

# SEAL SCIENCE VACUUM CUPS

## STANDARD, CUSTOM AND RETROFIT DESIGNS

The designing of vacuum system suction cups to perform specific lifting and moving functions can be deceptively complex. Considerations must include the weight and surface texture of the items to be picked up, acceleration rates, space limitations, magnitude of the vacuum, and process temperatures.

Seal Science has expertise in the design, manufacture and testing of vacuum cups for all purposes. Plus, we can do this on a quick-turnaround basis.

| VACUUM CUP MATERIAL LIST* |                                   |          |                   |              |
|---------------------------|-----------------------------------|----------|-------------------|--------------|
| CODE                      | DESCRIPTION                       | HARDNESS | TEMPERATURE RANGE | COLOR        |
| CS4501                    | Long-Life Wear-Resistant Silicone | 45A      | -60°F to +400°F   | Red          |
| CS4502                    | Long-Life Wear-Resistant Silicone | 45A      | -60°F to +400°F   | Opaque       |
| CS6014                    | Long-Life Wear-Resistant Silicone | 60A      | -60°F to +400°F   | Burnt Orange |
| CS5014                    | High-Temperature Silicone         | 50A      | -60°F to +450°F   | Red          |
| CS5500                    | Conductive Silicone               | 55A      | -80°F to +400°F   | Black        |
| CS3007                    | Long-Life Wear Resistant Silicone | 30A      | -60°F to +400°F   | Opaque       |
| CS6016                    | Long-Life Wear Resistant Silicone | 60A      | -60°F to +400°F   | Clear        |
| CC5006                    | Tack-Free Long-Wear Chloroprene   | 50A      | -40°F to +225°F   | Black        |
| CP4502                    | ESD Limiting Plastic Blend        | 45A      | -40°F to +250°F   | Gray         |
| CS5024                    | Long-Life Wear-Resistant Silicone | 50A      | -50°F to +392°F   | Clear        |
| CPI7001                   | Polyurethane Blend                | 70A      | -20°F to +180°F   | Purple       |
| CVI6001                   | Vinyl                             | 60A      | 0°F to +150°F     | Purple       |

## HOW TO ORDER

Choose the mounting style, configuration, and size that meet your needs from those depicted in this catalog. Then pick a material that meets your requirements; i.e., hi-temp, non-marking, ESD, etc.

Example: **VA - 15 - CS4501**

Code CS4501: Long-life wear-resistant silicone, red color, with -60°F/+400°F temperature range, and 45 Shore A hardness

From Parts Depicted Tip Diameter = .560 (15mm)

Vacuum cup with mounting style A

- NOTES: 1. The performance of vacuum cups depends on many subtle factors not in Seal Science's control. A logical test program is always recommended as we can assume no liability for use of these products.
2. Many materials with unique properties are available. Check with the factory regarding your specific needs.

## O-RINGS AND SEALS FOR VACUUM SERVICE

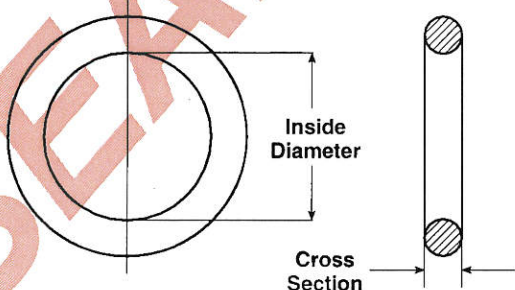
High vacuum causes elastomeric materials to lose weight and therefore volume by extracting certain absorbed gasses and other volatile components. This weight/volume loss coupled with air permeability of certain elastomer compounds suggests that fluorocarbon materials should be considered for most vacuum service.

Seal Science's fluorocarbon compounds have been compounded to assure maximum resistance to outgassing, extraction and compression set. Seal Science also offers all other o-ring and seal compounds conforming to most industrial, military and electrical specifications.

## O-RING ORDERING INFORMATION

Seal Science offers all Inch (AS568), Metric and JIS STD o-ring sizes. Please provide the standard size for the o-ring you need and remember to state the compound and hardness you want. Seal Science engineering can help you select the proper size and materials for you to test in your application. Please call us with dimensions or send us a sample of your items.

Sizes are generally stated as cross section x inside diameter.



Example:

|                  | Cross Section | x | Inside Diameter | STD Size Number |
|------------------|---------------|---|-----------------|-----------------|
| Inch STD size    | .070          | x | .239            | -010            |
| Metric size (mm) | 1.78          | x | 6.07            | 1.78 x 6.07     |
| JIS size (mm)    | 1.90          | x | 2.80            | P3              |

West Coast Office:

**1-800-576-SEAL**

E-mail: info@sealscience.com

Visit our website at [www.sealscience.com](http://www.sealscience.com)

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# SEAL SCIENCE VACUUM CUPS

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The items illustrated in this brochure are just a few examples of the styles of VACUUM CUPS, RINGS AND PADS we manufacture. Please consult SEAL SCIENCE with your requirements for availability.

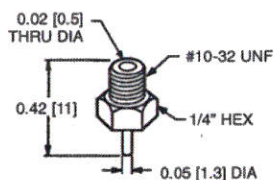
**SEE INSIDE BACK COVER FOR OTHER SEAL SCIENCE PRODUCTS.**

# SEAL SCIENCE VACUUM CUPS

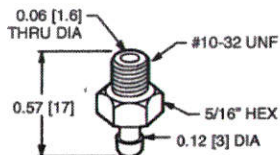
## STYLE VA - BARB TYPE

PART NUMBER / DASH NUMBER INDICATES APPROXIMATE LIP DIAMETER IN MILLIMETERS

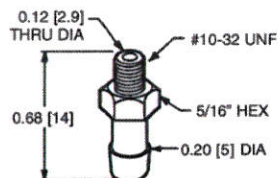
### BARB TYPES



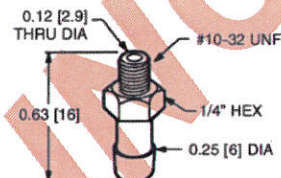
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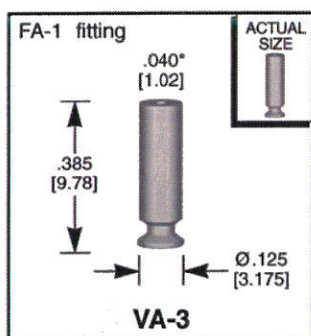
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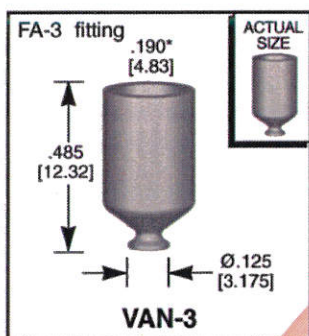
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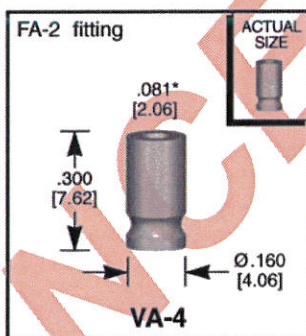
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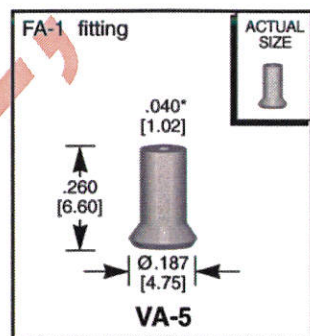
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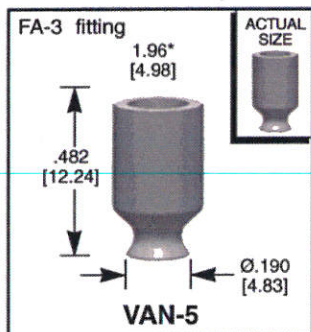
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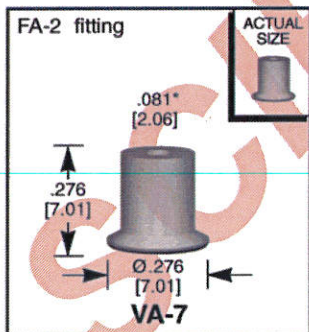
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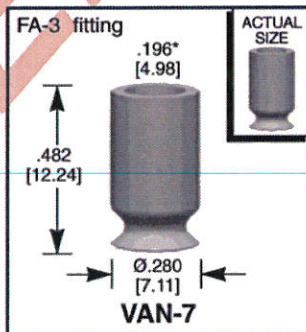
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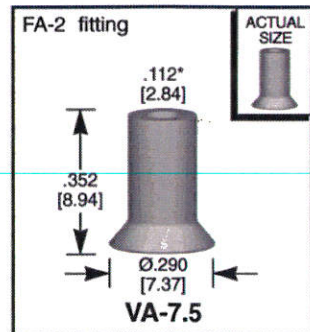
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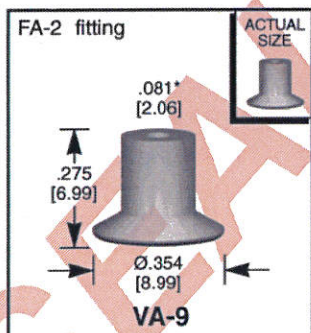
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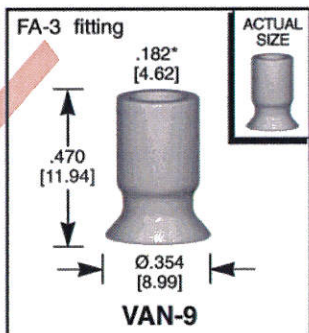
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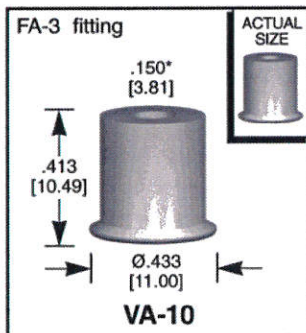
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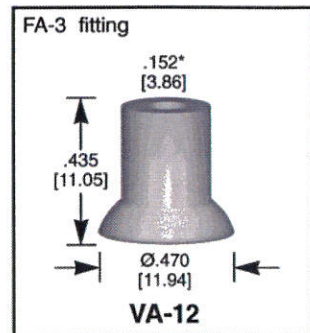
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VAN-9



