

Hardware



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Tightening Torque Guide

Grade 5 Coarse Thread

The below estimated torque calculations are only offered as a guide. Use of its content by anyone is the sole responsibility of that person and they assume all risk.

- Clamp Load is calculated at 75% of Proof Load

Diameter	Clamp Load	Plated (ft-lbs)	Plain (ft-lbs)
1/4-20	2025	76 in-lbs	101 in-lbs
5/16-18	3338	13 ft-lbs	17 ft-lbs
3/8-16	4950	23	31
7/16-14	6788	37	50
1/2-13	9075	57	76
9/16-12	11625	82	109
5/8-11	14400	112	150
3/4-10	21300	200	66
7/8-9	29475	322	430
1-8	38625	483	644
1-1/8-7	42375	596	794
1-1/4-7	53775	840	1120
1-3/8-6	64125	1102	1470
1-1/2-6	78000	1462	1950

Grade 5 Fine Thread

Diameter	Clamp Load	Plated (ft-lbs)	Plain (ft-lbs)
1/4-28	2325	87 in-lbs	116 in-lbs
5/16-24	3675	14 ft-lbs	19 ft-lbs
3/8-24	5588	26	35
7/16-20	7575	41	55
1/2-20	10200	64	85
9/16-18	12975	91	122
5/8-18	16350	128	170
3/4-16	23775	223	297
7/8-14	32475	355	474
1-14	43343	541	721
1-1/8-12	47475	668	890
1-1/4-12	59550	930	1241
1-3/8-12	72975	1254	1672
1-1/2-12	87750	1645	2194

Grade 8 Coarse Thread

The below estimated torque calculations are only offered as a guide. Use of its content by anyone is the sole responsibility of that person and they assume all risk.

- Clamp Load is calculated at 75% of Proof Load

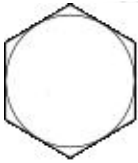
Diameter	Clamp Load	Plated (ft-lbs)	Plain (ft-lbs)
1/4-20	2850	9	12
5/16-18	4725	18	25
3/8-16	6975	33	44
7/16-14	9600	52	70
1/2-13	12750	80	106
9/16-12	16350	115	153
5/8-11	20325	159	212
3/4-10	30075	282	376
7/8-9	41550	454	606
1-8	54525	682	909
1-1/8-7	68700	966	1288
1-1/4-7	87225	1363	1817
1-3/8-6	103950	1787	2382
1-1/2-6	126450	2371	3161

Grade 8 Fine Thread

Diameter	Clamp Load	Plate (ft-lbs)	Plain (ft-lbs)
1/4-28	3263	10	14
5/16-24	5113	20	27
3/8-24	7875	37	49
7/16-20	10650	58	78
1/2-20	14400	90	120
9/16-18	18300	129	172
5/8-18	23025	180	240
3/4-16	33600	315	420
7/8-14	45825	501	668
1-14	61125	764	1019
1-1/8-12	77025	1083	1444
1-1/4-12	96600	1509	2012
1-3/8-12	118350	2034	2712
1-1/2-12	142275	2668	3557

Head Markings

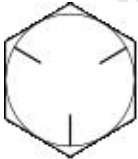
Grade 2



- 1/4 thru 3/4 is based on 6" length or shorter
- Head Marking: No Marking

Diameter	Material	Proof Load	Yield Strength	Tensile Strength
1/4 thru 3/4	AISI 1006-1050 or equiv	55,000 psi	57,000 psi	74,000 psi
7/8 thru 1-1/2	AISI 1006-1050 or equiv	33,000 psi	36,000 psi	60,000 psi

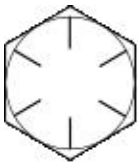
Grade 5



- Head Marking: 3 Radial Lines

Diameter	Material	Proof Load	Yield Strength	Tensile Strength
1/4 thru 1	Medium Carbon Steel	85,000 psi	92,000 psi	120,000 psi
1-1/8 thru 1-1/2	Medium Carbon Steel	74,000 psi	81,000 psi	105,000 psi

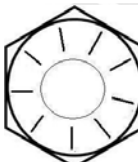
Grade 8



- Head Marking: 6 Radial Lines

Diameter	Material	Proof Load	Yield Strength	Tensile Strength
1/4 thru 1-1/2	Medium Carbon Alloy Steel	120,000 psi	130,000 psi	150,000 psi

Grade 9



- Head Marking: 9 Radial Lines

Diameter	Material	Proof Load	Yield Strength	Tensile Strength
1/4 thru 1	AISI 8637/8640/8740 Medium Carbon Alloy Steel	140,650 psi	159,500 psi	180,000 psi

A325 Type 1



- Head Marking: A325 and sometimes 3 Radial Lines

Diameter	Material	Proof Load	Yield Strength	Tensile Strength
1/2 thru 1	Carbon Steel	85,000 psi	92,000 psi	120,000 psi
1-1/8 thru 1-1/2	Carbon Steel	74,000 psi	81,000 psi	105,000 psi

A490 Type 1



- Head Marking: A490

Diameter	Material	Proof Load	Yield Strength	Tensile Strength
1/2 thru 1-1/2	Alloy Steel	120,000 psi	130,000 psi	150,000 psi

18.8/304 Stainless Steel



- Head Marking: 304

Diameter	Material	Yield Strength	Tensile Strength
1/4 thru 5/8	303,303Se,304 Stainless Steel	65,000 psi	70,000 psi min
3/4 thru 1	303,303Se,304 Stainless Steel	45,000 psi	70,000 psi min

316 Stainless Steel



- Head Marking: 316

Diameter	Material	Yield Strength	Tensile Strength
1/4 thru 5/8	316 Stainless Steel	65,000 psi	70,000 psi min
3/4 thru 1	316 Stainless Steel	45,000 psi	70,000 psi min

Thread & Cap Screw Info

Thread Pitches

- UNC= Unified National Coarse Thread
- UNF= Unified National Fine Thread

Coarse/UNC	Fine/UNF
2-56	2-64
3-48	3-56
4-40	4-48
5-40	5-44
6-32	6-40
8-32	8-36
10-24	10-32
12-24	12-28
1/4-20	1/4-28
5/16-18	5/16-24
3/8-16	3/8-24
7/16-14	7/16-20
1/2-13	1/2-20
9/16-12	9/16-18
5/8-11	5/8-18
3/4-10	3/4-16
7/8-9	7/8-14
1-8	1-14
1-1/8-7	1-1/8-12
1-1/4-7	1-1/4-12
1-3/8-6	1-3/8-12
1-1/2-6	1-1/2-12
1-3/4-5	
2-4.5	

Cap Screw Dimensions

Diameter	Head Dia/Hex	Head Height
1/4	7/16	5/32
5/16	1/2	13/64
3/8	9/16	15/64
7/16	5/8	9/32
1/2	3/4	5/16
9/16	13/16	23/64
5/8	15/16	25/64
3/4	1-1/8	15/32
7/8	1-5/16	35/64
1	1-1/2	39/64
1-1/8	1-11/16	11/16
1-1/4	1-7/8	25/32
1-1/2	2-1/4	15/16

Thread Lengths

- Shorter than 6": $2 \times \text{Dia} + 1/4"$ = Thread Length
- Longer than 6": $2 \times \text{Dia} + 1/2"$ = Thread Length

Diameter	Length Below 6"	Length Above 6"
1/4	3/4	1
5/16	7/8	1-1/8
3/8	1	1-1/4
7/16	1-1/8	1-3/8
1/2	1-1/4	1-1/2
9/16	1-3/8	1-5/8
5/8	1-1/2	1-3/4
3/4	1-3/4	2
7/8	2	2-1/4
1	2-1/4	2-1/2
1-1/8	2-1/2	2-3/4
1-1/4	2-3/4	3
1-1/2	3-1/4	3-1/2

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Weights of Fasteners

Hex Head Cap Screws

1/4 Dia

Length	Wgt/C	Pcs/Lb
3/8	1.06	94.34
1/2	1.18	84.75
5/8	1.31	76.34
3/4	1.44	69.44
7/8	1.57	63.69
1	1.74	57.47
1-1/4	2.08	48.08
1-1/2	2.43	41.15
1-3/4	2.77	36.10
2	3.12	32.05
2-1/4	3.46	28.90
2-1/2	3.81	26.25
2-3/4	4.15	24.10
3	4.50	22.22
3-1/4	4.84	20.66
3-1/2	5.19	19.27
3-3/4	5.53	18.08
4	5.88	17.01
4-1/2	6.57	15.22
5	7.26	13.77
5-1/2	7.95	12.58
6	8.64	11.57
6-1/2	9.20	10.87
7	9.80	10.20
7-1/2	10.43	9.59
8	11.20	8.93

5/16 Dia

Length	Wgt/C	Pcs/Lb
3/8	1.80	55.56
1/2	1.99	50.25
5/8	2.20	45.45
3/4	2.41	41.49
7/8	2.62	38.17
1	2.83	35.34
1-1/4	3.37	29.67
1-1/2	3.91	25.58
1-3/4	4.45	22.47
2	4.99	20.04
2-1/4	5.52	18.12
2-1/2	6.06	16.50
2-3/4	6.60	15.15
3	7.14	14.01
3-1/4	7.68	13.02
3-1/2	8.21	12.18
3-3/4	8.75	11.43
4	9.29	10.76
4-1/2	10.37	9.64
5	11.44	8.74

Length	Wgt/C	Pcs/Lb
5-1/2	12.52	7.99
6	13.59	7.36
6-1/2	14.50	6.90
7	15.60	6.41
7-1/2	16.31	6.13
8	17.41	5.74

3/8 Dia

Length	Wgt/C	Pcs/Lb
1/2	2.93	34.13
5/8	3.24	30.86
3/4	3.55	28.17
7/8	3.86	25.91
1	4.17	23.98
1-1/4	4.86	20.58
1-1/2	5.64	17.73
1-3/4	6.42	15.58
2	7.19	13.91
2-1/4	7.97	12.55
2-1/2	8.74	11.44
2-3/4	9.52	10.50
3	10.30	9.71
3-1/4	11.07	9.03
3-1/2	11.85	8.44
3-3/4	12.62	7.92
4	13.40	7.46
4-1/2	14.95	6.69
5	16.50	6.06
5-1/2	18.06	5.54
6	19.61	5.10
6-1/2	20.90	4.78
7	22.50	4.44
7-1/2	24.00	4.17
8	25.50	3.92
9	28.50	3.51
10	31.60	3.16

7/16 Dia

Length	Wgt/C	Pcs/Lb
1/2	4.20	23.81
3/4	5.08	19.69
7/8	5.50	18.18
1-1/4	6.76	14.79
1-1/2	7.82	12.79
1-3/4	8.88	11.26
2	9.94	10.06
2-1/4	11.00	9.09
2-1/2	12.06	8.29
2-3/4	13.12	7.62
3	14.18	7.05
3-1/4	15.24	6.56
3-1/2	16.30	6.13
3-3/4	17.36	5.76
4	18.41	5.43
4-1/2	20.53	4.87
5	22.65	4.42
5-1/2	24.77	4.04
6	26.89	3.72
6-1/2	28.00	3.57
7	29.85	3.35
7-1/2	32.33	3.09
8	34.00	2.94
9	38.60	2.59

1/2 Dia

Length	Wgt/C	Pcs/Lb
1/2	6.50	15.38
5/8	6.60	15.15
3/4	7.13	14.03
7/8	7.73	12.94
1	8.44	11.85
1-1/4	9.50	10.53
1-1/2	11.59	8.63
1-3/4	12.97	7.71
2	14.35	6.97
2-1/4	15.73	6.36
2-1/2	17.11	5.84
2-3/4	18.49	5.41
3	19.87	5.03
3-1/4	21.25	4.71
3-1/2	22.63	4.42
3-3/4	24.01	4.16
4	25.39	3.94
4-1/2	28.15	3.55
5	30.91	3.24
5-1/2	33.67	2.97
6	36.43	2.74
6-1/2	38.60	2.59
7	40.90	2.44
7-1/2	43.50	2.30

Length	Wgt/C	Pcs/Lb
8	46.10	2.17
8-1/2	48.80	2.05
9	51.50	1.94
9-1/2	54.20	1.85
10	57.00	1.75
12	67.60	1.48

9/16 Dia

Length	Wgt/C	Pcs/Lb
1	11.28	8.87
1-1/4	12.71	7.87
1-1/2	14.14	7.07
1-3/4	15.89	6.29
2	17.64	5.67
2-1/4	19.39	5.16
2-1/2	21.14	4.73
2-3/4	22.80	4.39
3	24.65	4.06
3-1/4	25.50	3.92
3-1/2	28.15	3.55
4	31.65	3.16
4-1/2	35.15	2.84
5	38.65	2.59
5-1/2	42.16	2.37
6	45.66	2.19
6-1/2	47.20	2.12
7	50.00	2.00
7-1/2	55.00	1.82
8	58.00	1.72

Weights of Fasteners

Hex Head Cap Screws

5/8 Dia

Length	Wgt/C	Pcs/Lb
3/4	13.50	7.41
1	15.16	6.60
1-1/4	16.93	5.91
1-1/2	18.70	5.35
1-3/4	20.66	4.84
2	22.82	4.38
2-1/4	24.97	4.00
2-1/2	27.13	3.69
2-3/4	29.28	3.42
3	31.44	3.18
3-1/4	33.59	2.98
3-1/2	35.75	2.80
3-3/4	37.90	2.64
4	40.06	2.50
4-1/2	44.37	2.25
5	48.68	2.05
5-1/2	52.99	1.89
6	57.30	1.75
6-1/2	61.60	1.62
7	65.80	1.52
7-1/2	70.00	1.43
8	74.10	1.35
8-1/2	78.30	1.28
9	82.40	1.21
9-1/2	86.60	1.15
10	90.80	1.10
11	99.10	1.01
12	107.00	0.93

3/4 Dia

Length	Wgt/C	Pcs/Lb
1	24.46	4.09
1-1/4	27.06	3.70
1-1/2	29.66	3.37
1-3/4	32.26	3.10
2	35.12	2.85
2-1/4	38.23	2.62
2-1/2	41.34	2.42
2-3/4	44.45	2.25
3	47.56	2.10
3-1/4	50.67	1.97
3-1/2	53.78	1.86
3-3/4	56.89	1.76
4	60.00	1.67
4-1/2	66.22	1.51
5	72.44	1.38
5-1/2	78.66	1.27
6	84.88	1.18
6-1/2	90.90	1.10

Length	Wgt/C	Pcs/Lb
7	96.90	1.03
7-1/2	103.00	0.97
8	109.00	0.92
8-1/2	115.00	0.87
9	121.00	0.83
9-1/2	127.00	0.79
10	133.00	0.75
11	145.00	0.69
12	158.00	0.63

7/8 Dia

Length	Wgt/C	Pcs/Lb
1-1/2	43.92	2.28
1-3/4	47.49	2.11
2	51.06	1.96
2-1/4	54.96	1.82
2-1/2	59.19	1.69
2-3/4	63.42	1.58
3	67.65	1.48
3-1/4	71.88	1.39
3-1/2	76.11	1.31
3-3/4	80.34	1.24
4	84.57	1.18
4-1/2	93.03	1.07
5	101.49	0.99
5-1/2	109.95	0.91
6	118.41	0.84
6-1/2	127.00	0.79
7	135.00	0.74
7-1/2	143.00	0.70
8	151.00	0.66
8-1/2	156.45	0.64
9	168.00	0.60
9-1/2	173.00	0.58
10	184.00	0.54
11	201.00	0.50
12	215.50	0.46

