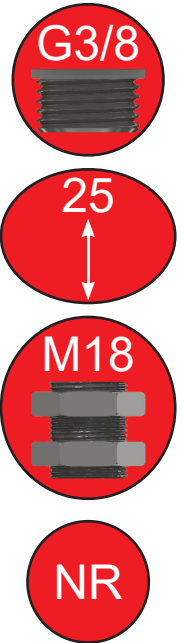
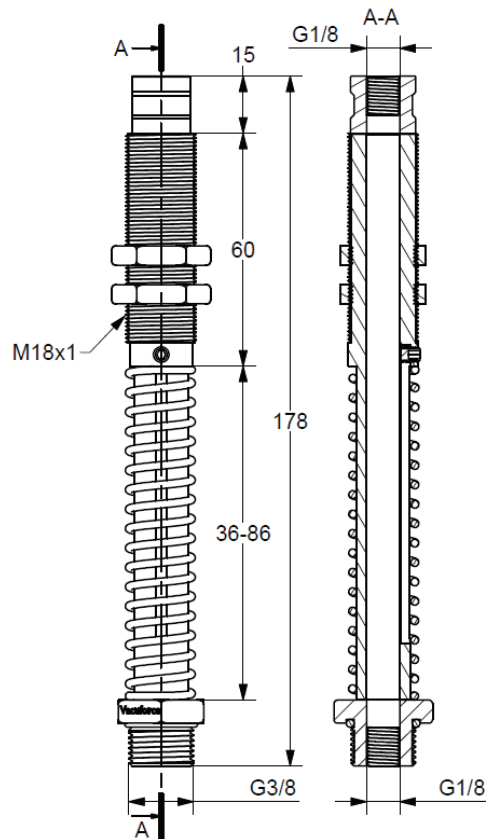
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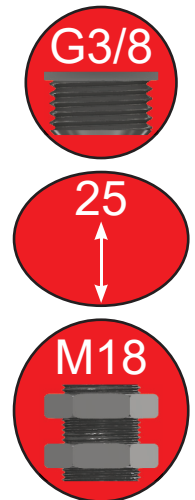
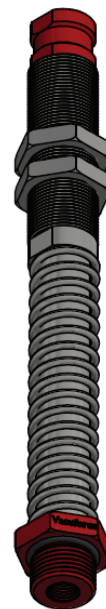
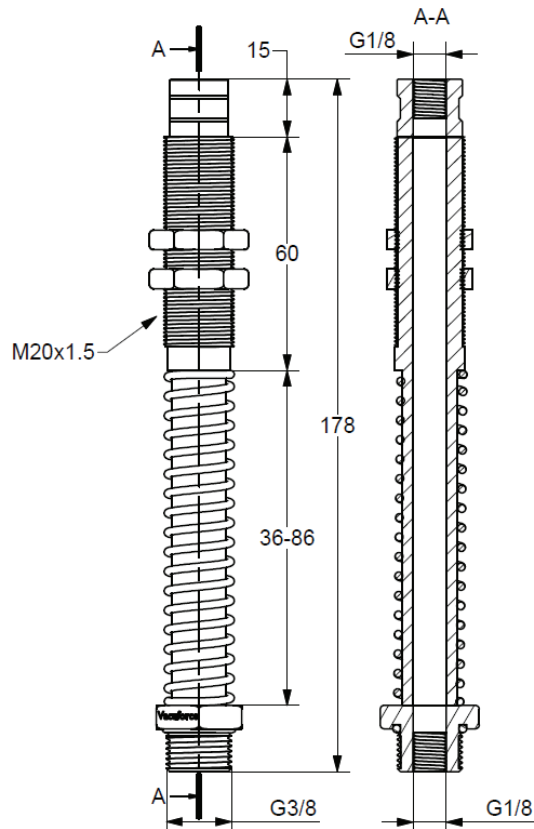