VA-10



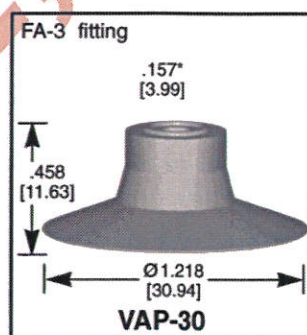
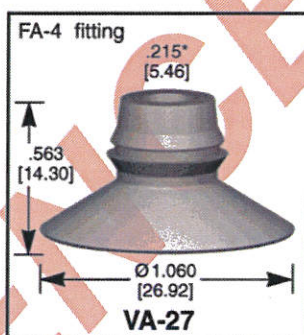
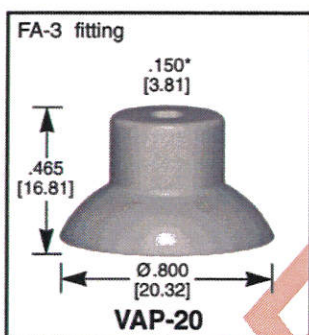
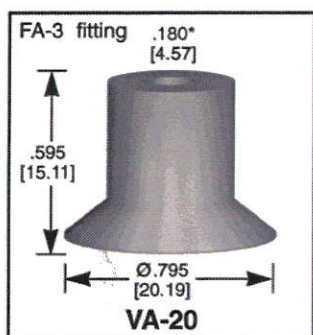
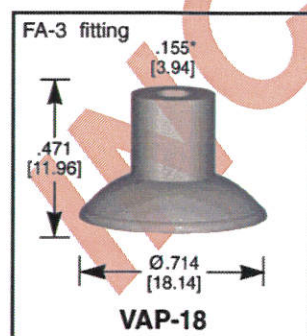
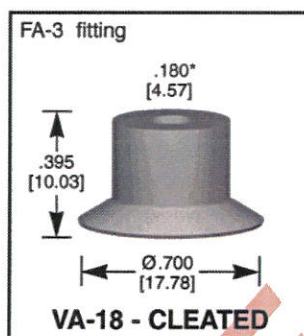
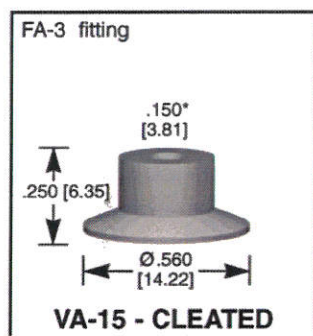
VA-12

\* INDICATES HOLE SIZE AT TOP OF VACUUM CUP

# SEAL SCIENCE VACUUM CUPS

## STYLE VA - BARB TYPE

PART NUMBER / DASH NUMBER INDICATES APPROXIMATE LIP DIAMETER IN MILLIMETERS



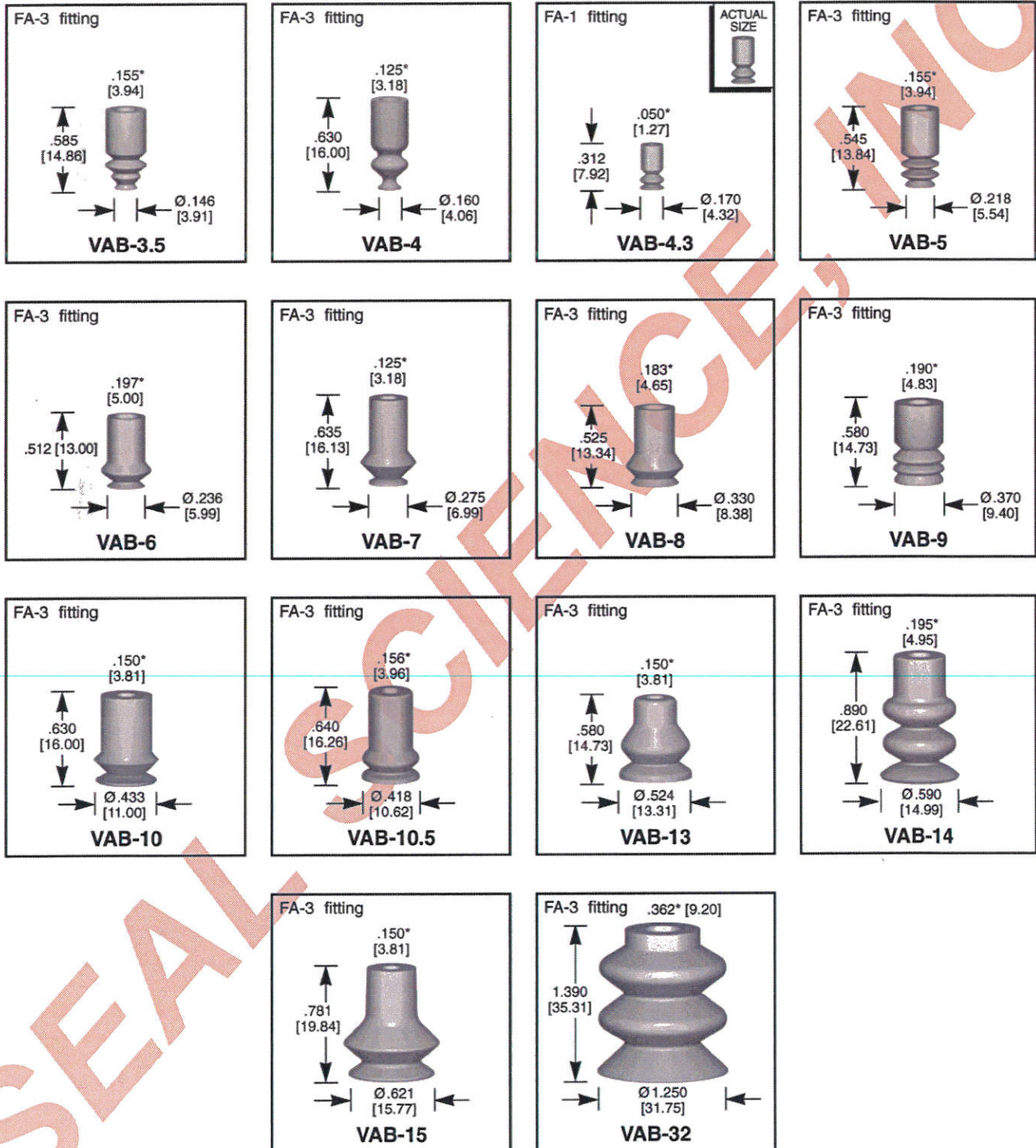
\* INDICATES HOLE SIZE AT TOP OF VACUUM CUP

### NOTES:

# SEAL SCIENCE VACUUM CUPS

## BELLOWS STYLE VAB - BARB TYPE

PART NUMBER / DASH NUMBER INDICATES APPROXIMATE LIP DIAMETER IN MILLIMETERS



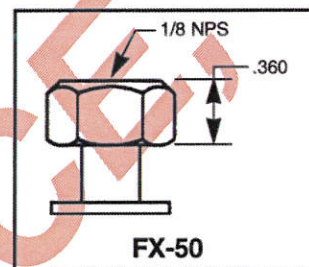
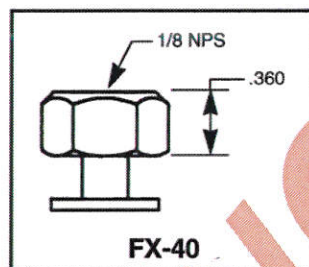
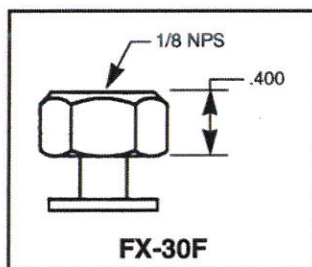
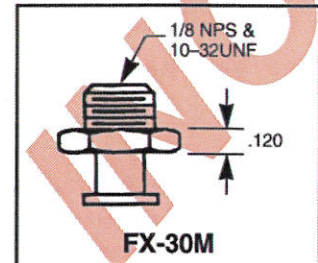
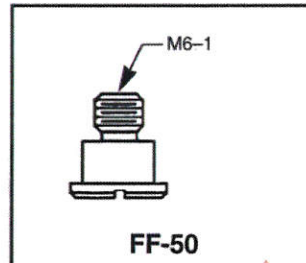
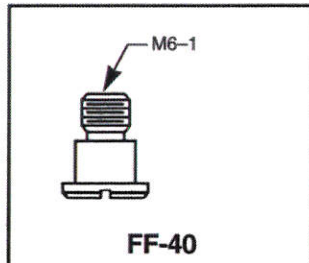
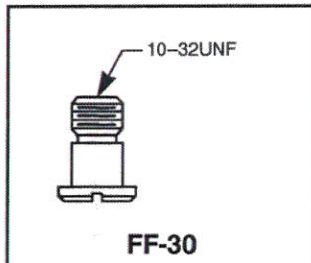
\* INDICATES HOLE SIZE AT TOP OF VACUUM CUP

# SEAL SCIENCE VACUUM CUPS

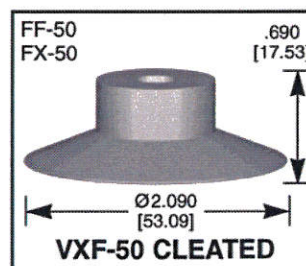
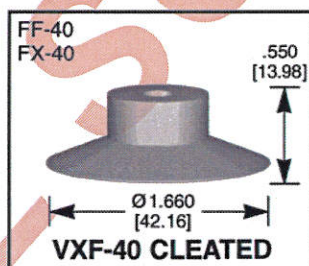
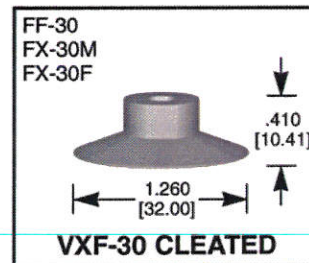
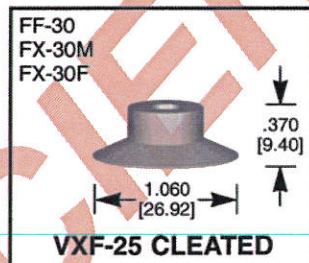
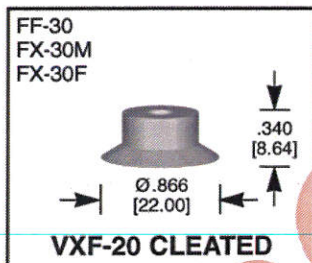
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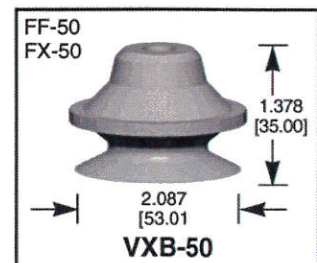
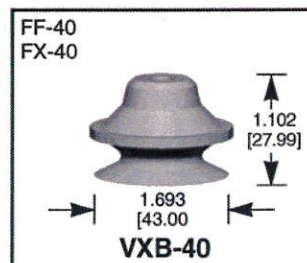
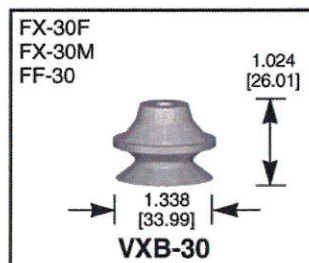
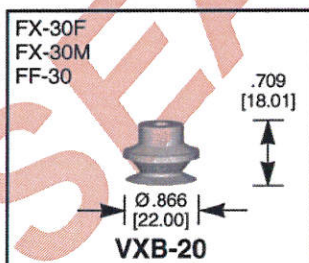
### FITTINGS



