

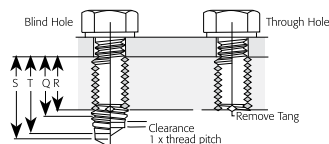
Recoil Inch Insert Part Number Call-Out and Dimensional Data

Thread Nominal UNC	Nominal Length Dia	Free Running Part Number	Screw Locking Part Number	Insert Length		Number of Coils	Free Coil Dia		BASIC LENGTH OF INSERT NOMINAL DIAMETER OF SCREW "D"			
				inches	mm		Min.	Max	Q	R	S	T
#2 - 56	1D	03522	13522	0.086	2.2	3.000			0.086	0.068	0.166	0.148
	1.5D	03523	13523	0.129	3.3	5.250	.110		0.129	0.111	0.209	0.191
	2D	03524	13524	0.172	4.4	7.375	.119		0.172	0.154	0.252	0.234
	2.5D	03525	13525	0.215	5.5	9.625			0.215	0.197	0.295	0.277
	3D	03526	13526	0.258	6.6	11.875			0.258	0.240	0.338	0.320
#3 - 48	1D	03532	13532	0.099	2.5	2.875			0.099	0.078	0.193	0.172
	1.5D	03533	13533	0.149	3.8	5.000	.128		0.148	0.127	0.242	0.221
	2D	03534	13534	0.198	5	7.250	.139		0.198	0.177	0.292	0.271
	2.5D	03535	13535	0.248	6.3	9.375			0.248	0.227	0.342	0.321
	3D	03536	13536	0.297	7.5	11.500			0.297	0.276	0.391	0.370
#4 - 40	1D	03542	13542	0.112	2.8	2.750			0.112	0.087	0.224	0.199
	1.5D	03543	13543	0.168	4.3	4.750	.144		0.168	0.143	0.28	0.255
	2D	03544	13544	0.224	5.7	6.750	.159		0.224	0.199	0.336	0.311
	2.5D	03545	13545	0.280	7.1	8.875			0.280	0.255	0.392	0.367
	3D	03546	13546	0.336	8.5	10.875			0.336	0.311	0.448	0.423
#5 - 40	1D	03552	13552	0.112	2.8	3.250			0.125	0.100	0.237	0.212
	1.5D	03553	13553	0.168	4.3	5.500	.158		0.187	0.162	0.300	0.275
	2D	03554	13554	0.224	5.7	7.750	.173		0.250	0.225	0.362	0.337
	2.5D	03555	13555	0.280	7.1	10.000			0.312	0.287	0.425	0.400
	3D	03556	13556	0.336	8.5	12.250			0.375	0.350	0.487	0.462
#6 - 32	1D	03562	13562	0.138	3.5	2.750			0.138	0.107	0.279	0.247
	1.5D	03563	13563	0.207	5.3	4.750	.178		0.207	0.176	0.348	0.316
	2D	03564	13564	0.276	7	6.875	.193		0.276	0.245	0.417	0.385
	2.5D	03565	13565	0.345	8.8	8.875			0.345	0.314	0.486	0.454
	3D	03566	13566	0.414	10.5	10.750			0.414	0.383	0.555	0.523
#8 - 32	1D	03582	13582	0.164	4.2	3.500			0.164	0.133	0.305	0.273
	1.5D	03583	13583	0.246	6.2	6.000	.205		0.246	0.215	0.387	0.355
	2D	03584	13584	0.328	8.3	8.375	.220		0.328	0.297	0.469	0.437
	2.5D	03585	13585	0.410	10.4	10.750			0.410	0.379	0.551	0.519
	3D	03586	13586	0.492	12.5	13.250			0.492	0.461	0.633	0.601
#10 - 24	1D	03602	13602	0.190	4.8	2.875			0.190	0.148	0.377	0.336
	1.5D	03603	13603	0.285	7.2	5.000	.244		0.285	0.243	0.472	0.431
	2D	03604	13604	0.380	9.7	7.125	.259		0.380	0.338	0.567	0.526
	2.5D	03605	13605	0.475	12.1	9.250			0.475	0.433	0.662	0.621
	3D	03606	13606	0.570	14.5	11.375			0.570	0.528	0.757	0.716
#12 - 24	1D	03622	13622	0.216	5.5	3.500			0.216	0.174	0.404	0.362
	1.5D	03623	13623	0.324	8.2	6.000	.270		0.324	0.282	0.512	0.470
	2D	03624	13624	0.432	11	8.375	.285		0.432	0.390	0.620	0.578
	2.5D	03625	13625	0.540	13.7	10.625			0.540	0.498	0.727	0.686
	3D	03626	13626	0.648	16.5	13.125			0.648	0.606	0.836	0.794
1/4-20	1D	03042	13042	0.250	6.4	3.375			0.250	0.200	0.475	0.425
	1.5D	03043	13043	0.375	9.5	5.750	.310		0.375	0.325	0.600	0.550
	2D	03044	13044	0.500	12.7	8.000	.330		0.500	0.450	0.725	0.675
	2.5D	03045	13045	0.625	15.9	10.375			0.625	0.575	0.850	0.800
	3D	03046	13046	0.750	19.1	12.750			0.750	0.700	0.975	0.925