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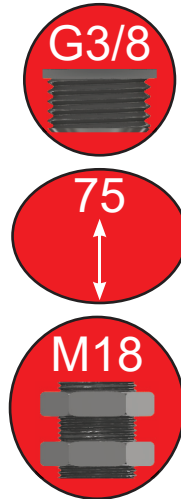
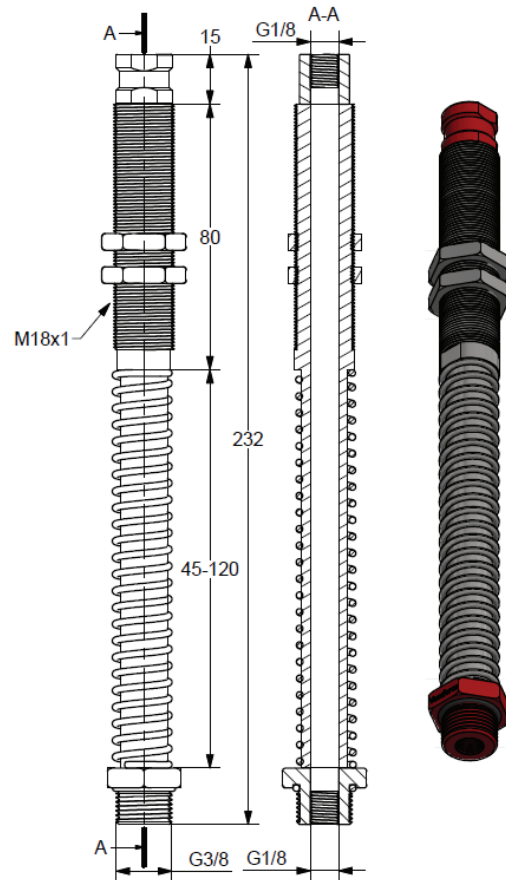
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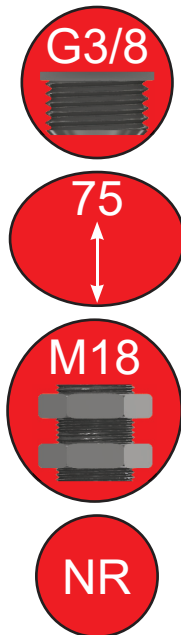
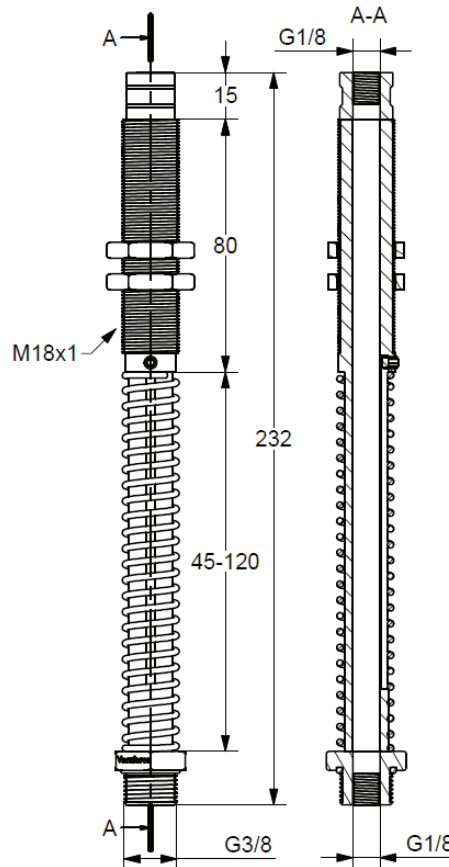
