



SC MFG. GROUP

DBA HIDALGO METALS ENTERPRISE LTD.

ONTARIO, CANADA
OVER TWENTY YEARS IN PRODUCTION

REFERENCE TABLES · 2026

FASTENERS & HANGERS

Stainless steel fasteners and hangers, from bolts and screws through pipe supports, strut components, wire rope and chain. The reference charts we work from: self-drilling capacities, weight charts, thread charts and the bolt-up charts for flanges Class 150 to 2500.

Bolts, screws, socket and set screws

Threaded rod, studs, eye bolts and bent bolts

Wire rope and chain with accessories

Nuts, washers, machine and tapping screws

Pipe supports, clamps, straps and strut

18-8 (300 series) and 410 stainless;
316 on request

9

FAMILIES

18-8

STAINLESS STANDARD

1/2"-30"

PIPE SUPPORT SIZES

1,500+

TON PRESS

01 THE RANGE

STAINLESS STEEL

Nine families of fasteners and hangers, led by stainless steel to combat corrosion and prevent fastener failure. Alongside the catalogue range, supports, hangers, clips and fixings can be stamped and formed on our own tooling, supplied bagged with the fixing and labelled under your own SKU scheme.

About 18-8. 18-8 refers to the 300 series of stainless steel, composed of approximately 18% chromium and 8% nickel: fastener products in 302, 302HQ, 303, 304, 305, 384, XM7 and similar grades. Sizes shown throughout are approximate and may vary.

WHAT WE CARRY

NINE FAMILIES

FAMILY		COVERS
Bolts, screws & socket products		Hex and structural bolts, machine bolts, socket screws and set screws
Nuts & washers	Finished, jam, heavy and coupling nuts; nylon insert, slotted, wing, cap and square nuts; lock, flat, finishing and compression washers	
Machine & tapping screws		Machine screws and self-tapping screws across the standard head styles
Self-drilling screws		410 stainless, with neoprene or EPDM bonded sealing washers available
Threaded rods, studs & forged eye bolts		Threaded rod from 6-32 to 2-4.5, studs and forged eye bolts
Bent bolts, pins, nails & hinges		Bent bolts and eye bolts, pins, nails, and continuous hinges
Pipe supports		Clevis hangers and U-bolts, sized 1/2" to 30"
Pipe clamps, straps & strut components	Swivel bands, coach screws, rod couplings, riser clamps, straps, three-bolt pipe clamps, beam clamps, strut channel, strut pipe clamps, spring nuts and strut nuts	
Wire rope, chain & accessories	Wire rope with clips, thimbles, swage sleeves, swivel bolt snaps and turnbuckles; NACM standard chain in 316L, long link in 304L, lifting chain in 316L, sash chain in 302 and twist link in 304	

Can't find what you need? Ask. The catalogue range above is what is stocked, not the limit of what can be supplied.

02 SELECTION CHARTS

BY PRODUCT

SELF-DRILLING SCREWS — DRILLING CAPACITY

410 STAINLESS · SIZES #6 TO #14

NOMINAL SIZE	POINT STYLE	RECOMMENDED PANEL THICKNESS	RECOMMENDED DRILL SPEED (RPM)
#6	N°2	0.059" - 0.083"	2,500 Max.
#8	N°2	0.059" - 0.110"	2,500 Max.
#8	N°3	0.098" - 0.142"	2,500 Max.
#10	N°2	0.059" - 0.142"	2,500 Max.
#10	N°3	0.110" - 0.177"	2,500 Max.
#12	N°3	0.110" - 0.209"	1,800 Max.
#12	N°4	0.177" - 0.354"	1,800 Max.
#14	N°3	0.110" - 0.248"	1,800 Max.

Drilling capacity standard for 410 stainless steel self-drilling screws. Also available with neoprene or EPDM bonded sealing washers.

