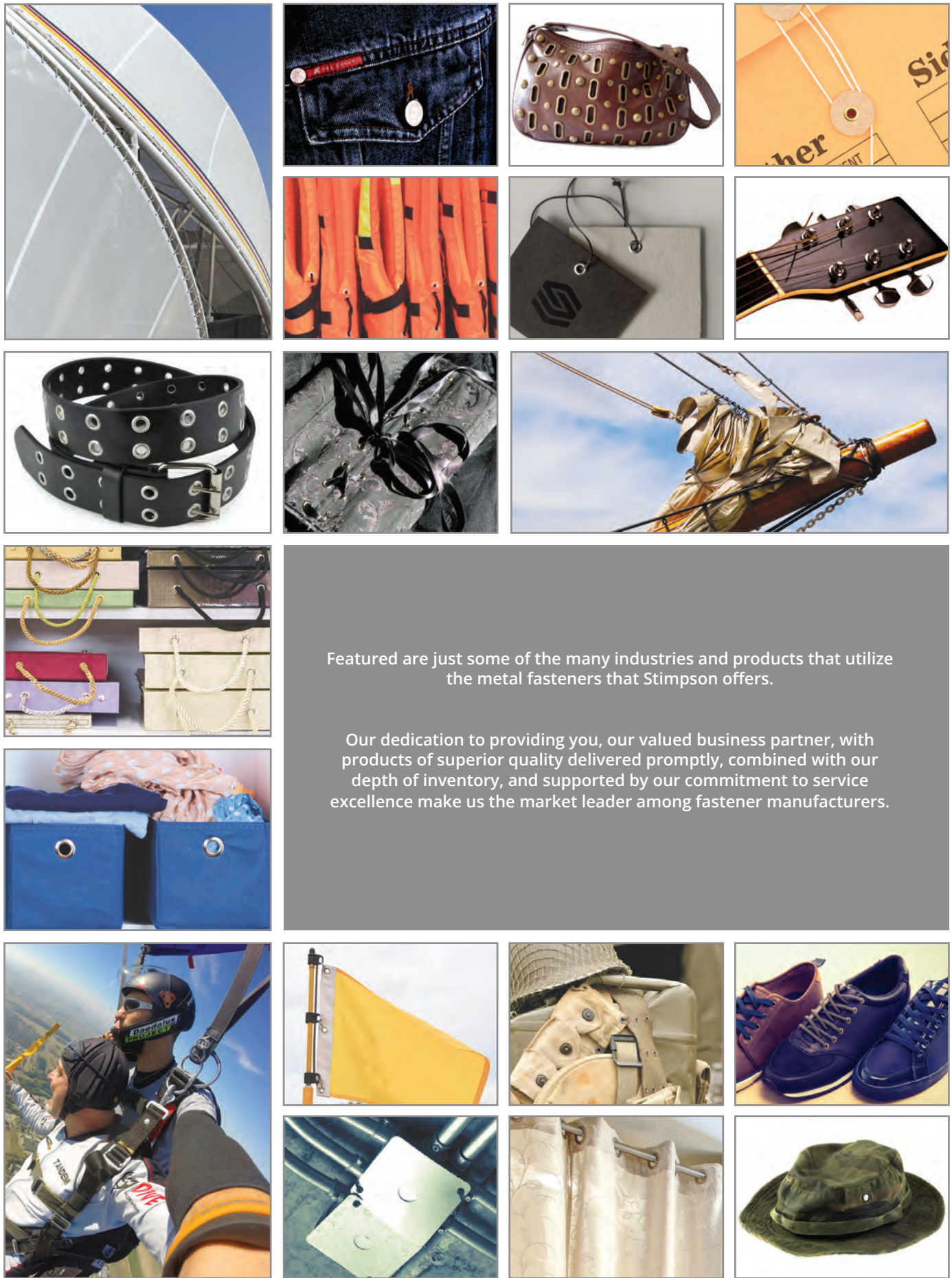




PRODUCT GUIDE

www.stimpson.com

Eyelets | Grommets | Washers
Hole Plugs | Snap Fasteners
Clamps | Ferrules | Arrows
Vents | Tooling | Machinery



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

Our dedication to providing you, our valued business partner, with products of superior quality delivered promptly, combined with our depth of inventory, and supported by our commitment to service excellence make us the market leader among fastener manufacturers.

