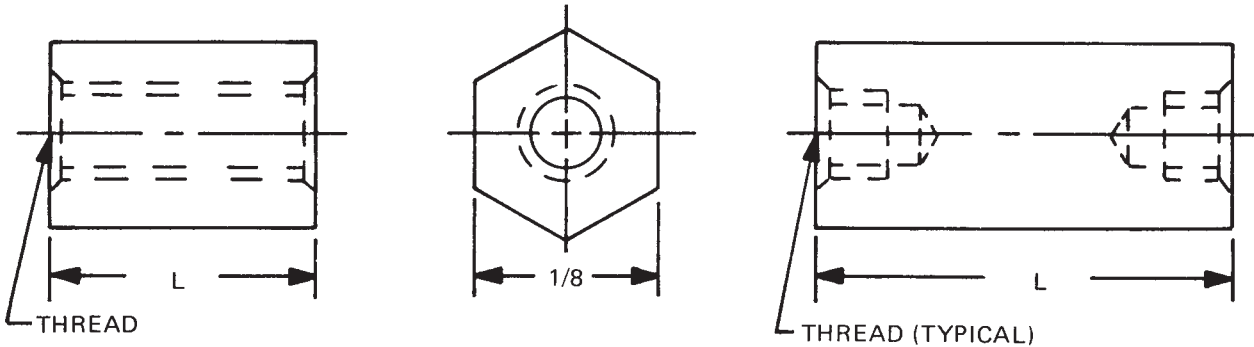
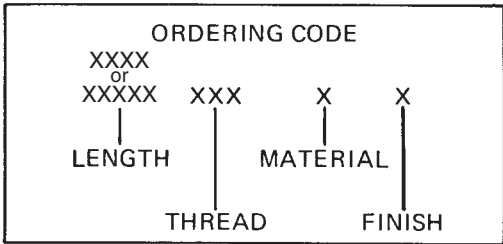


1/8 HEX FEMALE STANDOFFS



See page 10 for thread depth chart
See page 9 for finish codes
For non-standard parts contact Sales Office

LENGTH	PART NO.
3/32	2020A
1/8	2020
5/32	2020T
3/16	2021
7/32	2021T
1/4	2022
9/32	2022T
5/16	2023
11/32	2023T
3/8	2024
13/32	2024T
7/16	2025
15/32	2025T
1/2	2026
17/32	2026T
9/16	2027
19/32	2027T
5/8	2028
21/32	2028T
11/16	2029
23/32	2029T
3/4	2030
25/32	2030T
13/16	2031
27/32	2031T
7/8	2032
29/32	2032T
15/16	2033
31/32	2033T
1"	2034

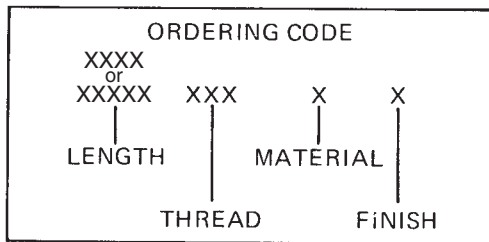
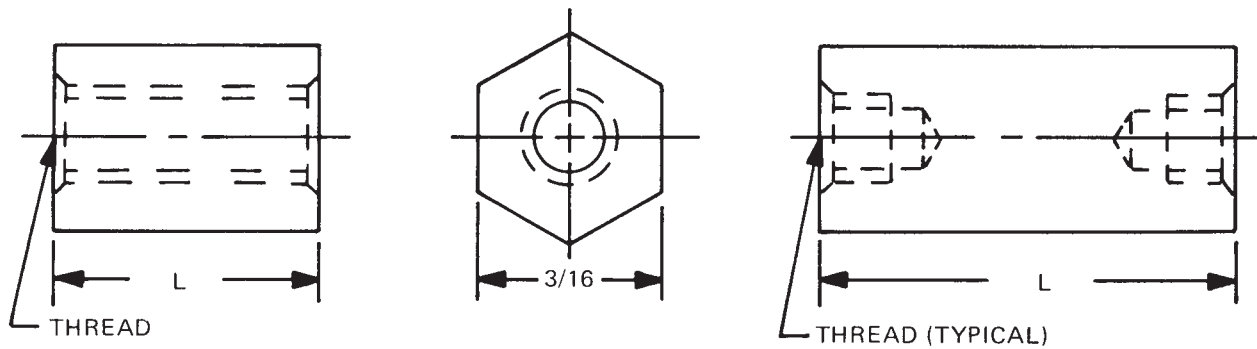


