

inch

Internal 內螺紋

Size
尺寸
Thread
Designation 螺紋規
格名稱

Size 尺寸	Thread Designation 螺紋規 格名稱	Internal 內螺紋						
		Class	Minor Dia		Pitch Dia		Major Dia	
			Min	Max	Min	Max	Min	Max
0.0118	30-318 UNM	2B	0.0085	0.0100	0.0098	0.0103	0.0120	
0.0138	35-282 UNM	2B	0.0101	0.0117	0.0115	0.0121	0.0140	
0.0157	40-254 UNM	2B	0.0117	0.0134	0.0132	0.0138	0.0160	
0.0177	45-254 UNM	2B	0.0136	0.0154	0.0152	0.0158	0.0180	
0.0197	50-203 UNM	2B	0.0146	0.0166	0.0165	0.0172	0.0200	
0.021	0000-160 NS	2B	0.0169	0.0181	0.0169	0.0181	0.021	
0.0217	55-203 UNM	2B	0.0165	0.0186	0.0185	0.0192	0.0220	
0.0236	60-169 UNM	2B	0.0175	0.0198	0.0198	0.0206	0.0241	
0.0276	70-145 UNM	2B	0.0204	0.0231	0.0231	0.0239	0.0281	
0.0315	80-127 UNM	2B	0.0233	0.0263	0.0264	0.0273	0.0320	
0.034	000-120 NS	2B	0.0286	0.03	0.0286	0.03	0.034	
0.0354	90-113 UNM	2B	0.0262	0.0295	0.0297	0.0307	0.0361	
0.0394	100-102 UNM	2B	0.0291	0.0328	0.0330	0.0341	0.0401	
0.0433	110-102 UNM	2B	0.0331	0.0367	0.0369	0.0380	0.0440	
0.047	00-90 NS	2B	0.0398	0.0414	0.0398	0.0414	0.047	
	00-96 NS	2B	0.0402	0.0418	0.0402	0.0418	0.047	
0.0472	120-102 UNM	2B	0.0370	0.0406	0.0409	0.0420	0.0480	
0.0551	140-85 UNM	2B	0.0428	0.0471	0.0474	0.0487	0.0560	
0.06	0-80 UNF	2B	0.0465	0.0514	0.0519	0.0542	0.06	
		3B	0.0465	0.0514	0.0519	0.0536	0.06	
	0-72 UNF	2B	0.045	0.505	0.051	0.0535	0.06	
		3B	0.045	0.505	0.051	0.0529	0.06	
0.073	1-64 UNC	2B	0.0561	0.0623	0.0629	0.0655	0.073	
		3B	0.0561	0.0623	0.0629	0.0648	0.073	
	1-72 UNF	2B	0.058	0.0635	0.064	0.0665	0.073	
		3B	0.058	0.0635	0.064	0.0659	0.073	
0.086	2-56 UNC	2B	0.0667	0.0737	0.0744	0.0772	0.086	
		3B	0.0667	0.0737	0.0744	0.0765	0.086	
	2-64 UNF	2B	0.0691	0.0753	0.0759	0.0786	0.086	
		3B	0.0691	0.0753	0.0759	0.0779	0.086	
0.099	3-48 UNC	2B	0.0764	0.0845	0.0855	0.0885	0.099	
		3B	0.0764	0.0845	0.0855	0.0877	0.099	
	3-56 UNF	2B	0.0797	0.0865	0.0874	0.0902	0.099	
		3B	0.0797	0.0865	0.0874	0.0895	0.099	
0.112	4-40 UNC	2B	0.0849	0.0939	0.0958	0.0991	0.112	
		3B	0.0849	0.0939	0.0958	0.0982	0.112	
	4-48 UNF	2B	0.0894	0.0968	0.0985	0.1016	0.112	
		3B	0.0894	0.0968	0.0985	0.1008	0.112	
0.125	5-40 UNC	2B	0.0979	0.1062	0.1088	0.1121	0.125	
		3B	0.0979	0.1062	0.1088	0.1113	0.125	
	5-44 UNF	2B	0.1004	0.1079	0.1102	0.1134	0.125	
		3B	0.1004	0.1079	0.1102	0.1126	0.125	
0.138	6-32 UNC	2B	0.104	0.114	0.1177	0.1214	0.138	
