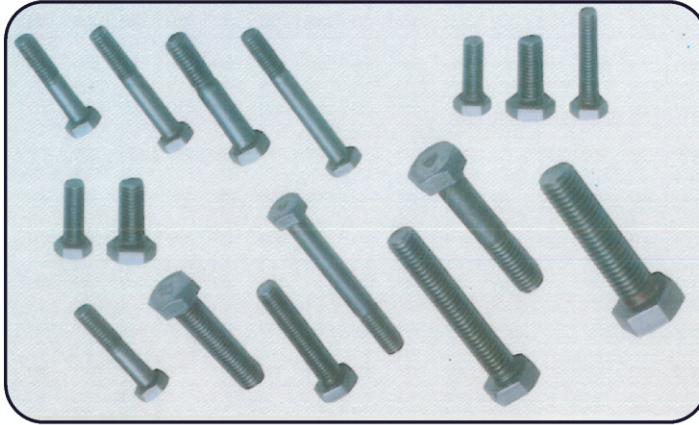


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**SURE FASTENERS, 1-Parshuram Industrial Area,
Street No. 2, Opp. Ajay Weigh Bridge,
Manda Dungar, Rajkot - 360003**

**COLD FORGED
HIGH TENSILE BOLTS & NUTS**



Hexagon Bolts / Screws & Nuts

SFPI

ISO 9001: 2015 COMPANY
SURE
FASTENERS

Packing Chart For Metric Series

QTY - Pcs.Per Box

Lgth/Dia	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	1"
1/2"	600	400	300	---	---	---	---	---
5/8"	400	400	---	---	---	---	---	---
3/4"	400	300	200	100	75	---	---	---
7/8"	400	300	150	100	75	---	---	---
1"	400	300	150	100	75	---	---	---
1-1/4"	300	200	150	100	75	---	---	---
1-1/2"	300	200	100	75	50	25	20	---
1-3/4"	300	150	100	75	50	25	20	---
2"	200	150	100	75	50	25	20	---
2-1/4"	200	150	75	75	50	25	20	---
2-1/2"	150	100	75	50	50	25	20	10
2-3/4"	150	100	75	50	25	25	20	10
3"	150	100	75	50	25	25	15	10
3-1/4"	---	75	50	50	25	25	15	8
3-1/2"	---	75	50	50	25	25	15	8
4"	---	75	50	50	25	20	15	8
4-1/2"	---	---	---	---	25	20	12	8
5"	---	---	---	---	25	20	12	6
5-1/2"	---	---	---	---	25	20	12	6
6"	---	---	---	---	25	20	12	6
6-1/2"	---	---	---	---	---	---	10	5
7"	---	---	---	---	---	---	10	5
7-1/2"	---	---	---	---	---	---	10	5
8"	---	---	---	---	---	---	10	5
NUTS	1000	600	350	250	150	100	50	

PHYSICAL PROPERTIES OF SFPI BOLTS & NUTS

BOLTS & NUTS	THREADS	COARSE & FINE	BSW / BSF	UNC / UNF
	Diameter	M6 to M24	1/4" to 3/4"	1/4" to 3/4"
	Lengh Range(Depending on dia.)	10mm to 200mm	1/2" to 8"	1/2" to 8"
	Diamension	IS : 1364	BS : 1083	BS : 1768
	Thread Fit	IS : 4218/1978	BS : 84/1956	BS : 1580/1962
	Material	SAE 1541 & Boron Steel	SAE 1541 & Boron Steel	SAE 1541 & Boron Steel
	Finish	Phosphated	Phosphated	Phosphated
BOLTS	Supply Condition	IS : 1367	BS : 1083	BS : 1768