1 Dia

Length	Wgt/C	Pcs/Lb
1-1/2	60.78	1.65
1-3/4	65.46	1.53
2	70.14	1.43
2-1/4	74.82	1.34
2-1/2	79.92	1.25
2-3/4	85.44	1.17
3	90.96	1.10
3-1/4	96.48	1.04
3-1/2	102.00	0.98
3-3/4	107.52	0.93
4	113.04	0.88
4-1/2	124.08	0.81
5	135.12	0.74
5-1/2	146.16	0.68
6	157.20	0.64
6-1/2	170.00	0.59
7	180.00	0.56
7-1/2	191.00	0.52
8	202.00	0.50
8-1/2	213.00	0.47
9	223.00	0.45
9-1/2	229.55	0.44
10	245.00	0.41
11	269.30	0.37
12	288.00	0.35

Gr 5 Flat Washers USS

Dia	Wgt/C	Est Pcs/Lb
1/4	0.65	149.00
5/16	1.21	87.00
3/8	1.55	67.00
7/16	2.50	41.00
1/2	3.81	26.00
9/16	4.39	22.00
5/8	7.81	13.00
3/4	11.24	9.10
7/8	15.39	6.50
1	18.87	.30

Gr 5 Split Lock Washers

Dia	Wgt/C	Est Pcs/Lb
1/4	0.24	425.53
5/16	0.41	243.90
3/8	0.60	166.67
7/16	0.94	106.38
1/2	1.30	76.92
9/16	1.85	54.05
5/8	2.40	41.67
3/4	4.00	25.00
7/8	6.00	16.67
1	8.80	11.36

Gr 5 Hex Nuts

Dia	Wgt/C	Est Pcs/Lb
1/4	.74	136.10
5/16	1.11	90.20
3/8	1.60	62.50
7/16	2.84	35.20
1/2	3.76	26.60
9/16	5.84	17.12
5/8	7.34	13.60
3/4	11.90	8.40
7/8	19.01	5.30
1	28.31	3.50

Hex Head Cap Screws

Grade 5 Coarse Thread (USS/UNC)



- Zinc Plated
- For more specs, see the front of this section
- Rockwell: C25-C34

* Indicates fully threaded

Available in various assortments

Dia	Hex Size
1/4	7/16
5/16	1/2
3/8	9/16

Dia	Hex Size
7/16	5/8
1/2	3/4
9/16	13/16

Dia	Hex Size
5/8	15/16
3/4	1-1/8
7/8	1-5/16

Dia	Hex Size
1	1-1/2

Length	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13	9/16-12	5/8-11	3/4-10	7/8-9	1-8	Length
1/2	90000*	90060*	90120*								1/2
5/8	90002*	90062*	90122*								5/8
3/4	90004*	90064*	90124*	90184*	90244*						3/4
7/8	90006*	90066*	90126*		90246*						7/8
1	90008*	90068*	90128*	90188*	90248*	90320*	90384*	90444*			1
1-1/4	90010	90070	90130*	90190*	90250*	90322*	90386*	90446*			1-1/4
1-1/2	90012	90072	90132	90192	90252*	90324*	90388*	90448*	90510*	90570*	1-1/2
1-3/4	90014	90074	90134	90194	90254	90326	90390*	90450*	90512*		1-3/4
2	90016	90076	90136	90196	90266	90328	90392	90452*	90514*	90574*	2
2-1/4	90018	90078	90138	90198	90268	90330	90394	90454	90516*	90576*	2-1/4
2-1/2	90020	90080	90140	90200	90270	90332	90396	90456	90518	90578*	2-1/2
2-3/4	90022	90082	90142	90202	90272	90334	90398	90458	90520	90580	2-3/4
3	90024	90084	90144	90204	90274	90336	90400	90460	90522	90582	3
3-1/4	90026	90086	90146	90206	90276	90338	90402	90462	90524	90584	3-1/4
3-1/2	90028	90088	90148	90208	90278	90340	90404	90464	90526	90586	3-1/2
3-3/4	90030	90090	90150	90210	90280	90342	90406	90466	90528	90588	3-3/4
4	90032	90092	90152	90212	90282	90344	90408	90468	90530	90590	4
4-1/2	90036	90096	90156	90216	90286	90348	90412	90472	90534	90594	4-1/2
5	90040	90100	90160	90220	90290	90352	90416	90476	90538	90598	5
5-1/2	90044	90104	90164	90224	90294	90356	90420	90480	90542	90602	5-1/2
6	90048	90108	90168	90228	90298	90360	90424	90484	90546	90606	6
6-1/2			90170		90300		90426	90486	90548	90608	6-1/2
7			90172		90302		90428	90488	90550	90610	7
7-1/2			90174		90304		90430	90490	90552	90612	7-1/2
8		90116	90176		90306		90432	90492	90554	90614	8
8-1/2					90308		90434	90494	90556	90616	8-1/2
9			90180		90310		90436	90496	90558	90618	9
9-1/2			90182		90312		90438	90498	90560	90620	9-1/2
10			90183		90314		90440	90500	90562	90622	10
11					90315			90506			11
12					90316						12

Hex Head Cap Screws

Grade 5 Fine Thread (SAE/UNF)



- Zinc Plated
- For more specs, see the front of this section
- Rockwell: C25-C34

* Indicates fully threaded

Available in various assortments

Dia	Hex Size
1/4	7/16
5/16	1/2
3/8	9/16

Dia	Hex Size
7/16	5/8
1/2	3/4
9/16	13/16

Dia	Hex Size
5/8	15/16
3/4	1-1/8
7/8	1-5/16

Dia	Hex Size
1	1-1/2

Length	1/4-28	5/16-24	3/8-24	7/16-20	1/2-20	9/16-18	5/8-18	3/4-16	7/8-14	1-14	Length
1/2	90001*	90061*	90121*								1/2
5/8	90003*		90123*								5/8
3/4	90005*	90065*	90125*	90185*	90245*						3/4
7/8		90067*	90127*								7/8
1	90009*	90069*	90129*	90189*	90249*	90321*	90385*	90445*			1
1-1/4	90011	90071	90131*	90191*	90251*	90323*	90387*	90447*			1-1/4
1-1/2	90013	90073	90133	90193	90253*	90325*	90389*	90449*	90511*	90571*	1-1/2
1-3/4	90015	90075	90135	90195	90255	90327	90391*	90451*	90513*	90573*	1-3/4
2	90017	90077	90137	90197	90267	90329	90393	90453*	90515*	90575*	2
2-1/4	90019	90079	90139	90199	90269	90331	90395	90455	90517*	90577*	2-1/4
2-1/2	90021	90081	90141	90201	90271	90333	90397	90457	90519	90579*	2-1/2
2-3/4	90023	90083	90143	90203	90273	90335	90399	90459	90521	90581	2-3/4
3	90025	90085	90145	90205	90275	90337	90401	90461	90523	90583	3
3-1/4	90027	90087	90147	90207	90277	90339	90403	90463	90525	90585	3-1/4
3-1/2	90029	90089	90149	90209	90279	90341	90405	90465	90527	90587	3-1/2
3-3/4	90031	90091	90151	90211	90281	90343	90407	90467	90529	90589	3-3/4
4	90033	90093	90153	90213	90283	90345	90409	90469	90531	90591	4
4-1/2	90037	90097	90157	90217	90287	90349	90413	90473	90535	90595	4-1/2
5	90041	90101	90161	90221	90291	90353	90417	90477	90539	90599	5
5-1/2	90045	90105	90165	90225	90295	90357	90421	90481	90543	90603	5-1/2
6	90049	90109	90169	90229	90299	90361	90425	90485	90547	90607	6
6-1/2					90301		90427	90487			6-1/2
7					90303		90429	90489		90611	7
7-1/2					90305		90431				7-1/2
8					90307		90433	90493	90555	90615	8
10									90563		10

Hex Head Cap Screws

Grade 8 (1/4 thru 1) Coarse Thread (USS/UNC)



- Yellow Zinc Plated
- For more specs, see the front of this section
- Rockwell: C33-C39

* Indicates fully threaded
Available in various assortments

Dia	Hex Size
1/4	7/16
5/16	1/2
3/8	9/16

Dia	Hex Size
7/16	5/8
1/2	3/4
9/16	13/16

Dia	Hex Size
5/8	15/16
3/4	1-1/8
7/8	1-5/16

Dia	Hex Size
1	1-1/2

Length	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13	9/16-12	5/8-11	3/4-10	7/8-9	1-8	Length
1/2	92000*	92060*	92120*								1/2
3/4	92004*	92064*	92124*	92184*	92244*						3/4
1	92008*	92068*	92128*	92188*	92248*	92330*	92400*	92476*			1
1-1/4	92010	92070	92130*	92190*	92250*	92332*	92402*	92478*			1-1/4
1-1/2	92012	92072	92132	92192	92252*	92334*	92404*	92480*	92550*	92610*	1-1/2
1-3/4	92014	92074	92134	92194	92254	92336	92406*	92482*	92552*	92612*	1-3/4
2	92016	92076	92136	92196	92266	92338	92408	92484*	92554*	92614*	2
2-1/4	92018	92078	92138	92198	92268	92340	92410	92486	92556*	92616*	2-1/4
2-1/2	92020	92080	92140	92200	92270	92342	92412	92488	92558	92618*	2-1/2
2-3/4	92022	92082	92142	92202	92272	92344	92414	92490	92560	92620	2-3/4
3	92024	92084	92144	92204	92274	92346	92416	92492	92562	92622	3
3-1/4	92026	92086	92146	92206	92276	92348	92418	92494	92564	92624	3-1/4
3-1/2	92028	92088	92148	92208	92278	92350	92420	92496	92566	92626	3-1/2
3-3/4	92030	92090	92150	92210	92280	92352	92422	92498	92568	92628	3-3/4
4	92032	92092	92152	92212	92282	92354	92424	92500	92570	92630	4
4-1/2	92036	92096	92156	92216	92286	92358	92428	92504	92572	92632	4-1/2
5	92040	92100	92160	92220	92290	92362	92432	92508	92574	92634	5
5-1/2	92044	92104	92164	92224	92294	92366	92436	92512	92576	92636	5-1/2
6	92048	92108	92168	92228	92298	92370	92440	92516	92578	92638	6
6-1/2			92170	92230	92300		92442	92518	92580	92640	6-1/2
7			92172	92232	92302		92444	92520	92582	92642	7
7-1/2			92174		92304		92446	92522	92584	92644	7-1/2
8			92176	92236	92306		92448	92524	92586	92646	8
8-1/2					92308		92450	92526	92588	92648	8-1/2
9					92310		92452	92528	92590	92650	9
9-1/2					92312		92454	92530	92592	92652	9-1/2
10					92314		92456	92532	92594	92654	10
10-1/2					92316		92458	92534	92596	92656	10-1/2
11					92318		92460	92536	92598	92658	11
11-1/2					92320		92462	92538	92600	92660	11-1/2
12					92322		92464	92540	92602	92662	12

Hex Head Cap Screws

Grade 8 (1-1/8 thru 1-1/2) Coarse Thread
(USS/UNC)



- Yellow Zinc Plated
- For more specs, see the front of this section
- * Indicates fully threaded

Available in various assortments

Dia	Hex Size
1-1/8	1-11/16
1-1/4	1-7/8

Dia	Hex Size
1-1/2	2-1/4

Length	1-1/8-7	1-1/4-7	1-1/2-6
2-1/2	92697*		
3	92700	92750*	
3-1/2	92704	92754	
4	92708	92758	
4-1/2	92712	92762	
5	92716	92766	92818
5-1/2	92720	92770	92822
6	92724	92774	92824
6-1/2	92726	92776	92826
7	92728	92778	92828
7-1/2	92730	92780	92830
8	92732	92782	92832
8-1/2	92734	92784	92834
9	92736	92786	92836
9-1/2	92738	92788	92838
10	92740	92790	92840
10-1/2	92742	92792	92842
11	92744	92794	92844
11-1/2	92746	92796	92846
12	92748	92798	92848

Hex Head Cap Screws

Grade 8 (1/4 thru 1) Fine Thread (SAE/UNF)



- Yellow Zinc Plated
- For more specs, see the front of this section
- Rockwell: C33-C39

* Indicates fully threaded

Available in various assortments

Dia	Hex Size
1/4	7/16
5/16	1/2
3/8	9/16

Dia	Hex Size
7/16	5/8
1/2	3/4
9/16	13/16

Dia	Hex Size
5/8	15/16
3/4	1-1/8
7/8	1-5/16

Dia	Hex Size
1	1-1/2

Length	1/4-28	5/16-24	3/8-24	7/16-20	1/2-20	9/16-18	5/8-18	3/4-16	7/8-14	1-14	Length
1/2	92001*	92061*	92121*								1/2
3/4	92005*	92065*	92125*	92185*	92245*						3/4
1	92009*	92069*	92129*	92189*	92249*	92331*	92401*	92477*			1
1-1/4	92011	92071	92131*	92191*	92251*	92333*	92403*	92479*			1-1/4
1-1/2	92013	92073	92133	92193	92253*	92335*	92405*	92481*	92551*	92611*	1-1/2
1-3/4	92015	92075	92135	92195	92255	92337	92407*	92483*	92553*	92613*	1-3/4
2	92017	92077	92137	92197	92267	92339	92409	92485*	92555*	92615*	2
2-1/4	92019	92079	92139	92199	92269	92341	92411	92487	92557*	92617*	2-1/4
2-1/2	92021	92081	92141	92201	92271	92343	92413	92489	92559	92619*	2-1/2
2-3/4	92023	92083	92143	92203	92273	92345	92415	92491	92561	92621	2-3/4
3	92025	92085	92145	92205	92275	92347	92417	92493	92563	92623	3
3-1/4	92027	92087	92147	92207	92277	92349	92419	92495	92565	92625	3-1/4
3-1/2	92029	92089	92149	92209	92279	92351	92421	92497	92567	92627	3-1/2
3-3/4	92031	92091	92151	92211	92281	92353	92423	92499	92569	92629	3-3/4
4	92033	92093	92153	92213	92283	92355	92425	92501	92571	92631	4
4-1/2	92037	92097	92157	92217	92287	92359	92429	92505	92573	92633	4-1/2
5	92041	92101	92161	92221	92291	92363	92433	92509	92575	92635	5
5-1/2	92045	92105	92165	92225	92295	92367	92437	92513	92577	92637	5-1/2
6	92049	92109	92169	92229	92299	92371	92441	92517	92579	92639	6
6-1/2			92171	92231	92301		92443	92519	92581	92641	6-1/2
7			92173	92233	92303		92445	92521	92583	92643	7
7-1/2					92305		92447	92523	92585	92645	7-1/2
8					92307		92449	92525	92587	92647	8
8-1/2					92309		92451	92527	92589	92649	8-1/2
9					92311		92453	92529	92591	92651	9
9-1/2					92313		92455	92531	92593	92653	9-1/2
10					92315		92457	92533	92595	92655	10
10-1/2					92317					92657	10-1/2
11					92319					92659	11
11-1/2					92321					92661	11-1/2
12					92323					92663	12

Hex Head Cap Screws

Grade 8 (1-1/8 thru 1-1/4) Fine Thread
(SAE/UNF)