		3B	0.104	0.114	0.1177	0.1204	0.138	
	6-40 UNF	2B	0.111	0.119	0.1218	0.1252	0.138	
		3B	0.111	0.1186	0.1218	0.1243	0.138	
0.164	8-32 UNC	2B	0.13	0.139	0.1437	0.1475	0.164	
		3B	0.13	0.1389	0.1437	0.1465	0.164	
	8-36 UNF	2B	0.134	0.142	0.146	0.1496	0.164	
		3B	0.134	0.1416	0.146	0.1487	0.164	
0.19	10-24 UNC	2B	0.145	0.156	0.1629	0.1672	0.19	

		3B	0.145	0.1555	0.1629	0.1661	0.19
	10-28 UNS	2B	0.151	0.16	0.1668	0.1711	0.19
	10-32 UNF	2B	0.156	0.164	0.1697	0.1736	0.19
		3B	0.156	0.1641	0.1697	0.1726	0.19
	10-36 UNS	2B	0.16	0.166	0.172	0.1759	0.19
	10-40 UNS	2B	0.163	0.169	0.1738	0.1775	0.19
	10-48 UNS	2B	0.167	0.172	0.1765	0.1799	0.19
	10-56 UNS	2B	0.171	0.175	0.1784	0.1816	0.19
0.216	12-24 UNC	2B	0.171	0.181	0.1889	0.1933	0.216
		3B	0.171	0.1807	0.1889	0.1922	0.216
	12-28 UNF	2B	0.177	0.186	0.1928	0.197	0.216
		3B	0.177	0.1857	0.1928	0.1959	0.216
	12-32 UNEF	2B	0.182	0.19	0.1957	0.1998	0.216
		3B	0.182	0.1895	0.1957	0.1988	0.216
	12-36 UNS	2B	0.186	0.192	0.198	0.2019	0.216
	12-40 UNS	2B	0.189	0.195	0.1998	0.2035	0.216
	12-48 UNS	2B	0.193	0.198	0.2025	0.2059	0.216
	12-56 UNS	2B	0.197	0.201	0.2044	0.2076	0.216
0.25	1/4-20 UNC	1B	0.196	0.207	0.2175	0.2248	0.25
		2B	0.196	0.207	0.2175	0.2224	0.25
		3B	0.196	0.2067	0.2175	0.2211	0.25
	1/4-24 UNS	2B	0.205	0.215	0.2229	0.2277	0.25
	1/4-27 UNS	2B	0.21	0.219	0.2259	0.2304	0.25
	1/4-28 UNF	1B	0.211	0.22	0.2268	0.2333	0.25
		2B	0.211	0.22	0.2268	0.2311	0.25
		3B	0.211	0.219	0.2268	0.23	0.25
	1/4-32 UNEF	2B	0.216	0.224	0.2297	0.2339	0.25
		3B	0.216	0.2229	0.2297	0.2328	0.25
	1/4-36 UNS	2B	0.22	0.226	0.232	0.236	0.25
	1/4-40 UNS	2B	0.223	0.229	0.2338	0.2376	0.25
	1/4-48 UNS	2B	0.227	0.232	0.2365	0.2401	0.25
	1/4-56 UNS	2B	0.231	0.235	0.2384	0.2417	0.25
0.3125	5/16-18 UNC	1B	0.252	0.265	0.2764	0.2843	0.3125
		2B	0.252	0.265	0.2764	0.2817	0.3125
		3B	0.252	0.263	0.2764	0.2803	0.3125
	5/16-20 UN	2B	0.258	0.27	0.28	0.2852	0.3125
		3B	0.258	0.268	0.28	0.2839	0.3125
	5/16-24 UNF	1B	0.267	0.277	0.2854	0.2925	0.3125
		2B	0.267	0.277	0.2854	0.2902	0.3125
		3B	0.267	0.2754	0.2854	0.289	0.3125
	5/16-27 UNS	2B	0.272	0.281	0.2884	0.2929	0.3125
	5/16-28 UN	2B	0.274	0.282	0.2893	0.2937	0.3125
		3B	0.274	0.2807	0.2893	0.2926	0.3125
	5/16-32 UNEF	2B	0.279	0.286	0.2922	0.2964	0.3125
		3B	0.279	0.2847	0.2922	0.2953	0.3125
	5/16-36 UNS	2B	0.282	0.289	0.2945	0.2985	0.3125
