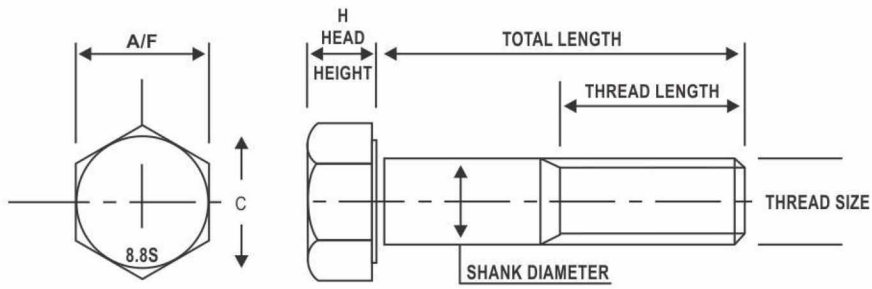




# H.S.F.G BOLTS CONFIRMING TO IS : 3757



DIA & PITCH	M16 x 2	M20 x 2.5	M12 x 2.5	M24 x 3	M27 x 3	M30 x 3.5	M36 x 4	MECH PROPERTY	THREAD	IDENTIFICATION
Shank Dia	15.30 - 16.70	19.16 - 20.84	21.16 - 22.84	23.16 - 24.84	26.16 - 27.84	29.16 - 30.84	35.00 - 37.00	8.8 or 10.9 as per ISO 898	ISO Metric 6G Class as per ISO 965	 8.8S or  10.8S
A/F	26.16 - 27.00	33.00 - 34.00	35.00 - 36.00	40.00 - 41.00	45.00 - 46.00	49.00 - 50.00	58.80 - 60.00			
Head Height	9.25 - 10.75	11.60 - 13.40	13.10 - 14.90	14.10 - 15.90	16.10 - 17.90	17.65 - 19.75	21.45 - 23.55			
Thread L < 100	31	36	38	41	44	49	56	IS 1367 (3)	IS 4218	
Length > 100	38	43	45	48	51	56	63			
Proof Load in N	8.8S	91060	147000	181800	211800	275400	336600	490200		
	10.9S	130310	203350	251490	292990	380970	465630	678110		

## GRIP LENGTH & WEIGHTS OF BOLTS (KGS / 1000 PCS.)

DIA	M16		M20		M22		M24		M27		M30		M36	
	(GL)	Wt.	(GL)	Wt.	(GL)	Wt.	(GL)	Wt.	(GL)	Wt.	(GL)	Wt.	(GL)	Wt.
40	10 to 14	102.8	-	-	-	-	-	-	-	-	-	-	-	-
45	15 to 19	110.7	11 to 15	180.3	-	-	-	-	-	-	-	-	-	-
50	20 to 24	118.6	16 to 20	192.6	12 to 16	252.0	-	-	-	-	-	-	-	-
55	25 to 29	126.5	21 to 25	205.0	17 to 21	266.9	15 to 19	337.4	-	-	-	-	-	-
60	30 to 34	134.4	26 to 30	217.3	22 to 26	281.8	20 to 24	355.2	17 to 21	480.9	-	-	-	-
65	35 to 39	142.3	31 to 35	229.6	27 to 31	296.7	25 to 29	372.9	22 to 26	503.4	-	-	-	-
70	40 to 44	150.2	36 to 40	241.9	32 to 36	311.6	30 to 34	390.7	27 to 31	525.8	24 to 28	672.5	-	-
75	45 to 49	158.1	41 to 45	254.3	37 to 41	326.6	35 to 39	408.4	32 to 36	548.3	29 to 33	700.3	23 to 27	1089.1
80	50 to 54	166.0	46 to 50	266.6	42 to 46	341.5	40 to 44	426.2	37 to 41	570.8	34 to 38	728.0	28 to 32	1129.0
85	55 to 59	173.9	51 to 55	278.9	47 to 51	356.4	45 to 39	443.9	42 to 46	593.2	39 to 43	755.7	33 to 37	1169.0
90	60 to 64	181.7	56 to 60	291.3	52 to 56	371.3	50 to 54	461.7	47 to 51	615.7	44 to 48	783.5	38 to 42	1209.0
95	65 to 69	189.6	61 to 65	303.6	56 to 61	386.2	55 to 59	479.4	52 to 56	638.2	49 to 53	811.2	43 to 47	1248.9
100	70 to 74	197.5	66 to 70	315.9	62 to 66	401.2	60 to 64	497.2	57 to 61	660.7	54 to 58	839.0	48 to 52	1288.9
110	75 to 84	211.4	71 to 80	337.7	67 to 76	427.8	65 to 74	528.5	62 to 71	685.6	59 to 68	888.4	53 to 62	1362.0
120	85 to 94	227.2	81 to 90	362.4	77 to 86	457.7	75 to 84	564.1	72 to 81	730.6	69 to 78	943.9	63 to 72	1441.9
130	95 to 104	243.0	91 to 100	387.0	87 to 96	487.5	85 to 94	599.6	82 to 91	775.5	79 to 88	999.4	73 to 82	1521.8
140	105 to 114	258.8	101 to 110	411.7	97 to 106	517.3	95 to 104	635.1	92 to 101	820.5	89 to 98	1054.9	83 to 92	1601.7
150	115 to 124	274.6	111 to 120	436.3	107 to 116	547.2	105 to 114	670.6	102 to 111	865.4	99 to 108	1110.4	93 to 102	1681.6
160	125 to 134	290.3	121 to 130	461.0	117 to 126	577.0	115 to 124	706.1	112 to 121	910.4	109 to 118	1165.8	103 to 112	1761.5
170	135 to 144	306.1	131 to 140	485.7	127 to 136	606.9	125 to 134	741.6	122 to 131	955.3	119 to 128	1221.3	113 to 122	1841.4
180	145 to 154	321.9	141 to 150	510.3	137 to 146	636.7	135 to 144	777.1	132 to 141	1000.2	129 to 138	1276.8	123 to 132	1921.3
190	155 to 164	337.7	151 to 160	535.0	147 to 156	666.5	145 to 154	812.6	142 to 151	1045.2	139 to 148	1332.3	133 to 142	2001.2
200	165 to 174	353.5	161 to 170	559.6	157 to 166	694.4	155 to 164	848.2	152 to 161	1090.2	149 to 158	1387.8	143 to 152	2081.1
210	-	-	-	-	-	-	-	-	162 to 171	1135.2	159 to 168	1443.3	153 to 162	2161.0
220	-	-	-	-	-	-	-	-	172 to 181	1180.1	169 to 178	1498.8	163 to 172	2240.9
230	-	-	-	-	-	-	-	-	182 to 191	1225.0	179 to 188	1554.3	173 to 182	2320.8
240	-	-	-	-	-	-	-	-	191 to 201	1270.0	189 to 198	1609.8	183 to 192	2400.7
250	-	-	-	-	-	-	-	-	202 to 211	1314.0	199 to 208	1665.3	193 to 202	2480.6
260	-	-	-	-	-	-	-	-	212 to 221	1359.9	209 to 218	1720.7	203 to 212	2560.5
270	-	-	-	-	-	-	-	-	222 to 231	1404.9	219 to 228	1776.2	213 to 222	2640.4
280	-	-	-	-	-	-	-	-	232 to 241	1449.8	229 to 238	1831.7	223 to 232	2720.3
290	-	-	-	-	-	-	-	-	242 to 251	1493.9	239 to 248	1887.2	233 to 242	2800.2
300	-	-	-	-	-	-	-	-	252 to 261	1538.9	249 to 258	1942.7	243 to 252	2880.1