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# Prints Catalog



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01

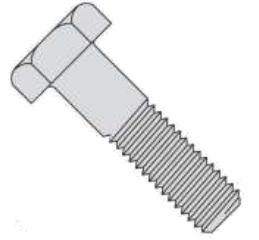
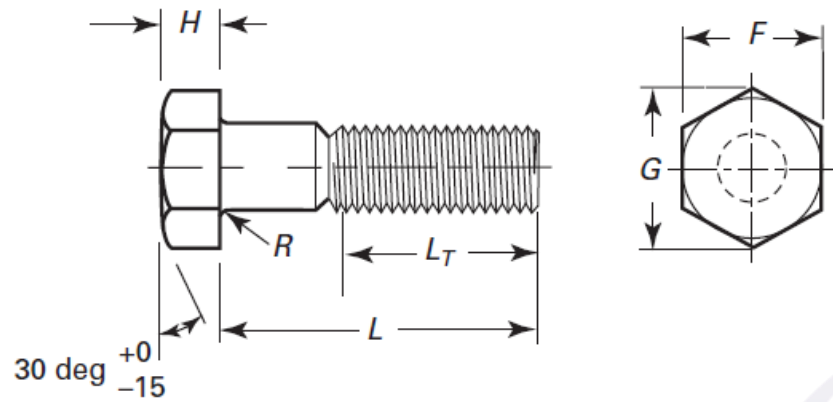
# BOLTS



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Basic Bolt Dia.	F			G		H			R		Tensile Strength (psi)
	Width Across Flats			Width Across Corners		Head Height			Radius of Fillet		
	Basic	Max	Min	Max	Min	Basic	Max	Min	Max	Min	Min
1	1-5/8	1.625	1.575	1.876	1.796	43/64	0.700	0.591	0.09	0.03	120,000

### NOTES

1. Heavy Hex Head Bolt Dimensions per ASME B18.2.1
2. Material: Medium Carbon Steel per ASTM A449 Type 1
3. Finish: Hot Dip Galvanized to ASTM F2329
4. Heads marked "A449" and with manufacturer's symbol or identification mark

1" Diameter (1-8UNC)		
L	T	SPS Part Number (Bolt Only)
Length	Minimum Thread Length	
12	4	100192BA44903
14	6	100224BA44903

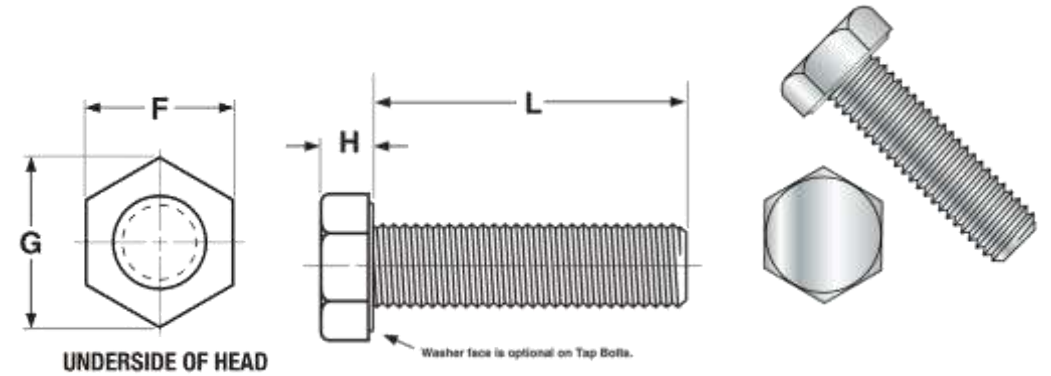
Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: 1" HEAVY HEX BOLT A449 HDG						
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com	<table border="1"> <tr> <th>REV</th> <th>DATE</th> </tr> <tr> <td>C</td> <td>07/20/2022</td> </tr> </table>	REV	DATE	C	07/20/2022
	REV	DATE				
C	07/20/2022					

For sizes not shown, please contact SPS Sales



Nominal Diameter	Threads Per Inch	L Length	SPS Part Number			
			18-8 Stainless Head Stamped 304		ASTM F593 304 Stainless Head Stamped F593C	
			Ref	Import	Domestic	Import
1/2	13	3/4	5012CH188	5012CH188D	5012CHF593C	5012CHF593CD
1/2	13	7/8	5014CH188	5014CH188D	5014CHF593C	5014CHF593CD
1/2	13	1	5016CH188	5016CH188D	5016CHF593C	5016CHF593CD
1/2	13	1-1/8	5018CH188	5018CH188D	5018CHF593C	5018CHF593CD
1/2	13	1-1/4	5020CH188	5020CH188D	5020CHF593C	5020CHF593CD
1/2	13	1-3/8	5022CH188	5022CH188D	5022CHF593C	5022CHF593CD
1/2	13	1-1/2	5024CH188	5024CH188D	5024CHF593C	5024CHF593CD
1/2	13	1-5/8	5026CH188	5026CH188D	5026CHF593C	5026CHF593CD
1/2	13	1-3/4	5028CH188	5028CH188D	5028CHF593C	5028CHF593CD
1/2	13	2	5032BHT188	5032BHT188D	5032BHTF593C	5032BHTF593CD
1/2	13	2-1/4	5036BHT188	5036BHT188D	5036BHTF593C	5036BHTF593CD
1/2	13	2-1/2	5040BHT188	5040BHT188D	5040BHTF593C	5040BHTF593CD
1/2	13	2-3/4	5044BHT188	5044BHT188D	5044BHTF593C	5044BHTF593CD
1/2	13	3	5048BHT188	5048BHT188D	5048BHTF593C	5048BHTF593CD
1/2	13	3-1/2	5056BHT188	5056BHT188D	5056BHTF593C	5056BHTF593CD
1/2	13	4	5064BHT188	5064BHT188D	5064BHTF593C	5064BHTF593CD
1/2	13	4-1/2	5072BHT188	5072BHT188D	5072BHTF593C	5072BHTF593CD
1/2	13	5	5080BHT188	5080BHT188D	5080BHTF593C	5080BHTF593CD
1/2	13	6	5096BHT188	5096BHT188D	5096BHTF593C	5096BHTF593CD
1/2	13	7	50112BHT188	50112BHT188D	50112BHTF593C	50112BHTF593CD
1/2	13	8	50128BHT188	50128BHT188D	50128BHTF593C	50128BHTF593CD



Basic Product Dia.	F			G		H		
	Width Across Flats			Width Across Corners		Head Height		
	Basic	Max	Min	Max	Min	Basic	Max	Min
1/2	3/4	0.750	0.725	0.866	0.826	11/32	0.364	0.302

**NOTES**

- Hex tap bolts are fully threaded
- Fully threaded hex cap screws are supplied in place of tap bolts when more readily available unless explicitly excluded when quoting or ordering
- Dimensions to ASME B18.2.1
- Materials available:
  - 18-8 Stainless Steel
  - ASTM F593 304 Stainless Steel

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

<b>TITLE: 1/2" HEX TAP BOLTS 18-8 STAINLESS STEEL</b>			
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com	<b>REV</b>	<b>DATE</b>
		B	08/02/2022

For sizes not shown, please contact SPS Sales

Nominal or Basic Product Diameter	E		F			G		H			J	L <sub>T</sub>		Y
	Body Diameter		Width Across Flats			Width Across Corners		Head Height			Wrenching Height	Thread Length		Transition Thread Length
	Max	Min	Basic	Max	Min	Max	Min	Basic	Max	Min	Min	6 in and Shorter	Over 6 in	Ref
1/4	0.2500	0.2450	7/16	0.438	0.428	0.505	0.488	5/32	0.163	0.150	0.106	0.750	1.000	0.250
5/16	0.3125	0.3065	1/2	0.500	0.489	0.577	0.557	13/64	0.211	0.195	0.140	0.875	1.125	0.278
3/8	0.3750	0.3690	9/16	0.562	0.551	0.650	0.628	15/64	0.243	0.226	0.160	1.000	1.250	0.312
1/2	0.5000	0.4930	3/4	0.750	0.736	0.866	0.840	5/16	0.323	0.302	0.215	1.250	1.500	0.385
5/8	0.6250	0.6170	15/16	0.938	0.922	1.083	1.051	25/64	0.403	0.378	0.269	1.500	1.750	0.455
3/4	0.7500	0.7410	1-1/8	1.125	1.100	1.299	1.254	15/32	0.483	0.455	0.324	1.750	2.000	0.500
7/8	0.8750	0.8660	1-5/16	1.312	1.285	1.516	1.465	35/64	0.563	0.531	0.378	2.000	2.250	0.556
1	1.0000	0.9900	1-1/2	1.500	1.469	1.732	1.675	39/64	0.627	0.591	0.419	2.250	2.500	0.625

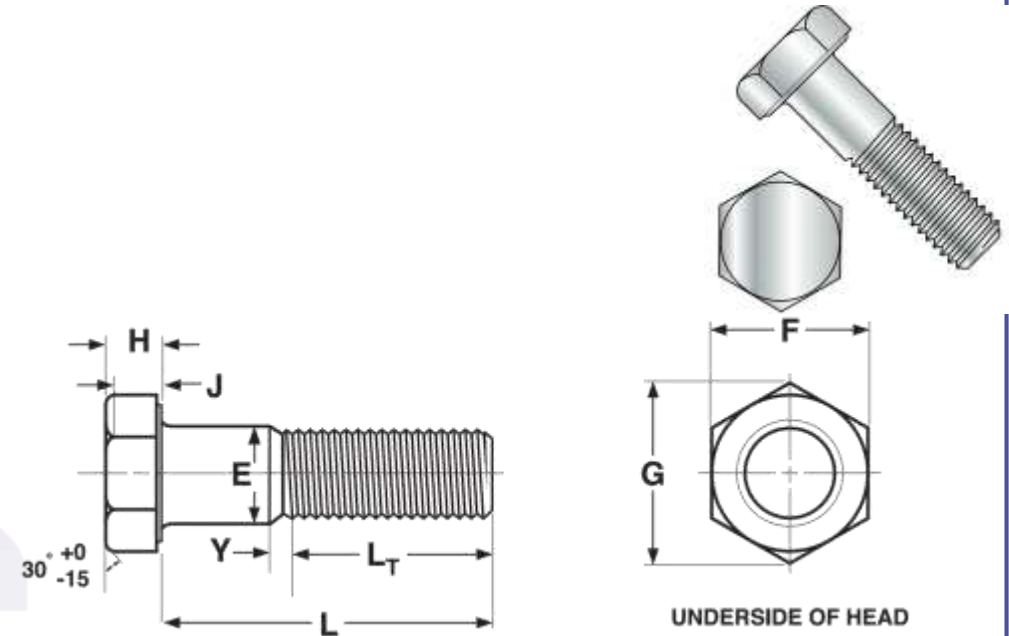
3/8" Diameter (3/8-16UNC)

L	L <sub>T</sub>	SPS Part Number
Length	Thread Length	
1/2	FT	3708CH188
5/8	FT	3710CH188
3/4	FT	3712CH188
7/8	FT	3714CH188
1	FT	3716CH188
1-1/8	FT	3718CH188
1-1/4	FT	3720CH188
1-3/8	1	3722CH188
1-1/2	1	3724CH188
1-5/8	1	3726CH188
1-3/4	1	3728CH188
2	1	3732CH188
2-1/8	1	3734CH188
2-1/4	1	3736CH188
2-1/2	1	3740CH188
2-3/4	1	3744CH188
3	1	3748CH188
3-1/4	1	3752CH188
3-1/2	1	3756CH188
3-3/4	1	3760CH188
4	1	3764CH188

3/8" Diameter (3/8-16UNC)  
Full Thread up to 1-1/4" Length

L	L <sub>T</sub>	SPS Part Number
Length	Thread Length	
4-1/4	1	3768CH188
4-1/2	1	3772CH188
4-3/4	1	3776CH188
5	1	3780CH188
5-1/4	1	3784CH188
5-1/2	1	3788CH188
5-3/4	1	3792CH188
6	1	3796CH188
6-1/2	1-1/4	37104CH188
7	1-1/4	37112CH188
7-1/2	1-1/4	37120CH188
8	1-1/4	37128CH188
8-1/2	1-1/4	37136CH188
9	1-1/4	37144CH188
9-1/2	1-1/4	37152CH188
10	1-1/4	37160CH188
10-1/2	1-1/4	37168CH188
11	1-1/4	37176CH188
11-1/2	1-1/4	37184CH188
12	1-1/4	37192CH188

†Length of a cap screw is measured from the underhead bearing surface to the extreme end of the screw.  
For sizes not shown, please contact SPS Sales



NOTES

- Hex Cap Screw per ASME B18.2.1
- Materials available:
  - 18-8 Stainless Steel
  - ASTM F593 304 Stainless Steel
- Chamfered Bolt Nose
- Domestic: Add "D" to end of SPS Part Number

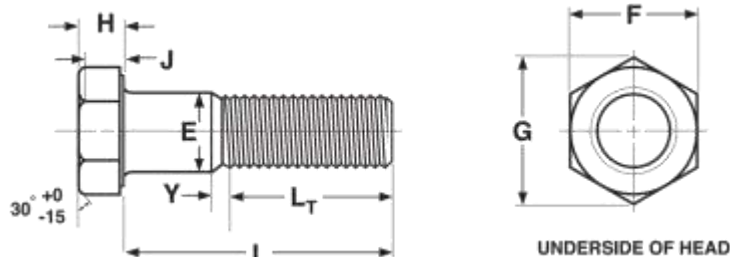
Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: 3/8"-16UNC Hex Cap Screws 18-8 Stainless Steel



10475 Crosspoint Blvd Ste 250  
Indianapolis, IN 46256  
(888) 211-7794  
Sales@spsutility.com  
www.spsutility.com

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Nominal or Basic Product Diameter	E		F			G		H			J	L <sub>T</sub>		Y
	Body Diameter		Width Across Flats			Width Across Corners		Head Height			Wrenching Height	Thread Length*		Transition Thread Length
	Max	Min	Basic	Max	Min	Max	Min	Basic	Max	Min	Min	6 in and Shorter	Over 6 in	Ref
1/2	0.5000	0.4930	3/4	0.750	0.736	0.866	0.840	5/16	0.323	0.302	0.215	1.250	1.500	0.385

1/2" Diameter (1/2-13UNC)			
L	L <sub>T</sub>	SPS Part Number	
Length	Thread Length	18-8 Stainless	ASTM F593 304 Stainless
1/2	FT	5008CH188	5008CHF593C
3/4	FT	5012CH188	5012CHF593C
7/8	FT	5014CH188	5014CHF593C
1	FT	5016CH188	5016CHF593C
1-1/8	FT	5018CH188	5018CHF593C
1-1/4	FT	5020CH188	5020CHF593C
1-3/8	FT	5022CH188	5022CHF593C
1-1/2	FT	5024CH188	5024CHF593C
1-5/8	FT	5026CH188	5026CHF593C
1-3/4	FT	5028CH188	5028CHF593C
1-7/8	1-1/4	5030CH188	5030CHF593C
2	1-1/4	5032CH188	5032CHF593C
2-1/4	1-1/4	5036CH188	5036CHF593C
2-1/2	1-1/4	5040CH188	5040CHF593C
2-3/4	1-1/4	5044CH188	5044CHF593C
3	1-1/4	5048CH188	5048CHF593C
3-1/4	1-1/4	5052CH188	5052CHF593C
3-1/2	1-1/4	5056CH188	5056CHF593C
3-3/4	1-1/4	5060CH188	5060CHF593C
4	1-1/4	5064CH188	5064CHF593C

1/2" Diameter (1/2-13UNC)			
L	L <sub>T</sub>	SPS Part Number	
Length	Thread Length	18-8 Stainless	ASTM F593 304 Stainless
4-1/4	1-1/4	5068CH188	5068CHF593C
4-1/2	1-1/4	5072CH188	5072CHF593C
4-3/4	1-1/4	5076CH188	5076CHF593C
5	1-1/4	5080CH188	5080CHF593C
5-1/4	1-1/4	5084CH188	5084CHF593C
5-1/2	1-1/4	5088CH188	5088CHF593C
5-3/4	1-1/4	5092CH188	5092CHF593C
6	1-1/4	5096CH188	5096CHF593C
6-1/2	1-1/2	50104CH188	50104CHF593C
7	1-1/2	50112CH188	50112CHF593C
7-1/2	1-1/2	50120CH188	50120CHF593C
8	1-1/2	50128CH188	50128CHF593C
8-1/2	1-1/2	50136CH188	50136CHF593C
9	1-1/2	50144CH188	50144CHF593C
9-1/2	1-1/2	50152CH188	50152CHF593C
10	1-1/2	50160CH188	50160CHF593C
10-1/2	1-1/2	50168CH188	50168CHF593C
11	1-1/2	50176CH188	50176CHF593C
11-1/2	1-1/2	50184CH188	50184CHF593C
12	1-1/2	50192CH188	50192CHF593C

1/2" Diameter (1/2-13UNC) Special: 6 Inch Thread Length This Table			
L	L <sub>T</sub>	SPS Part Number	
Length	Thread Length	18-8 Stainless	ASTM F593 304 Stainless
10	6	50160CH188-6	50160CHF593C-6
12	6	50192CH188-6	50192CHF593C-6
12-1/2	6	50200CH188-6	50200CHF593C-6
13	6	50208CH188-6	50208CHF593C-6
14	6	50224CH188-6	50224CHF593C-6
15	6	50240CH188-6	50240CHF593C-6
16	6	50256CH188-6	50256CHF593C-6
18	6	50288CH188-6	50288CHF593C-6
20	6	50320CH188-6	50320CHF593C-6

## NOTES

- Hex Cap Screw per ASME B18.2.1
- Chamfered Bolt Nose
- Materials available:
  - 18-8 Stainless Steel: Heads Stamped 304
  - ASTM F593 304 Stainless Steel: Heads Stamped F593C
- \*Lengths up to 1-3/4" are fully threaded per ASME B18.2.1

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: 1/2"-13UNC Hex Cap Screws 304 Stainless Steel



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Indianapolis, IN 46256  
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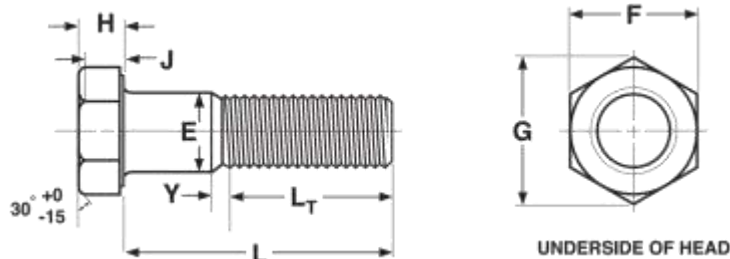
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For sizes not shown, please contact SPS Sales



Nominal or Basic Product Diameter	E		F			G		H			J	L <sub>T</sub>		Y
	Body Diameter		Width Across Flats			Width Across Corners		Head Height			Wrenching Height	Thread Length*		Transition Thread Length
	Max	Min	Basic	Max	Min	Max	Min	Basic	Max	Min	Min	6 in and Shorter	Over 6 in	Ref
1/2	0.5000	0.4930	3/4	0.750	0.736	0.866	0.840	5/16	0.323	0.302	0.215	1.250	1.500	0.385

## NOTES

- Hex Cap Screw per ASME B18.2.1
- Chamfered Bolt Nose
- Materials available:
  - 316 Stainless Steel: Heads Stamped 316
  - ASTM F593 316 Stainless Steel: Heads Stamped F593G
- \*Lengths up to 1-3/4" are fully threaded per ASME B18.2.1

1/2" Diameter (1/2-13UNC)			
L	L <sub>T</sub>	SPS Part Number	
Length	Thread Length	316 Stainless	ASTM F593 316 Stainless
3/4	FT	5012CH316	5012CHF593G
7/8	FT	5014CH316	5014CHF593G
1	FT	5016CH316	5016CHF593G
1-1/8	FT	5018CH316	5018CHF593G
1-1/4	FT	5020CH316	5020CHF593G
1-3/8	FT	5022CH316	5022CHF593G
1-1/2	FT	5024CH316	5024CHF593G
1-5/8	FT	5026CH316	5026CHF593G
1-3/4	FT	5028CH316	5028CHF593G
1-7/8	1-1/4	5030CH316	5030CHF593G
2	1-1/4	5032CH316	5032CHF593G
2-1/4	1-1/4	5036CH316	5036CHF593G
2-1/2	1-1/4	5040CH316	5040CHF593G
2-3/4	1-1/4	5044CH316	5044CHF593G
2-7/8	1-1/4	5046CH316	5046CHF593G
3	1-1/4	5048CH316	5048CHF593G
3-1/4	1-1/4	5052CH316	5052CHF593G
3-1/2	1-1/4	5056CH316	5056CHF593G
3-3/4	1-1/4	5060CH316	5060CHF593G
4	1-1/4	5064CH316	5064CHF593G

1/2" Diameter (1/2-13UNC)			
L	L <sub>T</sub>	SPS Part Number	
Length	Thread Length	316 Stainless	ASTM F593 316 Stainless
4-1/4	1-1/4	5068CH316	5068CHF593G
4-1/2	1-1/4	5072CH316	5072CHF593G
4-3/4	1-1/4	5076CH316	5076CHF593G
5	1-1/4	5080CH316	5080CHF593G
5-1/4	1-1/4	5084CH316	5084CHF593G
5-1/2	1-1/4	5088CH316	5088CHF593G
5-3/4	1-1/4	5092CH316	5092CHF593G
6	1-1/4	5096CH316	5096CHF593G
6-1/2	1-1/2	50104CH316	50104CHF593G
7	1-1/2	50112CH316	50112CHF593G
7-1/2	1-1/2	50120CH316	50120CHF593G
8	1-1/2	50128CH316	50128CHF593G
8-1/2	1-1/2	50136CH316	50136CHF593G
9	1-1/2	50144CH316	50144CHF593G
9-1/2	1-1/2	50152CH316	50152CHF593G
10	1-1/2	50160CH316	50160CHF593G
10-1/2	1-1/2	50168CH316	50168CHF593G
11	1-1/2	50176CH316	50176CHF593G
11-1/2	1-1/2	50184CH316	50184CHF593G
12	1-1/2	50192CH316	50192CHF593G

1/2" Diameter (1/2-13UNC) Special: 6 Inch Thread Length This Table			
L	L <sub>T</sub>	SPS Part Number	
Length	Thread Length	316 Stainless	ASTM F593 316 Stainless
10	6	50160CH316-6	50160CHF593G-6
12	6	50192CH316-6	50192CHF593G-6
13	6	50208CH316-6	50208CHF593G-6
14	6	50224CH316-6	50224CHF593G-6
16	6	50256CH316-6	50256CHF593G-6
18	6	50288CH316-6	50288CHF593G-6
20	6	50320CH316-6	50320CHF593G-6

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: 1/2"-13UNC Hex Cap Screws 316 Stainless Steel



10475 Crosspoint Blvd Ste 250  
Indianapolis, IN 46256  
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REV

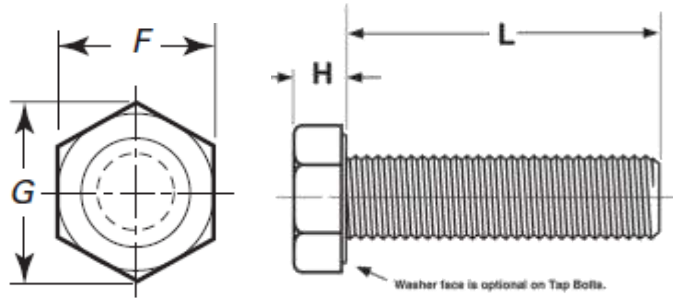
DATE

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02/22/2022

For sizes not shown, please contact SPS Sales





Basic Product Dia.	F			G		H		
	Width Across Flats			Width Across Corners		Head Height		
	Basic	Max	Min	Max	Min	Basic	Max	Min
1/2	3/4	0.750	0.725	0.866	0.840	5/16	0.323	0.302

1/2" Diameter (1/2-13UNC)		
L	SPS Part Number	
Length	18-8 Stainless	ASTM F593 304 Stainless
1/2	5008CH188	5008CHF593C
3/4	5012CH188	5012CHF593C
7/8	5014CH188	5014CHF593C
1	5016CH188	5016CHF593C
1-1/8	5018CH188	5018CHF593C
1-1/4	5020CH188	5020CHF593C
1-3/8	5022CH188	5022CHF593C
1-1/2	5024CH188	5024CHF593C
1-5/8	5026CH188	5026CHF593C
1-3/4	5028CH188	5028CHF593C
2	5032CH188FT	5032CHF593CFT
2-1/4	5036CH188FT	5036CHF593CFT
2-1/2	5040CH188FT	5040CHF593CFT
2-3/4	5044CH188FT	5044CHF593CFT
3	5048CH188FT	5048CHF593CFT

1/2" Diameter (1/2-13UNC)		
L	SPS Part Number	
Length	18-8 Stainless	ASTM F593 304 Stainless
3-1/4	5052CH188FT	5052CHF593CFT
3-1/2	5056CH188FT	5056CHF593CFT
3-3/4	5060CH188FT	5060CHF593CFT
4	5064CH188FT	5064CHF593CFT
4-1/2	5072CH188FT	5072CHF593CFT
5	5080CH188FT	5080CHF593CFT
5-1/4	5084CH188FT	5084CHF593CFT
5-1/2	5088CH188FT	5088CHF593CFT
6	5096CH188FT	5096CHF593CFT
7	50112CH188FT	50112CHF593CFT
8	50128CH188FT	50128CHF593CFT
9	50144CH188FT	50144CHF593CFT
10	50160CH188FT	50160CHF593CFT
12	50192CH188FT	50192CHF593CFT

## NOTES

- Hex Cap Screw per ASME B18.2.1 except all lengths are fully threaded
- Chamfered Bolt Nose
- Materials available:
  - 18-8 Stainless Steel: Heads Stamped 304
  - ASTM F593 304 Stainless Steel: Heads Stamped F593C
- Domestic: Add "D" to end of SPS Part Number

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: 1/2"-13UNC HEX CAP SCREWS 18-8 SS FULL THREAD



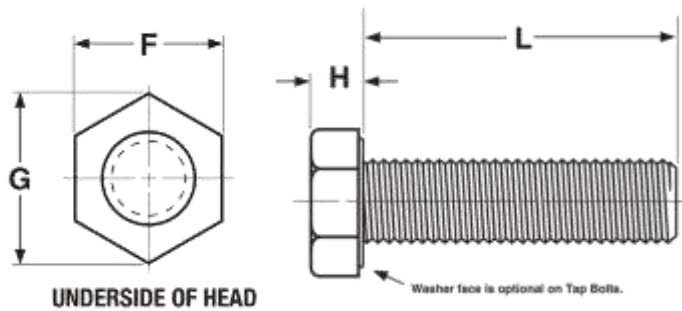
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Basic Product Dia.	F			G		H		
	Width Across Flats			Width Across Corners		Head Height		
	Basic	Max	Min	Max	Min	Basic	Max	Min
1/2	3/4	0.750	0.725	0.866	0.840	5/16	0.323	0.302

### NOTES

- Hex Cap Screw per ASME B18.2.1 except all lengths are fully threaded
- Chamfered Bolt Nose
- Materials available:
  - 316 Stainless Steel: Heads Stamped 316
  - ASTM F593 316 Stainless Steel: Heads Stamped F593G
- Domestic: Add "D" to end of SPS Part Number

1/2" Diameter (1/2-13UNC)		
L	SPS Part Number	
Length	316 Stainless	ASTM F593 316 Stainless
3/4	5012CH316	5012CHF593G
7/8	5014CH316	5014CHF593G
1	5016CH316	5016CHF593G
1-1/8	5018CH316	5018CHF593G
1-1/4	5020CH316	5020CHF593G
1-3/8	5022CH316	5022CHF593G
1-1/2	5024CH316	5024CHF593G
1-5/8	5026CH316	5026CHF593G
1-3/4	5028CH316	5028CHF593G
2	5032CH316FT	5032CHF593GFT
2-1/4	5036CH316FT	5036CHF593GFT
2-1/2	5040CH316FT	5040CHF593GFT
2-3/4	5044CH316FT	5044CHF593GFT
3	5048CH316FT	5048CHF593GFT

1/2" Diameter (1/2-13UNC)		
L	SPS Part Number	
Length	316 Stainless	ASTM F593 316 Stainless
3-1/4	5052CH316FT	5052CHF593GFT
3-1/2	5056CH316FT	5056CHF593GFT
3-3/4	5060CH316FT	5060CHF593GFT
4	5064CH316FT	5064CHF593GFT
4-1/2	5072CH316FT	5072CHF593GFT
5	5080CH316FT	5080CHF593GFT
5-1/2	5088CH316FT	5088CHF593GFT
6	5096CH316FT	5096CHF593GFT
7	50112CH316FT	50112CHF593GFT
8	50128CH316FT	50128CHF593GFT

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: 1/2"-13UNC HEX CAP SCREWS 316 SS FULL THREAD



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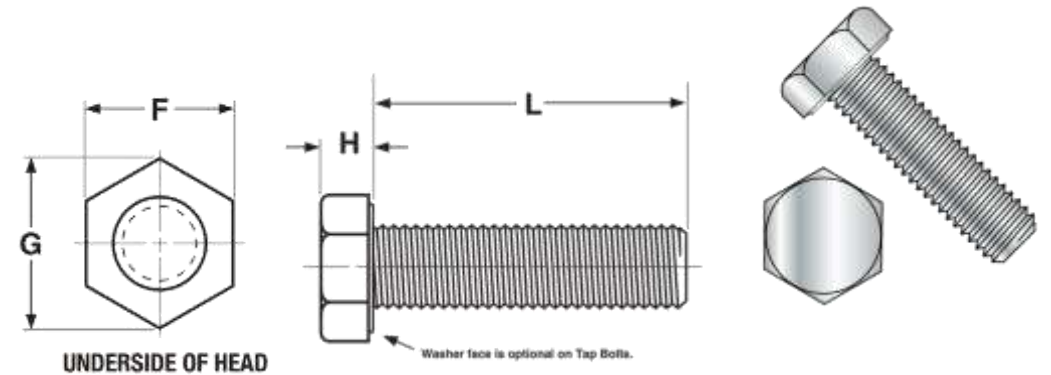
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Nominal Diameter	Threads Per Inch	L Length	SPS Part Number			
			316 Stainless Head Stamped 316		ASTM F593 316 Stainless Head Stamped F593G	
			Ref	Import	Domestic	Import
1/2	13	3/4	5012CH316	5012CH316D	5012CHF593G	5012CHF593GD
1/2	13	7/8	5014CH316	5014CH316D	5014CHF593G	5014CHF593GD
1/2	13	1	5016CH316	5016CH316D	5016CHF593G	5016CHF593GD
1/2	13	1-1/8	5018CH316	5018CH316D	5018CHF593G	5018CHF593GD
1/2	13	1-1/4	5020CH316	5020CH316D	5020CHF593G	5020CHF593GD
1/2	13	1-3/8	5022CH316	5022CH316D	5022CHF593G	5022CHF593GD
1/2	13	1-1/2	5024CH316	5024CH316D	5024CHF593G	5024CHF593GD
1/2	13	1-5/8	5026CH316	5026CH316D	5026CHF593G	5026CHF593GD
1/2	13	1-3/4	5028CH316	5028CH316D	5028CHF593G	5028CHF593GD
1/2	13	2	5032BHT316	5032BHT316D	5032BHTF593G	5032BHTF593GD
1/2	13	2-1/4	5036BHT316	5036BHT316D	5036BHTF593G	5036BHTF593GD
1/2	13	2-1/2	5040BHT316	5040BHT316D	5040BHTF593G	5040BHTF593GD
1/2	13	2-3/4	5044BHT316	5044BHT316D	5044BHTF593G	5044BHTF593GD
1/2	13	3	5048BHT316	5048BHT316D	5048BHTF593G	5048BHTF593GD
1/2	13	3-1/2	5056BHT316	5056BHT316D	5056BHTF593G	5056BHTF593GD
1/2	13	4	5064BHT316	5064BHT316D	5064BHTF593G	5064BHTF593GD
1/2	13	4-1/2	5072BHT316	5072BHT316D	5072BHTF593G	5072BHTF593GD
1/2	13	5	5080BHT316	5080BHT316D	5080BHTF593G	5080BHTF593GD
1/2	13	6	5096BHT316	5096BHT316D	5096BHTF593G	5096BHTF593GD
1/2	13	7	50112BHT316	50112BHT316D	50112BHTF593G	50112BHTF593GD
1/2	13	8	50128BHT316	50128BHT316D	50128BHTF593G	50128BHTF593GD



Basic Product Dia.	F			G		H		
	Width Across Flats			Width Across Corners		Head Height		
	Basic	Max	Min	Max	Min	Basic	Max	Min
1/2	3/4	0.750	0.725	0.866	0.826	11/32	0.364	0.302

**NOTES**

- Hex tap bolts are fully threaded
- Fully threaded hex cap screws are supplied in place of tap bolts when more readily available unless explicitly excluded when quoting or ordering
- Dimensions to ANSI/ASME B18.2.1
- Materials available:
  - 316 Stainless Steel
  - ASTM F593 316 Stainless Steel

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

**TITLE: 1/2" HEX TAP BOLTS 316 STAINLESS STEEL**



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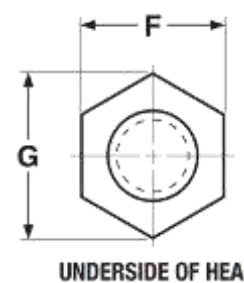
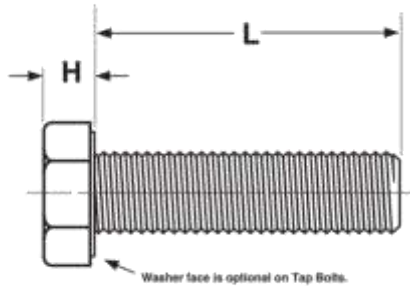
1/4" Diameter (1/4-20UNC)	
L Length	SPS Part Number
3/8	2506CHSB
1/2	2508CHSB
5/8	2510CHSB
3/4	2512CHSB
7/8	2514CHSB
1	2516CHSB
1-1/8	2518CHSB
1-1/4	2520CHSBFT
1-1/2	2524CHSBFT
1-3/4	2528CHSBFT
2	2532CHSBFT
2-1/4	2536CHSBFT
2-1/2	2540CHSBFT
2-3/4	2544CHSBFT
3	2548CHSBFT
3-1/4	2552CHSBFT
3-1/2	2556CHSBFT
4	2564CHSBFT

5/16" Diameter (5/16-18UNC)	
L Length	SPS Part Number
3/8	3106CHSB
1/2	3108CHSB
5/8	3110CHSB
3/4	3112CHSB
7/8	3114CHSB
1	3116CHSB
1-1/4	3120CHSB
1-1/2	3124CHSBFT
1-3/4	3128CHSBFT
2	3132CHSBFT
2-1/4	3136CHSBFT
2-1/2	3140CHSBFT
3	3148CHSBFT
3-1/2	3156CHSBFT
4	3164CHSBFT
4-1/2	3172CHSBFT
5	3180CHSBFT

3/8" Diameter (3/8-16UNC)	
L Length	SPS Part Number
1/2	3708CHSB
5/8	3710CHSB
3/4	3712CHSB
7/8	3714CHSB
1	3716CHSB
1-1/8	3718CHSB
1-1/4	3720CHSB
1-1/2	3724CHSBFT
1-3/4	3728CHSBFT
2	3732CHSBFT
2-1/4	3736CHSBFT
2-1/2	3740CHSBFT
2-3/4	3744CHSBFT
3	3748CHSBFT
3-1/4	3752CHSBFT
3-1/2	3756CHSBFT
4	3764CHSBFT
4-1/2	3772CHSBFT
4-3/4	3776CHSBFT
5	3780CHSBFT
5-1/2	3788CHSBFT
6	3796CHSBFT

1/2" Diameter (1/2-13UNC)	
L Length	SPS Part Number
3/4	5012CHSB
7/8	5014CHSB
1	5016CHSB
1-1/4	5020CHSB
1-1/2	5024CHSB
1-3/4	5028CHSB
2	5032CHSBFT
2-1/4	5036CHSBFT
2-1/2	5040CHSBFT
2-3/4	5044CHSBFT
3	5048CHSBFT
3-1/4	5052CHSBFT
3-1/2	5056CHSBFT
3-3/4	5060CHSBFT
4	5064CHSBFT
4-1/2	5072CHSBFT
5	5080CHSBFT
5-1/2	5088CHSBFT
6	5096CHSBFT
8	50128CHSBFT

5/8" Diameter (5/8-11 UNC)	
L Length	SPS Part Number
3/4	6212CHSB
1	6216CHSB
1-1/4	6220CHSB
1-1/2	6224CHSB
1-3/4	6228CHSB
2	6232CHSB
2-1/4	6236CHSBFT
2-1/2	6240CHSBFT
2-3/4	6244CHSBFT
3	6248CHSBFT
3-1/4	6252CHSBFT
3-1/2	6256CHSBFT
3-3/4	6260CHSBFT
4	6264CHSBFT
4-1/2	6272CHSBFT
4-3/4	6276CHSBFT
5	6280CHSBFT
5-1/2	6288CHSBFT
6	6296CHSBFT



UNDERSIDE OF HEAD

Nominal or Basic Product Diameter	F			G		H		
	Width Across Flats			Width Across Corners		Head Height		
	Basic	Max	Min	Max	Min	Basic	Max	Min
1/4	7/16	0.438	0.428	0.505	0.488	5/32	0.163	0.150
5/16	1/2	0.500	0.489	0.577	0.557	13/64	0.211	0.195
3/8	9/16	0.562	0.551	0.650	0.628	15/64	0.243	0.226
7/16	5/8	0.625	0.612	0.722	0.698	9/32	0.291	0.272
1/2	3/4	0.750	0.736	0.866	0.840	5/16	0.323	0.302
5/8	15/16	0.938	0.922	1.083	1.051	25/64	0.403	0.378
3/4	1-1/8	1.125	1.100	1.299	1.254	15/32	0.483	0.455
7/8	1-5/16	1.312	1.285	1.516	1.465	35/64	0.563	0.531
1	1-1/2	1.500	1.469	1.732	1.675	39/64	0.627	0.591

NOTES

- Hex Head Cap Screw Dimensions to ANSI/ASME B18.2.1
  - Exception: All Lengths Regardless of Diameter are Fully Threaded
- Material: 651, 655, or 656 Silicon Bronze Alloy per ASTM F468 (UNS C65100, C65500 or C65600)

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

5/16" Diameter (5/16-24UNF)	
L Length	SPS Part Number
1/2	3208CHSB
3/4	3212CHSB
1	3216CHSB
1-1/2	3224CHSBFT

3/8" Diameter (3/8-24UNF)	
L Length	SPS Part Number
3/4	3812CHSB
7/8	3814CHSB
1	3816CHSB
1-1/4	3820CHSB
1-1/2	3824CHSBFT
2	3832CHSBFT

7/16" Diameter (7/16-14UNC)	
L Length	SPS Part Number
3/4	4312CHSB
1-1/4	4320CHSB
2	4332CHSBFT
2-1/2	4340CHSBFT
3	4348CHSBFT

1/2" Diameter (1/2-20UNF)	
L Length	SPS Part Number
1	5116CHSB
1-1/2	5124CHSB
2	5132CHSBFT
3	5148CHSBFT

3/4" Diameter (3/4-10 UNC)	
L Length	SPS Part Number
1-1/2	7524CHSB
1-3/4	7528CHSB
2	7532CHSB
2-1/4	7536CHSB
2-1/2	7540CHSB
3	7548CHSBFT
4	7564CHSBFT
4-1/2	7572CHSBFT
5	7580CHSBFT
6	7596CHSBFT

TITLE: HEX CAP SCREW SILICON BRONZE FULL THREAD

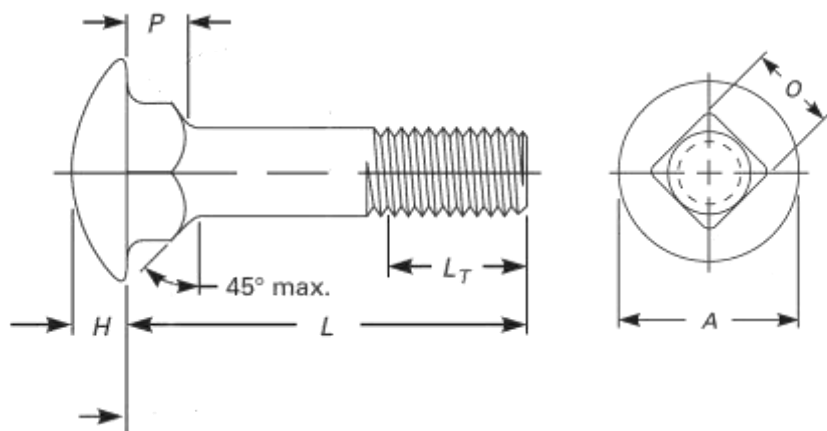
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### NOTES

1. Round Head Square Neck Carriage Bolt per ANSI/IEEE C135.1 and IEEE C135.80
2. Dimensions per ASME B18.5
3. Material: Low Carbon Steel
4. Finish: Hot Dip Galvanized to ASTM F2329
5. UNC Rolled Threads
6. Bolts 1/4" diameter and larger have manufacturer's head marking on top

Basic Bolt Diameter	A		H		O		P		Tensile Strength Pounds-force (lbf)
	Head Diameter		Head Height		Square Width		Square Depth		
	Max	Min	Max	Min	Max	Min	Max	Min	Min
3/8	0.844	0.782	0.208	0.188	0.388	0.368	0.219	0.188	4,250
5/8	1.344	1.219	0.344	0.313	0.642	0.616	0.344	0.313	12,400

Bolt Dia.	Threads Per Inch	L	L <sub>T</sub>	SPS Part Number	
		Length	Min. Thread Length	Import	Domestic
3/8	16	5	3	3780BC03	3780BC03D
3/8	16	7	3	37112BC03	37112BC03D
3/8	16	10	4	37160BC03	37160BC03D
3/8	16	12	4	37192BC03	37192BC03D
5/8	11	7	6	62112BC03	62112BC03D

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TITLE: <b>CARRIAGE BOLTS GALVANIZED</b>			
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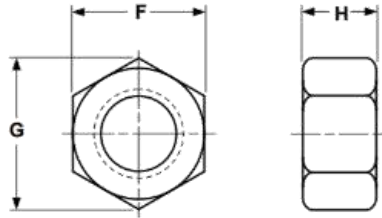
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Nominal or Basic Major Diameter of Thread	Threads per Inch	F			G		H			SPS Part Number
		Width Across Flats			Width Across Corners		Thickness of Nuts			
		Basic	Max	Min	Max	Min	Basic	Max	Min	
1/4	20	7/16	0.438	0.428	0.505	0.488	7/32	0.226	0.212	25NFO3
5/16	18	1/2	0.500	0.489	0.577	0.557	17/64	0.273	0.258	31NFO3
3/8	16	9/16	0.562	0.551	0.650	0.628	21/64	0.337	0.320	37NFO3
7/16	14	11/16	0.688	0.675	0.794	0.768	3/8	0.385	0.365	43NFO3
1/2	13	3/4	0.750	0.736	0.866	0.840	7/16	0.448	0.427	50NFO3
9/16	12	7/8	0.875	0.861	1.010	0.982	31/64	0.496	0.473	56NFO3
5/8	11	15/16	0.938	0.922	1.083	1.051	35/64	0.559	0.535	62NFO3
3/4	10	1-1/8	1.125	1.088	1.299	1.240	41/64	0.665	0.617	75NFO3
7/8	9	1-5/16	1.312	1.269	1.516	1.447	3/4	0.776	0.724	87NFO3
1	8	1-1/2	1.500	1.450	1.732	1.653	55/64	0.887	0.831	100NFO3
1-1/8	7	1-11/16	1.688	1.631	1.949	1.859	31/32	0.999	0.939	112NFO3
1-1/4	7	1-7/8	1.875	1.812	2.165	2.066	1-1/16	1.094	1.030	125NFO3
1-3/8	6	2-1/16	2.062	1.994	2.382	2.273	1-11/64	1.206	1.138	137NFO3
1-1/2	6	2-1/4	2.250	2.175	2.598	2.480	1-9/32	1.317	1.245	150NFO3
1-5/8	5.5	2-7/16	2.438	2.356	2.815	2.686	1-25/64	1.429	1.353	162NFO3
1-3/4	5	2-5/8	2.625	2.538	3.031	2.893	1-1/2	1.540	1.460	175NFO3
2	4.5	3	3.000	2.900	3.464	3.306	1-23/32	1.763	1.675	200NFO3
2-1/4	4.5	3-3/8	3.375	3.263	3.897	3.719	1-15/16	1.986	1.890	225NFO3
2-1/2	4	3-3/4	3.750	3.625	4.330	4.133	2-5/32	2.209	2.105	250NFO3
2-3/4	4	4-1/8	4.125	3.988	4.763	4.546	2-3/8	2.431	2.319	275NFO3
3	4	4-1/2	4.500	4.350	5.196	4.959	2-19/32	2.654	2.534	300NFO3

For sizes not shown, please contact SPS Sales

### NOTES

1. Dimensions to ANSI/ASME B18.2.2
2. Material: Low Carbon Steel per SAE J995 Grade 2
3. Finish: Hot Dip Galvanized per ASTM F2329
4. Meets all requirements of ANSI/IEEE C135.1 and IEEE C135.80

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: Finished Hex Nuts Low Carbon Steel Galvanized



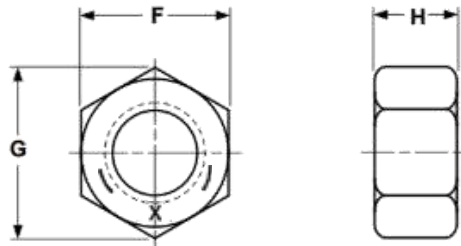
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Nominal or Basic Major Diameter of Thread	Threads per Inch	F			G		H			SPS Part Number
		Width Across Flats			Width Across Corners		Thickness of Nuts			
		Basic	Max	Min	Max	Min	Basic	Max	Min	
1/4	20	7/16	0.438	0.428	0.505	0.488	7/32	0.226	0.212	25NF503
5/16	18	1/2	0.500	0.489	0.577	0.557	17/64	0.273	0.258	31NF503
3/8	16	9/16	0.562	0.551	0.650	0.628	21/64	0.337	0.320	37NF503
7/16	14	11/16	0.688	0.675	0.794	0.768	3/8	0.385	0.365	43NF503
1/2	13	3/4	0.750	0.736	0.866	0.840	7/16	0.448	0.427	50NF503
9/16	12	7/8	0.875	0.861	1.010	0.982	31/64	0.496	0.473	56NF503
5/8	11	15/16	0.938	0.922	1.083	1.051	35/64	0.559	0.535	62NF503
3/4	10	1-7/8	1.125	1.088	1.299	1.240	41/64	0.665	0.617	75NF503
7/8	9	1-5/16	1.312	1.269	1.516	1.447	3/4	0.776	0.724	87NF503
1	8	1-1/2	1.500	1.450	1.732	1.653	55/64	0.887	0.831	100NF503
1-1/8	7	1-11/16	1.688	1.631	1.949	1.859	31/32	0.999	0.939	112NF503
1-1/4	7	1-7/8	1.875	1.812	2.165	2.066	1-1/16	1.094	1.030	125NF503
1-3/8	6	2-1/16	2.062	1.994	2.382	2.273	1-11/64	1.206	1.138	137NF503
1-1/2	6	2-1/4	2.250	2.175	2.598	2.480	1-9/32	1.317	1.245	150NF503
1-5/8	5.5	2-7/16	2.438	2.356	2.815	2.686	1-25/64	1.429	1.353	162NF503
1-3/4	5	2-5/8	2.625	2.538	3.031	2.893	1-1/2	1.540	1.460	175NF503
2	4.5	3	3.000	2.900	3.464	3.306	1-23/32	1.763	1.675	200NF503
2-1/4	4.5	3-3/8	3.375	3.263	3.897	3.719	1-15/16	1.986	1.890	225NF503
2-1/2	4	3-3/4	3.750	3.625	4.330	4.133	2-5/32	2.209	2.105	250NF503
2-3/4	4	4-1/8	4.125	3.988	4.763	4.546	2-3/8	2.431	2.319	275NF503
3	4	4-1/2	4.500	4.350	5.196	4.959	2-19/32	2.654	2.534	300NF503

For sizes not shown, please contact SPS Sales

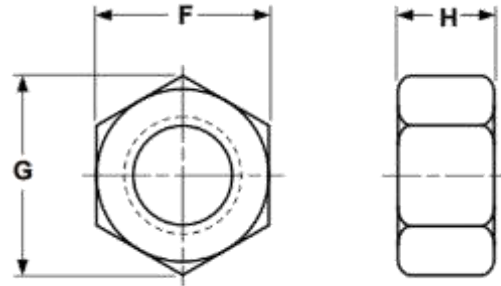
### NOTES

1. Dimensions to ANSI/ASME B18.2.2
2. Material: Medium Carbon Steel per SAE J995 Grade 5
3. Finish: Hot Dip Galvanized per ASTM F2329

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: Finished Hex Nuts Grade 5 Galvanized				
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com			
	<table border="1"> <tr> <th>REV</th> <th>DATE</th> </tr> <tr> <td>A</td> <td>05/01/2022</td> </tr> </table>	REV	DATE	A
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A	05/01/2022			





Nominal Size or Basic Major Diameter of Thread	Threads Per Inch	F			G		H			SPS Part Number			
		Width Across Flats			Width Across Corners		Thickness			ASTM A563 Grade DH HDG		ASTM A194 Grade 2H HDG	
		Basic	Max	Min	Max	Min	Basic	Max	Min	Import	Domestic	Import	Domestic
1/2	13	7/8	0.875	0.850	1.010	0.969	31/64	0.504	0.464	50NDH03	50NDH03D	50N2H03	50N2H03D
5/8	11	1-1/16	1.062	1.031	1.227	1.175	39/64	0.631	0.587	62NDH03	62NDH03D	62N2H03	62N2H03D
3/4	10	1-1/4	1.250	1.212	1.443	1.383	47/64	0.758	0.710	75NDH03	75NDH03D	75N2H03	75N2H03D
7/8	9	1-7/16	1.438	1.394	1.660	1.589	55/64	0.885	0.833	87NDH03	87NDH03D	87N2H03	87N2H03D
1	8	1-5/8	1.625	1.575	1.876	1.796	63/64	1.012	0.956	100NDH03	100NDH03D	100N2H03	100N2H03D
1-1/8	7	1-13/16	1.812	1.756	2.093	2.002	1-7/64	1.139	1.079	112NDH03	112NDH03D	112N2H03	112N2H03D
1-1/4	7	2	2.000	1.938	2.309	2.209	1-7/32	1.251	1.187	125NDH03	125NDH03D	125N2H03	125N2H03D
1-3/8	6	2-3/16	2.188	2.119	2.526	2.416	1-11/32	1.378	1.310	137NDH03	137NDH03D	137N2H03	137N2H03D
1-1/2	6	2-3/8	2.375	2.300	2.742	2.622	1-15/32	1.505	1.433	150NDH03	150NDH03D	150N2H03	150N2H03D

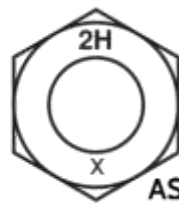
**NOTES**

1. Heavy Hex Nut Dimensions per ANSI/ASME B18.2.2 & B18.2.6
2. Material available:
  - ASTM A563 Grade DH
  - ASTM A194 Grade 2H
3. Finish: Hot Dip Galvanized to ASTM F2329
4. Threads are tapped oversized after galvanizing in accordance with ASTM A563
5. Marked in accordance with the requirements of ASTM A563, Grade DH, or ASTM A194, Grade 2H, as applicable, in addition to the manufacturer's symbol or identification mark

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.