	5/16-40 UNS	2B	0.285	0.291	0.2963	0.3001	0.3125
	5/16-48 UNS	2B	0.29	0.295	0.299	0.3026	0.3125
0.375	3/8-16 UNC	1B	0.307	0.321	0.3344	0.3429	0.375
		2B	0.307	0.321	0.3344	0.3401	0.375
		3B	0.307	0.3182	0.3344	0.3387	0.375
	3/8-18 UNS	2B	0.315	0.328	0.3389	0.3445	0.375
	3/8-20 UN	2B	0.321	0.332	0.3425	0.3479	0.375
		3B	0.321	0.3297	0.3425	0.3465	0.375
	3/8-24 UNF	1B	0.33	0.34	0.3479	0.3553	0.375
		2B	0.33	0.34	0.3479	0.3528	0.375

	3/8-24 UNF	3B	0.33	0.3372	0.3479	0.3516	0.375
	3/8-27 UNS	2B	0.335	0.344	0.3509	0.3556	0.375
	3/8-28 UN	2B	0.336	0.345	0.3518	0.3564	0.375
		3B	0.336	0.3426	0.3518	0.3553	0.375
	3/8-32 UNEF	2B	0.341	0.349	0.3547	0.3591	0.375
		3B	0.341	0.3469	0.3547	0.358	0.375
	3/8-36 UNS	2B	0.345	0.352	0.357	0.3612	0.375
	3/8-40 UNS	2B	0.348	0.354	0.3588	0.3628	0.375
0.39	0.390-27 UNS	2B	0.35	0.359	0.3659	0.3706	0.39
0.4375	7/16-14 UNC	1B	0.36	0.376	0.3911	0.4003	0.4375
		2B	0.36	0.376	0.3911	0.3972	0.4375
		3B	0.36	0.3717	0.3911	0.3957	0.4375
	7/16-16 UN	2B	0.37	0.384	0.3969	0.4028	0.4375
		3B	0.37	0.38	0.3969	0.4014	0.4375
	7/16-18 UNS	2B	0.377	0.39	0.4014	0.407	0.4375
	7/16-20 UNF	1B	0.383	0.395	0.405	0.4131	0.4375
		2B	0.383	0.395	0.405	0.4104	0.4375
		3B	0.383	0.3916	0.405	0.4091	0.4375
	7/16-24 UNS	2B	0.392	0.402	0.4104	0.4153	0.4375
	7/16-27 UNS	2B	0.397	0.406	0.4134	0.4181	0.4375
	7/16-28 UNEF	2B	0.399	0.407	0.4143	0.4189	0.4375
		3B	0.399	0.4051	0.4143	0.4178	0.4375
	7/16-32 UN	2B	0.404	0.411	0.4172	0.4216	0.4375
		3B	0.404	0.4094	0.4172	0.4205	0.4375
0.5	1/2-12 UNS	2B	0.41	0.428	0.4459	0.4529	0.5
		3B	0.41	0.4223	0.4459	0.4511	0.5
	1/2-13 UNC	1B	0.417	0.434	0.45	0.4597	0.5
		2B	0.417	0.434	0.45	0.4565	0.5
		3B	0.417	0.4284	0.45	0.4548	0.5
	1/2-14 UNS	2B	0.423	0.438	0.4536	0.4601	0.5
	1/2-16 UN	2B	0.432	0.446	0.4594	0.4655	0.5
		3B	0.432	0.4419	0.4594	0.464	0.5
	1/2-18 UNS	2B	0.44	0.453	0.4639	0.4697	0.5
	1/2-20 UNF	1B	0.446	0.457	0.4675	0.4759	0.5
		2B	0.446	0.457	0.4675	0.4731	0.5
		3B	0.446	0.4537	0.4675	0.4717	0.5
	1/2-24 UNS	2B	0.455	0.465	0.4729	0.478	0.5
	1/2-27 UNS	2B	0.46	0.469	0.4759	0.4807	0.5
	1/2-28 UNEF	2B	0.461	0.47	0.4768	0.4816	0.5
		3B	0.461	0.4676	0.4768	0.4804	0.5
	1/2-32 UN	2B	0.466	0.474	0.4797	0.4842	0.5
		3B	0.466	0.4719	0.4797	0.4831	0.5
0.5625	9/16-12 UNC	1B	0.472	0.49	0.5084	0.5186	0.5625
		2B	0.472	0.49	0.5084	0.5152	0.5625