### FLAT VACUUM CUPS



### BELLOWS STYLE

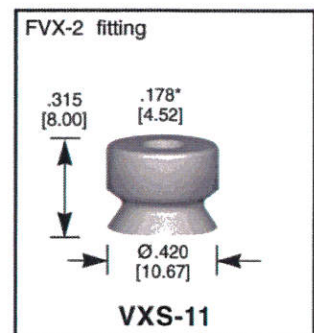
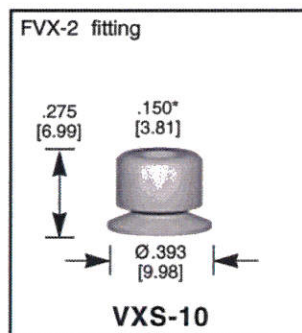
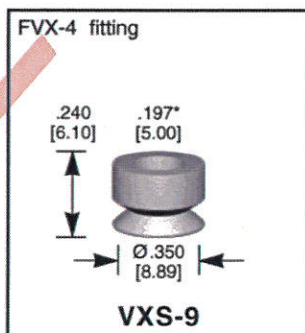
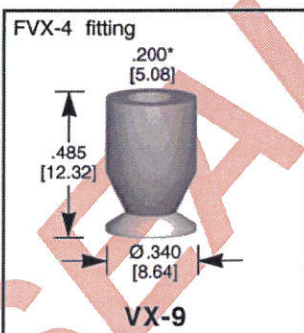
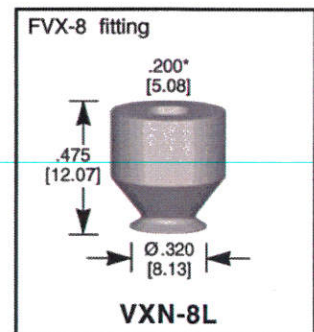
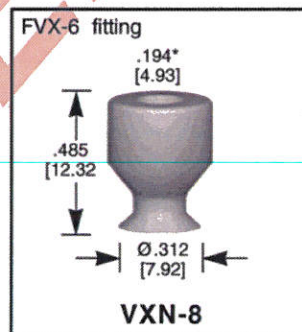
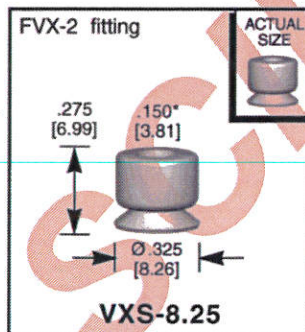
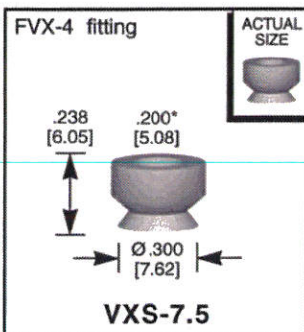
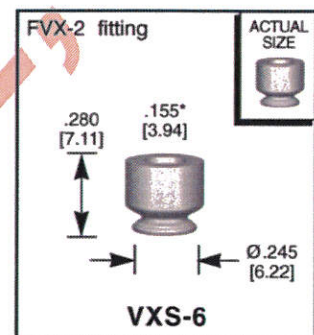
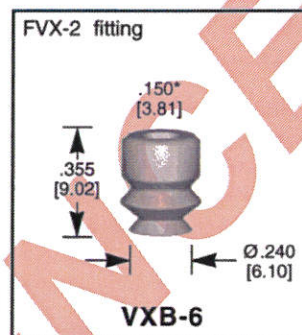
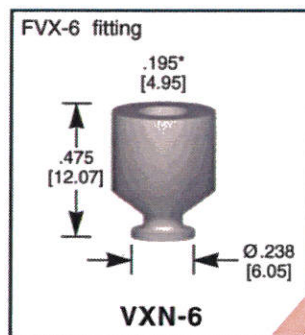
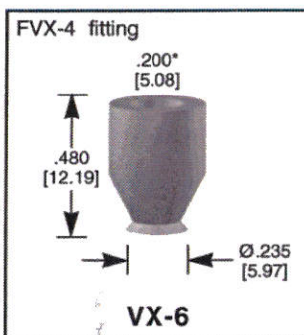
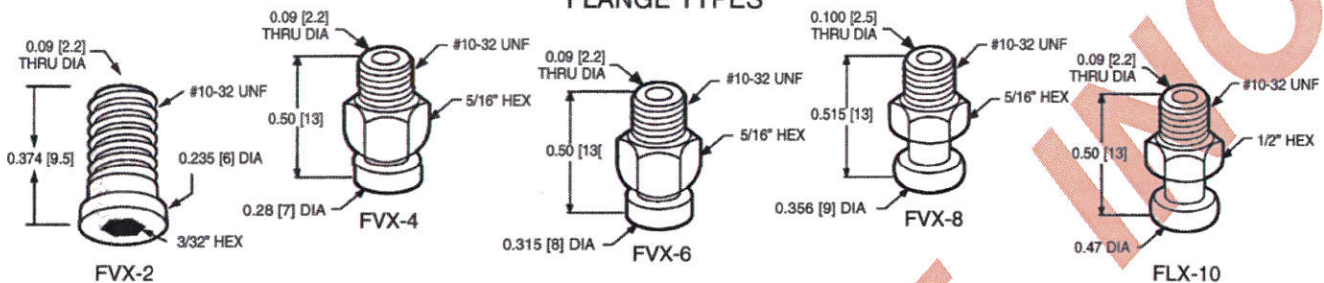


# SEAL SCIENCE VACUUM CUPS

## STYLE VX - FLANGE TYPE

PART NUMBER / DASH NUMBER INDICATES APPROXIMATE LIP DIAMETER IN MILLIMETERS

### FLANGE TYPES



\* INDICATES HOLE SIZE AT TOP OF VACUUM CUP

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**1-800-576-SEAL**  
E-mail: info@sealscience.com

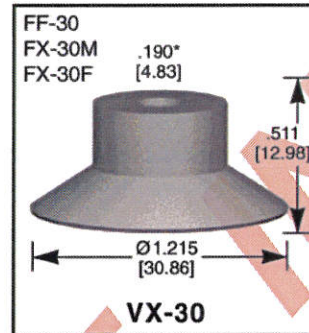
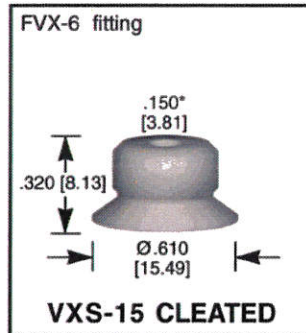
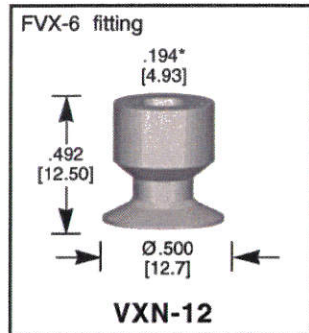
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East Coast Office:  
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E-mail: info@sseast.com

# SEAL SCIENCE VACUUM CUPS

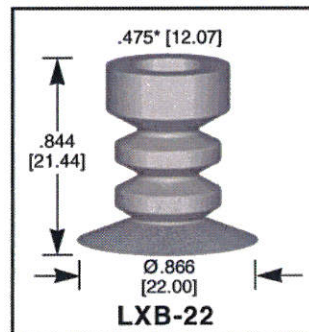
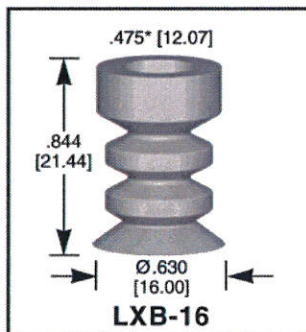
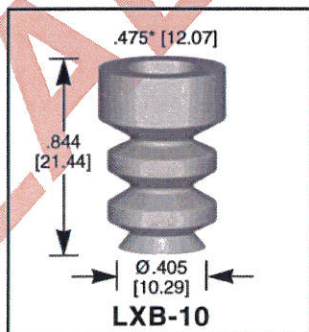
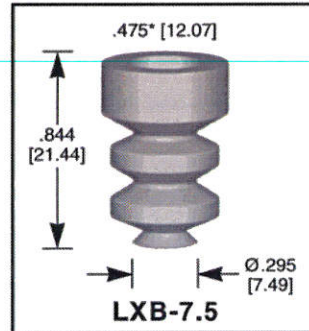
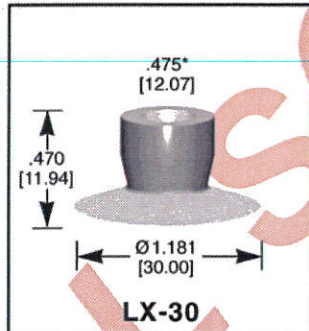
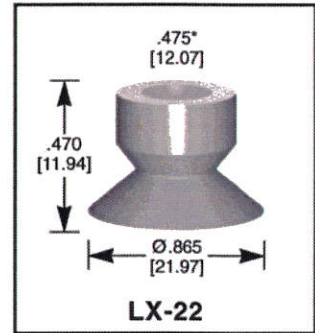
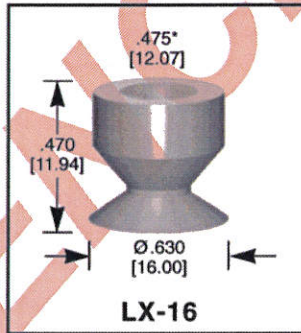
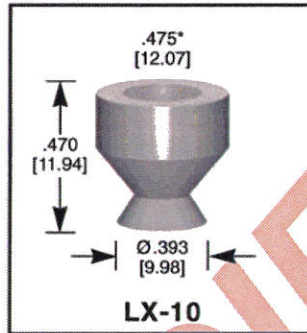
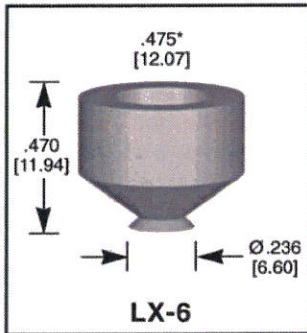
## STYLE VX – FLANGE TYPE (con't)