DIAMETER & THREAD PITCH CONVERSION

NC / NF / UN / METRIC · #1 THROUGH 3"

NATIONAL COARSE (NC)	NATIONAL FINE (NF)	UNIFIED (UN)	METRIC (APPROX.)	NATIONAL COARSE (NC)	NATIONAL FINE (NF)	UNIFIED (UN)	METRIC (APPROX.)
1-64	1-72	—	M2	5/8-11	5/8-18	—	M16
3-48	3-56	—	M2.5	3/4-10	3/4-16	—	M20
4-40	4-48	—	M3	7/8-9	7/8-14	—	M22
6-32	6-40	—	M3.5	1-8	1-12	—	M24
8-32	8-36	—	M4	1 1/8-7	1 1/8-12	1 1/8-8	M30
10-24	10-32	—	M5	1 1/4-7	1 1/4-12	1 1/4-8	M32
12-24	12-28	—	—	1 3/8-6	—	1 3/8-8	—
1/4-20	1/4-28	—	M6	1 1/2-6	—	1 1/2-8	M36
5/16-18	5/16-24	—	M8	1 3/4-5	—	1 3/4-8	—
3/8-16	3/8-24	—	M10	2-4.5	—	2-8	—
7/16-14	7/16-20	—	—	2 1/2-4	—	2 1/2-8	—
1/2-13	1/2-20	—	M12	3-4	—	3-8	—
9/16-12	9/16-18	—	M14				

Reference chart. Metric equivalents are approximate.

02 SELECTION CHARTS

BY PRODUCT

THREADED ROD — WEIGHT PER FOOT

19 DIAMETERS • 6-32 TO 2-4.5

DIAMETER — THREADS PER INCH	WEIGHT (LB/FT)	DIAMETER — THREADS PER INCH	WEIGHT (LB/FT)
6-32	0.036	3/4-10	1.25
7/16-14	0.4	1 3/4-5	6.35
1 1/4-7	3.54	1/4-20	0.12
8-32	0.054	7/8-9	1.7
1/2-13	0.54	2-4.5	9.12
1 3/8-6	4.23	5/16-18	0.2
10-24	0.069	1-8	2.23
5/8-11	0.83	3/8-16	0.29
1 1/2-6	5.12	1 1/8-7	2.81
10-32	0.074		

Approximate weights. Studs and forged eye bolts are also carried; dimensions on request.

CONTINUOUS HINGES

SIX PATTERNS • 72" LENGTHS

INCHES OPEN	GAUGE	LENGTH	PIN	KNUCKLE	LB EACH
1 1/16	37	72"	.100	.500	1.25
1 1/2	37	72"	.100	.500	1.5
1 1/2	60	72"	.125	.500	2.5
2	60	72"	.125	.500	3.58
2 1/2	60	72"	.125	.500	3.8
3	75	72"	.250	1	7

Neither leaf swaged; leaves lay flat in the same plane in the open position. Other sizes available on request. Bent bolts, eye bolts, pins and nails are also carried; dimensions on request.

02 PIPE SUPPORTS — CLEVIS HANGERS & U-BOLTS

PIPE SIZES 1/2" TO 30"

CLEVIS HANGERS

22 SIZES

PIPE SIZE	A	B	C	D	E	MAX. REC. LOAD (LB)	LB PER 100 PIECES
1/2	3/8	2 1/8	1 5/8	3/8	1/4	610	15
3/4	3/8	2 3/8	1 13/16	1/2	1/4	610	16
1	3/8	2 3/4	2	5/8	1/4	610	18
1 1/4	3/8	3 1/4	2 13/32	3/4	1/4	610	27
1 1/2	3/8	³ / _{15/16} 2	29/32	1 1/8	1/4	610	32
2	3/8	4 1/2	3 1/4	1 1/8	1/4	610	36
2 1/2	1/2	5 1/4	3 3/4	1 1/8	5/16	1130	58
3	1/2	6	4 3/16	1 1/4	5/16	1130	64
3 1/2	1/2	6 9/16	4 1/2	1 1/4	5/16	1130	110
4	5/8	7 3/4	5 7/16	¹ / _{13/16}	3/8	1400	113
5	5/8	9 3/4	6 13/16	2	1/2	1400	210
6	3/4	11 3/4	8 1/4	² / _{11/16}	1/2	1900	320
8	3/4	¹⁴ / _{3/16}	9 5/8	3 1/4	5/8	2000	490
10	7/8	16 1/2	10 7/8	3 1/4	3/4	3600	890
12	7/8	18 5/8	12 3 1/16	3/4		3800	1090
14	1	21 3/4	14 1/2	³ / _{15/16}	7/8	4200	1480
16	1	24	15 3/4	4	7/8	4800	2010
18	1	26 3/4	17 1/2	⁴ / _{11/16}	1	4800	2260
20	¹ / _{1/4}	30	¹⁹ / _{11/16}	5 3/8	1	4800	3970
24	¹ / _{1/4}	34	21 3/4	5 1/2	¹ / _{1/4}	4800	4930
26	¹ / _{1/4}	36	23 3/4	5 1/2	¹ / _{1/4}	4800	5700
30	¹ / _{1/4}	39	23 5/8	4	¹ / _{1/4}	6000	6200

