



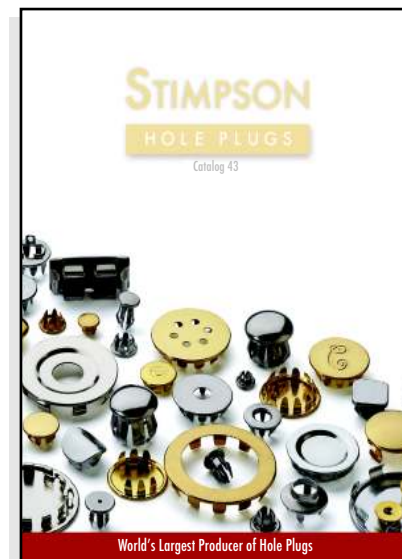
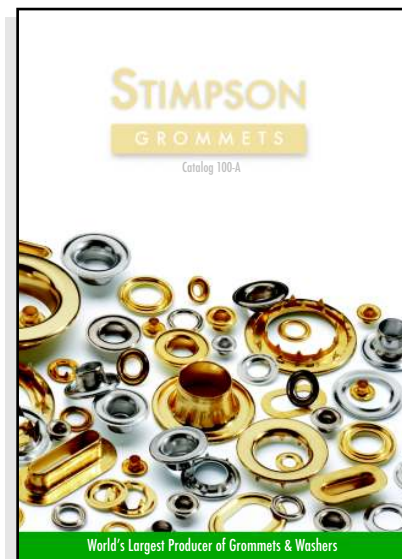
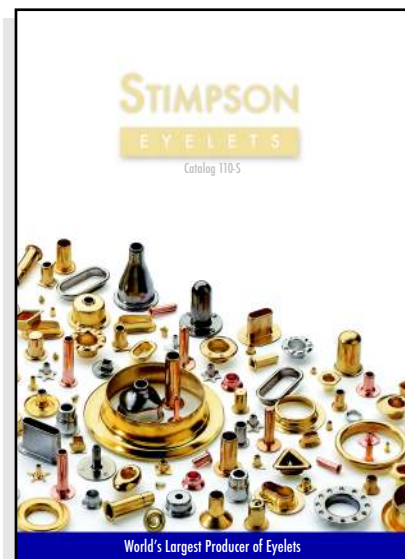
Established 1852

ISO 9001 Certified

# STIMPSON

## PRODUCT GUIDE

### Additional Stimpson Catalogs







Featured are just some of the many industries and products that utilize the metal fasteners that Stimpson offers.

Established in 1852, The Stimpson legacy is based on quality products supported by friendly, knowledgeable customer service.

As you see the possibilities are almost endless...and for this, WE THANK YOU, our Customer.



## Line Of Attaching Machines



### Model 92GW Grommet Machine



The Model 92GW is a dual feed, heavy duty grommeting machine. It offers the attractive advantage of being able to make settings in heavy duty industrial fabrics (including kevlar and nylon) by punching out the hole and then attaching the grommet & washer in a single cycle. In addition, a material thickness compensator allows materials with thickness difference of up to 1/8" to be set without a setting tool adjustment. Available for grommet & washer sizes #0 to #4 inclusive.

### Model 2KGW Grommet Machine

State-of-the-art, fully automatic, grommet machine. This machine is built around a newly designed frame that requires less space and is much lighter than previous generations of machines. The 2KGW is a fully automatic machine that feeds both the grommet and washer, punches the hole in the material and attaches the grommet and washer, all in a single cycle. Flywheel powered and cam actuated to ensure consistent settings. It offers advanced cutting and material thickness compensation technology. The 2KGW has been specifically engineered for light to medium duty applications. Available for grommet and washer sizes #00 to #2.



### Model 4KGW Grommet Machine



The most advanced grommet machine in Edward Segal's product line, the 4KGW uses pneumatic force and innovative toggle linkage to cut through multiple layers of the toughest fabrics. The 4KGW has fewer moving parts than mechanical grommet machines, simplifying maintenance requirements. PLC based controls provide for optimal machine flexibility, and a pressure setting switch compensates for variances in material thickness. Fully automatic, dual feed, the 4KGW is available for Stimpson grommet and washer sizes #0 to #4.

### Model 83 Eyelet Machine

Model 83, 83LT and 2R83 are bench model, automatic feed, eyelet attaching machines specifically designed to make single or multiple high speed eyelet settings in most light to moderate weight fabrics. The base Model 83 machine is used for single or multiple eyelet settings where materials are prepunched or where the eyelet cuts its own hole. Model 2R83 is similar to the base Model 83 machine, but includes the double revolution feature to punch holes in your material. Model 83LT is designed to set small eyelets using the Limited Travel feature.



### Model SF2 Snap Fastener Machine



The Model SF2 is a fully automatic snap fastener machine tooled for standard industrial snap fastener components. This machine is offered for customers looking for an affordable, reliable solution for snap fastener applications. The Model SF2 is a flywheel powered machine and features rotary hoppers, a target light for locating the snap position on the material, and a mechanical clutch with a non-repeat mechanism to ensure long-term safe operation.





# Offers The Edward Segal

## Model 3P5 Grommet Machine



Model 3P5 is a portable pneumatic press specifically designed for grommet applications. At only 22 pounds, 17" tall, 4" wide, and 11" deep, this powerful compact press is capable of punching a hole in a wide range of industrial fabrics and attaching Stimpson grommets and washers (sizes #00 - #4), all in a single cycle. All of the setting tools are interchangeable, and are simply threaded in place, allowing for fast conversions between grommet sizes. This machine is built on a sturdy welded frame and designed for safe operation, portability, and ease of use.

## Model 3P5-X Grommet Machine

Model 3P5-X is a portable pneumatic press specifically designed for applications that require grommets that are larger than #4. The X is the larger, more robust version of the standard 3P5. This unit weighs 45 pounds, and measures 17-1/2" tall, 4-1/2" wide and 14" deep. Even though the 3P5-X is specifically designed for the larger grommets, it comes with an adapter set to run the standard 3P5 tools for smaller grommets (sizes #0 - #4). This machine is built on a sturdy welded frame and designed for safe operation, portability and ease of use. All of the setting tools are interchangeable, and are simply threaded in place to facilitate fast conversions between grommet sizes.



## Model 83 Grommet Machine



Models G83 and G2R83 are bench model grommet machines employing a single automatic feed of the grommet, and a hand feed of the washer. Model G83 is suitable for grommet applications where the holes are prepunched. Model G2R83 includes the double revolution feature to punch a hole in the material and then feed and set the grommet. For plain grommet sizes #00 - #5.

## Model 83GW Grommet Machine

A dual feed, heavy duty grommet machine which pierces your material while it automatically feeds and sets both the grommet and the washer all with one tripping of the electric foot switch. The 83GW is especially suited for lighter materials as it pierces a hole versus punching a clean hole. With the pierce, the extra material folds back and provides a larger foundation to set the grommet and washer against. Available for rolled rim grommet sizes #0 to #4 with matching spur washer, and plain grommet and matching neck or teeth washer, sizes #00 to #4.