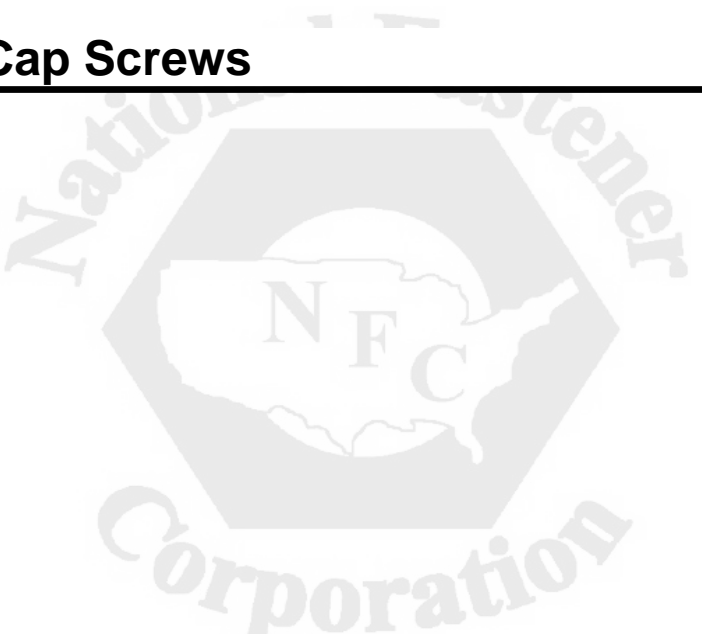
- Yellow Zinc Plated
- For more specs, see the front of this section
- * Indicates fully threaded

Available in various assortments

Dia	Hex Size
1-1/8	1-11/16

Dia	Hex Size
1-1/4	1-7/8

Length	1-1/8-12	1-1/4-12
3	92701	92751
3-1/2	92705	92755
4	92709	92759
4-1/2	92713	92763
5	92717	92767
5-1/2	92721	92771
6	92725	92775
6-1/2	92727	92777
7	92729	92779
7-1/2	92731	92781
8	92733	92783
8-1/2	92735	92785
9	92737	92787
9-1/2	92739	92789
10	92741	92791



Hex Head Cap Screws

Grade 9 Coarse Thread (USS/UNC)



- Yellow Zinc Plated
- 20% Thicker Head
- For more specs, see the front of this section
- Rockwell: C38-C42

* Indicates fully threaded

Available in various assortments

Dia	Hex Size
1/4	7/16
5/16	1/2
3/8	9/16

Dia	Hex Size
7/16	5/8
1/2	3/4
9/16	13/16

Dia	Hex Size
5/8	15/16
3/4	1-1/8
7/8	1-5/16

Dia	Hex Size
1	1-1/2

Length	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13	9/16-12	5/8-11	3/4-10	7/8-9	1-8	Length
1/2	09000*	09060*									1/2
3/4	09004*	09064*	09124*								3/4
1	09008*	09068*	09128*	09188*	09248*						1
1-1/4	09010	09070	09130*	09190*	09250*		09390*				1-1/4
1-1/2	09012	09072	09132	09192	09252*	09322*	09392*	09462*			1-1/2
1-3/4	09014	09074	09134	09194	09254		09394*	09464*			1-3/4
2	09016	09076	09136	09196	09256	09326	09396	09466*	09536*	09606*	2
2-1/4			09138		09258		09398	09468			2-1/4
2-1/2	09020	09080	09140	09200	09260	09330	09400	09470	09540	09610*	2-1/2
3	09024	09084	09144	09204	09264	09334	09404	09474	09544	09614	3
3-1/2		09088	09148	09208	09268	09338	09408	09478	09548	09618	3-1/2
4	09032	09092	09152	09212	09272	09342	09412	09482	09552	09622	4
4-1/2			09156		09276		09416	09486	09556	09626	4-1/2
5			09158	09218	09278	09348	09418	09488	09558	09628	5
5-1/2							09420	09490	09560	09630	5-1/2
6			09162	09222	09282		09422	09492	09562	09632	6
7					09286		09426	09496	09566	09636	7
8					09290		09430	09500	09570	09640	8
9							09434	09504	09574	09644	9
10							09438	09508	09578	09648	10
12							09446	09516	09586	09656	12

Grade 9 Hex Nuts



Item ID	Dia	WAF	Thickness
09700	1/4-20	7/16	17/64
09702	5/16-18	1/2	5/16
09704	3/8-16	9/16	3/8
09706	7/16-14	11/16	7/16
09708	1/2-13	3/4	33/64
09712	5/8-11	15/16	21/32
09714	3/4-10	1-1/8	49/64
09716	7/8-9	1-5/16	57/64
09718	1-8	1-1/2	1-1/64

Bolts

Grade 2 Carriage Bolts



- Zinc plated
- ASTM A307 Low carbon steel: 60,000 PSI min tensile strength
- Rockwell: B70-B100
- Fully threaded to shoulder
- * *Not* fully threaded

Length	10-24	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13	5/8-11	3/4-10	Length
5/8		93003							5/8
3/4	92980	93001	93030	93061					3/4
1	92982	93002	93032	93062	93092	93132			1
1-1/4	92984	93004	93034	93064	93094	93134			1-1/4
1-1/2	92986	93006	93036	93066	93096	93136			1-1/2
1-3/4	92988	93007	93037	93067		93137			1-3/4
2		93008	93038	93068	93098	93138	93168	93190	2
2-1/4		93009	93039	93069					2-1/4
2-1/2	92991	93010	93040	93070	93100	93140	93170	93191	2-1/2
3		93012	93042	93072	93102	93142	93172	93192	3
3-1/2		93014	93044	93074	93104	93144	93174	93193	3-1/2
4		93016	93046	93076	93106	93146	93176	93194	4
4-1/2		93018	93048	93078	93108	93148	93178	93195	4-1/2
5		93020	93050	93080	93120	93150	93180	93196	5
5-1/2		93022	93052	93082	93122	93152	93182	93197	5-1/2
6		93024	93054	93084	93124	93154	93184	93198	6
6-1/2			93055*	93085*		93155*			6-1/2
7				93086*		93156*	93186*		7
7-1/2				93087*					7-1/2
8		93028*	93058*	93088*		93158*	93188*		8
8-1/2				93089*		93159*			8-1/2
9			93060*	93090*		93160*			9
10				93091*		93162*			10
11						93164*			11
12				92900*		93166*			12

Grade 2 Ribbed Neck Carriage Bolts



- Zinc plated
- ASTM A307 Low carbon steel: 60,000 PSI min tensile strength

Item ID	Diam	Length
93288	3/8-16	1-1/4
93289	3/8-16	1-1/2
93290	3/8-16	1-3/4

Bolts

Grade 5 Carriage Bolts



- Zinc plated
- Medium carbon steel: 120,000 PSI tensile strength
- Rockwell: C25-C34
- Fully threaded to shoulder

Length	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13	5/8-11	3/4-10	Length
3/4	98004	98054	98104					3/4
1	98008	98058	98108	98158	98208			1
1-1/4	98010	98060	98110	98160	98210			1-1/4
1-1/2	98012	98062	98112	98162	98212	98262		1-1/2
1-3/4	98014	98064	98114	98164	98214			1-3/4
2	98016	98066	98116	98166	98216	98266		2
2-1/4	98018	98068	98118	98168	98218			2-1/4
2-1/2	98020	98070	98120	98170	98220	98270	98320	2-1/2
3	98021	98074	98124	98174	8224	98274	98328	3
3-1/4					98226			3-1/4
3-1/2	98023	98076	98128	98178	98228	98278	98328	3-1/2
4	98022	98078	98132	98182	98232	98282	98332	4
4-1/2	98024	98080	98134		98236	98286	98336	4-1/2
5	98026	98082	98136		98238	98288	98338	5
5-1/2	98028	98084	98138		98240	98290	98340	5-1/2
6	98030	98086	98140		98242	98292	98342	6

Bolts

Step Bolts



- Zinc plated
- Low profile head
- Rockwell: B70-B100

Length	1/4-20	5/16-18	3/8-16
3/4	92859		
1	92860	92866	
1-1/4	92861	92867	92872
1-1/2	92862	92868	92873
2	92863	92869	92874
2-1/2	92864	92870	92875
3	92865	92871	92876

Elevator Bolts



- Zinc plated
- Fully threaded to shoulder
- Rockwell: B70-B100

Length	1/4-20	5/16-18	3/8-16
1	93424		
1-1/4	93426	93438	93444
1-1/2	93428	93436	93446
1-3/4			93447
2	93432	93440	93448
2-1/2	93434	93442	93449
3	93435		93451

Spring Center Bolts



- Plain finish
- Grade 2
- Unslotted fillister head
- * Special High Head

Item ID	Diam	Length
93400	5/16-24	6
93402	3/8-24	6
93403	3/8-24	10
93404	7/16-20	6
93405	7/16-20	8
93407	1/2-20	8
93408	1/2-20	12
93409*	1/2-20	12

Grade 5 Whiz Bolts



- Zinc plated
- Grade 5 case hardened
- 120,000 PSI tensile strength
- Rockwell: C40 min
- Serrated flange

Length	1/4-20	5/16-18	3/8-16	1/2-13
3/8	93395			
1/2	93398	93396		
3/4	93399	93415	93419	
7/8	93410			
1	93412	93416	93420	
1-1/4		93417	93421	93441
1-1/2		93418	93422	
1-3/4	93414			

Bolts

Grade 5 Plow Bolts



- Zinc plated, Grade 5 SAE J429
- 120,000 PSI tensile strength
- Rockwell: C25-C34
- #3 Dome head
- * Plain finish

Length	3/8-16	7/16-14	1/2-13	5/8-11
1	93450	93480	93510*	
1-1/4	93452	93482	93512*	
1-1/2	93454	93484	93514	93544
1-3/4	93456	93486	93516	93546*
2	93458	93488	93518	93548
2-1/4	93460	93490	93520*	93550*
2-1/2	93462*	93492	93522	93552*
2-3/4		93494*		
3	93468*	93496	93526	93556*
3-1/2		93498*	93528	93558*
4		93500*	93530*	93560*

Grade 8 Hex Flange Bolts



- Phosphate & oil finish
- Grade 8 heat treated
- 150,000 PSI tensile strength
- Rockwell: C33-C39

Coarse Thread (USS/UNC)

Length	3/8-16	1/2-13	5/8-11	3/4-10
1	93300	93312		
1-1/4	93302	93314		
1-1/2	93304	93316	93338	
1-3/4	93306	93318	93340	93380
2		93320	93342	93382
2-1/4		93322	93344	93384
2-1/2		93324	93346	93386
2-3/4		93326	93348	93388
3		93328	93350	93390
3-1/4		93330	93352	
3-1/2		93332	93354	93394
4			93356	

Fine Thread (SAE/UNF)

Item ID	Diam	Length
93353	5/8-18	3-1/2

Grade 8 Plow Bolts



- Phosphate & oil finish, Grade 8 SAE J429
- 150,000 PSI tensile strength
- Rockwell: C33-C39
- #3 Dome head

Length	5/8-11	3/4-10	7/8-9
2	96316	96332	
2-1/4	96317		
2-1/2	96318	96334	96350
3	96320	96336	
3-1/2	96322		
4	96324		96356
4-1/2	96326		
5			96358

Flange Lock Nuts



- Phosphate & oil finish

Coarse Thread (USS/UNC)

Item ID	Diam
93360	3/8-16
93364	1/2-13
93368	5/8-11
93370	3/4-10

Fine Thread (SAE/UNF)

Item ID	Diam
93369	5/8-18
93371	3/4-16

12-Point Flange Bolts



- Plain finish
- 170,000 PSI tensile strength

Item ID	Diam	Length
91960	3/8-16	1-1/4

Bolts

Shoulder Bolts



- Polished shoulder/ black finish
- Alloy steel
- 140,000 PSI tensile strength
- Rockwell: C32-C43

1/4" Shoulder- 1/8 Hex Key

Item ID	Shoulder Length	Thread	Thread Length
93600	3/8	10-24	3/8
93601	1/2	10-24	3/8
93602	5/8	10-24	3/8
93603	3/4	10-24	3/8
93604	1	10-24	3/8
93605	1-1/4	10-24	3/8
93606	1-1/2	10-24	3/8

5/16" Shoulder- 5/32 Hex Key

Item ID	Shoulder Length	Thread	Thread Length
93618	3/8	1/4-20	7/16
93619	1/2	1/4-20	7/16
93620	5/8	1/4-20	7/16
93621	3/4	1/4-20	7/16
93622	1	1/4-20	7/16
93623	1-1/4	1/4-20	7/16
93624	1-1/2	1/4-20	7/16
93625	1-3/4	1/4-20	7/16
93626	2	1/4-20	7/16

3/8" Shoulder- 3/16 Hex Key

Item ID	Shoulder Length	Thread	Thread Length
93637	3/8	5/16-18	1/2
93638	1/2	5/16-18	1/2
93639	5/8	5/16-18	1/2
93640	3/4	5/16-18	1/2
93641	1	5/16-18	1/2
93642	1-1/4	5/16-18	1/2
93643	1-1/2	5/16-18	1/2
93644	1-3/4	5/16-18	1/2
93645	2	5/16-18	1/2
93646	2-1/4	5/16-18	1/2
93647	2-1/2	5/16-18	1/2
93648	2-3/4	5/16-18	1/2
93649	3	5/16-18	1/2
93650	3-1/4	5/16-18	1/2
93651	3-1/2	5/16-18	1/2

1/2" Shoulder- 1/4 Hex Key

Item ID	Shoulder Length	Thread	Thread Length
93656	1/2	3/8-16	5/8
93657	5/8	3/8-16	5/8
93658	3/4	3/8-16	5/8
93659	1	3/8-16	5/8
93660	1-1/4	3/8-16	5/8
93661	1-1/2	3/8-16	5/8
93662	1-3/4	3/8-16	5/8
93663	2	3/8-16	5/8
93664	2-1/4	3/8-16	5/8
93665	2-1/2	3/8-16	5/8
93666	2-3/4	3/8-16	5/8
93667	3	3/8-16	5/8
93668	3-1/4	3/8-16	5/8
93669	3-1/2	3/8-16	5/8
93670	3-3/4	3/8-16	5/8
93671	4	3/8-16	5/8
93673	4-1/2	3/8-16	5/8

5/8" Shoulder- 5/16 Hex Key

Item ID	Shoulder Length	Thread	Thread Length
93676	3/4	1/2-13	3/4
93679	1	1/2-13	3/4
93680	1-1/4	1/2-13	3/4
93681	1-1/2	1/2-13	3/4
93682	1-3/4	1/2-13	3/4
93683	2	1/2-13	3/4
93685	2-1/4	1/2-13	3/4
93684	2-1/2	1/2-13	3/4
93686	2-3/4	1/2-13	3/4
93688	3	1/2-13	3/4
93689	3-1/2	1/2-13	3/4
93690	4	1/2-13	3/4
93692	4-1/2	1/2-13	3/4

3/4" Shoulder- 3/8 Hex Key

Item ID	Shoulder Length	Thread	Thread Length
93578	1-1/4	5/8-11	7/8
93587	1-1/2	5/8-11	7/8
93588	2	5/8-11	7/8
93589	2-1/4	5/8-11	7/8
93590	2-1/2	5/8-11	7/8
93591	2-3/4	5/8-11	7/8
93592	3	5/8-11	7/8
93594	3-1/2	5/8-11	7/8
93595	3-3/4	5/8-11	7/8
93596	4	5/8-11	7/8
93597	4-1/2	5/8-11	7/8
93599	5	5/8-11	7/8

Socket Screws

Socket Head Cap Screws (#2 thru 7/16)



- Black oxide, Alloy steel
- 180,000 PSI thru 1/2, 170,000 PSI 5/8 and larger Rockwell: C37 min

Available in various assortments

Dia	Hex Key
#2	5/64
#4	3/32
#5	3/32

Dia	Hex Key
#6	7/64
#8	9/64
#10	5/32

Dia	Hex Key
1/4	3/16
5/16	1/4
3/8	5/16

Dia	Hex Key
7/16	3/8

Coarse Thread (USS/UNC)