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1515 S.W. 13th Court Pompano Beach, FL 33069
Toll Free (877) 765-0748 | Phone (954) 946-3500
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STIMPSON® | Sheet Metal Grommets

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

	#00G Hole Size 3/16"	#0G Hole Size 1/4"	#1G Hole Size 9/32"	#1JG Hole Size 9/32"	#2G Hole Size 3/8"
	FLG LUF MT .425 .135 .009	FLG LUF MT .545 .175 .012	FLG LUF MT .687 .185 .012	FLG LUF MT .680 .263 .0126	FLG LUF MT .815 .215 .013

Plain Washers basic reinforcement, providing support for the grommet setting.

	#00W	#0W	#1W	#1W	#2W
	ID OD MT .218 .460 .009	ID OD MT .289 .546 .010	ID OD MT .359 .700 .012	ID OD MT .359 .700 .012	ID OD MT .453 .835 .012

Teeth Washers a firmer, tighter grasp, particularly in woven materials.

	#0TW	#1TW	#1TW	#2TW
	ID OD MT .290 .570 .0115	ID OD MT .350 .680 .014	ID OD MT .350 .680 .014	ID OD MT .468 .840 .012

Neck Washers telescoping, barrel to barrel setting, reinforces the hole with two entire parts.

	#00NW*	#0NW*	#1NW*	#1NW*	#2NW*
	FLG LUF MT .425 .125 .010	FLG LUF MT .531 .100 .010	FLG LUF MT .705 .105 .010	FLG LUF MT .705 .105 .010	FLG LUF MT .840 .095 .013

* Indicates Scored Washers

Telescoping Eyelets with Neck Washers

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

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

* Indicates Scored Washers

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.

#2JG Hole Size 3/8"	#3G Hole Size 7/16"	#4G Hole Size 1/2"	#5G Hole Size 5/8"	#6G Hole Size 13/16"
FLG LUF MT .840 .260 .016	FLG LUF MT .970 .295 .014	FLG LUF MT 1.050 .374 .016	FLG LUF MT 1.220 .330 .016	FLG LUF MT 1.750 .232 .020

#2W	#3W	#4W	#5W	#6W
ID OD MT .453 .835 .012	ID OD MT .530 .955 .013	ID OD MT .585 1.062 .013	ID OD MT .740 1.205 .014	ID OD MT .875 1.828 .020

#2JTW	#3TW	#4TW	#5TW
ID OD MT .468 .840 .016	ID OD MT .545 .945 .013	ID OD MT .593 1.050 .016	ID OD MT .720 1.190 .017

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 brass 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

#2JNW*	#3NW*	#4NW*
FLG LUF MT .840 .095 .013	FLG LUF MT .945 .125 .014	FLG LUF MT 1.050 .125 .015

"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.

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



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Toll Free (877) 765-0748 | Phone (954) 946-3500
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.

#0RRG HOLE - 9/32"
FLG - .670 LUF - .175 MT - .016

#0SW
ID - .345 OD - .645 MT - .016

#0LRRG HOLE - 9/32"
FLG - .670 LUF - .240 MT - .016

#0SW
ID - .345 OD - .645 MT - .016

#0XLRRG HOLE - 9/32"
FLG - .670 LUF - .300 MT - .016

#0SW
ID - .345 OD - .645 MT - .016

#1RRG HOLE - 13/32"
FLG - .790 LUF - .205 MT - .016

#1SW
ID - .455 OD - .790 MT - .016

#2RRG HOLE - 7/16"
FLG - .890 LUF - .255 MT - .018

#2SW
ID - .512 OD - .890 MT - .018

#2XLRRG HOLE - 7/16"
FLG - .890 LUF - .348 MT - .018

#2SW
ID - .512 OD - .890 MT - .018

#3RRG HOLE - 15/32"
FLG - .970 LUF - .255 MT - .020

#3SW
ID - .537 OD - .970 MT - .020

#4RRG HOLE - 9/16"
FLG - 1.120 LUF - .320 MT - .020

#4SW
ID - .645 OD - 1.120 MT - .020

#5RRG HOLE - 5/8"
FLG - 1.285 LUF - .380 MT - .021

#5SW
ID - .777 OD - 1.270 MT - .021

#6RRG HOLE - 3/4"
FLG - 1.535 LUF - .420 MT - .025

#6SW
ID - .875 OD - 1.505 MT - .025

#7RRG HOLE - 29/32"
FLG - 1.725 LUF - .446 MT - .020

#7SW
ID - 1.062 OD - 1.725 MT - .020

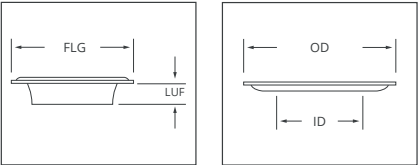
#8RRG HOLE - 1-3/32"
FLG - 1.865 LUF - .465 MT - .025

