

Table C-1 Inch Translation for External Thread — Limiting Dimensions M Profile (Cont'd)

Basic Thread Designation	Tolerance Class	Allowance, e_s [Note (1)]	Major Diameter, d [Note (2)]		Pitch Diameter, d_2 and Functional Diameter [Notes (2), (3), and (4)]			Max. Minor Diameter d_1 [Note (2)]	Min. Minor Diam. (Rounded Form), d_3 [Note (5)] (For Reference)	Nominal Pitch, P
			Max.	Min.	Max.	Min.	Tol.			
M10 × 1.5	4g6g	0.00126	0.39244	0.38315	0.35409	0.35075	0.00334	0.32850	0.31437	0.05906
M10 × 1.25	6g	0.00110	0.39260	0.38425	0.36063	0.35598	0.00465	0.33933	0.32567	0.04921
M10 × 1.25	6h	0.00000	0.39370	0.38535	0.36173	0.35709	0.00465	0.34043	0.32677	0.04921
M10 × 1.25	4g6g	0.00110	0.39260	0.38425	0.36063	0.35768	0.00295	0.33933	0.32736	0.04921
M10 × 1	6g	0.00102	0.39268	0.38559	0.36709	0.36268	0.00441	0.35004	0.33843	0.03937
M10 × 1	6h	0.00000	0.39370	0.38661	0.36811	0.36370	0.00441	0.35106	0.33945	0.03937
M10 × 1	4g6g	0.00102	0.39268	0.38559	0.36709	0.36429	0.00280	0.35004	0.34004	0.03937
M10 × 0.75	6g	0.00087	0.39283	0.38732	0.37366	0.36972	0.00394	0.36087	0.35154	0.02953
M10 × 0.75	6h	0.00000	0.39370	0.38819	0.37453	0.37059	0.00394	0.36173	0.35240	0.02953
M10 × 0.75	4g6g	0.00087	0.39283	0.38732	0.37366	0.37118	0.00248	0.36087	0.35299	0.02953
M12 × 1.75	6g	0.00134	0.47110	0.46067	0.42634	0.42023	0.00591	0.39650	0.37799	0.06890
M12 × 1.75	6h	0.00000	0.47244	0.46201	0.42768	0.42177	0.00591	0.39783	0.37933	0.06890
M12 × 1.75	4g6g	0.00134	0.47110	0.46067	0.42634	0.42260	0.00374	0.39650	0.38016	0.06890
M12 × 1.5	6g	0.00126	0.47118	0.46189	0.43283	0.42732	0.00551	0.40724	0.39094	0.05906
M12 × 1.5	6h	0.00000	0.47244	0.46315	0.43409	0.42858	0.00551	0.40850	0.39220	0.05906
M12 × 1.5	4g6g	0.00126	0.47118	0.46189	0.43283	0.42929	0.00354	0.40724	0.39291	0.05906
M12 × 1.25	6g	0.00110	0.47134	0.46299	0.43937	0.43417	0.00520	0.41807	0.40386	0.04921
M12 × 1.25	6h	0.00000	0.47244	0.46409	0.44047	0.43528	0.00520	0.41917	0.40496	0.04921
M12 × 1.25	4g6g	0.00110	0.47134	0.46299	0.43937	0.43602	0.00335	0.41807	0.40571	0.04921
M12 × 1	6g	0.00102	0.47142	0.46433	0.44583	0.44118	0.00465	0.42878	0.41693	0.03937
M12 × 1	6h	0.00000	0.47244	0.46535	0.44685	0.44220	0.00465	0.42980	0.41795	0.03937
M12 × 1	4g6g	0.00102	0.47142	0.46433	0.44583	0.44287	0.00296	0.42878	0.41862	0.03937
M14 × 2	6g	0.00150	0.54969	0.53866	0.49854	0.49224	0.00630	0.46445	0.44374	0.07874
M14 × 2	6h	0.00000	0.55118	0.54016	0.50004	0.49374	0.00630	0.46594	0.44524	0.07874
M14 × 2	4g6g	0.00150	0.54969	0.53866	0.49854	0.49461	0.00393	0.46445	0.44610	0.07874
M14 × 1.5	6g	0.00126	0.54992	0.54063	0.51157	0.50606	0.00551	0.48598	0.46969	0.05906
M14 × 1.5	6h	0.00000	0.55118	0.54189	0.51283	0.50732	0.00551	0.48724	0.47094	0.05906
M14 × 1.5	4g6g	0.00126	0.54992	0.54063	0.51157	0.50803	0.00354	0.48598	0.47165	0.05906
M15 × 1	6g	0.00102	0.58953	0.58244	0.56394	0.55929	0.00465	0.54689	0.53504	0.03937
M15 × 1	6h	0.00000	0.59055	0.58346	0.56496	0.56031	0.00465	0.54791	0.53606	0.03937
M15 × 1	4g6g	0.00102	0.58953	0.58244	0.56394	0.56098	0.00296	0.54689	0.53673	0.03937
M16 × 2	6g	0.00150	0.62843	0.61740	0.57728	0.57098	0.00630	0.54319	0.52248	0.07874
M16 × 2	6h	0.00000	0.62992	0.61890	0.57878	0.57248	0.00630	0.54469	0.52398	0.07874
M16 × 2	4g6g	0.00150	0.62843	0.61740	0.57728	0.57335	0.00393	0.54319	0.52484	0.07874

Table C-1 Inch Translation for External Thread — Limiting Dimensions M Profile (Cont'd)