Drill Depth: The minimum drilling depth "S" allows for one pitch chip clearance between the tip of the tap and the bottom of the drilled hole. "S" minimum allows for tap clearance, the maximum amount of insert set-down and countersink. Where a spiral pointed tap is used, the drill depths shown should be increased to allow for chip clearance.

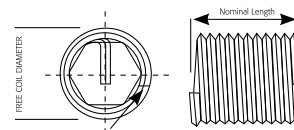
Fitted Insert:

- R = Maximum length of engaged portion of screw when tang is removed.
- Q = Minimum full tapped thread length.
- T = Minimum tapping depth - including 3 1/2 threads of plug tap.
- S = Minimum drill depth - excluding point.



Note: Recoil metric inserts are made to Din locking torque requirements. Military specification MA parts need to be specifically ordered by adding MA to the standard part number above.

Note: Dimensions shown are for MA parts only.



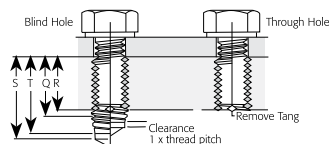
Recoil Inch Insert Part Number Call-Out and Dimensional Data

Thread Nominal UNC	Nominal Length Dia	Free Running Part Number	Screw Locking Part Number	Insert Length		Number of Coils	Free Coil Dia		BASIC LENGTH OF INSERT NOMINAL DIAMETER OF SCREW "D"			
				inches	mm		Min.	Max	Q	R	S	T
5/16-18	1D	03052	13052	0.313	8	4.000			0.312	0.257	0.562	0.507
	1.5D	03053	13053	0.470	11.9	6.625	.380		0.469	0.413	0.719	0.663
	2D	03054	13054	0.626	15.9	9.250	.400		0.625	0.569	0.875	0.819
	2.5D	03055	13055	0.783	19.9	11.875			0.781	0.726	1.031	0.976
	3D	03056	13056	0.939	23.9	14.625			0.937	0.882	1.187	1.132
3/8-16	1D	03062	13062	0.375	9.5	4.375			0.375	0.312	0.656	0.594
	1.5D	03063	13063	0.563	14.3	7.250	.452		0.562	0.500	0.844	0.781
	2D	03064	13064	0.750	19.1	10.000	.472		0.750	0.687	1.031	0.969
	2.5D	03065	13065	0.938	23.8	12.875			0.937	0.875	1.219	1.156
	3D	03066	13066	1.125	28.6	15.750			1.125	1.062	1.406	1.344
7/16-14	1D	03072	13072	0.438	11.1	4.500			0.437	0.366	0.759	0.687
	1.5D	03073	13073	0.657	16.7	7.375	.526		0.656	0.585	0.978	0.906
	2D	03074	13074	0.876	22.3	10.250	.551		0.875	0.804	1.196	1.125
	2.5D	03075	13075	1.095	27.8	13.125			1.094	1.022	1.415	1.343
	3D	03076	13076	1.314	33.4	16.125			1.312	1.241	1.634	1.562
1/2-13	1D	03082	13082	0.500	12.7	4.875			0.500	0.423	0.846	0.769