Length	2-56	4-40	5-40	6-32	8-32	10-24	1/4-20	5/16-18	3/8-16	7/16-14	Length
1/4	91018	90950		91000	91050						1/4
3/8	91020	90952	91026	91002	91052	91102	91202	91252			3/8
1/2	91022	90954	91028	91004	91054	91104	91204	91254	91304	91354	1/2
5/8		90956	91030	91006	91056	91106	91206	91256	91306	91356	5/8
3/4		90958	91032	91008	91058	91108	91208	91258	91308	91358	3/4
7/8				91010	91060	91110	91210	91260	91310	91360	7/8
1		90960	91034	91012	91062	91112	91212	91262	91312	91362	1
1-1/4					91064	91114	91214	91264	91314	91364	1-1/4
1-1/2				91016	91066	91116	91216	91266	91316	91366	1-1/2
1-3/4					91068	91118	91218	91268	91318	91368	1-3/4
2						91120	91220	91270	91320	91370	2
2-1/4							91222	91272	91322	91372	2-1/4
2-1/2						91122	91224	91274	91324	91374	2-1/2
2-3/4						91124	91226	91276	91326	91376	2-3/4
3							91228	91278	91328	91378	3
3-1/4								91280	91330	91380	3-1/4
3-1/2							91232	91282	91332	91382	3-1/2
4							91234		91334	91384	4
4-1/2							91236		91336		4-1/2
5							91238		91338		5

Fine Thread (SAE/UNF)

Length	10-32	1/4-28	5/16-24	3/8-24	7/16-20	Length
1/4	91101					1/4
3/8	91103	91203				3/8
1/2	91105	91205	91255	91305		1/2
5/8	91107	91207	91257	91307		5/8
3/4	91109	91209	91259	91309		3/4
7/8	91111	91211	91261	91311		7/8
1	91113	91213	91263	91313	91363	1
1-1/4	91115	91215	91265	91315	91365	1-1/4
1-1/2	91117	91217	91267	91317	91367	1-1/2
1-3/4	91119	91219	91269	91319		1-3/4
2	91121	91221	91271	91321	91371	2
2-1/4		91223	91273	91323		2-1/4
2-1/2			91275	91325		2-1/2
2-3/4	91125					2-3/4
3	91127	91229	91279	91329		3

Socket Screws

Socket Head Cap Screws (1/2 thru 1-1/4)



- Black oxide, Alloy steel
- 180,000 PSI thru 1/2,
170,000 PSI 5/8 and larger

Dia	Hex Key
1/2	3/8
5/8	1/2
3/4	5/8

Dia	Hex Key
7/8	3/4
1	3/4
1-1/4	7/8

Coarse Thread (USS/UNC)

Length	1/2-13	5/8-11	3/4-10	7/8-9	1-8	1-1/4-7
5/8	91406					
3/4	91408					
7/8	91410					
1	91412	91462				
1-1/4	91414	91464	91514			
1-1/2	91416	91466	91516			
1-3/4	91418	91468	91518			
2	91420	91470	91520	91570	91594	
2-1/4	91422	91472	91522	91572	91610	
2-1/2	91424	91474	91524	91574	91595	
2-3/4	91426	91476	91526	91576		
3	91428	91478	91528	91578	91596	
3-1/4	91431	90802	90804			
3-1/2	91430	91480	91530	91580	91597	
4	91432	91482	91532	91582	91598	91620
4-1/2	91434	91484	91534	91584	91599	
5	91436	91486	91536	91586	91600	
5-1/2	91438	91488	91538	91588	91602	
6	91440	91490	91540	91590	91604	91622
6-1/2	91442	91492	91542	91592	91606	
7	91444	91494	91544	91593	91608	91624
7-1/2	91446	91496				
8	91448	91498				

Fine Thread (SAE/UNF)

Length	1/2-20	5/8-18
1	91413	91463
1-1/4	91415	91465
1-1/2	91417	91467
1-3/4	91419	91469
2	91421	91471
2-1/4	91423	
2-1/2	91425	91475
3	91429	

Socket Screws

Button Socket Head Cap Screws



- Black oxide, Alloy steel
- Rockwell: C37-C44
- 145,000 PSI thru 1/2, 135,000 PSI 5/8 and larger

Dia	Hex Key
#2	3/64
#4	1/16
#6	5/64

Dia	Hex Key
#8	3/32
#10	1/8
1/4	5/32

Dia	Hex Key
5/16	3/16
3/8	7/32
1/2	5/16

Dia	Hex Key
5/8	3/8

Coarse Thread (USS/UNC)

Length	2-56	4-40	6-32	8-32	10-24	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	Length
3/16	93700										3/16
1/4	93702	93726	93738	93750	93760						1/4
3/8	93704	93728	93740	93752	93762	93782	93800				3/8
1/2	93706	93730	93742	93754	93764	93784	93802	93826			1/2
5/8			93744	93756	93766	93786	93806	93828			5/8
3/4			93746	93758	93768	93788	93808	93830			3/4
7/8						93790	93810	93832			7/8
1			93748	93759	93772	93792	93812	93834	93854		1
1-1/4					93774	93794	93814	93836	93856		1-1/4
1-1/2						93796	93816	93838	93858		1-1/2
2								93842	93860	93862	2

Fine Thread (SAE/UNF)

Length	10-32	1/4-28	5/16-24	Length
1/4	93761			1/4
3/8	93763	93783		3/8
1/2	93765	93785		1/2
5/8	93767		93818	5/8
3/4	93769	93789		3/4
7/8	93771			7/8
1	93773	93793	93820	1
1-1/4	93775	93795		1-1/4
1-1/2	93777			1-1/2
2	93779			2

Socket Screws

Flat Socket Head Cap Screws



- Black oxide, Alloy steel
- Rockwell: C37-C44
- 145,000 PSI thru 1/2, 135,000 PSI 5/8 and larger

Dia	Hex Key
#4	1/16
#6	5/64
#8	3/32

Dia	Hex Key
#10	1/8
1/4	5/32
5/16	3/16

Dia	Hex Key
3/8	7/32
7/16	1/4
1/2	5/16

Dia	Hex Key
5/8	3/8
3/4	1/2

Coarse Thread (USS/UNC)

Length	4-40	6-32	8-32	10-24	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13	5/8-11	3/4-10	Length
1/4	91650	91670										1/4
3/8	91652	91672	91698	91724	91774							3/8
1/2	91654	91674	91700	91726	91776	91800	91828					1/2
5/8	91656	91676	91704	91728	91778	91802	91832					5/8
3/4	91658	91678	91706	91730	91780	91804	91830	91854	91880			3/4
1		91682	91708	91734	91784	91808	91834	91856	91884			1
1-1/4				91736	91786	91810	91836	91858	91886	91910		1-1/4
1-1/2				91738	91788	91812	91838	91860	91888	91912		1-1/2
1-3/4					91790	91814	91840	91862	91890	91914		1-3/4
2					91792	91816	91842	91864	91892	91916		2
2-1/4						91818	91844		91898	91917		2-1/4
2-1/2						91820	91846		91894	91918		2-1/2
3							91848		91896	91920	91950	3

Fine Thread (SAE/UNF)

Length	10-32	1/4-28	5/16-24	3/8-24	1/2-20	Length
3/8	91725	91775				3/8
1/2	91727	91777	91801			1/2
5/8	91729	91779	91803	91833		5/8
3/4	91731	91781	91805	91831	91881	3/4
1	91735	91785	91809	91835	91885	1
1-1/4	91737	91787	91811	91837	91887	1-1/4
1-1/2	91739	91789	91813	91839	91889	1-1/2
1-3/4					91891	1-3/4
2					91893	2
2-1/2		91795				2-1/2

Socket Screws

Socket Set Screws Cup Point



- Black with oil finish, Alloy steel
- Cup Point
- Rockwell: C45-C53

Dia	Hex Key
#6	1/16
#8	5/64
#10	3/32

Dia	Hex Key
1/4	1/8
5/16	5/32
3/8	3/16

Dia	Hex Key
7/16	7/32
1/2	1/4
5/8	5/16

Dia	Hex Key
3/4	3/8
7/8	1/2
1	9/16

Coarse Thread (USS/UNC)

Length	6-32	8-32	10-24	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13	5/8-11	3/4-10	7/8-9	1-8	Length
1/8	97500	97522											1/8
3/16	97502	97524	97544	97566									3/16
1/4	97504	97526	97546	97568	97588	97608							1/4
5/16	97506	97528	97548	97570	97590	97610							5/16
3/8	97508	97530	97550	97572	97592	97612	97630						3/8
7/16	97510	97532	97552	97574	97594	97614	97632						7/16
1/2	97512	97534	97554	97576	97596	97616	97634	97650	97672				1/2
5/8	97514	97536	97556	97578	97598	97618	97636	97652	97674				5/8
3/4	97516	97538	97558	97580	97600	97620		97654	97676				3/4
7/8	97518	97540	97560	97582	97602	97622	97640	97656	97678		97712		7/8
1	97520	97542	97562	97584	97604	97624	97642	97658	97680	97698	97714	97728	1
1-1/4			97564	97586	97606	97626	97644	97660	97682	97700	97716		1-1/4
1-1/2							97628	97646	97662	97684	97702	97718	97730
1-3/4								97664	97686	97704			1-3/4
2							97648	97666	97688	97706	97722	97734	2
2-1/2								97668	97690	97708	97724	97736	2-1/2
3								97670	97692	97710	97726	97738	3

Fine Thread (SAE/UNF)

Length	6-40	8-36	10-32	1/4-28	5/16-24	3/8-24	7/16-20	1/2-20	Length
1/8	97501	97523							1/8
3/16	97503	97525	97545	97567					3/16
1/4	97505	97527	97547	97569	97589				1/4
5/16	97507	97529	97549	97571	97591				5/16
3/8	97509	97531	97551	97573	97593	97613	97631		3/8
7/16			97553	97575	97595	97615	97633		7/16
1/2		97535	97555	97577	97597	97617	97635	97651	1/2
5/8			97557	97579	97599	97619		97653	5/8
3/4			97559	97581	97601	97621	97639	97655	3/4
7/8									7/8
1			97563	97585	97605	97625		97659	1
1-1/4			97565	97587	97607	97627			1-1/4
1-1/2						97629		97663	1-1/2

Socket Screws

Socket Set Screw Knurled Point



- Black with oil finish, Alloy steel
- Knurled Point
- Rockwell: C45-C53

Length	6-32	8-32	10-24	1/4-20	5/16-18	3/8-16	1/2-13	Length
1/4	97230	97244	97258	97272				1/4
5/16				97274	97288			5/16
3/8				97276	97290	97304		3/8
1/2			97264	97278	97292	97306	97324	1/2
5/8				97280	97294	97308	97326	5/8
3/4		97254	97268	97282	97296	97310	97328	3/4
1				97284	97298		97330	1

Square Head Set Screws



- Case hardened steel
- Plain finish
- Rockwell: B80

Length	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13	5/8-11	3/4-10	7/8-9	1-8	Length
1/2	97001	97021	97041							1/2
5/8	97002									5/8
3/4	97003	97023	97043		97083					3/4
1	97005	97025	97045	97065	97085	97105	97135			1
1-1/4	97007	97027	97047							1-1/4
1-1/2	97009	97029	97049	97069	97089	97109	97139			1-1/2
1-3/4										1-3/4
2	97011	97031	97051		97091	97111	97141	97171	97201	2
2-1/4	97013				97093					2-1/4
2-1/2	97015	97035	97055		97095	97115	97145	97175	97205	2-1/2
3	97017	97037	97057		97097	97117	97147	97177	97207	3
3-1/2						97119		97179	97209	3-1/2
4					97099	97121	97151	97181	97211	4
4-1/2							97153	97183	97213	4-1/2
5						97123	97155	97185	97215	5
6								97187	97217	6

Threaded Rod



Low Carbon: Zinc plated
Tensile Strength: 50,000 PSI

B7: Plain finish
Tensile Strength: 120,000 PSI

Low Carbon: Zinc plated
Tensile Strength: 50,000 PSI

B7: Plain finish
Tensile Strength: 120,000 PSI

Stainless Steel 18.8
Tensile Strength: 70,000 PSI

3 Foot- Coarse Thread (USS/UNC)

Dia	Low Carbon	B7
4-40	93869	
5-40	93870	
6-32	93871	
8-32	93872	
10-24	93900	
12-24	93873	
1/4-20	93902	93931-3
5/16-18	93904	93932-3
3/8-16	93906	93933-3
7/16-14	93908	93934-3
1/2-13	93910	93935-3
9/16-12	93912	93936-3
5/8-11	93914	93937-3
3/4-10	93916	93938-3
7/8-9	93918	93939-3
1-8	93920	93940-3
1-1/8-7	93922	93941-3
1-1/4-7	93924	93942-3
1-3/8-6		93943-3
1-1/2-6	93928	93944-3

3 Foot- Fine Thread (SAE/UNF)

Dia	Low Carbon	B7
10-32	93901	
1/4-28	93903	98503-3
5/16-24	93905	98505-3
3/8-24	93907	98507-3
7/16-20	93909	98509-3
1/2-20	93911	98511-3
9/16-18	93913	98513-3
5/8-18	93915	98515-3
3/4-16	93917	98517-3
7/8-14	93919	98519-3
1-14	93921	98521-3
1-1/8-12	93923	
1-1/4-12	93925	98525-3
1-3/8-12		98527-3
1-1/2-12		98529-3

6 Foot- Coarse Thread (USS/UNC)

Dia	Low Carbon	B7	Stainless Steel
10-24			93970
1/4-20	93882	93931	93971
5/16-18	93884	93932	93972
3/8-16	93886	93933	93973
7/16-14	93888	93934	93974
1/2-13	93890	93935	93975
5/8-11	93892	93937	93977
3/4-10	93894	93938	93978
7/8-9	93896	93939	93979
1-8	93898	93940	93980
1-1/8-7		93941	
1-1/4-7		93942	
1-3/8-6		93943	
1-1/2-6	93899	93944	

6 Foot- Fine Thread (SAE/UNF)

Dia	B7
5/16-24	98505
3/8-24	98507

12 Foot- Coarse Thread (USS/UNC)

Dia	Low Carbon
3/8-16	93984
1/2-13	93985
5/8-11	93986
3/4-10	93987

Threaded Rod

3 Foot- Left Hand- Coarse Thread (USS/UNC) Coupling Nuts



Low Carbon: Zinc plated
Tensile Strength: 50,000 PSI

Left Hand Thread

Dia	Low Carbon
1/4-20	93951
5/16-18	93952
3/8-16	93953
7/16-14	93954
1/2 - 13	93955
5/8-11	93957
3/4-10	93958
7/8-9	93959
1-8	93960

1 Meter- Coarse Thread



Low Carbon Class 4.6: Zinc plated
Din 975
Tensile Strength: 58,000 PSI

Dia	Class 4.6
M4-.70	93874
M5-.80	93989
M6-1.0	93990
M8-1.25	93991
M10-1.5	93992
M12-1.75	93875
M16-2.0	93877



- Zinc plated

Item ID	Dia	Height	WAF
94948	10 - 24	3/4	5/16
94950	1/4 - 20	7/8	3/8
94951	1/4 - 20	1-3/4	7/16
94952	5/16 - 18	7/8	1/2
94953	5/16 - 18	1-3/4	5/8
94954	3/8 - 16	1-1/8	1/2
94955	3/8 - 16	1-3/4	9/16
94956	7/16 - 14	1-1/4	9/16
94957	7/16 - 14	1-3/4	5/8
94959	1/2 - 13	1-1/4	5/8
94958	1/2 - 13	1-3/4	11/16
94960	5/8 - 11	2-1/8	13/16
94962	3/4 - 10	2-1/4	1
94964	7/8 - 9	2-1/2	1-1/4
94966	1 - 8	2-3/4	1-3/8

Oil Hardening Drill Rod



- AISI O1 Drill Rod
- O1 is a standard type of oil-hardening tool steel. It is suitable for all general purpose tools and dies which require a safer and deeper hardening steel than the carbon, water-hardening types.