		3B	0.472	0.4843	0.5084	0.5135	0.5625
	9/16-14 UNS	2B	0.485	0.501	0.5161	0.5226	0.5625
	9/16-16 UN	2B	0.495	0.509	0.5219	0.528	0.5625
		3B	0.495	0.504	0.5219	0.5265	0.5625
	9/16-18 UNF	1B	0.502	0.515	0.5264	0.5353	0.5625
		2B	0.502	0.515	0.5264	0.5323	0.5625
		3B	0.502	0.5106	0.5264	0.5308	0.5625
	9/16-20 UN	2B	0.508	0.52	0.53	0.5355	0.5625
		3B	0.508	0.5162	0.53	0.5341	0.5625
	9/16-24 UNEF	2B	0.517	0.527	0.5354	0.5405	0.5625
		3B	0.517	0.5244	0.5354	0.5392	0.5625
	9/16-27 UNS	2B	0.522	0.531	0.5384	0.5432	0.5625

	9/16-28 UN	2B	0.524	0.532	0.5393	0.5441	0.5625
		3B	0.524	0.5301	0.5393	0.5429	0.5625
	9/16-32 UN	2B	0.529	0.536	0.5422	0.5467	0.5625
		3B	0.529	0.5344	0.5422	0.5456	0.5625
0.625	5/8-11 UNC	1B	0.527	0.546	0.566	0.5767	0.625
		2B	0.527	0.546	0.566	0.5732	0.625
		3B	0.527	0.5391	0.566	0.5714	0.625
	5/8-12 UN	2B	0.535	0.553	0.5709	0.578	0.625
		3B	0.535	0.5463	0.5709	0.5762	0.625
	5/8-14 UNS	2B	0.548	0.564	0.5786	0.5852	0.625
	5/8-16 UN	2B	0.557	0.571	0.5844	0.5906	0.625
		3B	0.557	0.5662	0.5844	0.589	0.625
	5/8-18 UNF	1B	0.565	0.578	0.5889	0.598	0.625
		2B	0.565	0.578	0.5889	0.5949	0.625
		3B	0.565	0.573	0.5889	0.5934	0.625
	5/8-20 UN	2B	0.571	0.582	0.5925	0.5981	0.625
		3B	0.571	0.5787	0.5925	0.5967	0.625
	5/8-24 UNEF	2B	0.58	0.59	0.5979	0.6031	0.625
		3B	0.58	0.5869	0.5979	0.6018	0.625
	5/8-27 UNS	2B	0.585	0.594	0.6009	0.6059	0.625
	5/8-28 UN	2B	0.586	0.595	0.6018	0.6067	0.625
		3B	0.586	0.5926	0.6018	0.6055	0.625
	5/8-32 UN	2B	0.591	0.599	0.6047	0.6093	0.625
		3B	0.591	0.5969	0.6047	0.6082	0.625
0.6875	11/16-12 UN	2B	0.597	0.615	0.6334	0.6405	0.6875
		3B	0.597	0.6085	0.6334	0.6387	0.6875
	11/16-16 UN	2B	0.62	0.634	0.6469	0.6531	0.6875
		3B	0.62	0.6284	0.6469	0.6515	0.6875
	11/16-20 UN	2B	0.633	0.645	0.655	0.6606	0.6875
		3B	0.633	0.6412	0.655	0.6592	0.6875
	11/16-24 UNEF	2B	0.642	0.652	0.6604	0.6656	0.6875
		3B	0.642	0.6494	0.6604	0.6643	0.6875
	11/16-28 UN	2B	0.649	0.657	0.6643	0.6692	0.6875
		3B	0.649	0.6551	0.6643	0.668	0.6875
	11/16-32 UN	2B	0.654	0.661	0.6672	0.6718	0.6875
		3B	0.654	0.6594	0.6672	0.6707	0.6875
0.75	3/4-10 UNC	1B	0.642	0.663	0.685	0.6965	0.75
		2B	0.642	0.663	0.685	0.6927	0.75
		3B	0.642	0.6545	0.685	0.6907	0.75
	3/4-12 UN	2B	0.66	0.678	0.6959	0.7031	0.75
		3B	0.66	0.6707	0.6959	0.7013	0.75
	3/4-14 UNS	2B	0.673	0.688	0.7036	0.7103	0.75