U-BOLTS

19 SIZES

PIPE SIZE	ROD DIA. D	L	C	T	LB PER 100 PIECES
1/2	1/4	3 1/4	15/16	2 3/8	7.5
3/4	1/4	3 5/16	1 1/8	2 3/8	8
1	1/4	3 7/16	1 3/8	2 3/8	8.1
1 1/4	3/8	3 3/4	1 11/16	2 1/2	21.7
1 1/2	3/8	4	2	2 1/2	23.6
2	3/8	4 1/2	2 7/16	2 1/2	26.6
2 1/2	1/2	5 1/4	2 15/16	3	57.9
3	1/2	5 13/16	3 9/16	3	64.7
3 1/2	1/2	6 5/16	4 1/16	3	70.3
4	1/2	6 13/16	4 9/16	3	76.5
5	1/2	7 13/16	5 5/8	3	88.3
6	5/8	9 1/2	6 3/4	3 3/4	165.1
8	5/8	11 1/2	8 3/4	3 3/4	200.6
10	3/4	13 13/16	10 7/8	4	364.6
12	7/8	16 1/16	12 7/8	4 1/4	562
14	7/8	17 5/16	14 1/8	4 1/4	606.7
16	7/8	19 5/16	16 1/8	4 1/4	675.5
18	1	21 11/16	18 1/8	4 3/4	1040.6
20	1	23 11/16	20 1/8	4 3/4	1133.2

Dimensions in inches. Pipe clamps, straps and strut components — swivel bands, coach screws, rod couplings, riser clamps, short straps, three-bolt pipe clamps, beam clamps, strut channel, strut pipe clamps, spring nuts and strut nuts — are carried alongside; dimensions on request.

03 MACHINE SCREWS

POUNDS PER 1,000 PIECES • #0 TO 3/8" • LENGTHS 1/8" TO 3"

Approximate shipping weights for 18-8 stainless steel; add 1% for 316.

LENGTH	#0	#1	#2	#3	#4	#5	#6	#8	#10	#12	1/4"	5/16"	3/8"
1/8"	0.09	0.19	0.34	0.49	0.67	0.9	1.18	1.81	2.73	4	—	—	—
3/16"	0.12	0.24	0.42	0.59	0.79	1.06	1.37	2.09	3.09	4.49	6.55	—	—
1/4"	0.15	0.29	0.49	0.69	0.91	1.22	1.56	2.38	3.45	4.97	7.2	13.46	—
5/16"	0.18	0.34	0.57	0.79	1.03	1.37	1.74	2.66	3.81	5.46	7.85	14.5	23.84
3/8"	0.21	0.39	0.64	0.89	1.15	1.53	1.93	2.94	4.18	5.94	8.5	15.54	25.37
7/16"	0.24	0.44	0.72	0.99	1.27	1.69	2.11	3.32	4.54	6.43	9.15	16.58	26.9
1/2"	27	0.49	0.79	1.09	1.39	1.85	2.3	3.5	4.9	6.92	9.8	17.63	28.43
9/16"	0.3	0.54	0.87	1.19	1.51	2.01	2.49	3.78	5.26	7.4	10.45	18.67	29.95
5/8"	0.33	0.59	0.94	1.29	1.63	2.17	2.67	4.06	5.63	7.89	11.1	19.71	31.48
3/4"	0.36	0.64	1.09	1.49	1.87	2.49	3.05	4.63	6.35	8.86	12.4	21.79	34.54
7/8"	—	—	1.24	1.69	2.11	2.8	3.42	5.19	7.08	9.83	13.7	23.83	37.59
1"	—	—	1.39	1.89	2.35	3.12	3.79	5.75	7.8	10.8	15	25.95	40.65
1 1/8"	—	—	—	—	2.59	3.44	4.16	6.31	8.53	11.77	16.3	28.03	43.71
1 1/4"	—	—	—	—	2.83	3.76	4.54	6.88	9.25	12.74	17.6	30.11	46.76
1 1/2"	—	—	—	—	3.31	4.39	5.28	8	10.7	14.69	20.2	34.28	52.87
1 3/4"	—	—	—	—	3.79	5.03	6.03	9.13	12.15	16.63	22.8	38.44	58.99
2"	—	—	—	—	4.27	5.66	6.77	10.25	13.6	18.57	25.4	42.6	65.1
2 1/4"	—	—	—	—	—	—	7.52	11.38	15.05	20.51	28	46.76	71.21
2 1/2"	—	—	—	—	—	—	8.26	12.5	16.5	22.46	30.6	50.93	77.32
2 3/4"	—	—	—	—	—	—	9.01	13.63	17.95	24.4	33.2	55.09	83.44
3"	—	—	—	—	—	—	9.75	14.75	19.4	26.34	35.8	59.25	89.55