Basic Thread Designation	Tolerance Class	Allowance, e_s [Note (1)]	Major Diameter, d [Note (2)]		Pitch Diameter, d_2 and Functional Diameter [Notes (2), (3), and (4)]		Max. Minor Diameter (Flat Form), d_1 [Note (2)]	Min. Minor Diam. (Rounded Form), d_3 [Note (5)] (For Reference)	Nominal Pitch, P
			Max.	Min.	Max.	Min.			
M16 × 1.5	6g	0.00126	0.62866	0.61937	0.59031	0.58480	0.00551	0.56472	0.05906
M16 × 1.5	6h	0.00000	0.62992	0.62063	0.59157	0.58606	0.00551	0.56598	0.05906
M16 × 1.5	4g6g	0.00126	0.62866	0.61937	0.59031	0.58677	0.00354	0.56472	0.05906
M17 × 1	6g	0.00102	0.66827	0.66118	0.64268	0.63803	0.00465	0.62563	0.03937
M17 × 1	6h	0.00000	0.66929	0.66220	0.64370	0.63906	0.00465	0.62665	0.03937
M17 × 1	4g6g	0.00102	0.66827	0.66118	0.64268	0.63972	0.00296	0.62563	0.03937
M18 × 1.5	6g	0.00126	0.70740	0.69811	0.66906	0.66354	0.00551	0.64346	0.05906
M18 × 1.5	6h	0.00000	0.70866	0.69937	0.67031	0.66480	0.00551	0.64472	0.05906
M18 × 1.5	4g6g	0.00126	0.70740	0.69811	0.66906	0.66551	0.00355	0.64346	0.05906
M20 × 2.5	6g	0.00165	0.78575	0.77256	0.72181	0.71512	0.00669	0.67917	0.09843
M20 × 2.5	6h	0.00000	0.78740	0.77421	0.72346	0.71677	0.00669	0.68083	0.09843
M20 × 2.5	4g6g	0.00165	0.78575	0.77256	0.72181	0.71764	0.00417	0.67917	0.09843
M20 × 1.5	6g	0.00126	0.78614	0.77685	0.74780	0.74228	0.00551	0.72220	0.05906
M20 × 1.5	6h	0.00000	0.78740	0.77811	0.74906	0.74354	0.00551	0.72346	0.05906
M20 × 1.5	4g6g	0.00126	0.78614	0.77685	0.74780	0.74425	0.00355	0.72220	0.05906
M20 × 1	6g	0.00102	0.78638	0.77929	0.76079	0.75614	0.00465	0.74374	0.03937
M20 × 1	6h	0.00000	0.78740	0.78031	0.76181	0.75717	0.00465	0.74476	0.03937
M20 × 1	4g6g	0.00102	0.78638	0.77929	0.76079	0.75783	0.00296	0.74374	0.03937
M22 × 2.5	6g	0.00165	0.86449	0.85130	0.80055	0.79386	0.00669	0.75791	0.09843
M22 × 2.5	6h	0.00000	0.86614	0.85295	0.80220	0.79551	0.00669	0.75957	0.09843
M22 × 1.5	6g	0.00126	0.86488	0.85559	0.82654	0.82102	0.00551	0.80094	0.05906
M22 × 1.5	6h	0.00000	0.86614	0.85685	0.82780	0.82228	0.00551	0.80220	0.05906
M22 × 1.5	4g6g	0.00126	0.86488	0.85559	0.82654	0.82299	0.00355	0.80094	0.05906
M24 × 3	6g	0.00189	0.94299	0.92823	0.86626	0.85839	0.00787	0.81512	0.11811
M24 × 3	6h	0.00000	0.94488	0.93012	0.86815	0.86028	0.00787	0.81701	0.11811
M24 × 3	4g6g	0.00189	0.94299	0.92823	0.86626	0.86134	0.00492	0.81512	0.11811
M24 × 2	6g	0.00150	0.94339	0.93236	0.89224	0.88555	0.00669	0.85815	0.07874
M24 × 2	6h	0.00000	0.94488	0.93386	0.89374	0.88705	0.00669	0.85965	0.07874
M24 × 2	4g6g	0.00150	0.94339	0.93236	0.89224	0.88807	0.00417	0.85815	0.07874
M25 × 1.5	6g	0.00126	0.98299	0.97370	0.94465	0.93874	0.00591	0.91906	0.05906
M25 × 1.5	6h	0.00000	0.98425	0.97496	0.94591	0.94000	0.00591	0.92031	0.05906
M25 × 1.5	4g6g	0.00126	0.98299	0.97370	0.94465	0.94091	0.00374	0.91906	0.05906

Table C-1 Inch Translation for External Thread — Limiting Dimensions M Profile (Cont'd)

Basic Thread Designation	Tolerance Class	Allowance, e_s [Note (1)]	Major Diameter, d [Note (2)]		Pitch Diameter, d_2 and Functional Diameter [Notes (2), (3), and (4)]		Max. Minor Diameter (Flat Form), d_1 [Note (2)]	Min. Minor Diam. (Rounded Form), d_3 [Note (5)] (For Reference)	Nominal Pitch, P
			Max.	Min.	Max.	Min.			
M27 × 3	6g	0.00189	1.06110	1.04634	0.98437	0.97650	0.93323	0.90374	0.11811
M27 × 3	6h	0.00000	1.06299	1.04823	0.98626	0.97839	0.93512	0.90563	0.11811
M27 × 2	6g	0.00150	1.06150	1.05047	1.01035	1.00366	0.97626	0.95516	0.07874
M27 × 2	6h	0.00000	1.06299	1.05197	1.01185	1.00516	0.97776	0.95665	0.07874
M27 × 2	4g6g	0.00150	1.06150	1.05047	1.01035	1.00618	0.97626	0.95768	0.07874
M30 × 3.5	6g	0.00209	1.17902	1.16228	1.08953	1.08118	1.02984	0.99630	0.13780
M30 × 3.5	6h	0.00000	1.18110	1.16437	1.09161	1.08327	1.03193	0.99839	0.13780
M30 × 3.5	4g6g	0.00209	1.17902	1.16228	1.08953	1.08433	1.02984	0.99945	0.13780
M30 × 2	6g	0.00150	1.17961	1.16858	1.12846	1.12177	1.09437	1.07327	0.07874
M30 × 2	6h	0.00000	1.18110	1.17008	1.12996	1.12327	1.09587	1.07476	0.07874
M30 × 2	4g6g	0.00150	1.17961	1.16858	1.12846	1.12429	1.09437	1.07579	0.07874
M30 × 1.5	6g	0.00126	1.17984	1.17055	1.14150	1.13559	1.11591	1.09921	0.05906
M30 × 1.5	6h	0.00000	1.18110	1.17181	1.14276	1.13685	1.11717	1.10047	0.05906
M30 × 1.5	4g6g	0.00126	1.17984	1.17055	1.14150	1.13776	1.11591	1.10138	0.05906
M33 × 2	6g	0.00150	1.29772	1.28669	1.24657	1.23988	1.21248	1.19138	0.07874
M33 × 2	6h	0.00000	1.29921	1.28819	1.24807	1.24138	1.21398	1.19287	0.07874
M33 × 2	4g6g	0.00150	1.29772	1.28669	1.24657	1.24240	1.21248	1.19390	0.07874
M35 × 1.5	6g	0.00126	1.37669	1.36740	1.33835	1.33244	1.31276	1.29606	0.05906
M35 × 1.5	6h	0.00000	1.37795	1.36866	1.33961	1.33370	1.31402	1.29732	0.05906
M36 × 4	6g	0.00236	1.41496	1.39626	1.31268	1.30386	1.24449	1.20685	0.15748
M36 × 4	6h	0.00000	1.41732	1.39862	1.31504	1.30622	1.24685	1.20921	0.15748
M36 × 4	4g6g	0.00236	1.41496	1.39626	1.31268	1.30717	1.24449	1.21016	0.15748
M36 × 2	6g	0.00150	1.41583	1.40480	1.36469	1.35799	1.33059	1.30949	0.07874
M36 × 2	6h	0.00000	1.41732	1.40630	1.36618	1.35949	1.33209	1.31098	0.07874
M36 × 2	4g6g	0.00150	1.41583	1.40480	1.36469	1.36051	1.33059	1.31201	0.07874
M39 × 2	6g	0.00150	1.53394	1.52291	1.48280	1.47610	1.44870	1.42760	0.07874
M39 × 2	6h	0.00000	1.53543	1.52441	1.48429	1.47760	1.45020	1.42909	0.07874
M39 × 2	4g6g	0.00150	1.53394	1.52291	1.48280	1.47862	1.44870	1.43012	0.07874
M40 × 1.5	6g	0.00126	1.57354	1.56425	1.53520	1.52929	1.50961	1.49291	0.05906
M40 × 1.5	6h	0.00000	1.57480	1.56551	1.53646	1.53055	1.51087	1.49417	0.05906
M40 × 1.5	4g6g	0.00126	1.57354	1.56425	1.53520	1.53146	1.50961	1.49508	0.05906
M42 × 4.5	6g	0.00248	1.65106	1.63138	1.53598	1.52669	1.45925	1.41756	0.17717
M42 × 4.5	6h	0.00000	1.65354	1.63386	1.53846	1.52917	1.46173	1.42004	0.17717

Table C-1 Inch Translation for External Thread — Limiting Dimensions M Profile (Cont'd)