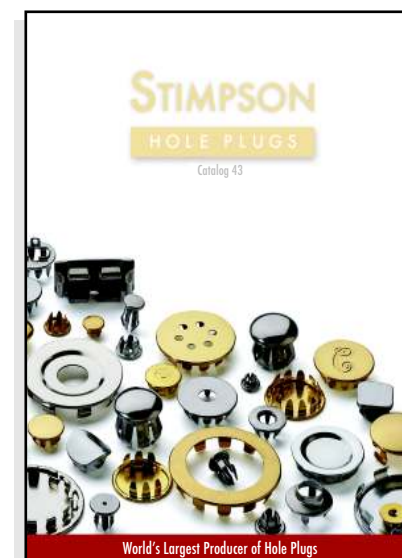
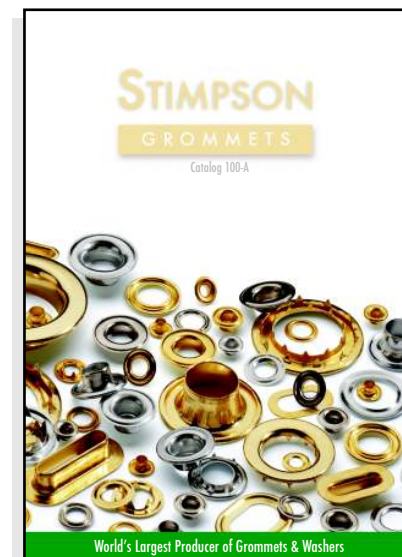
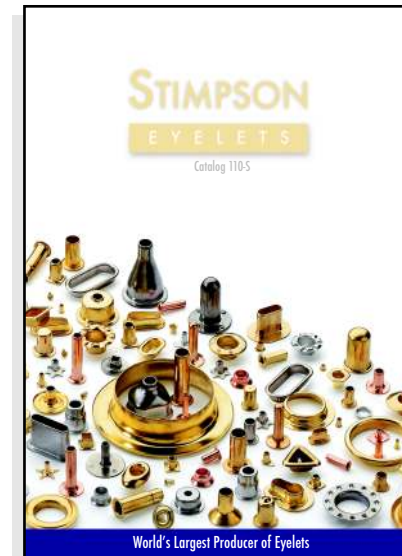
## Model 92 Grommet Machine



The Model 92 Series of grommet machines has been designed for more challenging applications such as heavy duty industrial fabrics or setting larger grommets. They offer upgraded power by using a stronger motor and larger flywheel. All Model 92 machines are semi-automatic which means the grommet is automatically fed but the washer, if needed, is manually placed on the lower die. The Model G2R92 version includes the double revolution feature to punch a hole in the material and then feed and set the grommet. It can accommodate all standard grommet sizes to a maximum of #5 rolled rim.

Please visit [www.stimpson.com](http://www.stimpson.com) for additional information and specifications.

## Additional Stimpson Catalogs



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1515 SW 13th Court, Pompano Beach, FL 33069  
 Toll Free: 877.765.0748 • Phone: 954.946.3500 • Fax: 954.545.7440  
 Email: [customer\\_service@stimpson.com](mailto:customer_service@stimpson.com) • Web: [www.stimpson.com](http://www.stimpson.com)

ISO 9001 Certified  
 RoHs • REACH • DFARS Compliant

# Stimpson<sup>®</sup> Sheet Metal Grommets

Sheet Metal Grommets - can be used interchangeably with plain, teeth or neck washers.

	<b>#00G</b> Hole Size 3/16" FLG .425 LUF .135 MT .009	<b>#0G</b> Hole Size 1/4" FLG .545 LUF .175 MT .012	<b>#1G</b> Hole Size 9/32" FLG .687 LUF .185 MT .012	<b>#1JG</b> Hole Size 9/32" FLG .680 LUF .263 MT .0126	<b>#2G</b> Hole Size 3/8" FLG .815 LUF .215 MT .013
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Plain Washers - basic reinforcement, providing support for the grommet setting.

	<b>#00W</b> ID .218 OD .460 MT .009	<b>#0W</b> ID .289 OD .546 MT .010	<b>#1W</b> ID .359 OD .700 MT .012	<b>#1W</b> ID .359 OD .700 MT .012	<b>#2W</b> ID .453 OD .835 MT .012
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Teeth Washers - a firmer, tighter grasp, particularly in woven materials.

	<b>#0TW</b> ID .290 OD .570 MT .0115	<b>#1TW</b> ID .350 OD .680 MT .014	<b>#1TW</b> ID .350 OD .680 MT .014	<b>#2TW</b> ID .468 OD .840 MT .012
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Neck Washers - telescoping, barrel to barrel setting, reinforces the hole with two entire parts.

	<b>#00NW*</b> FLG .425 LUF .125 MT .010	<b>#0NW*</b> FLG .531 LUF .100 MT .010	<b>#1NW*</b> FLG .705 LUF .105 MT .010	<b>#1NW*</b> FLG .705 LUF .105 MT .010	<b>#2NW*</b> FLG .840 LUF .095 MT .013
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\*Indicates scored washers.

## Telescoping Eyelets with Neck Washers

The eyelet alternative in a telescoping setting. Additional sizes are available.

	<b>A1445#00NW*</b> Hole Size .177 FLG .403/.425 LUF .210/.125 MT .0135/.010	<b>A1181#0NW*</b> Hole Size .273 FLG .535/.531 LUF .155/.100 MT .010/.010	<b>A1998#0NW*</b> Hole Size .270 FLG .540/.531 LUF .120/.100 MT .016/.010	<b>A1333/A1334</b> Hole Size .274 FLG .545/.562 LUF .145/.080 MT .013/.009
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\*Indicates scored washers.

## Stimpson Attaching Machines

Quality fasteners need to be supported by quality tooling and attaching machines. Whether your requirements are for a hand operated bench machine, or a fully automatic dual feed grommeting machine, Stimpson makes available to you the finest quality products in the marketplace...ensuring that your investment in new tooling or a new machine will be a wise one.

The following is intended to be a brief introduction of machinery offered by Stimpson Company, and therefore not all models or variations are shown.

For more information regarding Stimpson attaching machines and tooling, please ask to speak to one of our Machinery Customer Service Consultants, who will be happy to assist you. Additional information is also available on our website at [www.stimpson.com](http://www.stimpson.com).

**Note:** Safety devices as required are provided with your machine. Safety guards or other operational safety devices provided should never be removed, disabled or over-ridden during operation since they are designed to reduce the potential of injury to the operator.

\*Photographs may vary from actual machines due to minor design changes.



### Hand Drive

Used with a wooden or rawhide mallet, Stimpson Hand Drive Tools can be used to set most Stimpson products.



### Model 479

Model 479 is a hand feed machine, ideal where production is limited. It is available in either foot, pneumatic or electric power formats.

