## A Master Socket Table, Version 1.1

## By R. G. Sparber

Protected by Creative Commons.<sup>1</sup>

We can debate endlessly about metric versus SAE, but ultimately, we just want to remove that nut. Especially if the nut is rounded, the socket must be a close fit. Of course, this discussion also applies to wrenches.

We know the nut was once 3/8 inch, but maybe that is a little too loose now. What is the next smaller size? Rather than limit yourself to SAE, why not see if metric can help? I know that 3/8 inch converted to decimal starts with 0.3, so I look in that column. Ah, 9 mm might be a snug fit.

That 11	l mm socket v	won't fit, but	a 7/16 inch	nominally	0.005 inches	larger.

0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9		1.0		
i	nch	nom	inch	nom	inch	nom	inch	nom	inch	nom	inch	nom	inch	nom	inch	nom	inch	nom	inch	nom
0	.118	3 mm	0.219	7/32	0.313	5/16	0.406	13/32	0.500	1/2	0.625	5/8	0.709	18 mm	0.813	13/16	0.906	23 mm	1.000	1
0	.125	1/8	0.236	6 mm	0.315	8 mm	0.433	11 mm	0.512	13 mm	0.630	16 mm	0.719	23/32	0.827	21 mm	0.938	15/16	1.024	26 mm
0	.156	4 mm	0.250	1/4	0.344	11/32	0.438	7/16	0.531	17/32	0.656	21/32	0.748	19 mm	0.844	27/32	0.945	24 mm	1.031	1-1/32
0	.157	5/32	0.276	7 mm	0.354	9 mm	0.469	15/32	0.551	14 mm	0.669	17 mm	0.750	3/4	0.866	22 mm	0.969	31/32	1.063	1-1/16
0	.188	3/16	0.281	9/32	0.375	3/8	0.472	12 mm	0.563	9/16	0.688	11/16	0.781	25/32	0.875	7/8	0.984	25 mm	1.063	27 mm
0	.197	5 mm			0.394	10 mm			0.591	15 mm	RG Sp	arber	0.787	20 mm					1.094	1-3/32
									0.594	19/32	11/6/	2020							1.102	28 mm

<sup>&</sup>lt;sup>1</sup> This work is licensed under the Creative Commons Attribution 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by/4.0/ or send a letter to Creative Commons, PO Box 1866, Mountain View, CA 94042, USA.

I welcome your comments and questions.

If you want me to contact you each time I publish an article, email me with "Subscribe" in the subject line. In the body of the email, please tell me if you are interested in metalworking, software plus electronics, kayaking, and/or the Lectric XP eBike so I can put you on the right distribution list.

If you are on a list and have had enough, email me "Unsubscribe" in the subject line. No hard feelings.

Rick Sparber <u>Rgsparber.ha@gmail.com</u> Rick.Sparber.org