	1.5D	03083	13083	0.750	19.1	7.875	.597		0.750	0.673	1.096	1.019
	2D	03084	13084	1.000	25.4	11.000	.622		1.000	0.923	1.346	1.269
	2.5D	03085	13085	1.250	31.8	14.125			1.250	1.173	1.596	1.519
	3D	03086	13086	1.500	38.1	17.125			1.500	1.423	1.846	1.769
9/16-12	1D	03092	13092	0.563	14.3	5.125			0.562	0.479	0.937	0.854
	1.5D	03093	13093	0.845	21.5	8.250	.669		0.844	0.760	1.219	1.135
	2D	03094	13094	1.126	28.6	11.500	.694		1.125	1.042	1.500	1.417
	2.5D	03095	13095	1.408	35.8	14.750			1.406	1.323	1.781	1.698
	3D	03096	13096	1.689	42.9	17.125			1.687	1.604	2.062	1.979
5/8-11	1D	03102	13102	0.625	15.9	5.250			0.625	0.534	1.034	0.943
	1.5D	03103	13103	0.938	23.8	8.500	.742		0.937	0.846	1.347	1.256
	2D	03104	13104	1.250	31.8	11.750	.767		1.250	1.159	1.659	1.568
	2.5D	03105	13105	1.563	39.7	15.000			1.562	1.471	1.972	1.881
	3D	03106	13106	1.875	47.6	18.375			1.875	1.784	2.284	2.193
11/16-11	1D	03112	Upon Request	0.688	17.5	5.75			17.46	15.15	27.85	25.54
	1.5D	03113	Upon Request	1.032	26.2	9.80	.809		26.19	23.88	36.58	34.28
	2D	03114	Upon Request	1.376	35	12.95	.826		34.93	32.62	45.32	43.01
	2.5D	03115	Upon Request	1.720	43.7	16.55			43.66	41.35	54.05	51.74
	3D	03116	Upon Request	2.064	52.4	20.15			52.39	50.08	62.78	60.47
3/4-10	1D	03122	13122	0.750	19.1	5.875			0.750	0.650	1.200	1.100
	1.5D	03123	13123	1.125	28.6	9.375	.881		1.125	1.025	1.575	1.475
	2D	03124	13124	1.500	38.1	13.000	.906		1.500	1.400	1.950	1.850
	2.5D	03125	13125	1.875	47.6	16.500			1.875	1.775	2.325	2.225
	3D	03126	13126	2.250	57.2	20.125			2.250	2.150	2.700	2.600
7/8-9	1D	03142	13142	0.875	22.2	6.250			0.875	0.764	1.375	1.264
	1.5D	03143	13143	1.313	33.3	10.000	1.022		1.312	1.201	1.812	1.701
	2D	03144	13144	1.750	44.5	13.750	1.052		1.750	1.639	2.250	2.139
	2.5D	03145	13145	2.188	55.6	17.500			2.187	2.076	2.687	2.576
	3D	03146	13146	2.625	66.7	21.250			2.625	2.514	3.125	3.014

Drill Depth: The minimum drilling depth "S" allows for one pitch chip clearance between the tip of the tap and the bottom of the drilled hole. "S" minimum allows for tap clearance, the maximum amount of insert set-down and countersink. Where a spiral pointed tap is used, the drill depths shown should be increased to allow for chip clearance.