	3/4-16 UNF	1B	0.682	0.696	0.7094	0.7192	0.75
		2B	0.682	0.696	0.7094	0.7159	0.75
		3B	0.682	0.6908	0.7094	0.7143	0.75
	3/4-18 UNS	2B	0.69	0.703	0.7139	0.7199	0.75
	3/4-20 UNEF	2B	0.696	0.707	0.7175	0.7232	0.75
		3B	0.696	0.7037	0.7175	0.7218	0.75
0.75	3/4-24 UNS	2B	0.705	0.715	0.7229	0.7282	0.75
	3/4-24 UNS	2B	0.71	0.719	0.7259	0.731	0.75
	3/4-28 UN	2B	0.711	0.72	0.7268	0.7318	0.75
		3B	0.711	0.7176	0.7268	0.7305	0.75
	3/4-32 UN	2B	0.716	0.724	0.7297	0.7344	0.75
		3B	0.716	0.7219	0.7297	0.7333	0.75
0.8125	13/16-10 UNC	2B	0.7045	0.7255	0.7475	0.759	0.8125
		3B	0.7045	0.7255	0.7475	0.7552	0.8125

	13/16-12 UN	2B	0.722	0.74	0.7584	0.7656	0.8125
		3B	0.722	0.7329	0.7584	0.7638	0.8125
	13/16-16 UN	2B	0.745	0.759	0.7719	0.7782	0.8125
		3B	0.745	0.7533	0.7719	0.7766	0.8125
	13/16-20 UNEF	2B	0.758	0.77	0.78	0.7857	0.8125
		3B	0.758	0.7662	0.78	0.7843	0.8125
	13/16-28 UN	2B	0.774	0.782	0.7893	0.7943	0.8125
		3B	0.774	0.7801	0.7893	0.793	0.8125
	13/16-32 UN	2B	0.779	0.786	0.7922	0.7969	0.8125
		3B	0.779	0.7844	0.7922	0.7958	0.8125
0.875	7/8-9 UNC	1B	0.755	0.778	0.8028	0.8151	0.875
		2B	0.755	0.778	0.8028	0.811	0.875
		3B	0.755	0.7681	0.8028	0.8089	0.875
	7/8-10 UNS	2B	0.767	0.788	0.81	0.8178	0.875
	7/8-12 UN	2B	0.785	0.803	0.8209	0.8281	0.875
		3B	0.785	0.7948	0.8209	0.8263	0.875
	7/8-14 UNF	1B	0.798	0.814	0.8286	0.8392	0.875
		2B	0.798	0.814	0.8286	0.8356	0.875
		3B	0.798	0.8068	0.8286	0.8339	0.875
	7/8-16 UN	2B	0.807	0.821	0.8344	0.8407	0.875
		3B	0.807	0.8158	0.8344	0.8391	0.875
	7/8-18 UNS	2B	0.815	0.828	0.8389	0.8449	0.875
	7/8-20 UNEF	2B	0.821	0.832	0.8425	0.8482	0.875
		3B	0.821	0.8287	0.8425	0.8468	0.875
	7/8-24 UNS	2B	0.83	0.84	0.8479	0.8532	0.875
	7/8-27 UNS	2B	0.835	0.844	0.8509	0.856	0.875
	7/8-28 UN	2B	0.836	0.845	0.8518	0.8568	0.875
		3B	0.836	0.8426	0.8518	0.8555	0.875
	7/8-32 UN	2B	0.841	0.849	0.8547	0.8594	0.875
		3B	0.841	0.8469	0.8547	0.8583	0.875
0.9375	15/16-9 UNC	2B	0.8175	0.8405	0.8653	0.8735	0.9375
		3B	0.8175	0.8306	0.8653	0.8714	0.9375
	15/16-12 UN	2B	0.847	0.865	0.8834	0.8908	0.9375
		3B	0.847	0.8575	0.8834	0.8889	0.9375
	15/16-16 UN	2B	0.87	0.884	0.8969	0.9034	0.9375
		3B	0.87	0.8783	0.8969	0.9018	0.9375
	15/16-20 UNEF	2B	0.883	0.895	0.905	0.9109	0.9375
		3B	0.883	0.8912	0.905	0.9094	0.9375
	15/16-28 UN	2B	0.899	0.907	0.9143	0.9195	0.9375