ASTM A563 Grade DH



ASTM A194 Grade 2H

For sizes not shown, please contact SPS Sales

TITLE: NUT, HEAVY HEX, 2H OR DH GALVANIZED				
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com			
	<table border="1"> <tr> <th>REV</th> <th>DATE</th> </tr> <tr> <td>A</td> <td>05/02/2022</td> </tr> </table>	REV	DATE	A
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A	05/02/2022			

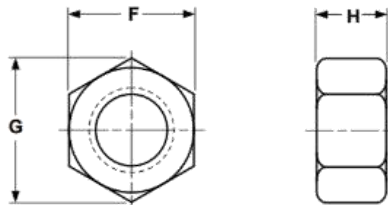
Nominal or Basic Major Diameter of Thread	Threads per Inch	F			G		H			SPS Part Number			
		Width Across Flats			Width Across Corners		Thickness of Nuts			304 Stainless Steel		316 Stainless Steel	
		Basic	Max	Min	Max	Min	Basic	Max	Min	18-8 Stainless	ASTM F594 Type 304	316 Stainless	ASTM F594 Type 316
1/4	20	7/16	0.438	0.428	0.505	0.488	7/32	0.226	0.212	25NF188	25NFF594C	25NF316	25NFF594G
5/16	18	1/2	0.500	0.489	0.577	0.557	17/64	0.273	0.258	31NF188	31NFF594C	31NF316	31NFF594G
3/8	16	9/16	0.562	0.551	0.650	0.628	21/64	0.337	0.320	37NF188	37NFF594C	37NF316	37NFF594G
7/16	14	11/16	0.688	0.675	0.794	0.768	3/8	0.385	0.365	43NF188	43NFF594C	43NF316	43NFF594G
1/2	13	3/4	0.750	0.736	0.866	0.840	7/16	0.448	0.427	50NF188	50NFF594C	50NF316	50NFF594G
9/16	12	7/8	0.875	0.861	1.010	0.982	31/64	0.496	0.473	56NF188	56NFF594C	56NF316	56NFF594G
5/8	11	15/16	0.938	0.922	1.083	1.051	35/64	0.559	0.535	62NF188	62NFF594C	62NF316	62NFF594G
3/4	10	1-1/8	1.125	1.088	1.299	1.240	41/64	0.665	0.617	75NF188	75NFF594D	75NF316	75NFF594H
7/8	9	1-5/16	1.312	1.269	1.516	1.447	3/4	0.776	0.724	87NF188	87NFF594D	87NF316	87NFF594H
1	8	1-1/2	1.500	1.450	1.732	1.653	55/64	0.887	0.831	100NF188	100NFF594D	100NF316	100NFF594H
1-1/8	7	1-11/16	1.688	1.631	1.949	1.859	31/32	0.999	0.939	112NF188	112NFF594D	112NF316	112NFF594H
1-1/4	7	1-7/8	1.875	1.812	2.165	2.066	1-1/16	1.094	1.030	125NF188	125NFF594D	125NF316	125NFF594H
1-3/8	6	2-1/16	2.062	1.994	2.382	2.273	1-11/64	1.206	1.138	137NF188	137NFF594D	137NF316	137NFF594H
1-1/2	6	2-1/4	2.250	2.175	2.598	2.480	1-9/32	1.317	1.245	150NF188	150NFF594D	150NF316	150NFF594H
1-5/8	5.5	2-7/16	2.438	2.356	2.815	2.686	1-25/64	1.429	1.353	162NF188	162NFF594D	162NF316	162NFF594H
1-3/4	5	2-5/8	2.625	2.538	3.031	2.893	1-1/2	1.540	1.460	175NF188	175NFF594D	175NF316	175NFF594H
2	4.5	3	3.000	2.900	3.464	3.306	1-23/32	1.763	1.675	200NF188	200NFF594D	200NF316	200NFF594H
2-1/4	4.5	3-3/8	3.375	3.263	3.897	3.719	1-15/16	1.986	1.890	225NF188	225NFF594D	225NF316	225NFF594H
2-1/2	4	3-3/4	3.750	3.625	4.330	4.133	2-5/32	2.209	2.105	250NF188	250NFF594D	250NF316	250NFF594H
2-3/4	4	4-1/8	4.125	3.988	4.763	4.546	2-3/8	2.431	2.319	275NF188	275NFF594D	275NF316	275NFF594H
3	4	4-1/2	4.500	4.350	5.196	4.959	2-19/32	2.654	2.534	300NF188	300NFF594D	300NF316	300NFF594H



**NOTES**

- Dimensions to ANSI/ASME B18.2.2
- Material available:
  - 18-8 Stainless Steel
  - ASTM F594 304 Stainless Steel
  - 316 Stainless Steel
  - ASTM F594 316 Stainless Steel

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.



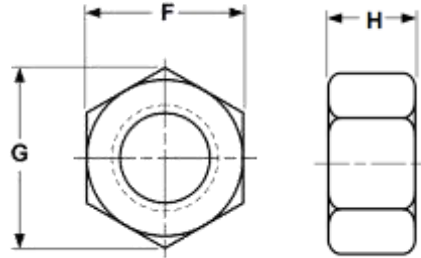
For sizes not shown, please contact SPS Sales

**TITLE:** Finished Hex Nuts Stainless Steel



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Nominal or Basic Major Diameter of Thread	Threads per Inch	F			G		H			SPS Part Number
		Width Across Flats			Width Across Corners		Thickness of Nuts			
		Basic	Max	Min	Max	Min	Basic	Max	Min	
1/4	20	7/16	0.438	0.428	0.505	0.488	7/32	0.226	0.212	25NFSB
5/16	18	1/2	0.500	0.489	0.577	0.557	17/64	0.273	0.258	31NFSB
3/8	16	9/16	0.562	0.551	0.650	0.628	21/64	0.337	0.320	37NFSB
7/16	14	11/16	0.688	0.675	0.794	0.768	3/8	0.385	0.365	43NFSB
1/2	13	3/4	0.750	0.736	0.866	0.840	7/16	0.448	0.427	50NFSB
9/16	12	7/8	0.875	0.861	1.010	0.982	31/64	0.496	0.473	56NFSB
5/8	11	15/16	0.938	0.922	1.083	1.051	35/64	0.559	0.535	62NFSB
3/4	10	1-1/8	1.125	1.088	1.299	1.240	41/64	0.665	0.617	75NFSB
7/8	9	1-5/16	1.312	1.269	1.516	1.447	3/4	0.776	0.724	87NFSB
1	8	1-1/2	1.500	1.450	1.732	1.653	55/64	0.887	0.831	100NFSB
1-1/8	7	1-11/16	1.688	1.631	1.949	1.859	31/32	0.999	0.939	112NFSB
1-1/4	7	1-7/8	1.875	1.812	2.165	2.066	1-1/16	1.094	1.030	125NFSB
1-3/8	6	2-1/16	2.062	1.994	2.382	2.273	1-11/64	1.206	1.138	137NFSB
1-1/2	6	2-1/4	2.250	2.175	2.598	2.480	1-9/32	1.317	1.245	150NFSB
1-5/8	5.5	2-7/16	2.438	2.356	2.815	2.686	1-25/64	1.429	1.353	162NFSB
1-3/4	5	2-5/8	2.625	2.538	3.031	2.893	1-1/2	1.540	1.460	175NFSB
2	4.5	3	3.000	2.900	3.464	3.306	1-23/32	1.763	1.675	200NFSB
2-1/4	4.5	3-3/8	3.375	3.263	3.897	3.719	1-15/16	1.986	1.890	225NFSB
2-1/2	4	3-3/4	3.750	3.625	4.330	4.133	2-5/32	2.209	2.105	250NFSB
2-3/4	4	4-1/8	4.125	3.988	4.763	4.546	2-3/8	2.431	2.319	275NFSB
3	4	4-1/2	4.500	4.350	5.196	4.959	2-19/32	2.654	2.534	300NFSB

For sizes not shown, please contact SPS Sales

## NOTES

1. Dimensions to ANSI/ASME B18.2.2
2. Material: 651, 655, or 656 Silicon Bronze Alloy per ASTM F467 (UNS C65100, C65500 or C65600)

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: Finished Hex Nut, Coarse Thread, Silicon Bronze



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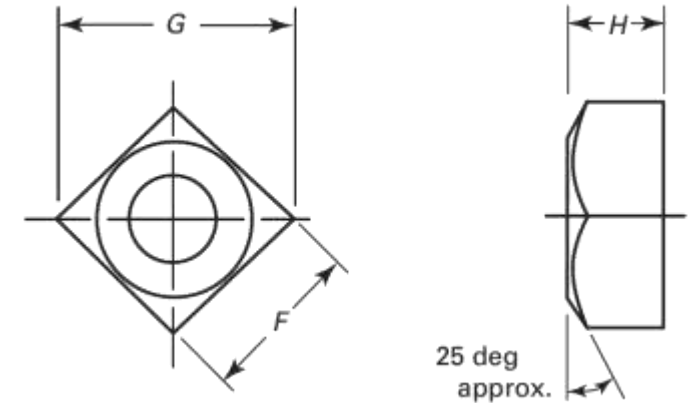
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SPS Part Number		Nominal or Basic Major Diameter of Thread	Threads Per Inch UNC	F			G		H		
				Width Across Flats			Width Across Corners		Thickness of Nuts		
Import	Domestic			Basic	Max	Min	Max	Min	Basic	Max	Min
25NQRO3	25NQRO3D	1/4	20	7/16	0.438	0.425	0.619	0.554	7/32	0.235	0.203
31NQRO3	31NQRO3D	5/16	18	9/16	0.562	0.547	0.795	0.721	17/64	0.283	0.249
SPS-8561	SPS-8561D	3/8	16	5/8	0.625	0.606	0.884	0.802	21/64	0.346	0.310
43NQRO3	43NQRO3D	7/16	14	3/4	0.750	0.728	1.061	0.970	3/8	0.394	0.356
SPS-8562	SPS-8562D	1/2	13	13/16	0.812	0.788	1.149	1.052	7/16	0.458	0.418
SPS-8563	SPS-8563D	5/8	11	1	1.000	0.969	1.414	1.300	35/64	0.569	0.525
SPS-8564	SPS-8564D	3/4	10	1-1/8	1.125	1.088	1.591	1.464	21/32	0.680	0.632
SPS-8564-1/2	SPS-8564-1/2D	7/8	9	1-5/6	1.312	1.269	1.856	1.712	49/64	0.792	0.740
SPS-8565	SPS-8565D	1	8	1-1/2	1.500	1.450	2.121	1.961	7/8	0.903	0.847
112NQRO3	112NQRO3D	1-1/8	7	1-11/16	1.688	1.631	2.386	2.209	1	1.030	0.970
125NQRO3	125NQRO3D	1-1/4	7	1-7/8	1.875	1.812	2.652	2.458	1-3/32	1.126	1.062
137NQRO3	137NQRO3D	1-3/8	6	2-1/16	2.062	1.994	2.917	2.708	1-13/64	1.237	1.169
150NQRO3	150NQRO3D	1-1/2	6	2-1/4	2.250	2.175	3.182	2.956	1-5/16	1.348	1.276



For sizes not shown, please contact SPS Sales  
Dimensions in inches unless otherwise noted

All references to standards are the latest revision unless a specific revision is identified.

#### NOTES

1. Regular Square Nut Dimensions per ANSI/ASME B18.2.2
2. Finish: Hot Dip Galvanized to ASTM F2329
3. Threads are tapped UNC Class 2B after galvanizing, oversize for galvanized bolts and rods
4. Nuts meet all requirements of ANSI/IEEE C135.1 and IEEE C135.80

TITLE: NUT, SQUARE REGULAR GALVANIZED



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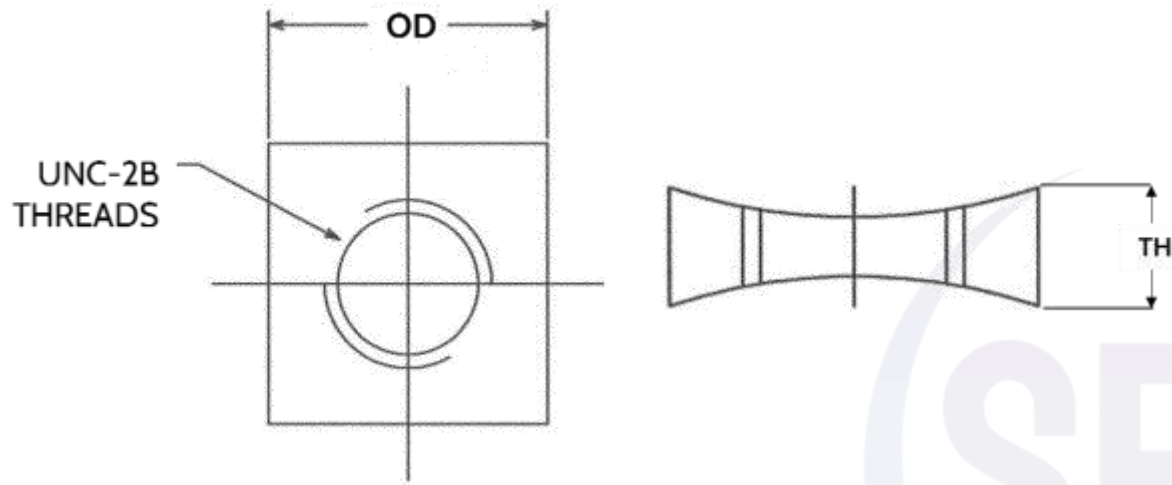
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**NOTES**

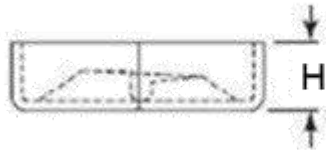
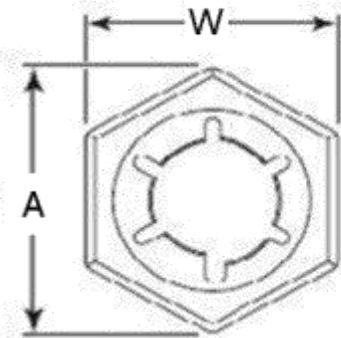
1. Square Curved MF Locknut (Concave Locknut)
2. Material: Low Carbon Steel
3. Hot Dip Galvanized per ASTM A153

Nominal or Basic Major Diameter of Thread	Threads Per Inch UNC	OD	TH	SPS Part Number
		Width	Major Thickness	
3/8	16	5/8	1/4	SPS-8581
1/2	13	13/16	19/64	SPS-8582
5/8	11	1	3/8	SPS-8583
3/4	10	1-1/8	7/16	SPS-8584
7/8	9	1-5/16	15/32	SPS-8584-1/2
1	8	1-1/2	15/32	SPS-8585

Dimensions in inches unless otherwise noted  
 All references to standards are the latest revision unless a specific revision is identified.

TITLE: LOCKNUT, MF SQUARE CURVED HDG						
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com	<table border="1"> <tr> <th>REV</th> <th>DATE</th> </tr> <tr> <td>A</td> <td>01/23/2023</td> </tr> </table>	REV	DATE	A	01/23/2023
	REV	DATE				
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For sizes not shown, please contact SPS Sales



Nominal Bolt or Screw Size and Threads per Inch	W	H	A	SPS Part Number
	Hex Width	Height	Across Corners Max	
1/4-32	7/16	.118	.505	2707NPO3
1/4-28	7/16	.118	.505	2607NPO3
1/4-20	7/16	.123	.505	2507NPO3
1/4-20	1/2	.134	.578	2508NPO3
5/16-18	1/2	.134	.578	3108NPO3
3/8-16	9/16	.145	.650	3709NPO3
3/8-16	5/8	.156	.722	3710NPO3
7/16-14	3/4	.168	.866	4312NPO3
1/2-13	3/4	.179	.866	5012NPO3
5/8-11	15/16	.213	1.083	6215NPO3
5/8-11	1	.224	1.155	6216NPO3
3/4-10	1-1/8	.246	1.299	7518NPO3
3/4-10	1-1/4	.269	1.443	7520NPO3
1-8	1-5/8	.336	1.877	10026NPO3

## NOTES

1. Regular Type Hex Lock Nut (Palnut)
2. Design 3: 6 Notches
3. Material: Spring Steel
4. Mechanically Galvanized per ASTM B695

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: HEX LOCK NUT REGULAR TYPE DESIGN 3 W/6 NOTCHES GALVANIZED



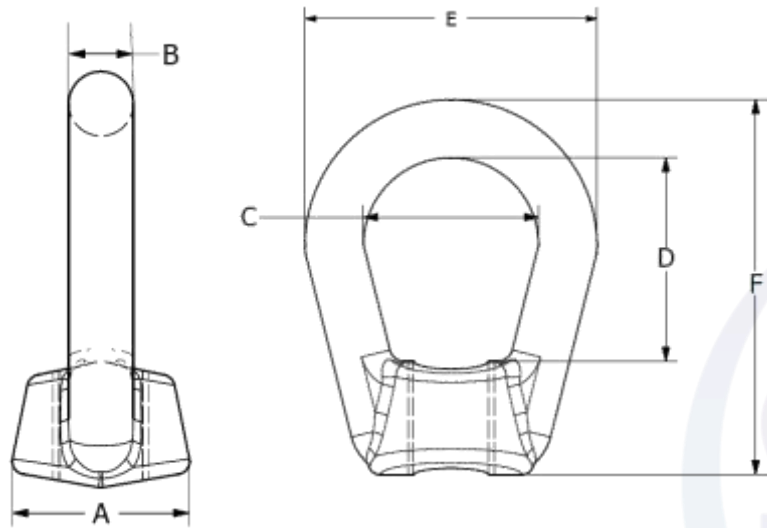
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#### NOTES

1. Forged Oval Eye Nuts per ANSI/IEEE C135.5 and IEEE C135.80
2. Material: Hot Forged Steel
3. Finish: Hot Dip Galvanized per ASTM A153
4. Designed to develop strength ratings consistent with the bolts with which they are used.

Bolt Size & Threads	A	B	C	D	E	F	Ultimate Tensile Strength (lbs)	SPS Part Number
1/2-13	1-3/8	9/16	1-1/2	1-3/4	2-5/8	3	7,800	SPS-1091
5/8-11	1-3/8	9/16	1-1/2	1-3/4	2-5/8	3	12,400	SPS-1092
3/4-10	1-3/8	9/16	1-1/2	1-3/4	2-5/8	3	18,350	SPS-1093
7/8-9	1-7/8	3/4	2	2-5/8	3-1/2	4-5/16	25,400	SPS-EN80
1-8	1-7/8	3/4	2	2-5/8	3-1/2	4-5/16	33,500	SPS-EN100

Dimensions in inches unless otherwise noted  
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TITLE: FORGED OVAL EYE NUT HDG



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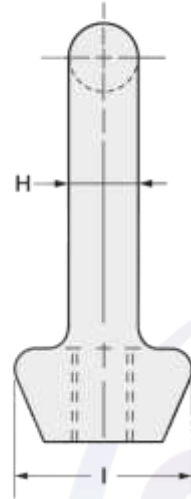
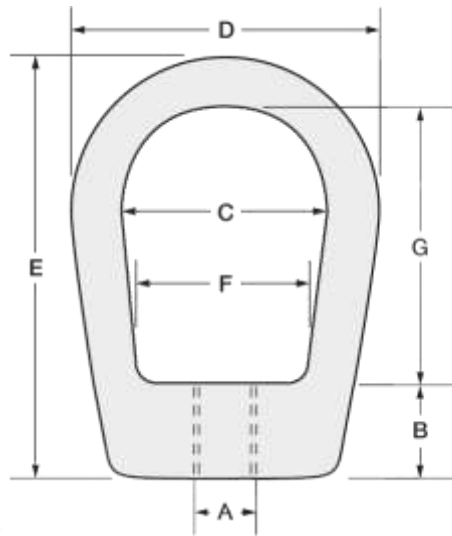
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For sizes not shown, please contact SPS Sales



## NOTES

1. Forged Oval Eye Nuts
2. Material: Forged Steel, C1030 or C1035
3. Finish: Hot Dip Galvanized per ASTM A153
4. Maximum Working Loads: Estimated with a Safety Factor 5:1
5. Supports loads equal to the full limitation of the hanger rod

A	Bail Size	B	C	D	E	F	G	H	I	Rated Capacity (lbs.)	SPS Part Number
Tap Size & UNC Threads	Thread Length	ID	OD	Overall Length	Bell	ID Length	Bail Thickness	Shoulder Width			
3/8-16	1/2	5/8	1-1/4	1-3/4	2-1/2	13/16	1-9/16	3/8	31/32	2900	3708NOEF03
1/2-13	1/2	5/8	1-1/4	1-3/4	2-1/2	13/16	1-9/16	3/8	31/32	3500	5008NOEF03
3/8-16	1	11/16	1-1/2	2-1/4	3-3/16	1-3/16	2	1/2	1-3/8	2900	37NOEF03
1/2-13	1	11/16	1-1/2	2-1/4	3-3/16	1-3/16	2	1/2	1-3/8	5200	50NOEF03
5/8-11	1	11/16	1-1/2	2-1/4	3-3/16	1-3/16	2	1/2	1-3/8	5500	62NOEF03
3/4-10	1	11/16	1-1/2	2-1/4	3-3/16	1-3/16	2	1/2	1-3/8	5500	75NOEF03
7/8-9	2	1	2	3-1/4	4-3/8	1-11/16	2-5/8	3/4	1-15/16	11000	87NOEF03
1-8	2	1	2	3-1/4	4-3/8	1-11/16	2-5/8	3/4	1-15/16	11000	100NOEF03
1-1/8-7	3	1-1/4	2-1/2	4-1/4	5-5/8	1-13/16	3-3/8	1	2-3/8	20000	112NOEF03
1-1/4-7	3	1-1/4	2-1/2	4-1/4	5-5/8	1-13/16	3-3/8	1	2-3/8	20000	125NOEF03
1-1/2-6	3	1-1/4	2-1/2	4-1/4	5-5/8	1-13/16	3-3/8	1	2-3/8	22000	150NOEF03
1-3/4-5	4	2-1/4	4	6-1/2	10	4	6-1/4	1-1/2	4	40000	175NOEF03
2-4.5	4	2-1/4	4	6-1/2	10	4	6-1/4	1-1/2	4	42000	200NOEF03
2-1/4-4.5	4	2-1/4	4	6-1/2	10	4	6-1/4	1-1/2	4	45000	225NOEF03
2-1/2-4	4	2-1/4	4	6-1/2	10	4	6-1/4	1-1/2	4	52000	250NOEF03

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: STANDARD FORGED OVAL EYE NUTS GALVANIZED



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www.spsutility.com

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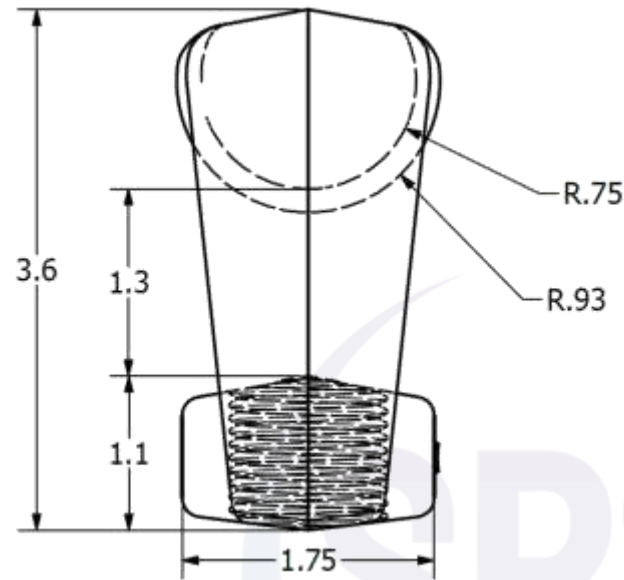
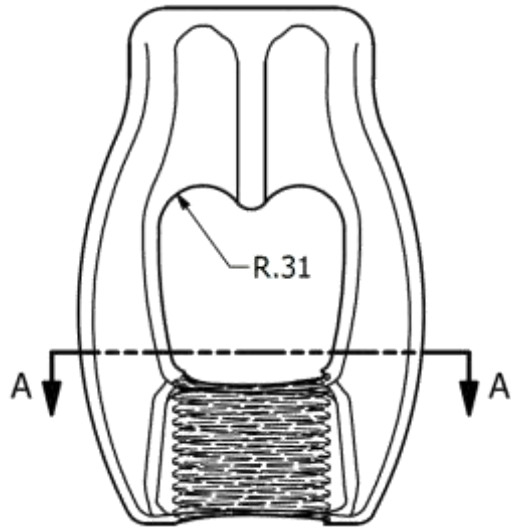
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For sizes not shown, please contact SPS Sales





**NOTES**

1. Forged Steel Hot Dip Galvanized per ASTM A153
2. SPS-6562H Base Painted Orange for Identification

Application	Thread Size Drilled and Tapped	Rating (lbs)	SPS Part Number
5/8" Bolt	.646-11UNS-2B	12,400	SPS-6515
3/4" Bolt	.771-10UNS-2B	18,350	SPS-6516
3/4" PISA Rod 1" PISA Rod 1" Bolt	1.021-8UNS-2B	36,000	SPS-6562
3/4" PISA Rod 1" PISA Rod	1.021-8UNS-2B	50,000	SPS-6562H
5/8" PISA Rod	.695-11UNS-2B	16,000	SPS-6560A

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: NUT, TWIN EYE HDG						
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com	<table border="1"> <tr> <th>REV</th> <th>DATE</th> </tr> <tr> <td>A</td> <td>06/09/2022</td> </tr> </table>	REV	DATE	A	06/09/2022
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A	06/09/2022					

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03

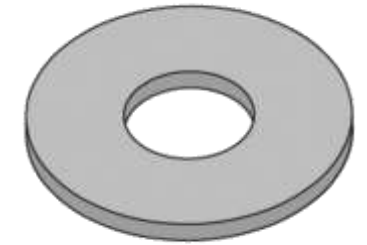
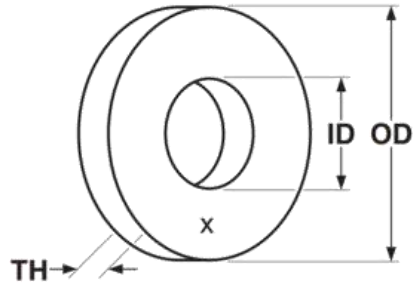
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Nominal Bolt or Screw Size	OD			ID		TH		SPS Part Number	
	Outside Diameter			Inside Diameter		Thickness			
	Basic	Max	Min	Max	Min	Max	Min	Import	Domestic
3/16 (#10)	9/16	0.577	0.557	0.265	0.245	0.065	0.036	10WUSS	10WUSSD
1/4	3/4	0.749	0.727	0.327	0.307	0.08	0.051	25WUSS	25WUSSD
5/16	7/8	0.905	0.868	0.39	0.37	0.104	0.064	31WUSS	31WUSSD
3/8	1	1.03	0.993	0.453	0.433	0.104	0.064	SPS-1084Z	SPS-1084ZD
7/16	1-1/4	1.28	1.243	0.515	0.495	0.104	0.064	43WUSS	43WUSSD
1/2	1-3/8	1.405	1.368	0.577	0.557	0.132	0.086	SPS-1086Z	SPS-1086ZD
9/16	1-1/2	1.499	1.462	0.64	0.62	0.132	0.086	56WUSS	56WUSSD
5/8	1-3/4	1.78	1.743	0.718	0.681	0.16	0.108	SPS-1088Z	SPS-1088ZD
3/4	2	2.03	1.993	0.842	0.805	0.177	0.122	SPS-1089Z	SPS-1089ZD
7/8	2-1/4	2.28	2.243	0.968	0.931	0.192	0.136	87WUSS	87WUSSD
1	2-1/2	2.53	2.493	1.092	1.055	0.192	0.136	100WUSS	100WUSSD
1-1/8	2-3/4	2.78	2.743	1.28	1.243	0.192	0.136	112WUSS	112WUSSD
1-1/4	3	3.03	2.993	1.405	1.368	0.192	0.136	125WUSS	125WUSSD
1-3/8	3-1/4	3.295	3.24	1.545	1.49	0.213	0.153	137WUSS	137WUSSD
1-1/2	3-1/2	3.545	3.49	1.67	1.615	0.213	0.153	150WUSS	150WUSSD
1-5/8	3-3/4	3.795	3.74	1.795	1.74	0.213	0.153	162WUSS	162WUSSD
1-3/4	4	4.045	3.99	1.92	1.865	0.213	0.153	175WUSS	175WUSSD
1-7/8	4-1/4	4.295	4.24	2.045	1.99	0.213	0.153	187WUSS	187WUSSD
2	4-1/2	4.545	4.49	2.17	2.115	0.213	0.153	200WUSS	200WUSSD
2-1/4	4-3/4	4.795	4.74	2.42	2.365	0.248	0.193	225WUSS	225WUSSD
2-1/2	5	5.045	4.99	2.67	2.615	0.28	0.21	250WUSS	250WUSSD
2-3/4	5-1/4	5.315	5.24	2.94	2.865	0.31	0.228	275WUSS	275WUSSD
3	5-1/2	5.565	5.49	3.19	3.115	0.327	0.249	300WUSS	300WUSSD

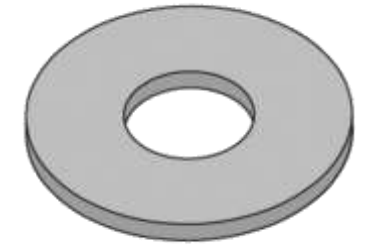
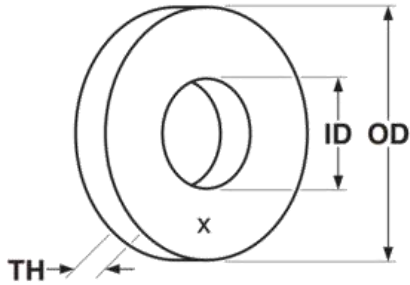
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### NOTES

1. USS Flat Washer Dimensions to ASME B18.21.1 and ASME B18.22.1 Type A Plain Washers, Wide
2. Material: Low Carbon Steel
3. Finish: Clear Zinc Fe/Zn 3AN per ASTM F1941

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: USS FLAT WASHER LOW CARBON STEEL ZINC						
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com	<table border="1"> <tr> <th>REV</th> <th>DATE</th> </tr> <tr> <td>C</td> <td>08/04/2022</td> </tr> </table>	REV	DATE	C	08/04/2022
	REV	DATE				
C	08/04/2022					



Nominal Bolt or Screw Size	OD			ID		TH		SPS Part Number	
	Outside Diameter			Inside Diameter		Thickness			
	Basic	Max	Min	Max	Min	Max	Min	Import	Domestic
3/16 (#10)	9/16	0.577	0.557	0.265	0.245	0.065	0.036	10WUSS03	10WUSS03D
1/4	3/4	0.749	0.727	0.327	0.307	0.08	0.051	25WUSS03	25WUSS03D
5/16	7/8	0.905	0.868	0.39	0.37	0.104	0.064	31WUSS03	31WUSS03D
3/8	1	1.03	0.993	0.453	0.433	0.104	0.064	SPS-1084	SPS-1084D
7/16	1-1/4	1.28	1.243	0.515	0.495	0.104	0.064	43WUSS03	43WUSS03D
1/2	1-3/8	1.405	1.368	0.577	0.557	0.132	0.086	SPS-1086	SPS-1086D
9/16	1-1/2	1.499	1.462	0.64	0.62	0.132	0.086	56WUSS03	56WUSS03D
5/8	1-3/4	1.78	1.743	0.718	0.681	0.16	0.108	SPS-1088	SPS-1088D
3/4	2	2.03	1.993	0.842	0.805	0.177	0.122	SPS-1089	SPS-1089D
7/8	2-1/4	2.28	2.243	0.968	0.931	0.192	0.136	87WUSS03	87WUSS03D
1	2-1/2	2.53	2.493	1.092	1.055	0.192	0.136	100WUSS03	100WUSS03D
1-1/8	2-3/4	2.78	2.743	1.28	1.243	0.192	0.136	112WUSS03	112WUSS03D
1-1/4	3	3.03	2.993	1.405	1.368	0.192	0.136	125WUSS03	125WUSS03D
1-3/8	3-1/4	3.295	3.24	1.545	1.49	0.213	0.153	137WUSS03	137WUSS03D
1-1/2	3-1/2	3.545	3.49	1.67	1.615	0.213	0.153	150WUSS03	150WUSS03D
1-5/8	3-3/4	3.795	3.74	1.795	1.74	0.213	0.153	162WUSS03	162WUSS03D
1-3/4	4	4.045	3.99	1.92	1.865	0.213	0.153	175WUSS03	175WUSS03D
1-7/8	4-1/4	4.295	4.24	2.045	1.99	0.213	0.153	187WUSS03	187WUSS03D
2	4-1/2	4.545	4.49	2.17	2.115	0.213	0.153	200WUSS03	200WUSS03D
2-1/4	4-3/4	4.795	4.74	2.42	2.365	0.248	0.193	225WUSS03	225WUSS03D
2-1/2	5	5.045	4.99	2.67	2.615	0.28	0.21	250WUSS03	250WUSS03D
2-3/4	5-1/4	5.315	5.24	2.94	2.865	0.31	0.228	275WUSS03	275WUSS03D
3	5-1/2	5.565	5.49	3.19	3.115	0.327	0.249	300WUSS03	300WUSS03D

### NOTES

1. USS Flat Washer Dimensions to ASME B18.21.1 and ASME B18.22.1 Type A Plain Washers, Wide
2. Material: Low Carbon Steel
3. Finish: Hot Dip Galvanized to ASTM F2329

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: USS FLAT WASHER LOW CARBON STEEL HDG



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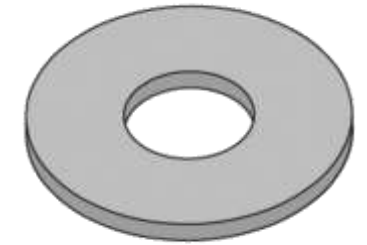
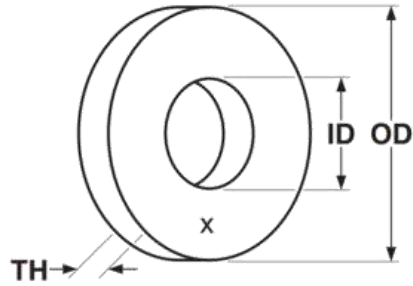
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For sizes not shown, please contact SPS Sales





Nominal Bolt or Screw Size	OD			ID		TH		SPS Part Number	
	Outside Diameter			Inside Diameter		Thickness			
	Basic	Max	Min	Max	Min	Max	Min	Import	Domestic
3/16 (#10)	9/16	0.577	0.557	0.265	0.245	0.065	0.036	10WUSS188	10WUSS188D
1/4	3/4	0.749	0.727	0.327	0.307	0.08	0.051	25WUSS188	25WUSS188D
5/16	7/8	0.905	0.868	0.39	0.37	0.104	0.064	31WUSS188	31WUSS188D
3/8	1	1.03	0.993	0.453	0.433	0.104	0.064	SPS-1084SS	SPS-1084SSD
7/16	1-1/4	1.28	1.243	0.515	0.495	0.104	0.064	43WUSS188	43WUSS188D
1/2	1-3/8	1.405	1.368	0.577	0.557	0.132	0.086	SPS-1086SS	SPS-1086SSD
9/16	1-1/2	1.499	1.462	0.64	0.62	0.132	0.086	56WUSS188	56WUSS188D
5/8	1-3/4	1.78	1.743	0.718	0.681	0.16	0.108	SPS-1088SS	SPS-1088SSD
3/4	2	2.03	1.993	0.842	0.805	0.177	0.122	SPS-1089SS	SPS-1089SSD
7/8	2-1/4	2.28	2.243	0.968	0.931	0.192	0.136	87WUSS188	87WUSS188D
1	2-1/2	2.53	2.493	1.092	1.055	0.192	0.136	100WUSS188	100WUSS188D
1-1/8	2-3/4	2.78	2.743	1.28	1.243	0.192	0.136	112WUSS188	112WUSS188D
1-1/4	3	3.03	2.993	1.405	1.368	0.192	0.136	125WUSS188	125WUSS188D
1-3/8	3-1/4	3.295	3.24	1.545	1.49	0.213	0.153	137WUSS188	137WUSS188D
1-1/2	3-1/2	3.545	3.49	1.67	1.615	0.213	0.153	150WUSS188	150WUSS188D
1-5/8	3-3/4	3.795	3.74	1.795	1.74	0.213	0.153	162WUSS188	162WUSS188D
1-3/4	4	4.045	3.99	1.92	1.865	0.213	0.153	175WUSS188	175WUSS188D
1-7/8	4-1/4	4.295	4.24	2.045	1.99	0.213	0.153	187WUSS188	187WUSS188D
2	4-1/2	4.545	4.49	2.17	2.115	0.213	0.153	200WUSS188	200WUSS188D
2-1/4	4-3/4	4.795	4.74	2.42	2.365	0.248	0.193	225WUSS188	225WUSS188D
2-1/2	5	5.045	4.99	2.67	2.615	0.28	0.21	250WUSS188	250WUSS188D
2-3/4	5-1/4	5.315	5.24	2.94	2.865	0.31	0.228	275WUSS188	275WUSS188D
3	5-1/2	5.565	5.49	3.19	3.115	0.327	0.249	300WUSS188	300WUSS188D

## NOTES

1. USS Flat Washer Dimensions to ASME B18.21.1 and ASME B18.22.1 Type A Plain Washers, Wide
2. Material: 18-8 Stainless Steel

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: USS FLAT WASHER 18-8 STAINLESS STEEL



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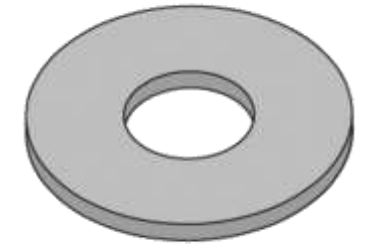
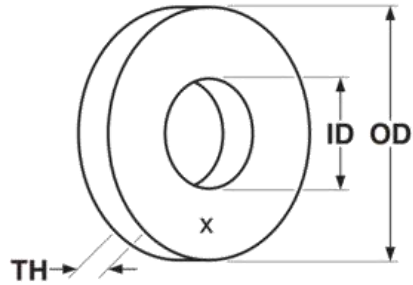
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For sizes not shown, please contact SPS Sales



Nominal Bolt or Screw Size	OD			ID		TH		SPS Part Number	
	Outside Diameter			Inside Diameter		Thickness			
	Basic	Max	Min	Max	Min	Max	Min	Import	Domestic
#2	1/4	0.25	0.245	0.094	0.089	0.025	0.016	02WSAE	02WSAED
#4	5/16	0.32	0.307	0.133	0.12	0.04	0.025	04WSAE	04WSAED
#6	3/8	0.39	0.37	0.164	0.151	0.065	0.036	06WSAE	06WSAED
#8	7/16	0.453	0.433	0.196	0.183	0.065	0.036	08WSAE	08WSAED
#10	1/2	0.515	0.495	0.227	0.214	0.065	0.036	10WSAE	10WSAED
#12	9/16	0.577	0.557	0.265	0.245	0.08	0.051	12WSAE	12WSAED
1/4	5/8	0.64	0.62	0.296	0.276	0.08	0.051	25WSAE	25WSAED
5/16	11/16	0.703	0.681	0.359	0.339	0.08	0.051	31WSAE	31WSAED
3/8	13/16	0.827	0.805	0.421	0.401	0.08	0.051	37WSAE	37WSAED
7/16	59/64	0.937	0.915	0.484	0.464	0.08	0.051	43WSAE	43WSAED
1/2	1-1/16	1.092	1.055	0.546	0.526	0.121	0.074	50WSAE	50WSAED
9/16	1-3/16	1.186	1.149	0.609	0.589	0.121	0.074	56WSAE	56WSAED
5/8	1-5/16	1.342	1.305	0.686	0.649	0.121	0.074	62WSAE	62WSAED
3/4	1-1/2	1.499	1.462	0.842	0.805	0.16	0.108	75WSAE	75WSAED
7/8	1-3/4	1.78	1.743	0.968	0.931	0.16	0.108	87WSAE	87WSAED
1	2	2.03	1.993	1.092	1.055	0.16	0.108	100WSAE	100WSAED
1-1/8	2-1/4	2.28	2.243	1.28	1.243	0.16	0.108	112WSAE	112WSAED
1-1/4	2-1/2	2.53	2.493	1.405	1.368	0.192	0.136	125WSAE	125WSAED
1-3/8	2-3/4	2.78	2.743	1.53	1.493	0.192	0.136	137WSAE	137WSAED
1-1/2	3	3.03	2.993	1.655	1.618	0.192	0.136	150WSAE	150WSAED

### NOTES

- SAE Flat Washer Dimensions to ASME B18.21.1 and ASME B18.22.1 Type A Plain Washers, Narrow
- Material: Low Carbon Steel
- Finish: Clear Zinc Fe/Zn 3AN per ASTM F1941

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: SAE FLAT WASHER LOW CARBON STEEL ZINC



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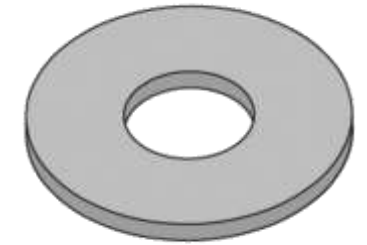
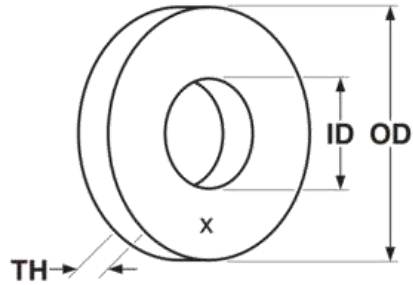
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For sizes not shown, please contact SPS Sales



Nominal Bolt or Screw Size	OD			ID		TH		SPS Part Number	
	Outside Diameter			Inside Diameter		Thickness			
	Basic	Max	Min	Max	Min	Max	Min	Import	Domestic
#2	1/4	0.25	0.245	0.094	0.089	0.025	0.016	02WSAE03	02WSAE03D
#4	5/16	0.32	0.307	0.133	0.12	0.04	0.025	04WSAE03	04WSAE03D
#6	3/8	0.39	0.37	0.164	0.151	0.065	0.036	06WSAE03	06WSAE03D
#8	7/16	0.453	0.433	0.196	0.183	0.065	0.036	08WSAE03	08WSAE03D
#10	1/2	0.515	0.495	0.227	0.214	0.065	0.036	10WSAE03	10WSAE03D
#12	9/16	0.577	0.557	0.265	0.245	0.08	0.051	12WSAE03	12WSAE03D
1/4	5/8	0.64	0.62	0.296	0.276	0.08	0.051	25WSAE03	25WSAE03D
5/16	11/16	0.703	0.681	0.359	0.339	0.08	0.051	31WSAE03	31WSAE03D
3/8	13/16	0.827	0.805	0.421	0.401	0.08	0.051	37WSAE03	37WSAE03D
7/16	59/64	0.937	0.915	0.484	0.464	0.08	0.051	43WSAE03	43WSAE03D
1/2	1-1/16	1.092	1.055	0.546	0.526	0.121	0.074	50WSAE03	50WSAE03D
9/16	1-3/16	1.186	1.149	0.609	0.589	0.121	0.074	56WSAE03	56WSAE03D
5/8	1-5/16	1.342	1.305	0.686	0.649	0.121	0.074	62WSAE03	62WSAE03D
3/4	1-1/2	1.499	1.462	0.842	0.805	0.16	0.108	75WSAE03	75WSAE03D
7/8	1-3/4	1.78	1.743	0.968	0.931	0.16	0.108	87WSAE03	87WSAE03D
1	2	2.03	1.993	1.092	1.055	0.16	0.108	100WSAE03	100WSAE03D
1-1/8	2-1/4	2.28	2.243	1.28	1.243	0.16	0.108	112WSAE03	112WSAE03D
1-1/4	2-1/2	2.53	2.493	1.405	1.368	0.192	0.136	125WSAE03	125WSAE03D
1-3/8	2-3/4	2.78	2.743	1.53	1.493	0.192	0.136	137WSAE03	137WSAE03D
1-1/2	3	3.03	2.993	1.655	1.618	0.192	0.136	150WSAE03	150WSAE03D

### NOTES

- SAE Flat Washer Dimensions to ASME B18.21.1 and ASME B18.22.1 Type A Plain Washers, Narrow
- Material: Low Carbon Steel
- Finish: Hot Dip Galvanized to ASTM F2329

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: SAE FLAT WASHER LOW CARBON STEEL HDG



10475 Crosspoint Blvd Ste 250  
Indianapolis, IN 46256  
(888) 211-7794  
Sales@spsutility.com  
www.spsutility.com

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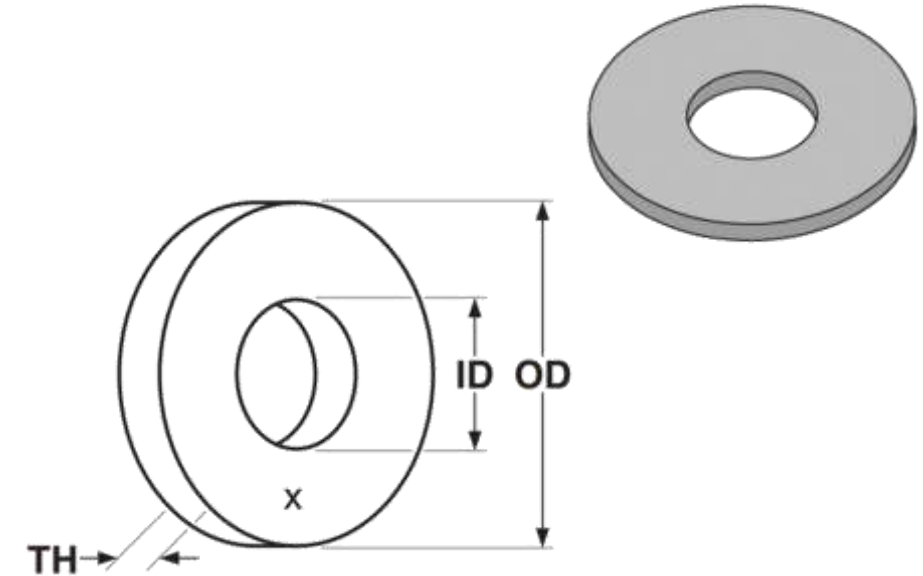
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For sizes not shown, please contact SPS Sales

Nominal Bolt or Screw Size	OD			ID		TH		SPS Part Number
	Outside Diameter			Inside Diameter		Thickness		
	Nominal	Max	Min	Max	Min	Max	Min	
#4	5/16	0.317	0.307	0.130	0.120	0.034	0.028	0405.03W188
#6	3/8	0.375	0.370	0.177	0.167	0.034	0.028	0606W188
#8	3/8	0.375	0.370	0.177	0.167	0.034	0.028	0806W188
#10	7/16	0.438	0.432	0.208	0.198	0.034	0.028	1007.03W188
1/4	5/8	0.625	0.620	0.286	0.276	0.054	0.046	2510W188
1/4	3/4	0.750	0.745	0.327	0.281	0.080	0.051	2512W188
5/16	5/8	0.630	0.620	0.348	0.338	0.080	0.051	3110W188
5/16	3/4	0.755	0.745	0.348	0.338	0.054	0.046	3112W188
5/16	7/8	0.880	0.870	0.348	0.338	0.080	0.051	3114W188
5/16	1	1.005	0.995	0.348	0.338	0.080	0.051	3116W188
3/8	3/4	0.755	0.745	0.416	0.396	0.080	0.051	3712W188
3/8	7/8	0.880	0.870	0.396	0.386	0.054	0.046	3714W188
3/8	1	1.005	0.995	0.396	0.386	0.066	0.058	3716W188
7/16	1-1/8	1.130	1.120	0.505	0.495	0.066	0.058	4318W188
1/2	1-1/4	1.255	1.245	0.567	0.557	0.066	0.058	5020W188
1/2	1-1/4	1.260	1.245	0.573	0.558	0.088	0.068	5020.078W188
5/8	1-1/2	1.505	1.495	0.693	0.683	0.084	0.074	6224W188
3/4	1-3/4	1.755	1.745	0.817	0.807	0.097	0.082	7528W188
7/8	2	2.005	1.995	0.943	0.933	0.117	0.102	8732W188
1	2	2.005	1.995	1.067	1.057	0.133	0.117	10032W188

For sizes not shown, please contact SPS Sales



### NOTES

1. Commercial Flat Washer
2. Material: 18-8 Stainless Steel

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: COMMERCIAL FLAT WASHERS 18-8 STAINLESS STEEL



10475 Crosspoint Blvd Ste 250  
Indianapolis, IN 46256  
(888) 211-7794  
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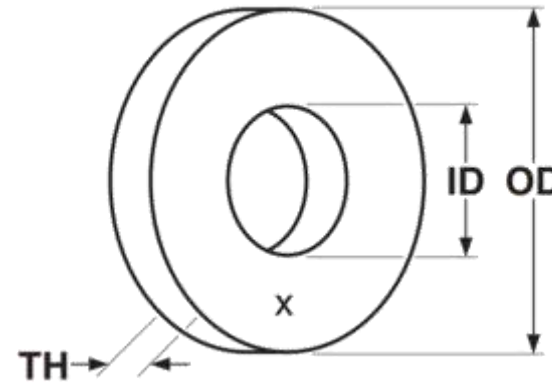
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10/03/2022



Size	Nominal Bolt or Screw Size	OD	ID	TH	SPS Part Number
		Outside Diameter	Inside Diameter	Thickness	
2S	#2	0.187	0.090	0.020	0203SWFSB
3	#3	0.281	0.109	0.025	03WFBSB
4	#4	0.281	0.119	0.025	04WFBSB
6S (1/8)	#6	0.312	0.147	0.028	0605SWFSB
6L (1/8)	#6	0.375	0.147	0.032	0606LWFSB
8S (5/32)	#8	0.375	0.172	0.032	0806SWFSB
8L (5/32)	#8	0.437	0.172	0.036	0807LWFSB
10S (3/16)	#10	0.437	0.200	0.036	1007SWFSB
10L (3/16)	#10	0.500	0.200	0.040	1008LWFSB
12S	#12	0.500	0.227	0.040	1208SWFSB
12L	#12	0.562	0.227	0.040	1209LWFSB
14S (1/4)	#14 OR 1/4	0.562	0.260	0.040	2509SWFSB
14L (1/4)	#14 OR 1/4	0.687	0.260	0.051	2511LWFSB
16S	#16	0.625	0.282	0.040	1610SWFSB
16L	#16	0.750	0.282	0.064	1612LWFSB
18S	#18	0.687	0.310	0.051	1811SWFSB
18L	#18	0.875	0.310	0.064	1814LWFSB
20S (5/16)	5/16	0.750	0.337	0.064	3112SWFSB
20L (5/16)	5/16	0.875	0.337	0.064	3114LWFSB
24S (3/8)	3/8	0.875	0.391	0.064	3714SWFSB
24L (3/8)	3/8	1.000	0.391	0.081	3716LWFSB
7/16	7/16	1.125	0.500	0.081	4318WFBSB
1/2 S	1/2	1.250	0.562	0.091	5020SWFSB
1/2 L	1/2	1.375	0.562	0.091	5022LWFSB
5/8 S	5/8	1.500	0.687	0.102	6224SWFSB
5/8 S	5/8	1.500	0.687	0.125	6224X.125SWFSB
5/8 L	5/8	1.750	0.687	0.102	6228LWFSB
3/4 S	3/4	1.875	0.812	0.114	7530SWFSB
3/4 R	3/4	1.875	0.812	0.125	7530RWFSB
3/4 L	3/4	2.000	0.812	0.125	7532LWFSB
7/8	7/8	2.250	0.937	0.125	8736WFBSB
1	1	2.500	1.062	0.125	10040WFBSB
1-1/8	1-1/8	2.750	1.187	0.125	11244WFBSB
1-1/4	1-1/4	3.000	1.312	0.125	12548WFBSB
1-1/2	1-1/2	3.500	1.562	0.140	15056WFBSB



### NOTES

1. Nominal Dimensions per Table
2. Material: 651, 655, OR 656 Silicon Bronze (UNS C65100, C65500 or C65600)

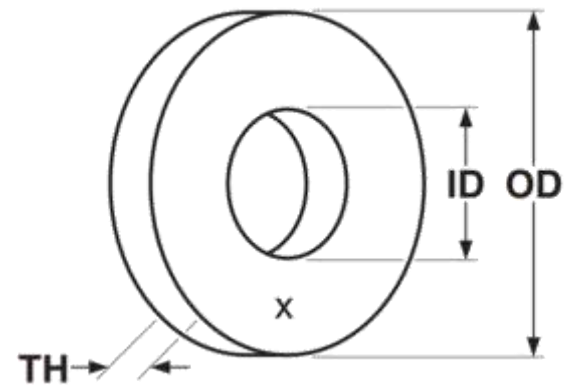
Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: FLAT WASHER SILICON BRONZE						
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com	<table border="1"> <tr> <th>REV</th> <th>DATE</th> </tr> <tr> <td>A</td> <td>07/01/2022</td> </tr> </table>	REV	DATE	A	07/01/2022
	REV	DATE				
A	07/01/2022					

For sizes not shown, please contact SPS Sales

Size	Nominal Bolt or Screw Size	OD	ID	TH	SPS Part Number
		Outside Diameter	Inside Diameter	Thickness	
2S	#2	0.187	0.090	0.020	0203SWFBR
3	#3	0.281	0.109	0.025	03WFBR
4	#4	0.281	0.119	0.025	04WFBR
6S (1/8)	#6	0.312	0.147	0.028	0605SWFBR
6L (1/8)	#6	0.375	0.147	0.032	0606LWFBR
8S (5/32)	#8	0.375	0.172	0.032	0806SWFBR
8L (5/32)	#8	0.437	0.172	0.036	0807LWFBR
10S (3/16)	#10	0.437	0.200	0.036	1007SWFBR
10L (3/16)	#10	0.500	0.200	0.040	1008LWFBR
12S	#12	0.500	0.227	0.040	1208SWFBR
12L	#12	0.562	0.227	0.040	1209LWFBR
14S (1/4)	#14 OR 1/4	0.562	0.260	0.040	2509SWFBR
14L (1/4)	#14 OR 1/4	0.687	0.260	0.051	2511LWFBR
16S	#16	0.625	0.282	0.040	1610SWFBR
16L	#16	0.750	0.282	0.064	1612LWFBR
18S	#18	0.687	0.310	0.051	1811SWFBR
18L	#18	0.875	0.310	0.064	1814LWFBR
20S (5/16)	5/16	0.750	0.337	0.064	3112SWFBR
20L (5/16)	5/16	0.875	0.337	0.064	3114LWFBR
24S (3/8)	3/8	0.875	0.391	0.064	3714SWFBR
24L (3/8)	3/8	1.000	0.391	0.081	3716LWFBR
7/16	7/16	1.125	0.500	0.081	4318WFBR
1/2 S	1/2	1.250	0.562	0.091	5020SWFBR
1/2 L	1/2	1.375	0.562	0.091	5022LWFBR
5/8 S	5/8	1.500	0.687	0.102	6224SWFBR
5/8 S	5/8	1.500	0.687	0.125	6224X.125SWFBR
5/8 L	5/8	1.750	0.687	0.102	6228LWFBR
3/4 S	3/4	1.875	0.812	0.114	7530SWFBR
3/4 R	3/4	1.875	0.812	0.125	7530RWFBR
3/4 L	3/4	2.000	0.812	0.125	7532LWFBR
7/8	7/8	2.250	0.937	0.125	8736WFBR
1	1	2.500	1.062	0.125	10040WFBR
1-1/8	1-1/8	2.750	1.187	0.125	11244WFBR
1-1/4	1-1/4	3.000	1.312	0.125	12548WFBR
1-1/2	1-1/2	3.500	1.562	0.140	15056WFBR