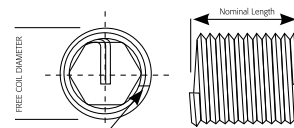
Fitted Insert:

- R = Maximum length of engaged portion of screw when tang is removed.
- Q = Minimum full tapped thread length.
- T = Minimum tapping depth - including 3 1/2 threads of plug tap.
- S = Minimum drill depth - excluding point.



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Recoil Inch Insert Part Number Call-Out and Dimensional Data

Thread Nominal UNC	Nominal Length Dia	Free Running Part Number	Screw Locking Part Number	Insert Length		Number of Coils	Free Coil Dia Min. Max	BASIC LENGTH OF INSERT NOMINAL DIAMETER OF SCREW "D"			
				inches	mm			Q	R	S	T
1" - 8	1D	03162	13162	1.000	25.4	6.375		1.000	0.875	1.563	1.437
	1.5D	03163	13163	1.500	38.1	10.125	1.166	1.500	1.375	2.062	1.937
	2D	03164	13164	2.000	50.8	14.000	1.196	2.000	1.875	2.562	2.437
	2.5D	03165	13165	2.500	63.5	17.750		2.500	2.375	3.062	2.937
	3D	03166	13166	3.000	76.2	21.625		3.000	2.875	3.562	3.437
1 1/8 - 7	1D	03182	13182	1.125	28.6	6.125		1.125	0.982	1.768	1.625
	1.5D	03183	13183	1.688	42.9	9.875	1.315	1.687	1.545	2.330	2.187
	2D	03184	13184	2.250	57.2	13.625	1.355	2.250	2.107	2.893	2.750
	2.5D	03185	13185	2.813	71.4	17.500		2.812	2.670	3.455	3.312
	3D	03186	13186	3.375	85.7	21.250		3.375	3.232	4.018	3.875
1 1/4 - 7	1D	03202	13202	1.250	31.8	7.000		1.250	1.107	1.893	1.750
	1.5D	03203	13203	1.875	47.6	11.250	1.443	1.875	1.732	2.518	2.375
	2D	03204	13204	2.500	63.5	15.375	1.483	2.500	2.357	3.143	3.000
	2.5D	03205	13205	3.125	79.4	19.500		3.125	2.982	3.768	3.625
	3D	03206	13206	3.750	95.3	23.750		3.750	3.607	4.393	4.250
1 3/8 - 6	1D	03222	13222	1.375	34.9	6.500		1.375	1.208	2.125	1.958
	1.5D	03223	13223	2.063	52.4	10.500	1.598	2.062	1.896	2.812	2.646
	2D	03224	13224	2.750	69.9	14.375	1.643	2.750	2.583	3.500	3.333
	2.5D	03225	13225	3.438	87.3	18.375		3.437	3.270	4.187	4.021
	3D	03226	13226	4.125	104.8	22.250		4.125	3.958	4.875	4.708
1 1/2 - 6	1D	03242	13242	1.500	38.1	7.250		1.500	1.333	2.250	1.083
	1.5D	03243	13243	2.250	57.2	11.500	1.727	2.250	2.083	3.000	2.833
	2D	03244	13244	3.000	76.2	15.875	1.772	3.000	2.833	3.750	3.583
	2.5D	03245	13245	3.750	95.3	20.125		3.750	3.583	4.500	4.333
	3D	03246	13246	4.500	114.3	24.500		4.500	4.333	5.250	5.083