		3B	0.899	0.9051	0.9143	0.9182	0.9375
	15/16-32 UN	2B	0.904	0.911	0.9172	0.9221	0.9375
		3B	0.904	0.9094	0.9172	0.9209	0.9375
1	1-8 UNC	1B	0.865	0.89	0.9188	0.932	1
		2B	0.865	0.89	0.9188	0.9276	1
		3B	0.865	0.8797	0.9188	0.9254	1
	1-10 UNS	2B	0.892	0.913	0.935	0.943	1
	1-12 UNF	1B	0.91	0.928	0.9459	0.9573	1
		2B	0.91	0.928	0.9459	0.9535	1
		3B	0.91	0.9198	0.9459	0.9516	1
	1-14 UNS	1B	0.923	0.938	0.9536	0.9645	1
		2B	0.923	0.938	0.9536	0.9609	1
		3B	0.923	0.9315	0.9536	0.959	1
	1-16 UN	2B	0.932	0.946	0.9594	0.9659	1
		3B	0.932	0.9408	0.9594	0.9643	1
	1-18 UNS	2B	0.94	0.953	0.9639	0.9701	1
	1-20 UNEF	2B	0.946	0.957	0.9675	0.9734	1

		3B	0.946	0.9537	0.9675	0.9719	1
	1-24 UNS	2B	0.955	0.965	0.9729	0.9784	1
	1-27 UNS	2B	0.96	0.969	0.9759	0.9811	1
	1-28 UN	2B	0.961	0.97	0.9768	0.982	1
		3B	0.961	0.9676	0.9768	0.9807	1
	1-32 UN	2B	0.966	0.974	0.9797	0.9846	1
		3B	0.966	0.9719	0.9797	0.9834	1
1.0625	1 1/16-8 UN	2B	0.927	0.952	0.9813	0.9902	1.0625
		3B	0.927	0.9422	0.9813	0.988	1.0625
	1 1/16-8 UNC	2B	0.9115	0.9365	0.9658	0.9747	1.0625
	1 1/16-12 UNC	2B	0.972	0.99	1.0084	1.0158	1.0625
		3B	0.972	0.9823	1.0084	1.0139	1.0625
	1 1/16-16 UNC	2B	0.995	1.009	1.0219	1.0284	1.0625
		3B	0.995	1.0033	1.0219	1.0268	1.0625
	1 1/16-18 UNEF	2B	1.002	1.015	1.0264	1.0326	1.0625
		3B	1.002	1.0105	1.0264	1.031	1.0625
	1 1/16-20 UN	2B	1.008	1.02	1.03	1.0359	1.0625
		3B	1.008	1.0162	1.03	1.0344	1.0625
	1 1/16-28 UN	2B	1.024	1.032	1.0393	1.0445	1.0625
		3B	1.024	1.0301	1.0393	1.0432	1.0625
1.125	1 1/8-7 UNC	1B	0.97	0.998	1.0322	1.0463	1.125
		2B	0.97	0.998	1.0322	1.0416	1.125
		3B	0.97	0.9875	1.0322	1.0393	1.125
	1 1/8-8 UN	2B	0.99	1.015	1.0438	1.0528	1.125
		3B	0.99	1.0047	1.0438	1.0505	1.125
	1 1/8-8 UNC	2B	0.9690	0.9940	1.0228	1.0318	1.1250
	1 1/8-10 UNS	2B	1.017	1.038	1.06	1.068	1.125
	1 1/8-12 UNF	1B	1.035	1.053	1.0709	1.0826	1.125
		2B	1.035	1.053	1.0709	1.0787	1.125
		3B	1.035	1.0448	1.0709	1.0768	1.125
	1 1/8-14 UNS	2B	1.048	1.064	1.0786	1.0855	1.125
	1 1/8-16 UN	2B	1.057	1.071	1.0844	1.0909	1.125
		3B	1.057	1.0658	1.0844	1.0893	1.125
	1 1/8-18 UNEF	2B	1.065	1.078	1.0889	1.0951	1.125
		3B	1.065	1.073	1.0889	1.0935	1.125
	1 1/8-20 UN	2B	1.071	1.082	1.0925	1.0984	1.125
		3B	1.071	1.0787	1.0925	1.0969	1.125
	1 1/8-24 UNS	2B	1.08	1.09	1.0979	1.1034	1.125
	1 1/8-28 UN	2B	1.086	1.095	1.1018	1.107	1.125