03 NUTS

POUNDS PER 100 PIECES

HEXAGON NUTS

FINISHED, JAM, HEAVY AND COUPLING

DIAMETER	FINISHED	FINISHED JAM	HEAVY	COUPLING
1/4"	0.72	0.53	1.2	1.9
5/16"	1.06	0.76	2.02	3.7
3/8"	1.53	1.03	3.2	3.5
7/16"	2.78	1.84	4.7	—
1/2"	3.6	2.59	6.7	5.58
9/16"	5.62	3.67	9	—
5/8"	6.92	4.82	11.9	21
3/4"	12.7	8.58	19.2	25.2
7/8"	19.9	13.1	29.2	—
1"	29.4	19.3	42.3	—
1 1/8"	41.9	27	58.5	—
1 1/4"	59.3	41.1	81.2	—
1 3/8"	78.8	54.3	105.3	—
1 1/2"	101.5	68.9	136.5	—

OTHER PATTERNS

NYLON INSERT, SLOTTED, WING, CAP AND SQUARE

DIAMETER	NYLON INSERT	SLOTTED HEXAGON	WING	CAP	SQUARE
N°10	0.51	0.34	0.75	0.67	0.4
N°12	—	—	—	0.8	0.69
1/4"	0.88	1.03	1.33	1.28	0.76
5/16"	1.07	1.7	2.25	2.69	—
3/8"	1.78	2.7	3.67	3.81	—
7/16"	2.9	3.95	9	5	—
1/2"	4.24	5.6	8.75	7	—
9/16"	7.1	7.5	—	—	—
5/8"	8.65	10	23.5	9.36	—
3/4"	12.3	16.4	21.5	13.46	—
7/8"	19.4	24.7	—	30.3	—
1"	25.8	35.6	—	43.59	—
1 1/8"	41	49.7	—	—	—
1 1/4"	58	69.2	—	—	—
1 3/8"	77	91.5	—	—	—
1 1/2"	100	120	—	—	—

03 WASHERS

POUNDS PER 100 PIECES • #0 TO 1"

NOMINAL SCREW OR BOLT SIZE	LOCK	COUNTERSUNK FINISHING	FLAT	FLANGE COMPRESSION
N° 0 (.060)	0.003	—	0.0095	—
N° 1 (.073)	0.005	—	0.0133	—
N° 2 (.086)	0.011	—	0.0181	—
N° 3 (.099)	0.017	—	0.033	—
N°4 (.112)	0.017	0.05	0.044	—
N°5 (.125)	0.028	—	0.057	—
N°6 (.138)	0.031	0.07	0.051	—
N°8 (.164)	0.054	0.11	0.077	—
N° 10 (.216)	0.079	0.14	0.122	—
N° 12 (.216)	0.119	0.18	0.173	—
1/4"	0.259	0.22	0.362	—
5/16"	0.444	—	0.618	—
3/8"	0.7	—	1.042	—
7/16"	1.021	—	1.854	—
1/2"	1.436	—	2.723	1.12
9/16"	1.977	—	3.185	—
5/8"	2.587	—	4.408	2.27
3/4"	4.293	—	6.81	3.73
7/8"	6.739	—	9.587	5.71
1"	9.662	—	13.943	8.91

Approximate shipping weights for 18-8 stainless steel; add 1% for 316.