### Model 479 Foot Power

Height \_\_\_\_\_ 45"  
 Weight \_\_\_\_\_ 113 lbs.  
 Throat Depth \_\_\_\_\_ 4"  
 Stroke \_\_\_\_\_ 1-3/8"  
 Floor Space \_\_\_\_\_ 14" x 20"



### 405 Bench Press

Low cost and versatile, the 405 bench press is ideal for smaller projects or prototype work. It is especially well suited for setting Stimpson Self-Piercing Grommets & Washers in most lightweight fabrics. Made with a heavy duty aluminum frame.

Height \_\_\_\_\_ 12"  
 Weight \_\_\_\_\_ 10 lbs.  
 Throat Depth \_\_\_\_\_ 2-3/4"  
 Stroke \_\_\_\_\_ 1-3/4"  
 Bench Space \_\_\_\_\_ 3-1/2" x 9"



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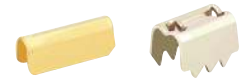
1515 SW 13th Court  
 Pompano Beach, FL 33069  
 (877) 765-0748 • Fax: (954) 545-7440  
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 E-Mail: [customer\\_service@stimpson.com](mailto:customer_service@stimpson.com)



# Additional Products

Clamps, Vents, Ferrules, Shells, Washers, Corners, Arrows and Spinners are additional products manufactured by Stimpson Company.

## Clamps



Stimpson manufactures a wide variety of clamps, which can be made with a single or double "u" shape, with or without teeth, or with lancings to improve pull and grip strengths.

## Vents



Stimpson's wide selection of vents and matching washers are most often used for air circulation or drainage in products such as mattresses, rain gear, boots and hats.

## Ferrules and Shells



Stimpson ferrules are made in a variety of configurations: straight or tapered, with or without a shoulder, closed ended and with virtually any shape hole.

## Washers



A large range of round, square, oblong and screw washers is available from Stimpson, in addition to those sold with our grommets, eyelets and vents.

## Corners



Stimpson corners are commonly found on leather and vinyl binders, personal day books, portfolios, luggage, photo albums, and menu covers.

## Arrows and Spinners



Whether the application is a board game, teaching aid, advertising novelty or instrument gauge, Stimpson's arrows and spinners will meet your requirements.

# Government Contracts

Approved, and in many cases, specified...Stimpson Grommets and Washers, Eyelets, Snap Fasteners, and Vents are manufactured in the United States of America and meet with the latest Military and Commercial Specifications. Stimpson Cage Code #57771. Displayed are some of our most requested items.



Military Specified Finishes



MIL-G-16491 NASM16491



MIL-E-20652



MS 20230



MIL-F-10884 MS 27980/81



Mail Bag Grommet & Washer



Boot Vent & Washer



Hat Vent & Washer

ISO 9001 Certified • RoHS • REACH • DFARS • Berry Amendment Compliant

# with Plain, Teeth and Neck Washers

Stimpson Grommets and Washers are made from brass, aluminum and zinc, and are available in base metal or with popular finishes such as nickel or dull black chemical. Many sizes available in stainless steel.

<p><b>#2JG</b> Hole Size 3/8"</p> <table border="1"> <tr><td>FLG</td><td>LUF</td><td>MT</td></tr> <tr><td>.840</td><td>.260</td><td>.016</td></tr> </table>	FLG	LUF	MT	.840	.260	.016	<p><b>#3G</b> Hole Size 7/16"</p> <table border="1"> <tr><td>FLG</td><td>LUF</td><td>MT</td></tr> <tr><td>.970</td><td>.295</td><td>.014</td></tr> </table>	FLG	LUF	MT	.970	.295	.014	<p><b>#4G</b> Hole Size 1/2"</p> <table border="1"> <tr><td>FLG</td><td>LUF</td><td>MT</td></tr> <tr><td>1.050</td><td>.374</td><td>.016</td></tr> </table>	FLG	LUF	MT	1.050	.374	.016	<p><b>#5G</b> Hole Size 5/8"</p> <table border="1"> <tr><td>FLG</td><td>LUF</td><td>MT</td></tr> <tr><td>1.220</td><td>.330</td><td>.016</td></tr> </table>	FLG	LUF	MT	1.220	.330	.016	<p><b>#6G</b> Hole Size 13/16"</p> <table border="1"> <tr><td>FLG</td><td>LUF</td><td>MT</td></tr> <tr><td>1.750</td><td>.232</td><td>.020</td></tr> </table>	FLG	LUF	MT	1.750	.232	.020
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**PACKAGING:** Normally Grommets and Washers are shipped in bulk, however they may also be packed in 1, 5 or 10 gross boxes at additional cost. Self-Piercing Grommets and Washers are packed 500 pieces to a box at no additional cost.

**AVAILABILITY:** Stimpson maintains the largest inventory of Grommets and Washers in the industry. In most cases, even orders calling for popular finishes will be in stock.

**GOVERNMENT CONTRACTS:** Stimpson Grommets and Washers conform to U.S. Military specifications and may be ordered by Military Type and Class Numbers.

All dimensions are in inches. Photos approximate actual size. Hole size is approximate measurement after setting.

ID= Inside Diameter, OD = Outside Diameter, FLG = Flange Diameter, LUF = Length Under Flange, MT= Metal Thickness

## "Swatch Book" Eyelet and Washer

The flat design of both the Eyelet and the Washer make these parts ideal for use with fabric samples, sample books and display racks.

<b>A3717 / C317</b>			
Eyelet Dimensions			
OD	FLG	LUF	MT
.516/.497"	.875	.140"	.010"
Washer Dimensions			
ID	OD	MT	
.580"	.875"	.013"	



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1515 SW 13th Court, Pompano Beach, FL 33069

(877) 765-0748 • Fax: (954) 545-7440

Web Site: [www.stimpson.com](http://www.stimpson.com) • E-Mail: [customer\\_service@stimpson.com](mailto:customer_service@stimpson.com)

# Rolled Rim Grommets with Spur Washers

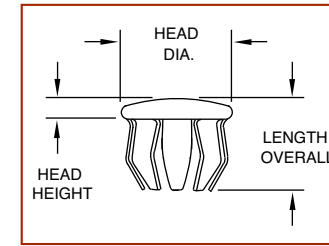
Stimpson Rolled Rim Grommets and Spur Washers are available in brass and zinc, with some sizes also offered in stainless steel. These parts interlock, their teeth grasping the material, to provide a rugged, unyielding setting. Offered in popular finishes such as nickel and dull black chemical.