Basic Thread Designation	Tolerance Class	Allowance, e_s [Note (1)]	Major Diameter, d [Note (2)]		Pitch Diameter, d_2 and Functional Diameter [Notes (2), (3), and (4)]		Max. Minor Diameter (Flat Form), d_1 [Note (2)]	Min. Minor Diam. (Rounded Form), d_3 [Note (5)] (For Reference)	Nominal Pitch, P
			Max.	Min.	Max.	Min.			
M42 × 4.5	4g6g	0.00248	1.65106	1.63138	1.53598	1.53008	1.45925	1.42094	0.17717
M42 × 2	6g	0.00150	1.65205	1.64102	1.60091	1.59421	1.56681	1.54571	0.07874
M42 × 2	6h	0.00000	1.65354	1.64252	1.60240	1.59571	1.56831	1.54720	0.07874
M42 × 2	4g6g	0.00150	1.65205	1.64102	1.60091	1.59673	1.56681	1.54823	0.07874
M45 × 1.5	6g	0.00126	1.77039	1.76110	1.73205	1.72614	1.70646	1.68976	0.05906
M45 × 1.5	6h	0.00000	1.77165	1.76236	1.73331	1.72740	1.70772	1.69102	0.05906
M45 × 1.5	4g6g	0.00126	1.77039	1.76110	1.73205	1.72831	1.70646	1.69193	0.05906
M48 × 5	6g	0.00280	1.88697	1.86610	1.75909	1.74925	1.67386	1.62799	0.19685
M48 × 5	6h	0.00000	1.88976	1.86890	1.76189	1.75205	1.67665	1.63079	0.19685
M48 × 5	4g6g	0.00280	1.88697	1.86610	1.75909	1.75280	1.67386	1.63154	0.19685
M48 × 2	6g	0.00150	1.88827	1.87724	1.83713	1.83004	1.80303	1.78154	0.07874
M48 × 2	6h	0.00000	1.88976	1.87874	1.83862	1.83154	1.80453	1.78303	0.07874
M48 × 2	4g6g	0.00150	1.88827	1.87724	1.83713	1.83272	1.80303	1.78421	0.07874
M50 × 1.5	6g	0.00126	1.96724	1.95795	1.92890	1.92260	1.90331	1.88622	0.05906
M50 × 1.5	6h	0.00000	1.96850	1.95921	1.93016	1.92386	1.90457	1.88748	0.05906
M50 × 1.5	4g6g	0.00126	1.96724	1.95795	1.92890	1.92496	1.90331	1.88858	0.05906
M55 × 1.5	6g	0.00126	2.16409	2.15480	2.12575	2.11945	2.10016	2.08307	0.05906
M55 × 1.5	6h	0.00000	2.16535	2.15606	2.12701	2.12071	2.10142	2.08433	0.05906
M55 × 1.5	4g6g	0.00126	2.16409	2.15480	2.12575	2.12181	2.10016	2.08543	0.05906
M56 × 5.5	6g	0.00295	2.20177	2.17972	2.06114	2.05071	1.96736	1.91732	0.21654
M56 × 5.5	6h	0.00000	2.20472	2.18268	2.06409	2.05366	1.97031	1.92028	0.21654
M56 × 5.5	4g6g	0.00295	2.20177	2.17972	2.06114	2.05445	1.96736	1.92106	0.21654
M56 × 2	6g	0.00150	2.20323	2.19220	2.15209	2.14500	2.11799	2.09650	0.07874
M56 × 2	6h	0.00000	2.20472	2.19370	2.15358	2.14650	2.11949	2.09799	0.07874
M56 × 2	4g6g	0.00150	2.20323	2.19220	2.15209	2.14768	2.11799	2.09917	0.07874
M60 × 1.5	6g	0.00126	2.36094	2.35165	2.32260	2.31630	2.29701	2.27992	0.05906
M60 × 1.5	6h	0.00000	2.36220	2.35291	2.32386	2.31756	2.29827	2.28118	0.05906
M60 × 1.5	4g6g	0.00126	2.36094	2.35165	2.32260	2.31866	2.29701	2.28228	0.05906
M64 × 6	6g	0.00315	2.51654	2.49291	2.36311	2.35209	2.26083	2.20657	0.23622
M64 × 6	6h	0.00000	2.51969	2.49606	2.36626	2.35524	2.26398	2.20972	0.23622
M64 × 6	4g6g	0.00315	2.51654	2.49291	2.36311	2.35602	2.26083	2.21051	0.23622

Table C-1 Inch Translation for External Thread — Limiting Dimensions M Profile (Cont'd)

Basic Thread Designation	Tolerance Class	Allowance, e_s [Note (1)]	Major Diameter, d [Note (2)]		Pitch Diam., d_2 and Functional Diameter [Notes (2), (3), and (4)]		Max. Minor Diameter (Flat Form), d_1 [Note (2)]	Min. Minor Diam. (Rounded Form), d_3 [Note (5)], (For Reference)	Nominal Pitch, P
			Max.	Min.	Max.	Min.			
M64 × 2	6g	0.00150	2.51819	2.50717	2.46705	2.45996	2.43295	2.41146	0.07874
M64 × 2	6h	0.00000	2.51969	2.50866	2.46854	2.46146	2.43445	2.41295	0.07874
M64 × 2	4g6g	0.00150	2.51819	2.50717	2.46705	2.46264	2.43295	2.41413	0.07874
M65 × 1.5	6g	0.00126	2.55780	2.54850	2.51945	2.51315	2.49386	2.47677	0.05906
M65 × 1.5	6h	0.00000	2.55906	2.54976	2.52071	2.51441	2.49512	2.47803	0.05906
M65 × 1.5	4g6g	0.00126	2.55780	2.54850	2.51945	2.51551	2.49386	2.47913	0.05906
M70 × 1.5	6g	0.00126	2.75465	2.74535	2.71630	2.71000	2.69071	2.67362	0.05906
M70 × 1.5	6h	0.00000	2.75591	2.74661	2.71756	2.71126	2.69197	2.67488	0.05906
M70 × 1.5	4g6g	0.00126	2.75465	2.74535	2.71630	2.71236	2.69071	2.67598	0.05906
M72 × 6	6g	0.00315	2.83150	2.80787	2.67807	2.66705	2.57579	2.52154	0.23622
M72 × 6	6h	0.00000	2.83465	2.81102	2.68122	2.67020	2.57894	2.52469	0.23622
M72 × 6	4g6g	0.00315	2.83150	2.80787	2.67807	2.67098	2.57579	2.52547	0.23622
M72 × 2	6g	0.00150	2.83315	2.82213	2.78201	2.77492	2.74791	2.72642	0.07874
M72 × 2	6h	0.00000	2.83465	2.82362	2.78350	2.77642	2.74941	2.72791	0.07874
M72 × 2	4g6g	0.00150	2.83315	2.82213	2.78201	2.77760	2.74791	2.72909	0.07874
M75 × 1.5	6g	0.00126	2.95150	2.94220	2.91315	2.90685	2.88756	2.87047	0.05906
M75 × 1.5	6h	0.00000	2.95276	2.94346	2.91441	2.90811	2.88882	2.87173	0.05906
M75 × 1.5	4g6g	0.00126	2.95150	2.94220	2.91315	2.90921	2.88756	2.87283	0.05906
M80 × 6	6g	0.00315	3.14646	3.12283	2.99303	2.98201	2.89075	2.83650	0.23622
M80 × 6	6h	0.00000	3.14961	3.12598	2.99618	2.98516	2.89390	2.83965	0.23622
M80 × 6	4g6g	0.00315	3.14646	3.12283	2.99303	2.98594	2.89075	2.84043	0.23622
M80 × 2	6g	0.00150	3.14811	3.13709	3.09697	3.08988	3.06287	3.04138	0.07874
M80 × 2	6h	0.00000	3.14961	3.13858	3.09846	3.09138	3.06437	3.04287	0.07874
M80 × 2	4g6g	0.00150	3.14811	3.13709	3.09697	3.09256	3.06287	3.04406	0.07874
M80 × 1.5	6g	0.00126	3.14835	3.13906	3.11000	3.10370	3.08441	3.06732	0.05906
M80 × 1.5	6h	0.00000	3.14961	3.14031	3.11126	3.10496	3.08567	3.06858	0.05906
M80 × 1.5	4g6g	0.00126	3.14835	3.13906	3.11000	3.10606	3.08441	3.06969	0.05906
M85 × 2	6g	0.00150	3.34496	3.33394	3.29382	3.28673	3.25972	3.23823	0.07874
M85 × 2	6h	0.00000	3.34646	3.33543	3.29531	3.28823	3.26122	3.23972	0.07874
M85 × 2	4g6g	0.00150	3.34496	3.33394	3.29382	3.28941	3.25972	3.24091	0.07874
M90 × 6	6g	0.00315	3.54016	3.51654	3.38673	3.37571	3.28445	3.23020	0.23622
M90 × 6	6h	0.00000	3.54331	3.51969	3.38988	3.37886	3.28760	3.23335	0.23622