04 UNIFIED THREAD SERIES

NOMINAL SIZE AND THREADS PER INCH • 0-80 TO 1 7/8-8

NOMINAL SIZE - THREADS PER INCH	SERIES	NOMINAL SIZE - THREADS PER INCH	SERIES	NOMINAL SIZE - THREADS PER INCH	SERIES
0 - 80	UNF	12 - 24	UNC	3/4 - 16	UNF
1 - 64	UNC	12 - 28	UNF	7/8 - 9	UNC
1 - 72	UNF	1/4 - 20	UNC	7/8 - 14	UNF
2 - 56	UNC	1/4 - 28	UNF	1 - 8	UNC
2 - 64	UNF	5/16 - 18	UNC	1 - 12	UNF
3 - 48	UNC	5/16 - 24	UNF	1 - 14	UNS
3 - 56	UNF	3/8 - 16	UNC	1 1/8 - 7	UNC
4 - 40	UNC	3/8 - 24	UNF	1 1/8 - 8	UN
4 - 48	UNF	7/16 - 14	UNC	1 1/4 - 7	UNC
5 - 40	UNC	7/16 - 20	UNF	1 1/4 - 8	UN
5 - 44	UNF	1/2 - 13	UNC	1 3/8 - 6	UNC
6 - 32	UNC	1/2 - 20	UNF	1 3/8 - 8	UN
6 - 40	UNF	9/16 - 12	UNC	1 1/2 - 6	UNC
8 - 32	UNC	9/16 - 18	UNF	1 1/2 - 8	UN
8 - 36	UNF	5/8 - 11	UNC	1 5/8 - 8	UN
10 - 24	UNC	5/8 - 18	UNF	1 3/4 - 5	UNC
10 - 32	UNF	3/4 - 10	UNC	1 3/4 - 8	UN

04 METRIC THREADS — PITCH AND TAPPING DRILL

M1 TO M76

SIZE	PITCH (MM)	TAPPING DRILL (MM)
M1	.25	.75
M1.1	.25	.85
M1.2	.25	.95
M1.4	.3	1.1
M1.6	.35	1.25
M1.8	.35	1.45
M2	.4	1.6
M2.2	.45	1.75
M2.5	.45	2.05
M3	.5	2.5
M3.5	.6	2.9
M4	.7	3.3
M4.5	.75	3.75
M5	.8	4.2

SIZE	PITCH (MM)	TAPPING DRILL (MM)
M6	1	5
M7	1	6
M8	1.25	6.75
M9	1.25	7.75
M10	1.5	8.5
M11	1.5	9.5
M12	1.75	10.2
M14	2	12
M16	2	14
M18	2.5	15.5
M20	2.5	17.5
M22	2.5	19.5
M24	3	21
M27	3	24

SIZE	PITCH (MM)	TAPPING DRILL (MM)
M30	3.5	26.5
M33	3.5	29.5
M36	4	32
M39	4	35
M42	4.5	37.5
M45	4.5	40.5
M48	5	43
M52	5	47
M56	5.5	50.5
M60	5.5	54.5
M64	6	58
M68	6	62
M72	6	66
M76	6	70