LENGTH	PART NO.
1-1/16	2035
1-1/8	2036
1-3/16	2037
1-1/4	2038
1-5/16	2039
1-3/8	2040
1-7/16	2041
1-1/2	2042
1-9/16	2043
1-5/8	2044
1-11/16	2045
1-3/4	2046
1-13/16	2047
1-7/8	2048
1-15/16	2049
2"	2050

THREAD	CODE
0-80	080
2-56	256

MATERIAL	CODE	RoHS
Brass	B	YES
Stainless Steel	SS	YES
Steel	S	YES

3/16 HEX FEMALE STANDOFFS



See page 10 for thread depth chart
See page 9 for finish codes
For non-standard parts contact Sales Office

LENGTH	PART NO.
3/32	2051A
1/8	2051
5/32	2051T
3/16	2052
7/32	2052T
1/4	2053
9/32	2053T
5/16	2054
11/32	2054T
3/8	2055
13/32	2055T
7/16	2056
15/32	2056T
1/2	2057
17/32	2057T
9/16	2058
19/32	2058T
5/8	2059
21/32	2059T
11/16	2060
23/32	2060T

LENGTH	PART NO.
3/4	2061
25/32	2061T
13/16	2062
27/32	2062T
7/8	2063
29/32	2063T
15/16	2064
31/32	2064T
1"	2065
1-1/16	2066
1-1/8	2067
1-3/16	2068
1-1/4	2069
1-5/16	2070
1-3/8	2071
1-7/16	2072
1-1/2	2073
1-9/16	2074
1-5/8	2075
1-11/16	2076
1-3/4	2077

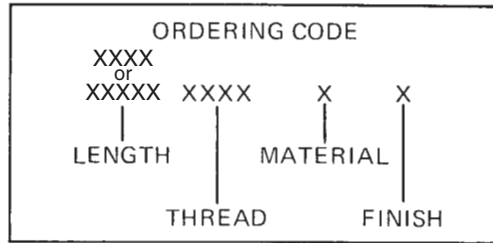
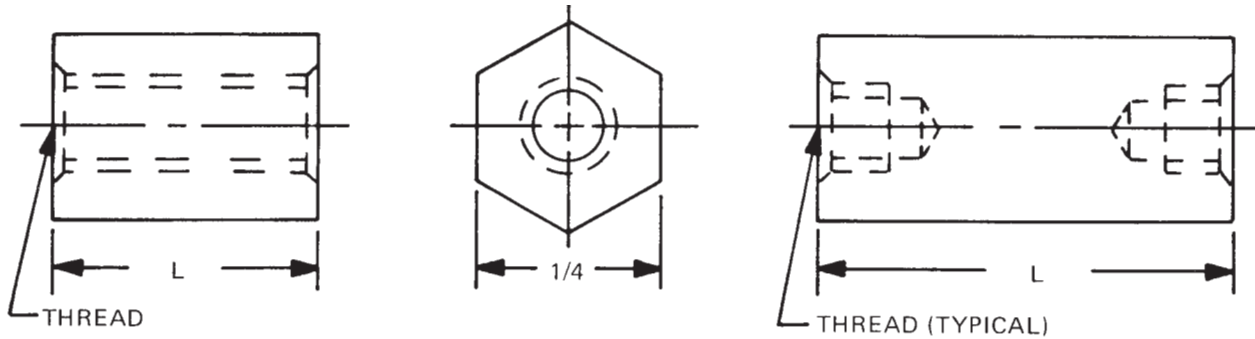
LENGTH	PART NO.
1-13/16	2078
1-7/8	2079
1-15/16	2080
2"	2081
2-1/16	2082
2-1/8	2083
2-3/16	2084
2-1/4	2085
2-5/16	2086
2-3/8	2087
2-7/16	2088
2-1/2	2089
2-9/16	2090
2-5/8	2091
2-11/16	2092
2-3/4	2093
2-13/16	2094
2-7/8	2095
2-15/16	2096
3"	2097