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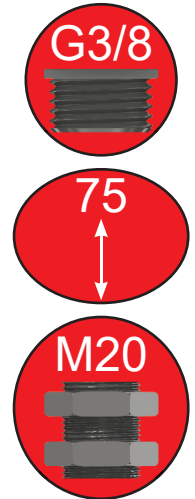
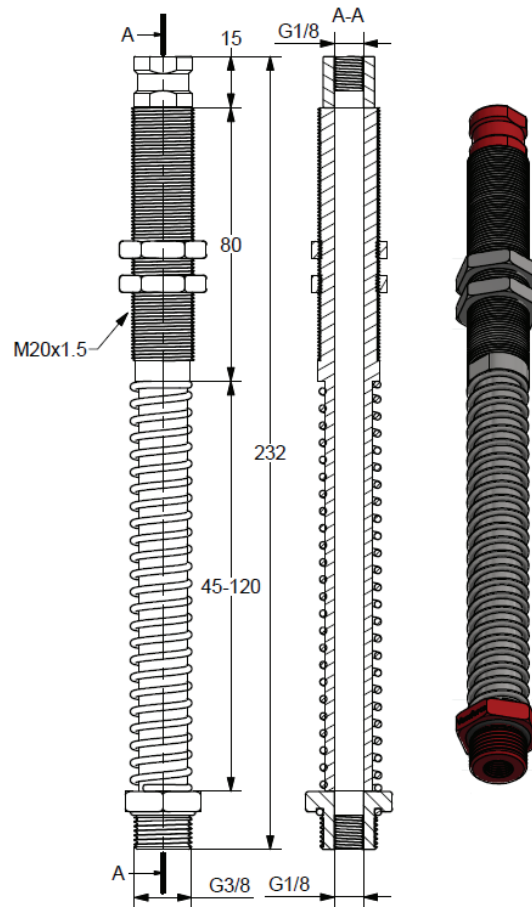
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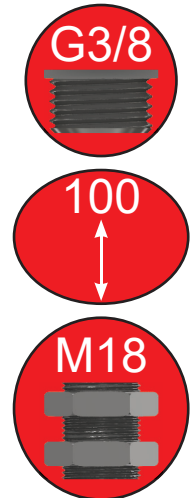
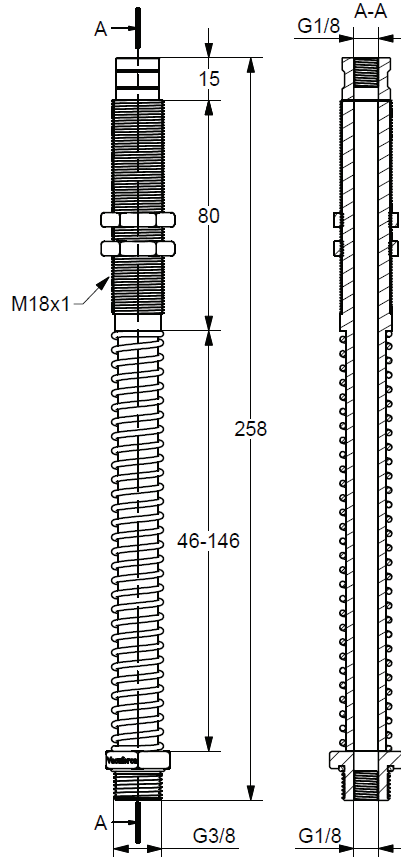