03 HEX HEAD CAP SCREWS – WEIGHTS

POUNDS PER 100 PIECES • 1/4" TO 1" • FINISHED, STAINLESS
AND BRASS

LENGTH	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"
3/8"	1.23	2.03	—	—	—	—	—	—	—
1/2"	1.36	2.24	3.36	—	—	—	—	—	—
5/8"	1.49	2.45	3.66	—	—	—	—	—	—
3/4"	1.62	2.66	3.97	5.6	8.44	—	—	—	—
7/8"	1.75	2.87	4.28	6.02	8.99	—	—	—	—
1"	1.92	3.08	4.59	6.44	9.55	15.71	23.94	—	—
1 1/4"	2.26	3.62	5.28	7.28	10.66	17.48	26.52	—	—
1 1/2"	2.61	4.16	6.06	8.34	11.92	19.24	29.11	41.46	59.21
1 3/4"	2.96	4.69	6.84	9.4	13.29	21.2	31.7	45.01	63.86
2"	3.3	5.23	7.61	10.45	14.67	23.35	34.54	48.56	68.51
2 1/4"	3.64	5.77	8.38	11.51	16.05	25.5	37.64	52.44	73.16
2 1/2"	3.99	6.3	9.16	12.56	17.42	27.65	40.74	56.66	78.24
2 3/4"	4.34	6.84	9.94	13.61	18.8	29.8	43.84	60.89	83.76
3"	4.68	7.38	10.71	14.67	20.18	31.95	46.94	65.11	89.28
3 1/4"	5.02	7.92	11.48	15.73	21.56	34.1	50.04	69.33	94.8
3 1/2"	5.37	8.46	12.26	16.78	22.94	36.25	53.14	73.56	100.32
3 3/4"	5.72	8.99	13.04	17.83	24.31	38.4	56.24	77.78	105.84
4"	6.06	9.53	13.81	18.89	25.69	40.55	59.34	82	111.35
4 1/4"	6.41	10.07	14.59	19.95	27.07	42.7	62.44	86.22	116.84
4 1/2"	6.75	10.6	15.36	21	28.44	44.85	65.54	90.44	122.33
4 3/4"	7.1	11.14	16.14	22.06	29.82	47	68.64	94.66	127.82
5"	7.44	11.68	16.91	23.11	31.2	49.15	71.74	98.89	133.42
5 1/4"	7.79	12.22	17.69	24.17	32.58	51.3	74.84	103.12	138.94
5 1/2"	8.13	12.76	18.46	25.22	33.96	53.45	77.94	107.34	144.46
5 3/4"	8.48	13.3	19.24	26.28	35.34	55.6	81.04	111.57	149.98
6"	8.82	13.84	20.01	27.33	36.71	57.75	84.14	115.78	155.49
6 1/2"	—	—	—	—	39.47	62.05	90.34	124.22	166.52
7"	—	—	—	—	42.23	66.35	96.54	132.66	177.55
7 1/2"	—	—	—	—	44.99	70.65	102.74	141.1	188.58
8"	—	—	—	—	47.75	74.95	108.94	149.54	199.61

Thread length: up to and including 6" long, twice the diameter plus 1/4"; over 6" long, twice the diameter plus 1/2". All hex caps may carry an additional 1/4" to 3/8" of thread, particularly up to 1 1/2" diameter and lengths over 4".

05 FLANGE BOLTING

NUMBER, DIAMETER AND LENGTH OF BOLTS FOR EACH NPS

How many bolts, what diameter and what length to bolt up a flange in each class: the companion charts to the flange dimension tables.

CLASS 150

20 SIZES

NPS	NO. OF BOLTS	DIA. OF BOLTS	STUD 0.0625" R.F.	STUD RING JOINT	HEX 0.0625" R.F.
1/2	4	1/2	2.5	—	2
3/4	4	1/2	2.5	—	2.25
1	4	1/2	2.75	3.25	2.25
1 1/4	4	1/2	2.75	3.25	2.5
1 1/2	4	1/2	3	3.5	2.5
2	4	5/8	3.25	3.75	2.75
2 1/2	4	5/8	3.5	4	3
3	4	5/8	3.75	4.25	3.25
3 1/2	8	5/8	3.75	4.25	3.25
4	8	5/8	3.75	4.25	3.25
5	8	3/4	4	4.5	3.25
6	8	3/4	4	4.5	3.5
8	8	3/4	4.25	4.75	3.75
10	12	7/8	4.75	5.25	4
12	12	7/8	4.75	5.25	4.25
14	12	1	5.25	4.75	4.5
16	16	1	5.5	6	4.75
18	16	1 1/8	6	6.5	5
20	20	1 1/8	6.25	6.75	5.5
24	20	1 1/4	7	7.5	6

CLASS 300

20 SIZES

NPS	NO. OF BOLTS	DIA. OF BOLTS	STUD 0.0625" R.F.	STUD RING JOINT	HEX 0.0625" R.F.
1/2	4	1/2	2.75	3	2.25
3/4	4	5/8	3	3.5	2.5
1	4	5/8	3.25	3.75	2.75
1 1/4	4	5/8	3.25	3.75	2.75
1 1/2	4	3/4	3.75	4.25	3
2	8	5/8	3.5	4.25	3
2 1/2	8	3/4	4	4.75	3.5
3	8	3/4	4.25	5	3.75
3 1/2	8	3/4	4.5	5.25	3.75
4	8	3/4	4.5	5.25	4
5	8	3/4	4.75	5.5	4.25
6	12	3/4	5	5.75	4.25
8	12	7/8	5.5	6.25	4.75
10	16	1	6.25	7	5.5
12	16	1 1/8	6.75	7.5	6
14	20	1 1/8	7	7.75	6.25
16	20	1 1/4	7.5	8.25	6.5
18	24	1 1/4	7.75	8.5	6.75
20	24	1 1/4	8.25	9	7.25
24	24	1 1/2	9.25	10.25	8