Thread Nominal UNF	Nominal Length Dia	Part Number	Recoil Spec		MS Spec				Free Coil Dia Min/Max	BASIC LENGTH OF INSERT NOMINAL DIAMETER OF SCREW 'D'				
			Free Running Min/Max	Number of coils	Free Running Part Number	Screw Locking Part Number	Insert Length Inches mm	Number of coils		Q	R	S	T	
#3 - 56	1D	04532		3.60	04532MS	14532	0.099	2.5	3.375		0.099	0.081	0.179	0.161
	1.5D	04533		6.05	04533MS	14533	0.149	3.8	5.625	.131	0.148	0.130	0.228	0.210
	2D	04534	3.15 - 3.25	8.65	04534MS	14534	0.198	5	8.000	.146	0.198	0.180	0.278	0.260
	2.5D	04535		11.25	04535MS		0.248	6.3	10.375		0.248	0.230	0.328	0.310
	3D	04536		13.75	04536MS		0.297	7.5	12.625		0.297	0.279	0.377	0.359
#4 - 48	1D	04542		3.55	04542MS	14542	0.112	2.8	3.375		0.112	0.091	0.206	0.185
	1.5D	04543		5.95	04543MS	14543	0.168	4.3	5.625	.147	0.168	0.147	0.262	0.241
	2D	04544	3.57 - 3.67	8.25	04544MS	14544	0.224	5.7	7.875	.162	0.224	0.203	0.318	0.297
	2.5D	04545		10.95	04545MS		0.280	7.1	10.250		0.280	0.259	0.374	0.353
	3D	04546		13.35	04546MS		0.336	8.5	12.500		0.336	0.315	0.430	0.409
#6 - 40	1D	04562		3.55	04562MS	14562	0.138	3.5	3.500		0.138	0.113	0.250	0.225
	1.5D	04563		6.15	04563MS	14563	0.207	5.3	6.000	.173	0.207	0.182	0.319	0.294
	2D	04564	4.38 - 4.50	8.65	04564MS	14564	0.276	7	8.375	.193	0.276	0.251	0.388	0.363
	2.5D	04565		11.15	04565MS		0.345	8.8	10.750		0.345	0.320	0.457	0.432
	3D	04566		13.75	04566MS		0.414	10.5	13.250		0.414	0.389	0.526	0.501