PART NUMBER / DASH NUMBER INDICATES APPROXIMATE LIP DIAMETER IN MILLIMETERS



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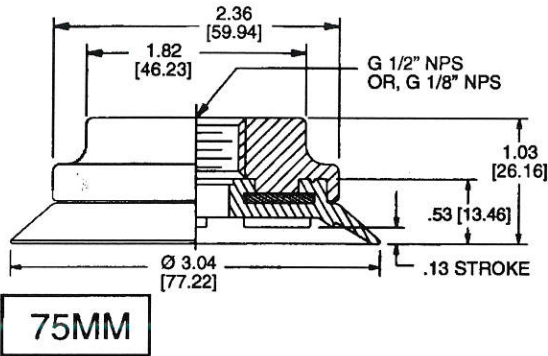
ALL LX & LXB STYLES USE THE FLX-10 FITTINGS



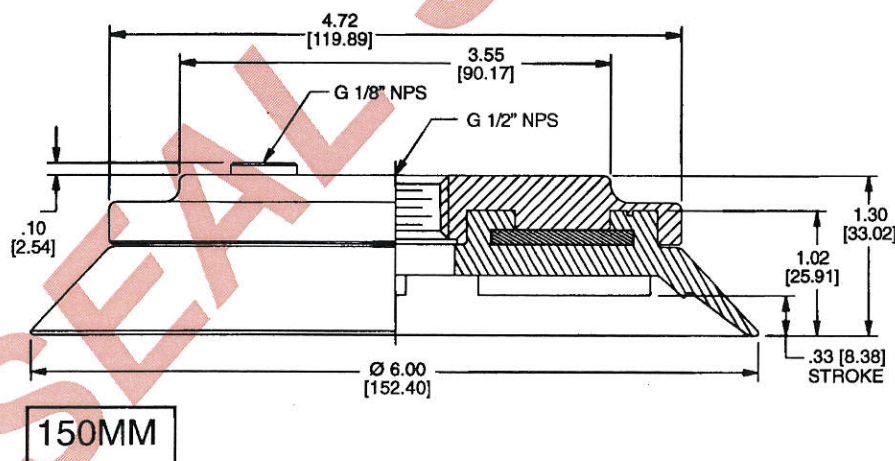
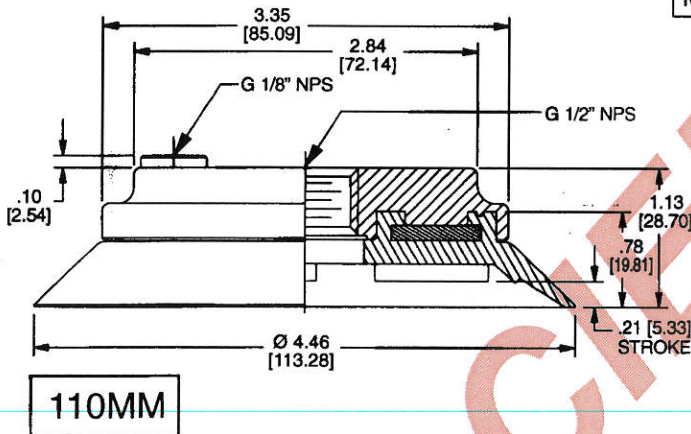
\* INDICATES HOLE SIZE AT TOP OF VACUUM CUP

# SEAL SCIENCE VACUUM CUPS

## STYLE "X" MOUNT - LARGE FLAT FLANGE TYPES

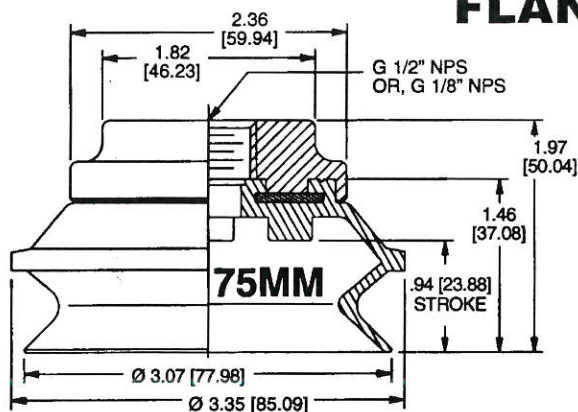


| CUP DIAMETER       | 75MM      | 110MM     | 150MM     |
|--------------------|-----------|-----------|-----------|
| NITRILE CUP        | VXF 75N   | VXF 110N  | VXF 150N  |
| CUP + 1/8" FITTING | FF-7518   | N/A       | N/A       |
| CUP + 1/2" FITTING | FF-7512   | FF-110    | FF-150    |
| CUP WEIGHT         | 1.2 oz    | 3.4 oz    | 8.3 oz    |
| CUP + FITTING WT   | 3.8 oz    | 8.2 oz    | 16.5 oz   |
| INTERNAL VOLUME    | 1.2 cu in | 4.3 cu in | 9.8 cu in |
| FORCE @ 6" Hg      | 18 lb     | 32 lb     | 67 lb     |
| FORCE @ 18" Hg     | 45 lb     | 94 lb     | 191 lb    |
| MINIMUM RADIUS     | 5.9"      | 9.8"      | 19.7"     |

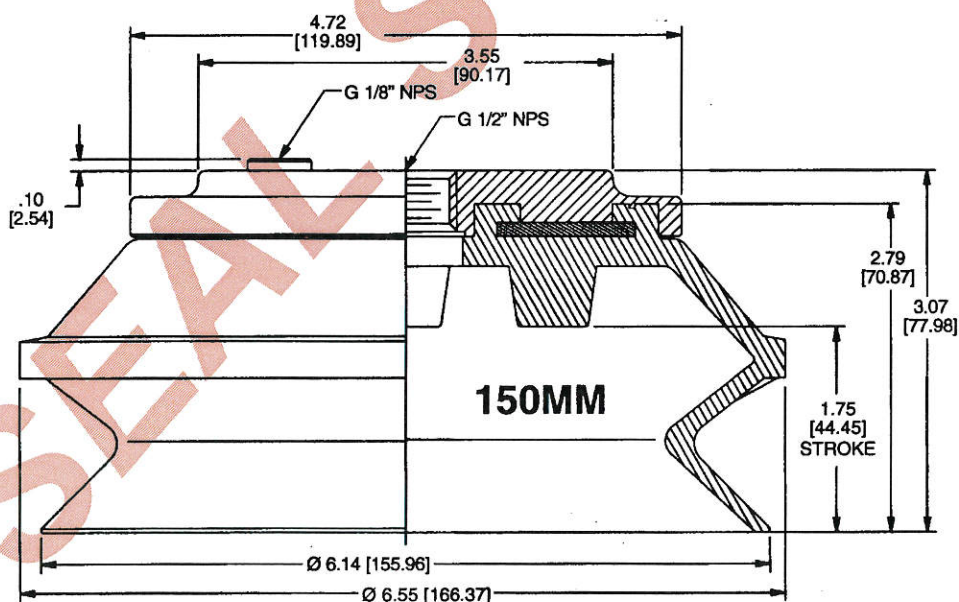
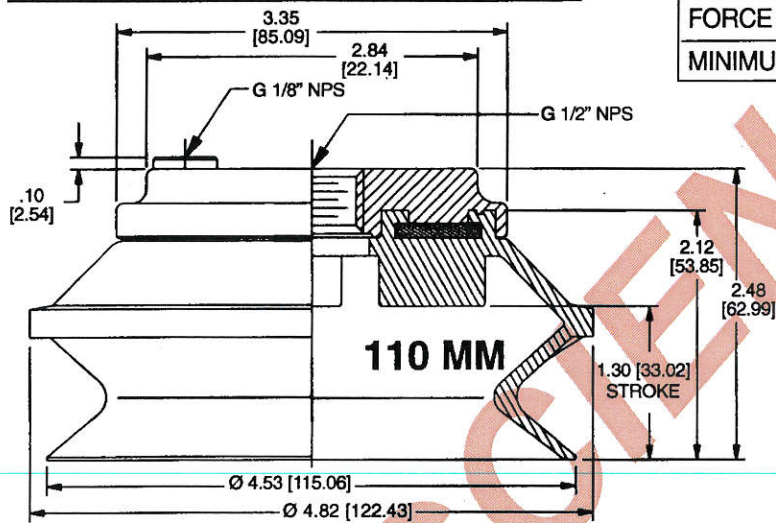


# SEAL SCIENCE VACUUM CUPS

## STYLE "X" MOUNT - LARGE BELLOWS FLANGE TYPES



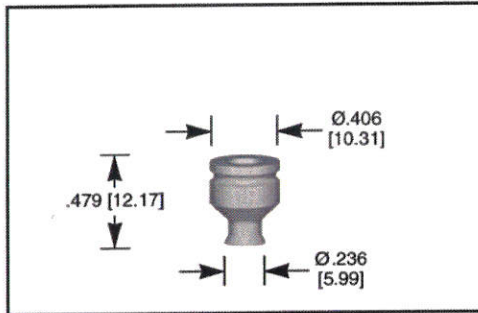
| CUP DIAMETER       | 75MM      | 110MM    | 150MM    |
|--------------------|-----------|----------|----------|
| NITRILE CUP        | VXB 75N   | VXB 110N | VXB 150N |
| CUP + 1/8" FITTING | FF-7518   | N/A      | N/A      |
| CUP + 1/2" FITTING | FF-7512   | FF-110   | FF-150   |
| CUP WEIGHT         | 1.9 oz    | 4.8 oz   | 12 oz    |
| CUP + FITTING WT   | 4.6 oz    | 11.0 oz  | 19.7 oz  |
| INTERNAL VOLUME    | 6.7 cu in | 19 cu in | 40 cu in |
| FORCE @ 6" Hg      | 16 lb     | 30 lb    | 66 lb    |
| FORCE @ 18" Hg     | 37 lb     | 77 lb    | 154 lb   |
| MINIMUM RADIUS     | 1.6"      | 2.4"     | 3.0"     |