#8SW
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

Stainless Steel Sheet Metal Grommets and Plain Washers



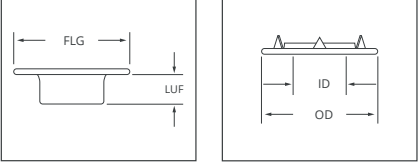
Option 1: Marine Grade 304 Stainless Steel - Standard Gauge - Imported
Option 2: *Special Order 305/302 Stainless Steel - Standard Gauge - Made in USA

*Minimum order quantities apply

Option 1 and Option 2

#00G - Hole Size 3/16"	#0G - Hole Size 1/4"	#1G - Hole Size 9/32"	#2G - Hole Size 3/8"	#3G - Hole Size 7/16"	#4G - Hole Size 1/2"
FLG .425 LUF .135 MT .009 #00W ID .218 OD .460 MT .009	FLG .545 LUF .175 MT .012 #0W ID .289 OD .546 MT .010	FLG .687 LUF .185 MT .012 #1W ID .359 OD .700 MT .012	FLG .815 LUF .215 MT .013 #2W ID .453 OD .835 MT .012	FLG .970 LUF .295 MT .014 #3W ID .530 OD .955 MT .013	FLG 1.050 LUF .374 MT .016 #4W ID .585 OD 1.062 MT .013

Stainless Steel Rolled Rim Grommets and Spur Washers



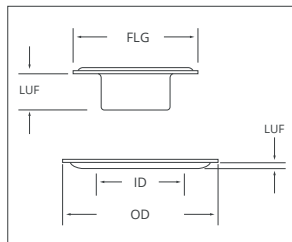
Option 1: Marine Grade 304 Stainless Steel - Standard Gauge - Imported
Option 2: EasySet 304 Stainless Steel - Economy - Lighter Gauge - Imported
Option 3: *Special Order 305/302 Stainless Steel - Standard Gauge - Made in USA

*Minimum order quantities apply

Option 1 - Option 3

#0RRG - Hole Size 9/32"	#0LRRG - Hole Size 9/32"	#1RRG - Hole Size 13/32"	#2RRG - Hole Size 7/16"	#3RRG - Hole Size 15/32"	#4RRG - Hole Size 9/16"
Option 1 & 3 Option 2 FLG .670 LUF .175 MT .016 MT .010 #0SW Option 1 & 3 Option 2 ID .345 OD .645 MT .016 MT .010	Option 1 & 3 Option 2 FLG .670 LUF .240 MT .016 N/A #0SW Option 1 & 3 Option 2 ID .345 OD .645 MT .016 N/A	Option 1 & 3 Option 2 FLG .790 LUF .205 MT .016 MT .010 #1SW Option 1 & 3 Option 2 ID .455 OD .790 MT .016 MT .010	Option 1 & 3 Option 2 FLG .890 LUF .255 MT .018 MT .010 #2SW Option 1 & 3 Option 2 ID .512 OD .890 MT .018 MT .010	Option 1 & 3 Option 2 FLG .970 LUF .255 MT .020 MT .011 #3SW Option 1 & 3 Option 2 ID .537 OD .970 MT .020 MT .011	Option 1 & 3 Option 2 FLG 1.120 LUF .320 MT .020 MT .011 #4SW Option 1 & 3 Option 2 ID .645 OD 1.120 MT .020 MT .011

Self-Piercing Grommets & Washers



Stimpson Self-Piercing Grommets are made from heavier gauge brass than traditional sheet metal grommets and, when set with their matching washers, pierce and set in a single action without the need for a pre-punched hole.

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

#0SPG HOLE - 1/4" FLG - .550 LUF - .165 MT - .015	#1SPG HOLE - 5/16" FLG - .630 LUF - .200 MT - .015	#1XLSPG HOLE - 5/16" FLG - .630 LUF - .320 MT - .015
#0SPW ID - .337 OD - .575 MT - .011	#1SPW ID - .400 OD - .655 MT - .011	#1SPW ID - .400 OD - .655 MT - .011
#2SPG HOLE - 3/8" FLG - .750 LUF - .200 MT - .015	#E2XLSPG HOLE - 3/8" FLG - .750 LUF - .500 MT - .012	#3SPG HOLE - 7/16" FLG - .970 LUF - .185 MT - .015
#2SPW ID - .437 OD - .770 MT - .011	#E2SPW ID - .437 OD - .770 MT - .010	#3SPW ID - .546 OD - .970 MT - .011

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

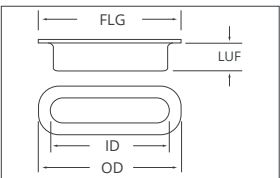
304 Stainless Steel Self-Piercing Grommets & Washers



#E2SPG HOLE - 3/8" FLG - .750 LUF - .200 MT - .010	#E2XLSPG HOLE - 3/8" FLG - .750 LUF - .500 MT - .012
#E2SPW ID - .437 OD - .770 MT - .010	#E2SPW ID - .437 OD - .770 MT - .010

The Stimpson hand-operated 405 grommet setting machine is ideal for setting Stimpson Self-Piercing Grommets and Washers. See page 19 for further details.