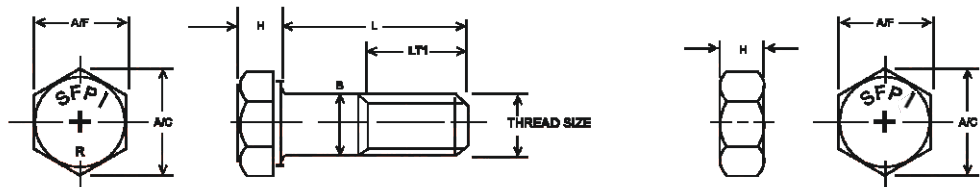
BOLTS	Quality - Grade	8.8	R	S
		≤ M16	≥ M16	
	Tensile Strength (mm)	81 kgf/mm ²	84 kgf/mm ²	45 tons / inch ²
	Hardness (min)	20 HRC	23 HRC	94 HRB

NUTS	Quality - Grade	8	A	P
		≤ M16	≥ M16	
	Proof Load Stress (Min)	84 kgf/mm ²	93 kgf/mm ²	28 tons / inch ²
				35 tons / inch ²



Hexagon Bolts / Screws & Nuts

Inch BSW / BSF Series - Dimensions



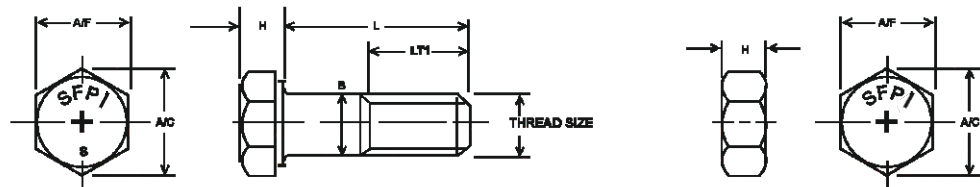
Torque Size	T.P.I.		A/F Max	A/C Min	B Max	H For Bolts Nom	H For Nuts Nom	LT1	Length Range	Torque for Bolts	
	BSW	BSF								BSW	BSF
1/4	20	26	0.445	0.510	0.250	0.169	0.200	1/2	1/2-3	1.10	1.24
5/16	18	22	0.525	0.610	0.312	0.212	0.250	5/8	1/2-4	2.35	2.48
3/8	16	20	0.600	0.690	0.375	0.256	0.312	3/4	1/2-4	4.14	4.42
7/16	14	18	0.710	0.820	0.437	0.295	0.375	7/8	3/4-4	6.49	7.04
1/2	12	16	0.820	0.950	0.500	0.338	0.437	1	1-6	9.66	10.63
5/8	11	14	1.010	1.170	0.625	0.413	0.562	1.1/4	1-8	20.01	21.39
3/4	10	12	1.200	1.390	0.750	0.498	0.687	1.1/2	1.1/2-8	35.19	36.98

- ★ All above dimension are in inch.
- ★ LT1-> Thread Length for Half Threaded Bolts.
- ★ Tightening torque value are in kg-m for bolts only & are calculated, recommended & approximate figures, and may vary due to coating, lubricants, wrench Calibration and/or effect of matting surface.



Hexagon Bolts / Screws & Nuts

Inch UNC / UNF Series - Dimensions



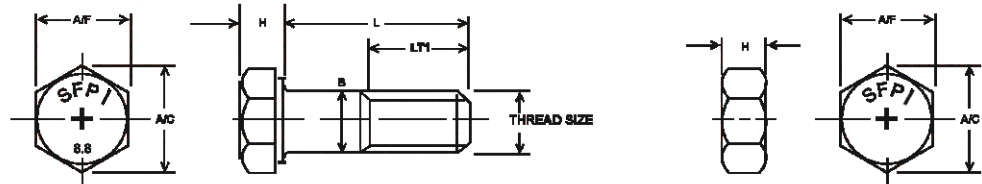
Torque Size	T.P.I.		A/F Max	A/C Min	B Max	H For Bolts Nom	H For Nuts Nom	LT1	Length Range	Torque for Bolts	
	UNC	UNF								UNC	UNF
1/4	20	28	0.437	0.505	0.250	0.755	0.219	3/4	1/2-3	1.24	1.38
5/16	18	24	0.500	0.577	0.312	0.204	0.266	7/8	1/2-4	2.62	2.76
3/8	16	24	0.561	0.650	0.375	0.235	0.328	1	1/2-4	4.55	4.97
7/16	14	20	0.625	0.722	0.437	0.285	0.375	1.1/8	3/4-4	7.31	7.87
1/2	12	20	0.750	0.866	0.500	0.315	0.437	1.1/4	1-6	10.90	11.87
5/8	11	18	0.937	1.083	0.625	0.395	0.547	1.1/2	1-8	22.22	23.74
3/4	10	16	1.125	1.300	0.750	0.470	0.641	1.3/4	1.1/2-8	40.57	41.40