THREAD	CODE
2-56	256
4-40	440

MATERIAL	CODE	RoHS
Aluminum	AL	YES
Brass	B	YES
Stainless Steel	SS	YES
Steel	S	YES
Nylon	N	YES



1/4 HEX FEMALE STANDOFFS



See page 10 for thread depth chart
See page 9 for finish codes
For non-standard parts contact Sales Office

LENGTH	PART NO.
3/32	2098A
1/8	2098
5/32	2098T
3/16	2099
7/32	2099T
1/4	2100
9/32	2100T
5/16	2101
11/32	2101T
3/8	2102
13/32	2102T
7/16	2103
15/32	2103T
1/2	2104
17/32	2104T
9/16	2105
19/32	2105T
5/8	2106
21/32	2106T
11/16	2107
23/32	2107T
3/4	2108
25/32	2108T
13/16	2109
27/32	2109T
7/8	2110
29/32	2110T

LENGTH	PART NO.
15/16	2111
31/32	2111T
1"	2112
1-1/16	2113
1-1/8	2114
1-3/16	2115
1-1/4	2116
1-5/16	2117
1-3/8	2118
1-7/16	2119
1-1/2	2120
1-9/16	2121
1-5/8	2122
1-11/16	2123
1-3/4	2124
1-13/16	2125
1-7/8	2126
1-15/16	2127
2"	2128
2-1/8	2129
2-1/4	2130
2-3/8	2131
2-1/2	2132
2-5/8	2133
2-3/4	2134
2-7/8	2135
3"	2136

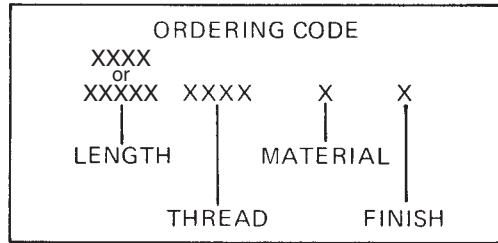
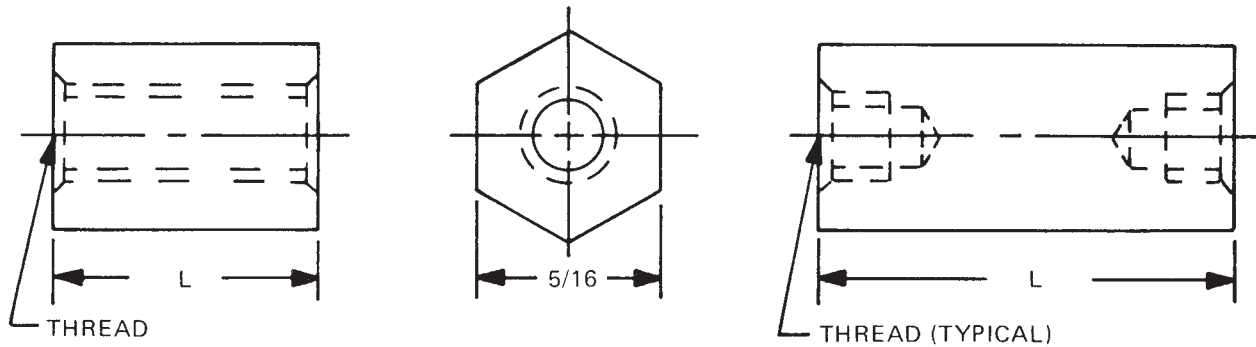
LENGTH	PART NO.
3-1/4	2137
3-1/2	2138
3-3/4	2139
4"	2140
4-1/4	2141
4-1/2	2142
4-3/4	2143
5"	2144
5-1/4	2145
5-1/2	2146
5-3/4	2147
6"	2148
6-1/4	2149
6-1/2	2150
6-3/4	2151
7"	2152
7-1/4	2153
7-1/2	2154
7-3/4	2155
8"	2156
8-1/4	2157
8-1/2	2158
8-3/4	2159
9"	2160
9-1/4	2161
9-1/2	2162
9-3/4	2163
10"	2164