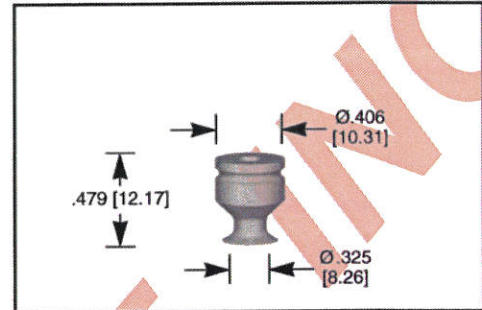
# SEAL SCIENCE VACUUM CUPS

## STAR ROBOT TYPE

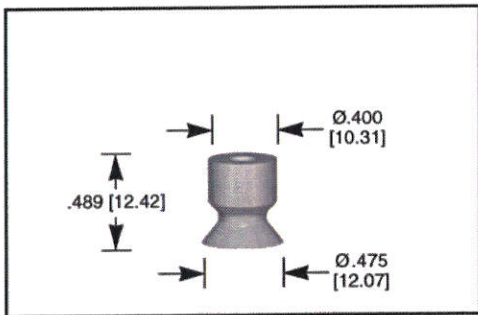
PART NUMBER / DASH NUMBER INDICATES APPROXIMATE LIP DIAMETER IN MILLIMETERS



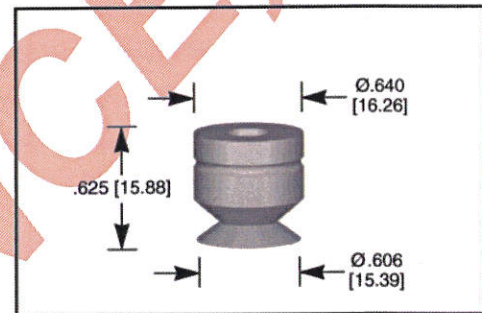
VS-6



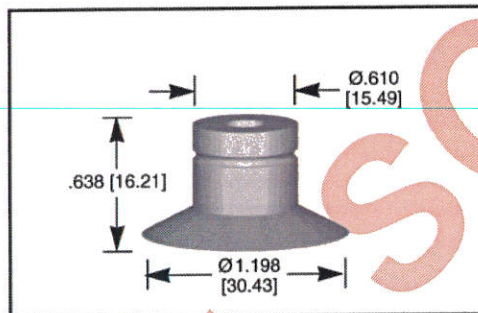
VS-8



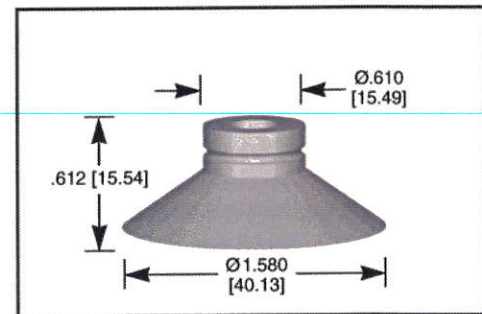
VS-12



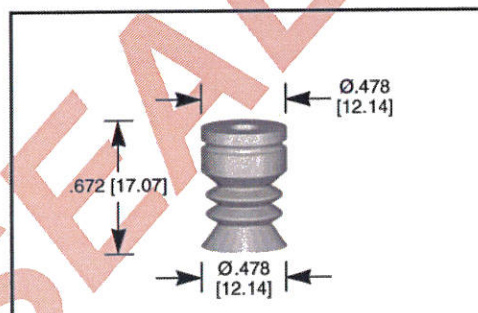
VS-15



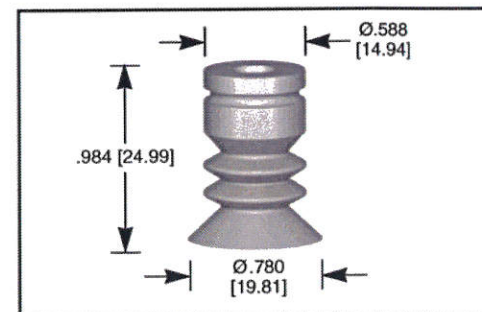
VS-30



VS-40



VSB-12

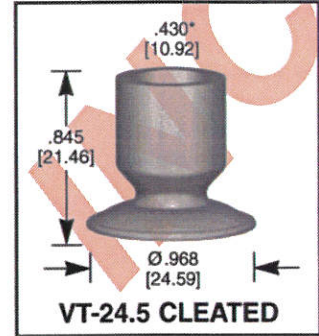
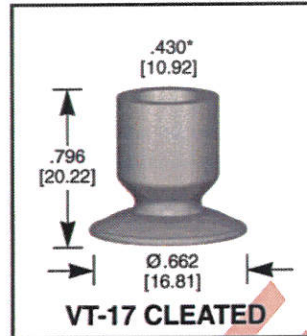
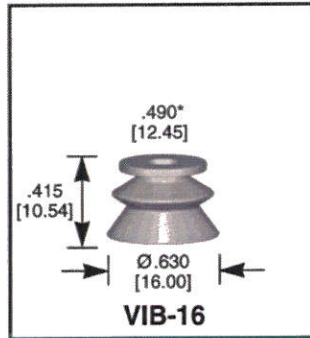
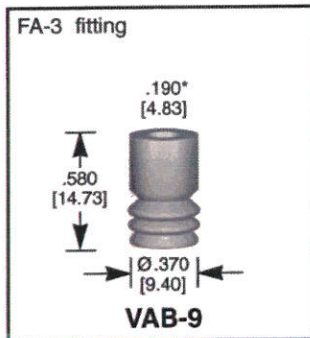