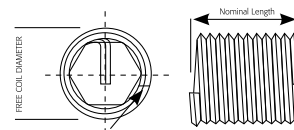
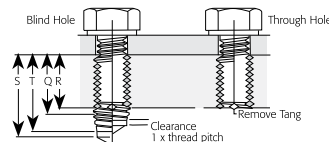
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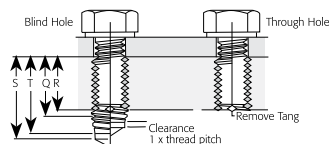
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			Free Running Free Coil Dia Min/Max	Number of coils	Free running Part Number	Screw Locking Part Number	Insert Length Inches mm	Number of coils	FreeCoil Dia Min/Max	NOMINAL DIAMETER OF SCREW 'D'					
										Q	R	S	T		
#8 - 36	1D	04582	5.14 - 5.28	3.85	04582MS	14582	0.164	4.2	3.875	.204	0.164	0.136	0.289	0.261	
	1.5D	04583		6.85	04583MS	14583	0.246	6.2	6.500		0.246	0.218	0.371	0.343	
	2D	04584		9.35	04584MS	14584	0.328	8.3	9.125		.224	0.328	0.300	0.453	0.425
	2.5D	04585		11.95	04585MS		0.410	10.4	11.625			0.410	0.382	0.535	0.507
	3D	04586		14.65	04586MS		0.492	12.5	14.250			0.492	0.464	0.617	0.589
#10 - 32	1D	04602	5.85 - 6.00	4.25	04602MS	14602	0.190	4.8	4.125	.236	0.190	0.159	0.331	0.299	
	1.5D	04603		7.05	04603MS	14603	0.285	7.2	6.875		.256	0.285	0.254	0.426	0.394
	2D	04604		9.95	04604MS	14604	0.380	9.7	9.500			0.380	0.349	0.521	0.489
	2.5D	04605		12.25	04605MS	14605	0.475	12.1	12.000			0.475	0.444	0.616	0.584
	3D	04606		15.65	04606MS	14606	0.570	14.5	14.875			0.570	0.539	0.711	0.679
#12 - 28	1D				04622MS		0.216	5.5	4.25		5.49	4.58	9.57	8.66	
	1.5D				04623MS		0.324	8.2	7.30	.265	8.23	7.32	12.31	11.40	
	2D				04624MS	Upon Req.	0.432	11	9.85	.275	10.97	10.07	15.05	14.15	
	2.5D						0.540	13.7							
	3D						0.648	16.5							
1/4-28	1D	04042	7.60-7.80	5.05	04042MS	14042	0.250	6.4	5.000	.306	0.250	0.214	0.411	0.375	
	1.5D	04043		8.45	04043MS	14043	0.375	9.5	8.250		.326	0.375	0.339	0.536	0.500
	2D	04044		11.65	04044MS	14044	0.500	12.7	11.375			0.500	0.464	0.661	0.625
	2.5D	04045		14.95	04045MS	14045	0.625	15.9	14.500			0.625	0.589	0.786	0.750
	3D	04046		18.15	04046MS	14046	0.750	19.1	17.625			0.750	0.714	0.911	0.875
5/16-24	1D	04052	9.45-9.65	5.55	04052MS	14052	0.313	8	5.500	.380	0.312	0.271	0.500	0.458	
	1.5D	04053		9.05	04053MS	14053	0.470	11.9	8.875		.400	0.469	0.428	0.656	0.615
	2D	04054		12.55	04054MS	14054	0.626	15.9	12.250			0.625	0.583	0.812	0.771
	2.5D	04055		16.15	04055MS	14055	0.783	19.9	15.625			0.781	0.740	0.969	0.927
	3D	04056		19.65	04056MS	14056	0.939	23.9	19.000			0.937	0.896	1.125	1.083
3/8-24	1D	04062	11.00-11.20	7.05	04062MS	14062	0.375	9.5	6.875	.448	0.375	0.333	0.562	0.521	
	1.5D	04063		11.25	04063MS	14063	0.563	14.3	11.000		.468	0.562	0.521	0.750	0.708
	2D	04064		15.45	04064MS	14064	0.750	19.1	15.000			0.750	0.708	0.937	0.896
	2.5D	04065		19.75	04065MS	14065	0.938	23.8	19.125			0.937	0.896	1.125	1.083
	3D	04066		23.95	04066MS	14066	1.125	28.6	23.125			1.125	1.083	1.312	1.271
7/16-20	1D	04072	12.96-13.20	6.85	04072MS	14072	0.438	11.1	6.625	.524	0.437	0.387	0.662	0.612	
	1.5D	04073		11.05	04073MS	14073	0.657	16.7	10.625		.549	0.656	0.606	0.881	0.831
	2D	04074		15.25	04074MS	14074	0.876	22.3	14.625			0.875	0.825	1.100	1.050
	2.5D	04075		19.75	04075MS	14075	1.095	27.8	18.500			1.094	1.044	1.319	1.269
	3D	04076		23.45	04076MS	14076	1.314	33.4	22.500			1.312	1.262	1.537	1.488
1/2-20	1D	04082	14.60-14.90	8.05	04082MS	14082	0.500	12.7	7.875	.592	0.500	0.450	0.725	0.675	
	1.5D	04083		12.75	04083MS	14083	0.750	19.1	12.375		.617	0.750	0.700	0.975	0.925
	2D	04084		17.45	04084MS	14084	1.000	25.4	16.875			1.000	0.950	1.225	1.175
	2.5D	04085		22.05	04085MS	14085	1.250	31.8	21.375			1.250	1.200	1.475	1.425
	3D	04086		26.75	04086MS	14086	1.500	38.1	25.875			1.500	1.450	1.725	1.675
9/16-18	1D	04092	16.38-16.68	8.15	04092MS	14092	0.563	14.3	8.000	.666	0.562	0.507	0.812	0.757	
	1.5D	04093		12.85	04093MS	14093	0.845	21.5	12.500		.691	0.844	0.788	1.094	1.038
	2D	04094		17.65	04094MS	14094	1.126	28.6	17.125			1.125	1.068	1.375	1.319
	2.5D	04095		22.45	04095MS	14095	1.408	35.8	21.750			1.406	1.351	1.656	1.601
	3D	04096		27.15	04096MS	14096	1.689	42.9	26.250			1.687	1.632	1.937	1.882