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.

 		 		 	
A670/C501		A671/C264		A1496/C714	
Grommet Dimensions		Washer Dimensions		Grommet Dimensions	
FLG	LUF	ID	OD	FLG	LUF
1.315 X .665	.225	.268 X .923	.625 X 1.286	2.015 X .915	.332
Grommet Dimensions		Washer Dimensions		Grommet Dimensions	
FLG	LUF	ID	OD	FLG	LUF
2.015 X .915	.332	.420 X 1.532	.915 X 2.010	2.375 X .965	.308
Grommet Dimensions		Washer Dimensions		Grommet Dimensions	
FLG	LUF	ID	OD	FLG	LUF
2.375 X .965	.308	.468 X 1.812	.968 X 2.375		

 		 		 		
A591/C189		A113/C118		A3537*/C829*		
Grommet Dimensions		Washer Dimensions		Grommet Dimensions		Washer Dimensions
FLG	LUF	ID	OD	FLG	LUF	MT
1.125 X .690	.222	.400 X .800	.685 X 1.125	1.406 X .565	.269	.312 X 1.187
						.562 X 1.437
Grommet Dimensions		Washer Dimensions		Grommet Dimensions		Washer Dimensions
FLG	LUF	ID	OD	FLG	LUF	MT
1.405 X 1.035	.285	.014	.925 X .575	1.405 X 1.035	.014	

* Indicates embossed oblong grommet & washer.

Snap Fasteners

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

Stimpson snap sets are made from brass, brass nickel, dull black chemical and conform to Government Specifications MIL-F-10884, MS 27890 and MS 27981.

Stimpson large snap sets (24 Line) are also available in stainless steel with a plain stud, 3/8" screw stud or 5/8" screw stud.



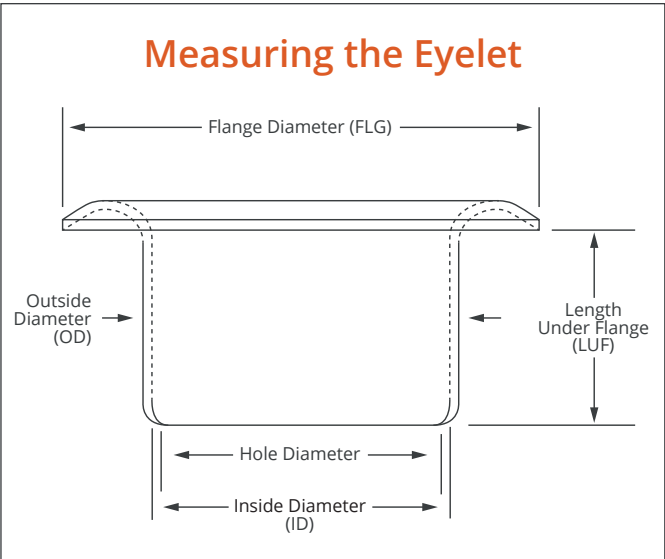
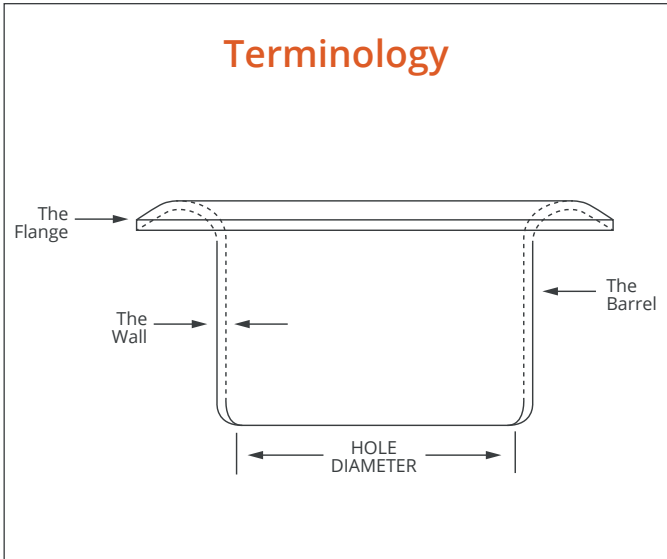
1515 S.W. 13th Court Pompano Beach, FL 33069
Toll Free (877) 765-0748 | Phone (954) 946-3500
customer_service@stimpson.com

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; 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 sizes and styles we ship worldwide.

