



DRAWING NUMBER
SD. 500. 79891

ISSUE DATE
1/05/99

REVISION
①

3/12/03

FOR LENGTHS SHORTER THAN LISTED. (LENGTHS ABOVE HEAVY LINE)
SCREWS WILL BE THREADED AS CLOSE TO THE HEAD AS PRACTICABLE (APPROX. WITHIN 2 THREAD PITCHES)

BODY AND GRIP LENGTHS FOR SOCKET HEAD CAP SCREWS														
SIZE	#2 (-92)		#3 (-93)		#4 (-94)		#5 (-95)		#6 (-96)		#8 (-98)		#10 (-3)	
	L _G	L _B	L _G	L _B	L _G	L _B	L _G	L _B	L _G	L _B	L _G	L _B	L _G	L _B
NOM. LENGTH														
3/4														
7/8	0.250	0.160	0.250	0.150										
1	0.250	0.160	0.250	0.150	0.250	0.120	0.250	0.120						
1-1/4	0.620	0.540	0.620	0.520	0.250	0.120	0.250	0.120	0.500	0.340	0.380	0.220	0.380	0.170
1-1/2	0.880	0.790	0.880	0.770	0.750	0.620	0.750	0.620	0.500	0.340	0.380	0.220	0.380	0.170
1-3/4	1.120	1.040	1.120	1.020	0.750	0.620	0.750	0.620	1.000	0.840	0.880	0.720	0.880	0.670
2			1.380	1.270	1.250	1.120	1.250	1.120	1.000	0.840	0.880	0.720	0.880	0.670
2-1/4					1.250	1.120	1.250	1.120	1.500	1.340	1.380	1.220	1.380	1.170
2-1/2							1.750	1.620	1.500	1.340	1.380	1.220	1.380	1.170
2-3/4									2.000	1.840	1.880	1.720	1.880	1.670
3											1.880	1.720	1.880	1.670
3-1/4											2.380	2.220	2.380	2.170
3-1/2													2.380	2.170
3-3/4													2.880	2.670
4													2.880	2.670

SIZE	1/4 (-4)		5/16 (-5)		3/8 (-6)		7/16 (-7)		1/2 (-8)	
	L _G	L _B	L _G	L _B	L _G	L _B	L _G	L _B	L _G	L _B
NOM. LENGTH										
1-1/2	0.500	0.250								
1-3/4	0.500	0.250	0.620	0.350	0.500	0.190				
2	1.000	0.750	0.620	0.350	0.500	0.190	0.620	0.270		
2-1/4	1.000	0.750	1.120	0.850	1.000	0.690	0.620	0.270	0.750	0.360
2-1/2	1.500	1.250	1.120	0.850	1.000	0.690	1.120	0.770	0.750	0.360
2-3/4	1.500	1.250	1.620	1.350	1.500	1.190	1.120	0.770	0.750	0.360
3	2.000	1.750	1.620	1.350	1.500	1.190	1.620	1.270	1.500	1.120
3-1/4	2.000	1.750	2.120	1.850	2.000	1.690	1.620	1.270	1.500	1.120
3-1/2	2.500	2.250	2.120	1.850	2.000	1.690	2.120	1.770	1.500	1.120
3-3/4	2.500	2.250	2.620	2.350	2.500	2.190	2.120	1.770	2.250	1.860
4	3.000	2.750	2.620	2.350	2.500	2.190	2.620	2.270	2.250	1.860
4-1/4	3.000	2.750	3.120	2.850	3.000	2.690	2.620	2.270	2.250	1.860
4-1/2	3.500	3.250	3.120	2.850	3.000	2.690	3.120	2.770	3.000	2.620
4-3/4	3.500	3.250	3.620	3.350	3.500	3.190	3.120	2.770	3.000	2.620
5	4.000	3.750	3.620	3.350	3.500	3.190	3.620	3.270	3.000	2.620
5-1/4			4.120	3.850	4.000	3.690	3.620	3.270	3.750	3.360
5-1/2			4.120	3.850	4.000	3.690	4.120	3.770	3.750	3.360
5-3/4			4.620	4.350	4.500	4.190	4.120	3.770	3.750	3.360
6			4.620	4.350	4.500	4.190	4.620	4.270	4.500	4.120
6-1/4			5.120	4.850	5.000	4.690	4.620	4.270	4.500	4.120
6-1/2					5.000	4.690	5.120	4.770	4.500	4.120
6-3/4					5.500	5.190	5.120	4.770	5.250	4.860
7					5.500	5.190	5.620	5.270	5.250	4.860
7-1/4					6.000	5.690	5.620	5.270	5.250	4.860
7-1/2					6.000	5.690	6.120	5.770	6.000	5.620
7-3/4							6.120	5.770	6.000	5.620
8							6.620	6.270	6.000	5.620
8-1/2							7.120	6.270	7.000	6.620
9							7.620	7.270	7.000	6.620
9-1/2									8.000	7.620
10									8.000	7.620

LG = THE MAXIMUM GRIP LENGTH AND IS THE DISTANCE FROM THE BEARING SURFACE TO THE FIRST COMPLETE THREAD.
 LB = THE MINIMUM BODY LENGTH AND IS THE LENGTH OF THE UNTHREADED CYLINDRICAL PORTION OF THE SHANK.
 LT = T MIN + 2 THREAD PITCHES.
 THE MAXIMUM TOTAL THREAD LENGTH WHICH INCLUDES THE IMPERFECT THREADS.

FOR LENGTHS LONGER THAN LISTED
 AND FOR SIZES OVER (1) INCH DIAMETER,
 USE FORMULA BELOW TO DETERMINE
 MAXIMUM GRIP LENGTH AND MINIMUM BODY LENGTH.

LG = LENGTH - T MIN
 LB = LENGTH - LT

SIZE	LENGTH TOLERANCE TABLE			
	UP TO 1" INCL.	OVER 1" TO 2-1/2 INCL.	OVER 2-1/2 TO 6" INCL.	OVER 6"
#2 THRU 3/8"	-0.03	-0.04	-0.06	-0.12
7/16" THRU 1/2"	-0.03	-0.06	-0.08	-0.12

TOLERANCES ±.010 AND ±2"
 SURFACE ROUGHNESS 125
 UNLESS OTHERWISE NOTED

DRAFTED
 IN ACCORDANCE
 WITH ASME Y14.5M



PART NUMBER:
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