For sizes not shown, please contact SPS Sales

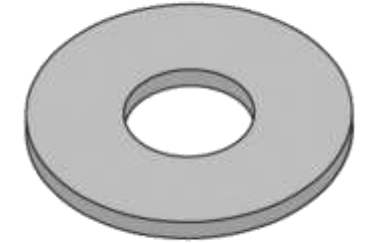
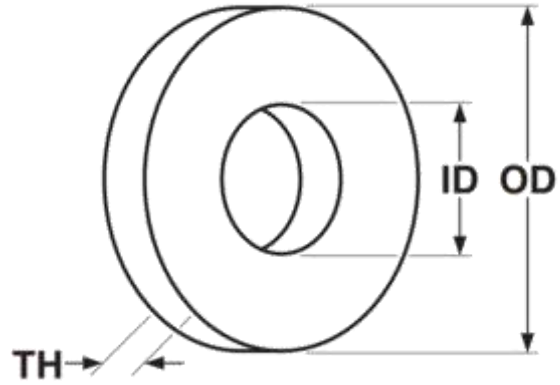


### NOTES

1. Nominal Dimensions per Table
2. Material: Brass

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: FLAT WASHER BRASS			
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com	REV	DATE
		A	07/01/2022



Nominal Bolt or Screw Size	OD			ID		TH		SPS Part Number
	Outside Diameter			Inside Diameter		Thickness		
	Nominal	Max	Min	Max	Min	Max	Min	
#6	3/8	0.390	0.370	0.157	0.144	0.038	0.024	06WAL
#8	3/8	0.390	0.370	0.182	0.169	0.038	0.024	08WAL
#10	7/16	0.452	0.432	0.215	0.198	0.038	0.024	10WAL
1/4	11/16	0.702	0.680	0.280	0.260	0.055	0.035	25WAL
5/16	3/4	0.765	0.743	0.358	0.338	0.072	0.052	31WAL
3/8	7/8	0.890	0.868	0.421	0.401	0.072	0.052	37WAL
1/2	1-1/4	1.280	1.243	0.577	0.557	0.088	0.068	50WAL
5/8	1-1/2	1.530	1.493	0.717	0.684	0.088	0.068	62WAL
3/4	1-7/8	1.905	1.868	0.842	0.809	0.101	0.081	75WAL
7/8	2-1/4	2.298	2.225	0.968	0.935	0.101	0.081	87WAL
1	2-1/2	2.505	2.495	1.067	1.057	0.101	0.081	100WAL

For sizes not shown, please contact SPS Sales

## NOTES

1. Aluminum Flat Washer
2. Material: Aluminum Alloy 2024-T4

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: FLAT WASHER, ALUMINUM



10475 Crosspoint Blvd Ste 250  
Indianapolis, IN 46256  
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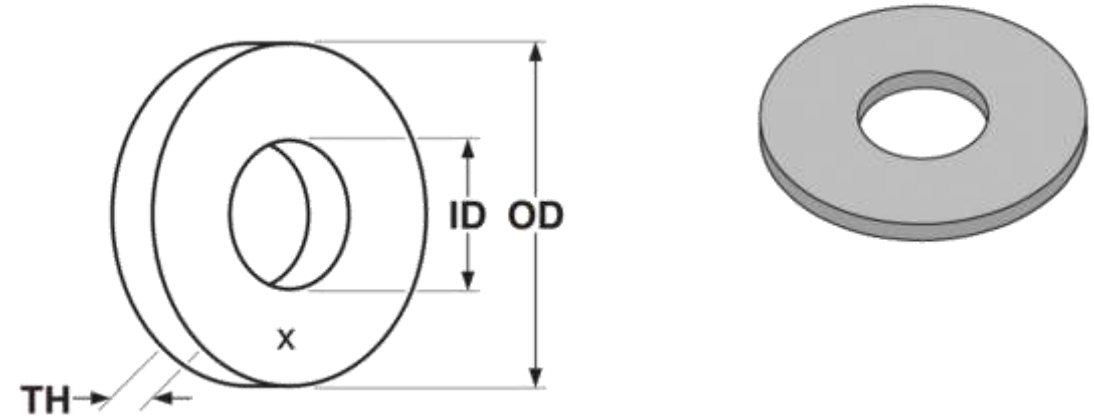
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Nominal Bolt or Screw Size	OD			ID		TH		SPS Part Number	
	Outside Diameter			Inside Diameter		Thickness		Hot Dip Galvanized	
	Basic	Max	Min	Max	Min	Max	Min	Import	Domestic
1/4	5/8	0.657	0.593	0.313	0.281	0.080	0.051	25WF43603	25WF43603D
5/16	11/16	0.720	0.656	0.376	0.344	0.080	0.051	31WF43603	31WF43603D
3/8	13/16	0.845	0.781	0.438	0.406	0.080	0.051	37WF43603	37WF43603D
7/16	59/64	0.954	0.890	0.501	0.469	0.080	0.051	43WF43603	43WF43603D
1/2*	1-1/16	1.095	1.031	0.563	0.531	0.177	0.097	50WF43603	50WF43603D
9/16	1-3/16	1.220	1.156	0.657	0.625	0.177	0.110	56WF43603	56WF43603D
5/8*	1-5/16	1.345	1.281	0.720	0.688	0.177	0.122	62WF43603	62WF43603D
3/4*	1-15/32	1.500	1.436	0.845	0.813	0.177	0.122	75WF43603	75WF43603D
7/8*	1-3/4	1.782	1.718	0.970	0.938	0.177	0.136	87WF43603	87WF43603D
1*	2	2.063	1.937	1.126	1.063	0.177	0.136	100WF43603	100WF43603D
1-1/8*	2-1/4	2.313	2.187	1.251	1.188	0.177	0.136	112WF43603	112WF43603D
1-1/4*	2-1/2	2.563	2.437	1.438	1.375	0.177	0.136	125WF43603	125WF43603D
1-3/8*	2-3/4	2.813	2.687	1.563	1.500	0.177	0.136	137WF43603	137WF43603D
1-1/2*	3	3.063	2.937	1.688	1.625	0.177	0.136	150WF43603	150WF43603D
1-5/8	3-1/4	3.313	3.187	1.813	1.750	0.280	0.178	162WF43603	162WF43603D
1-3/4	3-3/8	3.438	3.312	1.938	1.875	0.280	0.178	175WF43603	175WF43603D
1-7/8	3-1/2	3.531	3.405	2.000	1.937	0.280	0.178	187WF43603	187WF43603D
2	3-3/4	3.813	3.687	2.188	2.125	0.280	0.178	200WF43603	200WF43603D
2-1/4	4	4.063	3.937	2.438	2.375	0.340	0.240	225WF43603	225WF43603D
2-1/2	4-1/2	4.563	4.437	2.688	2.625	0.340	0.240	250WF43603	250WF43603D
2-3/4	5	5.063	4.937	2.938	2.875	0.340	0.240	275WF43603	275WF43603D
3	5-1/2	5.563	5.437	3.188	3.125	0.340	0.240	300WF43603	300WF43603D
3-1/4	6	6.125	5.875	3.500	3.375	0.340	0.240	325WF43603	325WF43603D
3-1/2	6-1/2	6.625	6.375	3.750	3.625	0.340	0.240	350WF43603	350WF43603D
3-3/4	7	7.125	6.875	4.000	3.875	0.340	0.240	375WF43603	375WF43603D
4	7-1/2	7.625	7.375	4.250	4.125	0.340	0.240	400WF43603	400WF43603D



#### NOTES

1. Hardened Steel Circular Washer per ASTM F436 Type 1
2. Finish: Hot Dip Galvanized to ASTM F2329
3. Marked with the manufacturer's symbol or identification mark
  - Some lots may also be marked "F436" but not required by the standard
4. Dimensions to ASME B18.22.1. Diameters marked with \* are also included in ASME B18.2.6

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: HARDENED STEEL FLAT WASHER F436 GALVANIZED



10475 Crosspoint Blvd Ste 250  
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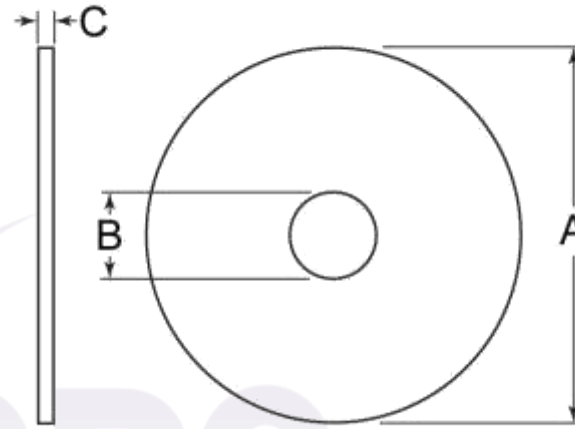
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B	A	C	SPS Part Number
Bolt or Screw Size	Outside Diameter	Thickness	
Nominal	Nominal	Nominal	
#6	1/2	0.032	0608.03WF188
#6	5/8	0.031	0610.03WF188
#6	5/8	0.062	0610.06WF188
#6	3/4	0.032	0612.03WF188
#6	3/4	0.05	0612.05WF188
#6	3/4	0.062	0612.06WF188
#8	3/4	0.032	0812.03WF188
#8	3/4	0.04	0812.04WF188
#8	3/4	0.05	0812.05WF188
#8	3/4	0.062	0812.06WF188
#8	7/8	0.05	0814.05WF188
#8	7/8	0.062	0814.06WF188
#10	1/2	0.04	1008.04WF188
#10	5/8	0.04	1010.04WF188
#10	11/16	0.04	1011.04WF188
#10	11/16	0.05	1011.05WF188
#10	3/4	0.04	1012.04WF188
#10	3/4	0.05	1012.05WF188
#10	3/4	0.062	1012.06WF188
#10	7/8	0.062	1014.06WF188
#10	1	0.04	1016.04WF188
#10	1	0.05	1016.05WF188
#10	1	0.062	1016.06WF188
#10	1-1/4	0.05	1020.05WF188
#10	1-1/4	0.062	1020.06WF188
#10	1-1/2	0.05	1024.05WF188
1/4	1	0.05	2516.05WF188
1/4	1	0.062	2516.06WF188
1/4	1-1/4	0.05	2520.05WF188
1/4	1-1/4	0.062	2520.06WF188
1/4	1-1/2	0.05	2524.05WF188
1/4	1-1/2	0.062	2524.06WF188
1/4	1-3/4	0.062	2528.06WF188
1/4	2	0.05	2532.05WF188
1/4	2	0.062	2532.06WF188

B	A	C	SPS Part Number
Bolt or Screw Size	Outside Diameter	Thickness	
Nominal	Nominal	Nominal	
5/16	7/8	0.062	3114.06WF188
5/16	1	0.05	3116.05WF188
5/16	1	0.062	3116.06WF188
5/16	1-1/4	0.05	3120.05WF188
5/16	1-1/4	0.062	3120.06WF188
5/16	1-1/2	0.05	3124.05WF188
5/16	1-1/2	0.062	3124.06WF188
5/16	1-1/2	0.078	3124.07WF188
5/16	1-1/2	0.125	3124.125WF188
5/16	1-5/8	0.062	3126.06WF188
5/16	1-3/4	0.062	3128.06WF188
5/16	2	0.062	3132.06WF188
5/16	2	0.125	3132.125WF188
5/16	2-1/4	0.062	3136.06WF188
3/8	1-5/32	0.062	37185.06WF188
3/8	1-1/4	0.05	3720.05WF188
3/8	1-1/4	0.062	3720.06WF188
3/8	1-1/2	0.05	3724.05WF188
3/8	1-1/2	0.062	3724.06WF188
3/8	1-1/2	0.078	3724.07WF188
3/8	1-5/8	0.062	3726.06WF188
3/8	1-3/4	0.062	3728.06WF188
3/8	2	0.062	3732.06WF188
3/8	2	0.125	3732.125WF188
1/2	1-1/4	0.062	5020.06WF188
1/2	1-7/16	0.15	5023.15WF188
1/2	1-1/2	0.062	5024.06WF188
1/2	1-1/2	0.187	5024.187WF188
1/2	1-3/4	0.062	5028.06WF188
1/2	2	0.062	5032.06WF188
1/2	2	0.109	5032.109WF188
1/2	2-1/2	0.062	5040.06WF188
1/2	3	0.125	5048.125WF188
5/8	2	0.062	6232.06WF188
5/8	2	0.078	6232.07WF188
5/8	2	0.109	6232.109WF188
3/4	2	0.078	7532.07WF188



### NOTES

1. Fender Washer per ASME B18.21.1
2. Material: 18-8 Stainless Steel

For sizes not shown, please contact SPS Sales  
Dimensions in inches unless otherwise noted

All references to standards are the latest revision unless a specific revision is identified.

TITLE: FENDER WASHERS 18-8 STAINLESS STEEL



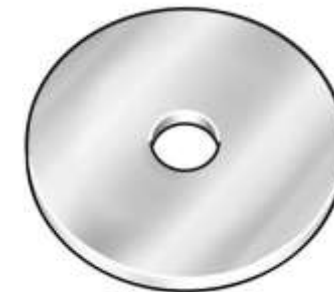
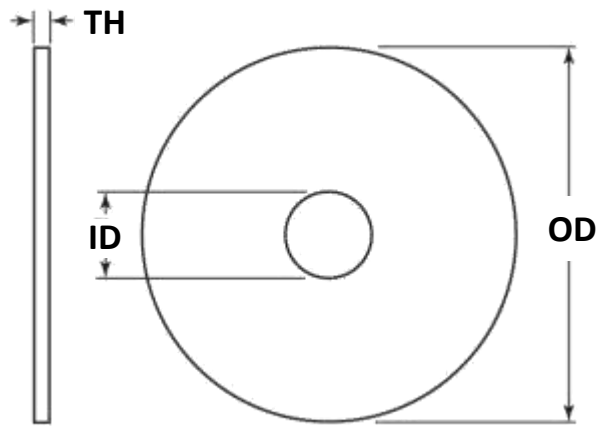
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Indianapolis, IN 46256  
(888) 211-7794  
Sales@spsutility.com  
www.spsutility.com

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01/23/2023



## NOTES

1. Round Flat Plate Washer
2. Material: Steel per ANSI/NEMA C135.10 and IEEE C135.80
3. Finish: Hot Dip Galvanized to ASTM A153
4. USA Manufactured: Add "D" to end of SPS Part Number

Nominal Bolt Size	ID	OD	TH	SPS Part Number
	Hole Size	Width	Thickness	
1	1-1/16	6	1/4	10096.25WFO3

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: ROUND FLAT PLATE WASHER HDG



10475 Crosspoint Blvd Ste 250  
Indianapolis, IN 46256  
(888) 211-7794  
Sales@spsutility.com  
www.spsutility.com

REV

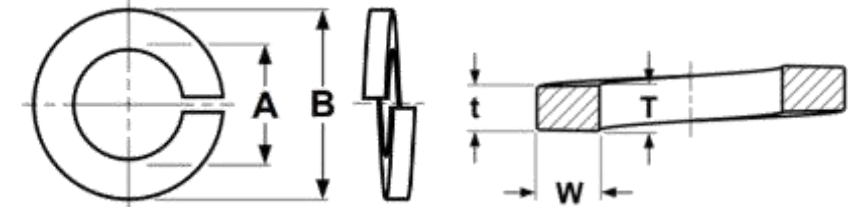
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A

09/19/2022

For sizes not shown, please contact SPS Sales

Nominal Bolt Diameter	A Inside Diameter		B Outside Diameter	(T+t) 2 Mean Section Thickness	W Section Width	SPS Part Number	
	Max	Min	Max	Min	Min	Steel Zinc	
						Import	Domestic
#2	0.094	0.088	0.172	0.020	0.035	02WS	02WSD
#3	0.107	0.101	0.195	0.025	0.040	03WS	03WSD
#4	0.120	0.114	0.209	0.025	0.040	04WS	04WSD
#5	0.133	0.127	0.236	0.031	0.047	05WS	05WSD
#6	0.148	0.141	0.250	0.031	0.047	06WS	06WSD
#8	0.174	0.167	0.293	0.040	0.055	08WS	08WSD
#10	0.200	0.193	0.334	0.047	0.062	10WS	10WSD
#12	0.227	0.220	0.377	0.056	0.070	12WS	12WSD
1/4	0.260	0.252	0.487	0.062	0.109	25WS	25WSD
5/16	0.322	0.314	0.583	0.078	0.125	31WS	31WSD
3/8	0.385	0.377	0.680	0.094	0.141	SPS-134Z	SPS-134ZD
7/16	0.450	0.440	0.776	0.109	0.156	43WS	43WSD
1/2	0.512	0.502	0.869	0.125	0.171	SPS-138Z	SPS-138ZD
9/16	0.574	0.564	0.965	0.141	0.188	56WS	56WSD
5/8	0.641	0.628	1.073	0.156	0.203	SPS-139Z	SPS-139ZD
3/4	0.766	0.753	1.265	0.188	0.234	SPS-140Z	SPS-140ZD
7/8	0.894	0.878	1.459	0.219	0.266	87WS	87WSD
1	1.024	1.003	1.656	0.250	0.297	100WS	100WSD
1-1/8	1.153	1.129	1.847	0.281	0.328	112WS	112WSD
1-1/4	1.280	1.254	2.036	0.312	0.359	125WS	125WSD
1-3/8	1.408	1.378	2.219	0.344	0.391	137WS	137WSD
1-1/2	1.534	1.504	2.419	0.375	0.422	150WS	150WSD
1-5/8	1.663	1.633	2.553	0.389	0.424	162WS	162WSD
1-3/4	1.789	1.758	2.679	0.389	0.424	175WS	175WSD
1-7/8	1.914	1.883	2.811	0.422	0.427	187WS	187WSD
2	2.039	2.008	2.936	0.422	0.427	200WS	200WSD
2-1/4	2.293	2.262	3.221	0.440	0.442	225WS	225WSD
2-1/2	2.543	2.512	3.471	0.440	0.442	250WS	250WSD
2-3/4	2.793	2.762	3.824	0.458	0.491	275WS	275WSD
3	3.043	3.012	4.074	0.458	0.491	300WS	300WSD



### NOTES

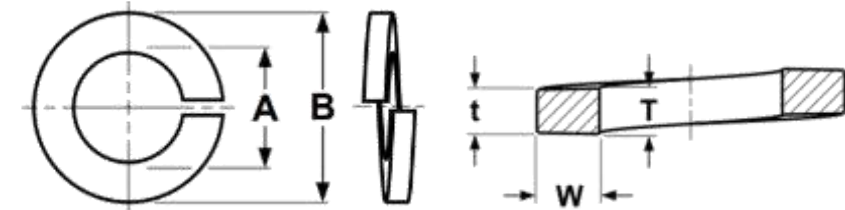
1. Regular Helical Spring-Lock Washer per ASME B18.21.1
2. Material: Carbon Steel per SAE J403 1055-1065 (UNS G10550-G10650)
3. Finish: Clear Zinc to ASTM F1941

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: REGULAR SPLIT LOCK WASHER STEEL ZINC			
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com	REV	DATE
		B	07/14/2022

For sizes not shown, please contact SPS Sales

Nominal Bolt Diameter	A Inside Diameter		B Outside Diameter		(T+t) 2 Mean Section Thickness	W Section Width	SPS Part Number	
	Max	Min	Max	Min			Min	Steel HDG
					Import	Domestic		
#2	0.094	0.088	0.172	0.020	0.035	02WS03	02WS03D	
#3	0.107	0.101	0.195	0.025	0.040	03WS03	03WS03D	
#4	0.120	0.114	0.209	0.025	0.040	04WS03	04WS03D	
#5	0.133	0.127	0.236	0.031	0.047	05WS03	05WS03D	
#6	0.148	0.141	0.250	0.031	0.047	06WS03	06WS03D	
#8	0.174	0.167	0.293	0.040	0.055	08WS03	08WS03D	
#10	0.200	0.193	0.334	0.047	0.062	10WS03	10WS03D	
#12	0.227	0.220	0.377	0.056	0.070	12WS03	12WS03D	
1/4	0.260	0.252	0.487	0.062	0.109	25WS03	25WS03D	
5/16	0.322	0.314	0.583	0.078	0.125	31WS03	31WS03D	
3/8	0.385	0.377	0.680	0.094	0.141	SPS-134	SPS-134D	
7/16	0.450	0.440	0.776	0.109	0.156	43WS03	43WS03D	
1/2	0.512	0.502	0.869	0.125	0.171	SPS-138	SPS-138D	
9/16	0.574	0.564	0.965	0.141	0.188	56WS03	56WS03D	
5/8	0.641	0.628	1.073	0.156	0.203	SPS-139	SPS-139D	
3/4	0.766	0.753	1.265	0.188	0.234	SPS-140	SPS-140D	
7/8	0.894	0.878	1.459	0.219	0.266	87WS03	87WS03D	
1	1.024	1.003	1.656	0.250	0.297	100WS03	100WS03D	
1-1/8	1.153	1.129	1.847	0.281	0.328	112WS03	112WS03D	
1-1/4	1.280	1.254	2.036	0.312	0.359	125WS03	125WS03D	
1-3/8	1.408	1.378	2.219	0.344	0.391	137WS03	137WS03D	
1-1/2	1.534	1.504	2.419	0.375	0.422	150WS03	150WS03D	
1-5/8	1.663	1.633	2.553	0.389	0.424	162WS03	162WS03D	
1-3/4	1.789	1.758	2.679	0.389	0.424	175WS03	175WS03D	
1-7/8	1.914	1.883	2.811	0.422	0.427	187WS03	187WS03D	
2	2.039	2.008	2.936	0.422	0.427	200WS03	200WS03D	
2-1/4	2.293	2.262	3.221	0.440	0.442	225WS03	225WS03D	
2-1/2	2.543	2.512	3.471	0.440	0.442	250WS03	250WS03D	
2-3/4	2.793	2.762	3.824	0.458	0.491	275WS03	275WS03D	
3	3.043	3.012	4.074	0.458	0.491	300WS03	300WS03D	



NOTES

1. Regular Helical Spring-Lock Washer per ASME B18.21.1
2. Material: Carbon Steel per SAE J403 1055-1065 (UNS G10550-G10650)
3. Finish: Hot Dip Galvanized to ASTM F2329 or ASTM A153

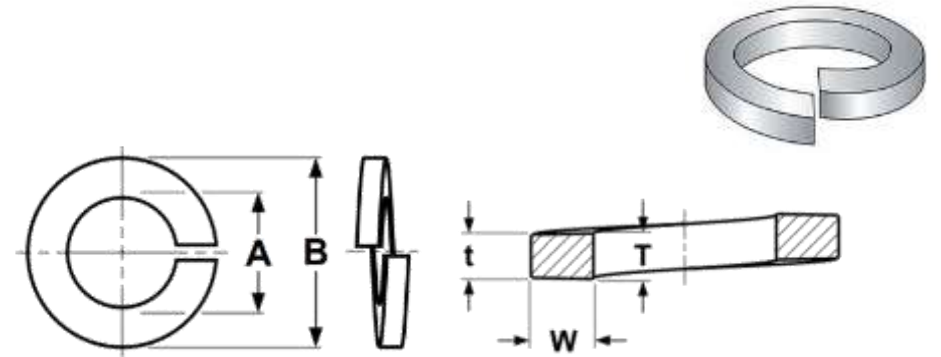
Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: REGULAR SPLIT LOCK WASHER STEEL HDG						
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com	<table border="1"> <tr> <th>REV</th> <th>DATE</th> </tr> <tr> <td>B</td> <td>07/14/2022</td> </tr> </table>	REV	DATE	B	07/14/2022
	REV	DATE				
B	07/14/2022					

For sizes not shown, please contact SPS Sales

Nominal Bolt Diameter	A Inside Diameter		B Outside Diameter	(T+t) 2 Mean Section Thickness	W Section Width	SPS Part Number			
						18-8 Stainless Steel		316 Stainless Steel	
	Max	Min	Max	Min	Min	Import	Domestic	Import	Domestic
#2	0.094	0.088	0.172	0.020	0.035	O2WS188	O2WS188D	O2WS316	O2WS316D
#3	0.107	0.101	0.195	0.025	0.040	O3WS188	O3WS188D	O3WS316	O3WS316D
#4	0.120	0.114	0.209	0.025	0.040	O4WS188	O4WS188D	O4WS316	O4WS316D
#5	0.133	0.127	0.236	0.031	0.047	O5WS188	O5WS188D	O5WS316	O5WS316D
#6	0.148	0.141	0.250	0.031	0.047	O6WS188	O6WS188D	O6WS316	O6WS316D
#8	0.174	0.167	0.293	0.040	0.055	O8WS188	O8WS188D	O8WS316	O8WS316D
#10	0.200	0.193	0.334	0.047	0.062	10WS188	10WS188D	10WS316	10WS316D
#12	0.227	0.220	0.377	0.056	0.070	12WS188	12WS188D	12WS316	12WS316D
1/4	0.260	0.252	0.487	0.062	0.109	25WS188	25WS188D	25WS316	25WS316D
5/16	0.322	0.314	0.583	0.078	0.125	31WS188	31WS188D	31WS316	31WS316D
3/8	0.385	0.377	0.680	0.094	0.141	SPS-134SS	SPS-134SSD	SPS-134-316	SPS-134-316D
7/16	0.450	0.440	0.776	0.109	0.156	43WS188	43WS188D	43WS316	43WS316D
1/2	0.512	0.502	0.869	0.125	0.171	SPS-138SS	SPS-138SSD	SPS-138-316	SPS-138-316D
9/16	0.574	0.564	0.965	0.141	0.188	56WS188	56WS188D	56WS316	56WS316D
5/8	0.641	0.628	1.073	0.156	0.203	SPS-139SS	SPS-139SSD	SPS-139-316	SPS-139-316D
3/4	0.766	0.753	1.265	0.188	0.234	SPS-140SS	SPS-140SSD	SPS-140-316	SPS-140-316D
7/8	0.894	0.878	1.459	0.219	0.266	87WS188	87WS188D	87WS316	87WS316D
1	1.024	1.003	1.656	0.250	0.297	100WS188	100WS188D	100WS316	100WS316D
1-1/8	1.153	1.129	1.847	0.281	0.328	112WS188	112WS188D	112WS316	112WS316D
1-1/4	1.280	1.254	2.036	0.312	0.359	125WS188	125WS188D	125WS316	125WS316D
1-3/8	1.408	1.378	2.219	0.344	0.391	137WS188	137WS188D	137WS316	137WS316D
1-1/2	1.534	1.504	2.419	0.375	0.422	150WS188	150WS188D	150WS316	150WS316D
1-5/8	1.663	1.633	2.553	0.389	0.424	162WS188	162WS188D	162WS316	162WS316D
1-3/4	1.789	1.758	2.679	0.389	0.424	175WS188	175WS188D	175WS316	175WS316D
1-7/8	1.914	1.883	2.811	0.422	0.427	187WS188	187WS188D	187WS316	187WS316D
2	2.039	2.008	2.936	0.422	0.427	200WS188	200WS188D	200WS316	200WS316D
2-1/4	2.293	2.262	3.221	0.440	0.442	225WS188	225WS188D	225WS316	225WS316D
2-1/2	2.543	2.512	3.471	0.440	0.442	250WS188	250WS188D	250WS316	250WS316D
2-3/4	2.793	2.762	3.824	0.458	0.491	275WS188	275WS188D	275WS316	275WS316D
3	3.043	3.012	4.074	0.458	0.491	300WS188	300WS188D	300WS316	300WS316D

For sizes not shown, please contact SPS Sales



## NOTES

- Regular Helical Spring-Lock Washer per ASME B18.21.1
- Material available (see PN Column):
  - 18-8 Stainless Steel: SAE J405 302-305 (UNS S30200-S30500)
  - 316 Stainless Steel: SAE J405 316 (UNS S31600)

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: REGULAR SPLIT LOCK WASHER STAINLESS STEEL



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Indianapolis, IN 46256  
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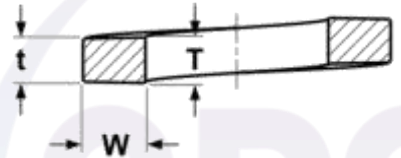
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05/01/2022



Nominal Bolt Diameter	A Inside Diameter		B Outside Diameter	(T+t) / 2 Mean Section Thickness	W Section Width	SPS Part Number
	Max	Min	Max	Min	Min	
#2	0.094	0.088	0.172	0.020	0.035	02WSSB
#3	0.107	0.101	0.195	0.025	0.040	03WSSB
#4	0.120	0.114	0.209	0.025	0.040	04WSSB
#5	0.133	0.127	0.236	0.031	0.047	05WSSB
#6	0.148	0.141	0.250	0.031	0.047	06WSSB
#8	0.174	0.167	0.293	0.040	0.055	08WSSB
#10	0.200	0.193	0.334	0.047	0.062	10WSSB
#12	0.227	0.220	0.377	0.056	0.070	12WSSB
1/4	0.260	0.252	0.487	0.062	0.109	25WSSB
5/16	0.322	0.314	0.583	0.078	0.125	31WSSB
3/8	0.385	0.377	0.680	0.094	0.141	SPS-134SB
7/16	0.450	0.440	0.776	0.109	0.156	43WSSB
1/2	0.512	0.502	0.869	0.125	0.171	SPS-138SB
9/16	0.574	0.564	0.965	0.141	0.188	56WSSB
5/8	0.641	0.628	1.073	0.156	0.203	SPS-139SB
3/4	0.766	0.753	1.265	0.188	0.234	SPS-140SB
7/8	0.894	0.878	1.459	0.219	0.266	87WSSB
1	1.024	1.003	1.656	0.250	0.297	100WSSB
1-1/8	1.153	1.129	1.847	0.281	0.328	112WSSB
1-1/4	1.280	1.254	2.036	0.312	0.359	125WSSB
1-3/8	1.408	1.378	2.219	0.344	0.391	137WSSB
1-1/2	1.534	1.504	2.419	0.375	0.422	150WSSB
1-5/8	1.663	1.633	2.553	0.389	0.424	162WSSB
1-3/4	1.789	1.758	2.679	0.389	0.424	175WSSB
1-7/8	1.914	1.883	2.811	0.422	0.427	187WSSB
2	2.039	2.008	2.936	0.422	0.427	200WSSB
2-1/4	2.293	2.262	3.221	0.440	0.442	225WSSB
2-1/2	2.543	2.512	3.471	0.440	0.442	250WSSB
2-3/4	2.793	2.762	3.824	0.458	0.491	275WSSB
3	3.043	3.012	4.074	0.458	0.491	300WSSB



### NOTES

1. Regular Helical Spring-Lock Washer per ASME B18.21.1
2. Material: 651 or 655 Silicon Bronze Alloy (UNS C65100 or C65500)

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: REGULAR SPLIT LOCK WASHER SILICON BRONZE



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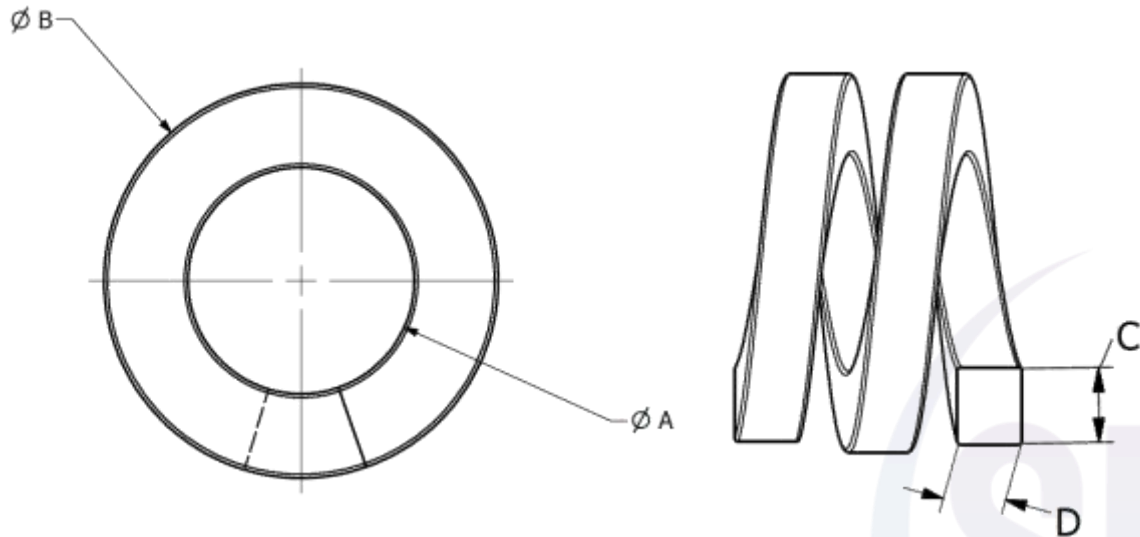
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For sizes not shown, please contact SPS Sales



### NOTES

1. Coils on washers are made as wide as possible without being able to interlock.
2. Material: Steel with hardness requirements to ASTM B18.21.1
3. Finish: Mechanically Galvanized per ASTM B695 or Hot Dip Galvanized per ASTM A153

Nominal Washer Size	A	B	C	D	SPS Part Number
	Inside Diameter	Outside Diameter	Section Width	Section Thickness	
3/8	0.402-0.413	0.664-0.683	0.141	0.094	SPS-175
1/2	0.529-0.549	0.871-0.899	0.171	0.125	SPS-176
5/8	0.656-0.680	1.059-1.106	0.203	0.156	SPS-177
3/4	0.788-0.803	1.231-1.271	0.234	0.188	SPS-178
7/8	0.920-0.932	1.506-1.548	0.250	0.297	SPS-179
1	1.010-1.040	1.928 Max	0.437	0.250	SPS-180

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: DOUBLE COIL LOCK WASHER REGULAR DUTY GALVANIZED



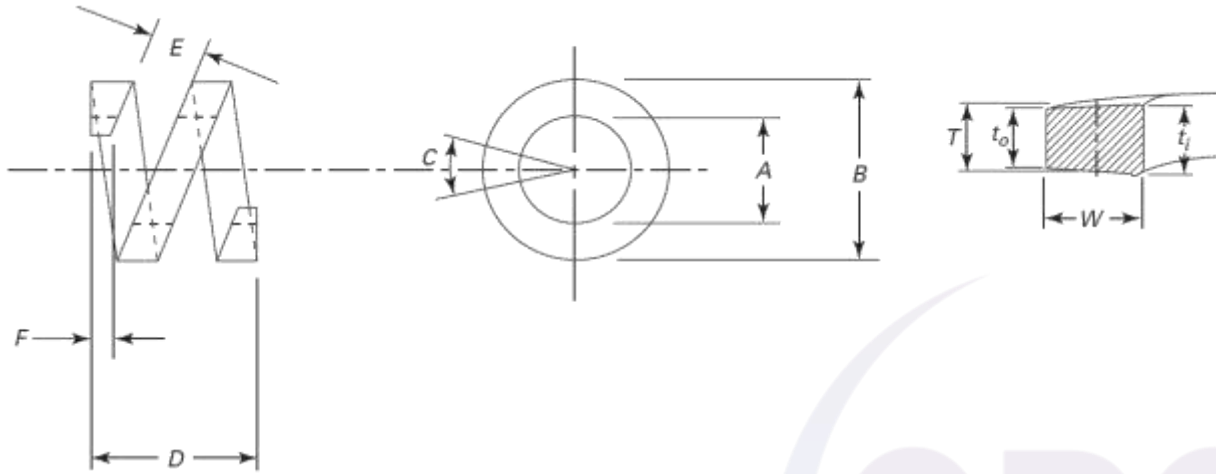
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06/21/2022



## NOTES

1. Coils on washers are made as wide as possible without being able to interlock and have beveled ends.
2. Material and dimensions per ASME B18.21.3
3. Finish: Mechanically Galvanized per ASTM B695

Nominal Washer Size	A		B	C		D	W	E	T	F	SPS Part Number	
	Inside Diameter		Outside Diameter	Cutoff Angle (deg)		Height	Width	Gap Between Coils	Mean Section Thickness $(t_i + t_o)/2$	Ground Face	Import	Domestic
	Min	Max	Max	Min	Max	Min	Min	Max	Min	Min		
3/8	0.385	0.408	0.814	30	35	0.530	0.196	0.145	0.1586	0.078	SPS-175H	SPS-175HD
1/2	0.510	0.535	1.035	30	35	0.530	0.243	0.145	0.156	0.078	SPS-176H	SPS-176HD
5/8	0.635	0.660	1.284	30	35	0.785	0.302	0.220	0.234	0.117	SPS-177H	SPS-177HD
3/4	0.760	0.791	1.415	30	35	0.785	0.302	0.220	0.234	0.117	SPS-178H	SPS-178HD
7/8	0.885	0.915	1.808	30	35	0.860	0.437	0.229	0.250	0.125	SPS-179H	SPS-179HD
1	1.010	1.040	1.928	30	35	0.860	0.437	0.229	0.250	0.125	SPS-180H	SPS-180HD

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: DOUBLE COIL LOCK WASHER PREMIUM GALVANIZED



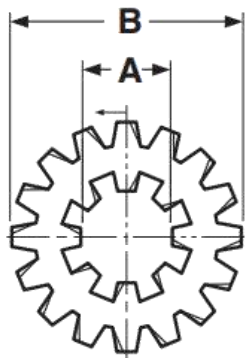
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www.spsutility.com

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DATE

B

06/21/2022



Nominal Bolt or Screw Size	A		B		C		SPS Part Number
	Inside Diameter		Outside Diameter		Thickness		
	Max	Min	Max	Min	Max	Min	
#4	0.123	0.115	0.475	0.460	0.021	0.016	04WEI
#6	0.150	0.141	0.510	0.495	0.028	0.023	06WEI
#8	0.176	0.168	0.610	0.580	0.034	0.028	08WEI
#10	0.204	0.195	0.610	0.580	0.034	0.028	10WEI
#12	0.231	0.221	0.690	0.670	0.040	0.032	12WEI
1/4	0.267	0.256	0.760	0.725	0.040	0.032	25WEI
5/16	0.332	0.320	0.900	0.865	0.040	0.032	31WEI
3/8	0.398	0.384	0.985	0.965	0.045	0.037	37WEI
7/16	0.464	0.448	1.070	1.045	0.050	0.042	43WEI
1/2	0.530	0.512	1.260	1.220	0.055	0.047	50WEI
9/16	0.596	0.576	1.315	1.290	0.055	0.047	56WEI
5/8	0.663	0.640	1.410	1.380	0.060	0.052	62WEI
3/4	0.795	0.769	1.620	1.590	0.066	0.058	75WEI

## NOTES

1. Combination Internal-External Tooth Lock Washers per ASME B18.21.1 Type A
2. Material: SAE 1050-1065 or Equivalent Spring Steel
3. Finish: Clear Zinc Plated

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: Combination Internal-External Tooth Lock Washers Zinc



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Indianapolis, IN 46256  
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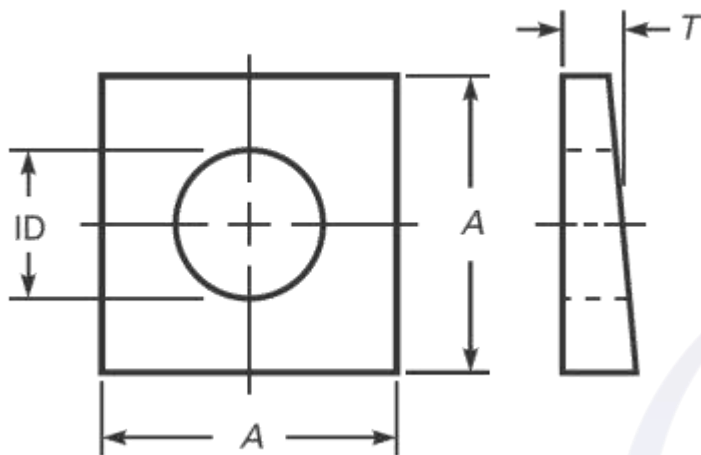
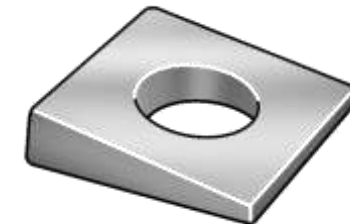
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10/03/2022

For sizes not shown, please contact SPS Sales



#### NOTES

1. Hardened Beveled Washer per ASTM F436 Type 1
2. Finish: Hot Dip Galvanized to ASTM F2329
3. Slope or Taper in Thickness 1:6
4. Marked with the manufacturer's symbol or identification mark

Nominal Bolt or Screw Size	A			ID		T	SPS Part Number	
	Side Dimension			Inside Diameter		Thickness	Hot Dip Galvanized	
	Basic	Max	Min	Max	Min	Ref	Import	Domestic
1/2	1-3/4	1.782	1.718	0.563	0.531	0.313	50WBF43603	50WBF43603D
5/8	1-3/4	1.782	1.718	0.720	0.688	0.313	62WBF43603	62WBF43603D
3/4	1-3/4	1.782	1.718	0.844	0.812	0.313	75WBF43603	75WBF43603D
7/8	1-3/4	1.782	1.718	0.970	0.938	0.313	87WBF43603	87WBF43603D
1	1-3/4	1.782	1.718	1.188	1.125	0.313	100WBF43603	100WBF43603D
1-1/8	2-1/4	2.313	2.187	1.313	1.250	0.313	112WBF43603	112WBF43603D
1-1/4	2-1/4	2.313	2.187	1.443	1.380	0.313	125WBF43603	125WBF43603D
1-3/8	2-1/4	2.313	2.187	1.563	1.500	0.313	137WBF43603	137WBF43603D
1-1/2	2-1/4	2.313	2.187	1.688	1.625	0.313	150WBF43603	150WBF43603D

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: STRUCTURAL BEVELED WASHER F436 HDG



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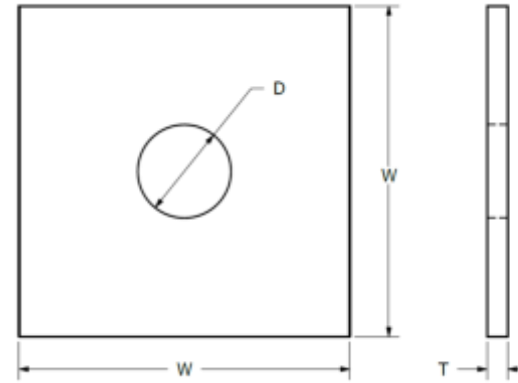
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For sizes not shown, please contact SPS Sales



Nominal Bolt Size	D	W	T	SPS Part Number
	Hole Size	Width	Thickness	
1/2	9/16	2	1/8	SPS-1073
5/8	11/16	2	1/8	SPS-1074
3/4	13/16	2	1/8	SPS-SW2-70-1/2
1/2	9/16	2	3/16	SPS-1073-3/16
5/8	11/16	2	3/16	SPS-1074-3/16
1/4	5/16	2	1/4	SPS-SW2-20
3/8	7/16	2	1/4	SPS-SW2-30
1/2	9/16	2	1/4	SPS-1073-1/4
5/8	11/16	2	1/4	SPS-1074-1/4
3/4	13/16	2	1/4	SPS-SW2-70
7/8	15/16	2	1/4	SPS-SW2-80
1	1-1/16	2	1/4	SPS-SW2-100
1-1/4	1-5/16	2	1/4	SPS-SW2-125
5/8	11/16	2-1/4	3/16	SPS-1075
3/4	13/16	2-1/4	3/16	SPS-1076
1/2	9/16	2-1/4	1/4	SPS-SW2-1/4-50
5/8	11/16	2-1/4	1/4	SPS-1075-1/4
3/4	13/16	2-1/4	1/4	SPS-1076-1/4
5/8	11/16	2-1/2	1/4	SPS-SW2-1/2-60
3/4	13/16	2-1/2	1/4	SPS-SW2-1/2-70
7/8	15/16	2-1/2	1/4	SPS-SW2-1/2-80
3/4	13/16	2-3/4	5/16	SPS-SW2-3/4-70-5/16
3/4	13/16	3	3/16	SPS-1078
1/2	9/16	3	1/4	SPS-SW3-50
5/8	11/16	3	1/4	SPS-SW3-60
3/4	13/16	3	1/4	SPS-1079
7/8	15/16	3	1/4	SPS-SW3-80
1	1-1/16	3	1/4	SPS-SW3-100
1-1/4	1-5/16	3	1/4	SPS-SW3-125
1-1/2	1-9/16	3	1/4	SPS-SW3-150
1-3/4 & 1-7/8	1-15/16	3	1/4	SPS-SW3-175

Nominal Bolt Size	D	W	T	SPS Part Number
	Hole Size	Width	Thickness	
7/8	15/16	3	5/16	SPS-SW3-80-5/16
5/8	11/16	3	3/8	SPS-SW3-60-3/8
3/4	13/16	3	3/8	SPS-1079-3/8
7/8	15/16	3	3/8	SPS-SW3-80-3/8
5/8	11/16	3-1/2	1/4	SPS-SW3-1/2-60
1	1-1/16	3-1/2	1/4	SPS-SW3-1/2-100
3/4	13/16	3-1/2	3/8	SPS-SW3-1/2-70-3/8
7/8	15/16	3-1/2	3/8	SPS-1077
1	1-1/16	3-1/2	3/8	SPS-SW3-1/2-100-3/8
5/8	11/16	3-3/4	1/4	SPS-SW3-3/4-60
3/4	13/16	4	3/16	SPS-1080
5/8	11/16	4	1/4	SPS-1083
3/4	13/16	4	1/4	SPS-681812
3/4&7/8	15/16	4	1/4	SPS-1082
1	1-1/16	4	1/4	SPS-1081-1/4
1-1/4	1-5/16	4	1/4	SPS-SW4-125
1-1/2	1-9/16	4	1/4	SPS-SW4-150
1-3/4 & 1-7/8	1-15/16	4	1/4	SPS-SW4-175
2	2-1/16	4	1/4	SPS-SW4-200
3/4	13/16	4	3/8	SPS-1080-3/8
3/4&7/8	15/16	4	3/8	SPS-1082-3/8
1	1-1/16	4	3/8	SPS-1081-3/8
5/8	11/16	4	1/2	SPS-1083-1/2
3/4	13/16	4	1/2	SPS-681912
1	1-1/8	4	1/2	SPS-1081
1	1-1/16	6	3/8	SPS-SW6-100-3/8
1	1-1/16	6	1/2	SPS-SW6-100-1/2



## NOTES

1. Type A Flat Square Washer Per ANSI/NEMA C135.10 and IEEE C135.80
2. Material: Steel Per ANSI/NEMA C135.10 and IEEE C135.80
3. Finish: Hot Dip Galvanized to ASTM A153, ASTM F2329 or Mechanical Galvanized per ASTM B695

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: **SQUARE PLATE WASHER HDG**



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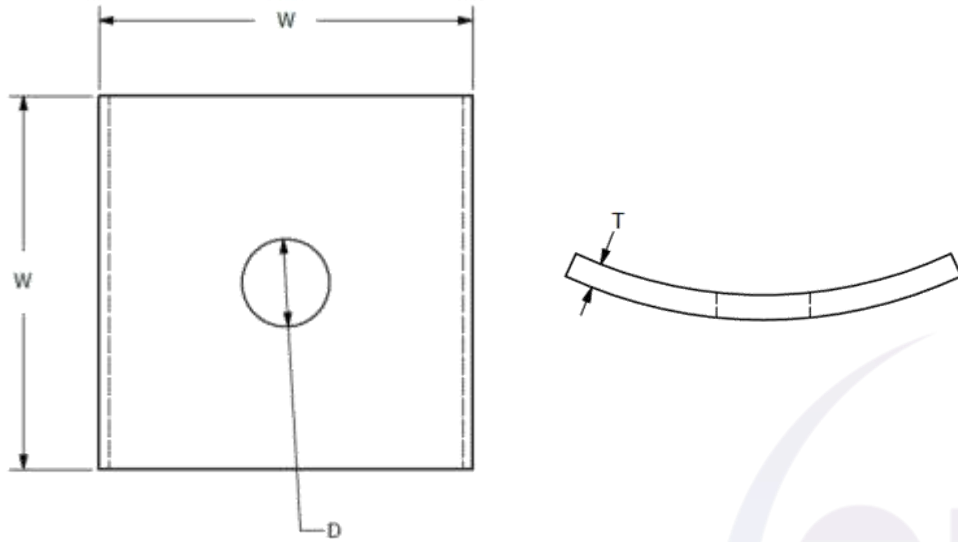
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Nominal Bolt Size	D	W	T	SPS Part Number
	Hole Size	Width	Thickness	
5/8	11/16	2-1/4	3/16	SPS-6821
5/8	11/16	2-1/2	3/16	SPS-6822
1/2	9/16	3	1/4	SPS-SCW3-50
5/8	11/16	3	1/4	SPS-113
3/4	13/16	3	1/4	SPS-6823
3/4	13/16	3-1/4	1/4	SPS-133
7/8	15/16	3-1/2	3/8	SPS-6828
1	1-1/8	3-1/2	3/8	SPS-SCW3-1/2-100-3/8
3/4	13/16	4	3/16	SPS-6838-3/16
5/8	11/16	4	1/4	SPS-114
3/4	13/16	4	1/4	SPS-6836
7/8	15/16	4	1/4	SPS-6829
1	1-1/8	4	1/4	SPS-SCW4-100
1-1/4	1-3/8	4	1/4	SPS-SCW4-120
3/4	13/16	4	3/8	SPS-6838

## NOTES

1. Type A Curved Square Washer Curved Edge-To-Edge
2. Material: Steel Per ANSI/NEMA C135.10 and IEEE C135.80
3. Finish: Hot Dip Galvanized to ASTM A153, ASTM F2329 or Mechanical Galvanized per ASTM B695

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: **SQUARE CURVED WASHER HDG**



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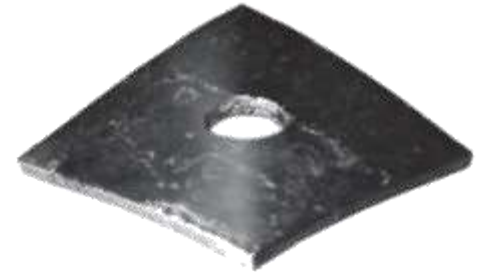
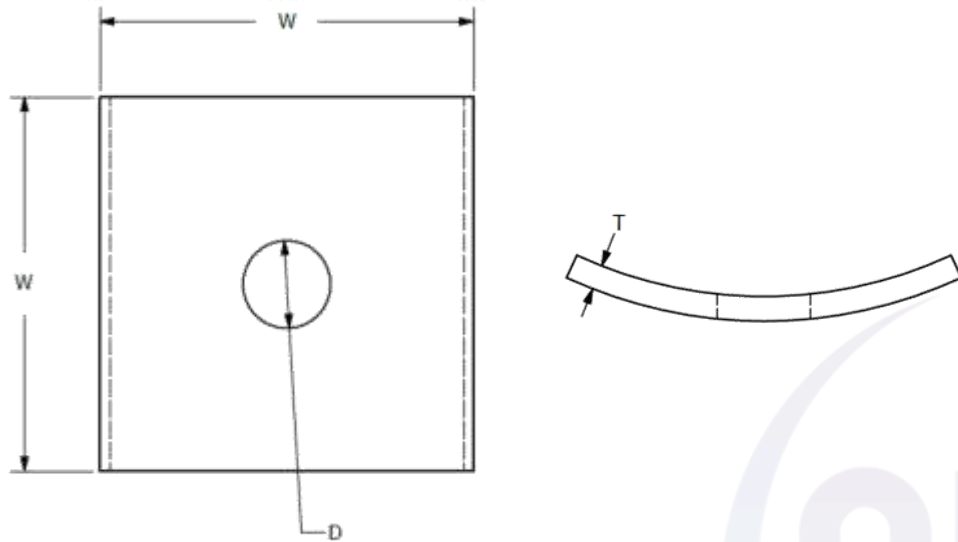
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Nominal Bolt Size	D	W	T	R	SPS Part Number
	Hole Size	Width	Thickness	Radius	
5/8	11/16	4	1/4	4.5	SPS-CW60
3/4	13/16	4	1/4	4.5	SPS-CW70
7/8	15/16	4	1/4	4.5	SPS-CW80
1	1-1/16	4	1/4	4.5	SPS-CW100
7/8	15/16	4	3/8	4.5	SPS-CW80-3/8
1	1-1/16	4	3/8	4.5	SPS-CW100-3/8
7/8	15/16	4	1/2	4.5	SPS-CW80-1/2
1	1-1/16	4	1/2	4.5	SPS-CW100-1/2