 <b>#0RRG HOLE - 9/32"</b> FLG - .670 LUF - .175 MT - .016  <b>#0SW</b> ID - .345 OD - .645 MT - .016	 <b>#0LRRG HOLE - 9/32"</b> FLG - .670 LUF - .240 MT - .016  <b>#0SW</b> ID - .345 OD - .645 MT - .016	 <b>#0XLRRG HOLE - 9/32"</b> FLG - .670 LUF - .300 MT - .016  <b>#0SW</b> ID - .345 OD - .645 MT - .016	 <b>#1RRG HOLE - 13/32"</b> FLG - .790 LUF - .205 MT - .016  <b>#1SW</b> ID - .455 OD - .790 MT - .016
 <b>#2RRG HOLE - 7/16"</b> FLG - .890 LUF - .255 MT - .018  <b>#2SW</b> ID - .512 OD - .890 MT - .018	 <b>#2XLRRG HOLE - 7/16"</b> FLG - .890 LUF - .348 MT - .018  <b>#2SW</b> ID - .512 OD - .890 MT - .018	 <b>#3RRG HOLE - 15/32"</b> FLG - .970 LUF - .255 MT - .020  <b>#3SW</b> ID - .537 OD - .970 MT - .020	 <b>#4RRG HOLE - 9/16"</b> FLG - 1.120 LUF - .320 MT - .020  <b>#4SW</b> ID - .645 OD - 1.120 MT - .020
 <b>#5RRG HOLE - 5/8"</b> FLG - 1.285 LUF - .380 MT - .021  <b>#5SW</b> ID - .777 OD - 1.270 MT - .021	 <b>#6RRG HOLE - 3/4"</b> FLG - 1.535 LUF - .420 MT - .025  <b>#6SW</b> ID - .875 OD - 1.505 MT - .025	 <b>#7RRG HOLE - 29/32"</b> FLG - 1.725 LUF - .446 MT - .020  <b>#7SW</b> ID - 1.062 OD - 1.725 MT - .020	 <b>#8RRG HOLE - 1-3/32"</b> FLG - 1.865 LUF - .465 MT - .025  <b>#8SW</b> ID - 1.195 OD - 1.910 MT - .020

**D5282 HOLE - 1-1/2"**  
 FLG - 2.390 LUF - .355 MT - .020

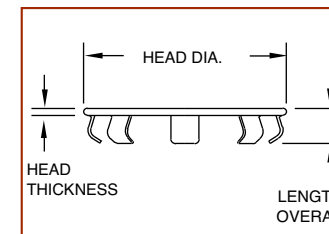
**D5274**  
 ID - 1.560 OD - 2.360 MT - .020

# Tubing Hole Plugs



<b>D4167</b> Tube Ins Dia 1/4 to 9/32 Tube Out Dia 25/64  Head Dia 25/64 Head Ht 3/32 L Overall 9/16	<b>D4149</b> Tube Ins Dia 3/8 Tube Out Dia 17/32  Head Dia 17/32 Head Ht 1/16 L Overall 25/64	<b>D4410</b> Tube Ins Dia 29/64 Tube Out Dia 17/32  Head Dia 17/32 Head Ht 5/64 L Overall 25/64
<b>D3031</b> Tube Ins Dia 7/8 Tube Out Dia 1  Head Dia 63/64 Head Ht 7/32 L Overall 3/4	<b>D5608</b> Tube Ins Dia 1-13/32 Square Tube Out Dia 1-13/32 Square  Head Dia 1-9/16 sq Head Ht 9/64 L Overall 9/16	

# Electrical Knockout Plugs



<b>D3683</b> Elect KO Size 1/2  Head Dia 1-5/64 Head Thk 1/16 L Overall 23/64	<b>D3720</b> Elect KO Size 3/4  Head Dia 1-1/4 Head Thk 1/16 L Overall 5/16	<b>D3833</b> Elect KO Size 1  Head Dia 1-1/2 Head Thk 5/64 L Overall 11/32
<b>D3916</b> Elect KO Size 1-1/4  Head Dia 1-13/16 Head Thk 1/16 L Overall 5/16	<b>D3924</b> Elect KO Size 1-1/2  Head Dia 2-7/32 Head Thk 5/64 L Overall 23/64	<b>D4455</b> Elect KO Size 2  Head Dia 2-11/16 Head Thk 5/64 L Overall 3/8

# Stimpson Special Hole Plugs

<b>D4110</b> Special Character Turned in Legs Hole Dia 1/2  Thk of Wk 1/32 to 1/16 Head Dia & Ht 21/32 - 5/64 L Overall 7/32	<b>D4603</b> Special Character Prong Variation Hole Dia 3/4  Thk of Wk 1/16 to 3/32 Head Dia & Ht 59/64 - 5/64 L Overall 19/64	<b>D4298</b> Special Character Hole in Head Hole Dia 9/16  Thk of Wk 1/32 to 3/32 Head Dia & Ht 23/32 - 1/16 L Overall 9/32	<b>D5590</b> Special Character Extruded Head Hole Dia 5/8  Thk of Wk 1/32 Head Dia & Ht 13/16 - 7/64 L Overall 11/32	<b>D5617</b> Special Character Mesh Top Hole Dia 5/8  Thk of Wk .015 to .020 Head Dia & Ht 13/16 - 3/64 L Overall 15/64
<b>D5655</b> Special Character Sq/Pointed Prongs Hole Dia 0.92 sq  Thk of Wk 0.093 sq Head Dia & Ht 1-5/64 - 1/16 L Overall 23/64	<b>D5660</b> Special Character Rect/Reverse Legs Hole Dia 1-5/32-13/32  Thk of Wk Tubing Head Dia & Ht 1-1/4 - 1/2 rect - 3/32 L Overall 11/32			



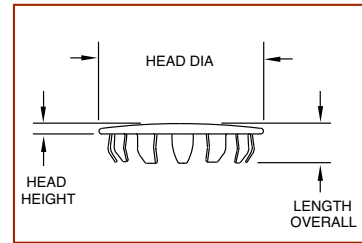


# Hole Plugs

We've chosen some of our most popular Hole Plugs for display on these pages. However, if you can't find one to fit your requirements, don't be concerned for we have over 300 additional Hole Plugs to choose from. In addition, new Hole Plugs are continually being developed to meet our customers' special applications.

Most of our Hole Plugs can be made from brass, steel and #1050 carbon steel, as your need requires. Other metals, such as stainless steel, are available for special situations. With minor tooling modifications most parts can be furnished stamped with your logo, with a different hole size in head, or with one or more prongs removed.