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 eyeleting 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

Settings


ROLL


SCORED


FLARED

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.

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

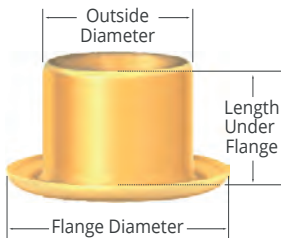
No two applications being alike, it's impossible to offer specific standards as to how much barrel length there should be to obtain proper coil/grip. Too much length can result in barrel buckling (collapsing). Too little may mean loss of grip strength. Rigid materials usually need less; soft flexible 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"	5/32" to 3/16"	1/4" or more
Additional Length:	1/32"	1/16"	3/32"	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



Stimpson “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. In many cases, GS® Eyelets can also be made from steel, stainless steel, aluminum and copper.



72 GS® Eyelets, teamed with Stimpson’s economical eyeleting machines, offer the highest quality system in the industry, at the lowest cost.

INCHES	LENGTH UNDER FLANGE													
	2/32 .062	3/32 .093	4/32 .125	5/32 .156	6/32 .187	7/32 .219	8/32 .250	9/32 .281	10/32 .312	11/32 .344	12/32 .375	13/32 .406	14/32 .437	
OUTSIDE .059 DIAMETER														
FLANGE .105 DIAMETER														
METAL .007 THICKNESS														
GS 2-2														
OUTSIDE .089 DIAMETER														
FLANGE .150 DIAMETER														
METAL .009 THICKNESS														
GS 3-3														
OUTSIDE .121 DIAMETER														
FLANGE .200 DIAMETER														
METAL .0095 THICKNESS														
GS 4-3														
OUTSIDE .152 DIAMETER														
FLANGE .245 DIAMETER														
METAL .010 THICKNESS														
GS 5-3														
OUTSIDE .183 DIAMETER														
FLANGE .290 DIAMETER														
METAL .0105 THICKNESS														
GS 6-3														
OUTSIDE .215 DIAMETER														
FLANGE .340 DIAMETER														
METAL .011 THICKNESS														
GS 7-3														
OUTSIDE .246 DIAMETER														
FLANGE .385 DIAMETER														
METAL .011 THICKNESS														
GS 8-3														

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

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

“Button & String Envelope” Eyelets

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

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

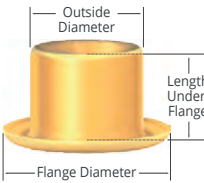


Stimpson Apparel Eyelets are made to industry and military standards with decorative flanges as well as popular finishes such as nickel, brass, various shades of antique bronze and military specified colors.

Industry Standards Eyelets with Matching Washers

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

Shoe Eyelets

Examples of Stimpson Shoe Eyelets					
					
#00 ROLL A1967 Aluminum	#00 ROLL A2400 Brass	#1 ROLL A1928 Aluminum	#1 SCORED A2000* Aluminum	#1 EX. LONG ROLL A1685 Aluminum	
OD .277 LUF .157 FLG .490 MT .016	OD .275 LUF .150 FLG .495 MT .011	OD .208/.192 LUF .142 FLG .345 MT .016	OD .201 LUF .155 FLG .345 MT .016	OD .200 LUF .212 FLG .343 MT .016	
#2 ROLL A2187 Aluminum	#2 ROLL A1387 Brass	#4 ROLL A2013 Brass	J.L. ROLL A3165 Brass & Steel	AA ROLL A2269 Aluminum	AA ROLL A2605 Brass & Steel
OD .177 LUF .138 FLG .300 MT .016	OD .173 LUF .142 FLG .300 MT .012	OD .157 LUF .102 FLG .235 MT .010	OD .290/.270 LUF .225 FLG .510 MT .013	OD .220 LUF .168 FLG .390 MT .015	OD .215 LUF .150 FLG .390 MT .008
AA LONG ROLL A2617 Brass & Steel	AA EX. LONG ROLL A3138 Aluminum & Brass	AA EX. LONG ROLL A3433 Brass	AA EX. LONG SCORED A3592* Brass	LARGE HEXAGON LONG A3467 Brass	MILITARY BOOT A2639 Aluminum
OD .215 LUF .188 FLG .388 MT .010	OD .227/.220 LUF .220 FLG .385 MT .018	OD .228 LUF .217 FLG .390 MT .012	OD .215 LUF .215 FLG .388 MT .010	OD .224 LUF .212 FLG .463 MT .012	OD .297/.285 LUF .198 FLG .490 MT .016

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.