## NOTES

1. Type A Curved Square Washer Curved Corner-to-Corner
2. Material: Steel Per IEEE C135.80
3. Finish: Hot Dip Galvanized to ASTM A153 or Mechanical Galvanized per ASTM B695

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: SQUARE CURVED CORNER-TO-CORNER WASHER HDG



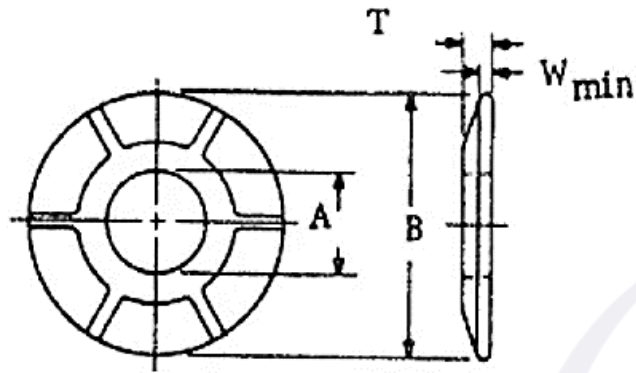
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### NOTES

1. Round Cast Washer per ANSI/NEMA C135.10 and IEEE C135.80
2. Material: Malleable or Ductile Type Ferrous Castings of Grades and Qualities Suitable to meet the Requirements of ANSI/NEMA C135.10 and IEEE C135.80 (such as Ductile Iron per ASTM A536 Grade 65-45-12)
3. Finish: Hot Dip Galvanized to ASTM A153 or ASTM F2329
4. USA Manufactured: Add "D" to end of SPS Part Number

Bolt Size	A		B			T		W	SPS Part Number
	ID		OD			Thickness at Boss			
	Min	Max	Nom	Min	Max	Min	Max	Min	
5/8	11/16	3/4	2-1/4	2-3/16	2-5/16	11/32	7/16	3/16	SPS-RW-22-5
3/4	13/16	7/8	3	2-15/16	3-1/16	13/32	1/2	5/32	SPS-RW-30-6
3/4	13/16	7/8	3-1/4	3-3/16	3-5/16	17/32	9/16	3/16	SPS-RW-32-6
7/8	15/16	1	4	3-15/16	4-1/16	17/32	9/16	3/16	SPS-RW-40-7
1	1-1/16	1-1/8	4	3-15/16	4-1/16	17/32	9/16	3/16	SPS-RW-40-8
1	1-1/16	1-1/8	6	5-15/16	6-1/16	27/32	15/16	3/16	SPS-RW-60-8

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: **ROUND FLAT CAST WASHER HDG**



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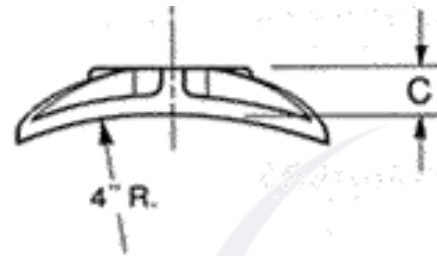
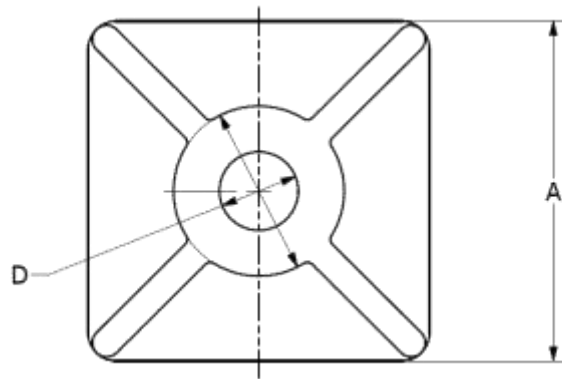
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For sizes not shown, please contact SPS Sales



## NOTES

1. Type B Curved Square Cast Washer per ANSI/NEMA C135.10 and IEEE C135.80
2. Material: Malleable or Ductile Type Ferrous Castings of Grades and Qualities Suitable to meet the Requirements of ANSI/NEMA C135.10 and IEEE C135.80 (such as Ductile Iron per ASTM A536 Grade 65-45-12)
3. Finish: Hot Dip Galvanized to ASTM A153 or ASTM F2329
4. USA Manufactured: Add "D" to end of SPS Part Number

For Bolt Size	A	C	D	SPS Part Number
	Width	Thickness	Hole Size	
5/8-3/4	2-1/4	5/16	13/16	SPS-CW-22-6
5/8-3/4	2-1/4	1/4	13/16	SPS-P141A
5/8	3	5/16	11/16	SPS-CW-33-5
5/8-3/4	3	3/8	13/16	SPS-CW-33-6
5/8-3/4	4	7/16	13/16	SPS-CW-44-6
5/8-3/4	4	7/16	13/16	SPS-CW-44-7
7/8-1	4	7/16	1-1/16	SPS-CW-44-8

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Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: SQUARE CURVED CAST WASHER HDG



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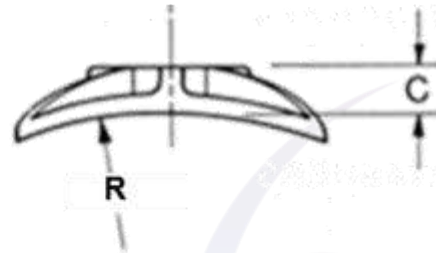
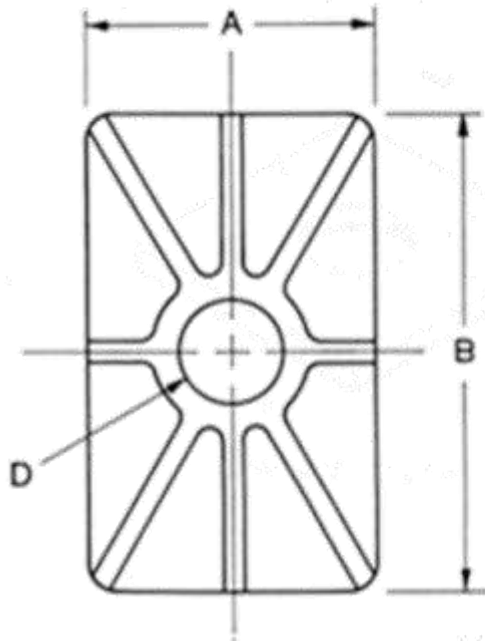
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### NOTES

1. Type B Curved Rectangular Cast Washer per ANSI/NEMA C135.10 and IEEE C135.80
2. Material: Malleable or Ductile Type Ferrous Castings of Grades and Qualities Suitable to meet the Requirements of ANSI/NEMA C135.10 and IEEE C135.80 (such as Ductile Iron per ASTM A536 Grade 65-45-12)
3. Finish: Hot Dip Galvanized to ASTM A153 or ASTM F2329
4. USA Manufactured: Add "D" to end of SPS Part Number

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

For Bolt Size	A	B	C	D	R	SPS Part Number
	Width	Length	Thickness	Hole Size	Radius	
5/8-3/4	2-1/4	3-1/2	5/16	13/16	4-1/2	SPS-CW-23-6
3/4-7/8	3	4	7/16	15/16	4-1/2	SPS-CW-34-7
7/8-1	3	4	1/2	1-1/16	4-1/2	SPS-CW-34-8
3/4-7/8	3	5	1/2	15/16	4-1/2	SPS-CW-35-7
7/8-1	3	5	1/2	1-1/16	4-1/2	SPS-CW-35-8
3/4-7/8	4	6	1/2	15/16	4-1/2	SPS-CW-46-7
7/8-1	4	6	1/2	1-1/16	4-1/2	SPS-CW-46-8

For sizes not shown, please contact SPS Sales

TITLE: RECTANGULAR CURVED CAST WASHER HDG



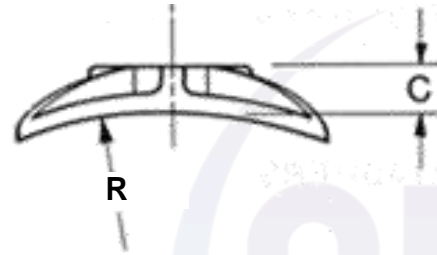
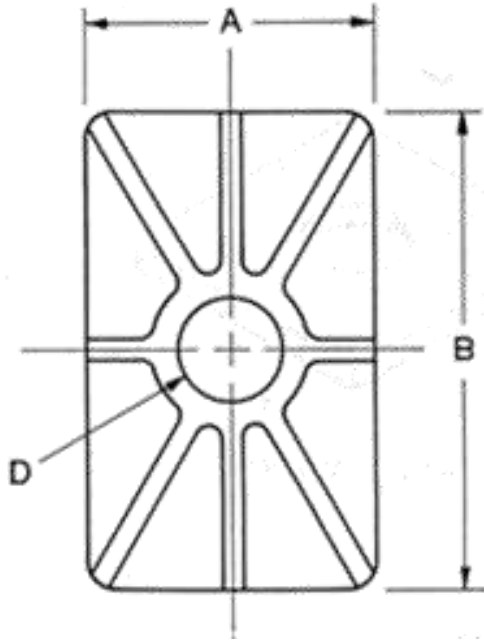
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## NOTES

1. Cast Aluminum Curved Rectangular Washer per ANSI/NEMA C135.10 and IEEE C135.80
2. Material: Aluminum Alloy AA Number A-356.0 Heat Treated to T-6 Temper
3. USA Manufactured: Add "D" to end of SPS Part Number

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

For Bolt Size	A	B	C	D	R	SPS Part Number
	Width	Length	Thickness	Hole Size	Radius	
5/8-3/4	2-1/4	3-1/2	5/16	13/16	4-1/2	SPS-WC-23-6
3/4-7/8	3	4	7/16	15/16	4-1/2	SPS-WC-34-7
3/4-7/8	3	5	1/2	15/16	4-1/2	SPS-WC-35-7

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TITLE: RECTANGULAR CURVED CAST WASHER ALUMINUM ALLOY



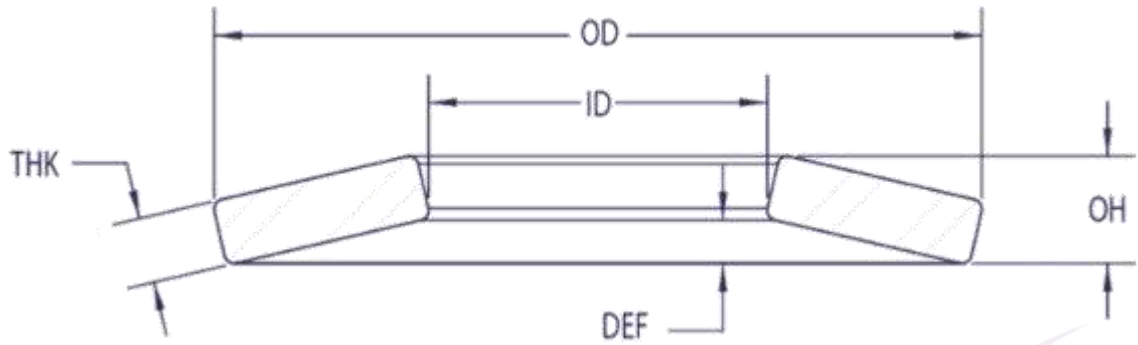
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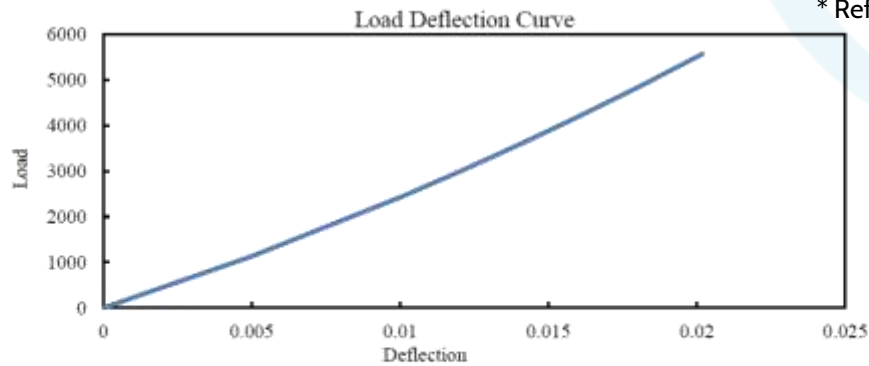
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	Inside Diameter (ID)	Outside Diameter (OD)	Thickness (THK)	Overall Height (OH)	Deflection (DEF)	Flat Load in, lbf
Nominal	0.515	1.250	0.125	0.192	0.020	5570
Tolerances:						
Min	0.505	1.235	0.122	0.182	*	4734
Max	0.535	1.250	0.128	0.202	*	6405

\* Reference Dimension



Percent Deflected	25%	50%	60%	70%	75%	80%	90%	100%
Deflection (inches)	0.0050	0.0101	0.0121	0.0141	0.0151	0.0161	0.0182	0.0202
Load (lbs)	1144	2452	3021	3617	3926	4241	4891	5570

## NOTES

Part Number: 12114-BELLE-SS  
 Material: 301 Stainless Steel  
 Finish: Plain Finish, Dry

½" Bolt Size  
 Edges are deburred  
 Rockwell Hardness: Rc 38-45  
 This material is slightly magnetic  
 Operating Temperature Range -400° to 550°F  
 Average Piece Weight: 0.0354 lbs/Pc.

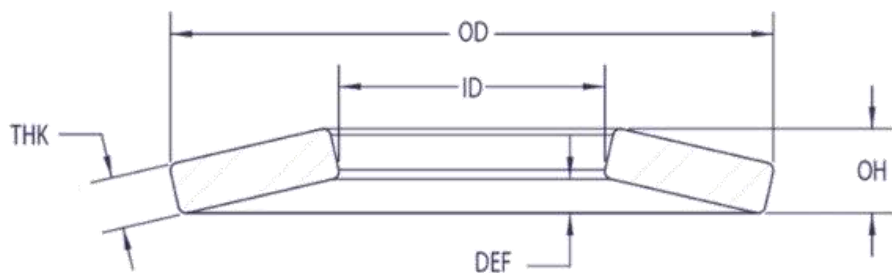
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TITLE: 12114-BELLE-SS



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Nominal Bolt or Screw Size	OD	TH	OH	DEF	Flat Load LBS F 100%	SPS Part Number
	Outside Diameter	Thickness	Overall Height	Deflection		
	Ref.	Ref.	Ref.	Ref.		
1/2	1.000	0.035	0.052	0.012	300	SPS-1000-E-035
1/2	1.000	0.050	0.075	0.016	500	SPS-1000-E-050
1/2	1.000	0.062	0.093	0.017	875	SPS-1000-E-062
1/2	1.000	0.073	0.091	0.018	1250	SPS-1000-E-073
1/2	1.000	0.083	0.128	0.018	2400	SPS-1000-E-083
1/2	1.063	0.042	0.090	0.028	450	SPS-1063-E-042
1/2	1.063	0.083	0.130	0.019	2300	SPS-1063-E-083
1/2	1.063	0.095	0.142	0.018	3300	SPS-1063-E-095
1/2	1.063	0.109	0.135	0.013	3800	SPS-1063-E-109
1/2	1.125	0.062	0.104	0.022	840	SPS-1125-E-062
1/2	1.125	0.125	0.170	0.016	5800	SPS-1125-E-125
1/2	1.188	0.095	0.152	0.022	2800	SPS-1188-E-095
1/2	1.250	0.062	0.115	0.026	860	SPS-1250-E-062
1/2	1.250	0.095	0.119	0.015	1900	SPS-1250-E-095
1/2	1.250	0.125	0.192	0.020	5570	12114-BELLE-SS
1/2	1.313	0.098	0.157	0.024	2870	SPS-1313-E-098
1/2	1.375	0.125	0.152	0.018	4200	SPS-1375-E-125
1/2	1.500	0.072	0.114	0.042	1300	SPS-1500-E-072
1/2	1.500	0.135	0.183	0.023	5000	SPS-1500-E-135

## NOTES

1. Material: 301 Stainless Steel
2. Finish: Plain Finish, Dry

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: 1/2" Belleville Washers 301 Stainless



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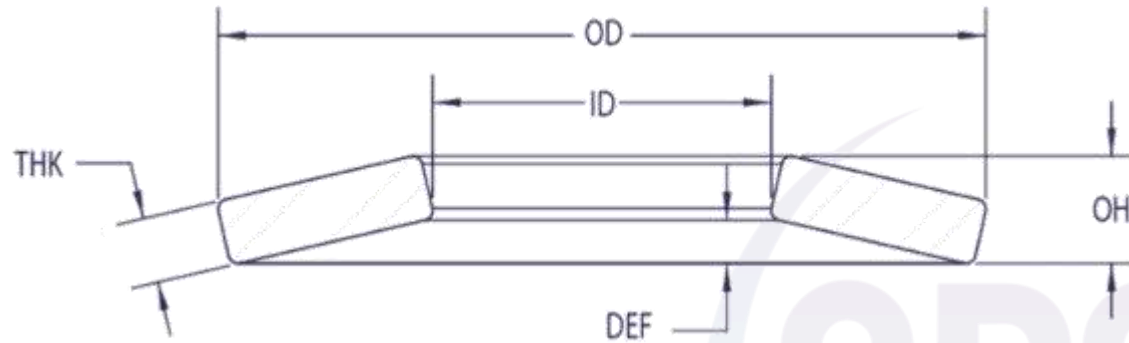
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### NOTES

1. Material per ASTM A693 17-7PH Stainless Steel
2. Finish: Plain Finish, Dry

Nominal Bolt or Screw Size	OD		ID		TH		OH		DEF	Flat Load lbf	SPS Part Number
	Outsize Diameter		Inside Diameter		Thickness		Overall Height		Deflection		
	Max	Min	Max	Min	Max	Min	Max	Min	Ref.		
3/8	0.875	0.863	0.412	0.406	0.065	0.057	0.082	0.066	0.012	1800	SPS-0875-C-062-177
M10	0.945	0.923	0.408	0.402	0.074	0.070	0.094	0.085	0.019	1835	SPS24-M10-183-177

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: Belleville Washers 17-7PH Stainless



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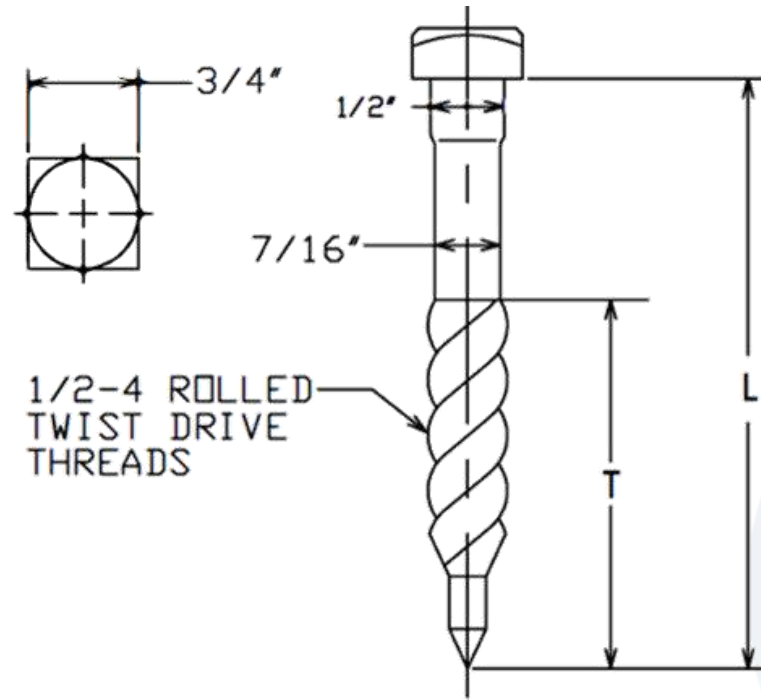
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Min. Tensile Strength	
Screw Diameter	Pounds-force (lbf)
1/4	1,500
5/16	2,300
3/8	3,500
1/2	6,500



#### NOTES

1. Material: Steel per ANSI/IEEE C135.3 and IEEE C135.80
2. Hot Dip Galvanized to ASTM A153
3. Square Head
4. Rolled Twist Drive Thread
5. Drive Point (Pilot Point)
6. Heads marked with manufacturer identification
7. Meets all requirements of ANSI/IEEE C135.3 and IEEE C135.80

Dimensions in inches unless otherwise noted

All references to standards are the latest revision unless a specific revision is identified.

Nominal Or Basic Product Diameter	Threads Per Inch	L Length	T Minimum Thread Length	SPS Part Number	
				Import	Domestic
1/2	4	3	2-1/4	SPS-8753TP	SPS-8753TPD
1/2	4	4	2-5/8	SPS-8754TP	SPS-8754TPD
1/2	4	4-1/2	2-5/8	SPS-8754-1/2TP	SPS-8754-1/2TPD
1/2	4	5	3	SPS-8755TP	SPS-8755TPD

TITLE: LAG SCREW SQ HEAD TWIST DRIVE PILOT POINT HDG



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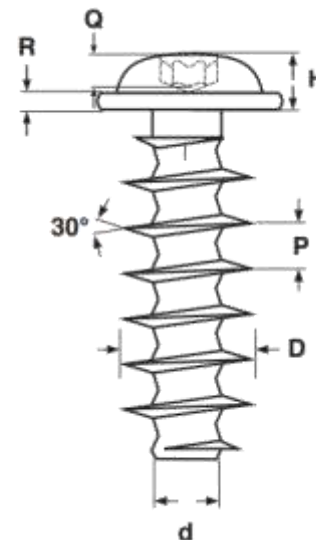
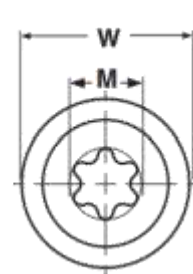
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For sizes not shown, please contact SPS Sales

Screw Size	P	D	d	W		R		H		M	Q	Drive Size
	Thread Dimensions			Head Dimensions				Recess Dimensions				
	Thread Pitch	External Dia.	Thread Core	Washer Diameter	Washer Thickness	Height	Diameter	Gauge Penetration				
	Min	Ref	Max	Min	Max	Min	Max	Min	Max	Min		
M1.6	0.67	1.6	0.95	3.6	3.12	0.60	0.40	1.32	1.075	1.47	0.40	T5
M2	0.89	2.0	1.15	4.0	3.7	0.60	0.40	1.3	1.175	1.75	0.50	T6
M2.2	0.98	2.20	1.25	4.5	4.2	0.70	0.50	1.4	1.275	1.75	0.70	T6
M2.5	1.12	2.5	1.40	5.0	4.7	0.70	0.50	1.5	1.375	2.39	0.75	T8
M3	1.34	3.00	1.66	6.0	5.7	0.80	0.60	2.1	1.975	2.80	1.05	T10
M3.5	1.57	3.50	1.91	7.0	6.7	0.90	0.70	2.4	2.275	2.80	1.15	T10
M4	1.79	4.00	2.17	8.0	7.7	1.00	0.80	2.6	2.475	3.95	1.25	T20
M5	2.24	5.00	2.68	10.0	9.7	1.20	1.00	3.3	3.175	3.95	1.40	T20



Screw Size	Thread Pitch	Length	SPS Part Number
M1.6	0.67	5	M1.65SPTRWA2
M1.6	0.67	6	M1.66SPTRWA2
M1.6	0.67	8	M1.68SPTRWA2
M2	0.89	4	M2.4SPTRWA2
M2	0.89	4.5	M2.45SPTRWA2
M2	0.89	5	M2.5SPTRWA2
M2	0.89	6	M2.6SPTRWA2
M2	0.89	8	M2.8SPTRWA2
M2	0.89	10	M2.10SPTRWA2
M2.2	0.98	4	M2.24SPTRWA2
M2.2	0.98	4.5	M2.24.5SPTRWA2
M2.2	0.98	5	M2.25SPTRWA2
M2.2	0.98	6	M2.26SPTRWA2
M2.2	0.98	8	M2.28SPTRWA2
M2.2	0.98	10	M2.210SPTRWA2
M2.2	0.98	12	M2.212SPTRWA2
M2.2	0.98	14	M2.214SPTRWA2
M2.2	0.98	16	M2.216SPTRWA2
M2.2	0.98	18	M2.218SPTRWA2
M2.5	1.12	5	M2.55SPTRWA2
M2.5	1.12	6	M2.56SPTRWA2
M2.5	1.12	7	M2.57SPTRWA2
M2.5	1.12	8	M2.58SPTRWA2
M2.5	1.12	10	M2.510SPTRWA2
M2.5	1.12	12	M2.512SPTRWA2

Screw Size	Thread Pitch	Length	SPS Part Number
M2.5	1.12	14	M2.514SPTRWA2
M2.5	1.12	16	M2.516SPTRWA2
M2.5	1.12	18	M2.518SPTRWA2
M2.5	1.12	20	M2.520SPTRWA2
M3	1.34	5	M3.5SPTRWA2
M3	1.34	6	M3.6SPTRWA2
M3	1.34	7	M3.7SPTRWA2
M3	1.34	8	M3.8SPTRWA2
M3	1.34	10	M3.10SPTRWA2
M3	1.34	12	M3.12SPTRWA2
M3	1.34	14	M3.14SPTRWA2
M3	1.34	16	M3.16SPTRWA2
M3	1.34	18	M3.18SPTRWA2
M3	1.34	20	M3.20SPTRWA2
M3	1.34	25	M3.25SPTRWA2
M3	1.34	30	M3.30SPTRWA2
M3.5	1.57	7	M3.57SPTRWA2
M3.5	1.57	8	M3.58SPTRWA2
M3.5	1.57	9	M3.59SPTRWA2
M3.5	1.57	10	M3.510SPTRWA2
M3.5	1.57	12	M3.512SPTRWA2
M3.5	1.57	14	M3.514SPTRWA2
M3.5	1.57	16	M3.516SPTRWA2
M3.5	1.57	18	M3.518SPTRWA2
M3.5	1.57	20	M3.520SPTRWA2

Screw Size	Thread Pitch	Length	SPS Part Number
M3.5	1.57	25	M3.525SPTRWA2
M3.5	1.57	30	M3.530SPTRWA2
M3.5	1.57	35	M3.535SPTRWA2
M4	1.79	6	M4.6SPTRWA2
M4	1.79	8	M4.8SPTRWA2
M4	1.79	10	M4.10SPTRWA2
M4	1.79	12	M4.12SPTRWA2
M4	1.79	14	M4.14SPTRWA2
M4	1.79	16	M4.16SPTRWA2
M4	1.79	18	M4.18SPTRWA2
M4	1.79	20	M4.20SPTRWA2
M4	1.79	25	M4.25SPTRWA2
M4	1.79	30	M4.30SPTRWA2
M4	1.79	35	M4.35SPTRWA2
M4	1.79	40	M4.40SPTRWA2
M5	2.24	8	M5.8SPTRWA2
M5	2.24	10	M5.10SPTRWA2
M5	2.24	12	M5.12SPTRWA2
M5	2.24	14	M5.14SPTRWA2
M5	2.24	16	M5.16SPTRWA2
M5	2.24	18	M5.18SPTRWA2
M5	2.24	20	M5.20SPTRWA2
M5	2.24	25	M5.25SPTRWA2
M5	2.24	30	M5.30SPTRWA2

## NOTES

1. Dimensions in mm
2. Metric Type PT-Alternative Thread Forming Screws, Round Washer Head 6-Lobe Drive
3. Thread Pattern: 30° Thread Flank
4. Material: A2 Stainless Steel
5. *EJOT® and Type PT® are registered trademarks of EJOT® GmbH & Co. KG. Our screws are not authorized or made by licensed EJOT® manufacturers*

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TITLE: METRIC TYPE PT®-ALTERNATIVE THREAD FORMING SCREWS, ROUND WASHER 6-LOBE



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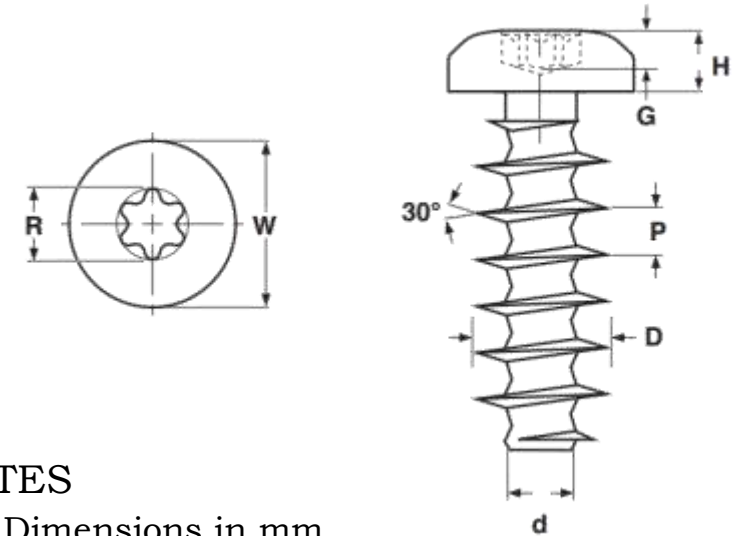
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Screw Size	P		D		d	R		H		R	G	Drive Size
	Thread Dimensions					Head Dimensions				Recess Dimensions		
	Thread Pitch	External Dia.		Thread Core	Diameter		Height		Diameter	Gauge Penetration		
	Max	Min	Ref	Max	Min	Max	Min	Max	Min			
M1.6	0.67	1.85	1.6	0.92	3.20	2.90	1.225	0.975	1.75	0.50	T6	
M2	0.89	2.14	2.0	1.15	3.60	3.30	1.625	1.375	1.75	0.63	T6	
M2.2	0.98	2.34	2.20	1.25	4.00	3.72	1.70	1.56	1.75	0.70	T6	
M2.5	1.12	2.64	2.5	1.40	4.20	3.92	1.90	1.76	2.05	0.70	T7	
M3	1.34	3.14	3.00	1.66	5.60	5.32	2.20	2.06	2.80	1.05	T10	
M3.5	1.57	3.68	3.50	1.91	6.90	6.56	2.40	2.26	2.80	1.15	T10	
M4	1.79	4.18	4.00	2.17	7.50	7.16	2.70	2.56	3.95	1.25	T20	
M5	2.24	5.18	5.00	2.68	8.20	7.86	3.00	2.86	3.95	1.40	T20	

Screw Size	Thread Pitch	Length	SPS Part Number
M1.6	0.67	4	M1.64SPTTPA2
M1.6	0.67	5	M1.65SPTTPA2
M1.6	0.67	6	M1.66SPTTPA2
M1.6	0.67	8	M1.68SPTTPA2
M2	0.89	4	M2.4SPTTPA2
M2	0.89	4.5	M2.45SPTTPA2
M2	0.89	5	M2.5SPTTPA2
M2	0.89	6	M2.6SPTTPA2
M2	0.89	8	M2.8SPTTPA2
M2	0.89	10	M2.10SPTTPA2
M2.2	0.98	4	M2.24SPTTPA2
M2.2	0.98	4.5	M2.24.5SPTTPA2
M2.2	0.98	5	M2.25SPTTPA2
M2.2	0.98	6	M2.26SPTTPA2
M2.2	0.98	8	M2.28SPTTPA2
M2.2	0.98	10	M2.210SPTTPA2
M2.2	0.98	12	M2.212SPTTPA2
M2.2	0.98	14	M2.214SPTTPA2
M2.2	0.98	16	M2.216SPTTPA2
M2.2	0.98	18	M2.218SPTTPA2
M2.5	1.12	5	M2.55SPTTPA2
M2.5	1.12	6	M2.56SPTTPA2
M2.5	1.12	7	M2.57SPTTPA2
M2.5	1.12	8	M2.58SPTTPA2
M2.5	1.12	10	M2.510SPTTPA2
M2.5	1.12	12	M2.512SPTTPA2
M2.5	1.12	14	M2.514SPTTPA2

Screw Size	Thread Pitch	Length	SPS Part Number
M2.5	1.12	16	M2.516SPTTPA2
M2.5	1.12	18	M2.518SPTTPA2
M2.5	1.12	20	M2.520SPTTPA2
M3	1.34	5	M3.5SPTTPA2
M3	1.34	6	M3.6SPTTPA2
M3	1.34	7	M3.7SPTTPA2
M3	1.34	8	M3.8SPTTPA2
M3	1.34	10	M3.10SPTTPA2
M3	1.34	12	M3.12SPTTPA2
M3	1.34	14	M3.14SPTTPA2
M3	1.34	16	M3.16SPTTPA2
M3	1.34	18	M3.18SPTTPA2
M3	1.34	20	M3.20SPTTPA2
M3	1.34	25	M3.25SPTTPA2
M3	1.34	30	M3.30SPTTPA2
M3.5	1.57	7	M3.57SPTTPA2
M3.5	1.57	8	M3.58SPTTPA2
M3.5	1.57	9	M3.59SPTTPA2
M3.5	1.57	10	M3.510SPTTPA2
M3.5	1.57	12	M3.512SPTTPA2
M3.5	1.57	14	M3.514SPTTPA2
M3.5	1.57	16	M3.516SPTTPA2
M3.5	1.57	18	M3.518SPTTPA2
M3.5	1.57	20	M3.520SPTTPA2
M3.5	1.57	25	M3.525SPTTPA2
M3.5	1.57	30	M3.530SPTTPA2
M3.5	1.57	35	M3.535SPTTPA2

Screw Size	Thread Pitch	Length	SPS Part Number
M4	1.79	5	M4.5SPTTPA2
M4	1.79	6	M4.6SPTTPA2
M4	1.79	8	M4.8SPTTPA2
M4	1.79	10	M4.10SPTTPA2
M4	1.79	12	M4.12SPTTPA2
M4	1.79	14	M4.14SPTTPA2
M4	1.79	16	M4.16SPTTPA2
M4	1.79	18	M4.18SPTTPA2
M4	1.79	20	M4.20SPTTPA2
M4	1.79	25	M4.25SPTTPA2
M4	1.79	30	M4.30SPTTPA2
M4	1.79	35	M4.35SPTTPA2
M4	1.79	40	M4.40SPTTPA2
M5	2.24	8	M5.8SPTTPA2
M5	2.24	10	M5.10SPTTPA2
M5	2.24	12	M5.12SPTTPA2
M5	2.24	14	M5.14SPTTPA2
M5	2.24	16	M5.16SPTTPA2
M5	2.24	18	M5.18SPTTPA2
M5	2.24	20	M5.20SPTTPA2
M5	2.24	25	M5.25SPTTPA2
M5	2.24	30	M5.30SPTTPA2



## NOTES

1. Dimensions in mm
2. Metric Type PT-Alternative Thread Forming Screws, Phillips Head 6-Lobe Drive
3. Thread Pattern: 30° Thread Flank
4. Material: A2 Stainless Steel
5. *EJOT® and Type PT® are registered trademarks of EJOT® GmbH & Co. KG. Our screws are not authorized or made by licensed EJOT® manufacturers*

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TITLE: METRIC TYPE PT®-ALTERNATIVE THREAD FORMING SCREWS, PAN HEAD 6-LOBE



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# ANCHORS

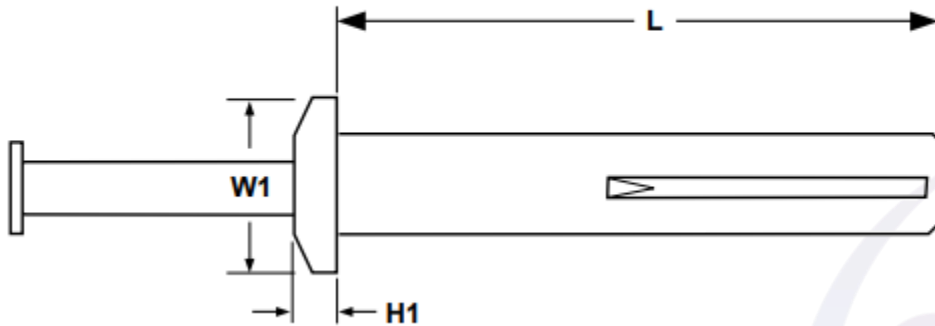


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## NOTES

1. Hammer Drive Mushroom Head Anchor per FF-S-325, Group V, Type 2, Class 3
2. Material:
  - Anchor: Zinc Alloy
  - Pin: AISI 1018 or Equivalent Carbon Steel
3. Finish: Zinc Plated

Anchor Size	Fixture Clearance Hole	H1	W1	L	SPS Part Number
		Height Ref	Width Ref	Length Ref	
3/16	1/4	7/64	13/32	7/8	1014ADH
1/4	5/16	9/64	35/64	3/4	2512ADH
1/4	5/16	9/64	35/64	1	2516ADH
1/4	5/16	9/64	35/64	1-1/4	2520ADH
1/4	5/16	9/64	35/64	1-1/2	2524ADH
1/4	5/16	9/64	35/64	2	2532ADH
1/4	5/16	9/64	35/64	2-1/2	2540ADH
1/4	5/16	9/64	35/64	3	2548ADH

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: HAMMER DRIVE MUSHROOM HEAD ANCHOR ZINC



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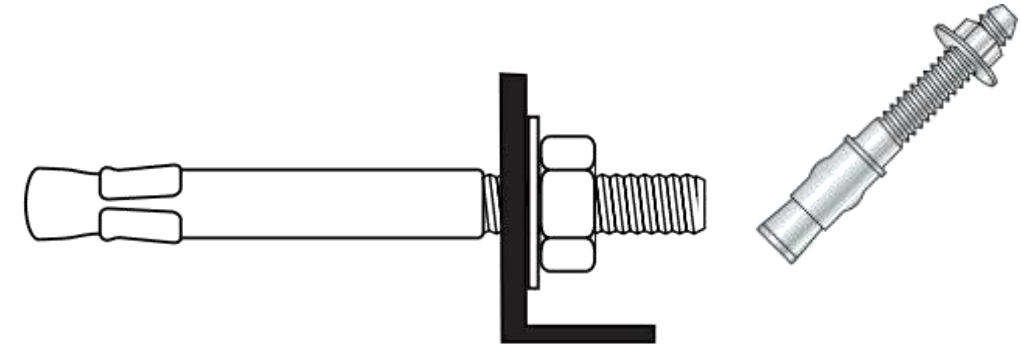
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For sizes not shown, please contact SPS Sales

SPS Part Number	Anchor Size & Threads	Length	Minimum Embedment	Average Ultimate Load			Allowable Tension Design Values, lbs.				Allowable Shear Design Values, lbs.
				Installation Torque	Tension	Shear	Minimum Concrete Compressive Strength, f'c, psi				Minimum Concrete Compressive Strength, f'c, psi
							ft.-lbs.	lbs.	lbs.	lbs.	
3736AWG	3/8-16	2-1/4	2-1/4	25	4,399	3,341	1,100	1,205	1,300	1,390	835
3744AWG	3/8-16	2-3/4									
3748AWG	3/8-16	3									
3752AWG	3/8-16	3-1/4									
3756AWG	3/8-16	3-1/2									
3760AWG	3/8-16	3-3/4									
3780AWG	3/8-16	5									
37104AWG	3/8-16	6-1/2									
37112AWG	3/8-16	7	2-1/2	40	5,837	5,805	1,460	1,600	1,725	1,845	1,450
5044AWG	1/2-13	2-3/4									
5048AWG	1/2-13	3									
5052AWG	1/2-13	3-1/4									
5060AWG	1/2-13	3-3/4									
5068AWG	1/2-13	4-1/4									
5072AWG	1/2-13	4-1/2									
5088AWG	1/2-13	5-1/2									
5096AWG	1/2-13	6									
50112AWG	1/2-13	7									
50136AWG	1/2-13	8-1/2									
50160AWG	1/2-13	10									
50192AWG	1/2-13	12	3-1/2	80	8,456	10,949	2,115	2,315	2,505	2,675	2,735
6256AWG	5/8-11	3-1/2									
6264AWG	5/8-11	4									
6268AWG	5/8-11	4-1/4									
6272AWG	5/8-11	4-1/2									
6280AWG	5/8-11	5									
6296AWG	5/8-11	6									
62112AWG	5/8-11	7									
62136AWG	5/8-11	8-1/2									
62160AWG	5/8-11	10									
62192AWG	5/8-11	12	4	110	11,510	17,194	2,880	3,155	3,410	3,645	4,300
7568AWG	3/4-10	4-1/4									
7572AWG	3/4-10	4-1/2									
7576AWG	3/4-10	4-3/4									
7588AWG	3/4-10	5-1/2									
75100AWG	3/4-10	6-1/4									
75112AWG	3/4-10	7									
75136AWG	3/4-10	8-1/2									
75160AWG	3/4-10	10									
75192AWG	3/4-10	12									



NOTES

- Commercial Wedge Anchor
- Material: Carbon Steel
- Finish: Zinc Plated
- The load data is based on testing in accordance with ASTM E488-15, *Standard Test Methods for Strength of Anchors in Concrete Elements*.
- Tables with average ultimate loads from the testing are included plus tables with allowable strength design (ASD) values based on a safety factor of 4 applied to the average ultimate loads. It is noted that building codes in the United States require ultimate strength design (USD) also called load factor and resistance design (LFRD) for design of anchorages to concrete. ASD values are provided to facilitate use by those who want to use ASD.
- Minimum Embedment measured from the concrete surface to the embedded end of the anchor.
- Components:
  - UNC Threaded Stud with expansion wedge clip
  - Finished Hex Nut
  - SAE Flat Washer

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: ANCHORS, WEDGE, COMMERCIAL STEEL ZINC



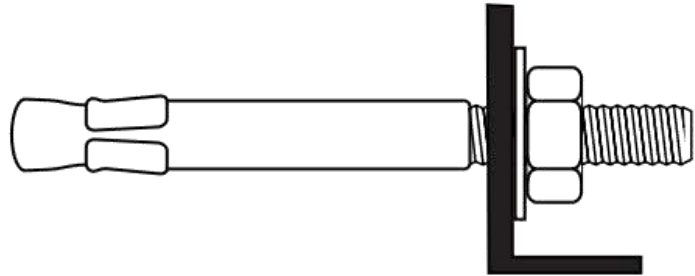
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SPS Part Number	Anchor Size & Threads	Length	Minimum Embedment	Average Ultimate Load			Allowable Tension Design Values, lbs.				Allowable Shear Design Values, lbs.
				Installation Torque	Tension	Shear	Minimum Concrete Compressive Strength, f 'c, psi				Minimum Concrete Compressive Strength, f 'c, psi
							ft.-lbs.	lbs.	lbs.	2,500	
in.	ft.-lbs.	lbs.	lbs.	2,500	3,000	3,500	4,000	2,500			
3756AWG03	3/8-16	3-1/2	2-1/4	25	3,154	3,882	790	865	935	1,000	970
5044AWG03	1/2-13	2-3/4	2-1/2	40	5,509	7,038	1,375	1,505	1,625	1,740	1,760
5060AWG03	1/2-13	3-3/4									
5068AWG03	1/2-13	4-1/4									
5088AWG03	1/2-13	5-1/2									
50112AWG03	1/2-13	7									
50136AWG03	1/2-13	8-1/2									
50160AWG03	1/2-13	10									
6256AWG03	5/8-11	3-1/2	3-1/2	80	8,349	12,827	2,085	2,285	2,465	2,635	3,205
6268AWG03	5/8-11	4-1/4									
6280AWG03	5/8-11	5									
6296AWG03	5/8-11	6									
62112AWG03	5/8-11	7									
62136AWG03	5/8-11	8-1/2									
62160AWG03	5/8-11	10									
7576AWG03	3/4-10	4-3/4	4	110	9,360	19,112	2,340	2,565	2,770	2,960	4,780
7588AWG03	3/4-10	5-1/2									
75100AWG03	3/4-10	6-1/4									
75112AWG03	3/4-10	7									
75136AWG03	3/4-10	8-1/2									
75160AWG03	3/4-10	10									

NOTES

- Commercial Wedge Anchor
- Material: Carbon Steel
- Finish: Hot Dip Galvanized
- The load data is based on testing in accordance with ASTM E488-15, *Standard Test Methods for Strength of Anchors in Concrete Elements*.
- Tables with average ultimate loads from the testing are included plus tables with allowable strength design (ASD) values based on a safety factor of 4 applied to the average ultimate loads. It is noted that building codes in the United States require ultimate strength design (USD) also called load factor and resistance design (LFRD) for design of anchorages to concrete. ASD values are provided to facilitate use by those who want to use ASD.
- Minimum Embedment measured from the concrete surface to the embedded end of the anchor.
- Components:
  - UNC Threaded Stud with expansion wedge clip
  - Finished Hex Nut
  - SAE Flat Washer

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: ANCHORS, WEDGE, COMMERCIAL STEEL HDG



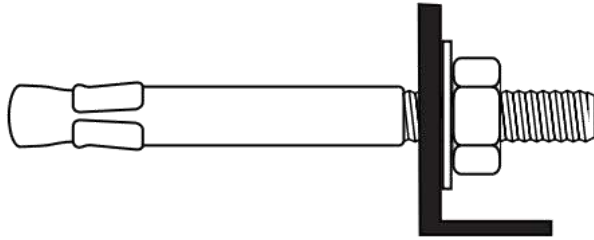
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SPS Part Number	Anchor Size & Threads	Length	Minimum Embedment	Average Ultimate Load			Allowable Tension Design Values, lbs.				Allowable Shear Design Values, lbs.									
				Installation Torque	Tension	Shear	Minimum Concrete Compressive Strength, f 'c, psi				Minimum Concrete Compressive Strength, f 'c, psi									
							ft.-lbs.	lbs.	lbs.	2,500		3,000	3,500	4,000	2,500					
3736AWG188	3/8-16	2-1/4	2-1/4	25	3,993	6,928	1,000	1,095	1,185	1,265	1,730									
3744AWG188	3/8-16	2-3/4																		
3748AWG188	3/8-16	3																		
3756AWG188	3/8-16	3-1/2																		
3760AWG188	3/8-16	3-3/4																		
3780AWG188	3/8-16	5																		
37104AWG188	3/8-16	6-1/2	2-1/2	40	4,758	8,288	1,190	1,305	1,410	1,505	2,070									
5044AWG188	1/2-13	2-3/4																		
5060AWG188	1/2-13	3-3/4																		
5068AWG188	1/2-13	4-1/4																		
5088AWG188	1/2-13	5-1/2																		
50112AWG188	1/2-13	7																		
50136AWG188	1/2-13	8-1/2																		
50160AWG188	1/2-13	10																		
50192AWG188	1/2-13	12																		
6256AWG188	5/8-11	3-1/2										3-1/2	80	7,112	15,603	1,780	1,950	2,105	2,250	3,900
6272AWG188	5/8-11	4-1/2																		
6280AWG188	5/8-11	5																		
6296AWG188	5/8-11	6																		
62112AWG188	5/8-11	7																		
62136AWG188	5/8-11	8-1/2																		
62160AWG188	5/8-11	10																		
62192AWG188	5/8-11	12																		
7568AWG188	3/4-10	4-1/4	4	110	10,318	20,897	2,580	2,825	3,055	3,265	5,225									
7576AWG188	3/4-10	4-3/4																		
7588AWG188	3/4-10	5-1/2																		
75100AWG188	3/4-10	6-1/4																		
75112AWG188	3/4-10	7																		
75136AWG188	3/4-10	8-1/2																		
75160AWG188	3/4-10	10																		
75192AWG188	3/4-10	12																		

**NOTES**

- Commercial Wedge Anchor
- Material: 304 Stainless Steel
- The load data is based on testing in accordance with ASTM E488-15, *Standard Test Methods for Strength of Anchors in Concrete Elements*.
- Tables with average ultimate loads from the testing are included plus tables with allowable strength design (ASD) values based on a safety factor of 4 applied to the average ultimate loads. It is noted that building codes in the United States require ultimate strength design (USD) also called load factor and resistance design (LFRD) for design of anchorages to concrete. ASD values are provided to facilitate use by those who want to use ASD.
- Minimum Embedment measured from the concrete surface to the embedded end of the anchor.
- Components:
  - UNC Threaded Stud with expansion wedge clip
  - Finished Hex Nut
  - SAE Flat Washer

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

**TITLE: ANCHORS, WEDGE, COMMERCIAL 304 STAINLESS**



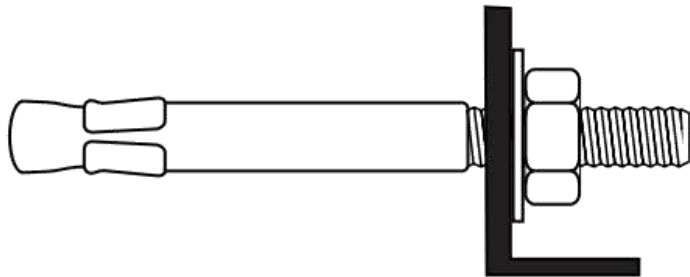
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**NOTES**

1. Commercial Wedge Anchor
2. Material: 316 Stainless Steel
3. The load data is based on testing in accordance with ASTM E488-15, *Standard Test Methods for Strength of Anchors in Concrete Elements*.
4. Tables with average ultimate loads from the testing are included plus tables with allowable strength design (ASD) values based on a safety factor of 4 applied to the average ultimate loads. It is noted that building codes in the United States require ultimate strength design (USD) also called load factor and resistance design (LFRD) for design of anchorages to concrete. ASD values are provided to facilitate use by those who want to use ASD.
5. Minimum Embedment measured from the concrete surface to the embedded end of the anchor.
6. Components:
  - UNC Threaded Stud with expansion wedge clip
  - Finished Hex Nut
  - SAE Flat Washer

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

SPS Part Number	Anchor Size & Threads	Length	Minimum Embedment	Average Ultimate Load			Allowable Tension Design Values, lbs.				Allowable Shear Design Values, lbs.
				Installation Torque	Tension	Shear	Minimum Concrete Compressive Strength, f'c, psi				Minimum Concrete Compressive Strength, f'c, psi
							2,500	3,000	3,500	4,000	
			in.	ft.-lbs.	lbs.	lbs.					
3744AWG316	3/8-16	2-3/4	2-1/4	25	3,993	6,928	1,000	1,095	1,185	1,265	1,730
3748AWG316	3/8-16	3									
3760AWG316	3/8-16	3-3/4									
3780AWG316	3/8-16	5									
5044AWG316	1/2-13	2-3/4	2-1/2	40	4,758	8,288	1,190	1,305	1,410	1,505	2,070
5060AWG316	1/2-13	3-3/4									
5068AWG316	1/2-13	4-1/4									
5088AWG316	1/2-13	5-1/2									
50112AWG316	1/2-13	7									
6256AWG316	5/8-11	3-1/2	3-1/2	80	7,112	15,603	1,780	1,950	2,105	2,250	3,900
6272AWG316	5/8-11	4-1/2									
6280AWG316	5/8-11	5									
6296AWG316	5/8-11	6									
62112AWG316	5/8-11	7									
62136AWG316	5/8-11	8-1/2									
7568AWG316	3/4-10	4-1/4	4	110	10,318	20,897	2,580	2,825	3,055	3,265	5,225
7576AWG316	3/4-10	4-3/4									
7588AWG316	3/4-10	5-1/2									
75100AWG316	3/4-10	6-1/4									
75112AWG316	3/4-10	7									
75136AWG316	3/4-10	8-1/2									

**TITLE: ANCHORS, WEDGE, COMMERCIAL 316 STAINLESS**



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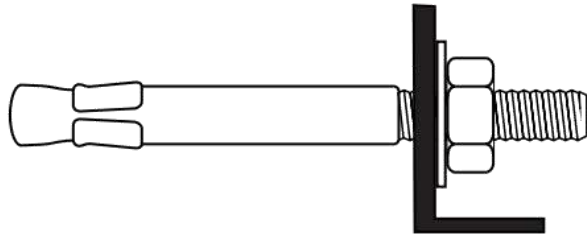
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SPS Part Number	Anchor Size & Threads	Length	Minimum Embedment in.	Tension Resistance, Uncracked, lbs.	Tension Resistance, Cracked, lbs.	Minimum Concrete Thickness, in.	Critical Edge Distance, in.
				Minimum Concrete Compressive Strength, f 'c, psi	Minimum Concrete Compressive Strength, f 'c, psi		
3736AWGC	3/8-16	2-1/4	2-3/8	3,013	2,404	4-1/2	8
3744AWGC	3/8-16	2-3/4					
3748AWGC	3/8-16	3					
3760AWGC	3/8-16	3-3/4					
3780AWGC	3/8-16	5	3	3,394	2,970	6	8
37104AWGC	3/8-16	6-1/2					
5044AWGC	1/2-13	2-3/4					
5060AWGC	1/2-13	3-3/4					
5068AWGC	1/2-13	4-1/4					
5072AWGC	1/2-13	4-1/2					
5088AWGC	1/2-13	5-1/2					
50112AWGC	1/2-13	7					
50136AWGC	1/2-13	8-1/2					
50160AWGC	1/2-13	10					
50192AWGC	1/2-13	12	3-9/16	7,014	4,037	6-1/2	13
6256AWGC	5/8-11	3-1/2					
6272AWGC	5/8-11	4-1/2					
6280AWGC	5/8-11	5					
6296AWGC	5/8-11	6					
62112AWGC	5/8-11	7					
62136AWGC	5/8-11	8-1/2	4-1/8	8,840	7,857	6-1/2	11
62160AWGC	5/8-11	10					
62192AWGC	5/8-11	12					
7568AWGC	3/4-10	4-1/4					
7576AWGC	3/4-10	4-3/4					
7588AWGC	3/4-10	5-1/2					
75100AWGC	3/4-10	6-1/4					
75112AWGC	3/4-10	7					
75136AWGC	3/4-10	8-1/2	3/4-10	3/4-10	3/4-10	3/4-10	3/4-10
75160AWGC	3/4-10	10					
75192AWGC	3/4-10	12					