Table C-1 Inch Translation for External Thread — Limiting Dimensions M Profile (Cont'd)

Basic Thread Designation	Tolerance Class	Allowance, e_s [Note (1)]	Major Diameter, d [Note (2)]		Pitch Diameter, d_2 and Functional Diameter [Notes (2), (3), and (4)]		Max. Minor Diameter (Flat Form), d_1 [Note (2)]	Min. Minor Diam. (Rounded Form), d_3 [Note (5)] (For Reference)	Nominal Pitch, P
			Max.	Min.	Max.	Min.			
M90 × 6	4g6g	0.00315	3.54016	3.51654	3.38673	3.37965	3.28445	3.23413	0.23622
M90 × 2	6g	0.00150	3.54181	3.53079	3.49067	3.48358	3.45657	3.43508	0.07874
M90 × 2	6h	0.00000	3.54331	3.53228	3.49217	3.48508	3.45807	3.43657	0.07874
M90 × 2	4g6g	0.00150	3.54181	3.53079	3.49067	3.48626	3.45657	3.43776	0.07874
M95 × 2	6g	0.00150	3.73866	3.72764	3.68752	3.68004	3.65343	3.63154	0.07874
M95 × 2	6h	0.00000	3.74016	3.72913	3.68902	3.68154	3.65492	3.63303	0.07874
M95 × 2	4g6g	0.00150	3.73866	3.72764	3.68752	3.68287	3.65343	3.63437	0.07874
M100 × 6	6g	0.00315	3.93386	3.91024	3.78043	3.76862	3.67815	3.62311	0.23622
M100 × 6	6h	0.00000	3.93701	3.91339	3.78358	3.77177	3.68130	3.62626	0.23622
M100 × 6	4g6g	0.00315	3.93386	3.91024	3.78043	3.77295	3.67815	3.62744	0.23622
M100 × 2	6g	0.00150	3.93551	3.92449	3.88437	3.87689	3.85028	3.82839	0.07874
M100 × 2	6h	0.00000	3.93701	3.92598	3.88587	3.87839	3.85177	3.82988	0.07874
M100 × 2	4g6g	0.00150	3.93551	3.92449	3.88437	3.87972	3.85028	3.83122	0.07874
M105 × 2	6g	0.00150	4.13236	4.12134	4.08122	4.07374	4.04713	4.02524	0.07874
M105 × 2	6h	0.00000	4.13386	4.12283	4.08272	4.07524	4.04862	4.02673	0.07874
M105 × 2	4g6g	0.00150	4.13236	4.12134	4.08122	4.07657	4.04713	4.02807	0.07874
M110 × 2	6g	0.00150	4.32921	4.31819	4.27807	4.27059	4.24398	4.22209	0.07874
M110 × 2	6h	0.00000	4.33071	4.31969	4.27957	4.27209	4.24547	4.22358	0.07874
M110 × 2	4g6g	0.00150	4.32921	4.31819	4.27807	4.27343	4.24398	4.22492	0.07874
M120 × 2	6g	0.00150	4.72291	4.71189	4.67177	4.66429	4.63768	4.61579	0.07874
M120 × 2	6h	0.00000	4.72441	4.71339	4.67327	4.66579	4.63917	4.61728	0.07874
M120 × 2	4g6g	0.00150	4.72291	4.71189	4.67177	4.66713	4.63768	4.61862	0.07874
M130 × 2	6g	0.00150	5.11661	5.10559	5.06547	5.05799	5.03138	5.00949	0.07874
M130 × 2	6h	0.00000	5.11811	5.10709	5.06697	5.05949	5.03287	5.01098	0.07874
M130 × 2	4g6g	0.00150	5.11661	5.10559	5.06547	5.06083	5.03138	5.01232	0.07874
M140 × 2	6g	0.00150	5.51031	5.49929	5.45917	5.45169	5.42508	5.40319	0.07874
M140 × 2	6h	0.00000	5.51181	5.50079	5.46067	5.45319	5.42657	5.40469	0.07874
M140 × 2	4g6g	0.00150	5.51031	5.49929	5.45917	5.45453	5.42508	5.40602	0.07874
M150 × 2	6g	0.00150	5.90402	5.89299	5.85287	5.84539	5.81878	5.79689	0.07874
M150 × 2	6h	0.00000	5.90551	5.89449	5.85437	5.84689	5.82028	5.79839	0.07874
M150 × 2	4g6g	0.00150	5.90402	5.89299	5.85287	5.84823	5.81878	5.79972	0.07874

Table C-1 Inch Translation for External Thread — Limiting Dimensions M Profile (Cont'd)

Basic Thread Designation	Tolerance Class	Allowance, e_s [Note (1)]	Major Diameter, d [Note (2)]		Pitch Diameter, d_2 and Functional Diameter [Notes (2), (3), and (4)]			Max. Minor Diameter (Flat Form), d_1 [Note (2)]	Min. Minor Diam. (Rounded Form), d_3 [Note (5)] (For Reference)	Nominal Pitch, P
			Max.	Min.	Max.	Min.	Tol.			
M160 × 3	6g	0.00189	6.29732	6.28256	6.22059	6.21177	0.00882	6.16945	6.13902	0.11811
M160 × 3	6h	0.00000	6.29921	6.28445	6.22248	6.21366	0.00882	6.17134	6.14091	0.11811
M160 × 3	4g6g	0.00189	6.29732	6.28256	6.22059	6.21508	0.00551	6.16945	6.14232	0.11811
M170 × 3	6g	0.00189	6.69102	6.67626	6.61429	6.60547	0.00882	6.56315	6.53272	0.11811
M170 × 3	6h	0.00000	6.69291	6.67815	6.61618	6.60736	0.00882	6.56504	6.53461	0.11811
M170 × 3	4g6g	0.00189	6.69102	6.67626	6.61429	6.60878	0.00551	6.56315	6.53602	0.11811
M180 × 3	6g	0.00189	7.08472	7.06996	7.00799	6.99917	0.00882	6.95685	6.92642	0.11811
M180 × 3	6h	0.00000	7.08661	7.07185	7.00988	7.00106	0.00882	6.95874	6.92831	0.11811
M180 × 3	4g6g	0.00189	7.08472	7.06996	7.00799	7.00248	0.00551	6.95685	6.92972	0.11811
M190 × 3	6g	0.00189	7.47843	7.46366	7.40169	7.39185	0.00984	7.35055	7.31909	0.11811
M190 × 3	6h	0.00000	7.48031	7.46555	7.40358	7.39374	0.00984	7.35244	7.32098	0.11811
M190 × 3	4g6g	0.00189	7.47843	7.46366	7.40169	7.39539	0.00630	7.35055	7.32264	0.11811
M200 × 3	6g	0.00189	7.87213	7.85736	7.79539	7.78555	0.00984	7.74425	7.71280	0.11811
M200 × 3	6h	0.00000	7.87402	7.85925	7.79728	7.78744	0.00984	7.74614	7.71469	0.11811
M200 × 3	4g6g	0.00189	7.87213	7.85736	7.79539	7.78909	0.00630	7.74425	7.71634	0.11811

GENERAL NOTE: All dimensions are in inches.