THREAD	CODE
4-40	440
6-32	632
8-32	832
10-32	1032

MATERIAL	CODE	RoHS
Aluminum	AL	YES
Brass	B	YES
Stainless Steel	SS	YES
Steel	S	YES
Nylon	N	YES



5/16 HEX FEMALE STANDOFFS



See page 10 for thread depth chart
See page 9 for finish codes
For non-standard parts contact Sales Office

LENGTH	PART NO.
3/32	2165A
1/8	2165
5/32	2165T
3/16	2166
7/32	2166T
1/4	2167
9/32	2167T
5/16	2168
11/32	2168T
3/8	2169
13/32	2169T
7/16	2170
15/32	2170T
1/2	2171
17/32	2171T
9/16	2172
19/32	2172T
5/8	2173
21/32	2173T
11/16	2174
23/32	2174T
3/4	2175
25/32	2175T
13/16	2176
27/32	2176T
7/8	2177
29/32	2177T

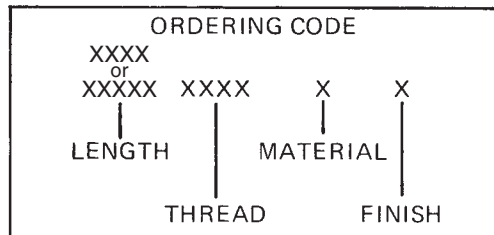
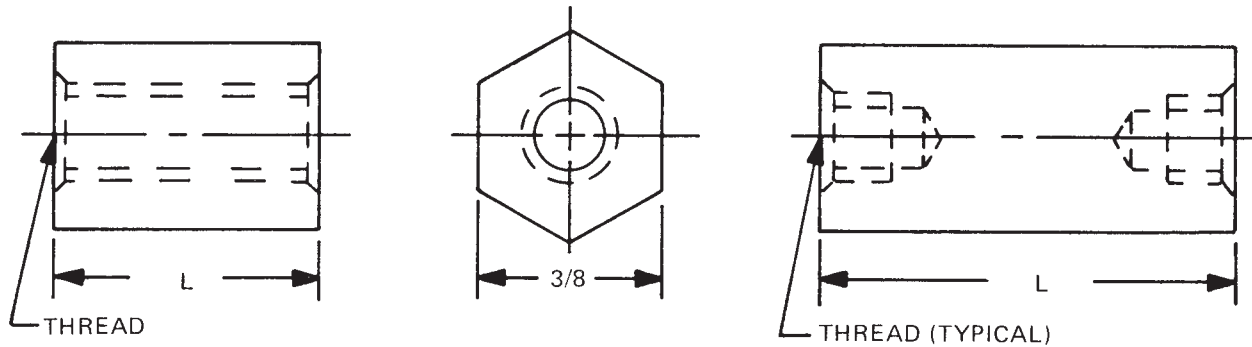
LENGTH	PART NO.
15/16	2178
31/32	2178T
1"	2179
1-1/16	2180
1-1/8	2181
1-3/16	2182
1-1/4	2183
1-5/16	2184
1-3/8	2185
1-7/16	2186
1-1/2	2187
1-9/16	2188
1-5/8	2189
1-11/16	2190
1-3/4	2191
1-13/16	2192
1-7/8	2193
1-15/16	2194
2"	2195
2-1/8	2196
2-1/4	2197
2-3/8	2198
2-1/2	2199
2-5/8	2200
2-3/4	2201
2-7/8	2202
3"	2203

LENGTH	PART NO.
3-1/4	2204
3-1/2	2205
3-3/4	2206
4"	2207
4-1/4	2208
4-1/2	2209
4-3/4	2210
5"	2211
5-1/4	2212
5-1/2	2213
5-3/4	2214
6"	2215
6-1/4	2216
6-1/2	2217
6-3/4	2218
7"	2219
7-1/4	2220
7-1/2	2221
7-3/4	2222
8"	2223
8-1/4	2224
8-1/2	2225
8-3/4	2226
9"	2227
9-1/4	2228
9-1/2	2229
9-3/4	2230
10"	2231

THREAD	CODE
4-40	440
6-32	632
8-32	832
10-32	1032

MATERIAL	CODE	RoHS
Aluminum	AL	YES
Brass	B	YES
Stainless Steel	SS	YES
Steel	S	YES
Nylon	N	YES