### NOTES

1. Heavy Duty Wedge Anchor for Cracked and Uncracked Concrete, Anchor Category 1
2. Material: Carbon Steel
3. Finish: Zinc Plated per ASTM B633, SC1, Type III
4. Minimum Embedment measured from the concrete surface to the embedded end of the anchor.
5. Additional data and ICC-ES Report available.
6. Components:
  - UNC Threaded Stud with expansion wedge clip
  - Finished Hex Nut
  - SAE Flat Washer

Dimensions in inches unless otherwise noted  
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TITLE: ANCHORS, WEDGE, HEAVY DUTY STEEL ZINC



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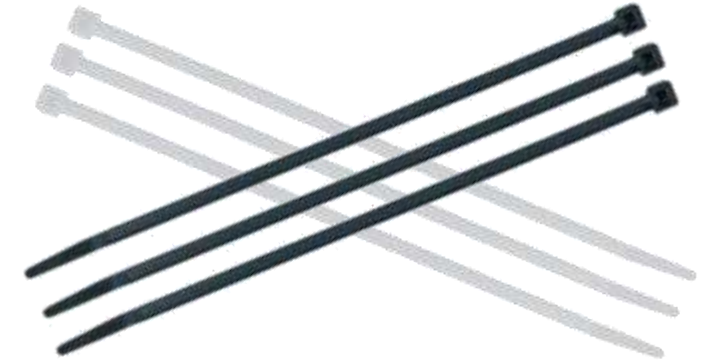
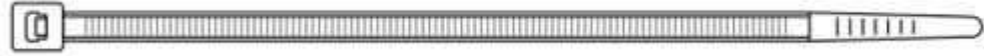
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Nominal or Basic Product Length (in inches)	Length	Width	Thickness	Bundle Diameter	SPS Part Number	
	Ref	Ref	Ref	Max	Natural	UV Black
4	4.7	0.19	0.06	1.0	SPS-CT-4-50-N	SPS-CT-4-50-UV
6	6.3	0.19	0.06	1.5	SPS-CT-6-50-N	SPS-CT-6-50-UV
8	7.6	0.19	0.06	2.0	SPS-CT-8-50-N	SPS-CT-8-50-UV
11	11.1	0.19	0.06	3.0	SPS-CT-11-50-N	SPS-CT-11-50-UV
14	14.5	0.19	0.06	4.0	SPS-CT-14-50-N	SPS-CT-14-50-UV
15	15.2	0.19	0.06	4.3	SPS-CT-15-50-N	SPS-CT-15-50-UV
17	17.0	0.19	0.06	5.0	SPS-CT-17-50-N	SPS-CT-17-50-UV
19	19.7	0.19	0.06	4.8	SPS-CT-19-50-N	SPS-CT-19-50-UV
21	21.7	0.19	0.07	6.4	SPS-CT-21-50-N	SPS-CT-21-50-UV
24	24.0	0.19	0.07	7.4	SPS-CT-24-50-N	SPS-CT-24-50-UV
36	36.0	0.19	0.08	10.9	SPS-CT-36-50-N	SPS-CT-36-50-UV

## NOTES

- Standard Cable Ties
- Tensile Strength: 50 lbs
- Material: Nylon 6/6
- Colors Available:
  - Natural
  - UV Black
  - Standard and Fluorescent Colors
- Temperature Rating: -40° F to 185° F
- Flammability Rating: UL 94-V2

Dimensions in inches unless otherwise noted  
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TITLE: STANDARD CABLE TIES



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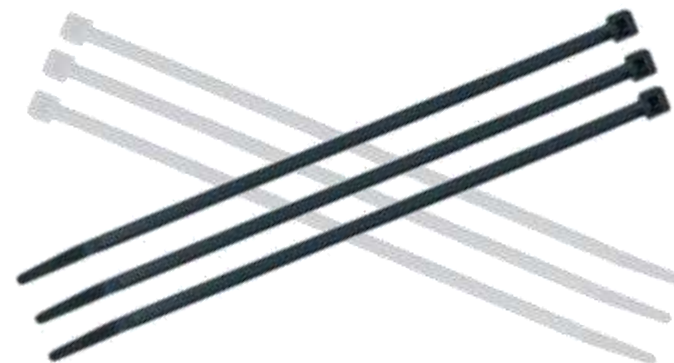
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Nominal or Basic Product Length (in inches)	Length	Width	Thickness	Bundle Diameter	SPS Part Number	
	Ref	Ref	Ref	Max	Natural	UV Black
3	3.0	0.10	0.04	0.6	SPS-CT-3-18-N	SPS-CT-3-18-UV
4	4.1	0.10	0.04	1.0	SPS-CT-4-18-N	SPS-CT-4-18-UV
6	6.1	0.10	0.05	1.2	SPS-CT-6-18-N	SPS-CT-6-18-UV
8	8.0	0.10	0.05	2.2	SPS-CT-8-18-N	SPS-CT-8-18-UV
15	15.8	0.10	0.06	4.5	SPS-CT-15-18-N	SPS-CT-15-18-UV

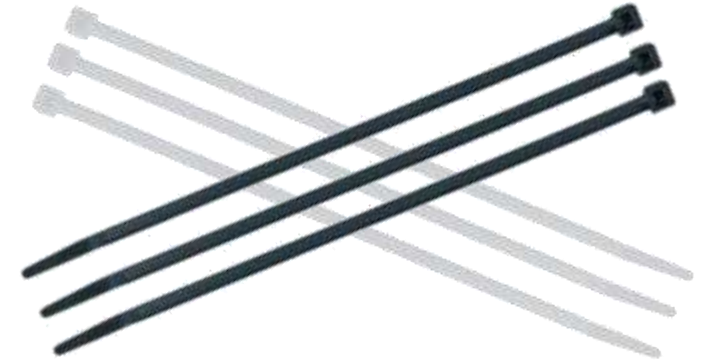
## NOTES

1. Miniature Cable Ties
2. Tensile Strength: 18 lbs
3. Material: Nylon 6/6
4. Colors Available:
  - Natural
  - UV Black
  - Standard and Fluorescent Colors
5. Temperature Rating: -40° F to 185° F
6. Flammability Rating: UL 94-V2

Dimensions in inches unless otherwise noted  
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TITLE: MINIATURE CABLE TIES						
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Nominal or Basic Product Length (in inches)	Length	Width	Thickness	Bundle Diameter	SPS Part Number	
	Ref	Ref	Ref	Max	Natural	UV Black
5	5.7	0.14	0.06	1.25	SPS-CT-5-40-N	SPS-CT-5-40-UV
6	6.0	0.14	0.06	1.5	SPS-CT-6-40-N	SPS-CT-6-40-UV
8	8.0	0.14	0.06	2.0	SPS-CT-8-40-N	SPS-CT-8-40-UV
11	11.5	0.14	0.06	3.2	SPS-CT-11-40-N	SPS-CT-11-40-UV
14	14.5	0.14	0.06	4.1	SPS-CT-14-40-N	SPS-CT-14-40-UV

## NOTES

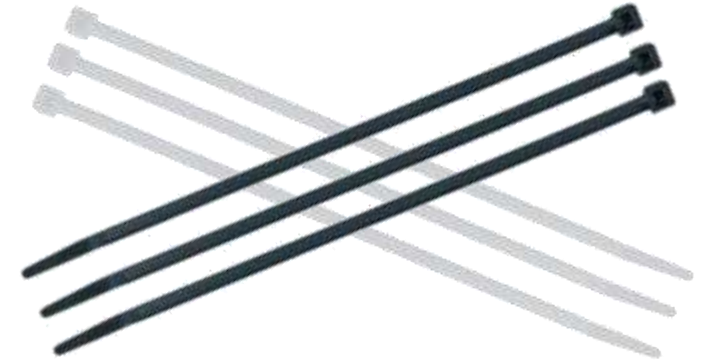
1. Intermediate Cable Ties
2. Tensile Strength: 40 lbs
3. Material: Nylon 6/6
4. Colors Available:
  - Natural
  - UV Black
  - Standard and Fluorescent Colors
5. Temperature Rating: -40° F to 185° F
6. Flammability Rating: UL 94-V2

Dimensions in inches unless otherwise noted  
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### NOTES

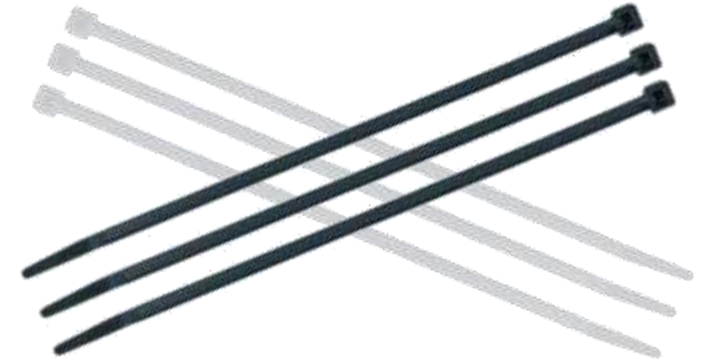
1. Heavy Duty Cable Ties
2. Tensile Strength: 120 lbs
3. Material: Nylon 6/6
4. Colors Available:
  - Natural
  - UV Black
5. Temperature Rating: -40° F to 185° F
6. Flammability Rating: UL 94-V2

Nominal or Basic Product Length (in inches)	Length	Width	Thickness	Bundle Diameter	SPS Part Number	
	Ref	Ref	Ref	Max	Natural	UV Black
8	9.0	0.30	0.07	2.0	SPS-CT-8-120-N	SPS-CT-8-120-UV
11	12.0	0.30	0.07	3.0	SPS-CT-11-120-N	SPS-CT-11-120-UV
14	15.0	0.30	0.07	4.0	SPS-CT-14-120-N	SPS-CT-14-120-UV
18	17.7	0.30	0.07	5.0	SPS-CT-18-120-N	SPS-CT-18-120-UV
21	21.7	0.30	0.07	6.3	SPS-CT-21-120-N	SPS-CT-21-120-UV
28	28.0	0.30	0.08	8.2	SPS-CT-28-120-N	SPS-CT-28-120-UV

Dimensions in inches unless otherwise noted  
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TITLE: HEAVY DUTY CABLE TIES			
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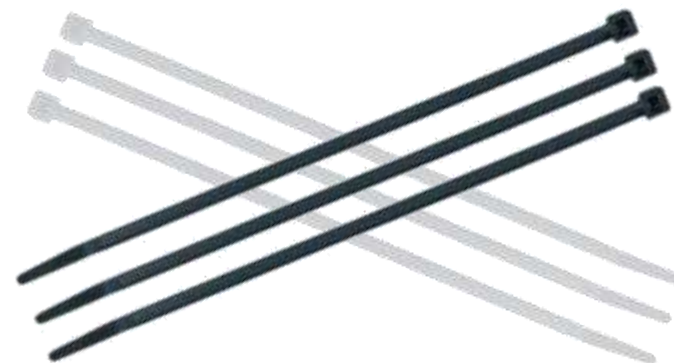
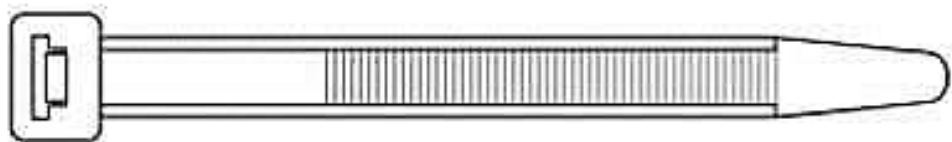
1. Extra Heavy Duty Cable Ties
2. Tensile Strength: 175 lbs
3. Material: Nylon 6/6
4. Colors Available:
  - Natural
  - UV Black
5. Temperature Rating: -40° F to 185° F
6. Flammability Rating: UL 94-V2

Nominal or Basic Product Length (in inches)	Length	Width	Thickness	Bundle Diameter	SPS Part Number	
	Ref	Ref	Ref	Max	Natural	UV Black
18	17.8	0.35	0.08	5.0	SPS-CT-18-175-N	SPS-CT-18-175-UV
21	21.7	0.35	0.08	6.3	SPS-CT-21-175-N	SPS-CT-21-175-UV
24	24.5	0.35	0.08	8.0	SPS-CT-24-175-N	SPS-CT-24-175-UV
30	30.0	0.35	0.08	9.0	SPS-CT-30-175-N	SPS-CT-30-175-UV
32	32.0	0.35	0.08	9.6	SPS-CT-32-175-N	SPS-CT-32-175-UV
36	36.7	0.35	0.08	11.0	SPS-CT-36-175-N	SPS-CT-36-175-UV
48	48.0	0.35	0.08	15.0	SPS-CT-48-175-N	SPS-CT-48-175-UV
60	59.0	0.35	0.08	18.2	SPS-CT-60-175-N	SPS-CT-60-175-UV

Dimensions in inches unless otherwise noted  
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TITLE: EXTRA HEAVY DUTY CABLE TIES		
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Nominal or Basic Product Length (in inches)	Length	Width	Thickness	Bundle Diameter	SPS Part Number	
	Ref	Ref	Ref	Max	Natural	UV Black
9	9.0	0.50	0.09	2.2	SPS-CT-9-250-N	SPS-CT-9-250-UV
11	11.0	0.50	0.09	3.0	SPS-CT-11-250-N	SPS-CT-11-250-UV
15	14.8	0.50	0.09	4.1	SPS-CT-15-250-N	SPS-CT-15-250-UV
19	19.0	0.50	0.09	5.4	SPS-CT-19-250-N	SPS-CT-19-250-UV
21	21.6	0.50	0.09	6.3	SPS-CT-21-250-N	SPS-CT-21-250-UV
28	28.7	0.50	0.09	8.5	SPS-CT-28-250-N	SPS-CT-28-250-UV
34	34.6	0.50	0.09	10.4	SPS-CT-34-250-N	SPS-CT-34-250-UV
40	40.6	0.50	0.09	12.3	SPS-CT-40-250-N	SPS-CT-40-250-UV

### NOTES

1. Extra Heavy Duty Cable Ties
2. Tensile Strength: 250 lbs
3. Material: Nylon 6/6
4. Colors Available:
  - Natural
  - UV Black
5. Temperature Rating: -40° F to 185° F
6. Flammability Rating: UL 94-V2

Dimensions in inches unless otherwise noted  
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TITLE: <b>ULTRA HEAVY DUTY CABLE TIES</b>						
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07

# ASSEMBLIES



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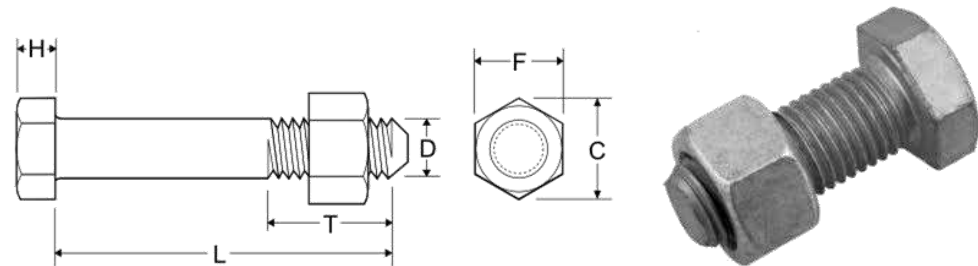
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1/2" Diameter (1/2-13UNC)				
L	T	SPS Part Number		
Length	Min. Thread Length	Import	Domestic Bolts	
			With Import Nuts	With Domestic Nuts
3/4	FT	SPS-H5012	SPS-H5012D	SPS-H5012USA
7/8	FT	SPS-H5014	SPS-H5014D	SPS-H5014USA
1	FT	SPS-H5016	SPS-H5016D	SPS-H5016USA
1-1/8	FT	SPS-H5018	SPS-H5018D	SPS-H5018USA
1-1/4	FT	SPS-H5020	SPS-H5020D	SPS-H5020USA
1-3/8	FT	SPS-H5022	SPS-H5022D	SPS-H5022USA
1-1/2	FT	SPS-H5024	SPS-H5024D	SPS-H5024USA
1-5/8	FT	SPS-H5026	SPS-H5026D	SPS-H5026USA
1-3/4	1-1/4	SPS-H5028	SPS-H5028D	SPS-H5028USA
2	1-1/4	SPS-H5032	SPS-H5032D	SPS-H5032USA
2	FT	SPS-H5032F	SPS-H5032FD	SPS-H5032FUSA
2-1/4	1-1/4	SPS-H5036	SPS-H5036D	SPS-H5036USA
2-1/4	FT	SPS-H5036F	SPS-H5036FD	SPS-H5036FUSA
2-1/2	1-1/4	SPS-H5040	SPS-H5040D	SPS-H5040USA
2-1/2	FT	SPS-H5040F	SPS-H5040FD	SPS-H5040FUSA
2-3/4	1-1/4	SPS-H5044	SPS-H5044D	SPS-H5044USA
2-3/4	FT	SPS-H5044F	SPS-H5044FD	SPS-H5044FUSA
3	1-1/4	SPS-H5048	SPS-H5048D	SPS-H5048USA
3	FT	SPS-H5048F	SPS-H5048FD	SPS-H5048FUSA
3-1/4	1-1/4	SPS-H5052	SPS-H5052D	SPS-H5052USA
3-1/2	1-1/4	SPS-H5056	SPS-H5056D	SPS-H5056USA
3-1/2	FT	SPS-H5056F	SPS-H5056FD	SPS-H5056FUSA
3-3/4	1-1/4	SPS-H5060	SPS-H5060D	SPS-H5060USA
4	1-1/4	SPS-H5064	SPS-H5064D	SPS-H5064USA
4	FT	SPS-H5064F	SPS-H5064FD	SPS-H5064FUSA
4-1/2	1-1/4	SPS-H5072	SPS-H5072D	SPS-H5072USA
4-1/2	FT	SPS-H5072F	SPS-H5072FD	SPS-H5072FUSA
5	1-1/4	SPS-H5080	SPS-H5080D	SPS-H5080USA
5	FT	SPS-H5080F	SPS-H5080FD	SPS-H5080FUSA
5-1/2	1-1/4	SPS-H5088	SPS-H5088D	SPS-H5088USA
6	1-1/4	SPS-H5096	SPS-H5096D	SPS-H5096USA
6	FT	SPS-H5096F	SPS-H5096FD	SPS-H5096FUSA
6-1/2	1-1/2	SPS-H50104	SPS-H50104D	SPS-H50104USA
7	1-1/2	SPS-H50112	SPS-H50112D	SPS-H50112USA
7	FT	SPS-H50112F	SPS-H50112FD	SPS-H50112FUSA
7-1/2	1-1/2	SPS-H50120	SPS-H50120D	SPS-H50120USA

1/2" Diameter (1/2-13UNC)				
L	T	SPS Part Number		
Length	Min. Thread Length	Import	Domestic Bolts	
			With Import Nuts	With Domestic Nuts
8	1-1/2	SPS-H50128	SPS-H50128D	SPS-H50128USA
8	6	SPS-H50128-6	SPS-H50128-6D	SPS-H50128-6USA
8	FT	SPS-H50128F	SPS-H50128FD	SPS-H50128FUSA
8-1/2	1-1/2	SPS-H50136	SPS-H50136D	SPS-H50136USA
9	1-1/2	SPS-H50144	SPS-H50144D	SPS-H50144USA
9-1/2	1-1/2	SPS-H50152	SPS-H50152D	SPS-H50152USA
10	1-1/2	SPS-H50160	SPS-H50160D	SPS-H50160USA
10	6	SPS-H50160-6	SPS-H50160-6D	SPS-H50160-6USA
10-1/2	6	SPS-H50168-6	SPS-H50168-6D	SPS-H50168-6USA
10-1/2	1-1/2	SPS-H50168	SPS-H50168D	SPS-H50168USA
11	1-1/2	SPS-H50176	SPS-H50176D	SPS-H50176USA
11	6	SPS-H50176-6	SPS-H50176-6D	SPS-H50176-6USA
11-1/2	6	SPS-H50184	SPS-H50184D	SPS-H50184USA
12	6	SPS-H50192-6	SPS-H50192-6D	SPS-H50192-6USA
12	1-1/2	SPS-H50192	SPS-H50192D	SPS-H50192USA
13	6	SPS-H50208	SPS-H50208D	SPS-H50208USA
14	6	SPS-H50224-6	SPS-H50224-6D	SPS-H50224-6USA
14	1-1/2	SPS-H50224	SPS-H50224D	SPS-H50224USA
15	6	SPS-H50240	SPS-H50240D	SPS-H50240USA
16	6	SPS-H50256-6	SPS-H50256-6D	SPS-H50256-6USA
16	1-1/2	SPS-H50256	SPS-H50256D	SPS-H50256USA
17	6	SPS-H50272	SPS-H50272D	SPS-H50272USA
18	6	SPS-H50288-6	SPS-H50288-6D	SPS-H50288-6USA
18	1-1/2	SPS-H50288	SPS-H50288D	SPS-H50288USA
20	6	SPS-H50320-6	SPS-H50320-6D	SPS-H50320-6USA
20	1-1/2	SPS-H50320	SPS-H50320D	SPS-H50320USA
22	6	SPS-H50352-6	SPS-H50352-6D	SPS-H50352-6USA
24	6	SPS-H50384-6	SPS-H50384-6D	SPS-H50384-6USA
24	1-1/2	SPS-H50384	SPS-H50384D	SPS-H50384USA
32	6	SPS-H50512	SPS-H50512D	SPS-H50512USA
36	6	SPS-H50576	SPS-H50576D	SPS-H50576USA



Nominal or Basic Product Diameter	Threads Per Inch	F			C		H		
		Width Across Flats			Width Across Corners		Head Height		
		Basic	Max	Min	Max	Min	Basic	Max	Min
1/2	13	3/4	0.750	0.725	0.866	0.826	11/32	0.364	0.302

**NOTES**

1. Hex Head Machine Bolt Dimensions to ANSI/ASME B18.2.1
2. Material: Low Carbon Steel per ASTM A307 Grade A
3. Finish: Hot Dip Galvanized to ASTM F2329
4. Assembled with (1) Hot Dip Galvanized Finished Hex Nut per ASME B18.2.2

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

**TITLE:** 1/2" HEX MACHINE BOLTS A307 HDG WITH HEX NUT



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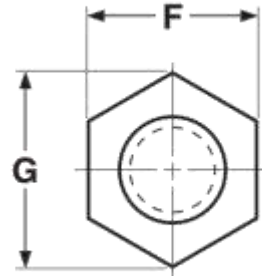
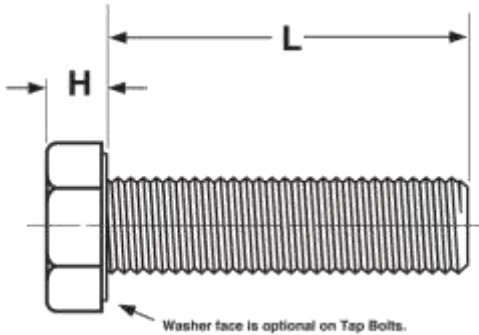
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UNDERSIDE OF HEAD



Nominal or Basic Product Diameter	F			G		H		
	Width Across Flats			Width Across Corners		Head Height		
	Basic	Max	Min	Max	Min	Basic	Max	Min
1/4	7/16	0.438	0.425	0.505	0.484	11/64	0.188	0.150
5/16	1/2	0.500	0.484	0.577	0.552	7/32	0.235	0.195
3/8	9/16	0.562	0.544	0.650	0.620	1/4	0.268	0.226
7/16	5/8	0.625	0.603	0.722	0.687	19/64	0.316	0.272
1/2	3/4	0.750	0.725	0.866	0.826	11/32	0.364	0.302
9/16	13/16	0.812	0.798	0.938	0.910	23/64	0.371	0.348
5/8	15/16	0.938	0.906	1.083	1.033	27/64	0.444	0.378
3/4	1-1/8	1.125	1.088	1.299	1.240	1/2	0.524	0.455
7/8	1-5/16	1.312	1.269	1.516	1.447	37/64	0.604	0.531
1	1-1/2	1.500	1.450	1.732	1.653	43/64	0.700	0.591
1-1/4	1-7/8	1.875	1.812	2.165	2.066	27/32	0.876	0.749

Nominal Or Basic Product Diameter	Threads Per Inch	L	SPS Part Number
		Bolt Length	
3/4	10	12	SPS-H75192F
1	8	12	SPS-H100192F

NOTES

1. Tap bolts are hex head bolts which are fully threaded
2. Dimensions to ANSI/ASME B18.2.1
  - Exception: All Lengths Regardless of Diameter are Fully Threaded
3. Material: Low Carbon Steel per ASTM A307 Grade A
4. Finish: Hot Dip Galvanized to ASTM F2329
5. Assembled with (1) Hot Dip Galvanized Finished Hex Nut per ASME B18.2.2
6. Components meet all requirements of ANSI/IEEE C135.1 and IEEE C135.80

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: HEX TAP BOLTS A307 HDG WITH HEX NUT



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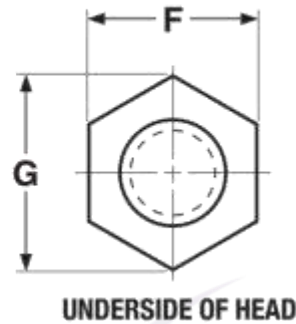
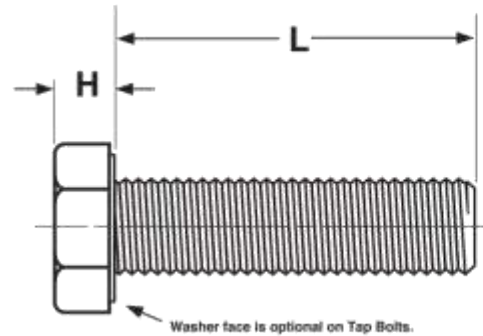
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Nominal or Basic Product Diameter	F			G		H		
	Width Across Flats			Width Across Corners		Head Height		
	Basic	Max	Min	Max	Min	Basic	Max	Min
3/8	9/16	0.562	0.544	0.650	0.620	1/4	0.268	0.226



**NOTES**

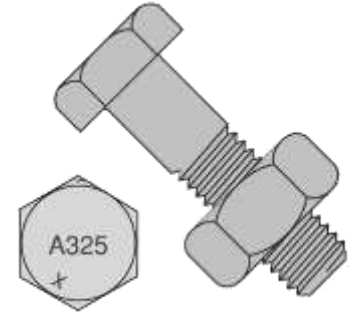
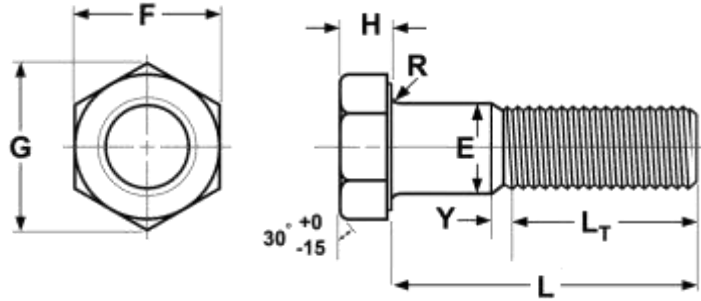
1. Tap bolts are hex head bolts which are fully threaded
2. Fully threaded hex cap screws are supplied in place of tap bolts when more readily available unless specifically excluded when quoting or ordering
3. Dimensions to IFI-199 and ANSI/ASME B18.2.1
4. Material: Medium Carbon Steel per SAE J429 Grade 5
5. Finish: Hot Dip Galvanized to ASTM F2329
6. Each bolt assembled with galvanized hardware:
  - (1) ASTM F436 Type 1 Beveled Washer
  - (1) Regular Split Lock Washer
  - (1) SAE J995 Grade 5 Finished Hex Nut
7. All components meet all the requirements of ANSI/IEEE C135.1 and IEEE C135.80

Bolt Dia.	Threads Per Inch	L Length	SPS Part Number	
			Import	Domestic
3/8	16	1-3/4	SPS-H3728F-GR5-450	SPS-H3728F-GR5-450D
3/8	16	2	SPS-H3732F-GR5-450	SPS-H3732F-GR5-450D

Dimensions in inches unless otherwise noted  
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TITLE: HEX TAP BOLT ASSEMBLY GRADE 5 HDG			
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Basic Bolt Dia.	E		F			G		H			R		Y	Tensile Strength (psi)
	Body Diameter		Width Across Flats			Width Across Corners		Head Height			Radius of Fillet		Transition Thread Length	Min
	Max	Min	Basic	Max	Min	Max	Min	Basic	Max	Min	Max	Min	Ref	
1/2	0.515	0.482	7/8	0.875	0.850	1.010	0.969	5/16	0.323	0.302	0.031	0.009	0.19	120,000

**NOTES**

1. Heavy Hex Head Structural Bolt Dimensions per ASME B18.2.6
2. Material: Medium Carbon Steel per ASTM A325 Type 1
3. Finish: Hot Dip Galvanized to ASTM F2329
4. Each bolt assembled with (1) Heavy Hex Nut ASTM A563 Grade DH or ASTM A194 Grade 2H Hot Dip Galvanized
5. Bolts in length up to 4 times the diameter can be fully threaded under ASTM A325 Type 1 Supplement S1. Bolt heads will be marked A325T instead of A325.
  - For other head styles, diameters, lengths, or thread lengths use ASTM A449 or ASTM F3125 Grade A325 Supplement S2 as appropriate.

1/2" Diameter (1/2-13UNC)				
L	L <sub>T</sub>	SPS Part Number		
Length	Min. Thread Length	Import	Domestic Bolts	
			With Import Nuts	With Domestic Nuts
1	FT	SPS-S5016-A325	SPS-S5016-A325D	SPS-S5016-A325USA
1-1/4	FT	SPS-S5020-A325	SPS-S5020-A325D	SPS-S5020-A325USA
1-1/2	1	SPS-S5024-A325	SPS-S5024-A325D	SPS-S5024-A325USA
1-3/4	1	SPS-S5028-A325	SPS-S5028-A325D	SPS-S5028-A325USA
2	1	SPS-S5032-A325	SPS-S5032-A325D	SPS-S5032-A325USA
2	FT	SPS-S5032F-A325	SPS-S5032F-A325D	SPS-S5032F-A325USA
2-1/4	1	SPS-S5036-A325	SPS-S5036-A325D	SPS-S5036-A325USA
2-1/2	1	SPS-S5040-A325	SPS-S5040-A325D	SPS-S5040-A325USA
2-3/4	1	SPS-S5044-A325	SPS-S5044-A325D	SPS-S5044-A325USA
3	1	SPS-S5048-A325	SPS-S5048-A325D	SPS-S5048-A325USA
3	FT	SPS-S5048F-A325	SPS-S5048F-A325D	SPS-S5048F-A325USA
3-1/4	1	SPS-S5052-A325	SPS-S5052-A325D	SPS-S5052-A325USA
3-1/2	1	SPS-S5056-A325	SPS-S5056-A325D	SPS-S5056-A325USA
3-3/4	1	SPS-S5060-A325	SPS-S5060-A325D	SPS-S5060-A325USA
4	1	SPS-S5064-A325	SPS-S5064-A325D	SPS-S5064-A325USA
5	1	SPS-S5080-A325	SPS-S5080-A325D	SPS-S5080-A325USA

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TITLE: 1/2" HEAVY HEX BOLT A325 HDG WITH NUT



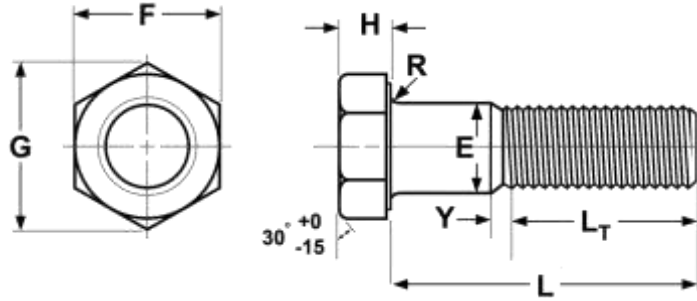
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Heavy Hex Bolt, ASME B18.2.6															
Basic Bolt Dia.	E		F			G		H			R		L <sub>T</sub>	Y	Tensile Strength (psi)
	Body Diameter		Width Across Flats			Width Across Corners		Head Height			Radius of Fillet		Thread Length	Transition Thread Length Ref.	
	Max	Min	Basic	Max	Min	Max	Min	Basic	Max	Min	Max	Min	Ref	Max	Min
1/2	0.515	0.482	7/8	0.875	0.850	1.010	0.969	5/16	0.323	0.302	0.031	0.009	1.00	0.19	120,000
5/8	0.642	0.605	1-1/16	1.062	1.031	1.227	1.175	25/64	0.403	0.378	0.062	0.021	1.25	0.22	120,000

### NOTES

1. Heavy Hex Head Structural Bolt Dimensions per ASME B18.2.6
2. Material: Medium Carbon Steel per ASTM A325 Type 1
3. Finish: Hot Dip Galvanized to ASTM F2329
4. Each bolt assembled with galvanized hardware:
  - (1) ASTM F436 Flat Washer
  - (1) Regular Split Lock Washer
  - (1) Heavy Hex Nut ASTM A563 Grade DH or ASTM A194 Grade 2H
5. All components meet all the requirements of ANSI/IEEE C135.1 and IEEE C135.80



Bolt Dia.	Threads Per Inch	L Length	SPS Part Number	
			Import	Domestic
1/2	13	2	SPS-S5032-A325-200	SPS-S5032-A325-200D
5/8	11	1-1/4	SPS-S6220-A325-200	SPS-S6220-A325-200D
5/8	11	1-1/2	SPS-S6224-A325-200	SPS-S6224-A325-200D
5/8	11	1-3/4	SPS-S6228-A325-200	SPS-S6228-A325-200D

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: A325 HDG ASSEMBLY FLAT WASHER, LOCK WASHER, NUT



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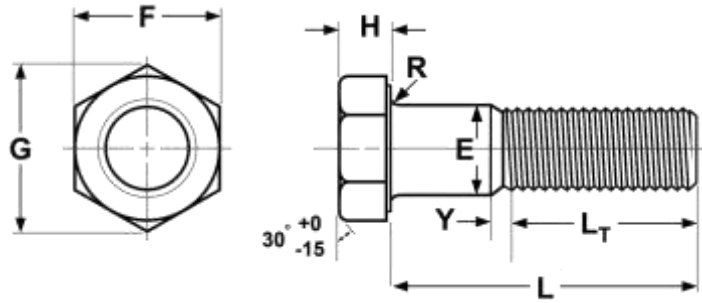
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Heavy Hex Bolt, ASME B18.2.6															
Basic Bolt Dia.	E		F			G		H			R		L <sub>T</sub>	Y	Tensile Strength (psi)
	Body Diameter		Width Across Flats			Width Across Corners		Head Height			Radius of Fillet		Thread Length	Transition Thread Length Ref.	
	Max	Min	Basic	Max	Min	Max	Min	Basic	Max	Min	Max	Min	Ref	Max	Min
5/8	0.642	0.605	1-1/16	1.062	1.031	1.227	1.175	25/64	0.403	0.378	0.062	0.021	1.25	0.22	120,000



**NOTES**

- Heavy Hex Head Structural Bolt Dimensions per ASME B18.2.6
- Material: Medium Carbon Steel per ASTM A325 Type 1
  - Bolts in length up to 4 times the diameter can be fully threaded under ASTM A325 Type 1 Supplement S1. Bolt heads will be marked A325T instead of A325.
- Finish: Hot Dip Galvanized to ASTM F2329
- Each bolt assembled with galvanized hardware:
  - (1) ASTM F436 Flat Washer
  - (1) ASTM F436 Beveled Washer
  - (1) Regular Split Lock Washer
  - (1) Heavy Hex Nut ASTM A563 Grade DH or ASTM A194 Grade 2H
- All components meet all the requirements of ANSI/IEEE C135.1 and IEEE C135.80

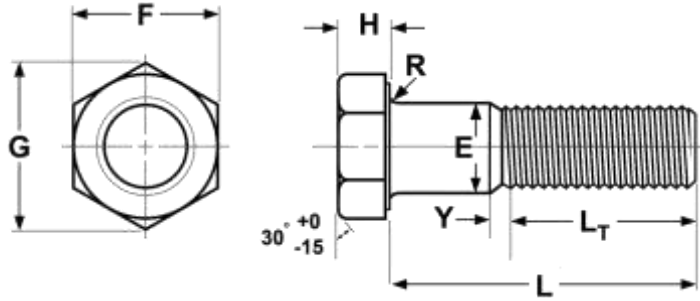
Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

Bolt Dia.	Threads Per Inch	L	L <sub>T</sub>	SPS Part Number	
		Length	Thread Length Minimum	Import	Domestic
5/8	11	3	1.25	SPS-S6248-A325-400	SPS-S6248-A325-400D
5/8	11	3-1/2	FULL THREAD	SPS-S6256F-A325-400	SPS-S6256F-A325-400D

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TITLE: A325 HDG ASSEMBLY FLAT, LOCK & BEVELED WASHER, NUT			
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**NOTES**

1. Heavy Hex Head Structural Bolt Dimensions per ASME B18.2.6, Bolts are Fully Threaded
2. Material:
  - Bolts in lengths up to 4 times the diameter:  
Medium Carbon Steel per ASTM A325 Type 1 or ASTM F3125 Grade A325 Type 1, Fully Threaded under Supplement S1
    - Heads Marked A325T
  - Bolts in lengths more than 4 times the diameter:  
Medium Carbon Steel per ASTM F3125 Grade A325 Type 1, Fully Threaded under Supplement S2 or per ASTM A449 Type 1
    - Heads Marked A325S or A449
3. Finish: Hot Dip Galvanized to ASTM F2329
4. Each bolt assembled with galvanized hardware:
  - (1) Regular Helical Spring-Lock Washer per ASME B18.21.1
  - (1) Heavy Hex Nut ASTM A563 Grade DH or ASTM A194 Grade 2H, Dimensions per ASME B18.2.6 and ASME B18.2.2

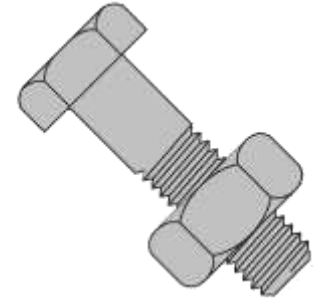
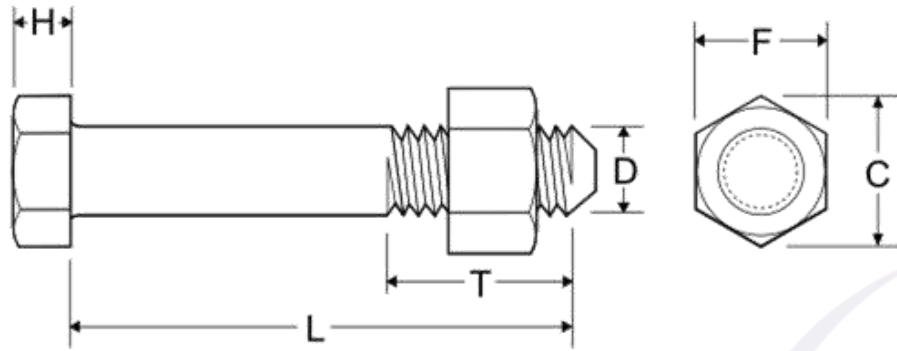
Heavy Hex Bolt, ASME B18.2.6														
Basic Bolt Dia.	E		F			G		H			R		Y	Tensile Strength (psi)
	Body Diameter		Width Across Flats			Width Across Corners		Head Height			Radius of Fillet		Transition Thread Length Ref.	
	Max	Min	Basic	Max	Min	Max	Min	Basic	Max	Min	Max	Min	Max	Min
1/2	0.515	0.482	7/8	0.875	0.850	1.010	0.969	5/16	0.323	0.302	0.031	0.009	0.19	120,000
5/8	0.642	0.605	1-1/16	1.062	1.031	1.227	1.175	25/64	0.403	0.378	0.062	0.021	0.22	120,000

Bolt Dia.	Threads Per Inch	L	L <sub>T</sub>	SPS Part Number
		Length	Thread Length Minimum	
1/2	13	2-1/2	FULL THREAD	SPS-S5040F-A325-520
5/8	11	2	FULL THREAD	SPS-S6232F-A325-520
5/8	11	3-1/2	FULL THREAD	SPS-S6256F-A325-520

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: A325 HDG ASSEMBLY FT W/LOCK WASHER & NUT			
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com	REV	DATE
		A	03/27/2023

For sizes not shown, please contact SPS Sales



**NOTES**

1. Heavy Hex Head Bolt Dimensions per ASME B18.2.1
2. Material: Medium Carbon Steel per ASTM A449 Type 1
3. Finish: Hot Dip Galvanized to ASTM F2329
4. Assembled with (1) Galvanized Heavy Hex Nut ASTM A563 Grade DH or ASTM A194 Grade 2H
5. Bolts and nuts meet all requirements of ANSI/IEEE C135.1 and IEEE C135.80

SPS Part Number	D	Threads Per Inch	F	C		H	L	T	Tensile Strength (psi)	Box Qty	Box Weight (lbs)
	Basic Bolt Dia.		Width Across Flats	Width Across Corners		Head Height	Length	Thread Length			
			Basic	Max	Min				Basic		
SPS-S75224-A449	3/4	10	1-1/4	1.443	1.383	15/32	14	6	120,000	20	18.8
SPS-S75256-A449	3/4	10	1-1/4	1.443	1.383	15/32	16	6	120,000	10	20.9
SPS-S75320-A449	3/4	10	1-1/4	1.443	1.383	15/32	20	10	120,000	10	24.3
SPS-S100256-A449	1	8	1-5/8	1.876	1.796	39/64	16	6	120,000	10	44

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: A449 HEAVY HEX BOLT W/NUT GALVANIZED



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Indianapolis, IN 46256  
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www.spsutility.com

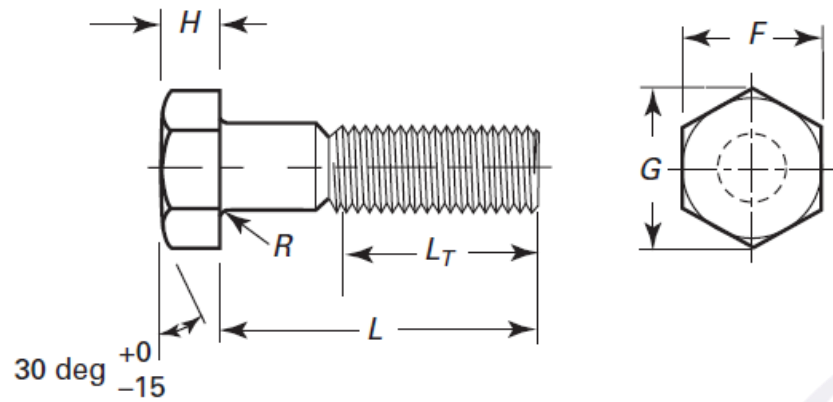
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05/02/2022

For sizes not shown, please contact SPS Sales



Basic Bolt Dia.	Threads Per Inch	F			G		H			R		L	L <sub>T</sub>	Tensile Strength (psi)
		Width Across Flats			Width Across Corners		Head Height			Radius of Fillet		Length	Thread Length	
		Basic	Max	Min	Max	Min	Basic	Max	Min	Max	Min	Nom	Min	Min
1	8	1-5/8	1.625	1.575	1.876	1.796	43/64	0.700	0.591	0.09	0.03	12	4	120,000

SPS Part Number  
Assembled Components  
SPS-S100192-A449-500

**NOTES**

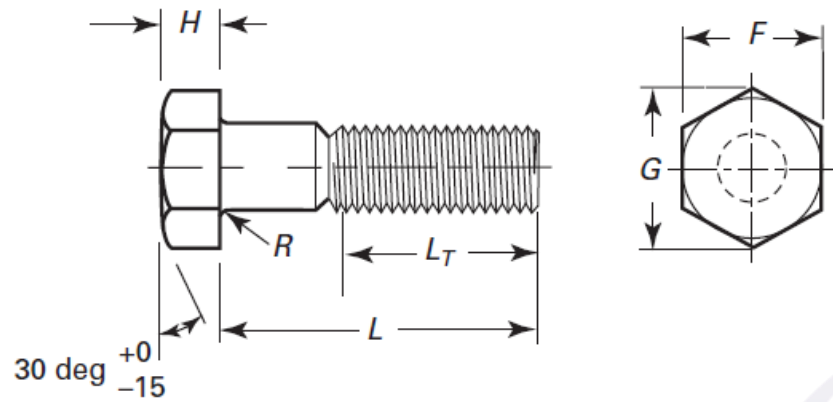
1. Heavy Hex Head Bolt Dimensions per ASME B18.2.1
2. Material: Medium Carbon Steel per ASTM A449 Type 1
3. Finish: Hot Dip Galvanized to ASTM F2329
4. Bolt Head marked "A449" and with manufacturer's symbol or identification mark
5. Bolt Assembled with:
  - (1) Heavy Hex Nut ASTM A194 Grade 2H HDG
  - (1) Regular Type Hex Lock Nut (Palnut), Design 3, 6 Notches, Galvanized

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

Component	Quantity Per Each	SPS Part Number
Bolt	1	100192BA44903
Nut	1	100N2H03
Palnut	1	10026NPO3

For sizes not shown, please contact SPS Sales

TITLE: SPS-S100192-A449-500						
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com	<table border="1" style="width: 100%;"> <tr> <th>REV</th> <th>DATE</th> </tr> <tr> <td style="text-align: center;">B</td> <td style="text-align: center;">06/30/2022</td> </tr> </table>	REV	DATE	B	06/30/2022
	REV	DATE				
B	06/30/2022					



Basic Bolt Dia.	Threads Per Inch	F			G		H			R		L	L <sub>T</sub>	Tensile Strength (psi)
		Width Across Flats			Width Across Corners		Head Height			Radius of Fillet		Length	Thread Length	
		Basic	Max	Min	Max	Min	Basic	Max	Min	Max	Min	Nom	Min	Min
1	8	1-5/8	1.625	1.575	1.876	1.796	43/64	0.700	0.591	0.09	0.03	14	6	120,000

SPS Part Number Assembled Components
SPS-S100224-A449-500

**NOTES**

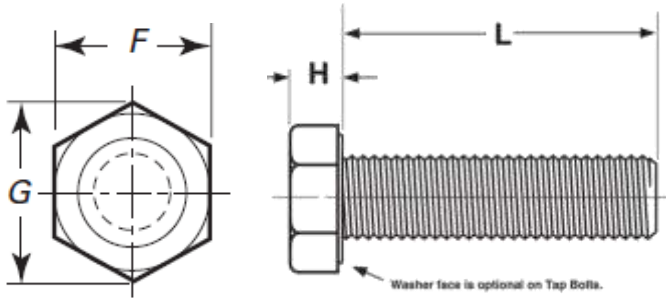
1. Heavy Hex Head Bolt Dimensions per ASME B18.2.1
2. Material: Medium Carbon Steel per ASTM A449 Type 1
3. Finish: Hot Dip Galvanized to ASTM F2329
4. Bolt Head marked "A449" and with manufacturer's symbol or identification mark
5. Bolt Assembled with:
  - (1) Heavy Hex Nut ASTM A194 Grade 2H HDG
  - (1) Regular Type Hex Lock Nut (Palnut), Design 3, 6 Notches, Galvanized

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

Component	Quantity Per Each	SPS Part Number
Bolt	1	100224BA44903
Nut	1	100N2H03
Palnut	1	10026NPO3

For sizes not shown, please contact SPS Sales

TITLE: SPS-S100224-A449-500						
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com	<table border="1"> <tr> <th>REV</th> <th>DATE</th> </tr> <tr> <td>B</td> <td>06/30/2022</td> </tr> </table>	REV	DATE	B	06/30/2022
	REV	DATE				
B	06/30/2022					



Basic Product Dia.	F			G		H		
	Width Across Flats			Width Across Corners		Head Height		
	Basic	Max	Min	Max	Min	Basic	Max	Min
1/2	3/4	0.750	0.725	0.866	0.840	5/16	0.323	0.302



Bolt Dia.	Threads Per Inch	L	SPS Part Number
		Length	
1/2	13	1	SPS-H5016SS-210
1/2	13	1-1/4	SPS-H5020SS-210
1/2	13	1-1/2	SPS-H5024SS-210
1/2	13	1-3/4	SPS-H5028SS-210
1/2	13	2	SPS-H5032FSS-210
1/2	13	2-1/4	SPS-H5036FSS-210
1/2	13	2-1/2	SPS-H5040FSS-210
1/2	13	2-3/4	SPS-H5044FSS-210
1/2	13	3	SPS-H5048FSS-210
1/2	13	3-1/2	SPS-H5056FSS-210
1/2	13	4	SPS-H5064FSS-210

### NOTES

- Hex Cap Screw per ASME B18.2.1 except all lengths are fully threaded
- Chamfered Bolt Nose
- Each bolt assembled with:
  - (2) Commercial Flat Washers
  - (1) Regular Split Lock Washer
  - (1) Finished Hex Nut
- Material (All): 18-8 Stainless Steel
  - ASTM F593 bolts and ASTM F594 nuts
- Can be supplied unassembled if requested when ordering
- Standard Pack: 50 per Box

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: 1/2" 18-8 SS FULL THREAD BOLT ASSEMBLIES



10475 Crosspoint Blvd Ste 250  
Indianapolis, IN 46256  
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www.spsutility.com

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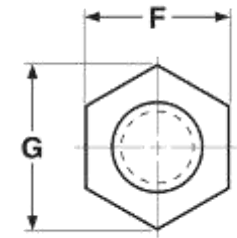
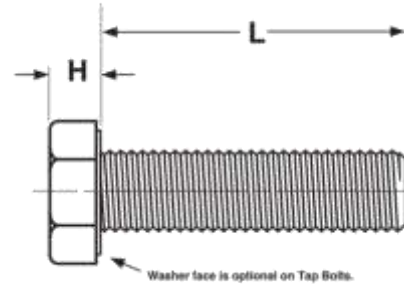
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Basic Product Dia.	F			G		H		
	Width Across Flats			Width Across Corners		Head Height		
	Basic	Max	Min	Max	Min	Basic	Max	Min
1/2	3/4	0.750	0.725	0.866	0.826	11/32	0.364	0.302



UNDERSIDE OF HEAD



Assembled Components	Quantity Per Bolt	SPS Part Number
Flat Washer 18-8 Stainless Steel	2	5020.078W188
Belleville Washer 301 Stainless Steel	1	12114-BELLE-SS
Finished Hex Nut Silicon Bronze	1	50NFSB

Bolt Size & Threads	L	SPS Part Number	
	Length	Bolt Only	Finished Assembly
1/2-13	1	5016CH188	SPS-H5016SS-660
1/2-13	1-1/4	5020CH188	SPS-H5020SS-660
1/2-13	1-1/2	5024CH188	SPS-H5024SS-660
1/2-13	1-3/4	5028CH188	SPS-H5028SS-660
1/2-13	2	5032BHT188	SPS-H5032FSS-660
1/2-13	2-1/4	5036BHT188	SPS-H5036FSS-660
1/2-13	2-1/2	5040BHT188	SPS-H5040FSS-660
1/2-13	2-3/4	5044BHT188	SPS-H5044FSS-660
1/2-13	3	5048BHT188	SPS-H5048FSS-660
1/2-13	3-1/2	5056BHT188	SPS-H5056FSS-660
1/2-13	4	5064BHT188	SPS-H5064FSS-660

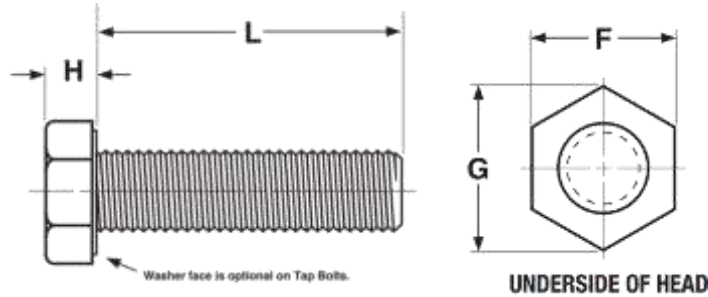
NOTES

- Hex tap bolts are fully threaded
- Fully threaded hex cap screws are supplied in place of tap bolts when more readily available unless explicitly excluded when quoting or ordering
- Dimensions to ASME B18.2.1
  - Exception: All Lengths Regardless of Diameter are Fully Threaded
- Material: 18-8 Stainless Steel
- Each Bolt Assembled With:
  - (2) Flat Washers 18-8 Stainless Steel
  - (1) Belleville Washer 301 Stainless Steel
  - (1) Finished Hex Nut Silicon Bronze

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: SS-660 ASSEMBLIES						
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com	<table border="1"> <tr> <th>REV</th> <th>DATE</th> </tr> <tr> <td>A</td> <td>08/22/2022</td> </tr> </table>	REV	DATE	A	08/22/2022
	REV	DATE				
A	08/22/2022					

For sizes not shown, please contact SPS Sales



Nominal or Basic Product Diameter	F			G		H		
	Width Across Flats			Width Across Corners		Head Height		
	Basic	Max	Min	Max	Min	Basic	Max	Min
1/4	7/16	0.438	0.428	0.505	0.488	5/32	0.163	0.150

Bolt Size & Threads	L	SPS Part Number
	Length	
1/4-20	1	SPS-H2516SB-520

Individual Component	SPS Part Number
Hex Bolt	2516CHSB
Hex Nut	25NFSB
Lock Washer	25WSSB

## NOTES

- Hex Head Cap Screw Dimensions to ANSI/ASME B18.2.1
  - Exception: All Lengths Regardless of Diameter are Fully Threaded
- Material: 651, 655, or 656 Silicon Bronze Alloy per ASTM F468 (UNS C65100, C65500 or C65600)
- Each Bolt Comes With:
  - (1) Finished Hex Nut Silicon Bronze
  - (1) Regular Split Lock Washer Silicon Bronze
- All Components Boxed Together

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: SPS-H2516SB-250



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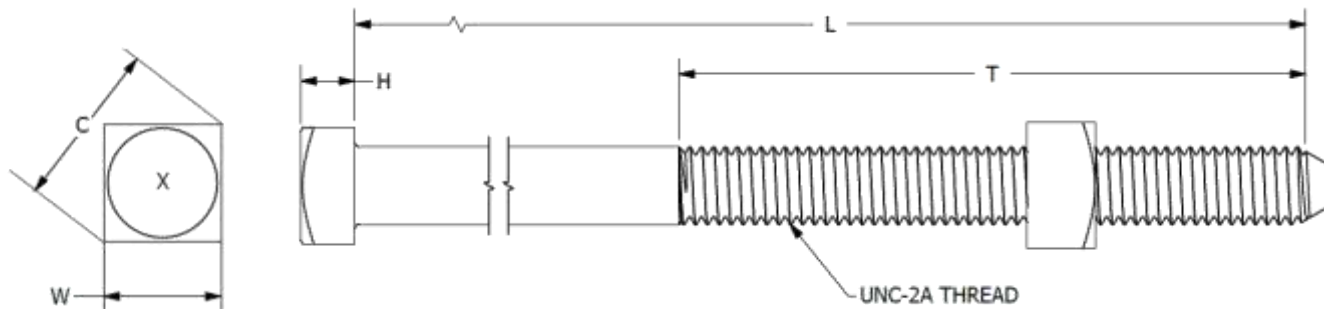
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For sizes not shown, please contact SPS Sales



Nominal Bolt Size	Threads Per Inch	W			C		H			Minimum Tensile Strength (lbf)
		Width Across Flats			Width Across Corners		Head Height			
		Basic	Max	Min	Max	Min	Basic	Max	Min	
3/8	16	9/16	0.562	0.544	0.795	0.747	1/4	0.268	0.232	4,250

L	T	SPS Part Number	
		Import	Domestic
Length	Minimum Thread Length		
1	FT	SPS-8601	SPS-8601D
1-1/2	1	SPS-8601-1/2	SPS-8601-1/2D
2	1	SPS-8602	SPS-8602D
2-1/2	1	SPS-8602-1/2	SPS-8602-1/2D
3	1	SPS-8603	SPS-8603D
3-1/2	1	SPS-8603-1/2	SPS-8603-1/2D
4	3	SPS-8604	SPS-8604D
4-1/2	3	SPS-8604-1/2	SPS-8604-1/2D
5	3	SPS-8605	SPS-8605D
5-1/2	3	SPS-8605-1/2	SPS-8605-1/2D
6	3	SPS-8606	SPS-8606D
7	3	SPS-8607	SPS-8607D
8	4	SPS-8608	SPS-8608D
10	4	SPS-8610	SPS-8610D

## NOTES

1. Square Head Machine Bolt Assembled with Regular Square Nut
2. Material: Steel Hot Dip Galvanized to ASTM A153
3. UNC Rolled Threads
4. Strength and Dimensions Per ANSI/IEEE C135.1 and IEEE C135.80
5. Bolts 1/2 in diameter and larger, 8 in length and longer, have semi-cone point ends.
  - All other sizes have chamfered or rounded ends

Dimensions in inches unless otherwise noted

All references to standards are the latest revision unless a specific revision is identified.