NOTES:

- (1) e_s is absolute value.
- (2) For coated threads with tolerance classes 6g or 4g6g, see para. 8.2.
- (3) See para. 5.4(b).
- (4) Since these tabulated tolerance values have been converted and then rounded, they may differ slightly from the difference between tabulated maximum and minimum values.
- (5) Dimension used in the design of tools, etc. In dimensioning external threads it is not normally specified. Generally, minor diameter acceptance is based on maximum material condition gaging.

Table C-2 Inch Translation for Internal Thread — Limiting Dimensions M Profile

Basic Thread Designation	Tolerance Class	Minor Diam., D_1		Pitch Diam., D_2 and Functional Diam. [Notes (1) and (2)]			Major Diam., D		Nominal Pitch, P
		Min.	Max.	Min.	Max.	Tol.	Min.	Max. [Note (3)] (Reference)	
M1.6 × 0.35	6H	0.04807	0.05201	0.05406	0.05740	0.00335	0.06299	0.06835	0.01378
M2 × 0.4	6H	0.06169	0.06610	0.06850	0.07205	0.00354	0.07874	0.08457	0.01575
M2.5 × 0.45	6H	0.07925	0.08417	0.08693	0.09067	0.00374	0.09843	0.10472	0.01772
M3 × 0.5	6H	0.09681	0.10232	0.10531	0.10925	0.00394	0.11811	0.12488	0.01969
M3.5 × 0.6	6H	0.11220	0.11850	0.12244	0.12685	0.00441	0.13780	0.14559	0.02362
M4 × 0.7	6H	0.12764	0.13472	0.13957	0.14421	0.00465	0.15748	0.16610	0.02756
M5 × 0.8	6H	0.16276	0.17063	0.17638	0.18130	0.00492	0.19685	0.20630	0.03150
M6 × 1	6H	0.19358	0.20287	0.21063	0.21654	0.00591	0.23622	0.24780	0.03937
M8 × 1.25	6H	0.26169	0.27213	0.28299	0.28929	0.00630	0.31496	0.32835	0.04921
M8 × 1	6H	0.27232	0.28161	0.28937	0.29528	0.00591	0.31496	0.32654	0.03937
M10 × 1.5	6H	0.32976	0.34157	0.35535	0.36244	0.00709	0.39370	0.40933	0.05906
M10 × 1.25	6H	0.34043	0.35087	0.36173	0.36803	0.00630	0.39370	0.40709	0.04921
M10 × 1	6H	0.35106	0.36035	0.36811	0.37402	0.00591	0.39370	0.40528	0.03937
M10 × 0.75	6H	0.36173	0.36921	0.37453	0.37972	0.00520	0.39370	0.40315	0.02953
M12 × 1.75	6H	0.39787	0.41106	0.42768	0.43555	0.00787	0.47244	0.49024	0.06890
M12 × 1.5	6H	0.40850	0.42031	0.43409	0.44157	0.00748	0.47244	0.48846	0.05906
M12 × 1.25	6H	0.41917	0.42961	0.44047	0.44756	0.00709	0.47244	0.48661	0.04921
M12 × 1	6H	0.42980	0.43909	0.44685	0.45315	0.00630	0.47244	0.48441	0.03937
M14 × 2	6H	0.46594	0.48071	0.50004	0.50839	0.00835	0.55118	0.57091	0.07874
M14 × 1.5	6H	0.48724	0.49906	0.51283	0.52031	0.00748	0.55118	0.56720	0.05906
M15 × 1	6H	0.54791	0.55720	0.56496	0.57126	0.00630	0.59055	0.60252	0.03937
M16 × 2	6H	0.54469	0.55945	0.57878	0.58713	0.00835	0.62992	0.64965	0.07874
M16 × 1.5	6H	0.56598	0.57780	0.59157	0.59906	0.00748	0.62992	0.64594	0.05906
M17 × 1	6H	0.62665	0.63594	0.64370	0.65000	0.00630	0.66929	0.68126	0.03937
M18 × 1.5	6H	0.64472	0.65654	0.67031	0.67780	0.00748	0.70866	0.72469	0.05906
M20 × 2.5	6H	0.68087	0.69858	0.72346	0.73228	0.00882	0.78740	0.81043	0.09843
M20 × 1.5	6H	0.72346	0.73528	0.74906	0.75654	0.00748	0.78740	0.80343	0.05906
M20 × 1	6H	0.74476	0.75406	0.76181	0.76811	0.00630	0.78740	0.79937	0.03937
M22 × 2.5	6H	0.75961	0.77732	0.80220	0.81102	0.00882	0.86614	0.88917	0.09843
M22 × 1.5	6H	0.80220	0.81402	0.82780	0.83528	0.00748	0.86614	0.88217	0.05906
M24 × 3	6H	0.81701	0.83669	0.86815	0.87858	0.01043	0.94488	0.97236	0.11811
M24 × 2	6H	0.85965	0.87441	0.89374	0.90256	0.00882	0.94488	0.96508	0.07874
M25 × 1.5	6H	0.92031	0.93213	0.94591	0.95378	0.00787	0.98425	1.00067	0.05906
M27 × 3	6H	0.93512	0.95480	0.98626	0.99669	0.01043	1.06299	1.09047	0.11811
M27 × 2	6H	0.97776	0.99252	1.01185	1.02067	0.00882	1.06299	1.08319	0.07874
M30 × 3.5	6H	1.03193	1.05398	1.09161	1.10264	0.01102	1.18110	1.21205	0.13780
M30 × 2	6H	1.09587	1.11063	1.12996	1.13878	0.00882	1.18110	1.20130	0.07874
M30 × 1.5	6H	1.11717	1.12898	1.14276	1.15063	0.00787	1.18110	1.19752	0.05906
M33 × 2	6H	1.21398	1.22874	1.24807	1.25689	0.00882	1.29921	1.31941	0.07874
M35 × 1.5	6H	1.31402	1.32583	1.33961	1.34748	0.00787	1.37795	1.39437	0.05906
M36 × 4	6H	1.24685	1.27047	1.31504	1.32685	0.01181	1.41732	1.45185	0.15748
M36 × 2	6H	1.33209	1.34685	1.36618	1.37500	0.00882	1.41732	1.43752	0.07874
M39 × 2	6H	1.45020	1.46496	1.48429	1.49311	0.00882	1.53543	1.55563	0.07874
M40 × 1.5	6H	1.51087	1.52268	1.53646	1.54433	0.00787	1.57480	1.59122	0.05906
M42 × 4.5	6H	1.46177	1.48815	1.53846	1.55087	0.01240	1.65354	1.69150	0.17717

Table C-2 Inch Translation for Internal Thread — Limiting Dimensions M Profile (Cont'd)