## Standard Hole Plugs



<b>D3159</b> Hole Dia 1/8 Thk of Work 3/64 to 5/64  Head Dia 21/64 Head Ht 1/16 L Overall 15/64	<b>D2707</b> Hole Dia 3/16 Thk of Work 1/64 to 1/16  Head Dia 11/32 Head Ht 5/64 L Overall 13/64	<b>D2587</b> Hole Dia 1/4 Thk of Work 1/32 to 1/16  Head Dia 13/32 Head Ht 1/16 L Overall 15/64	<b>D2666</b> Hole Dia 9/32 Thk of Work 1/64 to 1/16  Head Dia 13/32 Head Ht 1/16 L Overall 17/64	<b>D2730</b> Hole Dia 5/16 Thk of Work 3/64 to 5/64  Head Dia 7/16 Head Ht 1/16 L Overall 1/4	
<b>D3005</b> Hole Dia 3/8 Thk of Work 3/64 to 1/16  Head Dia 1/2 Head Ht 1/16 L Overall 15/64	<b>D2783</b> Hole Dia 7/16 Thk of Work 1/32 to 1/16  Head Dia 21/32 Head Ht 5/64 L Overall 1/4	<b>D3161</b> Hole Dia 1/2 Thk of Work 1/32 to 1/16  Head Dia 21/32 Head Ht 5/64 L Overall 9/32	<b>D3558</b> Hole Dia 9/16 Thk of Work 3/64 to 3/32  Head Dia 23/32 Head Ht 1/16 L Overall 9/32	<b>D2859</b> Hole Dia 5/8 Thk of Work 1/16 to 3/32  Head Dia 13/16 Head Ht 5/64 L Overall 19/64	<b>D2690</b> Hole Dia 3/4 Thk of Work 1/16 to 3/32  Head Dia 59/64 Head Ht 5/64 L Overall 19/64
<b>D3560</b> Hole Dia 7/8 Thk of Work 1/16 to 3/32  Head Dia 1-1/16 Head Ht 1/16 L Overall 19/64	<b>D3550</b> Hole Dia 1 Thk of Work 1/8 to 5/32  Head Dia 1-9/64 Head Ht 3/32 L Overall 21/64	<b>D3561</b> Hole Dia 1-1/8 Thk of Work 1/32 to 1/8  Head Dia 1-5/16 Head Ht 3/32 L Overall 11/32	<b>D3463</b> Hole Dia 1-1/4 Thk of Work 1/16 to 3/32  Head Dia 1-7/16 Head Ht 3/32 L Overall 11/32		
<b>D3868</b> Hole Dia 1-3/8 Thk of Work 3/64 to 1/8  Head Dia 1-9/16 Head Ht 5/64 L Overall 13/32	<b>D3632</b> Hole Dia 1-1/2 Thk of Work 1/32 to 1/16  Head Dia 1-41/64 Head Ht 3/32 L Overall 13/32	<b>D4212</b> Hole Dia 1-5/8 Thk of Work 1/32 to 1/8  Head Dia 1-13/16 Head Ht 7/64 L Overall 23/64	<b>D4197</b> Hole Dia 1-3/4 Thk of Work 1/32 to 3/32  Head Dia 1-15/16 Head Ht 3/32 L Overall 11/32		
<b>D3103</b> Hole Dia 2 Thk of Work 1/32 to 1/16  Head Dia 2-1/4 Head Ht 1/8 L Overall 5/16					



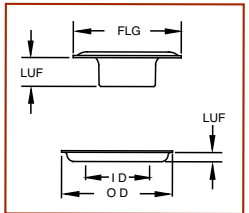
ISO 9001 Certified

1515 SW 13th Court, Pompano Beach, FL 33069  
 (877) 765-0748 • Fax: (954) 545-7440

Web Site: [www.stimpson.com](http://www.stimpson.com) • E-Mail: [customer\\_service@stimpson.com](mailto:customer_service@stimpson.com)

All dimensions are in inches.  
 All photos approximate actual size.

# Self-Piercing Grommets & Washers



Stimpson Self-Piercing Grommets and Washers are available in brass, can be furnished with a nickel or dull black chemical finish and can be used with Stimpson's "no hole needed" tooling or with the existing self-piercing tooling widely available in the marketplace.

## Self-Piercing Grommets

<b>#0SPG HOLE - 1/4"</b> FLG - .550 LUF - .165 MT - .015 	<b>#1SPG HOLE - 5/16"</b> FLG - .630 LUF - .200 MT - .015 	<b>#1XLSPG HOLE - 5/16"</b> FLG - .630 LUF - .320 MT - .015 
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## Self-Piercing Washers

<b>#0SPW</b> ID - .337 OD - .575 MT - .011 	<b>#1SPW</b> ID - .400 OD - .655 MT - .011 	<b>#1SPW</b> ID - .400 OD - .655 MT - .011 
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## Self-Piercing Grommets

<b>#2SPG HOLE - 3/8"</b> FLG - .750 LUF - .200 MT - .015 	<b>#3SPG HOLE - 7/16"</b> FLG - .970 LUF - .185 MT - .015 
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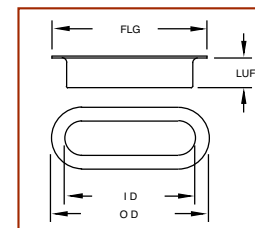
## Self-Piercing Washers

<b>#2SPW</b> ID - .437 OD - .770 MT - .011 	<b>#3SPW</b> ID - .546 OD - .970 MT - .011 
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Terminology: LUF = Length Under Flange, FLG = Flange Diameter, ID = Inside Diameter, OD = Outside Diameter, MT = Metal Thickness

# Oblong Grommets & Washers

Stimpson Oblong Grommets and Washers are offered in brass, aluminum, zinc and stainless steel. Some of our most popular sizes are displayed below.

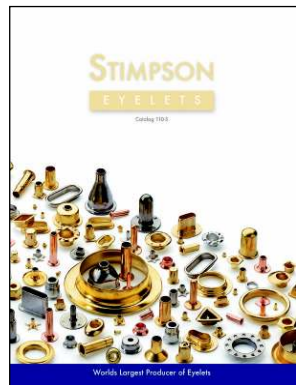


<b>A670/C501</b>  <table border="1"> <tr> <th colspan="2">Grommet Dimensions</th> <th colspan="2">Washer Dimensions</th> </tr> <tr> <td>FLG</td> <td>LUF</td> <td>ID</td> <td>OD</td> </tr> <tr> <td>1.315 X .665</td> <td>.225</td> <td>.268 X .923</td> <td>.625 X 1.286</td> </tr> </table>	Grommet Dimensions		Washer Dimensions		FLG	LUF	ID	OD	1.315 X .665	.225	.268 X .923	.625 X 1.286	<b>A671/C264</b>  <table border="1"> <tr> <th colspan="2">Grommet Dimensions</th> <th colspan="2">Washer Dimensions</th> </tr> <tr> <td>FLG</td> <td>LUF</td> <td>ID</td> <td>OD</td> </tr> <tr> <td>2.015 X .915</td> <td>.332</td> <td>.420 X 1.532</td> <td>.915 X 2.010</td> </tr> </table>	Grommet Dimensions		Washer Dimensions		FLG	LUF	ID	OD	2.015 X .915	.332	.420 X 1.532	.915 X 2.010	<b>A1496/C714</b>  <table border="1"> <tr> <th colspan="2">Grommet Dimensions</th> <th colspan="2">Washer Dimensions</th> </tr> <tr> <td>FLG</td> <td>LUF</td> <td>ID</td> <td>OD</td> </tr> <tr> <td>2.375 X .965</td> <td>.308</td> <td>.468 X 1.812</td> <td>.968 X 2.375</td> </tr> </table>	Grommet Dimensions		Washer Dimensions		FLG	LUF	ID	OD	2.375 X .965	.308	.468 X 1.812	.968 X 2.375								
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<b>A591/C189</b>  <table border="1"> <tr> <th colspan="2">Grommet Dimensions</th> <th colspan="2">Washer Dimensions</th> </tr> <tr> <td>FLG</td> <td>LUF</td> <td>ID</td> <td>OD</td> </tr> <tr> <td>1.125 X .690</td> <td>.222</td> <td>.400 X .800</td> <td>.685 X 1.125</td> </tr> </table>	Grommet Dimensions		Washer Dimensions		FLG	LUF	ID	OD	1.125 X .690	.222	.400 X .800	.685 X 1.125	<b>A113/C118</b>  <table border="1"> <tr> <th colspan="2">Grommet Dimensions</th> <th colspan="2">Washer Dimensions</th> </tr> <tr> <td>FLG</td> <td>LUF</td> <td>ID</td> <td>OD</td> </tr> <tr> <td>1.406 X .565</td> <td>.269</td> <td>.312 X 1.187</td> <td>.562 X 1.437</td> </tr> </table>	Grommet Dimensions		Washer Dimensions		FLG	LUF	ID	OD	1.406 X .565	.269	.312 X 1.187	.562 X 1.437	<b>A3537*/C829*</b>  <table border="1"> <tr> <th colspan="2">Grommet Dimensions</th> <th colspan="2">Washer Dimensions</th> </tr> <tr> <td>FLG</td> <td>LUF</td> <td>ID</td> <td>OD</td> </tr> <tr> <td>1.405 X 1.035</td> <td>.285</td> <td>.925 X .575</td> <td>1.405 X 1.035</td> </tr> <tr> <td></td> <td>MT</td> <td></td> <td>MT</td> </tr> <tr> <td></td> <td>.014</td> <td></td> <td>.014</td> </tr> </table>	Grommet Dimensions		Washer Dimensions		FLG	LUF	ID	OD	1.405 X 1.035	.285	.925 X .575	1.405 X 1.035		MT		MT		.014		.014
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\* Indicates embossed oblong grommet & washer.