Stimpson Candle Eyelets

Stimpson offers the complete line of Candle Eyelets, made from .010" tin coated steel, 25% heavier than many of the clips currently being offered. This ensures the strength of the clip as it accepts the crimp and stabilizes the wick-clip assembly.

We choose to use tin coated steel as it helps to inhibit, though not totally prevent, corrosion and, thereby, is preferable to plain steel. This provides our Customers with that added measure of quality.

Stimpson Candle Eyelet Dimensions

Disc Diameter - 15.0 mm (.590")			Disc Diameter - 20.0 mm (.788")		
Hole Size			Hole Size		
Overall Length			Overall Length		
2.4 mm (.094") 3.0 mm (.118")			2.1 mm (.083") 2.4 mm (.094") 3.0 mm (.118")		
 Industry Standards	3.8 mm (.150")	A3789STC A3015STC	-	A3786STC A3793STC	
 Medium Lengths	6.0 mm (.236")	A3792STC A3779STC	A3957STC	A3797STC A3796STC	
 Safety Lengths	10.0 mm (.394")	A3798STC A3777STC	A3961STC	A3800STC A3799STC	
 Extra Safety Lengths	13.0 mm (.510")	A3851STC A3850STC	-	-	-

WICKS UNLIMITED

- Wick-Clip Assemblies
- Waxed Wick on Reels
- Raw Wick on Spools

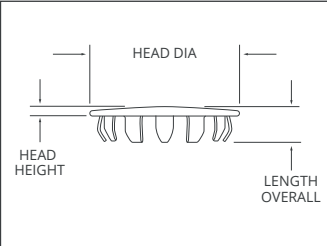
Visit: www.wicksunlimited.com for all your candle wicking needs.



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

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



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customer_service@stimpson.com

Tubing Hole Plugs

	D4167 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	D4149 Tube Ins Dia 3/8 Tube Out Dia 17/32 Head Dia 17/32 Head Ht 1/16 L Overall 25/64	D4410 Tube Ins Dia 29/64 Tube Out Dia 17/32 Head Dia 17/32 Head Ht 5/64 L Overall 25/64
	D3031 Tube Ins Dia 7/8 Tube Out Dia 1 Head Dia 63/64 Head Ht 7/32 L Overall 3/4	D5608 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	

Shop Online at:
webstore.stimpson.com
 See page 18

Electrical Knockout Plugs

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

Stimpson Special Hole Plugs

D4110 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	D4603 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	D4298 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	D5590 Special Character Extruded Head Hole Dia 5/8 Thk of Wk 1/32 Head Dia & Ht 13/16 - 7/64 L Overall 11/32	D5617 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
D5655 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		D5660 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		

Additional Products

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

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 lancements 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.

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



See page 22 for
 common Military Specifications
 for Grommets & Washers

ISO 9001:2015 Certified QMS • RoHs • REACH • DFARS • Berry Amendment Compliant

webstore.stimpson.com

Featured below is a small sample of the items you will see at the Stimpson webstore. We are constantly working to add the most popular Stimpson products to our webstore offerings. If you don't see what you need, please feel free to contact our customer service department at 954-946-3500 or customer_service@stimpson.com. We will be happy to assist you.

Grommets and Washers



GS® Eyelets



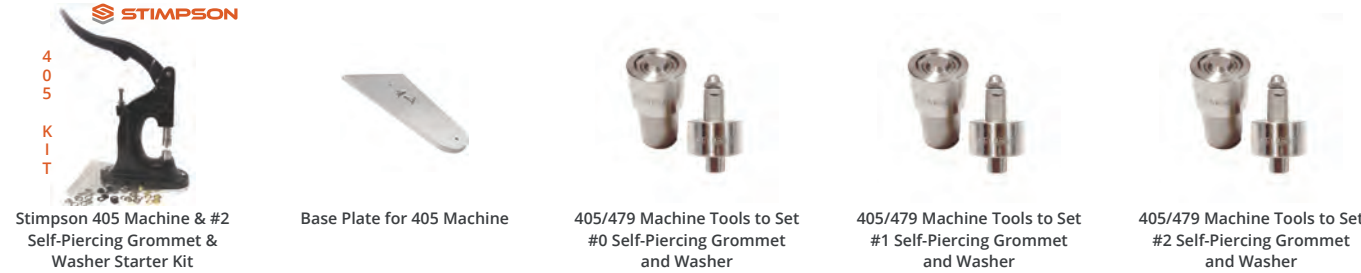
Hole Plugs



Snap Sets



Machinery and Tooling



Stimpson Attaching Machines

Quality fasteners need to be supported by quality tooling and attaching machines. 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.