Basic Thread Designation	Tolerance Class	Minor Diam., D_1		Pitch Diam., D_2 and Functional Diam. [Notes (1) and (2)]			Major Diam., D		Nominal Pitch, P
		Min.	Max.	Min.	Max.	Tol.	Min.	Max. [Note (3)] (Reference)	
M42 × 2	6H	1.56831	1.58307	1.60240	1.61122	0.00882	1.65354	1.67374	0.07874
M45 × 1.5	6H	1.70772	1.71953	1.73331	1.74118	0.00787	1.77165	1.78807	0.05906
M48 × 5	6H	1.67665	1.70461	1.76189	1.77508	0.01319	1.88976	1.93134	0.19685
M48 × 2	6H	1.80453	1.81929	1.83862	1.84791	0.00929	1.88976	1.91043	0.07874
M50 × 1.5	6H	1.90457	1.91638	1.93016	1.93850	0.00835	1.96850	1.98539	0.05906
M55 × 1.5	6H	2.10142	2.11323	2.12701	2.13535	0.00835	2.16535	2.18224	0.05906
M56 × 5.5	6H	1.97031	1.99984	2.06409	2.07807	0.01398	2.20472	2.24996	0.21654
M56 × 2	6H	2.11949	2.13425	2.15358	2.16287	0.00929	2.20472	2.22539	0.07874
M60 × 1.5	6H	2.29827	2.31008	2.32386	2.33220	0.00835	2.36220	2.37909	0.05906
M64 × 6	6H	2.26398	2.29547	2.36626	2.38102	0.01476	2.51969	2.56854	0.23622
M64 × 2	6H	2.43445	2.44921	2.46854	2.47783	0.00929	2.51969	2.54035	0.07874
M65 × 1.5	6H	2.49512	2.50693	2.52071	2.52906	0.00835	2.55906	2.57594	0.05906
M70 × 1.5	6H	2.69197	2.70378	2.71756	2.72591	0.00835	2.75591	2.77280	0.05906
M72 × 6	6H	2.57894	2.61043	2.68122	2.69598	0.01476	2.83465	2.88350	0.23622
M72 × 2	6H	2.74941	2.76417	2.78350	2.79280	0.00929	2.83465	2.85531	0.07874
M75 × 1.5	6H	2.88882	2.90063	2.91441	2.92276	0.00835	2.95276	2.96965	0.05906
M80 × 6	6H	2.89390	2.92539	2.99618	3.01094	0.01476	3.14961	3.19846	0.23622
M80 × 2	6H	3.06437	3.07913	3.09846	3.10776	0.00929	3.14961	3.17028	0.07874
M80 × 1.5	6H	3.08567	3.09748	3.11126	3.11961	0.00835	3.14961	3.16650	0.05906
M85 × 2	6H	3.26122	3.27598	3.29531	3.30461	0.00929	3.34646	3.36713	0.07874
M90 × 6	6H	3.28760	3.31909	3.38988	3.40465	0.01476	3.54331	3.59217	0.23622
M90 × 2	6H	3.45807	3.47283	3.49217	3.50146	0.00929	3.54331	3.56398	0.07874
M95 × 2	6H	3.65492	3.66969	3.68902	3.69886	0.00984	3.74016	3.76138	0.07874
M100 × 6	6H	3.68130	3.71280	3.78358	3.79933	0.01575	3.93701	3.98685	0.23622
M100 × 2	6H	3.85177	3.86654	3.88587	3.89571	0.00984	3.93701	3.95823	0.07874
M105 × 2	6H	4.04862	4.06339	4.08272	4.09256	0.00984	4.13386	4.15508	0.07874
M110 × 2	6H	4.24547	4.26024	4.27957	4.28941	0.00984	4.33071	4.35193	0.07874
M120 × 2	6H	4.63917	4.65394	4.67327	4.68311	0.00984	4.72441	4.74563	0.07874
M130 × 2	6H	5.03287	5.04764	5.06697	5.07681	0.00984	5.11811	5.13933	0.07874
M140 × 2	6H	5.42657	5.44134	5.46067	5.47051	0.00984	5.51181	5.53303	0.07874
M150 × 2	6H	5.82028	5.83504	5.85437	5.86421	0.00984	5.90551	5.92673	0.07874
M160 × 3	6H	6.17134	6.19102	6.22248	6.23429	0.01181	6.29921	6.32807	0.11811
M170 × 3	6H	6.56504	6.58472	6.61618	6.62799	0.01181	6.69291	6.72177	0.11811
M180 × 3	6H	6.95874	6.97843	7.00988	7.02169	0.01181	7.08661	7.11547	0.11811
M190 × 3	6H	7.35244	7.37213	7.40358	7.41677	0.01319	7.48031	7.51055	0.11811
M200 × 3	6H	7.74614	7.76583	7.79728	7.81047	0.01319	7.87402	7.90425	0.11811

GENERAL NOTE: All dimensions are in inches.

NOTES:

- (1) See para. 5.4.2.
- (2) Since these tabulated tolerance values have been converted and then rounded, they may differ slightly from the difference between tabulated maximum and minimum values.
- (3) Dimension is used in the design of tools, etc. In dimensioning internal threads it is not normally specified. Generally, major diameter acceptance is based on maximum material condition gaging.

NONMANDATORY APPENDIX D

BASIC DIMENSIONS FOR ISO SERIES METRIC SCREW THREADS FROM ISO 724

Table D-1

Nom. Diam. = Major Diam., <i>D, d</i>	Pitch, <i>P</i>	Pitch Diameter, <i>D₂, d₂</i>	Minor Diameter, <i>D₁, d₁</i>
1.6	0.35	1.373	1.221
	0.2	1.470	1.383
1.8	0.35	1.573	1.421
	0.2	1.670	1.583
2	0.4	1.740	1.567
	0.25	1.838	1.729
2.2	0.45	1.908	1.713
	0.25	2.038	1.929
2.5	0.45	2.208	2.013
	0.35	2.273	2.121
3	0.5	2.675	2.459
	0.35	2.773	2.621
3.5	0.6	3.110	2.850
	0.35	3.273	3.121
4	0.7	3.545	3.242
	0.5	3.675	3.459
4.5	0.75	4.013	3.688
	0.5	4.175	3.959
5	0.8	4.480	4.134
	0.5	4.675	4.459
5.5	0.5	5.175	4.959
6	1	5.350	4.917
	0.75	5.513	5.188
7	1	6.350	5.917
	0.75	6.513	6.188
8	1.25	7.188	6.647
	1	7.350	6.917
	0.75	7.513	7.188
9	1.25	8.188	7.647
	1	8.350	7.917
	0.75	8.513	8.188
10	1.5	9.026	8.376
	1.25	9.188	8.647
	1	9.350	8.917
	0.75	9.513	9.188
11	1.5	10.026	9.376
	1	10.350	9.917
	0.75	10.513	10.188

Table D-1 (Cont'd)

Nom. Diam. = Major Diam., <i>D, d</i>	Pitch, <i>P</i>	Pitch Diameter, <i>D₂, d₂</i>	Minor Diameter, <i>D₁, d₁</i>
12	1.75	10.863	10.106
	1.5	11.026	10.376
	1.25	11.188	10.647
	1	11.350	10.917
14	2	12.701	11.835
	1.5	13.026	12.376
	1.25	13.188	12.647
	1	13.350	12.917
15	1.5	14.026	13.376
	1	14.350	13.917
16	2	14.701	13.835
	1.5	15.026	14.376
	1	15.350	14.917
17	1.5	16.026	15.376
	1	16.350	15.917
18	2.5	16.376	15.294
	2	16.701	15.835
	1.5	17.026	16.376
	1	17.350	16.917
20	2.5	18.376	17.294
	2	18.701	17.835
	1.5	19.026	18.376
	1	19.350	18.917
22	2.5	20.376	19.294
	2	20.701	19.835
	1.5	21.026	20.376
	1	21.350	20.917
24	3	22.051	20.752
	2	22.701	21.835
	1.5	23.026	22.376
	1	23.350	22.917
25	2	23.701	22.835
	1.5	24.026	23.376
	1	24.350	23.917
26	1.5	25.026	24.376
27	3	25.051	23.752
	2	25.701	24.835
	1.5	26.026	25.376
	1	26.350	25.917
28	2	26.701	25.835
	1.5	27.026	26.376
	1	27.350	26.917