# An Introduction to Stimpson® Eyelets

No matter where you are, you're always surrounded by STIMPSON EYELETS. They're all over your home: in your appliances, electrical circuits, tools, children's toys, clothing, shoes, sneakers, furniture, lighting fixtures, outlets and switches, heating units, alarms, and more. They'll surround you in your car, on planes, trains, buses...even in space shuttles; and when you go to work, shopping or the gym, you'll find them there also.



Small, inexpensive, and often not seen, STIMPSON EYELETS are an indispensable ingredient in the successful production of most every manufacturing industry. On the pages that follow, we will introduce you to some of the over 3,800 sizes and styles we ship worldwide. For more information regarding STIMPSON EYELETS, please request our Eyelet Catalog.

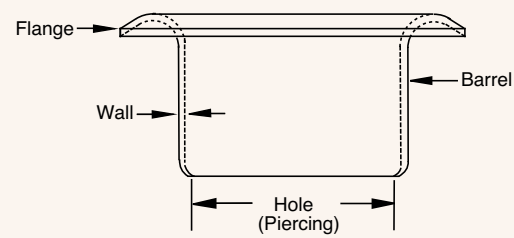
We now provide the following "Introduction to Stimpson Eyelets" to acquaint you with their many characteristics, and we invite you to speak with our Customer Service

Representatives about your eyeletting needs. STIMPSON EYELETS are the low cost, reliable solution to thousands of fastening requirements.

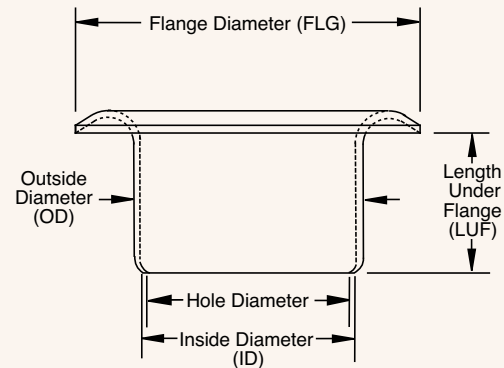
## Standard Tolerances

Dimensions	Tolerance
Flange Diameter	+/- .005"
Outside Diameter	+/- .002"
Length Under Flange	+/- .005"
Hole Diameter	usually .005" smaller than mean inside diameter

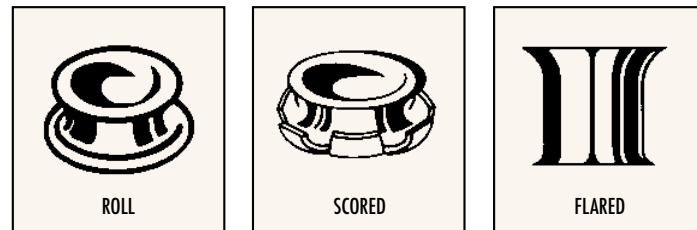
## Terminology



## Measuring the Eyelet



## Settings



There are three basic types of settings...Roll (or coil), Scored, or Flared.

The most common is the Roll which provides a smooth, rounded, uniform surface.

A Scored setting divides the end of the barrel into equal segments to provide extra grip strength in soft materials.

A Flared setting is commonly used in PC boards and provides a funnel appearance often used for soldering.

# Snap Fasteners

## Ring Snap Sets

	SET D4617 (24 Line)	SET D4902 (20 Line)	SET D4862 (20 Line Long)
CAP	D4543 Cap Diameter .598 Length Under Cap .177	D4861 Cap Diameter .510 Length Under Cap .142	D4861 Cap Diameter .510 Length Under Cap .142
SOCKET	D4511	D4858	D4858
STUD	D4547	D4859	D4859
POST	D4629 Head Diameter .562 Length Under Head .239	D4902 Head Diameter .495 Length Under Head .179	D4862 Head Diameter .495 Length Under Head .234

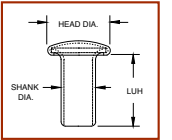
The combinations displayed are a representation of the variety of quality Snap Fasteners offered by Stimpson.

Most Snap Fasteners are available in both brass and steel, with varying sized posts to accommodate material thickness. Popular finishes include nickel and dull black chemical.

Stimpson Ring Snaps conform to MIL-F-10884, MS 27980 and MS 27981.



# CE® Rivets



## CE® 75 Series - Roll Setting

Rivet	Shank Dia.	Head Dia.	L.U.H.
CE® 75 2/16	.091	.192	.125
CE® 75 3/16	.091	.192	.187
CE® 75 4/16	.091	.192	.250
CE® 75 5/16	.091	.192	.312

## CE® 100 Series - Roll Setting

Rivet	Shank Dia.	Head Dia.	L.U.H.
CE® 100 5/32	.120	.224	.156
CE® 100 7/32	.120	.224	.218
CE® 100 4/16	.120	.224	.250
CE® 100 5/16	.123	.224	.312
CE® 100 6/16	.123	.224	.375
CE® 100 7/16	.123	.224	.437
CE® 100 8/16	.123	.224	.500
CE® 100 9/16	.123	.224	.562

## CE® 123 Series - Scored Setting

Rivet	Shank Dia.	Head Dia.	L.U.H.
CE® 123 4/16	.142	.315	.250
CE® 123 5/16	.142	.315	.312
CE® 123 6/16	.142	.315	.375
CE® 123 7/16	.142	.315	.437

## CE® 125 Series - Roll Setting

Rivet	Shank Dia.	Head Dia.	L.U.H.
CE® 125 3/16	.142	.315	.187
CE® 125 4/16	.142	.315	.250
CE® 125 5/16	.142	.315	.312
CE® 125 6/16	.142	.315	.375
CE® 125 7/16	.142	.315	.437
CE® 125 8/16	.142	.315	.500

CE® Rivets are made from brass and steel. They can be plated in nickel, brass, antique bronze or a variety of other finishes. Designed for today's light to medium riveting applications, CE® Rivets are uniform, strong and coil better than conventional tubular rivets. A full line of foot, electric and pneumatic machines supports their application.