Item ID	Dia	Length
93993	3/16 (#10)	3 ft.
93994	1/4	3 ft.
93995	5/16	3 ft.
93996	3/8	3 ft.
93997	7/16	3 ft.
93998	1/2	3 ft.
93999	5/8	3 ft.
93965	3/4	3 ft.
93966	7/8	3 ft.
93967	1	3 ft.

Nuts

Grade 2 Hex Nuts



- Zinc plated
- Proof Load: 90,000 PSI
- Rockwell: B68-C32

Coarse Thread (USS/UNC)

Item ID	Dia	WAF	Thk
94000	1/4-20	7/16	7/32
94002	5/16-18	1/2	17/64
94004	3/8-16	9/16	21/64
94006	7/16-14	11/16	3/8
94008	1/2-13	3/4	7/16
94010	9/16-12	7/8	31/64
94012	5/8-11	15/16	35/64
94014	3/4-10	1-1/8	41/64
94016	7/8-9	1-5/16	3/4
94018	1-8	1-1/2	55/64
94020	1-1/8-7	1-11/16	31/32
94022	1-1/4-7	1-7/8	1-1/16
94024	1-3/8-6	2-1/16	1-11/64
94026	1-1/2-6	2-1/4	1-9/32
94028	1-5/8-5	2-7/16	1-25/64
94030	1-3/4-5	2-5/8	1-1/2
94032	2-4.5	3	1-23/32

- Proof Load: 80,000 PSI

Fine Thread (SAE/UNF)

Item ID	Dia	WAF	Thk
94001	1/4-28	7/16	7/32
94003	5/16-24	1/2	17/64
94005	3/8-24	9/16	21/64
94007	7/16-20	11/16	3/8
94009	1/2-20	3/4	7/16
94011	9/16-18	7/8	31/64
94013	5/8-18	15/16	35/64
94015	3/4-16	1-1/8	41/64
94017	7/8-14	1-5/16	3/4
94019	1-14	1-1/2	55/64
94021	1-1/8-12	1-11/16	31/32
94023	1-1/4-12	1-7/8	1-1/16
94027	1-1/2-12	2-1/4	1-9/32
94031	1-3/4-12	2-5/8	1-1/2
94033	2-12	3	1-23/32

Grade 5 Hex Nuts



- Zinc plated
- Proof Load: 120,000 PSI (1/4 thru 1)
105,000 PSI (1-1/8 & 1-1/4)
- Rockwell: C32 max

Markings: 2 circumferential lines located 120° apart

Coarse Thread (USS/UNC)

Item ID	Dia	WAF	Thk
94140	1/4-20	7/16	7/32
94142	5/16-18	1/2	17/64
94144	3/8-16	9/16	21/64
94146	7/16-14	11/16	3/8
94148	1/2-13	3/4	7/16
94150	9/16-12	7/8	31/64
94152	5/8-11	15/16	35/64
94154	3/4-10	1-1/8	41/64
94156	7/8-9	1-5/16	3/4
94158	1-8	1-1/2	55/64
94160	1-1/8-7	1-11/16	31/32
94162	1-1/4-7	1-7/8	1-1/16

- Proof Load: 109,000 PSI (1/4 thru 1)

Fine Thread (SAE/UNF)

Item ID	Dia	WAF	Thk
94141	1/4-28	7/16	7/32
94143	5/16-24	1/2	17/64
94145	3/8-24	9/16	21/64
94147	7/16-20	11/16	3/8
94149	1/2-20	3/4	7/16
94151	9/16-18	7/8	31/64
94153	5/8-18	15/16	35/64
94155	3/4-16	1-1/8	41/64
94157	7/8-14	1-5/16	3/4
94159	1-14	1-1/2	55/64

Grade 8 Hex Nuts



- Yellow zinc plated
- Proof Load: 150,000 PSI
- Rockwell: C24-C36

Markings: 2 circumferential lines located 60° apart

Coarse Thread (USS/UNC)

Item ID	Dia	WAF	Thk
94100	1/4-20	7/16	7/32
94102	5/16-18	1/2	17/64
94104	3/8-16	9/16	21/64
94106	7/16-14	11/16	3/8
94108	1/2-13	3/4	7/16
94110	9/16-12	7/8	31/64
94112	5/8-11	15/16	35/64
94114	3/4-10	1-1/8	41/64
94116	7/8-9	1-5/16	3/4
94118	1-8	1-1/2	55/64
94120	1-1/8-7	1-11/16	31/32
94122	1-1/4-7	1-7/8	1-1/16
94126	1-1/2-6	2-1/4	1-9/32

Fine Thread (SAE/UNF)

Item ID	Dia	WAF	Thk
94101	1/4-28	7/16	7/32
94103	5/16-24	1/2	17/64
94105	3/8-24	9/16	21/64
94107	7/16-20	11/16	3/8
94109	1/2-20	3/4	7/16
94111	9/16-18	7/8	31/64
94113	5/8-18	15/16	35/64
94115	3/4-16	1-1/8	41/64
94117	7/8-14	1-5/16	3/4
94119	1-14	1-1/2	55/64
94121	1-1/8-12	1-11/16	31/32
94123	1-1/4-12	1-7/8	1-1/16
94127	1-1/2-12	2-1/4	1-9/32

Nuts

Grade 2 Heavy Hex Nuts



- Zinc plated
- Grade 2
- Proof Load: 100,000 PSI
- Rockwell: B68-C32

Item ID	Dia	WAF	Thk
94072	5/16-18	9/16	19/64
94074	3/8-16	11/16	23/64
94078	1/2-13	7/8	31/64
94080	5/8-11	1-1/16	39/64
94082	3/4-10	1-1/4	47/64
94084	7/8-9	1-7/16	55/64
94086	1-8	1-5/8	63/64
94088	1-1/4-7	2	1-7/32
94090	1-1/2-6	2-3/8	1-15/32

Grade 2H Heavy Hex Nuts



- Plain Finish
- A 194 Grade 2H
- Proof Load: 150,000 PSI
- Rockwell: C24-C38

Item ID	Dia	WAF	Thk
94228	1/4-20	1/2	15/64
94230	5/16-18	9/16	19/64
94232	3/8-16	11/16	23/64
94234	1/2-13	7/8	31/64
94236	5/8-11	1-1/16	39/64
94238	3/4-10	1-1/4	47/64
94240	7/8-9	1-7/16	55/64
94242	1-8	1-5/8	63/64
94244	1-1/8-7	1-13/16	1-7/64
94246	1-1/4-7	2	1-7/32

Grade C Heavy Hex Nuts



- Plain Finish
- Grade C
- Proof Load: 144,000 PSI
- Rockwell: B78-C38

Item ID	Dia	WAF	Thk
94260	5/8-11	1-1/16	39/64
94262	3/4-10	1-1/4	47/64
94264	7/8-9	1-7/16	55/64
94266	1-8	1-5/8	63/64

Grade 5 High Hex Nuts



- Plain finish
- Grade 5

Item ID	Dia	WAF	Thk
94051	3/8-24	9/16	17/32
94053	7/16-20	5/8	39/64
94055	1/2-20	3/4	11/16
94057	9/16-18	7/8	49/64

Grade 8 High Hex Nuts



- Plain finish
- Grade 8

Item ID	Dia	WAF	Thk
94175	5/8-18	15/16	27/32
94177	3/4-16	1-1/16	1
94179	7/8-14	1-1/4	1-5/32
94180	1-14	1-7/16	1-5/16

Grade 2 Left Hand Thread Hex Nuts



- Plain finish
- Proof Load: 90,000 PSI
- Left hand thread
- * Zinc plated

Coarse Thread (USS/UNC)

Item ID	Dia	WAF	Thk
94700	1/4-20	7/16	7/32
94702	5/16-18	1/2	17/64
94704	3/8-16	9/16	21/64
94706	7/16-14	11/16	3/8
94708*	1/2-13	3/4	7/16
94710	9/16-12	7/8	31/64
94712*	5/8-11	15/16	35/64
94714	3/4-10	1-1/8	41/64
94716	7/8-9	1-5/16	3/4
94718	1-8	1-1/2	55/64

Fine Thread (SAE/UNF)

Item ID	Dia	WAF	Thk
94701	1/4-28	7/16	7/32
94703	5/16-24	1/2	17/64
94705	3/8-24	9/16	21/64
94707	7/16-20	11/16	3/8
94709	1/2-20	3/4	7/16
94711	9/16-18	7/8	31/64
94713	5/8-18	15/16	35/64
94715	3/4-16	1-1/8	41/64
94717	7/8-14	1-5/16	3/4
94719	1-14	1-1/2	55/64

Nuts

Grade 2 Hex Jam Nuts



- Zinc plated
- Proof Load: 54,000 PSI
- Rockwell: B68-C32

Coarse Thread (USS/UNC)

Item ID	Dia	WAF	Thk
94500	1/4-20	7/16	5/32
94502	5/16-18	1/2	3/16
94504	3/8-16	9/16	7/32
94506	7/16-14	11/6	1/4
94508	1/2-13	3/4	5/16
94510	9/16-12	7/8	5/16
94512	5/8-11	15/16	3/8
94514	3/4-10	1-1/8	27/64
94516	7/8-9	1-5/16	31/64
94518	1-8	1-1/2	35/64
94520	1-1/8-7	1-11/16	39/64
94522	1-1/4-7	1-7/8	23/32
94526	1-1/2-6	2-1/4	27/32

- Proof Load: 48,000 PSI

Fine Thread (SAE/UNF)

Item ID	Dia	WAF	Thk
94501	1/4-28	7/16	5/32
94503	5/16-24	1/2	3/16
94505	3/8-24	9/16	7/32
94507	7/16-20	11/16	1/4
94509	1/2-20	3/4	5/16
94511	9/16-18	7/8	5/16
94513	5/8-18	15-16	3/8
94515	3/4-16	1-1/8	27/64
94517	7/8-14	1-5/16	31/64
94519	1-14	1-1/2	35/64
94521	1-1/8-12	1-11/16	39/64
94523	1-1/4-12	1-7/8	23/32
94527	1-1/2-12	2-1/4	27/32

Grade 5 Left Hand Thread Jam Nuts



- Plain finish
- Grade 5
- Left hand thread

**Zinc plated*

Item ID	Dia	WAF	Thk
94729*	1/2-20	3/4	5/16
94731	5/8-18	15/16	3/8
94734	3/4-16	1-1/8	27/64

Thin Nylon Insert Lock Nuts



- Zinc plated
- Rockwell: C28 max

Coarse Thread (USS/UNC)

Item ID	Dia	WAF	Thk
94550	1/4-20	7/16	13/64
94552	5/16-18	1/2	1/4
94554	3/8-16	9/16	17/64
94556	7/16-14	5/8	5/16
94558	1/2-13	3/4	5/16
94562	5/8-11	15/16	25/64
94564	3/4-10	1-1/8	13/32
94566	7/8-9	1-1/4	15/32
94568	1-8	1-7/16	35/64
94570	1-1/8-7	1-5/8	41/64

Fine Thread (SAE/UNF)

Item ID	Dia	WAF	Thk
94551	1/4-28	7/16	13/64
94553	5/16-24	1/2	1/4
94555	3/8-24	9/16	17/64
94559	1/2-20	3/4	5/16
94563	5/8-18	15/16	25/64
94565	3/4-16	1-1/8	13/32
94567	7/8-14	1-1/4	15/32
94569	1-14	1-7/16	35/64
94571	1-1/8-12	1-5/8	41/64

Nuts

Nylon Insert Lock Nuts



- Zinc plated
- Proof Load: 90,000 PSI
- Rockwell: C28 max

Coarse Thread (USS/UNC)

Item ID	Dia	WAF	Thk
94298	4-40	1/4	9/64
94300	6-32	5/16	11/64
94302	8-32	11/32	7/32
94304	10-24	3/8	15/64
94306	1/4-20	7/16	5/16
94308	5/16-18	1/2	11/32
94310	3/8-16	9/16	29/64
94312	7/16-14	5/8	29/64
94314	1/2-13	3/4	19/32
94316	9/16-12	7/8	41/64
94318	5/8-11	15/16	3/4
94320	3/4-10	1-1/16	7/8
94322	7/8-9	1-1/4	63/64
94324	1-8	1-7/16	1-3/64
94326	1-1/8-7	1-5/8	1-11/64
94328	1-1/4-7	1-13/16	1-25/64
94330	1-3/8-6	2	1-37/64
94332	1-1/2-6	2-3/16	1-39/64
94340	2-4.5	3-9/64	2-13/32

Fine Thread (SAE/UNF)

Item ID	Dia	WAF	Thk
94305	10-32	3/8	15/64
94307	1/4-28	7/16	5/16
94309	5/16-24	1/2	11/32
94311	3/8-24	9/16	29/64
94313	7/16-20	5/8	29/64
94315	1/2-20	3/4	19/32
94317	9/16-18	7/8	41/64
94319	5/8-18	15/16	3/4
94321	3/4-16	1-1/16	7/8
94323	7/8-14	1-1/4	63/64
94325	1-14	1-7/16	1-3/64
94327	1-1/8-12	1-5/8	1-11/64
94329	1-1/4-12	1-13/16	1-25/64
94331	1-3/8-12	2	1-37/64
94333	1-1/2-12	2-3/16	1-39/64
94341	2-12	3-9/64	2-13/32

Grade 8 Nylon Insert Lock Nuts



- Yellow zinc plated
- Proof Load: 150,000 PSI
- Rockwell: C26-C34

Coarse Thread (USS/UNC)

Item ID	Dia	WAF	Thk
94572	1/4-20	7/16	5/16
94574	5/16-18	1/2	11/32
94576	3/8-16	9/16	29/64
94578	7/16-14	5/8	29/64
94580	1/2-13	3/4	19/32
94582	9/16-12	7/8	41/64
94584	5/8-11	15/16	3/4
94586	3/4-10	1-1/16	7/8
94588	7/8-9	1-1/4	63/64
94590	1-8	1-7/16	1-3/64

Fine Thread (SAE/UNF)

Item ID	Dia	WAF	Thk
94573	1/4-28	7/16	5/16
94575	5/16-24	1/2	11/32
94577	3/8-24	9/16	29/64
94579	7/16-20	5/8	29/64
94581	1/2-20	3/4	19/32
94583	9/16-18	7/8	41/64
94585	5/8-18	15/16	3/4
94587	3/4-16	1-1/16	7/8
94589	7/8-14	1-1/4	63/64
94591	1-14	1-7/16	1-3/64

Grade 8 High Nylon Insert Lock Nuts



- Plain finish
- Proof Load: 150,000 PSI

Item ID	Dia	WAF	Thk
94391	1/2-20	3/4	13/16
94393	5/8-18	15/16	1
94395	3/4-16	1-1/16	1-1/4
94397	7/8-14	1-1/4	1-7/16

Grade 8 Crown Lock Nuts



- Clear zinc & wax finish
- Proof Load: 150,000 PSI
- Rockwell: C24-C34

Coarse Thread (USS/UNC)

Item ID	Dia	WAF	Thk
94400	1/4-20	7/16	7/32
94402	5/16-18	1/2	17/64
94404	3/8-16	9/16	21/64
94406	7/16-14	11/16	3/8
94408	1/2-13	3/4	7/16
94410	9/16-12	7/8	31/64
94412	5/8-11	15/16	35/64
94414	3/4-10	1-1/8	41/64
94416	7/8-9	1-5/16	47/64
94418	1-8	1-1/2	55/64
94422	1-1/8-7	1-11/16	61/64
94420	1-1/4-7	1-7/8	1-1/32
94424	1-1/2-6	2-1/4	1-1/4