Table D-1 (Cont'd)

Nom. Diam. = Major Diam., D, d	Pitch, P	Pitch Diameter, D_2, d_2	Minor Diameter, D_1, d_1
30	3.5	27.727	26.211
	3	28.051	26.752
	2	28.701	27.835
	1.5	29.026	28.376
	1	29.350	28.917
32	2	30.701	29.835
	1.5	31.026	30.376
33	3.5	30.727	29.211
	3	31.051	29.752
	2	31.701	30.835
	1.5	32.026	31.376
35	1.5	34.026	33.376
36	4	33.402	31.670
	3	34.051	32.752
	2	34.701	33.835
	1.5	35.026	34.376
38	1.5	37.026	36.376
39	4	36.402	34.670
	3	37.051	35.752
	2	37.701	36.835
	1.5	38.026	37.376
40	3	38.051	36.752
	2	38.701	37.835
	1.5	39.026	38.376
42	4.5	39.077	37.129
	4	39.402	37.670
	3	40.051	38.752
	2	40.701	39.835
	1.5	41.026	40.376
45	4.5	42.077	40.129
	4	42.402	40.670
	3	43.051	41.752
	2	43.701	42.835
	1.5	44.026	43.376
48	5	44.752	42.587
	4	45.402	43.670
	3	46.051	44.752
	2	46.701	45.835
	1.5	47.026	46.376
50	3	48.051	46.752
	2	48.701	47.835
	1.5	49.026	48.376
52	5	48.752	46.587
	4	49.402	47.670
	3	50.051	48.752
	2	50.701	49.835
	1.5	51.026	50.376
55	4	52.402	50.670
	3	53.051	51.752
	2	53.701	52.835
	1.5	54.026	53.376

Table D-1 (Cont'd)

Nom. Diam. = Major Diam., D, d	Pitch, P	Pitch Diameter, D_2, d_2	Minor Diameter, D_1, d_1
56	5.5	52.428	50.046
	4	53.402	51.670
	3	54.051	52.752
	2	54.701	53.835
	1.5	55.026	54.376
58	4	55.402	53.670
	3	56.051	54.752
	2	56.701	55.835
	1.5	57.026	56.376
60	5.5	56.428	54.046
	4	57.402	55.670
	3	58.051	56.752
	2	58.701	57.835
	1.5	59.026	58.376
62	4	59.402	57.670
	3	60.051	58.752
	2	60.701	59.835
	1.5	61.026	60.376
64	6	60.103	57.505
	4	61.402	59.670
	3	62.051	60.752
	2	62.701	61.835
	1.5	63.026	62.376
65	4	62.402	60.670
	3	63.051	61.752
	2	63.701	62.835
	1.5	64.026	63.376
68	6	64.103	61.505
	4	65.402	63.670
	3	66.051	64.752
	2	66.701	65.835
	1.5	67.026	66.376
70	6	66.103	63.505
	4	67.402	65.670
	3	68.051	66.752
	2	68.701	67.835
	1.5	69.026	68.376
72	6	68.103	65.505
	4	69.402	67.670
	3	70.051	68.752
	2	70.701	69.835
	1.5	71.026	70.376
75	4	72.402	70.670
	3	73.051	71.752
	2	73.701	72.835
	1.5	74.026	73.376
76	6	72.103	69.505
	4	73.402	71.670
	3	74.051	72.752
	2	74.701	73.835
78	1.5	75.026	74.376
	2	76.700	75.835

Table D-1 (Cont'd)

Nom. Diam. = Major Diam., D, d	Pitch, P	Pitch Diameter, D_2, d_2	Minor Diameter, D_1, d_1
80	6	76.103	73.505
	4	77.402	75.670
	3	78.051	76.752
	2	78.701	77.835
	1.5	79.026	78.376
82	2	80.701	79.835
85	6	81.103	78.505
	4	82.402	80.670
	3	83.051	81.752
	2	83.701	82.835
90	6	86.103	83.505
	4	87.402	85.670
	3	88.051	86.752
	2	88.701	87.835
95	6	91.103	88.505
	4	92.402	90.670
	3	93.051	91.752
	2	93.701	92.835
100	6	96.103	93.505
	4	97.402	95.670
	3	98.051	96.752
	2	98.701	97.835
105	6	101.103	98.505
	4	102.402	100.670
	3	103.051	101.752
	2	103.701	102.835
110	6	106.103	103.505
	4	107.402	105.670
	3	108.051	106.752
	2	108.701	107.835
115	6	111.103	108.505
	4	112.402	110.670
	3	113.051	111.752
	2	113.701	112.835
120	6	116.103	113.505
	4	117.402	115.670
	3	118.051	116.752
	2	118.701	117.835
125	8 [Note(1)]	119.804	116.340
	6	121.103	118.505
	4	122.402	120.670
	3	123.051	121.752
	2	123.701	122.835
130	8 [Note(1)]	124.804	121.340
	6	126.103	123.505
	4	127.402	125.670
	3	128.051	126.752
	2	128.701	127.835
135	6	131.103	128.505
	4	132.402	130.670
	3	133.051	131.752
	2	133.701	132.835

Table D-1 (Cont'd)

Nom. Diam. = Major Diam., D, d	Pitch, P	Pitch Diameter, D_2, d_2	Minor Diameter, D_1, d_1
140	8 [Note (1)]	134.804	131.340
	6	136.103	133.505
	4	137.402	135.670
	3	138.051	136.752
	2	138.701	137.835
145	6	141.103	138.505
	4	142.402	140.670
	3	143.051	141.752
	2	143.701	142.835
150	8	144.804	141.340
	6	146.103	143.505
	4	147.402	145.670
	3	148.051	146.752
155	2	148.701	147.835
	6	151.103	148.505
	4	152.402	150.670
	3	153.051	151.752
160	8	154.804	151.340
	6	156.103	153.505
	4	157.402	155.670
	3	158.051	156.752
165	6	161.103	158.505
	4	162.402	160.670
	3	163.051	161.752
170	8	164.804	161.340
	6	166.103	163.505
	4	167.402	165.670
	3	168.051	166.752
175	6	171.103	168.505
	4	172.402	170.670
	3	173.051	171.752
180	8	174.804	171.340
	6	176.103	173.505
	4	177.402	175.670
	3	178.051	176.752
185	6	181.103	178.505
	4	182.402	180.670
	3	183.051	181.752
190	8	184.804	181.340
	6	186.103	183.505
	4	187.402	185.670
	3	188.051	186.752
195	6	191.103	188.505
	4	192.402	190.670
	3	193.051	191.752
200	8	194.804	191.340
	6	196.103	193.505
	4	197.402	195.670
	3	198.051	196.752
205	6	201.103	198.505
	4	202.402	200.670
	3	203.051	201.752

Table D-1 (Cont'd)