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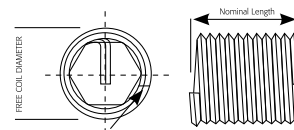
Fitted Insert:

- R = Maximum length of engaged portion of screw when tang is removed.
- Q = Minimum full tapped thread length.
- T = Minimum tapping depth - including 3 1/2 threads of plug tap.
- S = Minimum drill depth - excluding point.



Note: Recoil metric inserts are made to Din locking torque requirements. Military specification MA parts need to be specifically ordered by adding MA to the standard part number above.

Note: Dimensions shown are for MA parts only.



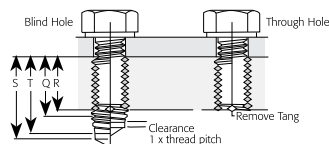
Recoil Inch Insert Part Number Call-Out and Dimensional Data

Thread Nominal UNF	Nominal Length Dia	Part Number	Recoil Spec		MS spec				BASIC LENGTH OF INSERT					
			Free Running Free Coil Dia Min/Max	Number of coils	Free running Part Number	Screw Locking Part Number	Insert Length Inches mm	Number of coils	FreeCoil Dia Min/Max	NOMINAL DIAMETER OF SCREW 'D'				
										Q	R	S	T	
5/8-18	1D	04102	18.00-18.30	9.25	04102MS	14102	0.625	15.9	9.000	.733 .758	0.625	0.569	0.875	0.819
	1.5D	04103		14.55	04103MS	14103	0.938	23.8	14.125		0.937	0.882	1.187	1.132
	2D	04104		20.05	04104MS	14104	1.250	31.8	19.250		1.250	1.194	1.500	1.444
	2.5D	04105		25.05	04105MS	14105	1.563	39.7	24.250		1.562	1.507	1.812	1.757
	3D	04106		30.45	04106MS	14106	1.875	47.6	29.375		1.875	1.819	2.125	2.069
3/4-16	1D	04122	21.20-21.60	9.95	04122MS	14122	0.750	19.1	9.750	.876 .901	0.750	0.687	1.031	0.969
	1.5D	04123		15.55	04123MS	14123	1.125	28.6	15.125		1.125	1.062	1.406	1.344
	2D	04124		21.35	04124MS	14124	1.500	38.1	20.625		1.500	1.437	1.781	1.719
	2.5D	04125		26.85	04125MS	14125	1.875	47.6	26.000		1.875	1.812	2.156	2.094
	3D	04126		32.65	04126MS	14126	2.250	57.2	31.500		2.250	2.187	2.531	2.469
7/8-14	1D	04142	24.97 - 25.33	10.15	04142MS	14142	0.875	22.2	9.875	1.021 1.051	0.875	0.804	1.196	1.125
	1.5D	04143		16.15	04143MS	14143	1.313	33.3	15.500		1.312	1.241	1.634	1.562
	2D	04144		22.05	04144MS	14144	1.750	44.5	21.125		1.750	1.679	2.071	2.000
	2.5D	04145		27.85	04145MS	14145	2.188	55.6	26.625		2.187	2.116	2.509	2.437
	3D	04146		33.75	04146MS	14146	2.625	66.7	32.250		2.625	2.554	2.946	2.875
1" - 12	1D	04162	28.47 - 28.83	9.95	04162MS	14162	1.000	25.4	9.625	1.169 1.199	1.000	0.917	1.375	1.292
	1.5D	04163		15.65	04163MS	14163	1.500	38.1	15.000		1.500	1.417	1.875	1.792