3/8 HEX FEMALE STANDOFFS



See page 10 for thread depth chart
See page 9 for finish codes
For non-standard parts contact Sales Office

LENGTH	PART NO.
3/32	2232A
1/8	2232
5/32	2232T
3/16	2233
7/32	2233T
1/4	2234
9/32	2234T
5/16	2235
11/32	2235T
3/8	2236
13/32	2236T
7/16	2237
15/32	2237T
1/2	2238
17/32	2238T
9/16	2239
19/32	2239T
5/8	2240
21/32	2240T
11/16	2241
23/32	2241T
3/4	2242
25/32	2242T
13/16	2243
27/32	2243T
7/8	2244
29/32	2244T

LENGTH	PART NO.
15/16	2245
31/32	2245T
1"	2246
1-1/16	2247
1-1/8	2248
1-3/16	2249
1-1/4	2250
1-5/16	2251
1-3/8	2252
1-7/16	2253
1-1/2	2254
1-9/16	2255
1-5/8	2256
1-11/16	2257
1-3/4	2258
1-13/16	2259
1-7/8	2260
1-15/16	2261
2"	2262
2-1/8	2263
2-1/4	2264
2-3/8	2265
2-1/2	2266
2-5/8	2267
2-3/4	2268
2-7/8	2269
3"	2270

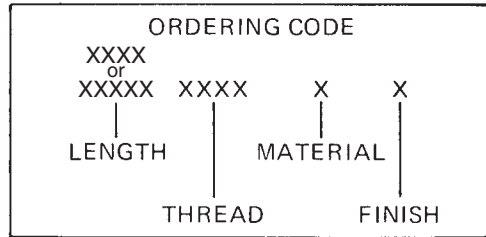
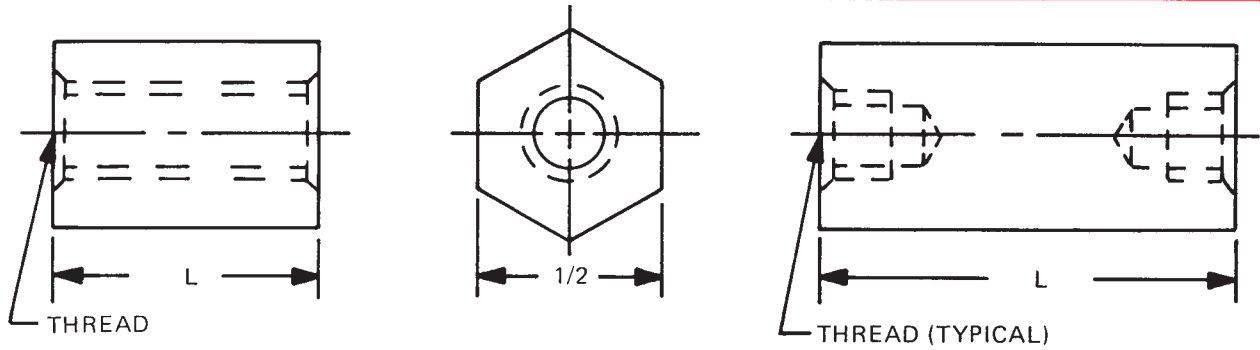
LENGTH	PART NO.
3-1/4	2271
3-1/2	2272
3-3/4	2273
4"	2274
4-1/4	2275
4-1/2	2276
4-3/4	2277
5"	2278
5-1/4	2279
5-1/2	2280
5-3/4	2281
6"	2282
6-1/4	2283
6-1/2	2284
6-3/4	2285
7"	2286
7-1/4	2287
7-1/2	2288
7-3/4	2289
8"	2290
8-1/4	2291
8-1/2	2292
8-3/4	2293
9"	2294
9-1/4	2295
9-1/2	2296
9-3/4	2297
10"	2298

THREAD	CODE
6-32	632
8-32	832
10-32	1032
12-24	1224
1/4-20	2520

MATERIAL	CODE	RoHS
Aluminum	AL	YES
Brass	B	YES
Stainless Steel	SS	YES
Steel	S	YES
Nylon	N	YES