VSB-20

# SEAL SCIENCE VACUUM CUPS

## ILSEMANN TYPE

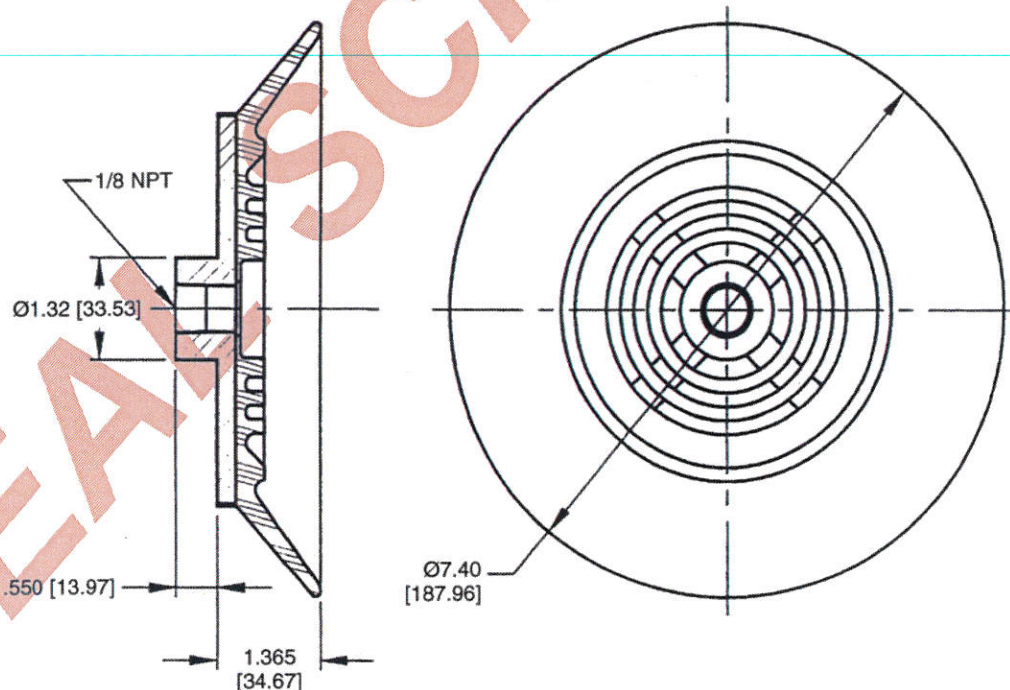
PART NUMBER / DASH NUMBER INDICATES APPROXIMATE LIP DIAMETER IN MILLIMETERS



\* INDICATES HOLE SIZE AT TOP OF VACUUM CUP

## METAL REINFORCED HEAVY DUTY VACUUM CUP

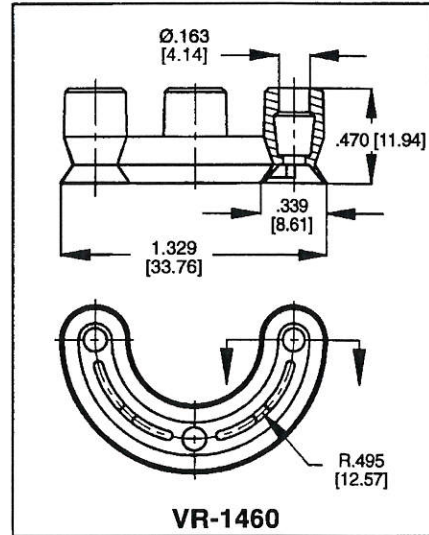
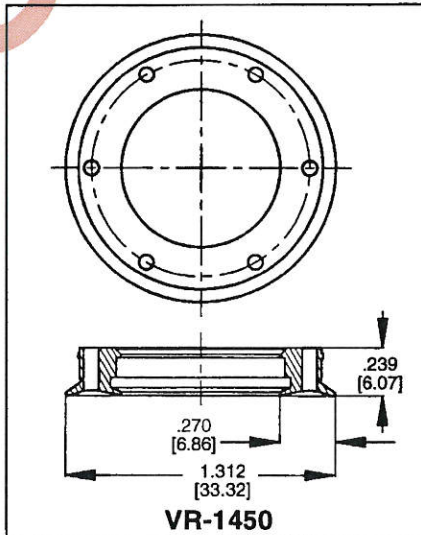
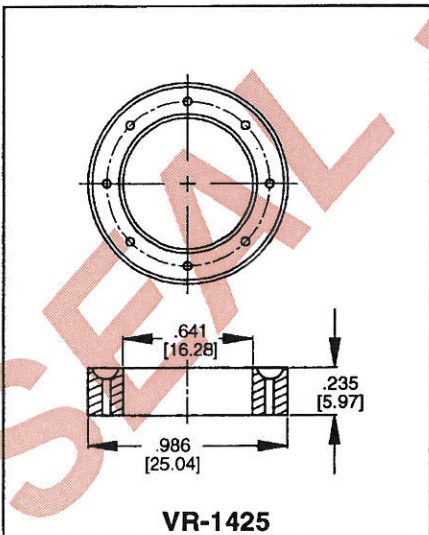
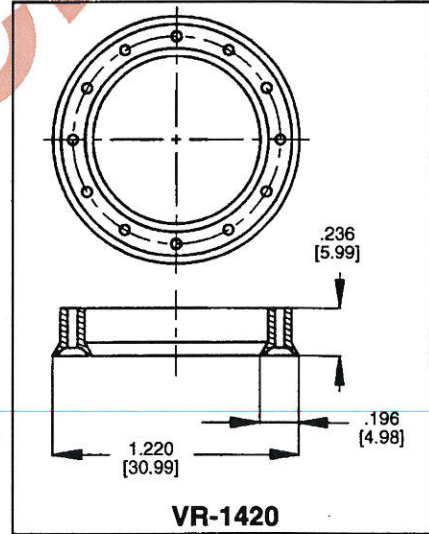
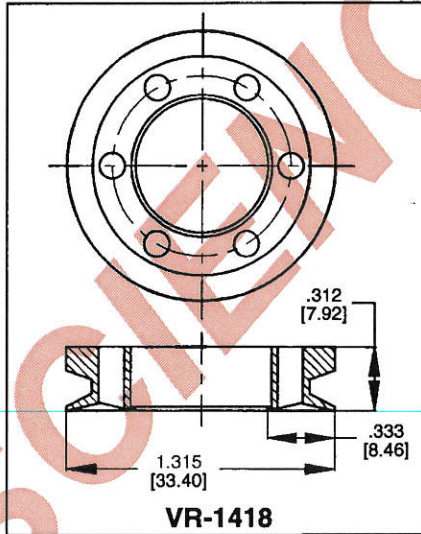
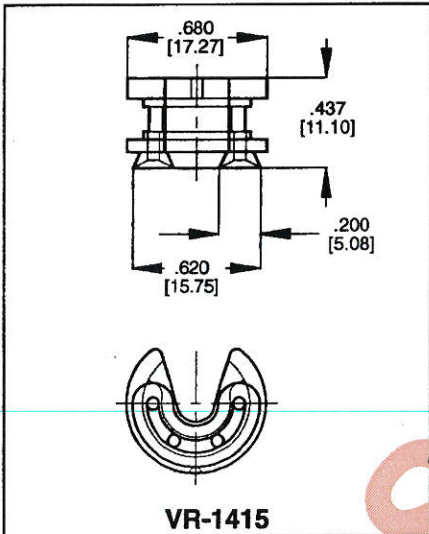
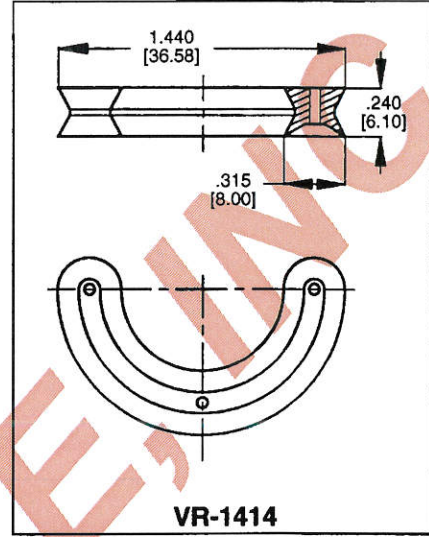
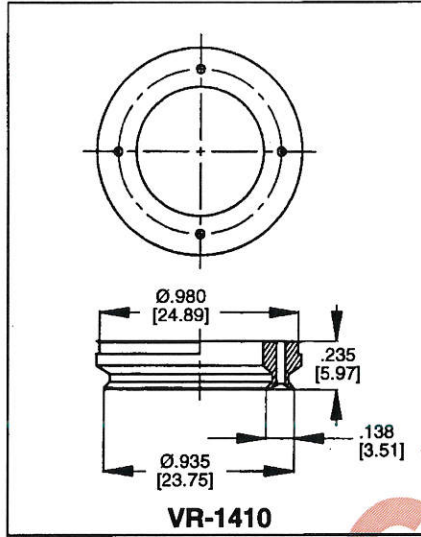
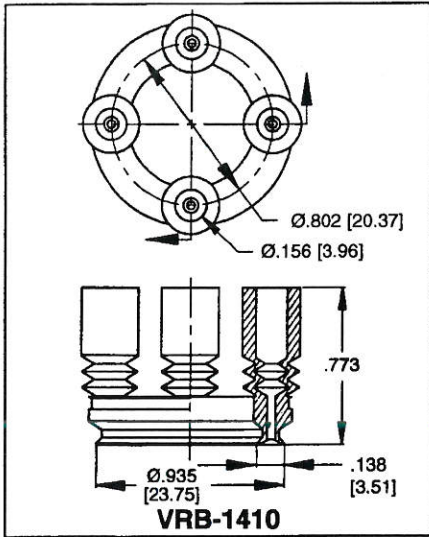
PART NUMBER / DASH NUMBER INDICATES APPROXIMATE LIP DIAMETER IN MILLIMETERS



**MHD-740**

# SEAL SCIENCE VACUUM RINGS

EXCEPTIONAL QUALITY • CLOSE TOLERANCE MOLDED • MANY POSSIBLE COMPOUNDS



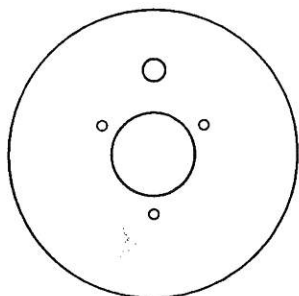
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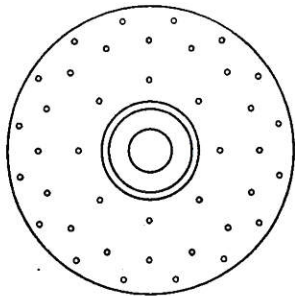
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# SEAL SCIENCE PRINTER PADS

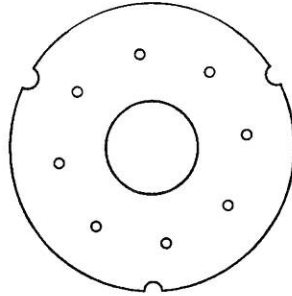
WE CAN LAMINATE, MOLD, ADHESIVE BACK AND CLOSE TOLERANCE GRIND  
FOR THE BEST PERFORMANCE



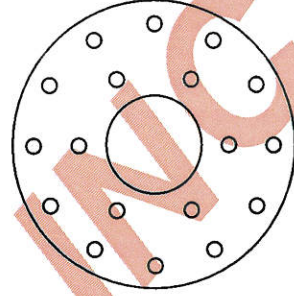
**VP-427**  
DUBUIT STYLE



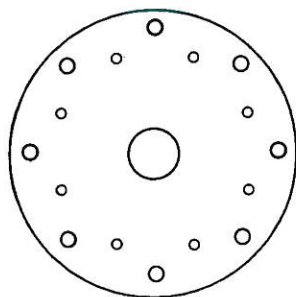
**VP-658**  
JCPL STYLE



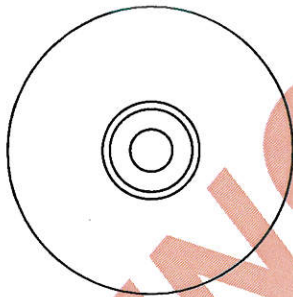
**VP-931**  
MONOLINER STYLE



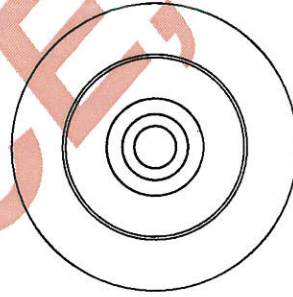
**VP-932**  
AUTOROLL STYLE



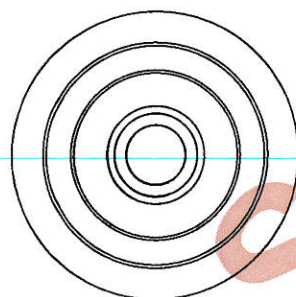
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MONOLINER STYLE



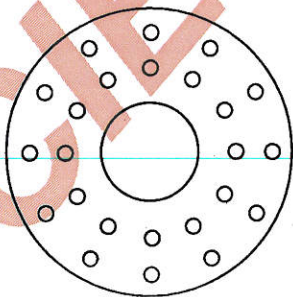
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AUTOROLL STYLE



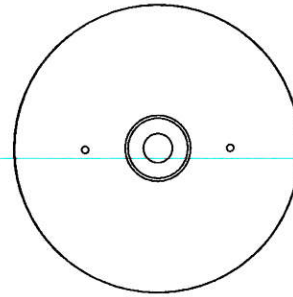
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KAMMANN STYLE



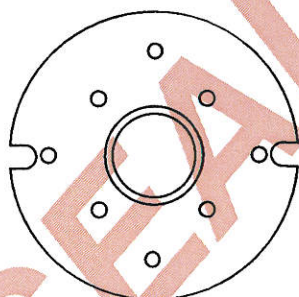
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KAMMANN STYLE



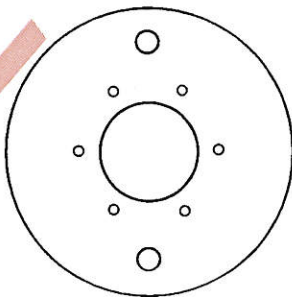
**VP-951**  
OMSO STYLE



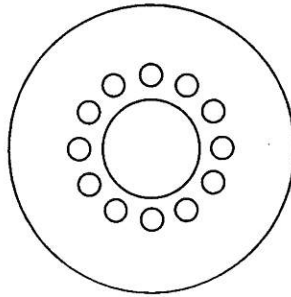
**VP-955**  
BONDER



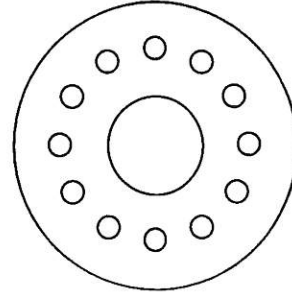
**VP-967**  
GUANN YINN STYLE



**VP-968**  
AUTOTEC STYLE



**VP-974**  
KAMMANN STYLE



**VP-975**  
KAMMANN STYLE

Available in the following UV Resistant materials with revolutionary Seal Science "E-Z Peel" adhesive:  
• SR 6065 - Reinforced Silicone • NW3060 - Non-Marking White Polymer • Bet 190 - Black Polymer  
Note: Availability may vary by pad thickness

