

FORD/GM ROUND WELD NUTS

Ford Round Projection Weld Nuts - Threaded

Nominal Size	Pitch	d_a	Pilot Dia., d_e		H		h_1		h_2		Ford Part Numbers
		± 0.2	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Steel
											Plain
M4	0.7	13.5	5.5	5.7	4.15	4.45	1.10	1.35	0.65	0.85	W520700
MS	0.8	14.5	6.5	6.7	4.40	4.70	1.10	1.35	0.65	0.85	W520701
MG	1	16.3	7.5	7.7	4.90	5.20	1.30	1.55	0.75	1.00	W520702
MS	1.25	22	10.4	10.7	6.44	6.80	1.75	2.00	1.19	1.50	W520703
M10	1.50	24	12.4	12.7	8.04	8.40	1.75	2.00	1.19	1.50	W520704
M12	1.75	27.5	14.4	14.7	10.37	10.80	2.25	2.50	1.78	2.00	W520705
M14	2.00	29.5	16.4	16.7	14.5	15.0	2.25	2.50	1.78	2.00	W520706

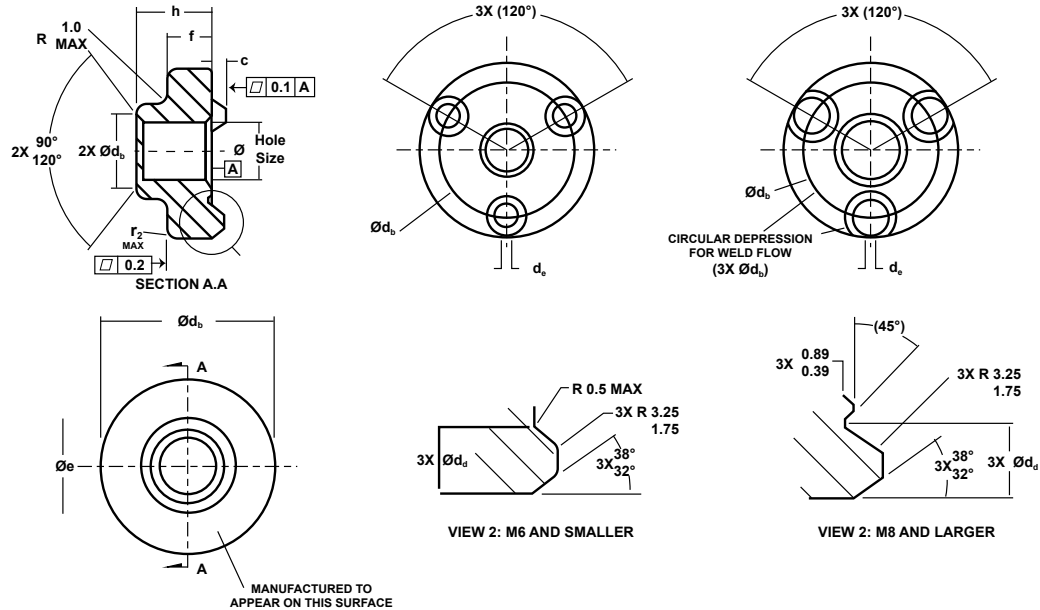
Unthreaded

Nominal Size	Hole Size	Ford Part Numbers
		Steel
	± 0.5	Plain
M4	3.68	W520710
MS	4.64	W520711
MG	5.5	W520712
MS	7.35	W520713
M10	9.3	W520714
M12	11.2	W520715
M14	13.2	W520716

GM Round Projection Weld Nuts

Nominal Size	Thread Pitch	E		O		P	S		T		Hole Punch Size	GM Part Numbers	
		Overall Set Down Height		Extrusion Outer Diameter		Projection Height	Major Diameter		Nut Thickness			Steel	
												Plain	Thread Mask
MG	1.00	5.8	6.3	8.4	8.9	1.95	18.75	19.25	3.95	4.35	8.5	11517411	22595491
MS	1.25	8.5	9.0	11.2	11.7	1.95	26.30	27.30	5.45	5.91	11.0	11514712	11517413
M10	1.50	9.6	10.2	13.2	14.0	1.95	28.80	29.80	6.00	6.40	13.0	20423400	11517762
M12	1.75	15.0	16.6	16.0	16.3	1.95	31.50	33.50	7.00	8.00	15.0	20297400	22595493

FORD ROUND WELD NUTS



Ford Round Weld Nuts – Tall Projections

Nominal Size		M5	M6	M8	M10	M12	M14	M16
Pitch (Threaded)		0.8	1	1.25	1.5	1.75	2.0	2.0
Hole size (Unthreaded) +/-0.05		4.65	5.5	7.35	9.3	11.2	13.2	15.06
c	min.	1.7	1.7	1.9	1.9	2.0	2.0	2.0
	max.	1.9	1.9	2.1	2.1	2.2	2.2	2.2
d _a	max.	6.0	7.0	9.5	11.5	14	16	18
Ø d _b	+/-0.20	14.6	14.6	17.8	21.2	25.0	28.0	31.0
d _c	min.	18.5	18.5	21.5	25.5	29.0	32.5	35.5
	max.	19.0	19.0	22.5	26.5	30.0	33.5	36.5
d _d	min.	4.2	4.2	4.7	5.1	5.3	5.3	5.3
	max.	4.5	4.5	5.0	5.4	5.6	5.6	5.6
d _e	max.	0.80	0.80	1.20	1.50	1.50	1.50	1.50
d _r	ref.	-	-	5.5	5.7	5.9	5.9	5.9
e	min.	8.5	9.5	12.0	14.0	17.0	20.0	23.0
	max.	9.0	10.0	12.5	14.5	17.5	20.5	23.5
f	min.	3.0	4.0	6.0	7.0	7.5	8.0	9.25
	max.	3.5	4.5	6.5	7.5	8.0	8.5	9.75
h	min.	5.64	6.64	9.64	12.57	14.57	16.16	18.66
	max.	6.00	7.00	10.00	13.00	15.00	17.00	19.55
r ₂		1.0	1.0	1.1	1.1	1.25	1.25	1.25
Recommended Panel Hole Dia.		See latest ESBUS5A-1294-AB Global Generic Tolerances for Sheet Metal Components or DR-020100-713387 Fastener Projection Welding: Hole Size and Tolerance						
Recommended Metal Thickness		See Design Rule DR-010100-705937 Fastener Projection Welding Nut Usage Matrix						
Part Number	Threaded	W520850	W520851	W520852	W520853	W520854	W520855	W520856
Part Number	Unthreaded	W520860	W520861	W520862	W520863	W520864	W520865	W520866