1/2 HEX FEMALE STANDOFFS



See page 10 for thread depth chart
See page 9 for finish codes
For non-standard parts contact Sales Office

LENGTH	PART NO.
3/32	2299A
1/8	2299
5/32	2299T
3/16	2300
7/32	2300T
1/4	2301
9/32	2301T
5/16	2302
11/32	2302T
3/8	2303
13/32	2303T
7/16	2304
15/32	2304T
1/2	2305
17/32	2305T
9/16	2306
19/32	2306T
5/8	2307
21/32	2307T
11/16	2308
23/32	2308T
3/4	2309
25/32	2309T
13/16	2310
27/32	2310T
7/8	2311
29/32	2311T

LENGTH	PART NO.
15/16	2312
31/32	2312T
1"	2313
1-1/16	2314
1-1/8	2315
1-3/16	2316
1-1/4	2317
1-5/16	2318
1-3/8	2319
1-7/16	2320
1-1/2	2321
1-9/16	2322
1-5/8	2323
1-11/16	2324
1-3/4	2325
1-13/16	2326
1-7/8	2327
1-15/16	2328
2"	2329
2-1/8	2330
2-1/4	2331
2-3/8	2332
2-1/2	2333
2-5/8	2334
2-3/4	2335
2-7/8	2336
3"	2337

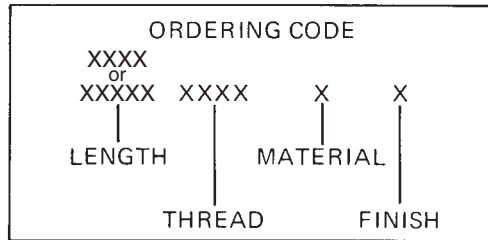
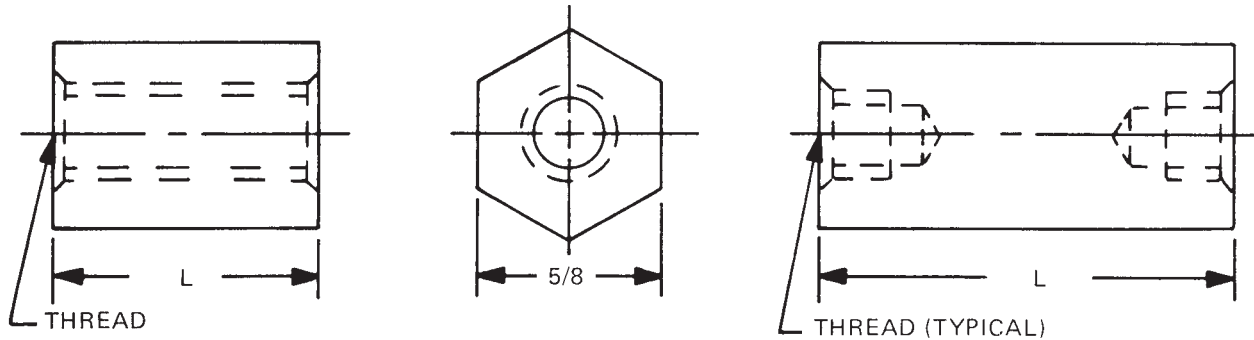
LENGTH	PART NO.
3-1/4	2338
3-1/2	2339
3-3/4	2340
4"	2341
4-1/4	2342
4-1/2	2343
4-3/4	2344
5"	2345
5-1/4	2346
5-1/2	2347
5-3/4	2348
6"	2349
6-1/4	2350
6-1/2	2351
6-3/4	2352
7"	2353
7-1/4	2354
7-1/2	2355
7-3/4	2356
8"	2357
8-1/4	2358
8-1/2	2359
8-3/4	2360
9"	2361
9-1/4	2362
9-1/2	2363
9-3/4	2364
10"	2365

THREAD	CODE
6-32	632
8-32	832
10-32	1032
12-24	1224
1/4-20	2520

MATERIAL	CODE	RoHS
Aluminum	AL	YES
Brass	B	YES
Stainless Steel	SS	YES
Steel	S	YES
Nylon	N	YES



5/8 HEX FEMALE STANDOFFS



See page 10 for thread depth chart
See page 9 for finish codes
For non-standard parts contact Sales Office