TITLE: 3/8" SQUARE HEAD MACHINE BOLTS LC HDG



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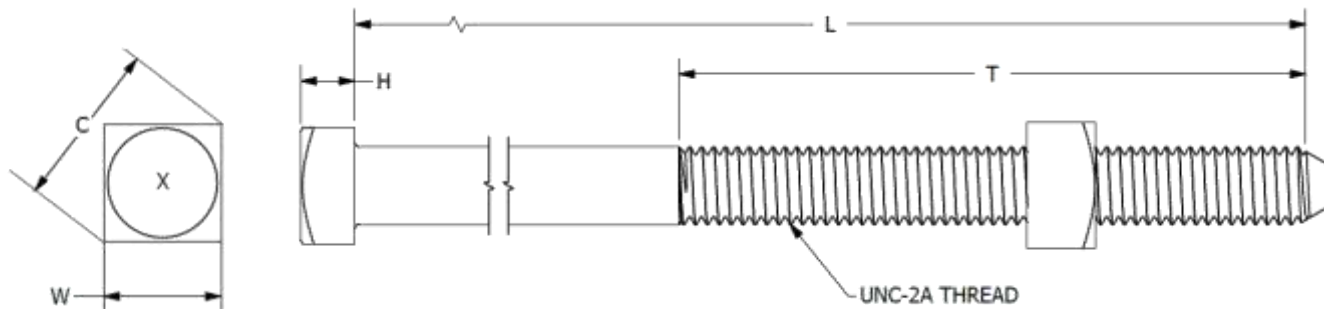
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For sizes not shown, please contact SPS Sales



Nominal Bolt Size	Threads Per Inch	W			C		H			Minimum Tensile Strength (lbf)
		Width Across Flats			Width Across Corners		Head Height			
		Basic	Max	Min	Max	Min	Basic	Max	Min	
1/2	13	3/4	0.750	0.725	1.061	0.995	21/64	0.348	0.308	7,800

L	T	SPS Part Number	
		Import	Domestic
Length	Minimum Thread Length		
1	FT	SPS-8701	SPS-8701D
1-1/4	FT	SPS-8701-1/4	SPS-8701-1/4D
1-1/2	FT	SPS-8701-1/2	SPS-8701-1/2D
1-3/4	FT	SPS-8701-3/4	SPS-8701-3/4D
2	1-1/4	SPS-8702	SPS-8702D
2-1/2	1-1/4	SPS-8702-1/2	SPS-8702-1/2D
3	1-1/4	SPS-8703	SPS-8703D
3-1/2	1-1/4	SPS-8703-1/2	SPS-8703-1/2D
4	3	SPS-8704	SPS-8704D
4-1/2	3	SPS-8704-1/2	SPS-8704-1/2D
5	3	SPS-8705	SPS-8705D
6	3	SPS-8706	SPS-8706D

L	T	SPS Part Number	
		Import	Domestic
Length	Minimum Thread Length		
7	4	SPS-8707	SPS-8707D
8	4	SPS-8708	SPS-8708D
9	4	SPS-8709	SPS-8709D
10	6	SPS-8710	SPS-8710D
12	6	SPS-8712	SPS-8712D
14	6	SPS-8714	SPS-8714D
16	6	SPS-8716	SPS-8716D
18	6	SPS-8718	SPS-8718D
20	6	SPS-8720	SPS-8720D
22	6	SPS-872200	SPS-872200D
24	6	SPS-872400	SPS-872400D

## NOTES

1. Square Head Machine Bolt Assembled with Regular Square Nut
2. Material: Steel Hot Dip Galvanized to ASTM A153
3. UNC Rolled Threads
4. Strength and Dimensions Per ANSI/IEEE C135.1 and IEEE C135.80
5. Bolts 1/2 in diameter and larger, 8 in length and longer, have semi-cone point ends.
  - All other sizes have chamfered or rounded ends

Dimensions in inches unless otherwise noted

All references to standards are the latest revision unless a specific revision is identified.

TITLE: 1/2" SQUARE HEAD MACHINE BOLTS LC HDG

For sizes not shown, please contact SPS Sales



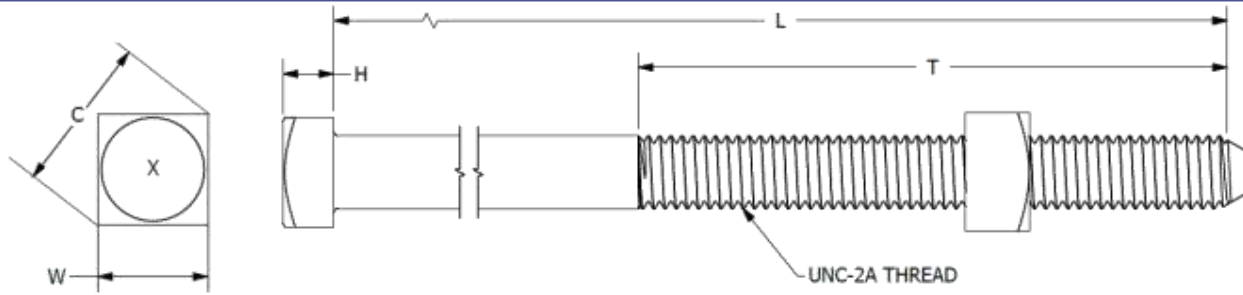
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Nominal Bolt Size	Threads Per Inch	W			C		H			Minimum Tensile Strength (lbf)
		Width Across Flats			Width Across Corners		Head Height			
		Basic	Max	Min	Max	Min	Basic	Max	Min	
5/8	11	15/16	0.938	0.906	1.326	1.244	27/64	0.444	0.400	12,400

L	T	SPS Part Number		L	T	SPS Part Number	
Length	Minimum Thread Length	Import	Domestic	Length	Minimum Thread Length	Import	Domestic
1	FT	SPS-8801	SPS-8801D	10	6	SPS-8810	SPS-8810D
1-1/4	FT	SPS-8801-1/4	SPS-8801-1/4D	12	6	SPS-8812	SPS-8812D
1-1/2	FT	SPS-8801-1/2	SPS-8801-1/2D	14	6	SPS-8814	SPS-8814D
1-3/4	FT	SPS-8801-3/4	SPS-8801-3/4D	16	6	SPS-8816	SPS-8816D
2	FT	SPS-8802	SPS-8802D	18	6	SPS-8818	SPS-8818D
2-1/2	1-1/2	SPS-8802-1/2	SPS-8802-1/2D	20	6	SPS-8820	SPS-8820D
3	1-1/2	SPS-8803	SPS-8803D	22	6	SPS-8822	SPS-8822D
3	FT	SPS-8803F	SPS-8803FD	24	6	SPS-8824	SPS-8824D
3-1/2	1-1/2	SPS-8803-1/2	SPS-8803-1/2D	26	6	SPS-8826	SPS-8826D
4	1-1/2	SPS-8804-1-1/2	SPS-8804-1-1/2D	28	6	SPS-8828	SPS-8828D
4	3	SPS-8804	SPS-8804D	30	6	SPS-8830	SPS-8830D
4-1/2	3	SPS-8804-1/2	SPS-8804-1/2D	32	6	SPS-8832	SPS-8832D
5	3	SPS-8805	SPS-8805D	34	6	SPS-8834	SPS-8834D
5-1/2	3	SPS-8805-1/2	SPS-8805-1/2D	36	6	SPS-8836	SPS-8836D
6	3	SPS-8806	SPS-8806D	38	6	SPS-8838	SPS-8838D
7	4	SPS-8807	SPS-8807D	40	6	SPS-8840	SPS-8840D
8	4	SPS-8808	SPS-8808D				
9	4	SPS-8809	SPS-8809D				

**NOTES**

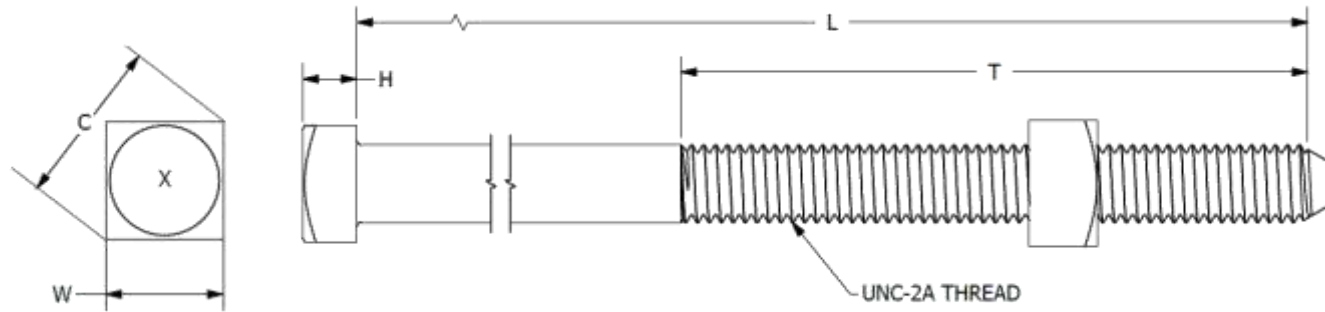
1. Square Head Machine Bolt Assembled with Regular Square Nut
2. Material: Steel Hot Dip Galvanized to ASTM A153
3. UNC Rolled Threads
4. Strength and Dimensions Per ANSI/IEEE C135.1 and IEEE C135.80
5. Bolts 1/2 in diameter and larger, 8 in length and longer, have semi-cone point ends.
  - All other sizes have chamfered or rounded ends

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

**TITLE: 5/8" SQUARE HEAD MACHINE BOLTS LC HDG**

	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com	<b>REV</b> C	<b>DATE</b> 08/04/2022
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Nominal Bolt Size	Threads Per Inch	W			C		H			Minimum Tensile Strength (lbf)
		Width Across Flats			Width Across Corners		Head Height			
		Basic	Max	Min	Max	Min	Basic	Max	Min	
3/4	10	1-1/8	1.125	1.088	1.591	1.494	1/2	0.524	0.476	18,350

### NOTES

1. Square Head Machine Bolt Assembled with Regular Square Nut
2. Material: Steel Hot Dip Galvanized to ASTM A153
3. UNC Rolled Threads
4. Strength and Dimensions Per ANSI/IEEE C135.1 and IEEE C135.80
5. Bolts 1/2 in diameter and larger, 8 in length and longer, have semi-cone point ends.
  - All other sizes have chamfered or rounded ends

Dimensions in inches unless otherwise noted

All references to standards are the latest revision unless a specific revision is identified.

L	T	SPS Part Number	
		Import	Domestic
Length	Minimum Thread Length		
2	FT	SPS-8902	SPS-8902D
2-1/2	FT	SPS-8902-1/2	SPS-8902-1/2D
3	1-3/4	SPS-8903	SPS-8903D
4	1-3/4	SPS-8904	SPS-8904D
4	2	SPS-8904-2	SPS-8904-2D
5	2	SPS-8905	SPS-8905D
6	3	SPS-8906	SPS-8906D
7	3	SPS-8907	SPS-8907D
8	4	SPS-8908	SPS-8908D
10	6	SPS-8910	SPS-8910D
12	6	SPS-8912	SPS-8912D
14	6	SPS-8914	SPS-8914D

L	T	SPS Part Number	
		Import	Domestic
Length	Minimum Thread Length		
16	6	SPS-8916	SPS-8916D
18	6	SPS-8918	SPS-8918D
20	6	SPS-8920	SPS-8920D
22	6	SPS-8922	SPS-8922D
24	6	SPS-8924	SPS-8924D
26	6	SPS-8926	SPS-8926D
28	6	SPS-8928	SPS-8928D
30	8	SPS-8930	SPS-8930D
32	8	SPS-8932	SPS-8932D
34	6	SPS-8934	SPS-8934D
36	6	SPS-8936	SPS-8936D

TITLE: 3/4" SQUARE HEAD MACHINE BOLTS LC HDG

For sizes not shown, please contact SPS Sales



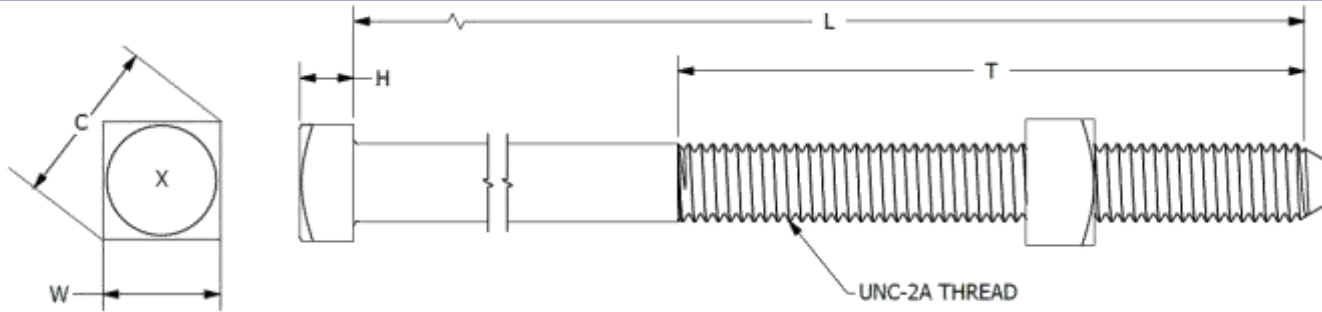
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Nominal Bolt Size	Threads Per Inch	W			C		H			Minimum Tensile Strength (lbf)
		Width Across Flats			Width Across Corners		Head Height			
		Basic	Max	Min	Max	Min	Basic	Max	Min	
7/8	9	1-5/16	1.312	1.269	1.856	1.742	19/32	0.620	0.568	25,400

L	T	SPS Part Number	
Length	Minimum Thread Length	Import	Domestic
2	FT	SPS-9052	SPS-9052D
2-1/2	FT	SPS-9052-1/2	SPS-9052-1/2D
3	2	SPS-9053	SPS-9053D
4	2	SPS-9054	SPS-9054D
5	2-1/2	SPS-9055	SPS-9055D
6	2-1/2	SPS-9056	SPS-9056D
7	3	SPS-9057	SPS-9057D
8	3	SPS-9058	SPS-9058D
10	6	SPS-9060	SPS-9060D
12	6	SPS-9062	SPS-9062D
14	6	SPS-9064	SPS-9064D
16	6	SPS-9066	SPS-9066D
18	6	SPS-9068	SPS-9068D
20	6	SPS-9070	SPS-9070D
22	6	SPS-9072	SPS-9072D

L	T	SPS Part Number	
Length	Minimum Thread Length	Import	Domestic
24	6	SPS-9074	SPS-9074D
26	6	SPS-9076	SPS-9076D
28	8	SPS-9078	SPS-9078D
30	8	SPS-9080	SPS-9080D
32	8	SPS-9082	SPS-9082D
34	6	SPS-9084	SPS-9084D
36	6	SPS-9086	SPS-9086D
38	6	SPS-9088	SPS-9088D
40	6	SPS-9090	SPS-9090D
42	6	SPS-9092	SPS-9092D
44	6	SPS-9094	SPS-9094D
46	6	SPS-9096	SPS-9096D
48	6	SPS-9098	SPS-9098D
50	6	SPS-909950	SPS-909950D

### NOTES

1. Square Head Machine Bolt Assembled with Regular Square Nut
2. Material: Steel Hot Dip Galvanized to ASTM A153
3. UNC Rolled Threads
4. Strength and Dimensions Per ANSI/IEEE C135.1 and IEEE C135.80
5. Bolts 1/2 in diameter and larger, 8 in length and longer, have semi-cone point ends.
  - All other sizes have chamfered or rounded ends

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

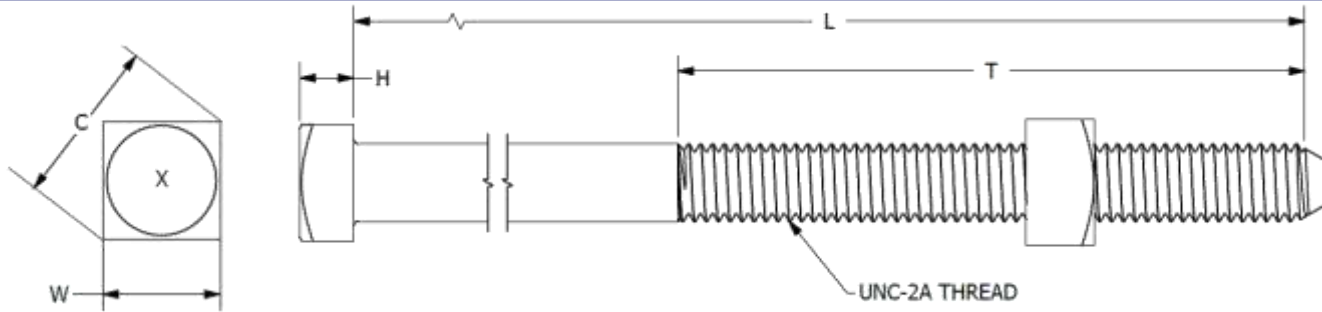
TITLE: 7/8" SQUARE HEAD MACHINE BOLTS LC HDG

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Nominal Bolt Size	Threads Per Inch	W			C		H			Minimum Tensile Strength (lbf)
		Width Across Flats			Width Across Corners		Head Height			
		Basic	Max	Min	Max	Min	Basic	Max	Min	
7/8	9	1-5/16	1.312	1.269	1.856	1.742	19/32	0.620	0.568	25,400

L	T	SPS Part Number	
Length	Minimum Thread Length	Import	Domestic
2	FT	SPS-9052	SPS-9052D
2-1/2	FT	SPS-9052-1/2	SPS-9052-1/2D
3	2	SPS-9053	SPS-9053D
4	2	SPS-9054	SPS-9054D
5	2-1/2	SPS-9055	SPS-9055D
6	2-1/2	SPS-9056	SPS-9056D
7	3	SPS-9057	SPS-9057D
8	3	SPS-9058	SPS-9058D
10	6	SPS-9060	SPS-9060D
12	6	SPS-9062	SPS-9062D
14	6	SPS-9064	SPS-9064D
16	6	SPS-9066	SPS-9066D
18	6	SPS-9068	SPS-9068D
20	6	SPS-9070	SPS-9070D
22	6	SPS-9072	SPS-9072D
24	6	SPS-9074	SPS-9074D

L	T	SPS Part Number	
Length	Minimum Thread Length	Import	Domestic
26	6	SPS-9076	SPS-9076D
26	8	SPS-9076-8	SPS-9076-8D
28	6	SPS-9078	SPS-9078D
28	8	SPS-9078-8	SPS-9078-8D
30	6	SPS-9080	SPS-9080D
30	8	SPS-9080-8	SPS-9080-8D
32	6	SPS-9082	SPS-9082D
32	8	SPS-9082-8	SPS-9082-8D
34	6	SPS-9084	SPS-9084D
36	6	SPS-9086	SPS-9086D
38	6	SPS-9088	SPS-9088D
40	6	SPS-9090	SPS-9090D
42	6	SPS-9092	SPS-9092D
44	6	SPS-9094	SPS-9094D
46	6	SPS-9096	SPS-9096D
48	6	SPS-9098	SPS-9098D
50	6	SPS-909950	SPS-909950D

For sizes not shown, please contact SPS Sales

### NOTES

1. Square Head Machine Bolt Assembled with Regular Square Nut
2. Material: Steel Hot Dip Galvanized to ASTM A153
3. UNC Rolled Threads
4. Strength and Dimensions Per ANSI/IEEE C135.1 and IEEE C135.80
5. Bolts 1/2 in diameter and larger, 8 in length and longer, have semi-cone point ends.
  - All other sizes have chamfered or rounded ends

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: 7/8" SQUARE HEAD MACHINE BOLTS LC HDG



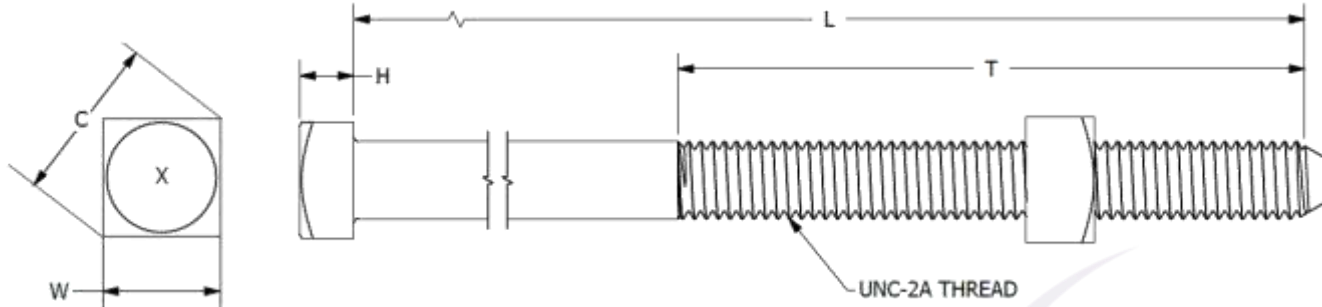
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### NOTES

1. Square Head Machine Bolt Assembled with Regular Square Nut
2. Material: Steel Hot Dip Galvanized to ASTM A153
3. UNC Rolled Threads
4. Strength and Dimensions Per ANSI/IEEE C135.1 and IEEE C135.80
5. Bolts 1/2 in diameter and larger, 8 in length and longer, have semi-cone point ends.
  - All other sizes have chamfered or rounded ends

Dimensions in inches unless otherwise noted

All references to standards are the latest revision unless a specific revision is identified.

Nominal Bolt Size	Threads Per Inch	W			C		H			Minimum Tensile Strength (lbf)
		Width Across Flats			Width Across Corners		Head Height			
		Basic	Max	Min	Max	Min	Basic	Max	Min	
1	8	1-1/2	1.500	1.450	2.121	1.991	21/32	0.684	0.628	33,500

L Length	T Min Thread Length	SPS Part Number	
		Import	Domestic
3	FT	SPS-100300	SPS-100300D
3-1/2	2-1/2	SPS-100350	SPS-100350D
4	3	SPS-100400	SPS-100400D
5	3	SPS-100500	SPS-100500D
6	3	SPS-100600	SPS-100600D
8	4	SPS-100800	SPS-100800D
10	4	SPS-101000	SPS-101000D
12	6	SPS-101200	SPS-101200D
14	6	SPS-101400	SPS-101400D
16	6	SPS-101600	SPS-101600D
18	6	SPS-101800	SPS-101800D
20	6	SPS-102000	SPS-102000D

L Length	T Min Thread Length	SPS Part Number	
		Import	Domestic
22	6	SPS-102200	SPS-102200D
24	6	SPS-102400	SPS-102400D
26	6	SPS-102600	SPS-102600D
28	6	SPS-102800	SPS-102800D
28	8	SPS-102800-8	SPS-102800-8D
30	6	SPS-103000	SPS-103000D
30	8	SPS-103000-8	SPS-103000-8D
32	6	SPS-103200	SPS-103200D
32	8	SPS-103200-8	SPS-103200-8D
34	6	SPS-103400	SPS-103400D
34	8	SPS-103400-8	SPS-103400-8D
36	6	SPS-103600	SPS-103600D

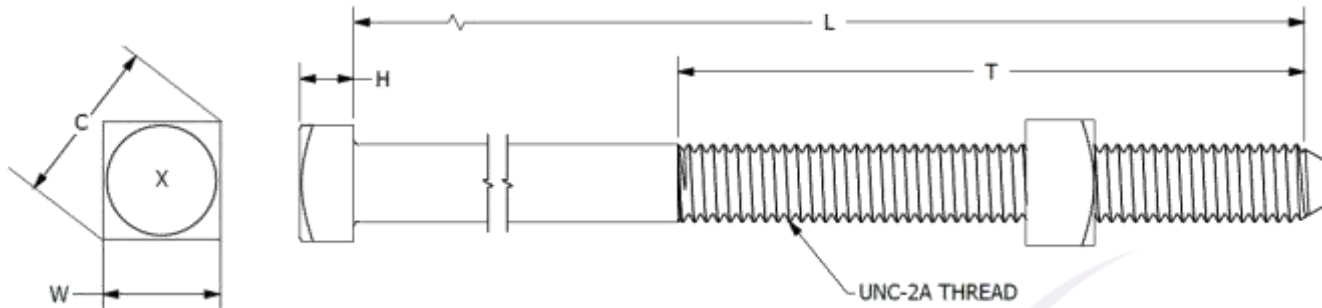
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TITLE: 1" SQUARE HEAD MACHINE BOLTS LC HDG



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## NOTES

1. Square Head Machine Bolt Assembled with Regular Square Nut
2. Material: Steel Hot Dip Galvanized to ASTM A153
3. UNC Rolled Threads
4. Strength and Dimensions Per ANSI/IEEE C135.1 and IEEE C135.80
5. Bolts 1/2 in diameter and larger, 8 in length and longer, have semi-cone point ends.
  - All other sizes have chamfered or rounded ends

Dimensions in inches unless otherwise noted

All references to standards are the latest revision unless a specific revision is identified.

Nominal Bolt Size	Threads Per Inch	W			C		H			Minimum Tensile Strength (lbf)
		Width Across Flats			Width Across Corners		Head Height			
		Basic	Max	Min	Max	Min	Basic	Max	Min	
1-1/4	7	1-7/8	1.875	1.812	2.652	2.489	27/32	0.876	0.812	36,350

L		T		SPS Part Number		L		T		SPS Part Number	
Length	Minimum Thread Length	Import	Domestic	Length	Minimum Thread Length	Import	Domestic	Length	Minimum Thread Length	Import	Domestic
3-1/2	FT	SPS-120350	SPS-120350D	14	6	SPS-121400	SPS-121400D	16	6	SPS-121600	SPS-121600D
4	2-3/4	SPS-120400	SPS-120400D	18	6	SPS-121800	SPS-121800D	20	6	SPS-122000	SPS-122000D
5	3	SPS-120500	SPS-120500D	22	6	SPS-122200	SPS-122200D	24	8	SPS-122400	SPS-122400D
6	3	SPS-120600	SPS-120600D	26	8	SPS-122600	SPS-122600D	36	6	SPS-123600	SPS-123600D
7	3	SPS-120700	SPS-120700D								
8	3	SPS-120800	SPS-120800D								
10	4	SPS-121000	SPS-121000D								
12	6	SPS-121200	SPS-121200D								

TITLE: 1-1/4" SQUARE HEAD MACHINE BOLTS LC HDG

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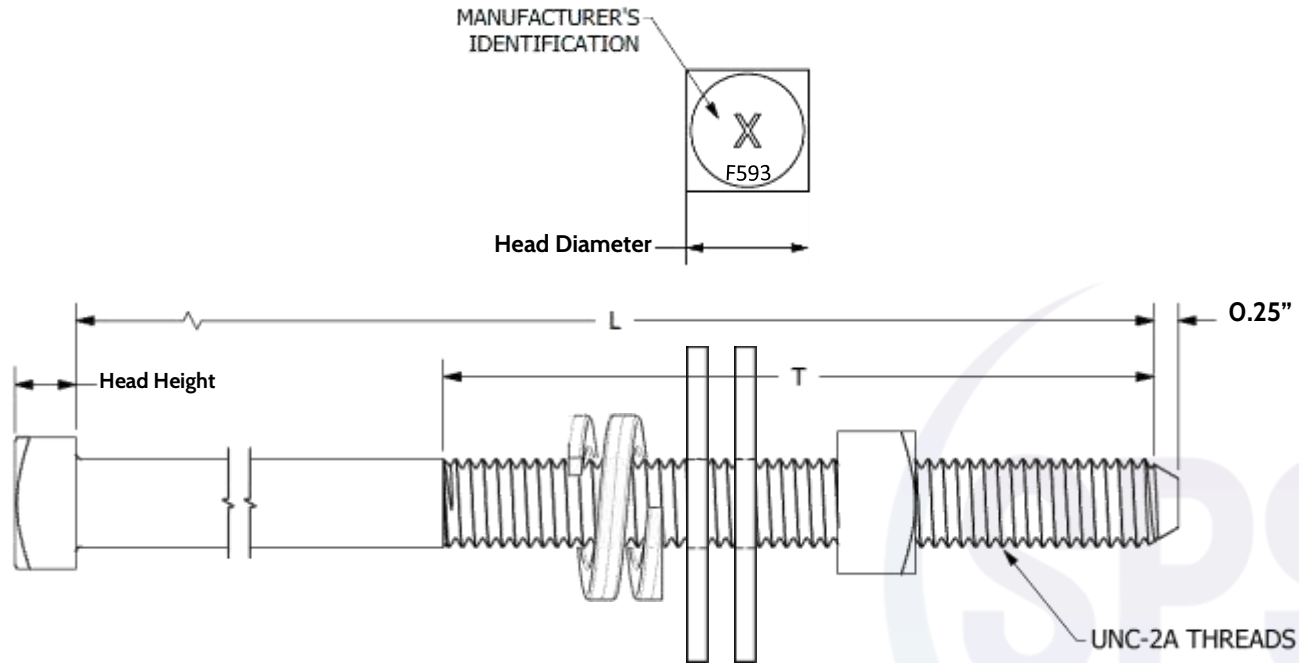
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Min. Tensile Strength	
3/8 Inch	4,250 lbs
1/2 Inch	7,800 lbs
5/8 Inch	12,400 lbs
3/4 Inch	18,350 lbs
7/8 Inch	25,400 lbs



**NOTES**

- Material:
  - All Components: 316 Stainless Steel
  - Bolts per ASTM F593 with Heads Stamped
  - Finished Hex Nuts per ASTM F594
- Strength and Dimensions Per ANSI/IEEE C135.1 and IEEE C135.80
- Assembled 316 Stainless Components:
  - 1 Regular ASTM F594 Square Nut
  - 2 Square Plate Washers 2-1/4" OD x 3/16" Thick
  - 1 Double Coil Spring Lockwasher
- USA Manufactured: Add "D" to end of SPS Part Number

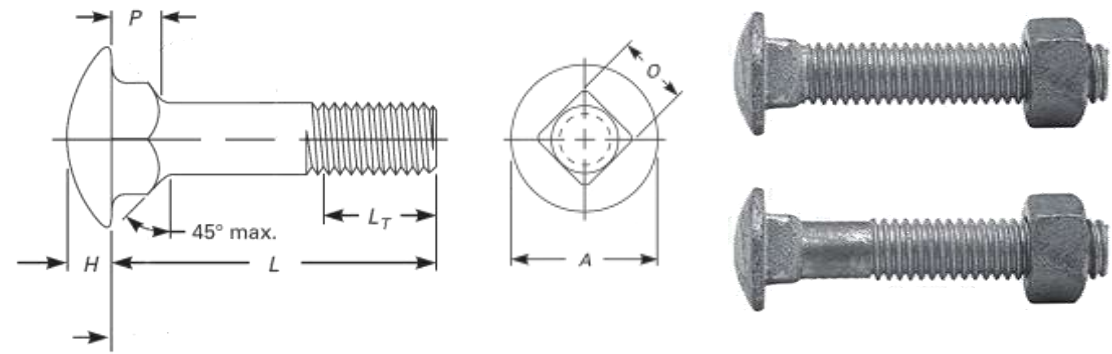
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SPS Part Number	Bolt Size	Length (L)	Thread Length Min (T)	Head Diameter	Head Height
SPS-8812-316-3	5/8-11	12	6	15/16	27/64
SPS-8814-316-3	5/8-11	14	6	15/16	27/64
SPS-8816-316-3	5/8-11	16	6	15/16	27/64
SPS-8916-316-3	3/4-10	14	6	1-1/8	1/2
SPS-8916-316-3	3/4-10	16	6	1-1/8	1/2

TITLE: SQUARE HEAD MACHINE BOLT 316 SS ASSEMBLY			
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Basic Bolt Diameter	A		H		O		P		Tensile Strength Pounds-force (lbf)
	Head Diameter		Head Height		Square Width		Square Depth		
	Max	Min	Max	Min	Max	Min	Max	Min	Min
1/4	0.594	0.563	0.145	0.125	0.260	0.245	0.156	0.125	1,900
5/16	0.719	0.688	0.176	0.156	0.324	0.307	0.187	0.156	3,140
3/8	0.844	0.782	0.208	0.188	0.388	0.368	0.219	0.188	4,250
1/2	1.094	1.032	0.270	0.250	0.515	0.492	0.281	0.250	7,800
5/8	1.344	1.219	0.344	0.313	0.642	0.616	0.344	0.313	12,400
3/4	1.594	1.469	0.406	0.375	0.768	0.741	0.406	0.375	18,350



1/4" Diameter (1/4-20UNC)		
L	L <sub>T</sub>	SPS Part Number
Length	Min. Thread Length	
5/8	FT	SPS-C2510
3/4	FT	SPS-C2512
1	FT	SPS-C2516
1-1/4	FT	SPS-C2520
1-1/2	FT	SPS-C2524
1-3/4	FT	SPS-C2528
2	FT	SPS-C2532
2-1/4	FT	SPS-C2536
2-1/2	FT	SPS-C2540
2-3/4	FT	SPS-C2544
3	FT	SPS-C2548
3-1/2	FT	SPS-C2556
4	FT	SPS-C2564
4-1/2	FT	SPS-C2572
5	FT	SPS-C2580
5-1/2	FT	SPS-C2588
6	FT	SPS-C2596
6-1/2	6	SPS-C25104
7	6	SPS-C25112
8	6	SPS-C25128

5/16" Diameter (5/16-18UNC)		
L	L <sub>T</sub>	SPS Part Number
Length	Min. Thread Length	
3/4	FT	SPS-C3112
1	FT	SPS-C3116
1-1/4	FT	SPS-C3120
1-1/2	FT	SPS-C3124
1-3/4	FT	SPS-C3128
2	FT	SPS-C3132
2-1/4	FT	SPS-C3136
2-1/2	FT	SPS-C3140
2-3/4	FT	SPS-C3144
3	FT	SPS-C3148
3-1/2	FT	SPS-C3156
4	FT	SPS-C3164
4-1/2	FT	SPS-C3172
5	FT	SPS-C3180
5-1/2	FT	SPS-C3188
6	FT	SPS-C3196
6-1/2	6	SPS-C31104
7	6	SPS-C31112
7-1/2	6	SPS-C31120
8	6	SPS-C31128

3/8" Diameter (3/8-16UNC)		
L	L <sub>T</sub>	SPS Part Number
Length	Min. Thread Length	
3/4	FT	SPS-8633/4
1	FT	SPS-8631
1-1/4	FT	SPS-8631-1/4
1-1/2	FT	SPS-8631-1/2
1-3/4	FT	SPS-8631-3/4
2	FT	SPS-8632
2-1/4	FT	SPS-8632-1/4
2-1/2	FT	SPS-8632-1/2
2-3/4	FT	SPS-8632-3/4
3	FT	SPS-8633
3-1/2	FT	SPS-8633-1/2
4	3	SPS-8634-3
4	FT	SPS-8634
4-1/2	3	SPS-8634-1/2
5	3	SPS-8635
5-1/2	3	SPS-8635-1/2
6	2	SPS-8636-2
6	3	SPS-8636
7	3	SPS-8637
8	4	SPS-8638
9	4	SPS-8639
10	4	SPS-8640
11	4	SPS-86311
12	4	SPS-86312
14	4	SPS-86314

**NOTES**

1. Round Head Square Neck Carriage Bolt  
Dimensions per ASME B18.5 with UNC Rolled threads
2. Regular Square Nut Dimensions per ANSI/ASME B18.2.2 Assembled
3. Material: Low Carbon Steel
4. Finish: Hot Dip Galvanized to ASTM F2329
5. Bolts 1/4" diameter and larger have manufacturer's head marking on top
6. Bolts and nuts meet all requirements of ANSI/IEEE C135.1 and IEEE C135.80

Dimensions in inches unless otherwise noted  
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TITLE: 1/4" TO 3/8" CARRIAGE BOLT W/SQUARE NUT HDG



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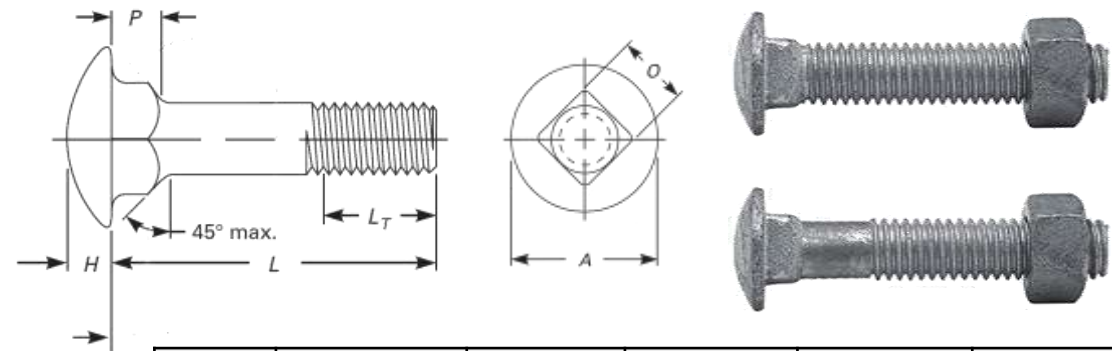
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For sizes not shown, please contact SPS Sales

1/2" Diameter (1/2-13UNC)		
L	L <sub>T</sub>	SPS Part Number
Length	Min. Thread Length	
1	FT	SPS-8641
1-1/4	FT	SPS-8641-1/4
1-1/2	FT	SPS-8641-1/2
1-3/4	FT	SPS-8641-3/4
2	FT	SPS-8642
2-1/4	FT	SPS-8642-1/4
2-1/2	FT	SPS-8642-1/2
3	FT	SPS-8643
3-1/2	FT	SPS-8643-1/2
4	FT	SPS-8644
4-1/2	3	SPS-8644-1/2
4-3/4	3	SPS-8644-3/4
5	3	SPS-8645
5-1/2	3	SPS-8645-1/2
6	3	SPS-8646
6-1/2	6	SPS-8646-1/2
7	4	SPS-8647
7-1/2	6	SPS-8647-1/2
8	4	SPS-8648
8-1/2	6	SPS-8648-1/2
9	6	SPS-8649
9-1/2	6	SPS-8649-1/2
10	6	SPS-86410
10-1/2	6	SPS-86410-1/2
11	6	SPS-86411
12	6	SPS-86412
12	FT	SPS-86412-FT
13	6	SPS-86413
14	6	SPS-86414
15	6	SPS-86415
16	6	SPS-86416
18	6	SPS-86418
20	6	SPS-86420
22	6	SPS-86422
24	6	SPS-86424

5/8" Diameter (5/8-11UNC)		
L	L <sub>T</sub>	SPS Part Number
Length	Min. Thread Length	
1-1/2	FT	SPS-C6224
2	FT	SPS-C6232
2-1/2	FT	SPS-C6240
3	FT	SPS-C6248
3-1/2	FT	SPS-C6256
4	FT	SPS-C6264
4-1/2	FT	SPS-C6272
5	FT	SPS-C6280
5-1/2	FT	SPS-C6288
6	FT	SPS-C6296
6-1/2	6	SPS-C62104
7	6	SPS-C62112
7-1/2	6	SPS-C62120
8	6	SPS-C62128
9	6	SPS-C62144
10	6	SPS-C62160
11	6	SPS-C62176
12	6	SPS-C62192
13	6	SPS-C62208
14	6	SPS-C62224
15	6	SPS-C62240
16	6	SPS-C62256
18	6	SPS-C62288
20	6	SPS-C62320
22	6	SPS-C62352
24	6	SPS-C62384

3/4" Diameter (3/4-10UNC)		
L	L <sub>T</sub>	SPS Part Number
Length	Min. Thread Length	
2	FT	SPS-C7532
2-1/2	FT	SPS-C7540
3	FT	SPS-C7548
3-1/2	FT	SPS-C7556
4	FT	SPS-C7564
4-1/2	FT	SPS-C7572
5	FT	SPS-C7580
5-1/2	FT	SPS-C7588
6	FT	SPS-C7596
7	6	SPS-C75112
8	6	SPS-C75128
9	6	SPS-C75144
10	6	SPS-C75160
11	6	SPS-C75176
12	6	SPS-C75192
13	6	SPS-C75208
14	6	SPS-C75224
15	6	SPS-C75240
16	6	SPS-C75256
18	6	SPS-C75288
20	6	SPS-C75320
22	6	SPS-C75352
24	6	SPS-C75384



Basic Bolt Diameter	A		H		O		P		Tensile Strength Pounds-force (lbf)
	Head Diameter		Head Height		Square Width		Square Depth		
	Max	Min	Max	Min	Max	Min	Max	Min	
1/4	0.594	0.563	0.145	0.125	0.260	0.245	0.156	0.125	1,900
5/16	0.719	0.688	0.176	0.156	0.324	0.307	0.187	0.156	3,140
3/8	0.844	0.782	0.208	0.188	0.388	0.368	0.219	0.188	4,250
1/2	1.094	1.032	0.270	0.250	0.515	0.492	0.281	0.250	7,800
5/8	1.344	1.219	0.344	0.313	0.642	0.616	0.344	0.313	12,400
3/4	1.594	1.469	0.406	0.375	0.768	0.741	0.406	0.375	18,350

**NOTES**

1. Round Head Square Neck Carriage Bolt Dimensions per ASME B18.5 with UNC Rolled threads
2. Regular Square Nut Dimensions per ANSI/ASME B18.2.2 Assembled
3. Material: Low Carbon Steel
4. Finish: Hot Dip Galvanized to ASTM F2329
5. Bolts 1/4" diameter and larger have manufacturer's head marking on top
6. Bolts and nuts meet all requirements of ANSI/IEEE C135.1 and IEEE C135.80

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: 1/2" TO 3/4" CARRIAGE BOLT W/SQUARE NUT HDG



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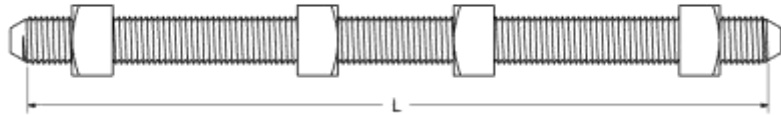
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For sizes not shown, please contact SPS Sales



3/8" Diameter (3/8-16 UNC)	
L	SPS PN
8	SPS-DA370800

1/2" Diameter (1/2-13 UNC)	
L	SPS PN
6	SPS-DA500600
8	SPS-DA500800
10	SPS-DA501000
12	SPS-DA501200
14	SPS-DA501400
16	SPS-DA501600
18	SPS-DA501800
20	SPS-DA502000
22	SPS-DA502200
24	SPS-DA502400
60	SPS-DA506000

5/8" Diameter (5/8-11 UNC)	
L	SPS PN
10	SPS-8860
12	SPS-8862
14	SPS-8864
16	SPS-8866
18	SPS-8868
20	SPS-8870
22	SPS-8872
24	SPS-8874
26	SPS-8876
28	SPS-8877
30	SPS-8878
32	SPS-8879
34	SPS-8880
36	SPS-8881
38	SPS-887938
40	SPS-887940
42	SPS-887942
44	SPS-887944
46	SPS-887946
48	SPS-887948
60	SPS-887960
72	SPS-887972
84	SPS-887984

3/4" Diameter (3/4-10 UNC)	
L	SPS PN
6	SPS-8882.06
7	SPS-8882.07
8	SPS-8882.08
10	SPS-8883
12	SPS-8882
14	SPS-8884
16	SPS-8886
18	SPS-8888
20	SPS-8890
22	SPS-8892
24	SPS-8894
26	SPS-8896
28	SPS-8897
30	SPS-8898
32	SPS-8899
34	SPS-9003
36	SPS-9004
38	SPS-889838
40	SPS-889840
42	SPS-889842
44	SPS-889844
46	SPS-889846
48	SPS-889848
50	SPS-889850
60	SPS-889860
72	SPS-889872

7/8" Diameter (7/8-9 UNC)	
L	SPS PN
8	SPS-9108
10	SPS-9110
12	SPS-9112
14	SPS-9114
16	SPS-9116
18	SPS-9118
20	SPS-9120
22	SPS-9122
24	SPS-9124
26	SPS-9126
28	SPS-9128
30	SPS-9130
32	SPS-9132
34	SPS-9134
36	SPS-9136
38	SPS-9138
40	SPS-9140
42	SPS-9142
44	SPS-914400
46	SPS-914600
48	SPS-914800
50	SPS-915000
52	SPS-915200
54	SPS-915400
56	SPS-915600
58	SPS-915800
60	SPS-916000
62	SPS-916200
64	SPS-916400
66	SPS-916600
68	SPS-916800
70	SPS-917000
72	SPS-917200
84	SPS-918400

1" Diameter (1-8 UNC)	
L	SPS PN
12	SPS-DA101200
14	SPS-DA101400
16	SPS-DA101600
18	SPS-DA101800
20	SPS-DA102000
22	SPS-DA102200
24	SPS-DA102400
26	SPS-DA102600
28	SPS-DA102800
30	SPS-DA103000
32	SPS-DA103200
34	SPS-DA103400
36	SPS-DA103600
38	SPS-DA103800
40	SPS-DA104000
42	SPS-DA104200
44	SPS-DA104400
46	SPS-DA104600
48	SPS-DA104800
52	SPS-DA105200
60	SPS-DA106000

1-1/4" Diameter (1-1/4-7 UNC)	
L	SPS PN
12	SPS-DA121200
14	SPS-DA121400
16	SPS-DA121600
18	SPS-DA121800
20	SPS-DA122000
22	SPS-DA122200
24	SPS-DA122400
26	SPS-DA122600
28	SPS-DA122800
30	SPS-DA123000
32	SPS-DA123200
34	SPS-DA123400
36	SPS-DA123600
38	SPS-DA123800
40	SPS-DA124000
42	SPS-DA124200
44	SPS-DA124400
46	SPS-DA124600
48	SPS-DA124800
60	SPS-DA126000

Min. Tensile Strength	
Bolt Diameter	Pounds-force
3/8	4,250
1/2	7,800
5/8	12,400
3/4	18,350
7/8	25,400
1	33,500
1-1/4	36,350



**NOTES**

1. Material: Steel Hot Dip Galvanized per ASTM A153
2. UNC Rolled Threads
3. DA Bolts 1/2" diameter and larger in lengths 8 in and longer have semi-cone point ends.
  - All other sizes have chamfered or rounded ends
4. Fully Threaded and Assembled with (4) Galvanized Regular Square Nuts
5. Bolt and Nut Assembly meets requirements of ANSI/IEEE C135.1 and IEEE C135.80

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

**TITLE: DOUBLE ARMING BOLTS HDG**

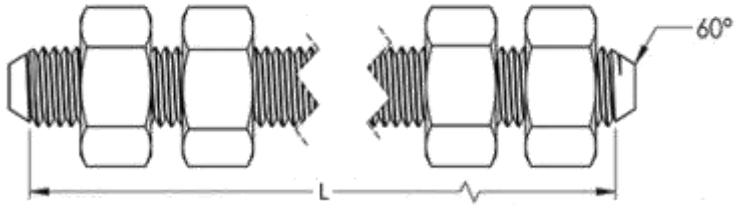


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3/8" Diameter (3/8-16 UNC)	
L	SPS PN
8	SPS-DA370800-B7

1/2" Diameter (1/2-13 UNC)	
L	SPS PN
6	SPS-DA500600-B7
8	SPS-DA500800-B7
10	SPS-DA501000-B7
12	SPS-DA501200-B7
14	SPS-DA501400-B7
16	SPS-DA501600-B7
18	SPS-DA501800-B7
20	SPS-DA502000-B7
22	SPS-DA502200-B7
24	SPS-DA502400-B7
60	SPS-DA506000-B7

5/8" Diameter (5/8-11 UNC)	
L	SPS PN
10	SPS-8860-B7
12	SPS-8862-B7
14	SPS-8864-B7
16	SPS-8866-B7
18	SPS-8868-B7
20	SPS-8870-B7
22	SPS-8872-B7
24	SPS-8874-B7
26	SPS-8876-B7
28	SPS-8877-B7
30	SPS-8878-B7
32	SPS-8879-B7
34	SPS-8880-B7
36	SPS-8881-B7
38	SPS-887938-B7
40	SPS-887940-B7
42	SPS-887942-B7
44	SPS-887944-B7
46	SPS-887946-B7
48	SPS-887948-B7
60	SPS-887960-B7
72	SPS-887972-B7
84	SPS-887984-B7

3/4" Diameter (3/4-10 UNC)	
L	SPS PN
6	SPS-8882.06-B7
7	SPS-8882.07-B7
8	SPS-8882.08-B7
10	SPS-8883-B7
12	SPS-8882-B7
14	SPS-8884-B7
16	SPS-8886-B7
18	SPS-8888-B7
20	SPS-8890-B7
22	SPS-8892-B7
24	SPS-8894-B7
26	SPS-8896-B7
28	SPS-8897-B7
30	SPS-8898-B7
32	SPS-8899-B7
34	SPS-9003-B7
36	SPS-9004-B7
38	SPS-889838-B7
40	SPS-889840-B7
42	SPS-889842-B7
44	SPS-889844-B7
46	SPS-889846-B7
48	SPS-889848-B7
50	SPS-889850-B7
60	SPS-889860-B7
72	SPS-889872-B7

7/8" Diameter (7/8-9 UNC)	
L	SPS PN
8	SPS-9108-B7
10	SPS-9110-B7
12	SPS-9112-B7
14	SPS-9114-B7
16	SPS-9116-B7
18	SPS-9118-B7
20	SPS-9120-B7
22	SPS-9122-B7
24	SPS-9124-B7
26	SPS-9126-B7
28	SPS-9128-B7
30	SPS-9130-B7
32	SPS-9132-B7
34	SPS-9134-B7
36	SPS-9136-B7
38	SPS-9138-B7
40	SPS-9140-B7
42	SPS-9142-B7
44	SPS-914400-B7
46	SPS-914600-B7
48	SPS-914800-B7
50	SPS-915000-B7
52	SPS-915200-B7
54	SPS-915400-B7
56	SPS-915600-B7
58	SPS-915800-B7
60	SPS-916000-B7
62	SPS-916200-B7
64	SPS-916400-B7
66	SPS-916600-B7
68	SPS-916800-B7
70	SPS-917000-B7
72	SPS-917200-B7
84	SPS-918400-B7