Pages 19 through 21 display the options available to meet your machinery requirements, from a hand operated bench machine to fully automatic dual feed grommeting machine.

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.

*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.



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"



Modular Hand Drive

For Grommets with Plain or Teeth Washers and Rolled Rim Grommets with Spur Washers and Snap Sets. Features interchangeable tool sizes.



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Hand-Feed Machinery

EP-900 Hand Feed Grommet Machine

The EP-900 sets Stimpson grommets and washers with a hands-free foot pedal, so the operator grips the material with both hands and places every setting exactly where it belongs. It runs brass sheet metal grommets and rolled rim, spur, or self-piercing grommets and washers through size #4, and with the right tooling, it sets Stimpson eyelets and snaps as well. A laser light targets the center of the material for a precise setting location, and a built-in guard sensor keeps the machine from cycling if there is anything in the die area. The included adjustable table stand lets operators work sitting or standing through a long run.

Specs: Sets through #4 | 25" H (without table), 4" D | 105 lbs | Electric 110V, or pneumatic 75-145 psi



Jopeci J-21 Pneumatic Grommet Machine

The J-21 is a portable, hand feed pneumatic press that punches the hole and sets the grommet and washer in a single action, in under a second. It sets Stimpson plain sheet metal grommets and washers from #00 (3/16" hole) through #4 (1/2" hole), plus rolled rim grommets and spur washers through the same size, at up to 900 settings per hour, which is a real jump over hand punching and hand setting. It runs on standard shop air with no electrical connection, so it goes anywhere you have a compressor. Foot pedal actuation comes standard on the J-21, where a lot of machines in this class treat it as an add-on, and it frees both hands so your operator can position material with two-handed precision. The stainless steel work plate keeps your back space and spacing consistent, and a finger guard prevents the machine from cycling when the dies are obstructed. At 31 lbs, it moves between stations easily, and it is still strong enough to set through multiple layers of nylon webbing and seatbelt material.

Specs: Sets #00 through #4, plain sheet metal or rolled rim with spur washers | 900 settings/hour | 15" H, 12" D, 5.5" W | 31 lbs | 120 psi shop air, no electricity



Jopeci J-25 Heavy-Duty Pneumatic Grommet Machine

The J-25 is the heavy-duty version of the J-21, built for bigger grommets and heavier material. It cuts and sets from #00 plain sheet metal through #6 rolled rim grommets and spur washers (3/4" hole) in a single stroke, and in prepunched material it sets #7, #8, and #10 rolled rim grommets or curtain grommets. Speed stays at 900 settings per hour on standard shop air, with no electrical connection. The foot pedal, the stainless steel work plate, and the finger guard are all standard equipment, same as on the J-21. Commercial flags, awnings, marine canvas, banners, industrial tarps, and heavy webbing are all in range.

Specs: Cut and set #00 through #6; set-only #7, #8, #10 in prepunched material | 900 settings/hour | 19" H, 17" D, 6" W | 55 lbs | 120 psi shop air, no electricity



Auto Feed Machinery

Jopeci J-239 Dual Feed Automatic Grommet Machine

The J-239 is a dual feed automatic machine that punches the hole and sets the grommet and washer in a single action, in under a second. It sets Stimpson brass sheet metal grommets with neck or teeth washers in sizes #00 through #5, and rolled rim grommets with spur washers in sizes #0 through #5. It runs on electricity alone, with no compressed air required, and the setting force comes from a flywheel rather than an air piston, which is what lets it outrun the pneumatic machines in its class. A laser pointer and an integrated stainless steel worktable with spacing gauges keep placement repeatable through a long run, and an automatic washer detector stops the machine from setting a grommet without its washer. An acrylic shield and ring guard protect the operator. It adjusts easily across vinyl, PVC, canvas, leather, sailcloth and marine fabrics, and webbing.

Specs: Sheet metal #00 through #5; rolled rim #0 through #5 | 3,600 settings/hour | 59" H, 35" W, 27.5" D | 304 lbs | Electric, 110V



Jopeci J-596A Automatic Snap Fastener Machine

A finished snap has four parts, and the J-596 A builds one half of it. This automatic, electric, flywheel-powered machine assembles the cap and socket at up to 3,600 settings per hour. Two independent feeding systems supply both components, and a two-movement action approaches the material first and attaches second, so placement stays precise piece after piece. A built-in laser pointer marks each location, and a component-sensing selector confirms the right components are present before the machine cycles, which keeps incomplete sets off your line. It sets snaps in footwear, textiles, canvas, PVC, plastic, and cardboard.