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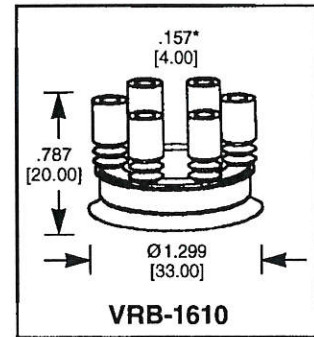
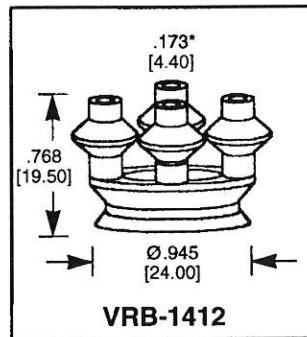
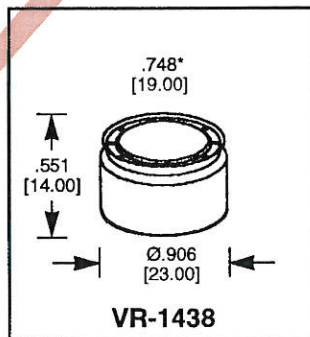
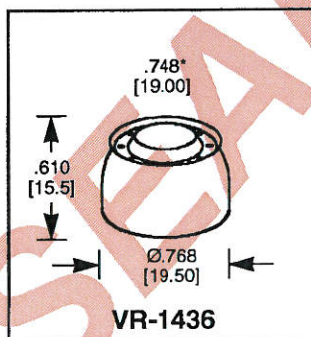
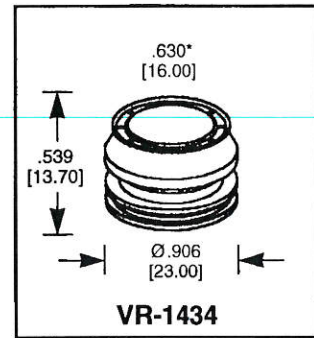
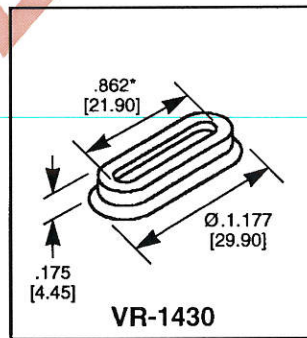
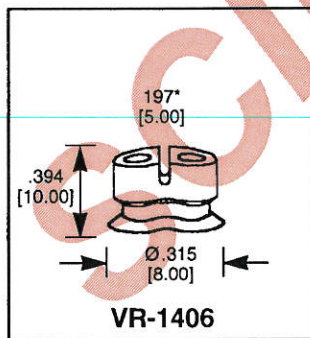
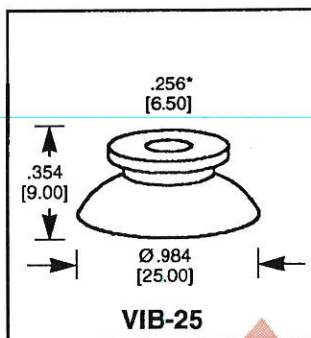
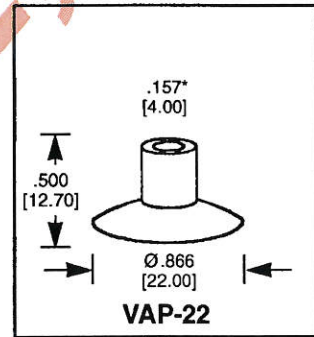
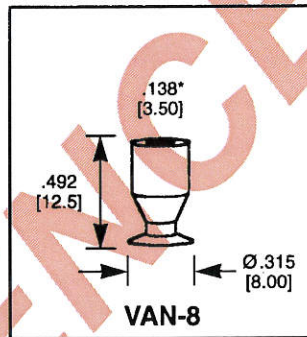
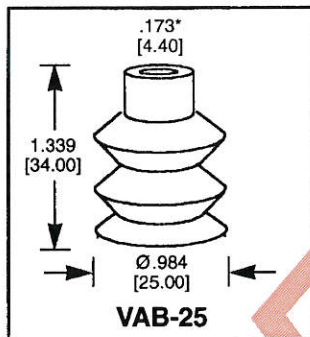
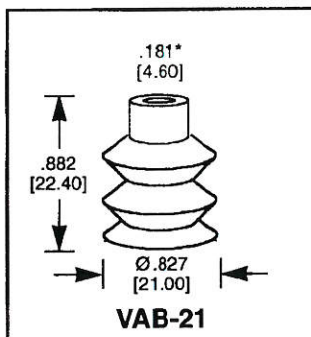
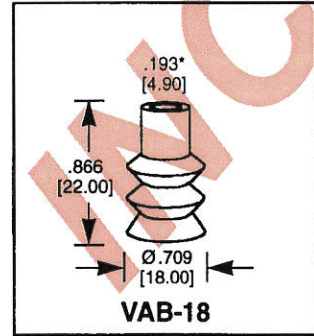
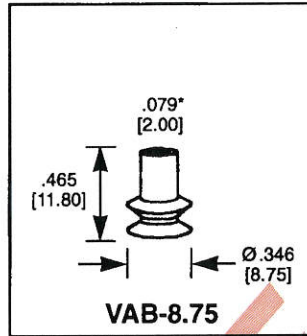
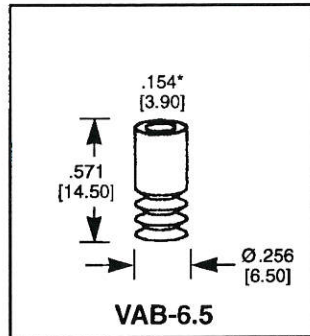
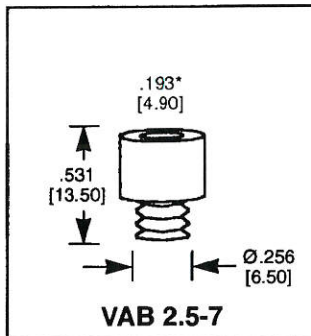
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# SEAL SCIENCE VACUUM CUPS

## NEW DISC HANDLING STYLES

PART NUMBER / DASH NUMBER INDICATES APPROXIMATE LIP DIAMETER IN MILLIMETERS

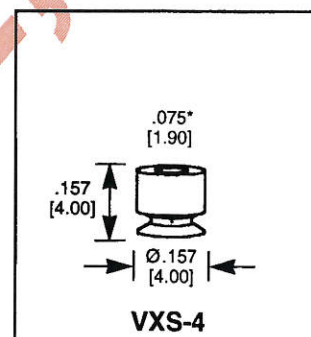
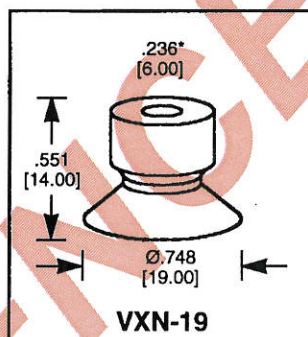
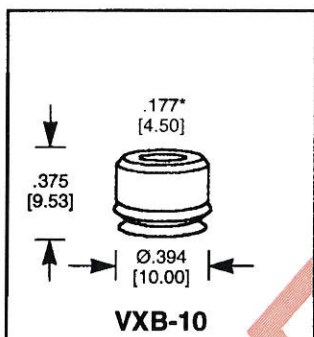
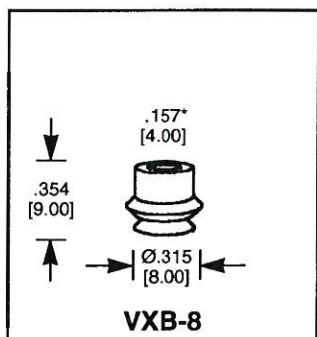
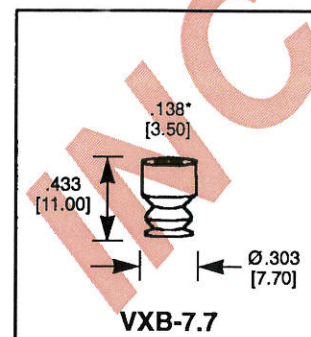
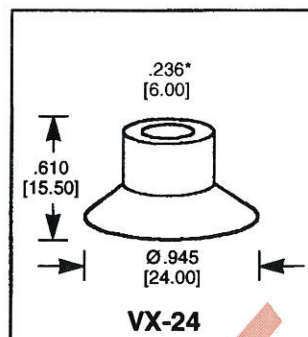
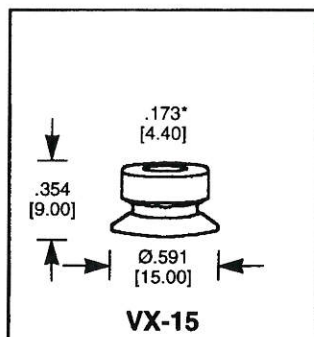
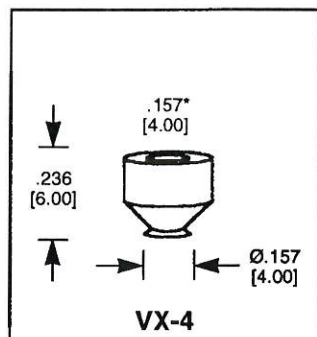


\* INDICATES HOLE SIZE AT TOP OF VACUUM CUP

# SEAL SCIENCE VACUUM CUPS

## NEW DISC HANDLING STYLES

PART NUMBER / DASH NUMBER INDICATES APPROXIMATE LIP DIAMETER IN MILLIMETERS



### NOTES:

\* INDICATES HOLE SIZE AT TOP OF VACUUM CUP

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# PRINTING PRESS & COLLATOR SUCTION CUPS

-  **1 KLUGE**, Paper suckers. Red or gum rubber.
- 1P - PLASTIC SUCKER**  
Longer life.
-  **1a KLUGE**, Narrow Margin Sucker, very handy in tight places
-  **2 KLUGE**, card suckers Red or gum rubber.
-  **3 KLUGE**, card suckers Red or gum rubber.
-  **4 UNIVERSAL TIPS**, light duty C&P, Giant, Web and Chief.
-  **5 UNIVERSAL TIPS**, heavy duty C&P, Giant, Web and Chief.
-  **6a MACEY COLLATOR**, HARRIS pickup sucker for cardboard.
-  **7 HARRIS** old style, Giant, Web, Chief, Harris, for cardboard. Gum rubber, thick, regular or heavy, or black poly.
-  **8 HARRIS** old style, Giant, Web, Chief, Harris, for paper
-  **9 MILLER** Simplex, Major, South worth envelope press suction feed. Fits 1/4" tube. For paper.
-  **10 MILLER** Simplex, Major, for cardboard. Gum rubber or black.
-  **11 HARRIS 90 ELB** fits most presses. Mann, Macey Collator & Stitche, 6E7 - paper. 6E8 - cardboard. HTB Miehle feeders
-  **12 HARRIS 1361 LTN** fits most presses, for paper Gum rubber or silicone.
-  **13 a - MIEHLE CS 3122 FEEDER**, Superchief light for warder, Miller, Diddle Glaser Collator, for paper.
-  **b - MIEHLE CS3124 FEEDER**, Superchief heavy forwarder, Dexter, Giant, for cardboard. Both fit Ebo presses.
-  **14 MIEHLE CS427 FEEDER**, Farrington Collator, Giant, Web, Chief, for paper
-  **15 MIEHLE CS1026 FEEDER** Giant, Web, Chief, for cardboard.
-  **15a MACEY COLLATOR** Harris pickup sucker, for paper.
-  **16 C&P, RICE**, Kluge "D" delivery for paper and light cardboard.
-  **19 FLAT RUBBER SUCTION DISCS**, Over 50 different sizes available up to 2". Submit sample. More information on back page.
-  **22 HEIDELBERG SUCKER**, KLUGE, new style, 7/8" across. Delivery gripper will not tear this.
-  **23 RUBBER SUCTION TIP**, 5/8" across - fits inserting and gathering machines. Sheridan McCain. Phillipsburg. Various compounds available. Submit sample.
-  **23a DEXTER RGA 717**, raised inside pattern for light stock. Submit sample.