- ★ All above dimension are in inch.
- ★ LT1-> Thread Length for Half Threaded Bolts.
- ★ Tightening torque value are in kg-m for bolts only & are calculated, recommended & approximate figures, and may vary due to coating, lubricants, wrench Calibration and/or effect of matting surface.





QTY - Pcs.Per Box								
Lgth/Dia	M6	M8	M10	M12	M14	M16	M20	M24
10mm	600	400	—	—	—	—	—	—
12mm	600	400	—	—	—	—	—	—
16mm	600	400	200	—	—	—	—	—
20mm	600	300	150	100	—	—	—	—
25mm	400	300	150	100	—	—	—	—
30mm	400	200	150	100	50	50	—	—
35mm	300	200	100	100	50	50	—	—
40mm	300	200	100	75	50	25	—	—
45mm	300	150	100	75	50	25	—	—
50mm	300	150	75	50	50	25	20	12
55mm	200	100	75	50	50	25	20	12
60mm	200	100	75	50	25	25	20	12
65mm	200	100	75	50	25	25	15	12
70mm	150	100	75	50	25	25	15	12
75mm	150	100	50	50	25	25	15	10
80mm	—	75	50	25	25	25	15	10
90mm	—	75	50	25	25	25	15	10
100mm	—	75	50	25	25	25	12	8
110mm	—	—	—	25	25	20	12	8
120mm	—	—	—	25	25	20	12	8
130mm	—	—	—	25	25	20	12	8
140mm	—	—	—	25	25	20	10	8
150mm	—	—	—	25	25	20	10	6
160mm	—	—	—	—	—	—	10	6
170mm	—	—	—	—	—	—	10	6
180mm	—	—	—	—	—	—	8	6
190mm	—	—	—	—	—	—	8	6
200mm	—	—	—	—	—	—	8	5
NUTS	1200	600	300	200	150	100	20	



Thread Size	Pitch	A/F Max		A/C Min		B Max	B for Bolts Nom		H for Nuts Nom		L1	Length Range	Torque for Bolts
M6	1.1	10.0		11.00		6.0	4.0		5.00	5.20	18	10-75	1.05
M8	1.25	13.0		14.38		8.0	5.00	5.30	6.50	6.80	22	10-100	2.54
M10	1.5	17.0	16.0	18.90	17.80	10.0	6.40		8.00	8.40	26	16-100	5.11
M12	1.75	19.0	18.0	21.10	20.03	12.0	8.00	7.50	10.00	10.80	30	20-150	8.90
M14	2.0	22.0	21.0	24.49	23.35	14.0	9.00	8.80	11.00	12.80	34	30-150	14.17
M16	2.0	24.0		26.75		16.0	10.00		13.00	14.80	38	30-180	21.82
M20	2.5	30.0		32.95		20.0	13.00	12.50	16.00	18.00	46	40-150	43.91

- ★ All above dimension are in millimeter.
- ★ LT-> Thread Lenght for Half Threaded Bolts.
- ★ Dimensions In accordance with revised standards.
- ★ Tightening torque value are in kg-m for bolts only & are caculated, recomendado & approximate figures, and may vary due to coating, lubricants, wrench Calibration and/or effect of matting surface.