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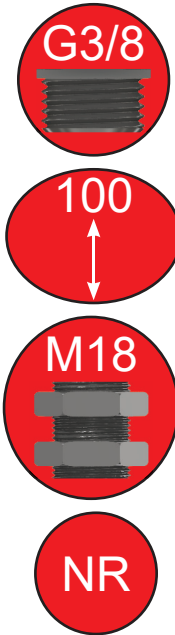
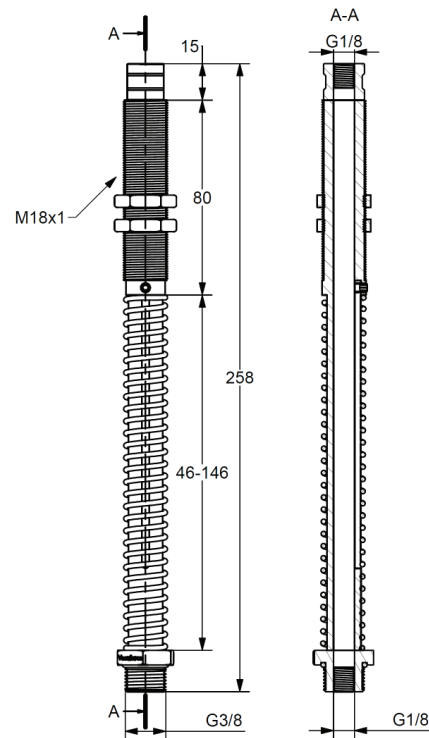


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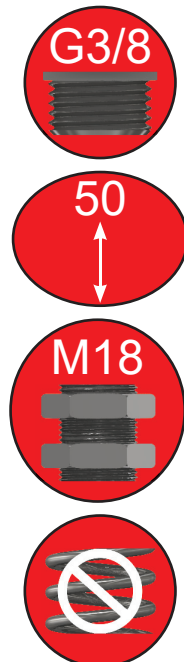
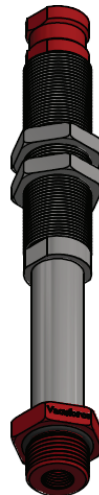