Fine Thread (SAE/UNF)

Item ID	Dia	WAF	Thk
94401	1/4-28	7/16	7/32
94403	5/16-24	1/2	17/64
94405	3/8-24	9/16	21/64
94407	7/16-20	11/16	3/8
94409	1/2-20	3/4	7/16
94411	9/16-18	7/8	31/64
94413	5/8-18	15/16	35/64
94415	3/4-16	1-1/8	41/64
94417	7/8-14	1-5/16	47/64
94419	1-14	1-1/2	55/64
94423	1-1/8-12	1-11/16	61/64
94421	1-1/4-12	1-7/8	1-1/32
94425	1-1/2-12	2-1/4	1-1/4

Nuts

2-Way Lock Nuts



- Zinc plated
- Two-way reversible
- Proof Load: 90,000 PSI
- Rockwell: C28 max

Item ID	Dia	WAF	Thk
94350	1/4-20	7/16	7/32
94352	5/16-18	1/2	17/64
94354	3/8-16	9/16	21/64
94356	7/16-14	11/16	3/8
94358	1/2-13	3/4	7/16
94360	5/8-11	15/16	35/64
94362	3/4-10	1-1/8	41/64
94364	7/8-9	1-5/16	3/4
94366	1-8	1-1/2	55/64

Spin Lock Nuts



- Zinc plated
- Case hardened

Coarse Thread (USS/UNC)

Item ID	Dia	WAF	Flange Dia
94774	8-32	11/32	5/32
94776	10-24	3/8	1/2
94778	1/4-20	7/16	19/32
94780	5/16-18	1/2	43/64
94782	3/8-16	9/16	3/4
94784	7/16-14	11/16	15/16
94786	1/2-13	3/4	1-1/32
94251*	1/2-13	3/4	1-1/32
94788	5/8-11	15/16	1-9/32
94790	3/4-10	1-1/8	1-1/2

Keys Nuts



- Zinc plated
- Free spinning ext tooth lockwasher

Coarse Thread (USS/UNC)

Item ID	Dia	WAF
94750	6-32	5/16
94752	8-32	11/32
94754	10-24	3/8
94756	1/4-20	7/16
94758	5/16-18	1/2
94760	3/8-16	9/16

Fine Thread (SAE/UNF)

Item ID	Dia	WAF
94755	10-32	3/8
94757	1/4-28	7/16
94759	5/16-24	1/2
94761	3/8-24	9/16

Fine Thread (SAE/UNF)

Item ID	Dia	WAF	Flange Dia
94777	10-32	3/8	1/2
94781	5/16-24	1/2	43/64
94783	3/8-24	9/16	3/4

Spin Lock Nuts- Large Flange



- Black phosphate
- Large flange

Item ID	Dia	WAF	Flange Dia
94248	1/4-20	7/16	11/16
94249	5/16-18	1/2	13/16
94250	3/8-16	9/16	7/8

Nuts

Slotted Hex Nuts



- Zinc plated
- Proof Load: 72,000 PSI
- Rockwell: C32 max

Coarse Thread (USS/UNC)

Item ID	Dia	WAF	Thk
94600	1/4-20	7/16	7/32
94602	5/16-18	1/2	17/64
94604	3/8-16	9/16	21/64
94606	7/16-14	11/16	3/8
94608	1/2-13	3/4	7/16
94610	9/16-12	7/8	31/64
94612	5/8-11	15/16	35/64
94614	3/4-10	1-1/8	41/64
94616	7/8-9	1-5/16	3/4
94618	1-8	1-1/2	55/64
94620	1-1/8-7	1-11/16	31/32
94624	1-1/4-7	1-7/8	1-1/16

Fine Thread (SAE/UNF)

Item ID	Dia	WAF	Thk
94601	1/4-28	7/16	7/32
94603	5/16-24	1/2	17/64
94605	3/8-24	9/16	21/64
94607	7/16-20	11/16	3/8
94609	1/2-20	3/4	7/16
94611	9/16-18	7/8	31/64
94613	5/8-18	15/16	35/64
94615	3/4-16	1-1/8	41/64
94617	7/8-14	1-5/16	3/4
94619	1-14	1-1/2	55/64
94621	1-1/8-12	1-11/16	31/32
94625	1-1/4-12	1-7/8	1-1/16

Castle Nuts



- Zinc plated, low carbon steel
- Rockwell: C32 max

Item ID	Dia	WAF	Thk
94651	1/4-28	7/16	9/23
94653	5/16-24	1/2	21/64
94655	3/8-24	9/16	13/32
94657	7/16-20	11/16	29/64
94659	1/2-20	3/4	9/16
94661	9/16-18	7/8	39/64
94663	5/8-18	15/16	23/32
94665	3/4-16	1-1/8	13/16
94667	7/8-14	1-5/16	29/32
94669	1-14	1-1/2	1
94671	1-1/8-12	1-11/16	1-5/32
94673	1-1/4-12	1-7/8	1-1/4

Grade 2 Square Nuts



- Zinc plated
- Proof Load: 90,000 PSI

Item ID	Dia	WAF	Thk
94200	1/4-20	7/16	7/32
94202	5/16-18	9/16	17/64
94204	3/8-16	5/8	21/64
94206	7/16-14	3/4	3/8
94208	1/2-13	13/16	7/16
94212	5/8-11	1	35/64
94214	3/4-10	1-1/8	21/32

3-Prong Tee Nuts



- Zinc plated, low carbon steel
- 3-Prong

Item ID	Dia	Barrel Height	Barrel Dia
94801	10 - 32	5/16	.243
94804	1/4 - 20	5/16	.305
94806	5/16 - 18	3/8	.390
94808	3/8 - 16	7/16	.440

Cap Nuts



- Zinc plated, low carbon steel
- Also known as an acorn nut

Coarse Thread (USS/UNC)

Item ID	Dia	WAF	Height
94900	6-32	5/16	1/4
94902	8-32	5/16	1/4
94904	10-24	3/8	9/32
94906	1/4-20	7/16	21/64
94908	5/16-18	9/16	3/8
94910	3/8-16	5/8	27/64
94912	1/2-13	3/4	9/16

Fine Thread (SAE/UNF)

Item ID	Dia	WAF	Height
94905	10-32	3/8	9/32
94909	5/16-24	9/16	3/8
94911	3/8-24	5/8	27/64

Wing Nuts



- Zinc plated
- Carbon steel, cold forged

Coarse Thread (USS/UNC)

Item ID	Dia	Wing Spread
94850	6-32	21/32
94852	8-32	27/32
94854	10-24	27/32
94856	1/4-20	1-1/16
94858	5/16-18	1-7/32
94860	3/8-16	1-13/32
94862	7/16-14	1-13/16
94864	1/2-13	1-13/16

Fine Thread (SAE/UNF)

Item ID	Dia	Wing Spread
94855	10-32	27/32
94857	1/4-28	1-1/16

Washers

Grade 5 Flat Washers



- Zinc plated
- Low carbon steel
- Larger outside diameter
- Used with grade 5 fasteners

USS Pattern

Item ID	Bolt Size	I.D.	O.D.	Thickness	Est Qty/Lb
95004	#10 (3/16)	1/4	9/16	.036/.065	361
95008	1/4	5/16	3/4	.051/.080	149
95010	5/16	3/8	7/8	.064/.104	87
95012	3/8	7/16	1	.064/.104	67
95014	7/16	1/2	1-1/4	.064/.104	41
95016	1/2	9/16	1-3/8	.086/.132	26
95018	9/16	5/8	1-1/2	.086/.132	22
95020	5/8	11/16	1-3/4	.108/.160	13
95022	3/4	13/16	2	.122/.177	9.1
95024	7/8	15/16	2-1/4	.136/.192	6.5
95026	1	1-1/16	2-1/2	.136/.192	5.3
95028	1-1/8	1-1/4	2-3/4	.136/.192	4.5
95030	1-1/4	1-3/8	3	.136/.192	3.8
95032	1-3/8	1-1/2	3-1/4	.153/.213	3
95034	1-1/2	1-5/8	3-1/2	.153/.213	2.6
95036	1-3/4	1-7/8	4	.153/.213	2
95038	2	2-1/8	4-1/2	.153/.213	1.6

- Smaller outside diameter

SAE Pattern

Item ID	Bolt Size	I.D.	O.D.	Thickness	Est Qty/Lb
94999	#2	3/32	7/32	.025/.040	2100
95000	#4	1/8	5/16	.025/.040	1665
95001	#6 (1/8)	5/32	3/8	.036/.065	790
95003	#8 (5/32)	3/16	7/16	.036/.065	590
95005	#10 (3/16)	7/32	1/2	.036/.065	455
95007	#12	1/4	9/16	.051/.080	294
95009	1/4	9/32	5/8	.051/.080	222
95011	5/16	11/32	11/16	.051/.080	195
95013	3/8	13/32	13/16	.051/.080	140
95015	7/16	15/32	59/64	.051/.080	110
95017	1/2	17/32	1-1/16	.074/.121	56
95019	9/16	19/32	1-3/16	.074/.121	45
95021	5/8	21/32	1-5/16	.074/.121	37
95023	3/4	13/16	1-1/2	.108/.160	21
95025	7/8	15/16	1-3/4	.108/.160	15.5
95027	1	1-1/16	2	.108/.160	11.7
95029	1-1/8	1-3/16	2-1/4	.108/.160	9.2
95031	1-1/4	1-5/16	2-1/2	.136/.192	6.7
95033	1-3/8	1-7/16	2-3/4	.136/.192	5.5
95035	1-1/2	1-9/16	3	.153/.213	4.6

Washers

Grade 8 Flat Washers



- Yellow zinc plated
- Through hardened
- Rockwell C38-45
- Larger outside diameter
- Used with grade 8 fasteners

USS Pattern

Item ID	Bolt Size	I.D.	O.D.	Thickness
95108	1/4	5/16	3/4	.051/.080
95110	5/16	3/8	7/8	.064/.104
95112	3/8	7/16	1	.064/.104
95114	7/16	1/2	1-1/4	.064/.104
95116	1/2	9/16	1-3/8	.086/.132
95118	9/16	5/8	1-1/2	.086/.132
95120	5/8	21/32	1-3/4	.108/.160
95122	3/4	13/16	2	.122/.177
95124	7/8	15/16	2-1/4	.136/.192
95126	1	1-1/16	2-1/2	.136/.192
95128	1-1/8	1-1/4	2-3/4	.136/.192
95130	1-1/4	1-3/8	3	.136/.192
95132	1-3/8	1-1/2	3-1/4	.136/.192
95134	1-1/2	1-5/8	3-1/2	.153/.213



- Smaller outside diameter

SAE Pattern

Item ID	Bolt Size	I.D.	O.D.	Thickness
95109	1/4	9/32	5/8	.051/.080
95111	5/16	11/32	11/16	.051/.080
95113	3/8	13/32	13/16	.051/.080
95115	7/16	15/32	59/64	.051/.080
95117	1/2	17/32	1-1/16	.074/.121
95119	9/16	19/32	1-3/16	.074/.121
95121	5/8	21/32	1-5/16	.108/.146
95123	3/4	13/16	1-15/32	.122/.177
95125	7/8	15/16	1-3/4	.136/.177
95127	1	1-1/16	2	.136/.177
95129	1-1/8	1-1/4	2-1/4	.146/.177
95131	1-1/4	1-3/8	2-1/2	.136/.177
95135	1-1/2	1-5/8	3	.136/.177

Washers

Grade 8 Extra Thick Flat Washers



- Yellow zinc plated
- Through hardened medium carbon steel
- Rockwell C38-45
- Larger outside diameter
- Used with A325, A490, and grade 8 fasteners
- Made in USA

USS Pattern

Item ID	Bolt Size	I.D.	O.D.	Thickness
95150	1/4	5/16	3/4	.090/.110
95152	5/16	3/8	7/8	.090/.110
95154	3/8	7/16	1	.110/.126
95156	7/16	1/2	1-1/4	.110/.126
95160	1/2	9/16	1-3/8	.156/.188
95167	5/8	11/16	1-3/4	.170/.195
95168	3/4	13/16	2	.170/.195
95170	7/8	15/16	2-1/4	.235/.265
95171	1	1-1/16	2-1/2	.235/.265

- Smaller outside diameter

SAE Pattern

Item ID	Bolt Size	I.D.	O.D.	Thickness
95151	1/4	9/32	5/8	.090/.110
95153	5/16	11/32	11/16	.090/.110
95155	3/8	13/32	13/16	.110/.126
95157	7/16	15/32	59/64	.110/.126
95159	1/2	17/32	1-1/16	.156/.188
95163	5/8	21/32	1-5/16	.170/.195
95164	3/4	13/16	1-15/32	.170/.195
95165	7/8	15/16	1-3/4	.235/.265
95166	1	1-1/16	2	.235/.265

Washers

Fender Washers



- Zinc plated
- Low carbon steel

Item ID	Bolt Size	I.D.	O.D.	Thickness
95194	#8 (1/8)	5/32	9/16	.036/.080
95195	#8 (1/8)	5/32	5/8	.036/.080
95199	#10 (3/16)	7/32	3/4	.036/.080
95200	#10 (3/16)	7/32	1	.036/.080
95202	#10 (3/16)	7/32	1-1/4	.036/.080
95204	1/4	9/32	1	.036/.132
95206	1/4	9/32	1-1/4	.036/.132
95208	1/4	9/32	1-1/2	.036/.132
95210	5/16	11/32	1-1/4	.036/.132
95212	5/16	11/32	1-1/2	.036/.132
95213	3/8	13/32	1-1/4	.036/.132
95214	3/8	13/32	1-1/2	.036/.132
95216	3/8	13/32	1-3/4	.036/.132
95219	1/2	17/32	1-3/4	.051/.080
95218	1/2	17/32	2	.051/.080

Extra Thick Fender Washers



- Zinc plated
- Low carbon steel
- Extra thick

Item ID	Bolt Size	I.D.	O.D.	Thickness
95224	1/4	9/32	1	1/8
95226	1/4	9/32	1-1/2	1/8
95228	5/16	11/32	1-1/4	1/8
95230	5/16	11/32	1-3/4	1/8
95232	3/8	13/32	1-1/4	1/8
95234	3/8	13/32	1-3/4	1/8
95236	1/2	17/32	2	1/8
95220	1/2	17/32	2-1/2	3/16

Nylon Flat Washers



- Nylon

Item ID	Bolt Size	I.D.	O.D.	Thickness
95054	1/4	.257	3/4	.062
95055	5/16	.318	3/4	.062
95056	3/8	.380	3/4	.062
95057	7/16	.516	1-1/4	.062
95058	1/2	.516	1-1/4	.062

Washers

Split Lock Washers



- Zinc plated, low carbon steel
- Rockwell: C38-C46
- Used with grade 5 fasteners

Item ID	Bolt Size	Thk
95300	#4	.025
95301	#6	.031
95302	#8	.040
95303	#10 (3/16)	.047
95304	#12	.056
95305	1/4	.062
95306	5/16	.078
95307	3/8	.094
95308	7/16	.109
95309	1/2	.125
95310	9/16	.141
95311	5/8	.156
95312	3/4	.188
95313	7/8	.219
95314	1	.250
95315	1-1/8	.281
95316	1-1/4	.312
95317	1-3/8	.344
95318	1-1/2	.375