	2D	04164		21.35	04164MS	14164	2.000	50.8	20.500		2.000	1.917	2.375	2.292
	2.5D	04165		27.15	04165MS	14165	2.500	63.5	26.000		2.500	2.417	2.875	2.792
	3D	04166		32.95	04166MS	14166	3.000	76.2	31.500		3.000	2.917	3.375	3.292
1" - 14	1D	04162-14	28.07 - 28.43	11.95	04162-14MS	14162-14	8.364	25.4	11.500	1.156 1.186	25.40	23.59	33.56	31.75
	1.5D	04163-14		18.55	04163-14MS	14163-14	9.641	38.1	17.875		38.10	36.29	46.26	44.45
	2D	04164-14		25.05	04164-14MS	14164-14	11.059	50.8	24.250		50.80	48.99	58.96	57.15
	2.5D	04165-14		31.75	04165-14MS	14165-14	13.043	63.5	30.625		63.50	61.69	71.66	69.85
	3D	04166-14		38.35	04166-14MS	14166-14	14.745	76.2	37.000		76.20	74.39	84.36	82.55
1 1/8 - 12	1D	04182	31.72 - 32.10	11.55	04182MS	14182	1.125	28.6	11.125	1.304 1.334	1.125	1.042	1.500	1.417
	1.5D	04183		17.95	04183MS	14183	1.688	42.9	17.250		1.687	1.604	2.062	1.979
	2D	04184		24.35	04184MS	14184	2.250	57.2	23.375		2.250	2.167	2.625	2.542
	2.5D	04185		30.85	04185MS	14185	2.813	71.4	29.500		2.812	2.729	3.187	3.104
	3D	04186		37.35	04186MS	14186	3.375	85.7	35.750		3.375	3.292	3.750	3.667
1 1/4 - 12	1D	04202	34.90 - 35.30	12.95	04202MS	14202	1.250	31.8	12.500	1.439 1.469	1.250	1.167	1.625	1.542
	1.5D	04203		20.15	04203MS	14203	1.875	47.6	19.375		1.875	1.792	2.250	2.167
	2D	04204		27.45	04204MS	14204	2.500	63.5	26.250		2.500	2.417	2.875	2.792
	2.5D	04205		34.55	04205MS	14205	3.125	79.4	33.000		3.125	3.042	3.500	3.417
	3D	04206		41.75	04206MS	14206	3.750	95.3	39.875		3.750	3.667	4.125	4.042
1 3/8 - 12	1D	04222	38.22 - 38.52	14.25	04222MS	14222	1.375	34.9	13.750	1.575 1.610	1.375	1.292	1.750	1.667
	1.5D	04223		22.25	04223MS	14223	2.063	52.4	21.375		2.062	1.979	2.437	2.354
	2D	04224		30.15	04224MS	14224	2.750	69.9	28.875		2.750	2.667	3.125	3.042
	2.5D	04225		38.15	04225MS	14225	3.438	87.3	36.500		3.437	3.354	3.812	3.729
	3D			46.05					44.000		4.125	4.042	4.500	4.417
1 1/2 - 12	1D	04242	41.38 - 41.78	15.85	04242MS	14242	1.500	38.1	15.250	1.710 1.745	1.500	1.417	1.875	1.792
	1.5D	04243		24.55	04243MS	14243	2.250	57.2	23.500		2.250	2.167	2.625	2.542
	2D	04244		33.05	04244MS	14244	3.000	76.2	31.625		3.000	2.917	3.375	3.292
	2.5D	04245		41.75	04245MS	14245	3.750	95.3	39.875		3.750	3.667	4.125	4.042
	3D	04246		50.35	04246MS	14246	4.500	114.3	48.125		4.500	4.417	4.875	4.792

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