05 FLANGE BOLTING

NUMBER, DIAMETER AND LENGTH OF BOLTS FOR EACH NPS

CLASS 600

20 SIZES

NPS	NO. OF BOLTS	DIA. OF BOLTS	STUD 0.25" R.F.	STUD RING JOINT
1/2	4	1/2	3.25	3
3/4	4	5/8	3.5	3.5
1	4	5/8	3.75	3.75
1 1/4	4	5/8	4	4
1 1/2	4	3/4	4.25	4.25
2	8	5/8	4.25	4.5
2 1/2	8	3/4	4.75	5
3	8	3/4	5	5.25
3 1/2	8	7/8	5.5	5.75
4	8	7/8	5.75	6
5	8	1	6.5	6.75
6	12	1	6.75	7
8	12	1 1/8	7.75	8
10	16	1 1/4	8.5	8.75
12	20	1 1/4	8.75	9
14	20	1 3/8	9.25	9.5
16	20	1 1/2	10	10.25
18	20	1 5/8	10.75	11
20	24	1 5/8	11.5	11.75
24	24	1 7/8	13	13.25

CLASS 900

19 SIZES

NPS	NO. OF BOLTS	DIA. OF BOLTS	STUD 0.25" R.F.	STUD RING JOINT
1/2	4	3/4	4.25	4.25
3/4	4	3/4	4.5	4.5
1	4	7/8	5	5
1 1/4	4	7/8	5	5
1 1/2	4	1	5.5	5.5
2	8	7/8	5.75	5.75
2 1/2	8	1	6.25	6.25
3	8	7/8	5.75	6
4	8	1 1/8	6.75	7
5	8	1 1/4	7.5	7.75
6	12	1 1/8	7.75	8
8	12	1 3/8	8.75	9
10	16	1 3/8	9.25	9.5
12	20	1 3/8	10	10.25
14	20	1 1/2	10.75	11.25
16	20	1 5/8	11.25	11.75
18	20	1 7/8	12.75	13.5
20	20	2	13.5	14.25
24	20	2 1/2	17.25	18

05 FLANGE BOLTING

NUMBER, DIAMETER AND LENGTH OF BOLTS FOR EACH NPS

CLASS 1500

19 SIZES

NPS	NO. OF BOLTS	DIA. OF BOLTS	STUD 0.25" R.F.	STUD RING JOINT
1/2	4	3/4	4.25	4.25
3/4	4	3/4	4.5	4.5
1	4	7/8	5	5
1 1/4	4	7/8	5	5
1 1/2	4	1	5.5	5.5
2	8	7/8	5.75	5.75
2 1/2	8	1	6.25	6.25
3	8	1 1/8	7	7
4	8	1 1/4	7.75	7.75
5	8	1 1/2	9.75	9.75
6	12	1 3/8	10.25	10.5
8	12	1 5/8	11.5	12
10	12	1 7/8	13.25	13.75
12	16	2	14.75	15.5
14	16	2 1/4	16	17
16	16	2 1/2	17.5	18.5
18	16	2 3/4	19.5	20.5
20	16	3	21.5	22.5
24	16	3 1/2	24.5	25.75

CLASS 2500

14 SIZES

NPS	NO. OF BOLTS	DIA. OF BOLTS	STUD 0.25" R.F.	STUD RING JOINT
1/2	4	3/4	5.25	5.25
3/4	4	3/4	5.25	5.25
1	4	7/8	5.75	5.75
1 1/4	4	1	6.25	6.5
1 1/2	4	1 1/8	7	7.25
2	8	1	7.25	7.5
2 1/2	8	1 1/8	8	8.25
3	8	1 1/4	9	9.25
4	8	1 1/2	10.25	10.75
5	8	1 3/4	12	12.75
6	8	2	13.75	14.5
8	12	2	15.25	16
10	12	2 1/2	19.5	20.5
12	12	2 3/4	21.5	22.5

The length of a stud bolt is measured first thread to first thread. Bolt sizes are in inches. Sizes shown are approximate and may vary.