LENGTH	PART NO.
3/32	2366A
1/8	2366
5/32	2366T
3/16	2367
7/32	2367T
1/4	2368
9/32	2368T
5/16	2369
11/32	2369T
3/8	2370
13/32	2370T
7/16	2371
15/32	2371T
1/2	2372
17/32	2372T
9/16	2373
19/32	2373T
5/8	2374
21/32	2374T
11/16	2375
23/32	2375T
3/4	2376
25/32	2376T
13/16	2377
27/32	2377T
7/8	2378
29/32	2378T

LENGTH	PART NO.
15/16	2379
31/32	2379T
1"	2380
1-1/16	2381
1-1/8	2382
1-3/16	2383
1-1/4	2384
1-5/16	2385
1-3/8	2386
1-7/16	2387
1-1/2	2388
1-9/16	2389
1-5/8	2390
1-11/16	2391
1-3/4	2392
1-13/16	2393
1-7/8	2394
1-15/16	2395
2"	2396
2-1/8	2397
2-1/4	2398
2-3/8	2399
2-1/2	2400
2-5/8	2401
2-3/4	2402
2-7/8	2403
3"	2404

LENGTH	PART NO.
3-1/4	2405
3-1/2	2406
3-3/4	2407
4"	2408
4-1/4	2409
4-1/2	2410
4-3/4	2411
5"	2412
5-1/4	2413
5-1/2	2414
5-3/4	2415
6"	2416
6-1/4	2417
6-1/2	2418
6-3/4	2419
7"	2420
7-1/4	2421
7-1/2	2422
7-3/4	2423
8"	2424
8-1/4	2425
8-1/2	2426
8-3/4	2427
9"	2428
9-1/4	2429
9-1/2	2430
9-3/4	2431
10"	2432

THREAD	CODE
8-32	832
10-32	1032
12-24	1224
1/4-20	2520
5/16-18	3118
3/8-16	3716
7/16-14	4314

MATERIAL	CODE	RoHS
Aluminum	AL	YES
Brass	B	YES
Stainless Steel	SS	YES
Steel	S	YES
Nylon	N	YES



MATERIALS

MATERIAL ROD & BAR	ORDERING CODE	MATERIAL SPECIFICATIONS	RoHS COMPLIANT
Aluminum	AL	QQ-A-225/3D, QQ-A-225/6A, QQ-A-225/8B, QQ-A-200/9D	YES
Brass	B	ASTM-B-16	YES
Nylon	N	LP-410A, D 4066	YES
Phenolic – Paper	PH	MIL-P-79 Type PBE, MIL-I-24768/10	YES
Phenolic – Linen	PHL	MIL-P-79 Type FBE, MIL-I-24768/13	YES
Steel	S	ASTM-A108-07	YES
Stainless Steel	SS	ASTM-A-581, A-582	YES
Teflon	TE	ASTM-1710	YES
Delrin	D	ASTM-D-4181	YES