Specs: Cap and Socket | Up to 3,600 settings/hour | 55.5" H, 35.4" W, 27.6" D | 300 lbs | 1 HP, 220-380V



Jopeci J-596B Automatic Snap Fastener Machine

The J-596 B is the mating half of the pair. It assembles the stud and post, again at up to 3,600 settings per hour, and it shares the J-596 A's electric, flywheel-powered frame, controls, and two-movement action, so operators move between the two machines with no relearning. Run the version that matches the half you set, or run both and produce complete snaps in-house. The same laser pointer and component sensor keep placement accurate and prevent incomplete sets. Materials include footwear, textiles, canvas, PVC, plastic, and cardboard.

Specs: Stud and post | Up to 3,600 settings/hour | 55.5" H, 35.4" W, 27.6" D | 300 lbs | 1 HP, 220-380V



Common Military Specifications for Grommets & Washers

Notes

NASM16491 (supersedes MIL-G-16491)

Type	Class	Trade Size / Stimpson Part Number						
		00	0	1	2	3	4	5
Type I	Class 1	00GWB	0GWB	1GWB	2GWB	3GWB	4GWB	5GWB
	Class 2	00GWBNI	0GWBNI	1GWBNI	2GWBNI	3GWBNI	4GWBNI	5GWBNI
	Class 3	00GWBDBCI	0GWBDBCI	1GWBDBCI	2GWBDBCI	3GWBDBCI	4GWBDBCI	5GWBDBCI
Type II	Class 1		0GTWB	1GTWB	2GTWB	3GTWB	4GTWB	5GTWB
	Class 2		0GTWBNI	1GTWBNI	2GTWBNI	3GTWBNI	4GTWBNI	5GTWBNI
	Class 3		0GTWBDBCI	1GTWBDBCI	2GTWBDBCI	3GTWBDBCI	4GTWBDBCI	5GTWBDBCI
Type III	Class 1		0RRGSWB	1RRGSWB	2RRGSWB	3RRGSWB	4RRGSWB	5RRGSWB
	Class 2		0RRGSWBNI	1RRGSWBNI	2RRGSWBNI	3RRGSWBNI	4RRGSWBNI	5RRGSWBNI
	Class 3		0RRGSWBDBCI	1RRGSWBDBCI	2RRGSWBDBCI	3RRGSWBDBCI	4RRGSWBDBCI	5RRGSWBDBCI

Type and Class Definitions for NASM16491:

Type I: Sheet Metal Grommet with Plain Washer

Class 1: Plain Brass

Type II: Sheet Metal Grommet with Teeth Washer

Class 2: Brass with Nickel plating

Type III: Rolled Rim Grommet with Spur Washer

Class 3: Brass with Dull Black Chemical (oxide) finish

*NASM20230 (supersedes MS20230)

Sheet Metal Grommets & Washers

Grommet & Washer			Grommet Only			Washer Only		
Spec	Stimpson Part		Spec	Stimpson Part		Spec	Stimpson Part	
NASM20230B20	00GWB					NASM20230BS10	0RRGSWB	
NASM20230B10	0GWB					NASM20230BS1	1RRGSWB	
NASM20230B1	1GWB					NASM20230BS2	2RRGSWB	
NASM20230B2	2GWB					NASM20230BS3	3RRGSWB	
NASM20230B3	3GWB					NASM20230BS4	4RRGSWB	
NASM20230B4	4GWB					NASM20230BS5	5RRGSWB	
NASM20230B5	5GWB							
NASM20230GB20	00GB					NASM20230GBS10	0RRGB	
NASM20230GB10	0GB					NASM20230GBS1	1RRGB	
NASM20230GB1	1GB					NASM20230GBS2	2RRGB	
NASM20230GB2	2GB					NASM20230GBS3	3RRGB	
NASM20230GB3	3GB					NASM20230GBS4	4RRGB	
NASM20230GB4	4GB					NASM20230GBS5	5RRGB	
NASM20230GB5	5GB							
NASM20230WB20	00WB					NASM20230WBS10	0SWB	
NASM20230WB10	0WB					NASM20230WBS1	1SWB	
NASM20230WB1	1WB					NASM20230WBS2	2SWB	
NASM20230WB2	2WB					NASM20230WBS3	3SWB	
NASM20230WB3	3WB					NASM20230WBS4	4SWB	
NASM20230WB4	4WB					NASM20230WBS5	5SWB	
NASM20230WB5	5WB							

*NASM20230 Specifies Plain Brass Only



STIMPSON QUALITY STATEMENT

The policy of Stimpson is to produce quality products that satisfy requirements. Management is committed to work with and provide each employee with the resources and training necessary to continually improve the effectiveness of the Quality System.

ISO 9001:2015 Certified QMS



 Pompano Beach, FL 33069

 www.stimpson.com