

UNIFIED EXTERNAL SCREW THREADS

Classes 2A & 3A UNRC. UNRF.					
Nominal Size & TPI	Class 2A		Class 3A		
	Major Diameter	Pitch Diameter	Major Diameter	Pitch Diameter	Blank Size
4-40	.1061	.0925	.1069	.0939	.0938
	.1112	.0950	.1120	.0958	.0943
4-48	.1068	.0954	.1075	.0967	.0968
	.1113	.0978	.1120	.0985	.0971
5-40	.1191	.1054	.1199	.1060	.1067
	.1242	.1080	.1250	.1088	.1072
5-44	.1195	.1070	.1202	.1083	.1083
	.1243	.1095	.1250	.1102	.1088
6-32	.1312	.1141	.1320	.1156	.1155
	.1372	.1169	.1380	.1177	.1161
6-40	.1321	.1184	.1329	.1198	.1197
	.1372	.1210	.1380	.1218	.1202
8-32	.1571	.1399	.1580	.1415	.1414
	.1631	.1428	.1640	.1437	.1419
8-36	.1577	.1424	.1585	.1439	.1438
	.1632	.1452	.1640	.1460	.1444
10-24	.1818	.1586	.1828	.1604	.1603
	.1890	.1619	.1900	.1629	.1609
10-32	.1831	.1658	.1840	.1674	.1673
	.1891	.1688	.1900	.1697	.1679
12-24	.2078	.1845	.2088	.1863	.1862
	.2150	.1879	.2160	.1889	.1867
12-28	.2085	.1888	.2095	.1904	.1903
	.2150	.1918	.2160	.1928	.1908
1/4-20	.2408	.2127	.2419	.2147	.2146
	.2489	.2164	.2500	.2175	.2153
1/4-28	.2425	.2225	.2435	.2243	.2242
	.2490	.2258	.2500	.2268	.2248
5/16-18	.3026	.2712	.3038	.2734	.2732
	.3113	.2752	.3125	.2764	.2740
5/16-24	.3042	.2806	.3053	.2827	.2825
	.3114	.2843	.3125	.2854	.2832
3/8-16	.3643	.3287	.3656	.3311	.3309
	.3737	.3331	.3750	.3344	.3318
3/8-24	.3667	.3430	.3678	.3450	.3449
	.3739	.3468	.3750	.3479	.3457
7/16-14	.4258	.3850	.4272	.3876	.3874
	.4361	.3897	.4375	.3911	.3883
7/16-20	.4281	.3995	.4294	.4019	.4016
	.4362	.4037	.4375	.4050	.4024
1/2-13	.4876	.4435	.4891	.4463	.4480
	.4985	.4485	.5000	.4500	.4470
1/2-20	.4906	.4619	.4919	.4643	.4641
	.4987	.4662	.5000	.4675	.4649
9/16-12	.5016	.5495	.5045	.5511	.5050
	.5068	.5609	.5084	.5625	.5070
9/16-18	.5205	.5524	.523	.5538	.5170
	.5250	.5611	.5264	.5625	.5190
5/8-11	.5589	.6113	.5619	.6129	.5630
	.5644	.6234	.5660	.6250	.5650

5/8-18	.5828 .5875	.6149 .6236	.5854 .5889	.6163 .6250	.5840 .5860
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ISO Metric Threads — CLASS 6g

Metric Size	Inch Measurement			Millimeters		
Nominal Size	Major Diameter	Pitch Diameter	Blank Size	Major Diameter	Pitch Diameter	Blank Size
M3 x .5	.1173	.1045	.1037	2.980	2.655	2.635
	.1131	.1016	.1030	2.874	2.580	2.615
M3.5 x .6	.1370	.1216	.1205	3.479	3.089	3.060
	.1320	.1183	.1195	3.354	3.004	3.035
M4 x .7	.1566	.1387	.1376	3.978	3.523	3.495
	.1511	.1352	.1364	3.938	3.438	3.465
M5 x .8	.1959	.1754	.1742	4.976	4.456	4.425
	.1900	.1717	.1730	4.826	4.361	4.395
M6 x 1.0	.2352	.2096	.2087	5.974	5.324	5.300
	.2281	.2052	.2071	5.794	5.212	5.260
M7 x 1.0	.2746	.2490	.2480	6.974	6.324	6.300
	.2675	.2446	.2465	6.794	6.212	6.260
M8 x 1.25	.3139	.2819	.2807	7.972	7.160	7.130
	.3055	.2772	.2791	7.760	7.042	7.090
M10 x 1.25	.3926	.3606	.3594	9.972	9.160	9.130
	.3856	.3560	.3579	9.794	9.042	9.090
M10 x 1.5	.3924	.3541	.3528	9.968	8.994	8.960
	.3831	.3489	.3512	9.732	8.862	8.920
M11 x 1.5	.4318	.3935	.3921	10.968	9.994	9.960
	.4225	.3883	.3902	10.732	9.862	9.910
M12 x 1.25	.4713	.4394	.4382	11.972	11.160	11.130
	.4630	.4342	.4366	11.760	11.028	11.090
M12 x 1.75	.4711	.4263	.4252	11.966	10.829	10.800
	.4607	.4204	.4232	11.701	10.679	10.750

ISO Metric Threads — CLASS 4h

Metric Size	Inch Measurement			Millimeters		
Nominal Size	Major Diameter	Pitch Diameter	Blank Size	Major Diameter	Pitch Diameter	Blank Size
M3 x .5	.1181	.1053	.1051	3.000	2.675	2.669
	.1155	.1034	.1046	2.933	2.627	2.656
M3.5 x .6	.1378	.1216	.1212	3.500	3.088	3.078
	.1321	.1183	.1205	3.355	3.004	3.060
M4 x .7	.1575	.1396	.1394	4.000	3.545	3.540
	.1539	.1374	.1387	3.910	3.489	3.522
M5 x .8	.1968	.1751	.1748	5.000	4.480	4.439
	.1931	.1740	.1741	4.905	4.420	4.422
M6 x 1.0	.2362	.2106	.2100	6.000	5.350	5.334
	.2318	.2078	.2093	5.888	5.279	5.316
M7 x 1.0	.2756	.2500	.2494	7.000	6.350	6.334
	.2712	.2472	.2487	6.888	6.279	6.316

M8 x 1.25	.3150 .3098	.2830 .2800	.2826 .2819	8.000 7.868	7.188 7.113	7.178 7.160
M10 x 1.0	.3937 .3893	.3681 .3653	.3675 .3668	10.000 9.888	9.350 9.279	9.334 8.554
M10 x 1.25	.3937 .3885	.3617 .3588	.3610 .3603	10.000 9.868	9.188 9.113	9.169 9.151
M10 x 1.5	.3937 .3878	.3553 .3520	.3551 .3544	10.000 9.850	9.026 8.941	9.020 9.001
M12 x 1.25	.4724 .4672	.4405 .4371	.4397 .4390	12.000 11.868	11.188 11.103	11.168 11.150
M12 x 1.5	.4724 .4665	.4341 .4305	.4335 .4328	12.000 11.850	11.026 10.936	11.010 10.993
M12 x 1.75	.4724 .4657	.4277 .4239	.4273 .4265	12.000 11.830	10.863 10.768	10.853 10.833