1" Diameter (1-8 UNC)	
L	SPS PN
12	SPS-DA101200-B7
14	SPS-DA101400-B7
16	SPS-DA101600-B7
18	SPS-DA101800-B7
20	SPS-DA102000-B7
22	SPS-DA102200-B7
24	SPS-DA102400-B7
26	SPS-DA102600-B7
28	SPS-DA102800-B7
30	SPS-DA103000-B7
32	SPS-DA103200-B7
34	SPS-DA103400-B7
36	SPS-DA103600-B7
38	SPS-DA103800-B7
40	SPS-DA104000-B7
42	SPS-DA104200-B7
44	SPS-DA104400-B7
46	SPS-DA104600-B7
48	SPS-DA104800-B7
60	SPS-DA106000-B7

1-1/4" Diameter (1-1/4-7 UNC)	
L	SPS PN
12	SPS-DA121200-B7
14	SPS-DA121400-B7
16	SPS-DA121600-B7
18	SPS-DA121800-B7
20	SPS-DA122000-B7
22	SPS-DA122200-B7
24	SPS-DA122400-B7
26	SPS-DA122600-B7
28	SPS-DA122800-B7
30	SPS-DA123000-B7
32	SPS-DA123200-B7
34	SPS-DA123400-B7
36	SPS-DA123600-B7
38	SPS-DA123800-B7
40	SPS-DA124000-B7
42	SPS-DA124200-B7
44	SPS-DA124400-B7
46	SPS-DA124600-B7
48	SPS-DA124800-B7
60	SPS-DA126000-B7

Min. Tensile Strength	
Bolt Diameter	Pounds-force
3/8	9,686
1/2	17,737
5/8	28,250
3/4	41,700
7/8	57,700
1	75,750
1-1/4	121,125



**NOTES**

1. Material: Alloy Steel per ASTM A193 Grade B7
2. Finish: Hot Dip Galvanized per ASTM A153
3. UNC Rolled Threads
4. DA Bolts 1/2" diameter and larger in lengths 8 in and longer have semi-cone point ends.
  - All other sizes have chamfered or rounded ends
5. Fully Threaded and Assembled with (4) Heavy Hex Nuts per ASTM A194 Grade 2H Hot Dip Galvanized
6. Bolt and Nut Assembly meets requirements of ANSI/IEEE C135.1 and IEEE C135.80

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

**TITLE: B7 DOUBLE ARMING BOLTS HDG**

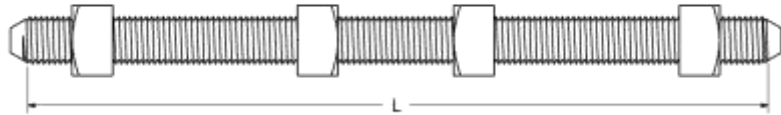


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3/8" Diameter (3/8-16 UNC)	
L	SPS PN
8	SPS-DA370800-316

1/2" Diameter (1/2-13 UNC)	
L	SPS PN
6	SPS-DA500600-316
8	SPS-DA500800-316
10	SPS-DA501000-316
12	SPS-DA501200-316
14	SPS-DA501400-316
16	SPS-DA501600-316
18	SPS-DA501800-316
20	SPS-DA502000-316
22	SPS-DA502200-316
24	SPS-DA502400-316
60	SPS-DA506000-316

5/8" Diameter (5/8-11 UNC)	
L	SPS PN
10	SPS-8860-316
12	SPS-8862-316
14	SPS-8864-316
16	SPS-8866-316
18	SPS-8868-316
20	SPS-8870-316
22	SPS-8872-316
24	SPS-8874-316
26	SPS-8876-316
28	SPS-8877-316
30	SPS-8878-316
32	SPS-8879-316
34	SPS-8880-316
36	SPS-8881-316
38	SPS-887938-316
40	SPS-887940-316
42	SPS-887942-316
44	SPS-887944-316
46	SPS-887946-316
48	SPS-887948-316
60	SPS-887960-316
72	SPS-887972-316
84	SPS-887984-316

3/4" Diameter (3/4-10 UNC)	
L	SPS PN
6	SPS-8882.06-316
7	SPS-8882.07-316
8	SPS-8882.08-316
10	SPS-8883-316
12	SPS-8882-316
14	SPS-8884-316
16	SPS-8886-316
18	SPS-8888-316
20	SPS-8890-316
22	SPS-8892-316
24	SPS-8894-316
26	SPS-8896-316
28	SPS-8897-316
30	SPS-8898-316
32	SPS-8899-316
34	SPS-9003-316
36	SPS-9004-316
38	SPS-889838-316
40	SPS-889840-316
42	SPS-889842-316
44	SPS-889844-316
46	SPS-889846-316
48	SPS-889848-316
50	SPS-889850-316
60	SPS-889860-316
72	SPS-889872-316

7/8" Diameter (7/8-9 UNC)	
L	SPS PN
8	SPS-9108-316
10	SPS-9110-316
12	SPS-9112-316
14	SPS-9114-316
16	SPS-9116-316
18	SPS-9118-316
20	SPS-9120-316
22	SPS-9122-316
24	SPS-9124-316
26	SPS-9126-316
28	SPS-9128-316
30	SPS-9130-316
32	SPS-9132-316
34	SPS-9134-316
36	SPS-9136-316
38	SPS-9138-316
40	SPS-9140-316
42	SPS-9142-316
44	SPS-914400-316
46	SPS-914600-316
48	SPS-914800-316
50	SPS-915000-316
52	SPS-915200-316
54	SPS-915400-316
56	SPS-915600-316
58	SPS-915800-316
60	SPS-916000-316
62	SPS-916200-316
64	SPS-916400-316
66	SPS-916600-316
68	SPS-916800-316
70	SPS-917000-316
72	SPS-917200-316
84	SPS-918400-316

1" Diameter (1-8 UNC)	
L	SPS PN
12	SPS-DA101200-316
14	SPS-DA101400-316
16	SPS-DA101600-316
18	SPS-DA101800-316
20	SPS-DA102000-316
22	SPS-DA102200-316
24	SPS-DA102400-316
26	SPS-DA102600-316
28	SPS-DA102800-316
30	SPS-DA103000-316
32	SPS-DA103200-316
34	SPS-DA103400-316
36	SPS-DA103600-316
38	SPS-DA103800-316
40	SPS-DA104000-316
42	SPS-DA104200-316
44	SPS-DA104400-316
46	SPS-DA104600-316
48	SPS-DA104800-316
60	SPS-DA106000-316

1-1/4" Diameter (1-1/4-7 UNC)	
L	SPS PN
12	SPS-DA121200-316
14	SPS-DA121400-316
16	SPS-DA121600-316
18	SPS-DA121800-316
20	SPS-DA122000-316
22	SPS-DA122200-316
24	SPS-DA122400-316
26	SPS-DA122600-316
28	SPS-DA122800-316
30	SPS-DA123000-316
32	SPS-DA123200-316
34	SPS-DA123400-316
36	SPS-DA123600-316
38	SPS-DA123800-316
40	SPS-DA124000-316
42	SPS-DA124200-316
44	SPS-DA124400-316
46	SPS-DA124600-316
48	SPS-DA124800-316
60	SPS-DA126000-316

Min. Tensile Strength	
Bolt Diameter	Pounds-force (lbf)
3/8	4,250
1/2	7,800
5/8	12,400
3/4	18,350
7/8	25,400
1	33,500
1-1/4	36,350



**NOTES**

1. Material: 316 Stainless Steel
2. UNC Rolled Threads
3. DA Bolts 1/2" diameter and larger in lengths 8 in and longer have semi-cone point ends.
  - All other sizes have chamfered or rounded ends
4. Fully Threaded and Assembled with (4) Regular Square Nuts 316 Stainless Steel
5. Bolt and Nut Assembly meets requirements of ANSI/IEEE C135.1 and IEEE C135.80

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

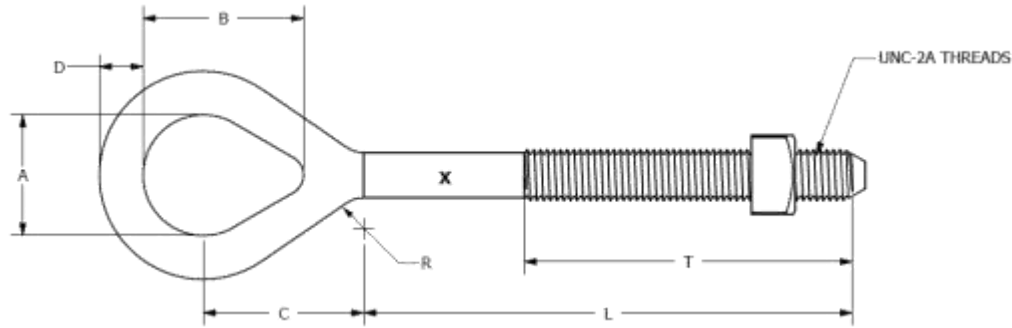
**TITLE: DOUBLE ARMING BOLTS 316 SS**



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Bolt Dia.	Threads Per Inch	A			B			C			D		R	Minimum Tensile Strength (lbf)
		Basic	Min	Max	Basic	Min	Max	Basic	Min	Max	Min	Max	Min	
5/8	11	1-1/2	1-9/16	1-7/16	2	1-15/16	2-1/16	2	1-7/8	2-1/8	31/64	39/64	5/16	13,550
3/4	10	1-1/2	1-9/16	1-7/16	2	1-15/16	2-1/16	2	1-7/8	2-1/8	31/64	39/64	3/4	20,050

### NOTES

1. Material: Steel Hot Dip Galvanized per ASTM A153
2. Strength and Dimensions per ANSI/IEEE C135.4 and IEEE C135.80
3. Oval Eye Bolt to Meet the 180° Bend Test
4. Assembled with 1 Regular Square Nut HDG

5/8" Diameter (5/8-11 UNC)			
L	T	SPS Part Number	
Length	Minimum Thread Length	Import	Domestic
6	4	SPS-9406	SPS-9406D
8	4	SPS-9408	SPS-9408D
9	4	SPS-9409	SPS-9409D
10	6	SPS-9410	SPS-9410D
12	6	SPS-9412	SPS-9412D
14	6	SPS-9414	SPS-9414D
16	6	SPS-9416	SPS-9416D
18	6	SPS-9418	SPS-9418D
20	6	SPS-9420	SPS-9420D
22	6	SPS-9422	SPS-9422D
24	6	SPS-9424	SPS-9424D
26	6	SPS-9426	SPS-9426D

3/4" Diameter (3/4-10 UNC)			
L	T	SPS Part Number	
Length	Minimum Thread Length	Import	Domestic
8	4	SPS-9508	SPS-9508D
10	6	SPS-9510	SPS-9510D
12	6	SPS-9512	SPS-9512D
14	6	SPS-9514	SPS-9514D
16	6	SPS-9516	SPS-9516D
18	6	SPS-9518	SPS-9518D
20	6	SPS-9520	SPS-9520D
22	6	SPS-952022	SPS-952022D
24	6	SPS-952024	SPS-952024D
26	6	SPS-952026	SPS-952026D

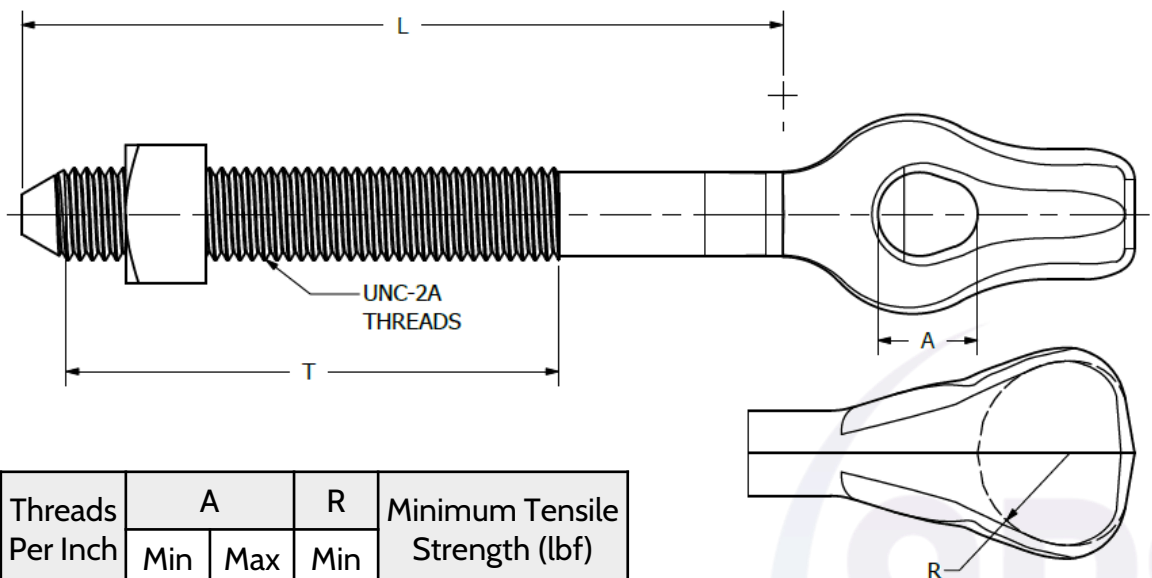
Dimensions in inches unless otherwise noted  
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TITLE: FORGED OVAL EYE BOLT HDG



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Bolt Dia.	Threads Per Inch	A		R	Minimum Tensile Strength (lbf)
		Min	Max	Min	
5/8	11	5/8	3/4	3/8	13,550
3/4	10	5/8	3/4	3/4	20,050

### NOTES

1. Straight Thimbleye Bolt Strength and Dimensions per ANSI/IEEE C135.4 and IEEE C135.80
2. Material: Steel Hot Dip Galvanized per ASTM A153
3. Assembled with 1 Regular Square Nut HDG

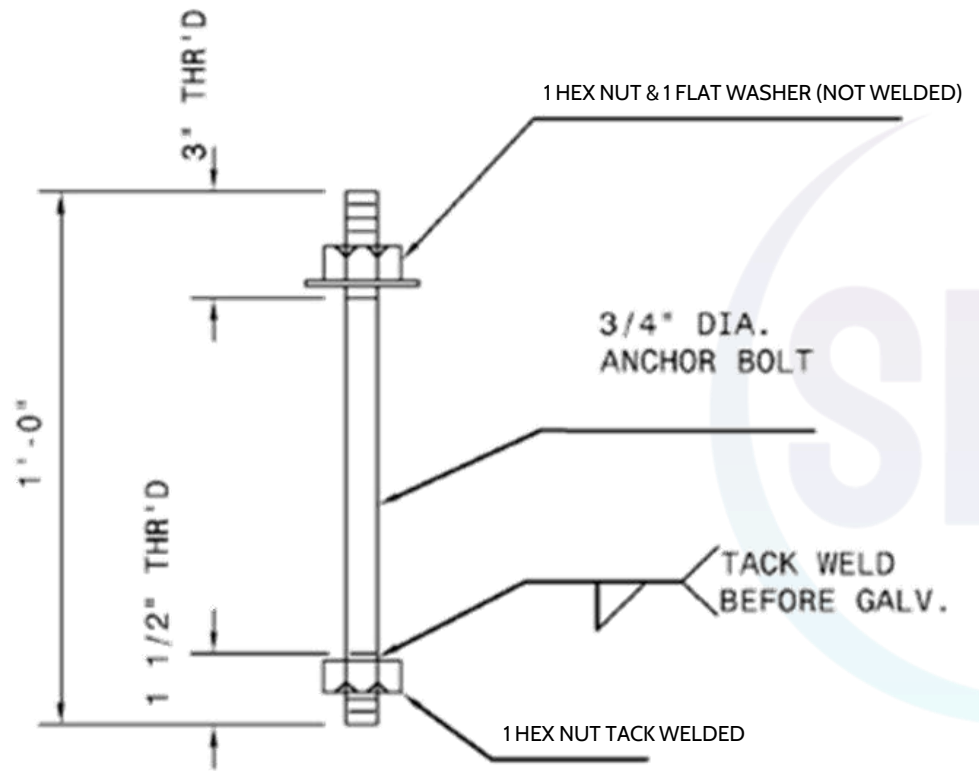
5/8" Diameter (5/8-11 UNC)		
L	T	SPS Part Number
Length	Minimum Thread Length	
8	4	SPS-8050
10	4	SPS-8051
12	6	SPS-8052
14	6	SPS-8053
16	6	SPS-8054
18	6	SPS-8055
20	6	SPS-8056

3/4" Diameter (3/4-10 UNC)		
L	T	SPS Part Number
Length	Minimum Thread Length	
8	4	SPS-8060
10	6	SPS-8061
12	6	SPS-8062
14	6	SPS-8063
16	6	SPS-8064
18	6	SPS-8065

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: STRAIGHT THIMBLE EYE BOLT HDG			
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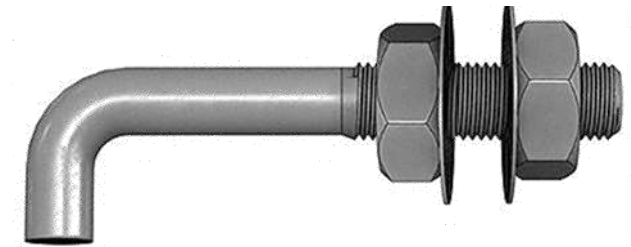
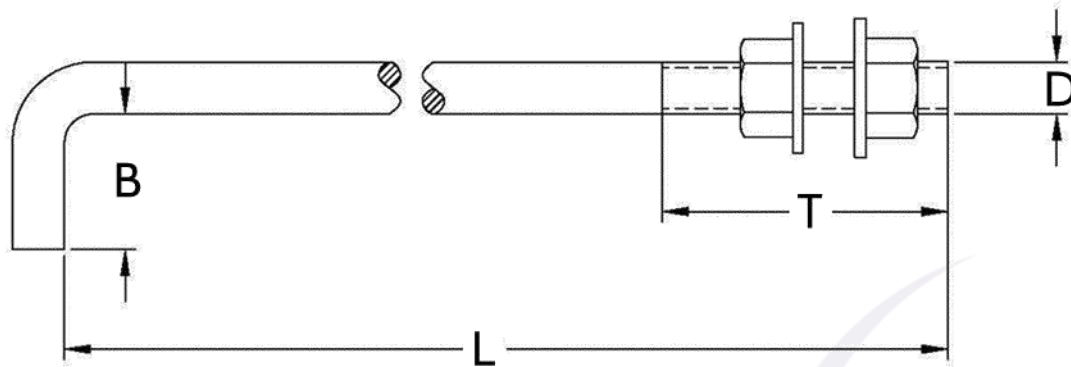


Notes

1. Anchor Rod Material per ASTM F1554 Grade 55
2. All welding in accordance with the current edition of the American Welding Society Structural Welding Code – Steel D1.1. Weld Electrodes shall be type E70XX.
3. Finish: Hot Dip Galvanized per ASTM A123
4. Bolts and nuts are UNC coarse thread per ANSI B1.1, Class 2 fit after galvanizing.
5. Components included with anchor rods:
  - (2) Finished Hex Nuts
    - Dimensions: ANSI/ASME B18.2.2
    - Material: Low Carbon Steel Grade 2
    - (1) Nut tack welded to bottom threads prior to galvanizing
  - (1) USS Flat Washer
    - Dimensions: ASME B18.21.1 Type A Wide Plain Washers
    - Material: Low Carbon Steel

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

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**NOTES**

1. L Anchor Bolts per ASTM A36
2. Material per ASTM F1554 Grade 36 or Grade 55 Weldable per Supplementary Requirement S1
3. Finish: Hot Dip Galvanized to ASTM F2329
4. UNC-2A Threads
5. Assembled with:
  - (2) Galvanized Hex Nuts
  - (2) Galvanized Flat Washers
6. Fully assembled, banded & palletized

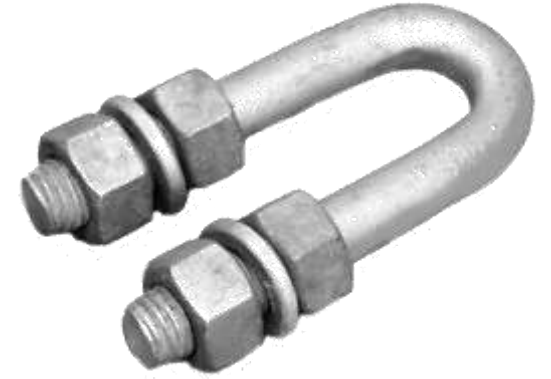
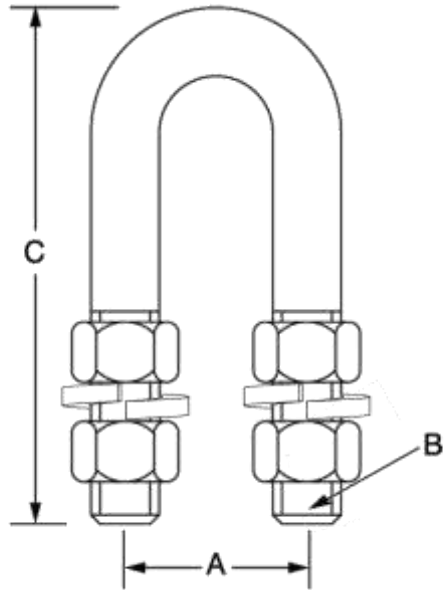
D	L	B	T	Marked #	SPS Part Number
Basic Bolt Diameter & Threads	Length	Bend Length	Thread Length		
3/4-10	26-1/2	4-1/8	5	AB-1	75424.66BALA360319-2N2FW
7/8-9	29	5	5	AB-2	87464.80BALA360319-2N2FW
1-8	36	4-1/2	5	AB-3	100576.72BALA360319-2N2FW
1-1/8-7	40	5	6	AB-4	112640.80BALA360319-2N2FW
1-1/4-7	48	6	7	AB-5	125768.96BALA360319-2N2FW
1-1/2-6	63	6	8	AB-7	1501008.96BALA360319-2N2FW

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TITLE: L Anchor Bolt HDG		
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#### NOTES

1. Steel Hot Dip Galvanized per ASTM A153
2. Assembled with:
  - (4) Finished Hex Nuts HDG
  - (2) Regular Split Lock Washers HDG
3. Strength per Strength and Dimensions per ANSI/IEEE C135.4 and IEEE C135.80

A	B	C	SPS Part Number
1-1/2	9/16-12UNC	4-1/4	SPS-UB-HD

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TITLE: U-BOLT HDG 4 NUTS 2 LW



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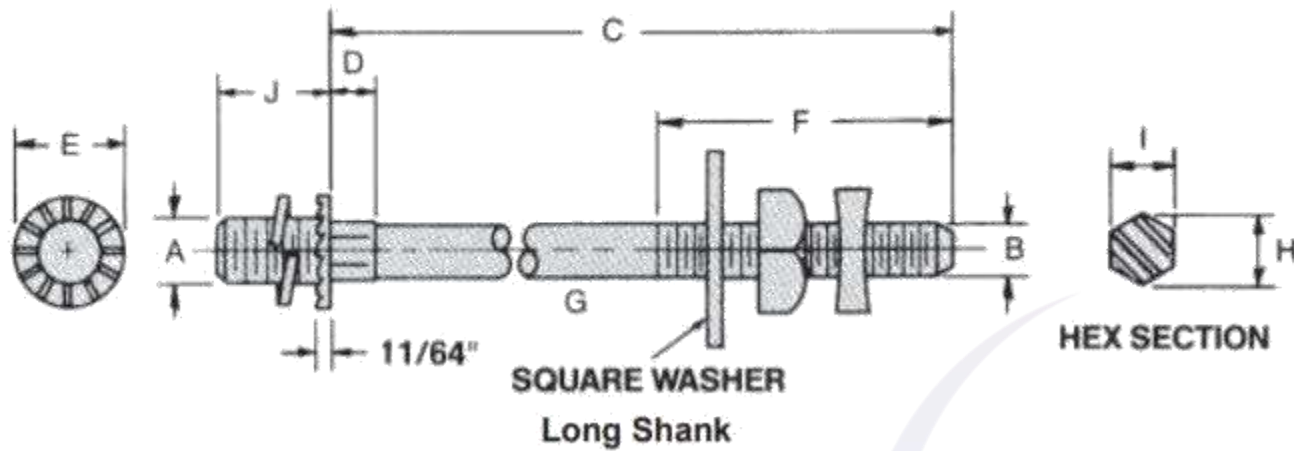
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**NOTES**

1. Long Shank Line Post Insulator Stud for Wood Poles and Crossarms
2. Stud with Forged Hex Collar
3. Stud Material: Forged Steel
4. Finish: Hot Dip Galvanized per ASTM A153
5. Assembled with Galvanized Components:
  - (1) Regular Split Lock Washer
  - (1) Square Plate Washer
  - (1) Regular Square Nut
  - (1) Square MF Lock Nut

A	B	C	D	E	F	G	H	I	J	SPS Part Number
3/4	5/8	7-1/2	1/2	1-1/4	6	2-1/4	21/32	9/16	1-1/8	SPS-25248.1
3/4	5/8	12	1/2	1-1/4	6	2	21/32	9/16	1-1/8	SPS-25248.10
3/4	5/8	14	1/2	1-1/4	8	2	21/32	9/16	1-1/8	SPS-25248.11
3/4	5/8	6	1/2	1-1/4	4	2	21/32	9/16	1-1/8	SPS-25248.25
3/4	5/8	10	1/2	1-1/4	6	Curved	21/32	9/16	1-1/8	SPS-25248.3
3/4	5/8	10	1/2	1-1/4	6	2	21/32	9/16	1-1/8	SPS-25248.9
3/4	3/4	7-1/2	5/8	1-1/4	4	2-1/4	25/32	11/16	1-1/8	SPS-25250.1
3/4	3/4	12	5/8	1-1/4	6	2-1/4	25/32	11/16	1-1/8	SPS-25250.36
3/4	3/4	14	5/8	1-1/4	8	2-1/4	25/32	11/16	1-1/8	SPS-25250.37
3/4	3/4	16	5/8	1-1/4	8	2-1/4	25/32	11/16	1-1/8	SPS-25250.46
3/4	3/4	10	5/8	1-1/4	6	2-1/4	25/32	11/16	1-1/8	SPS-25250.6

Dimensions in inches unless otherwise noted  
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**TITLE: LONG SHANK LINE POST STUD HEX COLLAR HDG**



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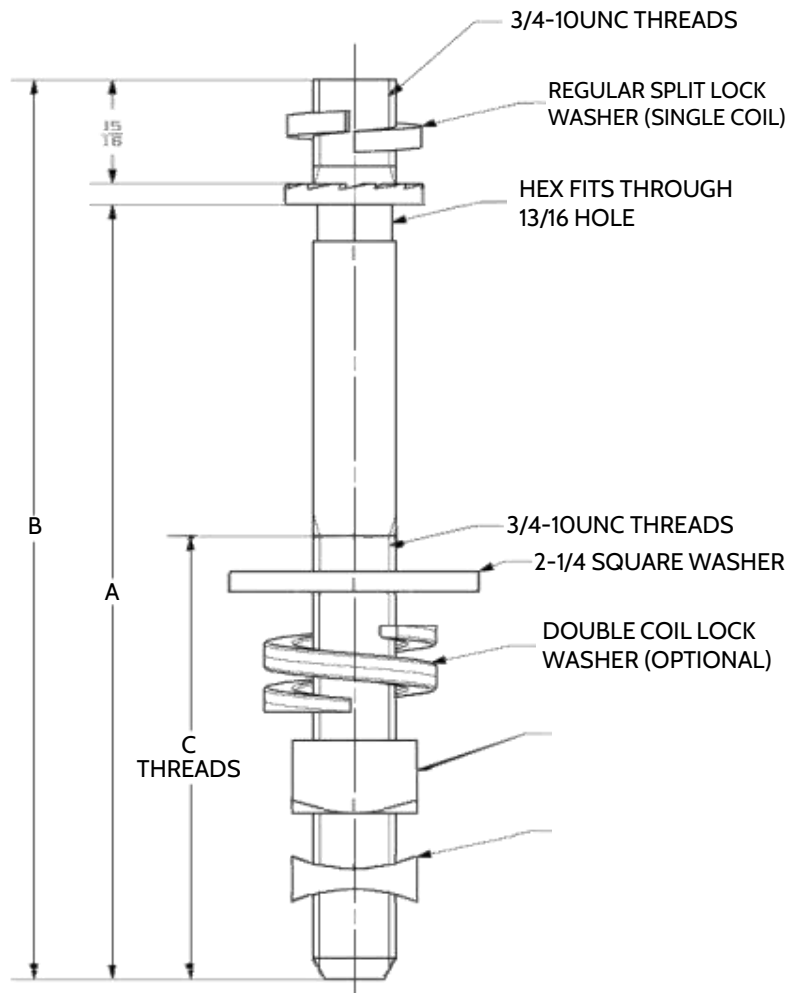
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A	B	C	SPS Part Number	
			Without Double Coil Lock Washer	With Double Coil Lock Washer
Ref	Ref	Min		
7	8-1/8	4	SPS-25250.1	SPS-25250.34
7	8-1/8	6	SPS-25250.43	
10	11-1/8	6	SPS-25250.6	SPS-25250.38
12	13-1/8	6	SPS-25250.7	SPS-25250.36
14	15-1/8	8	SPS-25250.37	SPS-25250.37
16	17-1/8	8	SPS-25250.46	SPS-25250.46
18	19-1/8	8	SPS-25250.47	SPS-25250.47
20	21-1/8	8	SPS-25250.40	SPS-25250.40
24	25-1/8	4	SPS-25250.42	SPS-25250.42
38-7/8	40	14	SPS-25250.80	SPS-25250.80



**NOTES**

1. Long Shank Line Post Stud (Insulator Stud) for Wood Poles and Crossarms with Forged Hex Collar
2. Stud Material: Forged Steel
3. Finish: Hot Dip Galvanized per ASTM A153
4. Assembled Galvanized Hardware:
  - (1) Square Curved MF Lock Nut
  - (1) Regular Square Nut
  - (1) Square Plate Washer 2-1/4" OD x 3/16" Thick
  - (1) Regular Split Lock Washer (Single Coil)
  - (1) Double Coil Spring Lockwasher (Optional)

Dimensions in inches unless otherwise noted  
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**TITLE: LINE POST STUD HEX COLLAR HDG**



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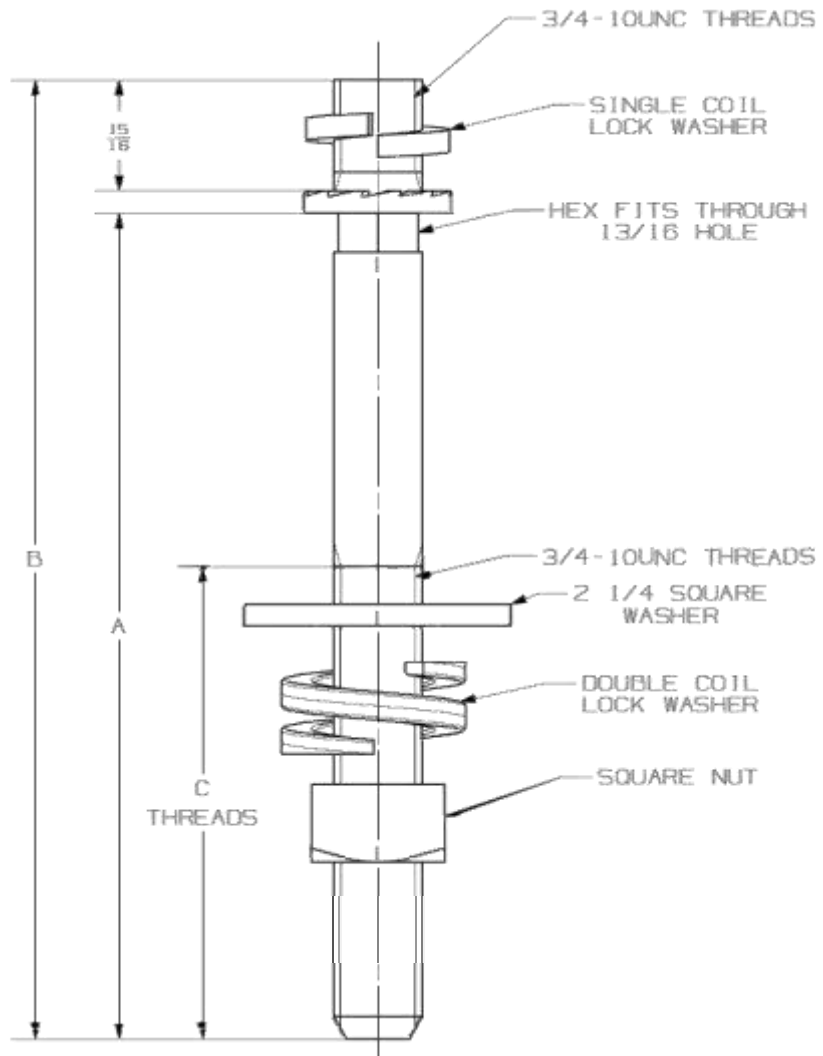
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SPS Part Number	A	B	C Min
SPS-25250.34-316	7	8-1/8	4
SPS-25250.38-316	10	11-1/8	6
SPS-25250.36-316	12	13-1/8	46
SPS-25250.37-316	14	15-1/8	8
SPS-25250.46-316	16	17-1/8	8
SPS-25250.47-316	18	19-1/8	8
SPS-25250.40-316	20	21-1/8	8
SPS-25250.42-316	24	25-1/8	4

#### NOTES

1. Long Shank Line Post Stud for Wood Poles and Crossarms with Forged Hex Collar
2. Material: 316 Stainless Steel (All Components)
3. Assembled 316 Stainless Steel Hardware:
  - (1) Regular Square Nut
  - (1) Double Coil Spring Lockwasher
  - (1) Square Plate Washer 2-1/4" OD x 3/16" Thick
  - (1) Regular Split Lock Washer
4. Shank Line Post Stud for Wood Poles and Crossarms
5. USA Manufactured: Add "D" to end of SPS Part Number

Dimensions in inches unless otherwise noted  
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TITLE: LINE POST STUD HEX COLLAR 316 SS



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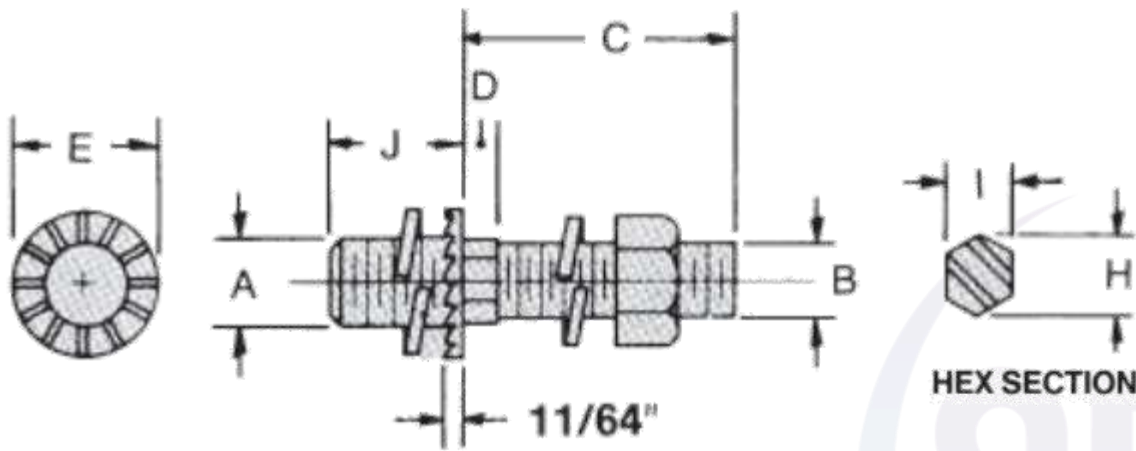
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### NOTES

1. Short Shank Line Post Insulator Stud for Steel Arms and Line Post Brackets
2. Stud with Forged Hex Collar, Full Thread
3. Stud Material: Forged Steel
4. Finish: Hot Dip Galvanized per ASTM A153
5. Assembled with Galvanized Components:
  - (2) Regular Split Lock Washers
  - (1) Regular Square Nut

A	B	C	D	E	H	I	J	SPS Part Number
3/4	5/8	1-3/4	1/4	1-1/4	21/32	9/16	1-1/8	SPS-25247.1
3/4	3/4	1-3/4	1/4	1-1/4	25/32	11/16	1-1/8	SPS-25249.1
7/8	7/8	2	1/2	1 1/2	29/32	13/16	1-3/8	SPS-25251.1

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TITLE: SHORT SHANK LINE POST STUD HEX COLLAR HDG



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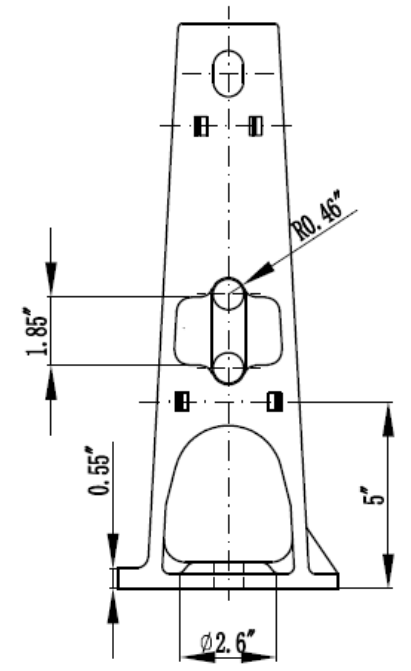
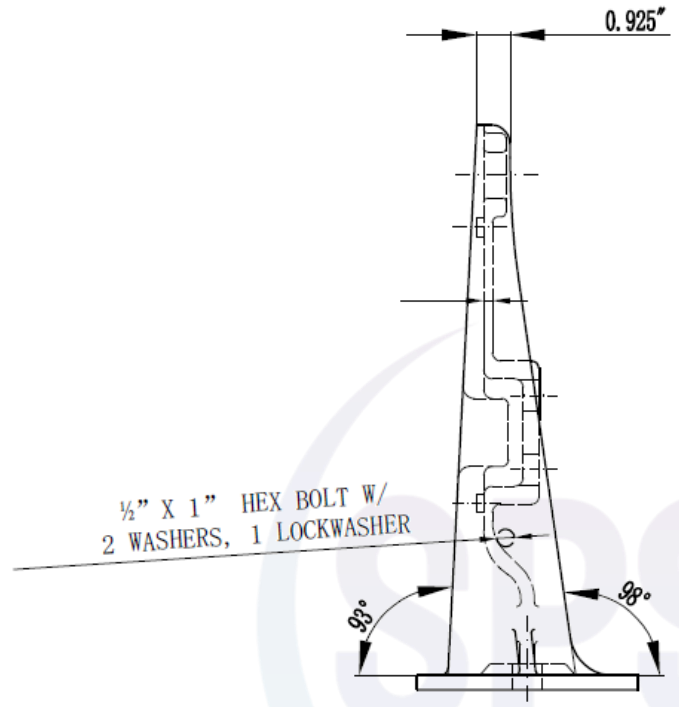
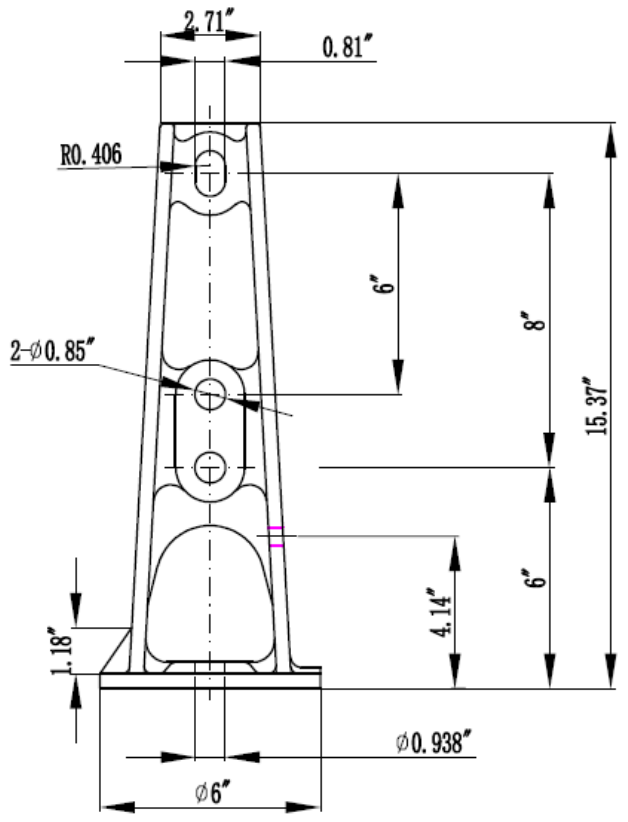
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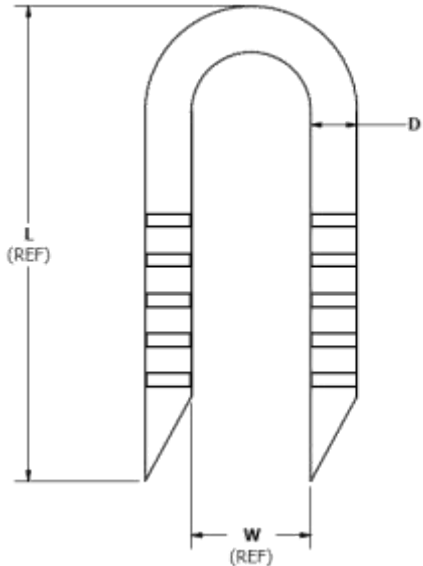
**NOTES**

1. Pole Top Bracket for use with 5/8" or 3/4" Line Post Stud
  2. Material: Ductile Iron per ASTM A536
  3. Finish: Hot Dip Galvanized per ASTM A153
  4. Min Cantilever Strength 2,950 lbs
- Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

SPS Part Number
SPS-PTB-66H

TITLE: POLE TOP BRACKET SPS-PTB-66H		
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### NOTES

1. Square Shank Barbed Cut Point Staples per ANSI/IEEE C135.14 and IEEE C135.80
2. Serrations on 2 opposite surfaces on each leg
3. Materials Available:
  - Steel Wire per ANSI/IEEE C135.14 and IEEE C135.80 Hot Dip Galvanized to ASTM A153
  - Copper Clad Wire per ASTM B277

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

L	W	D	Material	SPS Part Number
Length	Inside Width	Wire Diameter		
1-1/2	3/8	0.131	Steel HDG	SPS-7656
2	3/8	0.131	Steel HDG	SPS-7657
2	3/8	0.165	Steel HDG	SPS-7659
2-1/4	1-3/16	0.218	Steel HDG	SPS-7663
3	1-1/16	0.218	Steel HDG	SPS-7664
2	5/8	0.165	Steel HDG	SPS-7672
1-1/2	3/8	0.140	Copper Coated	SPS-7682

**TITLE: STAPLES, SQUARE SHANK BARBED**



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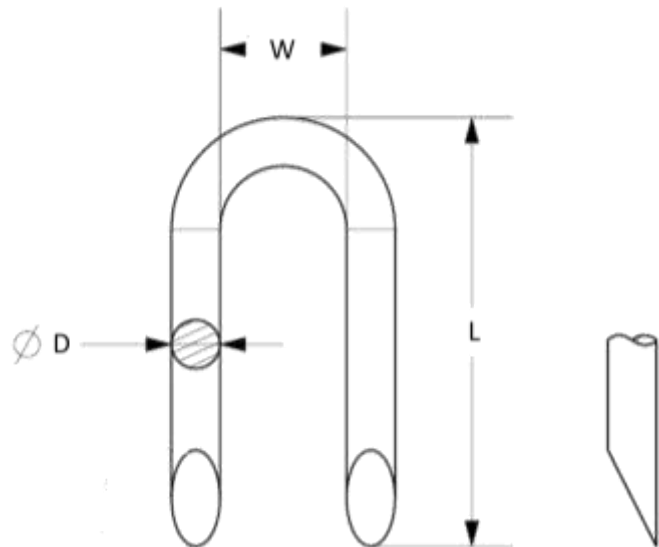
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L	W	D	Material	SPS Part Number
Length	Inside Width	Wire Diameter		
2	1/2	0.162	Steel HDG	SPS-157
1-1/2	1/4	0.148	Steel HDG	SPS-1672G
1-1/2	1/4	0.148	Electro Galvanized	SPS-1672
1-3/4	1/4	0.148	Electro Galvanized	SPS-1673
1-3/4	3/8	0.148	Electro Galvanized	SPS-7496
1-3/8	1/2	0.162	Copper Coated	SPS-6651
1-1/2	3/8	0.148	Copper Coated	SPS-6652
2	1/4	0.162	Copper Coated	SPS-6653
1-1/4	3/16	0.114	Copper Coated	SPS-6654
2	1/2	0.162	Copper Coated	SPS-6655

#### NOTES

1. Round Shank Cut (Slash) Point Staples per ANSI/IEEE C135.14 and IEEE C135.80
2. Materials Available:
  - Steel Wire per ANSI/IEEE C135.14 and IEEE C135.80 Hot Dip Galvanized to ASTM A153
  - Steel Wire per ANSI/IEEE C135.14 and IEEE C135.80 Electro Galvanized to ASTM B633
  - Copper Clad Wire per ASTM B277

Dimensions in inches unless otherwise noted  
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TITLE: STAPLES, ROUND SHANK CUT POINT



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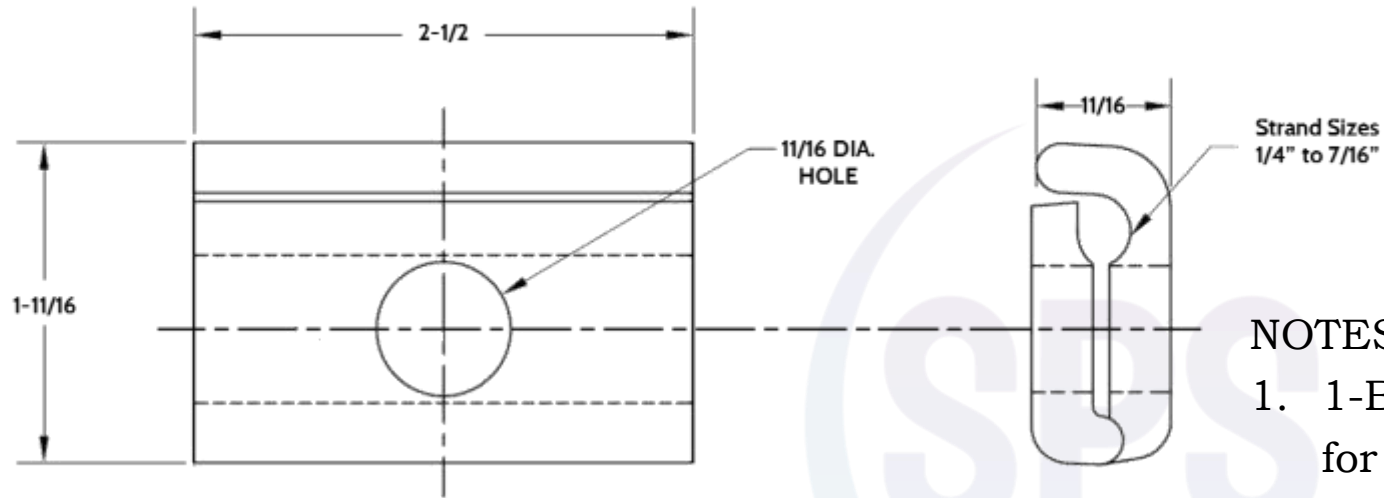
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**NOTES**

1. 1-Bolt Straight Messenger Suspension Clamp for 5/8" Bolt
2. Material: Steel Hot Dip Galvanized to ASTM A153

SPS Part Number
SPS-1095

Dimensions in inches unless otherwise noted  
 All references to standards are the latest revision unless a specific revision is identified.