Nom. Diam. = Major Diam., D, d	Pitch, P	Pitch Diameter, D_2, d_2	Minor Diameter, D_1, d_1
210	8	204.804	201.340
	6	206.103	203.505
	4	207.402	205.670
	3	208.051	206.752
215	6	211.103	208.505
	4	212.402	210.670
	3	213.051	211.752
220	8	214.804	211.340
	6	216.103	213.505
	4	217.402	215.670
	3	218.051	216.752
225	6	221.103	218.505
	4	222.402	220.670
	3	223.051	221.752
230	8	224.804	221.340
	6	226.103	223.505
	4	227.402	225.670
	3	228.051	226.752
235	6	231.103	228.505
	4	232.402	230.670
	3	233.051	231.752
240	8	234.804	231.340
	6	236.103	233.505
	4	237.402	235.670
	3	238.051	236.752
245	6	241.103	238.505
	4	242.402	240.670
	3	243.051	241.752
250	8	244.804	241.340
	6	246.103	243.505
	4	247.402	245.670
	3	248.051	246.752

Table D-1 (Cont'd)

Nom. Diam. = Major Diam., D, d	Pitch, P	Pitch Diameter, D_2, d_2	Minor Diameter, D_1, d_1
255	6	251.103	248.505
	4	252.402	250.670
260	8	254.804	251.340
	6	256.103	253.505
	4	257.402	255.670
265	6	261.103	258.505
	4	262.402	260.670
270	8	264.804	261.340
	6	266.103	263.505
	4	267.402	265.670
275	6	271.103	268.505
	4	272.402	270.670
280	8	274.804	271.340
	6	276.103	273.505
	4	277.402	275.670
285	6	281.103	278.505
	4	282.402	280.670
290	8	284.804	281.340
	6	286.103	283.505
	4	287.402	285.670
295	6	291.103	288.505
	4	292.402	290.670
300	8	294.804	291.340
	6	296.103	293.505
	4	297.402	295.670

GENERAL NOTE: All dimensions are in millimeters.

NOTE:

(1) Not yet incorporated in ISO 724.

NONMANDATORY APPENDIX E

OVERTAPPED NUT THREAD CLASS 6AX

This Appendix (see Tables E-1 and E-2) contains information on internal threads of tolerance class 6AX, which follow current USA practice of overtapping to accommodate as-coated hot-dip galvanized external threads of tolerance class 6g prior to coating. It incorporates thread size limits from ISO 965-5 and is consistent with average galvanizing practice as stated in ASTM A153.

**Table E-1 Allowance (Fundamental Deviation),
Tolerance Position AX
(ISO 965-5)**

Pitch, <i>P</i>	Allowance (Fundamental Deviation), <i>EI</i> [Note (1)]
1.25 [Note (2)]	+0.255
1.5	+0.310
1.75	+0.365
2	+0.420
2.5	+0.530
3	+0.640
3.5	+0.750
4	+0.860
4.5	+0.970
5	+1.080
5.5	+1.190
6	+1.300

GENERAL NOTE: All dimensions are in millimeters.

NOTES:

(1) Allowance = + (0.220*P* – 0.020).

(2) 1.25 pitch is not included in ISO 965-5.

**Table E-2 Internal Thread — Limiting Dimensions, Tolerance Class 6AX
for Normal Length of Engagement (ISO 965-5)**

Size	Minor Diameter [Note (1)]		Pitch Diameter [Note (2)]			Min. Major Diameter [Note (2)]
	Min.	Max.	Min.	Max.	Tol.	
M8 × 1.25 [Note (3)]	6.902	7.167	7.443	7.603	0.160	8.255
M10 × 1.5	8.686	8.986	9.336	9.516	0.180	10.310
M12 × 1.75	10.471	10.806	11.228	11.428	0.200	12.365
M14 × 2	12.255	12.630	13.121	13.333	0.212	14.420
M16 × 2	14.255	14.630	15.121	15.333	0.212	16.420
M20 × 2.5	17.824	18.274	18.906	19.130	0.224	20.530
M22 × 2.5	19.824	20.274	20.906	21.130	0.224	22.530
M24 × 3	21.392	21.892	22.691	22.956	0.265	24.640
M27 × 3	24.392	24.892	25.691	25.956	0.265	27.640
M30 × 3.5	26.961	27.521	28.477	28.757	0.280	30.750
M36 × 4	32.530	33.130	34.262	34.562	0.300	36.860
M42 × 4.5	38.099	38.769	40.047	40.362	0.315	42.970
M48 × 5	43.667	44.377	45.832	46.167	0.335	49.080
M56 × 5.5	51.236	51.986	53.618	53.973	0.355	57.190
M64 × 6	58.805	59.605	61.403	61.778	0.375	65.300

GENERAL NOTE: All dimensions are in millimeters.

NOTES:

- (1) Dimensions apply before galvanizing or after removal of zinc fragments.
- (2) Dimensions apply after galvanizing and tapping oversize.
- (3) M8 × 1.25 – 6AX is not included in ISO 965-5.

NONMANDATORY APPENDIX F

INTERNAL THREAD ALLOWANCE (FUNDAMENTAL DEVIATION) TOLERANCE POSITION *E*

This Appendix (see Table F-1) contains information on internal threads of tolerance position *E* for use in special applications where *G* does not provide sufficient allowance. It uses the numerical values of external thread tolerance position *e* applied in the opposite direction.

Table F-1 Allowance (Fundamental Deviation), Tolerance Position *E*

Pitch, <i>P</i>	Allowance (Fundamental Deviation), <i>EI</i> [Note (1)]	Pitch, <i>P</i>	Allowance (Fundamental Deviation), <i>EI</i> [Note (1)]
0.5	+0.050	2	+0.071
0.6	+0.053	2.5	+0.080
0.7	+0.056	3	+0.085
0.75	+0.056	3.5	+0.090
0.8	+0.060	4	+0.095
1	+0.060	4.5	+0.100
1.25	+0.063	5	+0.106
1.5	+0.067	5.5	+0.112
1.75	+0.071	6	+0.118
		8	+0.140

GENERAL NOTE: All dimensions are in millimeters (mm).

NOTE:

(1) Allowance = $+(0.05 + 0.011P)$.

B1 OTHER STANDARDS FOR SCREW THREADS

Unified Inch Screw Threads (UN and UNR Thread Form).....	B1.1-2003
Gages and Gaging for Unified Inch Screw Threads	B1.2-1983 (R2001)
Screw Thread Gaging Systems for Dimensional Acceptability — Inch and Metric Screw Threads (UN, UNR, UNJ, M, and MJ)	B1.3M-1992 (R2001)
Acme Screw Threads	B1.5-1997 (R2004)
Nomenclature, Definitions, and Letter Symbols for Screw Threads	B1.7M-1984 (R2001)
Stub Acme Screw Threads	B1.8-1988 (R2001)
Buttress Inch Screw Threads 7°/45° Form With 0.6 Pitch Basic Height of Thread Engagement	B1.9-1973 (R2001)
Unified Miniature Screw Threads	B1.10M-2004
Microscope Objective Thread	B1.11-1958 (R2001)
Class 5 Interference-Fit Thread	B1.12-1987 (R2003)
Metric Screw Threads: M Profile	B1.13M-2005
Unified Inch Screw Threads (UNJ Thread Form)	B1.15-1995
Gages and Gaging for Metric M Screw Threads	B1.16M-1984 (R2001)
Pipe Threads, General Purpose (Inch)	B1.20.1-1983 (R2001)
Dryseal Pipe Threads (Inch)	B1.20.3-1976 (R2003)
Gaging for Dryseal Pipe Threads (Inch)	B1.20.5-1991 (R2004)
Hose Coupling Screw Threads (Inch)	B1.20.7-1991 (R2003)
Metric Screw Threads: MJ Profile	B1.21M-1997 (R2003)
Gages and Gaging for MJ Series Metric Screw Threads	B1.22M-1985 (R2001)
Screw Threads: Standard Practice for Calculating and Rounding Dimensions	B1.30-2002

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