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REVISION
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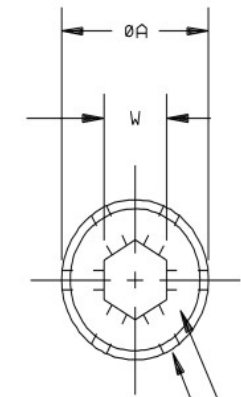
10/30/02

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3/07/03

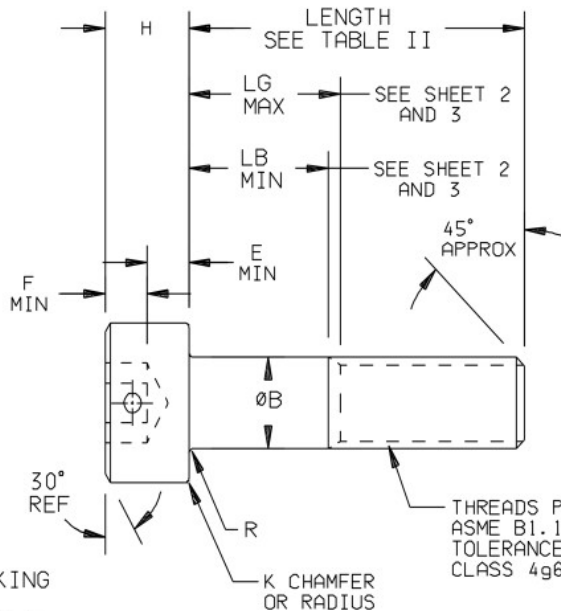
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10/13/04



CROSSDRILL
HOLES WHEN
SPECIFIED
BY PART NO.

MARKING
SEE
NOTE 5



THREADS PER
ASME B1.13M
TOLERANCE
CLASS 4g6g

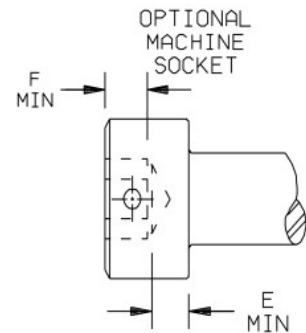


TABLE I

BASIC THREAD DIAMETER	ØA	ØB	E MIN	F MIN	H	K MAX	JUNCTURE R MIN	W	DOUBLE SHEAR STRENGTH kN (REF ONLY)	COARSE THREAD PITCH	TENSILE STRENGTH kN MINIMUM	FINE THREAD PITCH	TENSILE STRENGTH kN MINIMUM
M1.6	3.00 2.87	1.60 1.46	0.54	0.8	1.60 1.52	.08	.10	1.54 1.52	3	0.35	1.4	-	-
M2	3.80 3.65	2.00 1.86	0.68	1.00	2.00 1.91	.08	.10	1.54 1.52	4	0.40	2.3	-	-
M2.5	4.50 4.33	2.50 2.36	0.85	1.25	2.50 2.40	.08	.10	2.04 2.02	6	0.45	3.7	-	-
M3	5.50 5.32	3.00 2.86	1.02	1.50	3.00 2.89	.13	.10	2.56 2.52	9	0.5	5.5	-	-
M4	7.00 6.80	4.00 3.82	1.52	2.00	4.00 3.88	.13	.20	3.07 3.02	16	0.7	9.7	-	-
M5	8.50 8.27	5.00 4.82	1.90	2.50	5.00 4.86	.13	.20	4.08 4.02	26	0.8	16	-	-
M6	10.00 9.74	6.00 5.82	2.28	3.00	6.00 5.85	.20	.25	5.08 5.02	37	1	22	-	-
M8	13.00 12.70	8.00 7.78	3.20	4.00	8.00 7.83	.20	.40	6.09 6.02	65	1.25	40	1	43
M10	16.00 15.67	10.00 9.78	4.00	5.00	10.00 9.81	.20	.40	8.11 8.02	102	1.5	64	1	71
M12	18.00 17.63	12.00 11.73	4.80	6.00	12.00 11.79	.25	.60	10.12 10.02	147	1.75	93	1.25	101
M14	21.00 20.60	14.00 13.73	5.60	7.00	14.00 13.77	.25	.60	12.14 12.03	200	2	127	1.5	137
M16	24.00 23.58	16.00 15.73	6.40	8.00	16.00 15.76	.25	.60	14.15 14.03	261	2	172	1.5	184
M20	30.00 29.53	20.00 19.67	8.00	10.00	20.00 19.73	.40	.80	17.21 17.05	408	2.5	269	1.5	299
M24	36.00 35.48	24.00 23.67	9.60	12.00	24.00 23.70	.40	.80	19.24 19.06	588	3	388	2	423
M30	45.00 44.42	30.00 29.67	12.00	15.00	30.00 29.67	.40	1.00	22.31 22.06	919	3.5	617	2	683
M36	54.00 53.37	36.00 35.61	14.40	18.00	36.00 35.64	.40	1.00	27.31 27.06	1323	4	898	2	1006

SIZES M1.6 TO M36 = 1100 MPa UTS AND 650 MPa USS
ULTIMATE TENSILE STRENGTH CALCULATED USING TENSILE STRESS AREA
PER APPENDIX B OF ASME B1.13M AND STRESS LEVEL LISTED ABOVE.
DOUBLE SHEAR STRENGTH CALCULATED USING AREA AT NOMINAL BODY DIAMETER
AND STRESS LEVEL LISTED ABOVE

TABLE II

LENGTH TOLERANCE TABLE M1.6 THRU M36	
NOMINAL SCREW LENGTH, mm	TOLERANCE ON LENGTH, mm
UP TO 50, INCLUDED	±0.25
OVER 50 TO 80, INCLUDED	±0.5
OVER 80 TO 120, INCLUDED	±0.7
OVER 120 TO 250, INCLUDED	±0.8
OVER 250	±1.0

TOLERANCES ±0.25 AND ±2° SURFACE ROUGHNESS 3.2 UNLESS OTHERWISE NOTED	FSCM NO. 56878 CUSTODIAN: JENKINTOWN, PA.
DRAFTED IN ACCORDANCE WITH ANSI Y14.5M-1982	DATE: 1/11/01
DRAWN BY: KATHY SCHWARTZ	DATE: 10/14/04
APPROVED: S FOSTER	
APPROVED: F CICCAREONE	

TITLE

SOCKET HEAD CAP SCREW, METRIC
1100 MPa UTS, A286

STANDARDS AND SPECIFICATIONS
ASTM F837M
EXCEPT AS NOTED

PART NUMBER:

95828

SHEET 1 OF 3