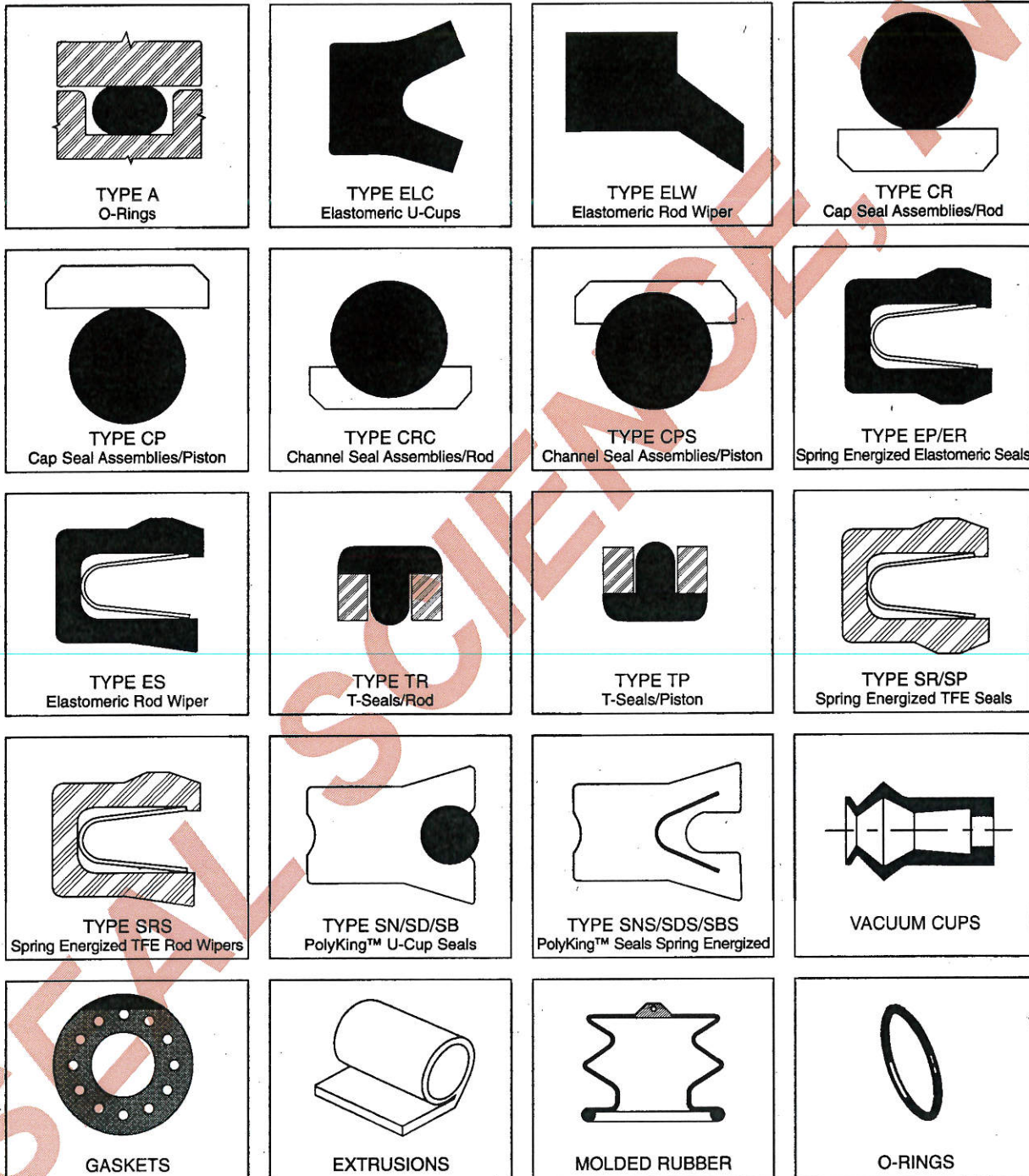
-  **55 MF MIEHLE FEEDERS**. MF 3968 and ATF Superchief pickup suckers.
-  **56 MF MIEHLE FEEDERS**. MF 3336 and packaging machines. Fits 1/2" tube. For light stock. Gum rubber or Neo.
-  **57 HARRIS 1108**, fits 5/8" tube, for heavy stock.
-  **58 MIEHLE STREAM FEEDER**, CS 11398, packaging machines. Occasionally replaces 3122, 3123, 3124, Fits 1/2" tube - 1/3/8" across. Gum rubber or poly.
-  **59 HARRIS 956-ELB**, fits 5/16" tube 1-3/8" across. For light stock.
-  **60 MF MIEHLE FEEDERS**, MF 3558 package machines, Superchief tissue suckers, Fits 1/2" tube - 1" across. For light stock. Gum rubber or Neo.
-  **61 HARRIS 391-ELB**, fits 5/16" tube - 1-3/8" across. For heavy stock.
-  **62 CS MIEHLE FEEDERS**, CS-357. 1-1/4" across.
-  **63 SHERIDAN & other collators** with 1/8" tube.
-  **64 MIEHLE FEEDERS**, K-1196.
-  **66 A.B. DICK**, BIG FOOT molded sucker. For all presses with 1/4" bottom tube. Regular & Heavy.
-  **67 HARRIS polyurethane**, 3361-LTY. Occasionally replaces 59 & 61. Fits 5/16" tube. 1-3/4" across. For heavy stock.
-  **68 HEIDELBERG Cylinders**. Cup shape prevents snap-back. 1-1/8" across.
-  **76 MULLER** collating and gathering machines. Red or Black.
-  **77 MULLER** collating & gathering machines. Green.
-  **78 HAMADASTAR** printing press.
-  **79 ASTRO AND SANDMAR** envelope & sheet feeders. Specify medium or heavy.
-  **80 ATF - Commander 29 Speiss feeders**. Heidelberg. For thin stock.
-  **81 KLOCKNER 18092-1** packaging machines. 1-1/8" across. 1/2" high. Black, Red, Blue or Tan.
-  **82 RYOBI**. Ryobi-Itek.
-  **83 HEIDELBERG GTO** Offset presses. Gum rubber or poly.
-  **86 KLOCKNER 18092** packaging machines. 1-1/2" across. 3/4" high. Black, Red, Blue or Tan.
-  **88 HAMADA CK 02-77** printing presses
-  **89 HARRIS 398-0026** 7/8" across bottom.

-  **90 TOKO DVY-9-R1** MULTI 1218-CJ-11 IMPERIAL CJ-11 Bourg Modulen Collator
-  **91 HAMADA H05-49-01-3** Black plastic tube.
-  **92 HEIDELBERG 22.016.008** For T-Press TOK-TOM
-  **92Q HEIDELBERG QUICKMASTER**
-  **93 MULLER 020.1913** Collating and gathering machines.
-  **94 PHILLIPSBURG** Inserters, bellows type. Black. McCain, bellows type.
-  **95 McCain** bellows type.
-  **96 HARRIS/AURELIA** bellows type. 1-1/4" across, 1" high.
-  **97 RYOBI**, 5640-35-531. Clear or White.
-  **99 HEIDELBERG 42.016.073** FOR GTO.
-  **100 NORFIN COLLATOR**.
-  **101 UHLMANN PACKAGING MACHINES**.
-  **102 HORIZON COLLATOR**, 3013. Small dark grey sucker.
-  **103 HORIZON COLLATOR** 3015, Large blue sucker.
-  **104 DUPLO COLLATOR**. Bellows type sucker.
-  **105 HAMADA** bellows cup, 6901-05057.
-  **106 BOURG MODULEN COLLATOR**. Vinyl.
-  **107 A.B. DICK CENTURY 3000**. Bellows type sucker.
-  **125 CUMMINGTON** collator. Miehle Vertical for cardboard.
-  **124L CHIEF 24 Light**. For Light stock
-  **124H CHIEF 24 Heavy**. For Heavy Stock.
-  **MIEHLE CS** and other feeders. For heavy stock or sheet metal. 1-7/8" high. 1-1/4" across. Fits 1/2" OD tube or 1/2" pipe.
-  **MIEHLE CS** and other feeders. For cardboard 1" high. 1-1/4" across. Fits 1/2" OD tube.
-  **MIEHLE TF** and other feeders. For cardboard or sheet metal. 2-1/8" high. 1-9/16" across. Fits 3/4" OD tube or 1/2" pipe.
-  **MIEHLE TF** and other feeders. For cardboard or sheet metal. 2-1/2" across. Fits 3/4" OD tube or 1/2" pipe. Gum rubber or Neo.

# ABOUT SEAL SCIENCE

Seal Science's success is based on our design and manufacturing expertise in rubber and plastics, with special emphasis on materials, seals and seal systems. Seal Science's engineering, molding, stamping, machining, and specialty fabrication operations can provide you with quality products on a timely basis. We've got your solutions. Call Seal Science at 1-800-576-SEAL. **YOUR VACUUM CUP AND SEAL SPECIALISTS.**

## SEAL SCIENCE PRODUCTS VIEW



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