**TITLE: ONE BOLT CABLE SUSPENSION CLAMP**

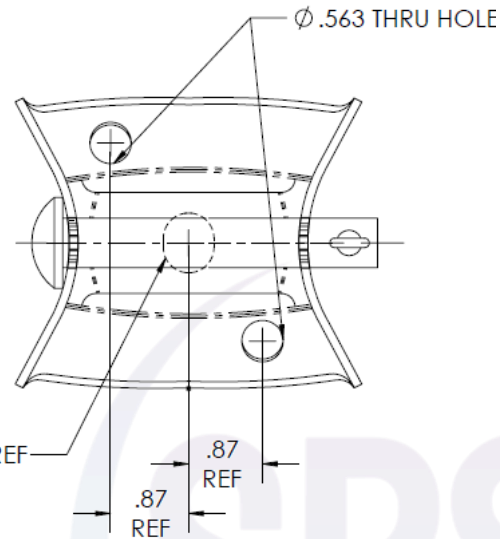
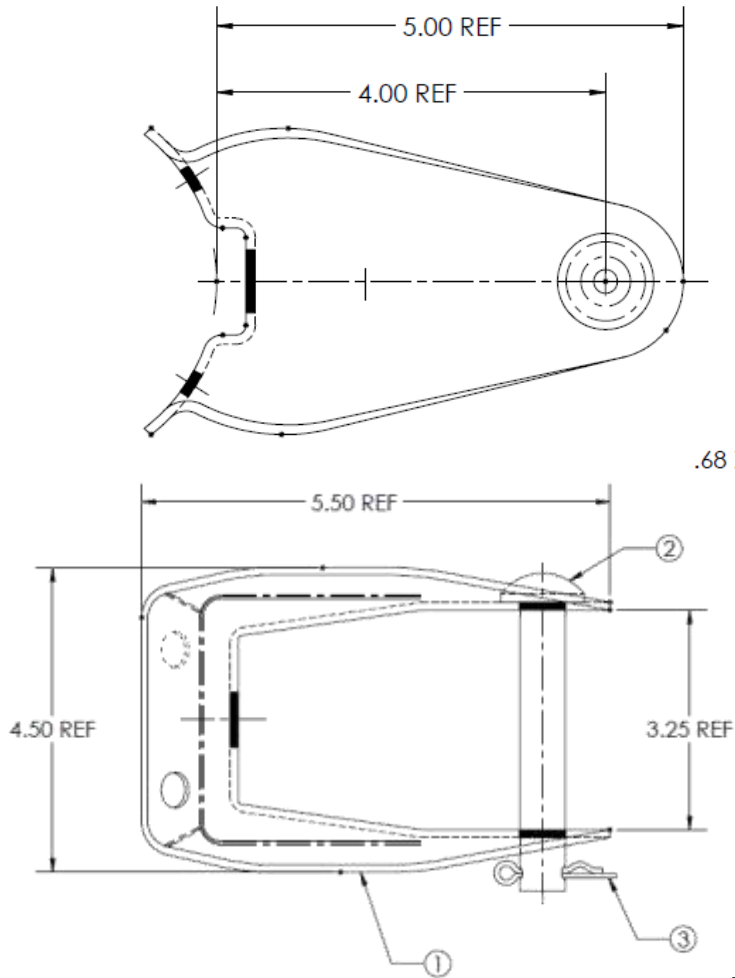


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Item	Qty	Description
1	1	.12 x 4.75 Clevis Body
2	1	5/8 x 4-1/2" Button Head Bolt
3	1	Self-Locking Cotter Pin

### NOTES

1. Clevis Bracket for Spool Insulators Used in Secondary Tangent or Deadend Applications per ANSI C135.20
2. Items 1 and 2 are Steel Hot Dip Galvanized to ASTM A153
3. Item 3 is Stainless Steel

Dimensions in inches unless otherwise noted  
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SPS Part  
Number

SPS-1300

TITLE: SPOOL INSULATOR SECONDARY CLEVIS



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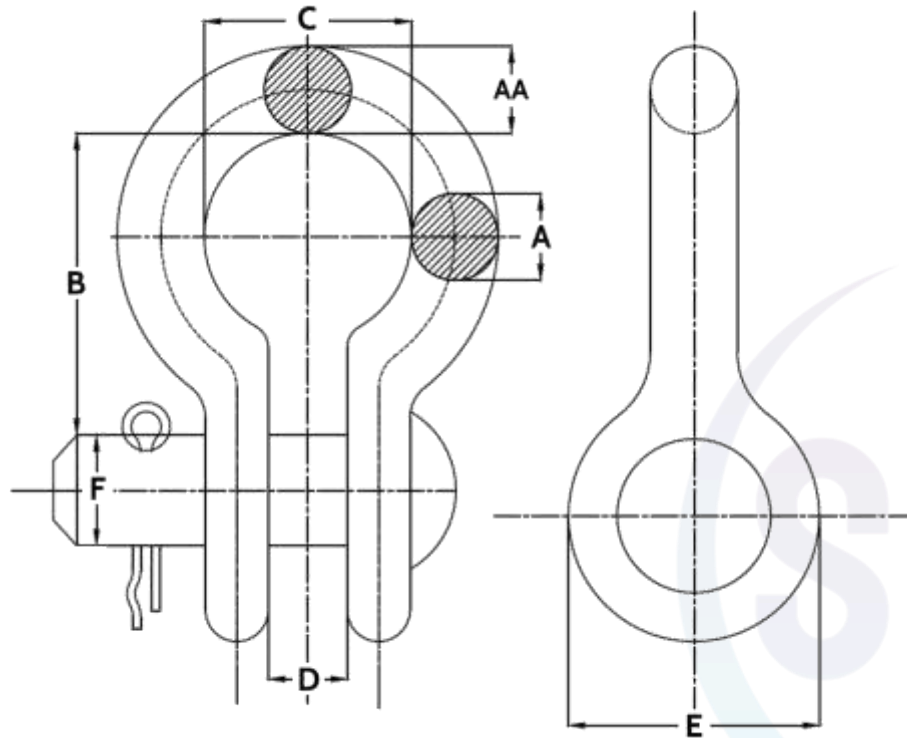
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### NOTES

1. Body & Pin: Steel Hot Dip Galvanized per ASTM A153
2. Cotter Pin: 304 Stainless Steel

SPS Part Number	A	AA	B	C	D	E	F	Ultimate Tensile Strength (lbs)
SPS-2742	1/2	1/2	1-13/16	1-3/8	7/8	1-3/8	5/8	15,000
SPS-2531	5/8	3/4	2-3/8	1-7/8	1-7/8	1-11/16	5/8	25,000
SPS-2743	5/8	3/4	2-7/16	1-7/8	1-1/16	1-11/16	3/4	25,000

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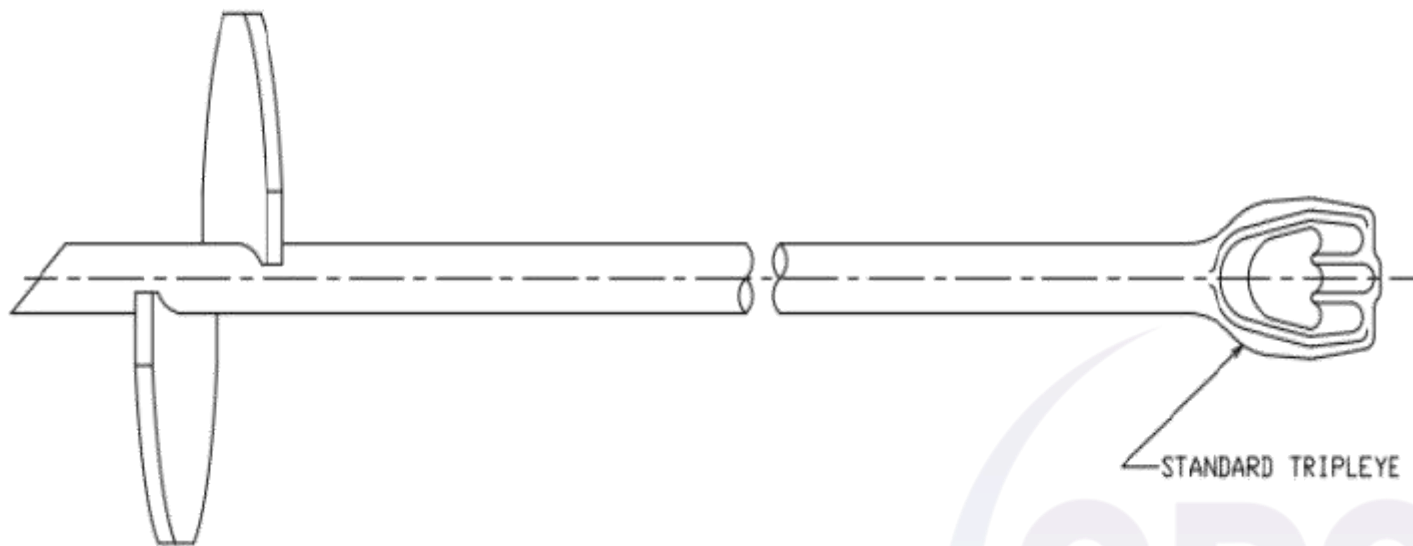
TITLE: ANCHOR SHACKLES GALVANIZED



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Helix Diameter	Rod Diameter	Rod Length	Installation Torque Rating (ft-lbs)	SPS Part Number
4	3/4	54	400	SPS-6524WCA
6			400	SPS-6526WCA
8	1	66	1000	SPS-6528WCA
10	2300		SPS-6530WCA	
10	1-1/4	96	2300	SPS-6550WCA
14			2300	SPS-6584WCA
15			2300	SPS-6585WCA

#### NOTES

1. No-Wrench Screw Anchor with Drop-Forged Steel Tripleye Eye Rod Welded to a Steel Helix
2. Material: Drop-Forged Steel
3. Finish: Hot Dip Galvanized to ASTM A153

Dimensions in inches unless otherwise noted  
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TITLE: TRIPLEYE NO-WRENCH HELIX SCREW ANCHORS



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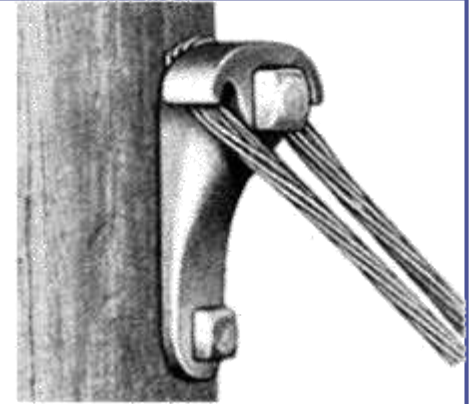
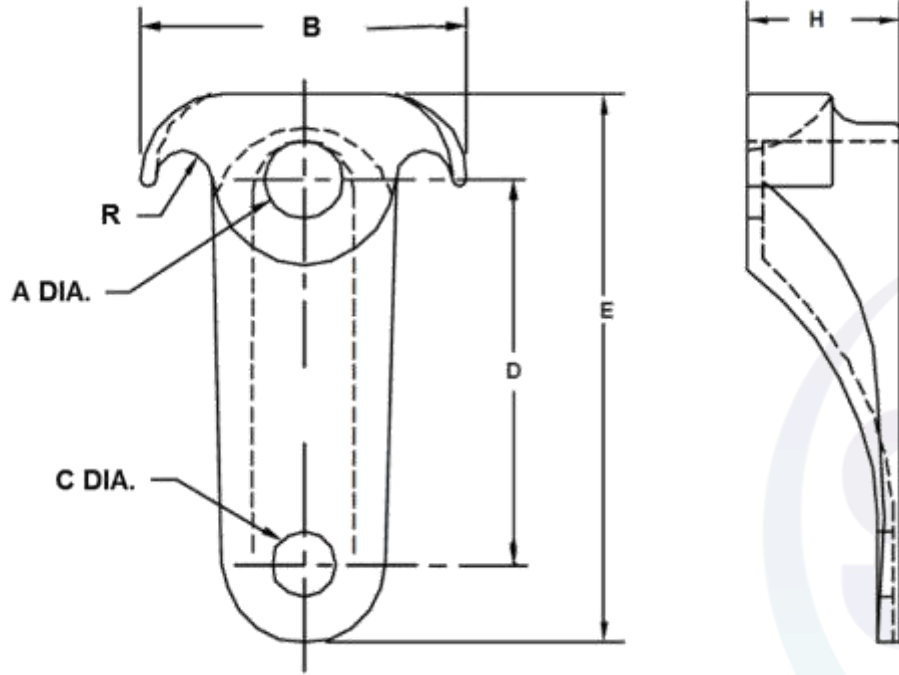
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#### NOTES

1. Guy Hook Attachment Ductile Iron
2. Material: Ductile Iron per ASTM A536
3. Finish: Hot Dip Galvanized to ASTM A153
4. Remove all Burrs and Sharp Edges

Bolt Size	A	B	C	D	E	H	SPS Part Number
5/8	0.812	3 Ref	0.562	3.25	4.812	1.375	SPS-6555
3/4	0.687	3.125 Ref	0.562	3.625	5.250	1.500	SPS-6556

Dimensions in inches unless otherwise noted  
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TITLE: Guy Hook Attachment HDG



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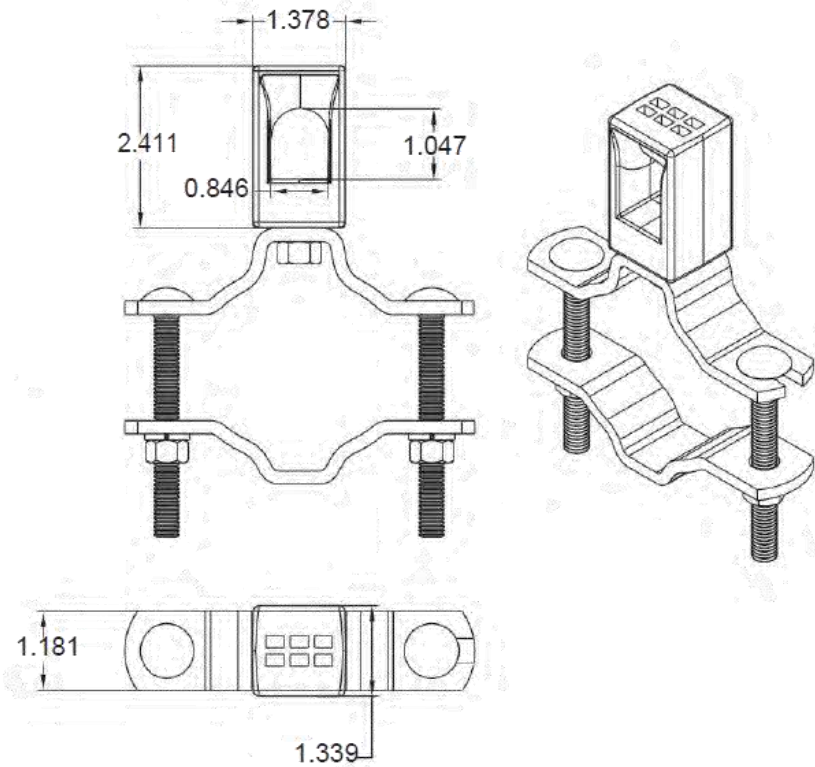
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#### NOTES

1. Service Wireholder, Mast-Type for 1-1/4" to 3" Diameter Pipe
2. Material: 3/16" x 1" Steel
  - Wireholder: Nylon Alloy
  - Brackets and Fasteners: Steel Hot Dip Galvanized per ASTM A153
3. Includes (2) 3/8" Carriage Bolts with Regular Split Lock Washers and Finished Hex Nuts HDG

Color	SPS Part Number
Black	SPS-0588Z
Gray	SPS-0588ZG

Dimensions in inches unless otherwise noted  
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TITLE: SERVICE MAST WIREHOLDER, NYLON ALLOY



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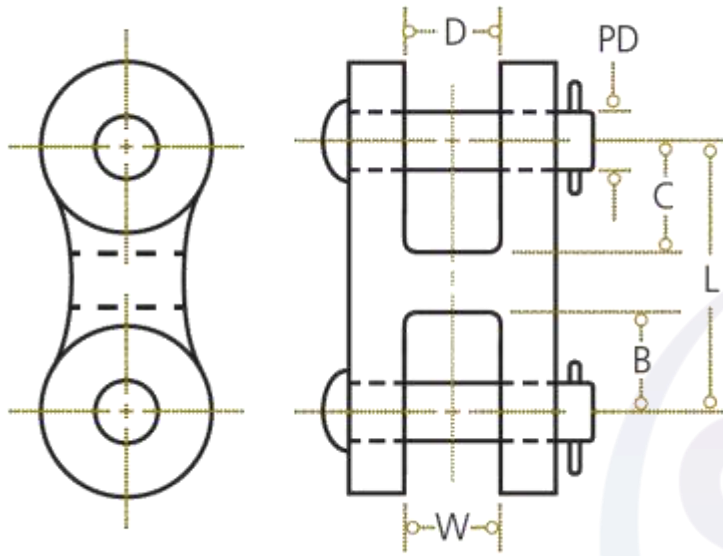
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#### NOTES

- Double Clevis/Twin Clevis/Clevis-Clevis Fitting for clevis tongue insulators
- Material:
  - Body: Galvanized Ductile Iron
  - Clevis Pin: Galvanized Steel
  - Cotter Pin: Stainless Steel
- Bolt and nut may be substituted for clevis pin by adding suffix “BNK” to SPS Part Number

Ultimate Tensile Strength (lbs)	L	B	C	W	D	PD	SPS Part Number
25,000	3	1-1/16	1-1/2	11/16	1-3/16	5/8	SPS-DCC25
30,000	4	1-3/4	1-3/4	7/8	7/8	5/8	SPS-DCC30
30,000	4	2	1-1/2	1-3/16	7/8	5/8	SPS-DCC30115
40,000	4	1-3/4	1-3/4	7/8	7/8	3/4	SPS-DCC40
50,000	4-1/2	2	2	1	1	3/4	SPS-DCC50

Dimensions in inches unless otherwise noted  
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TITLE: **DOUBLE CLEVIS FITTING**



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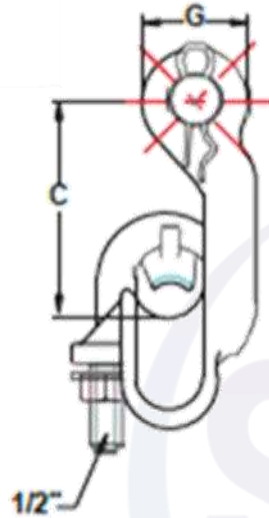
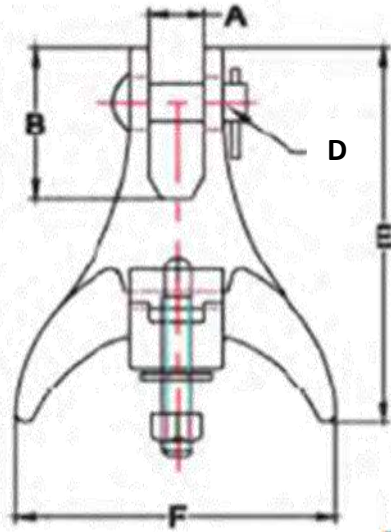


FIG. 2



NOTES

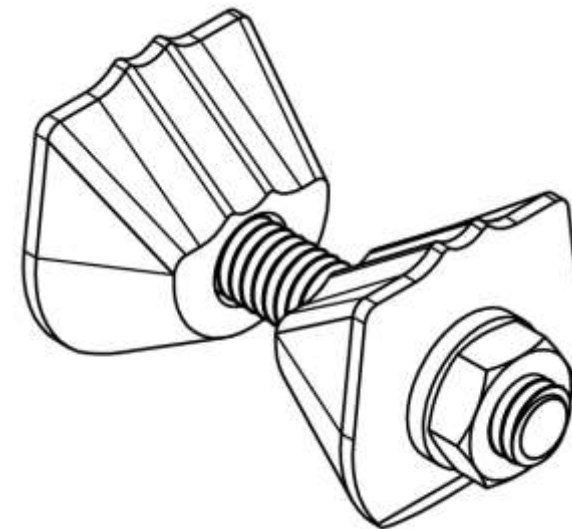
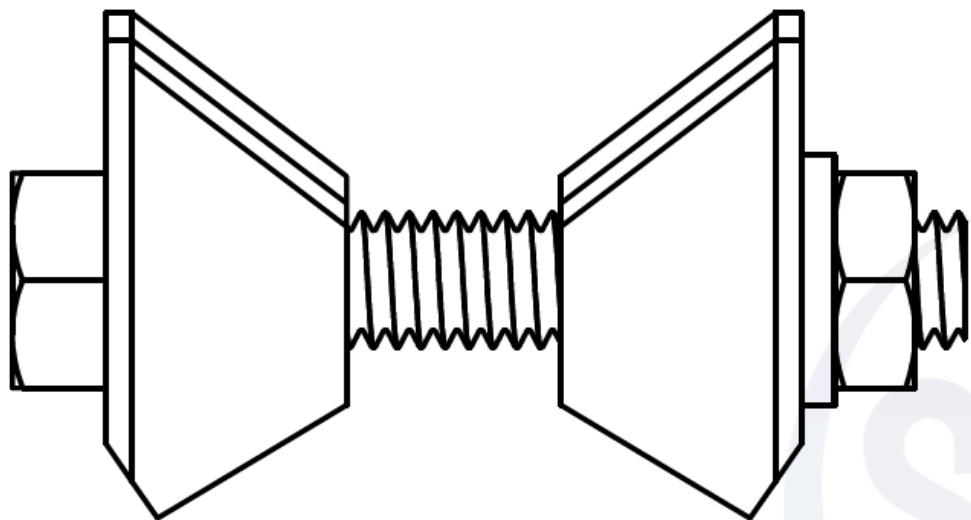
- Angle Type Cable Suspension Clamp
- Material:
  - Body: 356-T6 Aluminum Alloy
  - Hardware: Galvanized Steel
  - Cotter Pin: Stainless Steel

Clamp Range Diameter (inches)	A	B	C	D	E	F	G	Ultimate Tensile Strength (lbs)	SPS Part Number
.16-.60	11/16	1-1/8	2-1/8	5/8	4-3/16	4-3/16	1-1/16	7,000	SPS-AAC-60
.198-.732	11/16	1-1/8	2-7/8	5/8	4	4-1/4	1-1/2	7,000	SPS-AAC-75
.43-1.25	11/16	1-1/8	4	5/8	4-3/4	5-1/4	1-1/2	12,000	SPS-AAC-125
.75-1.66	13/16	1-1/8	6	5/8	7-1/8	4	1-1/2	18,000	SPS-AAC-166

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: ANGLE SUSPENSION CLAMP		
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**NOTES**

1. Double Strand Bonding Clamp for Anchor Rods and Screw Anchors Rod Diameter 5/8", 3/4" and 1"
2. Material:
  - Clamp: Cast Aluminum
  - Hardware: Galvanized Steel
3. Included Assembled 5/16" Hardware:
  - Bolt, 5/16-18 x 2" Full Thread
  - Nut, Finished Hex
  - Washer, Regular Split Lock

Bolt Type	SPS Part Number
Hex Head Bolt	SPS-3231
Carriage Bolt	SPS-3231-CB

Dimensions in inches unless otherwise noted  
All references to standards are the latest revision unless a specific revision is identified.

TITLE: Double Strand Bonding Clamp						
	10475 Crosspoint Blvd Ste 250 Indianapolis, IN 46256 (888) 211-7794 Sales@spsutility.com www.spsutility.com	<table border="1"> <tr> <th>REV</th> <th>DATE</th> </tr> <tr> <td>A</td> <td>01/12/2023</td> </tr> </table>	REV	DATE	A	01/12/2023
	REV	DATE				
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#### NOTES

1. Cross Plate Anchor with Nut Retainer
2. Material: Steel
3. Finish: Black Paint
4. Also available in Hot Dip Galvanized

Installation Hole Diameter	Area of Anchor (in <sup>2</sup> )	Rod Size	Ultimate Soil Anchor Holding Strength (lbs)					SPS Part Number	
			Soil Class					Import	Domestic
			3	4	5	6	7		
16	150	5/8 & 3/4	26,500	22,500	18,500	14,500	9,500	SPS-X16	SPS-X16D
20	250	5/8 & 3/4	34,000	29,000	24,000	19,000	14,000	SPS-X20	SPS-X20D
20	250	1	34,000	29,000	24,000	19,000	14,000	SPS-X20-1	SPS-X20-1D
24	400	5/8 & 3/4	45,000	37,000	30,000	23,500	18,000	SPS-X24-3/4	SPS-X24-3/4D
24	400	1	45,000	37,000	30,000	23,500	18,000	SPS-X24	SPS-X24D
24	400	1-1/4	45,000	37,000	30,000	23,500	18,000	SPS-X24-1	SPS-X24-1D

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Dimensions in inches unless otherwise noted

**TITLE: 8-WAY CROSS PLATE ANCHOR, BLACK**



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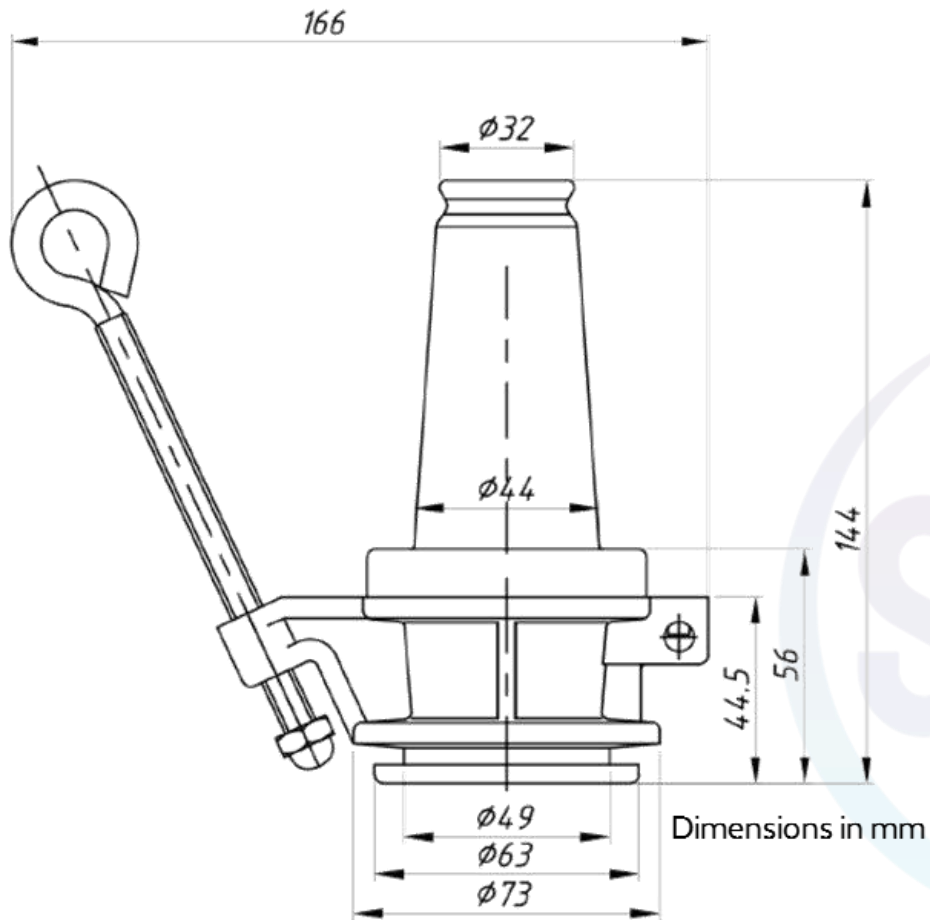
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SPS Part Number
SPS-15200PB



**NOTES**

- 200A, 15kV Insulated Standoff Bushing
- Meets or exceeds all requirements of IEEE Std 386, IEEE Std 592, and IEC 60502
- Interface complies with IEEE Std 386 Figure 5
- Material:
  - Molded EPDM Rubber body bolted to a stainless-steel base bracket using a galvanized steel hold down ring. Stainless steel eye bolt with stainless pressure foot.
  - A completely stainless-steel bracket assembly is available for extremely corrosive environments.
- Each kit contains:
  - Insulated Parking Bushing
  - Lubricant
  - Installation Instructions
  - Protective Shipping Cap

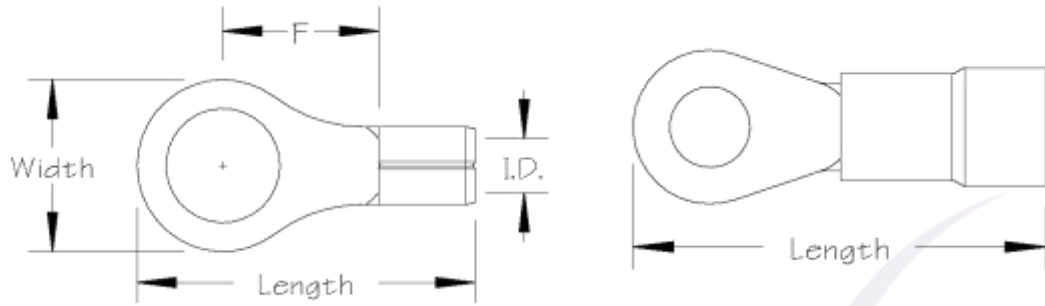
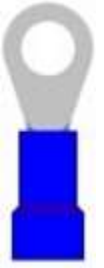
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**TITLE:** 200A 15kV Class Insulated Standoff Bushing

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### NOTES

1. Insulated Ring Terminals
2. Terminal Rated for 600 Volt 90°C
3. Material and Finish: Copper Tin Plated
4. Country of Origin: USA

Wire Size	Stud Size	Uninsulated Length	Insulated Length	Width	F	ID	Material Thickness	Barrell Length	SPS Part Number	
									Vinyl Insulated	Nylon Insulated
6	8-10	1.14	1.54	0.47	0.53	0.25	0.050	0.375	SPS-50615V	SPS-50615N
	8-10	1.00	1.40	0.47	0.309	0.25	0.048		SPS-50615EV	SPS-50615EN
	12-1/4	1.14	1.54	0.47	0.53	0.25	0.050		SPS-50616V	SPS-50616N
	12-1/4	1.00	1.40	0.47	0.39	0.25	0.048		SPS-50616EV	SPS-50616EN
	5/16	1.22	1.62	0.62	0.53	0.25	0.050		SPS-50617V	SPS-50617N
	3/8	1.22	1.62	0.62	0.53	0.25	0.050		SPS-50618V	SPS-50618N
	1/2	1.6	2	0.86	0.75	0.25	0.050		SPS-50619V	SPS-50619N

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TITLE: RING TERMINAL, 6 AWG NYLON INSULATED



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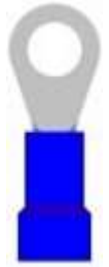
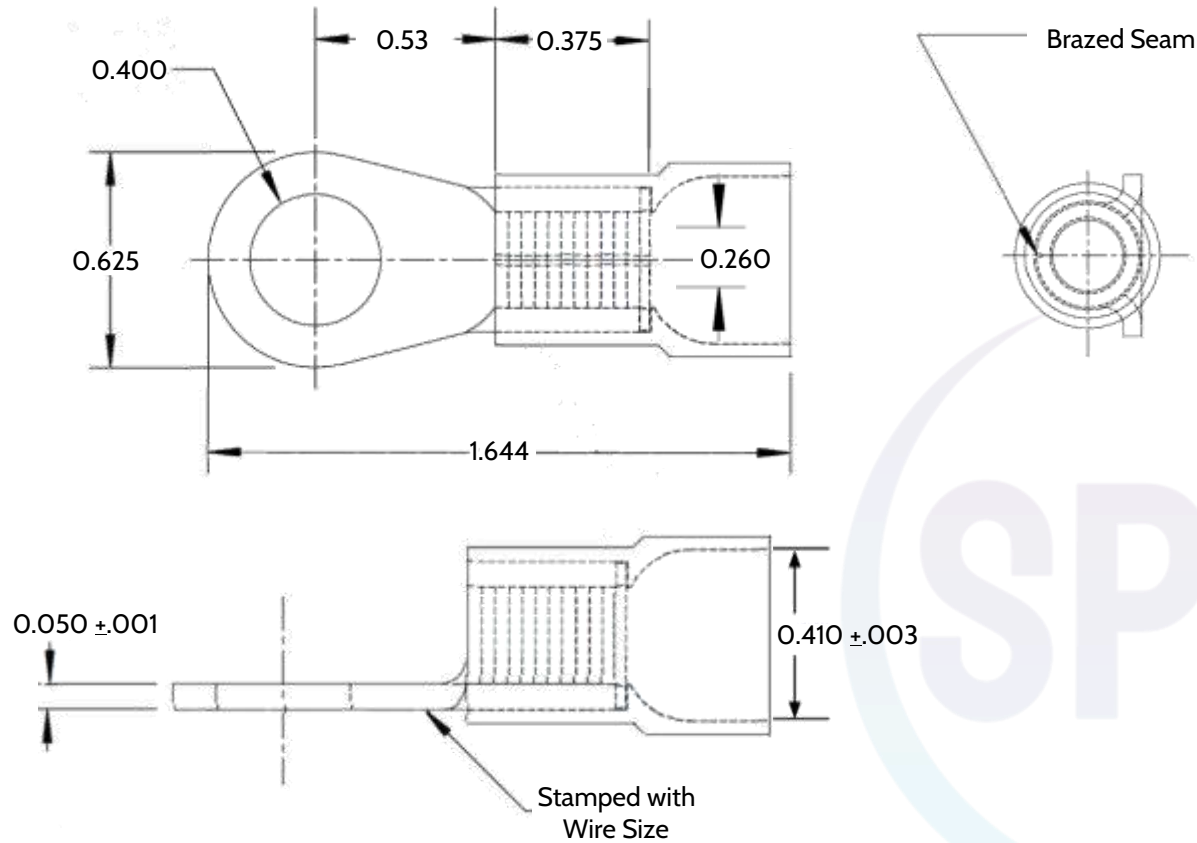
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#### NOTES

1. Nylon Insulated Ring Terminals
2. Terminal Rated for 600 Volt 90°C
3. Material and Finish: Copper Tin Plated
4. Insulation Color: Blue
5. Country of Origin: USA

Wire Size	Stud Size	SPS Part Number
6	3/8	SPS-50618N

#### TOLERANCES

UNLESS OTHERWISE SPECIFIED

.XXX	+/- .010
.XX	+/- .020
.X	+/- .030

All references to standards are the latest revision unless a specific revision is identified.

TITLE: RING TERMINAL, 6 AWG 3/8" STUD NYLON INSULATED



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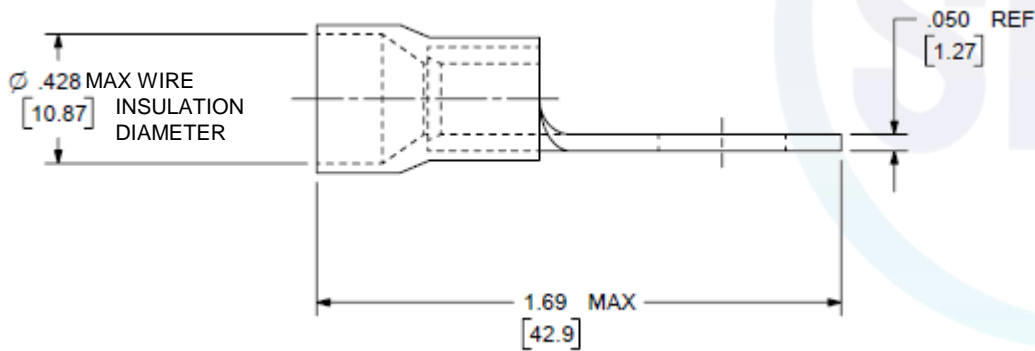
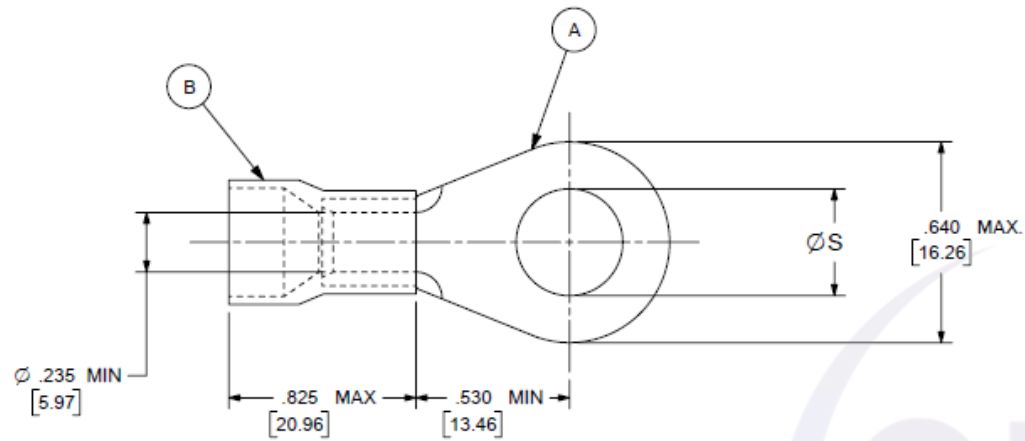
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For sizes not shown, please contact SPS Sales



**NOTES**

1. Nylon Insulated Ring Terminal
2. Terminal Rated for 600 Volt 105°C
3. Material & Finish:
  1. Terminal: Copper Alloy, Electro-Tin Plated (.0003 Min)
  2. Insulation: Nylon, Color Coded Blue
4. Dimensions shown are for reference only

Dimensions in inches [mm].

All references to standards are the latest revision unless a specific revision is identified.

Wire Size	Stud Size	S ±.005 [0.13]	SPS Part Number
6	3/8	.390	SPS-50618N-.428

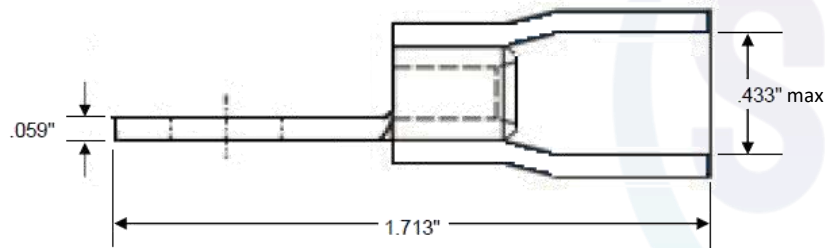
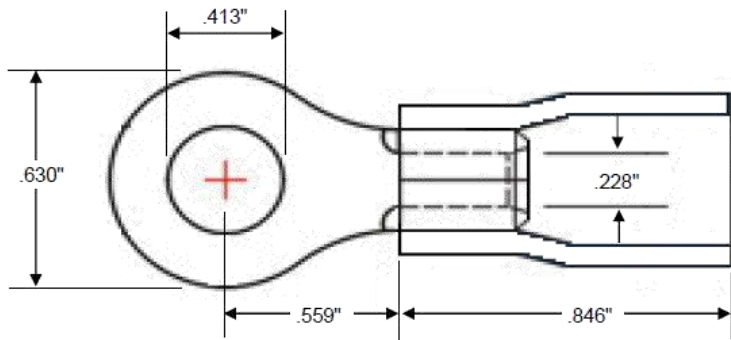
**TITLE:** RING TERMINAL, 6 AWG 3/8" STUD NYLON INSULATED, .428 MAX WIRE INSULATION DIAMETER



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#### NOTES

1. 6 Gauge 3/8" Stud Size Insulated Ring Terminal
2. Material and Finish: Copper Tin Plated
3. Nylon insulation material is molded onto brazed seam barrel and is resistant to deformation.
4. Funnel entry is formed into inside of insulation to allow for easier wire insulation.
5. Brazed seam will not separate under pressure or operating stress.
6. Clear nylon allows for easy inspection of wire connection.
7. Industry standard color-coding indicates wire range.
8. Rated to 600 volts maximum, building wire; 1000 volts maximum, 105° C (221° F).

Wire Size	Stud Size	Material Thickness	SPS Part Number
6 Gauge	3/8	0.059	SPS-50618NC

All references to standards are the latest revision unless a specific revision is identified.

TITLE: RING TERMINAL, 6 AWG CLEAR NYLON 3/8" STUD



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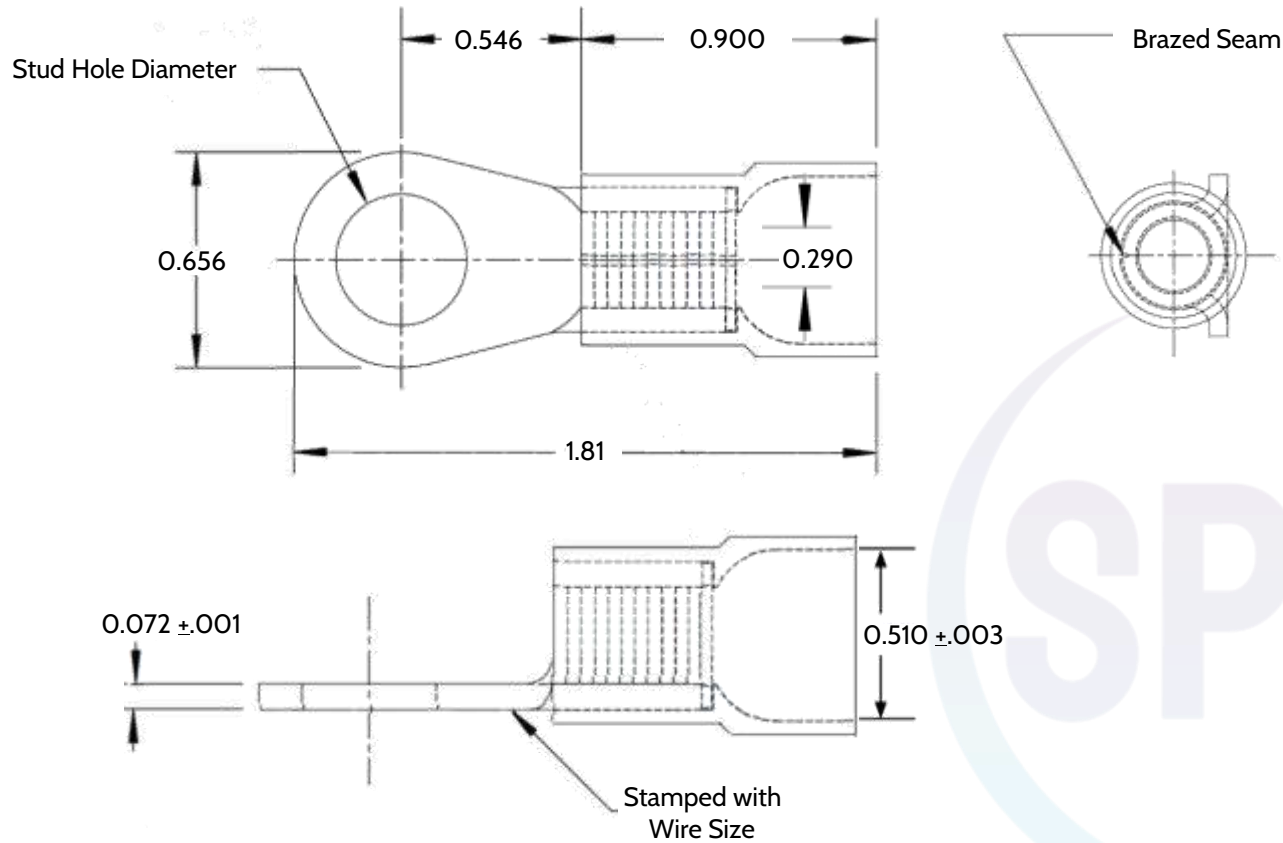
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For sizes not shown, please contact SPS Sales



#### NOTES

1. Nylon Insulated Ring Terminals
2. Terminal Rated for 600 Volt 90°C
3. Material and Finish: Copper Tin Plated
4. Insulation Color: Yellow
5. Country of Origin: USA

Wire Size	Stud Size	Stud Hole Diameter (Nominal)	SPS Part Number
4	1/4	0.265	SPS-50620N
	5/16	0.328	SPS-50621N
	3/8	0.400	SPS-50622N

#### TOLERANCES

UNLESS OTHERWISE SPECIFIED

.XXX +/- .010  
 .XX +/- .020  
 .X +/- .030

All references to standards are the latest revision unless a specific revision is identified.

TITLE: RING TERMINAL, 4 AWG NYLON INSULATED



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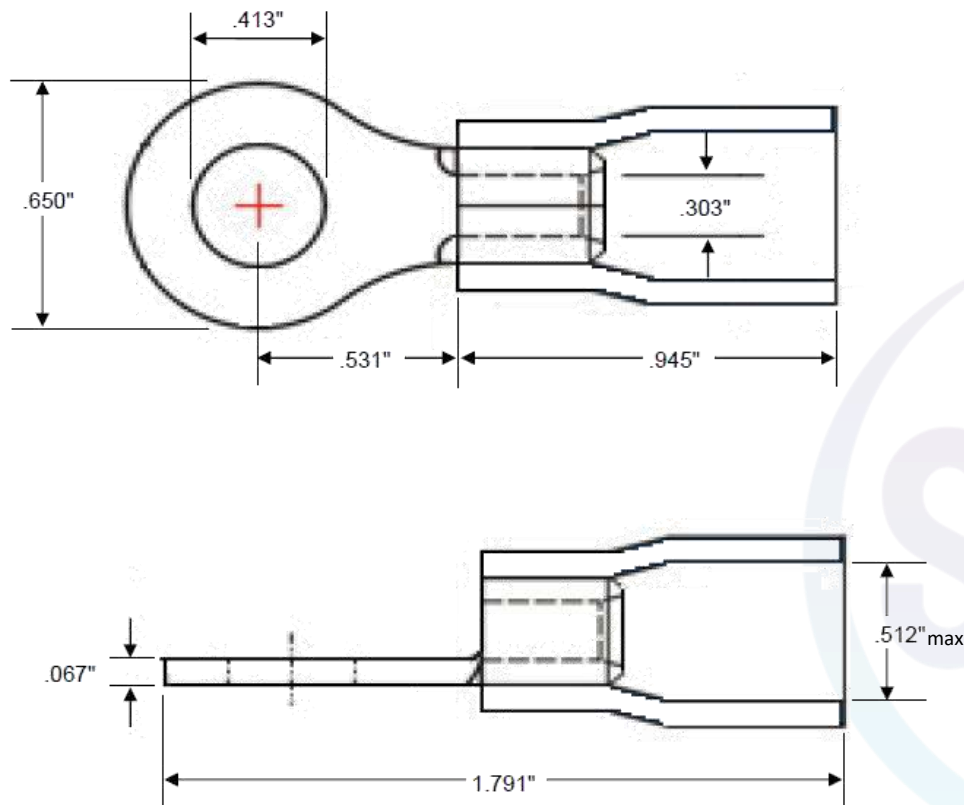
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For sizes not shown, please contact SPS Sales





**NOTES**

1. 4 Gauge 3/8" Stud Size Insulated Ring Terminal
2. Material and Finish: Copper Tin Plated
3. Nylon insulation material is molded onto brazed seam barrel and is resistant to deformation.
4. Funnel entry is formed into inside of insulation to allow for easier wire insulation.
5. Brazed seam will not separate under pressure or operating stress.
6. Clear nylon allows for easy inspection of wire connection.
7. Industry standard color-coding indicates wire range.
8. Rated to 600 volts maximum, building wire; 1000 volts maximum, 105° C (221° F).

Wire Size	Stud Size	SPS Part Number
4 Gauge	3/8	SPS-50622NC

All references to standards are the latest revision unless a specific revision is identified.

**TITLE:** RING TERMINAL, 4 AWG CLEAR NYLON 3/8" STUD



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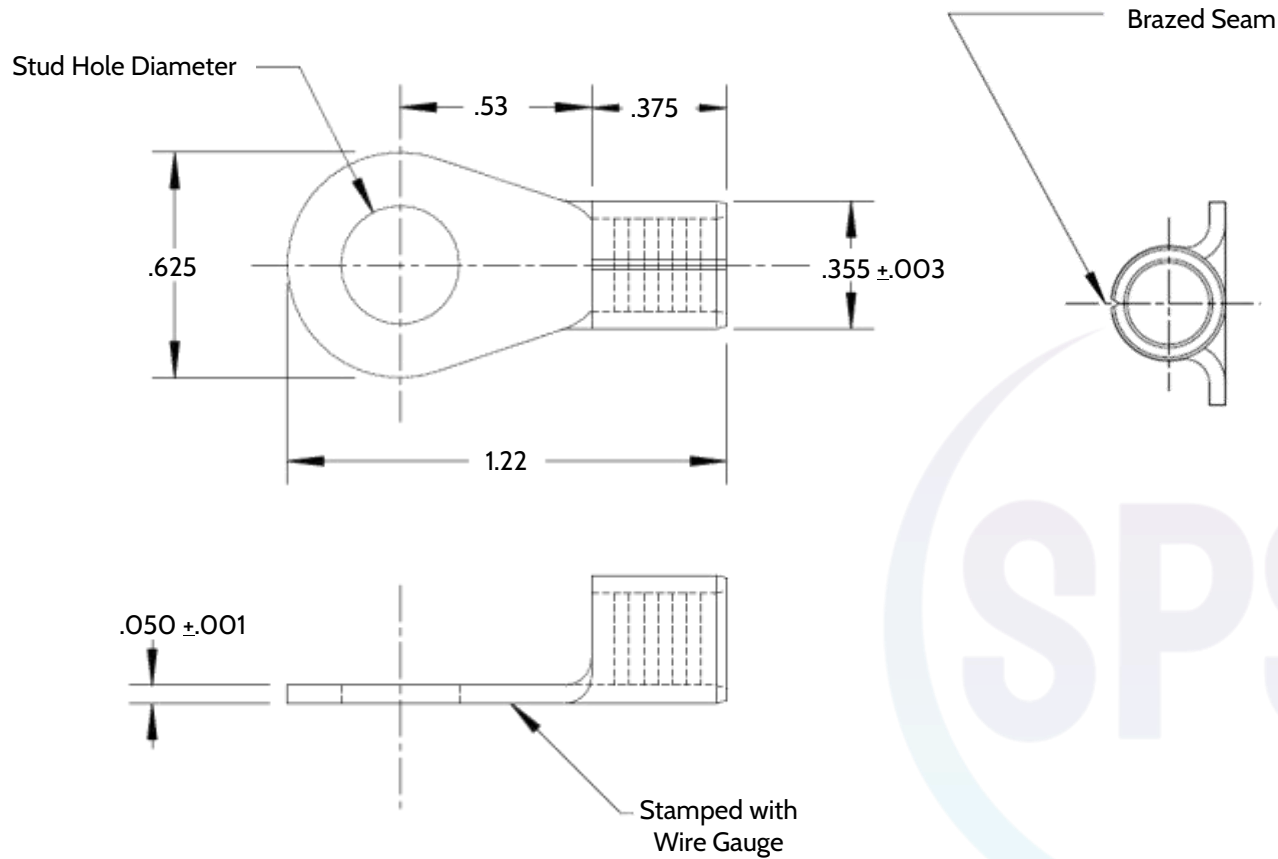
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### NOTES

1. Uninsulated Ring Terminals, Brazed Seam
2. Terminal Rated for 600 Volt 90°C
3. Material and Finish: Copper Tin Plated
4. Country of Origin: USA

Wire Size	Stud Size	Stud Hole Diameter (Nominal)	SPS Part Number
6	5/16	0.328	SPS-50617
Gauge	3/8	0.400	SPS-50618

### TOLERANCES

UNLESS OTHERWISE SPECIFIED

.XXX	+/- .010
.XX	+/- .020
.X	+/- .030

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TITLE: RING TERMINAL, 6 AWG 5/16" & 3/8" STUD UNINSULATED



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Single Wall – No Adhesive Shrink Ratio 2:1			
Wire Size	OD	SPS Part Number	
		4FT Cut Length	100FT REEL
		Black	Black
24-20	1/8"	SPS-05768THSS2	SPS-05100FTTHSS2
20-14	3/16"	SPS-10768THSS2	SPS-10100FTTHSS2
14-8	1/4"	SPS-25768THSS2	SPS-25100FTTHSS2
10-6	5/16"	SPS-31768THSS2	SPS-31100FTTHSS2
8-4	3/8"	SPS-37768THSS2	SPS-37100FTTHSS2
4-1	1/2"	SPS-50768THSS2	SPS-50100FTTHSS2

**Custom Lengths Available  
Contact SPS Sales  
For Sizes Not Shown**



Dual Wall – Adhesive Lined Shrink Ratio 2.5:1			
Wire Size	Color	OD x Length	SPS Part Number
22-16	Red	3/16" x 6"	SPS-1096THSDA2.5R
16-14	Blue	1/4" x 6"	SPS-2596THSDA2.5BL
12-10	Yellow	5/16" x 6"	SPS-3196THSDA2.5Y

Thin Wall – Adhesive Lined Shrink Ratio 2:1			
Wire Size	Color	OD x Length	SPS Part Number
22-16	Black	1/4" x 3"	SPS-2548THST2
16-14	Black	3/8" x 3"	SPS-3748THST2
12-10	Black	1/2" x 3"	SPS-5048THST2

SHRINK TUBING CHART					
Tubing OD	Non-Insulated	Vinyl & Nylon	Copper Lugs	Heavy Duty Lugs	Battery Terminals
3/32"	26-24				
1/8"	22-18	26-24			
3/16"	16-14	22-18			
1/4"	12-10	16-14			
3/8"	8-6	12-10	8-6	8-4	
1/2"	4-2	8-6	4-1/0	1	4
3/4"	1/0-3/0	4-1/0	2/0-4/0	1/0-3/0	1-3/0
1"		2/0-3/0	250 MCM	4/0	4/0

Dual Wall – Adhesive Lined, Shrink Ratio 3:1						
Wire Size	Expanded Diameter	SPS Part Number				
		6" Cut Length			4FT Cut Length	100FT Reel
		Black	Clear	Red	Black	Black
24-16	1/8"	SPS-0596THSDA3	SPS-0596THSDA3C	SPS-0596THSDA3R	SPS-05768THSDA3	SPS-05100FTTHSDA3
20-12	3/16"	SPS-1096THSDA3	SPS-1096THSDA3C	SPS-1096THSDA3R	SPS-10768THSDA3	SPS-10100FTTHSDA3
12-8	1/4"	SPS-2596THSDA3	SPS-2596THSDA3C	SPS-2596THSDA3R	SPS-25768THSDA3	SPS-25100FTTHSDA3
10-4	3/8"	SPS-3796THSDA3	SPS-3796THSDA3C	SPS-3796THSDA3R	SPS-37768THSDA3	SPS-37100FTTHSDA3
8-1	1/2"	SPS-5096THSDA3	SPS-5096THSDA3C	SPS-5096THSDA3R	SPS-50768THSDA3	SPS-50100FTTHSDA3
4-250 MCM	3/4"	SPS-7596THSDA3	SPS-7596THSDA3C	SPS-7596THSDA3R	SPS-75768THSDA3	SPS-75100FTTHSDA3
1-500 MCM	1"	SPS-10096THSDA3	SPS-10096THSDA3C	SPS-R10096THSDA3	SPS-100768THSDA3	SPS-100100FTTHSDA3
600-700 MCM	1-1/4"	SPS-12596THSDA3	SPS-12596THSDA3C	SPS-R12596THSDA3	SPS-125768THSDA3	SPS-125100FTTHSDA3
800-1000 MCM	1-1/2"	SPS-15096THSDA3	SPS-15096THSDA3C	SPS-15096THSDA3R	SPS-150768THSDA3	SPS-150100FTTHSDA3
1000-1250 MCM	2"	SPS-20096THSDA3	SPS-20096THSDA3C	SPS-20096THSDA3R	SPS-200768THSDA3	SPS-200100FTTHSDA3

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TITLE: HEAT SHRINK TUBING

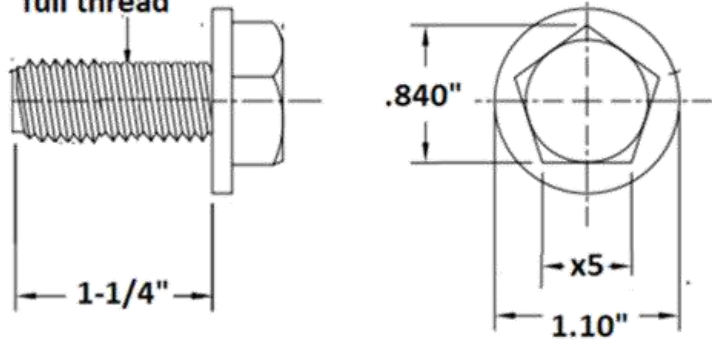


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**Option 1:**

3/8-16 UNC  
full thread

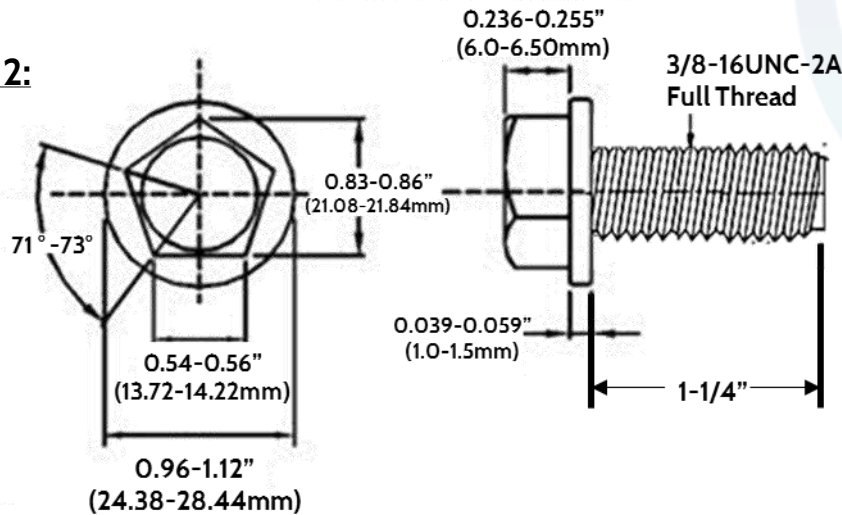


All measurements +/- our factory specs, please advise if any specifications are critical



drawing not to scale,  
not exactly as shown

**Option 2:**



**NOTES**

1. Penta Washer Head Machine Bolt, Silicon Bronze, Full Thread
2. Material: 651, 655, or 656 Silicon Bronze Alloy per ASTM F468 (UNS C65100, C65500 or C65600)

SPS Part Number
3720BPWSB

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TITLE: 3/8-16x1-1/4 Penta Washer Head, Silicon Bronze



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