# For Tags, Envelopes, Binders and Polybags

Designed and manufactured to run in today's high speed machinery, Stimpson eyelets provide the exacting tolerances needed to ensure uninterrupted production. These proven industry standards have been developed over time to meet almost any production requirement.

## "Tag and Polybag" Flat Flange Eyelets

<b>A3730</b> Zinc  OD LUF FLG MT .194/.188 .089 .256 .0115	<b>A1951</b> Zinc  OD LUF FLG MT .195/.190 .093 .254 .0115	<b>A168</b> Aluminum, Brass, Zinc  OD LUF FLG MT .196 .095 .250 .008	<b>A34</b> Brass  OD LUF FLG MT .215/.205 .092 .330 .008	<b>A2491</b> Aluminum, Brass, Zinc  OD LUF FLG MT .245 .095 .324 .010
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<b>A35</b> Brass, Steel, Zinc  OD LUF FLG MT .260/.250 .132 .375 .008	<b>A2658</b> Aluminum, Brass, Steel  OD LUF FLG MT .341 .115 .450 .008	<b>A36</b> Aluminum, Brass, Zinc  OD LUF FLG MT .342 .092 .460 .008	<b>A38</b> Brass & Zinc  OD LUF FLG MT .343 .131 .468 .009	<b>A558</b> Brass & Zinc  OD LUF FLG MT .356 .110 .475 .010
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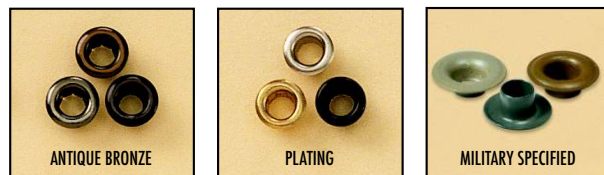
## "Button & String Envelope" Eyelets

<b>A22</b> Brass & Zinc  OD LUF FLG MT .148/.140 .149 .218 .007	<b>A1119</b> Brass & Zinc (scored)  OD LUF FLG MT .151/.147 .117 .225 .008	<b>A3576</b> Brass  OD LUF FLG MT .148/.140 .148 .218 .008	<b>A3577</b> Brass  OD LUF FLG MT .151/.147 .117 .225 .008
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## Rolled Flange Eyelets for "Ribbons, Folders, Financial & Legal Documents"

<b>A942</b> Aluminum, Brass, Steel  OD LUF FLG MT .185 .145 .312 .008	<b>A211</b> Aluminum, Brass, Zinc  OD LUF FLG MT .185 .147 .285 .010	<b>A737</b> Brass  OD LUF FLG MT .185/.175 .182 .285 .010	<b>A740</b> Aluminum, Brass  OD LUF FLG MT .185 .102 .285 .009
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# Eyelets for Apparel



Stimpson Apparel Eyelets are made to industry and military standards with decorative flanges as well as popular finishes such as nickel, brass, various shades of antique bronze and military specified colors.

## Industry Standards Eyelets with Matching Washers

<b>A2058</b> Brass & Steel  OD LUF FLG MT .183 .142 .300 .010	<b>A942</b> Aluminum, Brass, Steel  OD LUF FLG MT .185 .145 .312 .008	<b>A289</b> Brass, Steel  OD LUF FLG MT .215 .165 .390 .008	<b>A618</b> Aluminum, Brass, Steel  OD LUF FLG MT .273 .185 .450 .008	<b>A500</b> Aluminum, Brass, Steel  OD LUF FLG MT .332 .185 .593 .010	<b>A928</b> Brass  OD LUF FLG MT .413 .250 .750 .014
<b>C62</b>  ID OD .218 .375	<b>C63</b>  ID OD .188 .375	<b>C790</b>  ID OD .220 .463	<b>C83</b>  ID OD .289 .546	<b>C84</b>  ID OD .359 .700	<b>C85</b>  ID OD .453 .835

## The Flange



**Rolled Flange:** A finished and decorative appearance makes the Rolled Flange a popular choice. When set, the under edges of the flange lend well to obtaining a tight setting by gripping the work.



**Flat Flange:** Usually selected when minimum above surface projection is desired, or where a recessed hole is used for clearance requirements. In soft or thin materials they may be chosen to avoid the flange cutting through the material.



**Embossed Flange:** Combines the contour of the rolled and flat flange to provide the holding power of the roll with a flat outer edge to reduce the chance of cutting through the work.



**Funnel Flange:** Popular in the electronics industry for easy insertion of leads, and/or trapping of solder flow on PC boards. Used for costume jewelry where gem stones are glued into the funnel contour.



**Bell Flange:** Also ideal for easy acceptance of leads. The rounded inner contour reduces abrasion where wire, cord, or rope is passed through the length of the barrel.



**Clipped Flange:** Where space constraints require virtually no flange, the usual flange area is clipped (trimmed) as close as possible to the outside diameter of the barrel.

## The Barrel



**Straight Barrel:** Straight barrel eyelets are the most commonly used. The holes in the materials to be fastened together are usually the same size, and the straight barrel aids in alignment.



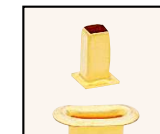
**Tapered Barrel:** The barrel has a definite tapering down of diameter from just under the flange to the bottom end. Desirable primarily in fastening soft materials since the taper provides an easy insertion into the work.



**Shoulder Eyelets:** So called because the barrel consists of two distinct diameters resulting in a stepped shoulder effect. Used to join parts with dissimilar hole sizes, or with the upper (larger) barrel portion acting as a spacer.



**Closed End:** A closed end can be used to fasten different pieces together while eliminating the pass through of air, dirt, grease, or other foreign matter. To set, the end of the barrel is bumped to collapse tightly against the work pieces.



**Oblong and Square Barrels:** In addition to the most common barrel styles described above, Oblong and Square Barrels are popular for specialized applications.



**Pre-Coiled:** Normally used as spacers, they are frequently molded in place in rubber or plastics.

## Coil/Grip Ranges

No two applications being alike, it's impossible to offer specific standards as to how much barrel length there should be to obtain proper coil/grip. Too much length can result in barrel buckling (collapsing). Too little may mean loss of grip strength. Rigid materials usually need less; soft flexible materials will need more, as a wide coil (to grip more material) is desirable. If parts fastened are exposed to unusual stresses, extra length is usually desirable, even though materials may be rigid in nature.

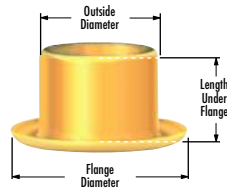
As a general guide in preliminary selection, the following should be helpful:

Eyelet Diameter:	3/64" to 1/16"	3/32" to 1/8"	5/32" to 3/16"	1/4" or more
Additional Length:	1/32"	1/16"	3/32"	1/8"

For final determination as to proper length, after selecting an eyelet let us make actual settings for your functional testing. Or, send samples of your components and we'll select an eyelet and forward the settings for your review.



