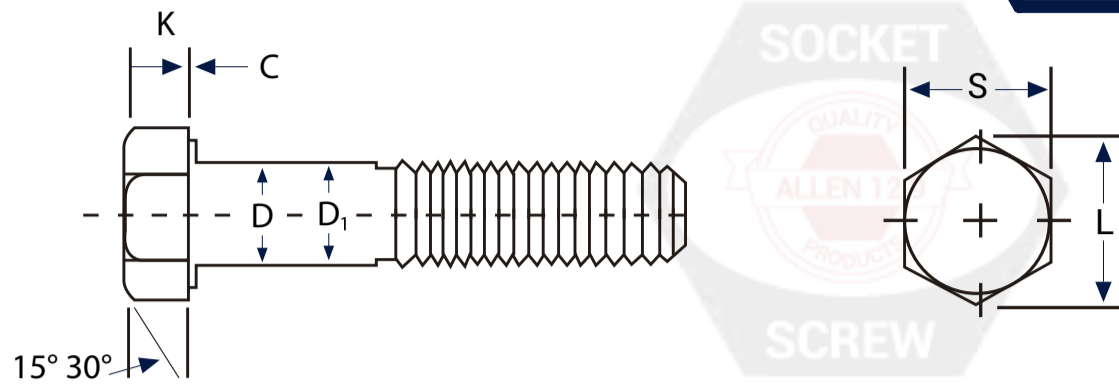


BULÓN HEXAGONAL CALIDAD 8.8 | 10.9 MÉTRICO

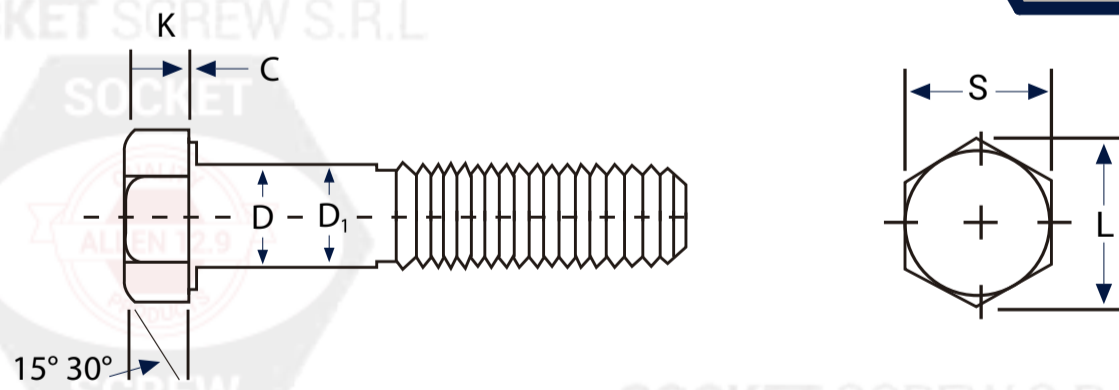


D Nom Screw Dia and Thread Pitch	D Body Diameter		S Width Across Flats		E Width Across Corners		K Head Height		C Washer Face Thickness		D Washer Face Dia	Runout of Bearing Surface FIM
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.	Max.
M5 X 0.8	5.00	4.82	8.00	7.78	9.24	8.79	3.65	3.35	0.5	0.2	6.9	0.22
M6 X 1	6.00	5.82	10.00	9.78	11.55	11.05	4.15	3.85	0.5	0.2	8.9	0.25
M8 X 1.25	8.00	7.78	13.00	12.73	15.01	14.38	5.50	5.10	0.6	0.3	11.6	0.28
M10 X 1.5	10.00	9.78	16.00	15.73	18.48	17.77	6.63	6.17	0.6	0.3	14.6	0.32
M12 X 1.75	12.00	11.73	18.00	17.73	20.78	20.03	7.76	7.24	0.6	0.3	16.6	0.35
M14 X 2	14.00	13.73	21.00	20.67	24.25	23.35	9.09	8.51	0.6	0.3	19.6	0.39
M16 X 2	16.00	15.73	24.00	23.67	27.71	26.75	10.32	9.58	0.8	0.4	22.5	0.43
M20 X 2.5	20.00	19.67	30.00	29.16	34.64	32.95	12.88	12.12	0.8	0.4	27.7	0.53
M24 X 3	24.00	23.67	35.00	35.00	41.57	39.55	15.44	14.56	0.8	0.4	33.2	0.53
M30 X 3.5	30.00	29.67	48.00	45.00	53.12	50.85	19.48	17.92	0.8	0.4	42.7	0.78
M36 X 4	36.00	35.61	55.00	53.80	63.51	60.79	23.38	21.62	0.8	0.4	51.1	0.93
M42 X 4.5	42.00	41.38	65.00	62.90	75.06	71.71	26.97	25.03	10	0.5	59.8	10.9
M48 X 5	48.00	47.38	75.00	72.60	86.60	82.76	31.07	28.93	10	0.5	69.0	1.25
M56 X 5.5	56.00	55.25	85.00	82.20	96.15	93.71	36.20	33.80	10	0.5	78.1	1.47
M64 X 6	64.00	63.25	95.00	91.80	109.70	104.65	41.32	38.68	10	0.5	87.2	1.69
M72 X 6	72.00	71.26	105.00	101.40	121.24	115.60	46.45	43.55	12	0.6	96.3	1.91
M80 X 6	80.00	79.26	115.00	111.00	132.72	126.54	51.58	48.42	12	0.6	106.4	2.13
M90 X 6	90.00	89.13	130.00	125.00	150.11	143.07	57.74	54.26	12	0.6	119.2	2.41
M100 X 6	100.00	99.13	145.00	140.00	167.43	159.50	63.90	60.10	12	0.6	133.0	2.69