* Non RoHS Compliant Finish

FINISH CODES

* 1	Cadmium (Commercial) (Special Order Only)	25	Black Oxide, Brass MIL-F-495E
* 2	Cadmium QQ-P-416F-Class 2 Type-1 (Clear Chromate) (Special Order Only)	26	Black Oxide, Stainless Steel, Steel MIL-DTL-13924D, Class 1 and 4
* 3	Cadmium QQ-P-416F-Class 2 Type-2 (Yellow Chromate) (Special Order Only)	27	Electro Tin Solder (60/40) per M222-MIL-F-14072D
4	Chrome Over Nickel	28	Zinc Plate .0002 ASTM-B-633 (Yellow Chromate)
5	Nickel QQ-N-290 Class 1 Grade G	29	Brushed Finish – Handles Only
* 6	Iridite #14 (Gold) MIL-DTL-5541F	30	Brushed Finish – Clear Lacquer – Handles Only
7	Iridite (Clear) MIL-DTL-5541F	31	Brushed Satin – Handles Only
* 9	Alodine 1200	32	Brushed Satin – Clear Anodize – Handles Only
10	Chrome QQ-C-320B Class 1 Type I (Bright Finish)	33	Brushed Satin – Black Anodize – Handles Only
11	Chrome QQ-C-320B Class 1 Type II (Satin Finish)	34	Satin Finish – Clear Anodize
12	Zinc .0002 ASTM-B-633 (Clear Chromate)	35	Satin Finish – Black Anodize
13	Bright Dip – Brass	36	Anodize MIL-A-8625F Black High Luster
14	Bright Tin ASTM B545 over Copper Flash Mil-C-14550	37	Ductile Nickel
15	Hot Tin Dip MIL-T-10727C Type II	38	Polished Nickel – Handles Only
16	Electro Tin ASTM B545 Class A, B or C	39	Caustic Etch and Lacquer
19	Caustic Etch	40	Semi-Frost Anodize (Clear)
20	Passivate MIL-F-14072E	41	Semi-Frost Anodize (Black)
21	Anodize MIL-A-8625F – Type II Class 2 (Sulfuric) Chemical Seal (Dark Grey)	42	Black Zinc
22	Anodize MIL-A-8625F – Type II Class 1 (Sulfuric) Hot Water Seal (Clear)	43	Blue Zinc
23	Anodize MIL-A-8625F – Type II Class 2 (Sulfuric) Chemical Seal (Yellow Green)	44	Electro Tin with Nickel Undercoat Per Mil-T-10727C
24	Anodize MIL-A-8625F – Type II Class 2 (Sulfuric) Chemical Seal (Black)	45	Passivate QQ-P-35C Type VI
		46	Passivate ASTM A 967 Nitric 1
		47	Passivate ASTM A 380-96
		48	Passivate AMS 2700 Type 2

NOTES

Responsibility ends with customer inspection or 10 days after customer receives parts. No returns will be accepted without prior approval from factory in writing.

All parts are stocked in plain finish. Parts will be plated to customer specification.

The items in this catalog are designed and manufactured to be functional. Engineering evaluation and quality assurance evaluations should be accomplished with functionality as a prime criteria.

RAF reserves the right to change any specifications, tolerances and plating types, for any products listed in this REFERENCE MANUAL without prior notice, provided the function of the item is not changed.

All custom (non-catalog) items are subject to an over shipment or under shipment of up to 10% of the order quantity. The price quotation from RAF will clearly identify these items.



DEPTHS OF THREADS

THREAD	TAPPED THRU		BLIND TAP DEPTH
	ALUMINUM, BRASS STEEL, NYLON	STAINLESS STEEL	ALUMINUM, BRASS ST. ST., STEEL, NYLON
0-80	3/8	1/4	3/16
1-72	3/8	1/4	3/16
2-56	3/4	5/8	3/16
3-48	3/4	5/8	3/16
3-56	3/4	5/8	3/16
4-40	1	3/4	1/4
4-48	1	3/4	1/4
5-40	1	3/4	5/16
6-32	1	1	3/8
6-40	1	1	3/8
8-32	1	1	7/16
10-24	1-1/8	1	1/2
10-32	1-1/8	1	1/2
12-24	1-1/8	1	1/2
1/4-20	1-1/4	1-1/4	5/8
1/4-28	1-1/4	1-1/4	5/8
5/16-18	1-1/4	1-1/4	5/8
5/16-24	1-1/4	1-1/4	5/8
3/8-16	1-1/4	1-1/4	5/8
3/8-24	1-1/4	1-1/4	5/8
7/16-14	1-1/4	1-1/4	5/8
7/16-20	1-1/4	1-1/4	5/8
1/2-13	1-1/4	1-1/4	5/8
1/2-20	1-1/4	1-1/4	5/8

PERCENTAGE OF THREAD FOR TAPPED HOLES

TAP SIZE	FORM TAP	CUT TAP	
2	55	65	THREADS ARE SUPPLIED CUT OR ROLLED AT OUR OPTION UNLESS SPECIFICALLY NOTED ON ORDER. THREADS ARE TO COMMERCIAL 2A AND 2B STANDARDS PER HANDBOOK H-28 (PART I) SCREW THREAD STANDARDS (FEDERAL)
3	55	65	
4	55	65	
5	55	65	
6	55	65	
8	55	65	
10	55	65	
12	55	65	
1/4	55	65	
5/16	60	70	
3/8	60	70	
7/16	65	70	
1/2	65	70	