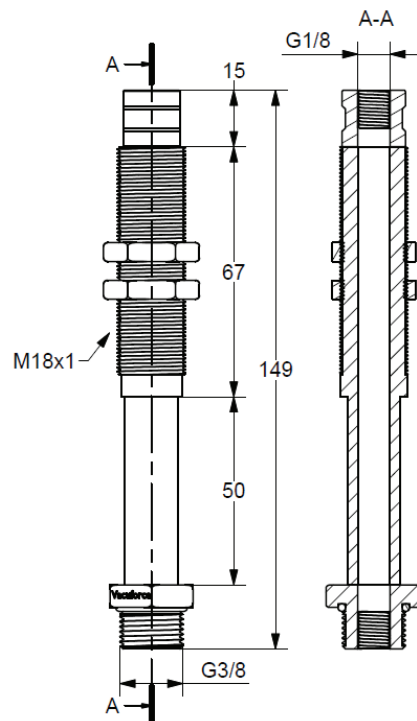


VACUUM CUP HOLDERS G3/8

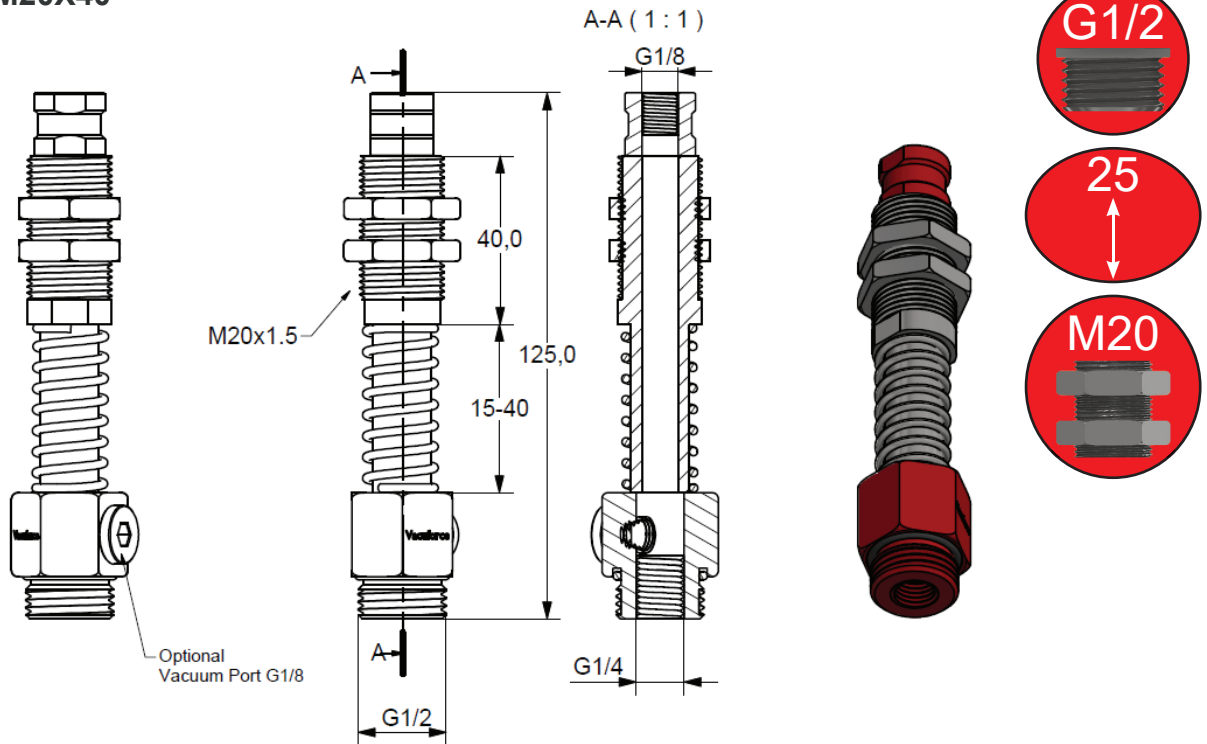
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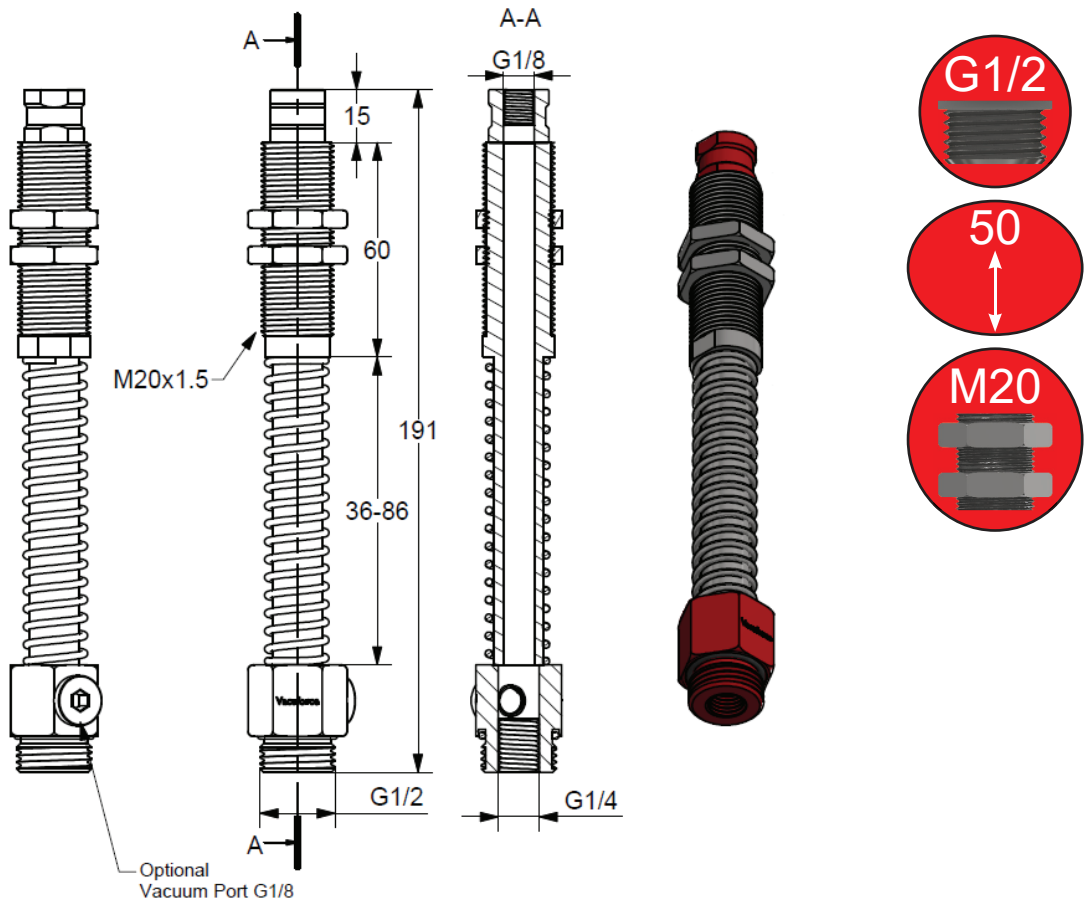
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VFLCEX1250M20X60



VFLCEX1275M20X80