# GS® Eyelets

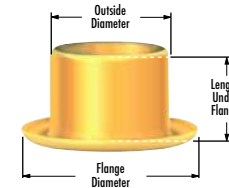


Simpson "Graduated Size" (GS®) Eyelets are as their name indicates...a system of standard eyelets incorporating a series of graduated increases (1/32 of an inch) in both length and outside barrel diameters. The result is 72 eyelets which will meet the requirements of most general purpose eyeleting applications. GS® Eyelets are most commonly requested in brass, and are normally inventoried in large quantities. GS® Eyelets can also be made from steel, stainless steel, aluminum and copper.

72 Graduated Size eyelets, teamed with Simpson's economical eyeleting machines, offer the highest quality system in the industry, at the lowest cost.

INCHES	LENGTH UNDER FLANGE												
	2/32	3/32	4/32	5/32	6/32	7/32	8/32	9/32	10/32	11/32	12/32	13/32	14/32
OUTSIDE DIAMETER													
FLANGE DIAMETER													
METAL THICKNESS													
OUTSIDE DIAMETER													
FLANGE DIAMETER													
METAL THICKNESS													
OUTSIDE DIAMETER													
FLANGE DIAMETER													
METAL THICKNESS													
OUTSIDE DIAMETER													
FLANGE DIAMETER													
METAL THICKNESS													
OUTSIDE DIAMETER	GS 2-2	GS 2-3	GS 2-4	GS 2-5	GS 2-6	GS 2-7							
OUTSIDE DIAMETER													
FLANGE DIAMETER													
METAL THICKNESS													
OUTSIDE DIAMETER													
FLANGE DIAMETER													
METAL THICKNESS													
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OUTSIDE DIAMETER													
FLANGE DIAMETER													
METAL THICKNESS													

# Shoe Eyelets



Invisible



Rolled



Scored



Hexagon

<b>#1 INVISIBLE</b> A2601* Aluminum OD .230/.209 LUF .135 FLG .333 MT .014	<b>#2 INVISIBLE</b> A3639* Aluminum OD .184/.156 LUF .136 FLG .298 MT .014	<b>#3 INVISIBLE</b> A2068* Aluminum OD .175/.146 LUF .124 FLG .255 MT .016	<b>#00 ROLL</b> A1967 Aluminum OD .277 LUF .157 FLG .490 MT .016	<b>#00 ROLL</b> A2400 Brass OD .275 LUF .150 FLG .495 MT .011	<b>#00 LONG ROLL</b> A3625 Aluminum OD .282 LUF .182 FLG .493 MT .016
<b>J.L. ROLL</b> A1942 Aluminum OD .321/.288 LUF .222 FLG .515 MT .018	<b>J.L. ROLL</b> A3165 Brass & Steel OD .290/.270 LUF .225 FLG .510 MT .013			<b>#00 LONG ROLL</b> A2620 Brass & Steel OD .280/.272 LUF .180 FLG .488 MT .012	<b>#00 EX. LONG ROLL</b> A3654 Aluminum OD .280 LUF .210 FLG .495 MT .016
<b>AA ROLL</b> A2269 Aluminum OD .220 LUF .168 FLG .390 MT .015	<b>AA ROLL</b> A2605 Brass & Steel OD .215 LUF .150 FLG .390 MT .008	<b>AA SCORED</b> A2272* Aluminum OD .220 LUF .168 FLG .390 MT .015	<b>AA SCORED</b> A289* Brass & Steel OD .215 LUF .165 FLG .390 MT .008	<b>AA LONG ROLL</b> A2030 Aluminum OD .220 LUF .188 FLG .390 MT .015	<b>AA LONG ROLL</b> A2617 Brass & Steel OD .215 LUF .188 FLG .388 MT .010
<b>AA EX. LONG ROLL</b> A3138 Aluminum & Brass OD .227/.220 LUF .220 FLG .385 MT .018	<b>AA EX. LONG ROLL</b> A3433 Brass OD .228 LUF .217 FLG .390 MT .012	<b>AA LONG SCORED</b> A2711* Brass OD .215 LUF .190 FLG .388 MT .010	<b>AA EX. LONG SCORED</b> A3592* Brass OD .215 LUF .215 FLG .388 MT .010	<b>#1 ROLL</b> A1928 Aluminum OD .208/.192 LUF .142 FLG .345 MT .016	<b>#1 ROLL</b> A2282 Brass OD .204 LUF .153 FLG .343 MT .011
<b>#1 SCORED</b> A2000* Aluminum OD .201 LUF .155 FLG .345 MT .016	<b>#1 SCORED</b> A2041* Brass & Steel OD .204 LUF .153 FLG .343 MT .011	<b>#1 LONG ROLL</b> A1979 Aluminum OD .200/.190 LUF .182 FLG .343 MT .016	<b>#1 LONG ROLL</b> A2380 Brass OD .204 LUF .185 FLG .345 MT .009	<b>#1 EX. LONG ROLL</b> A1685 Aluminum OD .200 LUF .212 FLG .343 MT .016	<b>#1 LONG SCORED</b> A2374* Aluminum OD .200/.190 LUF .187 FLG .343 MT .016
<b>#2 ROLL</b> A2187 Aluminum OD .177 LUF .138 FLG .300 MT .016	<b>#2 ROLL</b> A1387 Brass OD .173 LUF .142 FLG .300 MT .012	<b>#2 SCORED</b> A2101* Aluminum OD .177 LUF .138 FLG .300 MT .016	<b>#2 SCORED</b> A2058* Brass & Steel OD .183 LUF .142 FLG .300 MT .010	<b>#2 LONG ROLL</b> A2343 Aluminum OD .180 LUF .165 FLG .300 MT .013	<b>#2 EX. LONG ROLL</b> A2627 Aluminum & Brass OD .180 LUF .190 FLG .300 MT .013
<b>#3 SCORED</b> A2227* Aluminum OD .157 LUF .122 FLG .253 MT .015	<b>#4 ROLL</b> A2013 Brass OD .157 LUF .102 FLG .235 MT .010	<b>#5 ROLL</b> A2232 Aluminum OD .127 LUF .105 FLG .195 MT .012	<b>SMALL HEXAGON</b> A3660 Brass OD .185 LUF .175 FLG .330 MT .011	<b>LARGE HEXAGON LONG</b> A3467 Brass OD .224 LUF .212 FLG .463 MT .012	<b>MILITARY BOOT</b> A2639 Aluminum OD .297/.285 LUF .198 FLG .490 MT .016
<b>#505 EYELET</b> A2095 Telo Aluminum OD .307/.295 LUF .150 FLG .537 MT .016	<b>#303 WASHER</b> A1950* Telo Aluminum OD .335 LUF .100 FLG .545 MT .009				

Terminology: OD = Outside Diameter. Eyelets with two OD measurements indicate a tapered barrel. LUF = Length Under Flange, FLG = Flange Diameter, MT = Metal Thickness  
\* Indicates scored eyelet.