Grade 8 Split Lock Washers



- Yellow zinc alloy steel
- Rockwell: C34-C46
- Used with grade 8 fasteners

Item ID	Bolt Size	Thk
95350	1/4	.062
95351	5/16	.078
95352	3/8	.094
95353	7/16	.109
95354	1/2	.125
95355	9/16	.141
95356	5/8	.156
95357	3/4	.188
95358	7/8	.219
95359	1	.250
95360	1-1/8	.281
95361	1-1/4	.312
95362	1-1/2	.458

High Collar Split Lock Washers



- Plain with oil-dipped finish
- Rockwell: C38-C46

Item ID	Bolt Size	Thk
95375	#10 (3/16)	.047
95377	1/4	.078
95378	5/16	.093
95379	3/8	.125
95380	7/16	.140
95381	1/2	.172
95382	5/8	.203
95383	3/4	.218
95384	7/8	.234
95385	1	.250

Internal Tooth Lock Washers



- Zinc plated
- Rockwell: C40-C50

Item ID	Bolt Size
95450	#4
95451	#6
95452	#8
95453	#10
95454	#12
95455	#14 (1/4)
95456	5/16
95457	3/8
95458	7/16
95459	1/2
95460	5/8
95461	3/4
95462	7/8

External Tooth Lock Washers



- Zinc plated
- Rockwell: C40-C50

Item ID	Bolt Size
95400	#4
95401	#6
95402	#8
95403	#10
95404	#12
95405	#14 (1/4)
95406	5/16
95407	3/8
95408	7/16
95409	1/2
95410	5/8
95411	3/4
95412	7/8

Int/Ext Tooth Lock Washers



- Zinc plated
- Rockwell: C40-C50

Item ID	Bolt Size
95551	#6
95552	#8
95553	#10
95555	#14 (1/4)
95556	5/16
95557	3/8
95558	7/16
95559	1/2
95560	5/8

Stainless Steel

Hex Head Cap Screws 316



- 316 Stainless steel
- More corrosion resistant than 18-8
- 65,000 PSI minimum tensile strength
- Rockwell: C80-C32

Item ID	Dia	Length
101002	1/4-20	3/4
101004	1/4-20	1
101008	1/4-20	1-1/2
101014	1/4-20	2
101018	1/4-20	2-1/2
101052	5/16-18	3/4
101054	5/16-18	1
101056	5/16-18	1-1/4
101058	5/16-18	1-1/2
101062	5/16-18	2
101066	5/16-18	2-1/2
101100	3/8-16	3/4
101102	3/8-16	1
101104	3/8-16	1-1/4
101106	3/8-16	1-1/2
101110	3/8-16	2
101114	3/8-16	2-1/2
101150	7/16-14	1
101152	7/16-14	1-1/4
101154	7/16-14	1-1/2
101158	7/16-14	2
101162	7/16-14	2-1/2
101196	1/2-13	1
101198	1/2-13	1-1/4
101200	1/2-13	1-1/2
101204	1/2-13	2
101208	1/2-13	2-1/2
101250	5/8-11	1-1/4
101252	5/8-11	1-1/2
101256	5/8-11	2
101260	5/8-11	2-1/2
101264	5/8-11	3
101276	5/8-11	3-1/2
101278	5/8-11	4
101324	3/4-10	4

Hex Nuts 316



Item ID	Dia	WAF	Thk
101534	1/4-20	7/16	7/32
101536	5/16-18	1/2	17/64
101538	3/8-16	9/16	21/64
101540	7/16-14	11/16	3/8
101542	1/2-13	3/4	7/16
101544	5/8-11	15/16	35/64
101546	3/4-10	1-1/8	41/64
101550	1-8	1-1/2	55/64

2-Way Lock Nut 316



Item ID	Dia	WAF	Thk
101620	1/4-20	7/16	7/32

Flat Washers 316



Item ID	Bolt Size	I.D.	O.D.	Thk
101680	1/4	.281	.625	.045/.055
101682	5/16	.344	.750	.045/.055
101684	3/8	.406	.875	.045/.055
101686	7/16	.469	1.125	.057/.067
101688	1/2	.563	1.25	.057/.067
101690	5/8	.688	1.50	.074/.084
101692	3/4	.812	1.75	.074/.084

Split Lock Washers 316



Item ID	Bolt Size	Thk
101722	1/4	.062
101723	5/16	.078
101724	3/8	.094
101734	7/16	.109
101736	1/2	.125
101737	5/8	.156
101738	3/4	.188

Stainless Steel

Hex Head Cap Screws 18-8



- 18-8 Stainless steel
- 65,000 PSI minimum tensile strength
- Rockwell: B80-C32

Coarse Thread (USS/UNC)

Length	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13	5/8-11	3/4-10	7/8-9	1-8	Length
1/2	100000	100050	100098							1/2
3/4	100002	100052	100100	100148	100194					3/4
1	100004	100054	100102	100150	100196	100248	100300			1
1-1/4	100006	100056	100104	100152	100198	100250	100302			1-1/4
1-1/2	100008	100058	100106	100154	100200	100252	100304			1-1/2
1-3/4	100012	100060	100108		100202	100254				1-3/4
2	100014	100062	100110	100158	100204	100256	100308	100356	100400	2
2-1/4			100112		100206					2-1/4
2-1/2	100018	100066	100114	100162	100208	100260	100312	100360	100404	2-1/2
2-3/4					100210					2-3/4
3	100022	100070	100118	100166	100212	100264	100316	100364	100408	3
3-1/2	100026	100074	100122	100170	100216	100268	100320	100368	100412	3-1/2
4	100030	100078	100126	100174	100220	100272	100324	100372	100416	4
4-1/2	100032	100080	100128	100176	100222	100274	100326	100374	100418	4-1/2
5	100034	100082	100130	100178	100224	100276	100328	100376	100420	5
5-1/2	100036	100084		100180	100226	100278	100330	100378	100422	5-1/2
6	100038	100086	100134	100182	100228	100280	100332	100380	100424	6
8-1/2						100290				8-1/2
9						100292				9

Fine Thread (SAE/UNF)

Length	5/16-24	3/8-24	1/2-20	Length
1	100055	100103		1
1-1/4		100105		1-1/4
1-1/2			100201	1-1/2

Stainless Steel

Carriage Bolts 18-8



- 18-8 Stainless steel
- 65,000 PSI minimum tensile strength
- Rockwell: B95-C32

Length	1/4-20	5/16-18	3/8-16
1	100803	100832	100862
1-1/4	100804		
1-1/2	100806	100836	100866
1-3/4			100867
2	100808	100838	100868
2-1/4			100869
2-1/2	100810	100840	100870
2-3/4		100841	
3	100812	100842	100872
3-1/2			100874
4	100816	100846	100876

Sidewalk Bolt 18-8



- 18-8 Stainless steel
- Also known as shutter screws
- 80,000 PSI minimum tensile strength

Item ID	Dia	Length	Head Dia	Head Height
102990	1/4-20	1	.755	.110

Stainless Steel

Socket Head Cap Screws 18-8



- 18-8 Stainless steel
- 70,000 PSI tensile strength
- Rockwell: B80 min

Coarse Thread (USS/UNC)

Length	4-40	6-32	8-32	10-24	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10	Length
1/4	101820										1/4
3/8	101822	101834	101850	101866	101886						3/8
1/2	101824	101836	101852	101868	101888	101922	101952				1/2
5/8	101826	101838	101854	101870	101890						5/8
3/4		101840	101856	101872	101892	101924	101956				3/4
7/8				101874	101894	101926					7/8
1		101844	101858	101876	101896	101928	101958	102022			1
1-1/4		101845	101860	101878	101898	101930	101960	102024			1-1/4
1-1/2		101846	101862	101880	101900	101932	101962	102026	102068		1-1/2
1-3/4					101902						1-3/4
2				101884	101904	101936	101966	102030			2
2-1/4							101968				2-1/4
2-1/2					101908	101940	101970	102034			2-1/2
3					101912	101944	101974	102038		102118	3
3-1/2						101948	101978				3-1/2
4					101920		101982	102046			4
4-1/2							101984	102048			4-1/2

Fine Thread (SAE/UNF)

Length	10-32	1/4-28	3/8-24	Length
5/16	101865			5/16
3/8	101867			3/8
1/2	101869	101889		1/2
5/8	101871			5/8
3/4	101873	101893		3/4
1	101877	101897	101959	1
1-1/4	101879		101961	1-1/4
1-1/2	101881		101963	1-1/2
2	101885			2

Stainless Steel

Button Socket Head Cap Screw 18-8



- 18-8 Stainless steel
- 70,000 PSI tensile strength

Length	4-40	8-32	10-24	10-32	1/4-20	5/16-18	3/8-16	1/2-13	Length
1/4	102161		102198						1/4
3/8		102182	102200	102201					3/8
1/2			102202	102203	102214	102258	102230		1/2
5/8			102204	102205					5/8
3/4		102186	102206	102207	102218	102260	102234		3/4
1			102210	102211	102222	102262	102238	102246	1
1-1/4					102224	102264	102240		1-1/4
1-1/2					102226	102266	102242	102250	1-1/2
2							102244		2

Flat Socket Head Cap Screw 18-8



- 18-8 Stainless steel
- 70,000 PSI tensile strength

Length	6-32	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	3/8-16	1/2-13	Length
1/4	102284	102306								1/4
5/16	102285									5/16
3/8	102286	102308	102316	102317						3/8
1/2	102288	102310	102318	102319	102334	102335		102370		1/2
3/4	102290	102312	102320	102321	102336		102352	102372	102402	3/4
1	102292	102314	102322	102323	102338		102354	102374	102404	1
1-1/4	102294	102315	102324	102325	102340		102356	102376	102406	1-1/4
1-1/2	102296	102303	102326	102327	102342		102358	102378	102408	1-1/2
2					102346		102362			2
2-1/2								102386		2-1/2

Stainless Steel

Socket Set Screw Cup Point 18-8



- 18-8 Stainless steel
- Cup Point
- Rockwell B80

Coarse Thread (USS/UNC)

Length	6-32	8-32	10-24	1/4-20	5/16-18	3/8-16	1/2-13	Length
1/8	102470							1/8
3/16	102472	102494		102536				3/16
1/4	102474	102496	102516	102538	102558	102580		1/4
5/16				102540	102560	102582		5/16
3/8	102478	102500	102520	102542	102562	102584		3/8
1/2	102482	102504	102524	102546	102566	102588		1/2
5/8						102590		5/8
3/4					102570	102594		3/4
1				102554	102574	102598	102636	1
1-1/4				102556				1-1/4
1-1/2							102640	1-1/2

Fine Thread (SAE/UNF)

Length	6-40	8-36	10-32	1/4-28	5/16-24	3/8-24	1/2-20	Length
1/8			102513					1/8
3/16	102473	102495						3/16
1/4	102475	102497	102517	102539				1/4
5/16					102561			5/16
3/8	102479	102501	102521	102543	102563			3/8
1/2			102525		102567	102589	102629	1/2
3/4			102529					3/4

Stainless Steel

Hex Nuts 18-8



- 18-8 Stainless Steel
- Proof Load:
100,000 PSI (1/4 thru 5/8)
85,000 PSI (3/4 thru 1-1/2)

Coarse Thread (USS/UNC)

Item ID	Dia	WAF	Thk
100523	3-48	3/16	1/16
100524	4-40	1/4	3/32
100526	6-32	5/16	7/64
100528	8-32	11/32	1/8
100530	10-24	3/8	1/8
100532	12-24	7/16	5/32
100534	1/4-20	7/16	7/32
100536	5/16-18	1/2	17/64
100538	3/8-16	9/16	21/64
100540	7/16-14	5/8	3/8
100542	1/2-13	3/4	7/16
100544	9/16-12	7/8	31/64
100546	5/8-11	15/16	35/64
100548	3/4-10	1-1/8	41/64
100550	7/8-9	1-5/16	3/4
100552	1-8	1-1/2	55/64
100554	1-1/8-7	1-11/16	31/32
100556	1-1/4-7	1-7/8	1-1/16
100558	1-1/2-6	2-1/4	1-9/32

Fine Thread (SAE/UNF)

Item ID	Dia	WAF	Thk
100531	10-32	3/8	1/8
100535	1/4-28	7/16	7/32
100537	5/16-24	1/2	17/64
100539	3/8-24	9/16	21/64
100543	1/2-20	3/4	7/16

Nylon Insert Lock Nuts 18-8



- 18-8 Stainless Steel
- Rockwell:
B95-C32 (1/4 thru 5/8)
B80-C32 (3/4 thru 1-1/2)

Coarse Thread (USS/UNC)

Item ID	Dia	WAF	Thk
100614	6-32	5/16	11/64
100616	8-32	11/32	7/32
100618	10-24	3/8	15/64
100620	1/4-20	7/16	5/16
100622	5/16-18	1/2	11/32
100624	3/8-16	9/16	29/64
100626	7/16-14	5/8	29/64
100628	1/2-13	3/4	19/32
100630	5/8-11	15/16	3/4
100632	3/4-10	1-1/16	7/8
100636	1-8	1-7/16	1-3/64

Fine Thread (SAE/UNF)

Item ID	Dia	WAF	Thk
100619	10-32	3/8	15/64
100621	1/4-28	7/16	5/16
100623	5/16-24	1/2	11/32
100625	3/8-24	9/16	29/64
100629	1/2-20	3/4	19/32

Keps Nuts 18-8



- 18-8 Stainless Steel

Item ID	Dia	WAF
100572	4-40	1/4
100574	6-32	5/16
100576	8-32	11/32
100578	10-24	3/8
100579	10-32	3/8
100581	1/4-20	7/16

Cap Nuts 18-8



- 18-8 Stainless Steel
- Also known as acorn nuts

Item ID	Dia	WAF	Height
103941	10-32	3/8	9/32
103942	1/4-20	7/16	21/64
103944	5/16-18	9/16	3/8
103946	3/8-16	5/8	27/64
103950	5/8-11	15/16	1

Wing Nuts 18-8



- 18-8 Stainless Steel

Item ID	Dia	Wing Spread
100650	10-24	27/32
100651	10-32	27/32
100652	1/4-20	1-1/16
100654	5/16-18	1-7/32
100656	3/8-16	1-13/32

Stainless Steel

Flat Washers 18-8



- 18-8 Stainless steel

Item ID	Bolt Size	I.D.	O.D.	Thk
100672	#3	.109	.250	.022
100675	#4	.125	.312	.032
100676	#5	.141	.281	.032
100674	#6	.149	.375	.032
100677	#8	.174	.375	.032
100678	#10	.203	.4375	.032
100679	#12	.250	.500	.049
100680	1/4	.281	.625	.050
100682	5/16	.344	.750	.050
100684	3/8	.406	.875	.050
100686	7/16	.469	1.125	.062
100688	1/2	.563	1.25	.078
100690	5/8	.688	1.50	.078
100692	3/4	.812	1.75	.109
100694	7/8	.937	2.00	.109
100696	1	1.062	2.00	.125

Fender Washers 18-8



- 18-8 Stainless steel

Item ID	Bolt Size	I.D.	O.D.	Thk
100757	#8	11/64	3/4	.033/.047
100758	#10	7/32	3/4	.033/.047
100759	#10	7/32	1	.033/.047
100760	1/4	17/64	1	.043/.057
100761	1/4	17/64	1 1/4	.043/.057
100762	1/4	17/64	1 1/2	.043/.057
100764	5/16	11/32	1 1/4	.043/.057
100765	5/16	11/32	1 1/2	.043/.057
100768	3/8	25/64	1	.040/.060
100769	3/8	25/64	1 1/4	.125
100770	3/8	25/64	1 1/2	.040/.060
100774	1/2	17/32	1 1/2	.055/.069
100775	1/2	17/32	2	.055/.069