MECHANICAL REQUIREMENTS AND IDENTIFICATION MARKING FOR BOLTS, SCREW PER SAE J429 & J1199

Grade Designation	Products	Nominal Size Dia In	Full Size Bolts Screws and Studs		Machine Tool Specimens of Bolts, Screws and Studs					Surface Hardness		Core Hardness		Grade Identification Marking
			Proof Load (Stress)	Tonalle Strength	Ylald Strength (Stress)	Tenalle Strength	Elon gation	Reduc tion of area	Rockwell 30 N	Rockwell				
										Min.	Max%	Min%	Max%	
8	Bots Screws Studs	1/4 thru 1- 1/2	120000 pti	159000pti	130000 pti	150000 pti	12	35	58.6	C33	C39	8		
10.9	Bots Screws Studs	M6 thru M36	830 MP	1040 MP	910 MP	1040 MP	9	35	59	C33	C39	8		

BULÓN HEXAGONAL CALIDAD 8.8 | 10.9 PULGADA



Nominal Size or Basic Product Dta.	E Body Dta.		F Width Across Flats			G Width Across Corners		H Height			LT Thread Length For Screw Lengths Shorter Over sin.		Y Transition Thread Length
	Max.	Min.	Basic	Min.	Max.	Min.	Max.	Basic	Max.	Min.	Basic	Basic	Max.
1/4	0.2500	0.2500	0.2450	7/16	0.429	0.506	0.488	5/32	0.183	0.150	0.750	1.000	0.250
5/16	0.3125	0.3125	0.3058	1/2	0.189	0.577	0.577	29/16	0.211	0.185	0.875	1.125	0.278
3/8	0.3750	0.3750	0.3590	9/15	0.581	0.650	0.628	15/64	0.243	0.228	1.000	1.250	0.312
7/16	0.4375	0.4375	0.4335	5/8	0.612	0.722	0.698	9/22	0.291	0.272	1.125	1.375	0.357
1/2	0.5000	0.5000	0.1930	3/4	0.735	0.866	0.840	5/16	0.323	0.302	1.250	1.500	0.385
9/16	0.5625	0.5625	0.5545	13/16	0.798	0.934	0.910	23/54	0.371	0.365	1.375	1.625	0.417
5/8	0.6250	0.6250	0.5170	15/16	0.922	1.083	1.051	25/54	0.403	0.378	1.500	1.750	0.455
3/4	0.7500	0.7500	0.7410	1-1/3	1.100	1.299	1.254	15/32	0.483	0.455	1.750	2.000	0.500
7/8	0.8750	0.8750	0.8500	1-5/15	1.225	1.518	1.485	36/64	0.563	0.531	2.000	2.250	0.585
1	1.0000	1.0000	0.9900	1-1/2	1.560	1.722	1.675	38/64	0.627	0.591	2.250	2.500	0.625
1-1/8	1.1250	1.1250	1.1140	1-11/10	1.661	1.919	1.859	11/16	0.718	0.658	2.500	2.750	0.714
1-1/4	1.2500	1.2500	1.2390	1-7/8	1.812	2.166	2.088	25/32	0.813	0.749	2.750	3.000	0.833
1-3/8	1.3750	1.3750	1.2630	2-1/16	1.994	2.392	2.278	27/32	0.876	0.810	3.000	3.258	0.833
1-1/2	1.5000	1.5000	1.4380	2-1/4	2.175	2.596	2.480	1-5/16	0.974	0.902	3.250	3.500	1.000
1-3/4	1.7500	1.7500	1.7380	2-5/8	2.538	3.031	2.880	1-3/32	1.134	1.054	3.750	4.000	1.111
2	2.0000	2.0000	1.9980	3	2.900	3.464	3.366	1-7/32	1.263	1.175	4.250	4.500	