Flat Washers AN Style 18-8



- 18-8 Stainless steel

Item ID	Bolt Size	I.D.	O.D.	Thk
103960	1/4	.265	.500	.062
103961	5/16	.328	.562	.062
103962	3/8	.390	.625	.062
103963	7/16	.453	.750	.062
103964	1/2	.516	.875	.062
103966	5/8	.641	1.187	.062

Split Lock Washers 18-8



- 18-8 Stainless steel
- Hardness: Rockwell C35

Item ID	Bolt Size	Thk
100715	#3	.025
100716	#4	.025
100718	#6	.031
100719	#8	.040
100720	#10	.047
100721	#12	.056
100722	1/4	.062
100724	5/16	.078
100726	3/8	.094
100728	7/16	.109
100730	1/2	.125
100732	5/8	.156
100734	3/4	.188
100736	7/8	.219
100738	1	.250
100740	1-1/4	.312

Belleville Washers 18-8



- 18-8 Stainless steel
- Also referred to as disc spring washers

Item ID	Bolt Size	I.D.	O.D.	Thk
100705	3/8	.390	.750	.050
100707	1/2	.531	1.00	.062
100708	1/2	.515	1.188	.095

Stainless Steel

Cotter Pins 18-8



- Stainless steel

Length	1/16	3/32	1/8	5/32	3/16	1/4
5/16	101740					
1/2	101741					
3/4	101742	101750	101760	101771		
1	101743	101751	101761	101772	101784	
1-1/4	101744	101752	101762	101773	101785	
1-1/2	101745	101753	101763	101774	101786	101796
1-3/4		101754	101764		101787	
2	101747	101755	101765	101776	101788	101798
2-1/4					101789	
2-1/2		101757	101767	101778	101790	101800
3			101769	101780	101792	101802

Roll Pins 18-8



- Stainless steel

Length	3/32	1/8	3/16	7/32	1/4	5/16
1/2	102694		102766			
1	102701	102721	102774		102833	102860
1-1/2		102725			102837	102864
2		102729	102782		102841	102868
3				102817	102845	

Wedge Anchors 18-8



- Stainless steel

Item ID	Diameter	Length	Min Embedment
104006	3/8	2-1/4	1-1/2
104008	3/8	3	1-1/2
104010	3/8	3-3/4	1-1/2
104014	1/2	3-3/4	2
104015	1/2	4-1/4	2
104016	1/2	5-1/2	2
104021	5/8	5	2-1/2

Threaded Rod 18-8



- Stainless steel

Item ID	Diameter	Length
93970	10-24	6ft
93971	1/4-20	6ft
93972	5/16-18	6ft
93973	3/8-16	6ft
93974	7/16-14	6ft
93975	1/2-13	6ft
93977	5/8-11	6ft
93978	3/4-10	6ft
93979	7/8-9	6ft
93980	1-8	6ft

Stainless Steel

Sheet Metal Screws- Phillips Drive 18-8



Pan Flat Oval

- Stainless steel
- Phillips drive

Dia	Length	Pan Hd	Flat Hd	Oval Hd
#6	3/8	102999		
#6	1/2	103000		103074
#6	5/8	103010		
#6	3/4	103001	103144	103076
#6	1	103003	103146	103078
#6	1-1/4	103004		103079
#6	1-1/2	103005		103082
#8	3/8	103013		103082
#8	1/2	103014		103084
#8	5/8	103015		103085
#8	3/4	103016		103086
#8	7/8	103017		103088
#8	1	103018		103090
#8	1-1/4	103019		
#8	1-1/2	103020		103094
#8	2	103022		
#10	3/8	103026		
#10	1/2	103027		103100
#10	5/8	103028		
#10	3/4	103029		103102
#10	1	103031		103104
#10	1-1/4	103032		103105
#10	1-1/2	103033		103106
#10	2	103035		
#10	2-1/2			103110
#12	1/2	103043		103112
#12	3/4			103114
#12	1	103045		103116
#12	1-1/2	103047		103118
#14	1/2	103053		
#14	5/8	103054		
#14	3/4	103055		
#14	1	103057		
#14	1-1/4	103058		103132
#14	1-1/2	103059		103134
#14	2	103061		

Sheet Metal Screws- Slotted Drive 18-8



Pan Oval

- Stainless steel
- Slotted drive

Dia	Length	Pan Hd	Oval Hd
#6	1/2	103200	
#6	5/8	103201	
#6	3/4	103202	
#6	1	103203	
#6	1-1/4	103204	
#6	1-1/2	103205	
#8	1/2	103214	
#8	5/8	103215	
#8	3/4	103216	
#8	1	103218	
#8	1-1/4	103219	
#8	1-1/2	103220	
#10	1/2	103227	
#10	3/4	103229	
#10	1	103231	103304
#10	1-1/4	103232	103305
#10	1-1/2	103233	103306
#10	1-3/4	103234	
#10	2	103235	
#12	1	103245	
#12	1-1/4	103246	
#12	1-1/2	103247	
#12	2	103249	
#14	3/4	103256	
#14	1	103257	
#14	1-1/4	103258	
#14	1-1/2	103259	
#14	2	103261	

Phillips Flat Head Deck Screw 18-8



- Stainless steel
- Phillips drive

Item ID	Dia	Length
103330	#8	1-1/4
103332	#8	2
103333	#8	2-1/2

Phillips Pan Head Self Drilling Screws 410



- 410 Stainless steel
- Phillips drive

Item ID	Diameter	Length
103312	#8	1/2
103313	#8	3/4
103321	#10	3/4
103322	#10	1
103323	#10	1-1/4
103324	#10	1-1/2

Stainless Steel

Machine Screws- Phillips Drive 18-8



Pan Flat Oval

- Stainless steel
- Phillips drive

Machine Screws- Slotted Drive 18-8



Rnd Flat

- Stainless steel
- Slotted drive

Dia	Lgth	Pan Hd	Flat Hd	Oval Hd
4-40	1/4	103664	102902	
4-40	3/8	103666	102904	
4-40	1/2	103667	102906	
4-40	3/4	103668		
4-40	1	103669		
6-32	1/4	103671	102910	
6-32	3/8	103673	102912	
6-32	1/2	103675	102914	103780
6-32	3/4	103677	102916	
6-32	1	103679	102918	
6-32	1-1/2			103788
8-32	1/4	103684	102926	
8-32	3/8		102928	
8-32	1/2	103688	102930	
8-32	3/4	103690	102932	
8-32	1	103692	102934	
8-32	1-1/4	103693		103802
8-32	1-1/2	103694		
10-24	3/8	103702		
10-24	1/2	103703		
10-24	3/4	103704		
10-24	1	103705		
10-24	1-1/4	103706		
10-24	1-1/2	103707		
10-24	2	103709		
10-32	1/4	103701		
10-32	3/8		102952	
10-32	1/2	103718	102954	
10-32	3/4	103719	102956	
10-32	1	103720		
10-32	1-1/4	103721		
10-32	1-1/2	103722		103821
1/4-20	1/2	103740		
1/4-20	3/4	103741		103826
1/4-20	1	103742	102976	103827
1/4-20	1-1/4	103743		
1/4-20	1-1/2	103744		
1/4-20	2	103746		

Dia	Length	Rnd Hd	Flat Hd
2-56	1/8	103350	
2-56	5/8	103354	
4-40	1/4	103360	
4-40	1/2	103362	
4-40	3/4	103364	
4-40	1	103366	
6-32	3/8	103373	
6-32	1/2	103375	103570
6-32	3/4	103377	103572
6-32	1	103379	
6-32	1-1/4	103380	
6-32	1-1/2	103381	
6-32	2	103383	
8-32	1/4	103385	
8-32	3/8	103386	103584
8-32	1/2	103388	103586
8-32	3/4	103390	103588
8-32	7/8	103391	
8-32	1	103392	103590
8-32	1-1/4	103393	
8-32	1-1/2	103394	
8-32	2	103396	
10-24	3/8	103400	
10-24	1/2	103402	103602
10-24	3/4	103408	103604
10-24	1	103412	103606
10-24	1-1/4	103414	
10-24	1-1/2	103416	
10-32	3/8	103403	
10-32	1/2	103404	103603
10-32	3/4	103409	103605
10-32	1	103413	103607
10-32	1-1/2	103417	103611
10-32	2	103421	
1/4-20	1/2	103440	103614
1/4-20	3/4	103441	103616
1/4-20	1	103442	103618
1/4-20	1-1/4	103443	103620
1/4-20	1-1/2	103444	103622
5/16-18	3/4		103632
5/16-18	1		103634
5/16-18	1-1/2		103638
3/8-16	1		103648

Stainless Steel- Metric

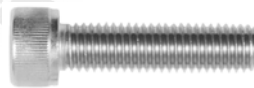
Hex Head Cap Screws 18-8/A2



- 18-8/A2 Stainless steel
- 100,000 PSI tensile strength
- * Indicates partial thread

Length	M5-0.8	M6-1.0	M8-1.25	M10-1.5	M12-1.75	Length
10	104126					10
12		104140				12
16	104130	104142	104162			16
20	104132	104144	104164	104176	104212	20
25	104134	104145	104166	104178		25
30	104136	104146	104168	104180		30
35	104138	104148	104170	104182		35
40	104139	104150	104172	104184	104220	40
75					104230*	75
Hex Size	8MM	10MM	13MM	17MM	19MM	

Socket Head Cap Screw 18-8/A2



- 18-8/A2 Stainless steel
- 70,000 PSI tensile strength
- * Indicates partial thread

Length	M4-0.7	M5-0.8	M6-1.0	M8-1.25	M10-1.5	M12-1.75	Length
10	104280						10
12	104282	104332	104372				12
16		104333	104374				16
20			104376	104432	104492		20
25	104288			104434	104494		25
30			104382	104436			30
35						104546	35
40			104386	104440*			40
60		104342*					60
70				104452*			70
100				104462*			100
Hex Key	3MM	4MM	5MM	6MM	8MM	10MM	

Button Socket Head Cap Screw 18-8/A2



- 18-8/A2 Stainless steel
- 70,000 PSI tensile strength

Item ID	Dia	Length	Hex Key
104262	M8-1.25	30	5MM

Stainless Steel- Metric

Hex Nuts 18-8/A2



- 18-8/A2 Stainless steel
Measurements in MM

Item ID	Dia	WAF	Thk
104065	M4-0.7	7	3.2
104066	M5-.08	8	4
104067	M6-1.0	10	5
104068	M8-1.25	13	6.5
104070	M10-1.5	17	8
104072	M12-1.75	19	10

Flat Washers 18-8/A2



- 18-8/A2 Stainless steel
Measurements in MM

Item ID	Size	I.D.	O.D.	Thk
104048	M5	5.3	10	1
104049	M6	6.4	12.5	1.6
104051	M8	8.40	17	1.6
104053	M10	10.5	21	2.0
104055	M12	13	24	2.5

Nylon Insert Lock Nuts 18-8/A2



- 18-8/A2 Stainless steel
Measurements in MM

Item ID	Dia	WAF	Thk
104080	M6-1.0	10	6
104082	M8-1.25	13	8
104084	M10-1.5	17	10
104088	M12-1.75	19	12

Split Lock Washers 18-8/A2



- 18-8/A2 Stainless steel
Measurements in MM

Item ID	Size	Thk
104030	M4	1
104031	M5	1.2
104032	M6	1.6
104034	M8	2
104036	M10	2.2
104037	M12	2.5

Wing Nuts 18-8/A2



- 18-8/A2 Stainless steel
Measurements in MM

Item ID	Dia
104100	M6-1.0

Brass/Silicon Bronze

Hex Head Cap Screws Brass



- Brass

Item ID	Dia	Length
105000	1/4-20	3/4
105002	1/4-20	1
105006	1/4-20	1-1/2
105020	5/16-18	3/4
105022	5/16-18	1
105026	5/16-18	1-1/2
105030	5/16-18	2
105040	3/8-16	3/4
105042	3/8-16	1
105046	3/8-16	1-1/2
105050	3/8-16	2
105070	1/2-13	1
105074	1/2-13	1-1/2
105078	1/2-13	2

Jam Nuts Brass



- Brass

Item ID	Dia
105132	1/4-20
105134	5/16-18
105136	3/8-16
105138	7/16-14
105140	1/2-13
105142	5/8-11

Slotted Round Head Machine Screws Brass



- Brass

Item ID	Diam	Length
105250	6-32	1/2
105252	6-32	3/4
105254	6-32	1
105256	6-32	1-1/2
105266	8-32	1/2
105268	8-32	3/4
105270	8-32	1
105272	8-32	1-1/2
105284	10-24	1/2
105286	10-24	3/4
105288	10-24	1
105290	10-24	1-1/2
105285	10-32	1/2
105287	10-32	3/4
105289	10-32	1
105300	1/4-20	1/2
105302	1/4-20	3/4
105304	1/4-20	1
105308	1/4-20	1-1/2

Hex Nuts Brass



- Brass

Coarse Thread (USS/UNC)

Item ID	Dia
105100	6-32
105102	8-32
105104	10-24
105106	1/4-20
105108	5/16-18
105110	3/8-16
105112	7/16-14
105114	1/2-13
105116	5/8-11
105118	3/4-10

- Brass

Fine Thread (SAE/UNF)

Item ID	Dia
105105	10-32
105111	3/8-24
105113	7/16-20
105115	1/2-20

Flat Washers Brass



- Brass

Item ID	Size
105170	#8
105171	#10
105172	1/4
105173	5/16
105174	3/8
105176	1/2
105177	5/8

Split Lock Washers Silicon Bronze



- Silicon Bronze

Item ID	Size
105185	1/4
105186	5/16
105187	3/8
105188	1/2

Slotted Flat Head Machine Screws Brass



- Brass

Item ID	Diam	Length
105354	6-32	1
105360	8-32	1/2
105364	8-32	1
105374	10-24	1/2
105376	10-24	3/4
105377	10-32	3/4
105390	1/4-20	3/4
105392	1/4-20	1
105394	1/4-20	1-1/4
105396	1/4-20	1-1/2

Chrome/Aluminum/Copper

Hex Head Cap Screws Chrome



- Chrome

Coarse Thread (USS/UNC)

Length	1/4-20	5/16-18	3/8-16	1/2-13
1/2	105580			
3/4	105582	105606		
1	105584	105608	105630	105652
1-1/4	105586	105610		105654
1-1/2	105588	105612	105634	105656
1-3/4				105658
2	105592	105616	105638	105660
2-1/4				105662
2-1/2	105596	105620	105642	105664
3				105668
3-1/2				105672

Fine Thread (SAE/UNF)

Length	1/4-28	5/16-24	3/8-24	1/2-20
1/2	105581			
3/4	105583	105607		
1	105585	105609	105631	105653
1-1/4	105587	105611		105655
1-1/2	105589	105613	105635	105657
1-3/4				105659
2	105593	105617	105639	105661
2-1/4				
2-1/2	105597	105621	105643	105665
3				105669
3-1/2				105673

Hex Nuts Chrome



- Chrome

Item ID	Dia	Thread
105700	1/4-20	Coarse
105701	1/4-28	Fine
105702	5/16-18	Coarse
105703	5/16-24	Fine
105704	3/8-16	Coarse
105705	3/8-24	Fine
105706	1/2-13	Coarse
105707	1/2-20	Fine

Flat Washers Chrome



- Chrome

Size	USS	SAE
1/4	105710	105711
5/16	105712	105713
3/8	105714	105715
1/2	105716	105717

Split Lock Washers Chrome



- Chrome

Item ID	Size
105726	1/4
105727	5/16
105728	3/8
105729	1/2

Hex Nuts Aluminum



- Aluminum

Item ID	Dia
105210	3/8-16
105214	1/2-13

Flat Washers Copper



- Copper

Item ID	Size
105500	1/4
105501	5/16
105502	3/8
105503	1/2