		3B	1.086	1.0926	1.1018	1.1057	1.125
1.1875	1 3/16-8 UN	2B	1.052	1.077	1.1063	1.1154	1.1875
		3B	1.052	1.0672	1.1063	1.1131	1.1875
	1 3/16-12 UN	2B	1.097	1.115	1.1334	1.1409	1.1875
		3B	1.097	1.1073	1.1334	1.139	1.1875
	1 3/16-16 UN	2B	1.12	1.134	1.1469	1.1535	1.1875
		3B	1.12	1.1283	1.1469	1.1519	1.1875
	1 3/16-18 UNEF	2B	1.127	1.14	1.1514	1.1577	1.1875
		3B	1.127	1.1355	1.1514	1.1561	1.1875
	1 3/16-20 UN	2B	1.133	1.145	1.155	1.1611	1.1875
		3B	1.133	1.1412	1.155	1.1595	1.1875
	1 3/16-28 UN	2B	1.149	1.157	1.1643	1.1696	1.1875
		3B	1.149	1.1551	1.1643	1.1683	1.1875
1.25	1 1/4-7 UNC	1B	1.095	1.123	1.1572	1.1716	1.25
		2B	1.095	1.123	1.1572	1.1668	1.25
		3B	1.095	1.1125	1.1572	1.1644	1.25
	1 1/4-8 UN	2B	1.115	1.14	1.1688	1.178	1.25

		3B	1.115	1.1297	1.1688	1.1757	1.25
	1 1/4-8 UNC	2B	1.0648	1.0898	1.1186	1.1278	1.2500
	1 1/4-10 UNS	2B	1.142	1.163	1.185	1.1932	1.25
	1 1/4-12 UNF	1B	1.16	1.178	1.1959	1.2079	1.25
		2B	1.16	1.178	1.1959	1.2039	1.25
		3B	1.16	1.1698	1.1959	1.2019	1.25
	1 1/4-14 UNS	2B	1.173	1.188	1.2036	1.2106	1.25
	1 1/4-16 UN	2B	1.182	1.196	1.2094	1.216	1.25
		3B	1.182	1.1908	1.2094	1.2144	1.25
	1 1/4-18 UNEF	2B	1.19	1.203	1.2139	1.2202	1.25
		3B	1.19	1.198	1.2139	1.2186	1.25
	1 1/4-20 UN	2B	1.196	1.207	1.2175	1.2236	1.25
		3B	1.196	1.2037	1.2175	1.222	1.25
	1 1/4-24 UNS	2B	1.205	1.215	1.2229	1.2285	1.25
	1 1/4-28 UN	2B	1.211	1.22	1.2268	1.2321	1.25
		3B	1.211	1.2176	1.2268	1.2308	1.25
1.3125	1 5/16-8 UN	2B	1.177	1.202	1.2313	1.2405	1.3125
		3B	1.177	1.1922	1.2313	1.2382	1.3125
	1 5/16-12 UN	2B	1.222	1.24	1.2584	1.2659	1.3125
		3B	1.222	1.2323	1.2584	1.264	1.3125
	1 5/16-16 UN	2B	1.245	1.259	1.2719	1.2785	1.3125
		3B	1.245	1.2533	1.2719	1.2769	1.3125
	1 5/16-18 UNEF	2B	1.252	1.265	1.2764	1.2827	1.3125
		3B	1.252	1.2605	1.2764	1.2811	1.3125
	1 5/16-20 UN	2B	1.258	1.27	1.28	1.2861	1.3125
		3B	1.258	1.2662	1.28	1.2845	1.3125
	1 5/16-28 UN	2B	1.274	1.282	1.2893	1.2946	1.3125
		3B	1.274	1.2801	1.2893	1.2933	1.3125
1.375	1 3/8-6 UNC	1B	1.195	1.225	1.2667	1.2822	1.375
		2B	1.195	1.225	1.2667	1.2771	1.375
		3B	1.195	1.2146	1.2667	1.2745	1.375
	1 3/8-8 UN	2B	1.24	1.265	1.2938	1.3031	1.375
		3B	1.24	1.2547	1.2938	1.3008	1.375
	1 3/8-10 UNS	2B	1.267	1.288	1.31	1.3182	1.375
	1 3/8-12 UNF	1B	1.285	1.303	1.3209	1.3332	1.375
		2B	1.285	1.303	1.3209	1.3291	1.375
		3B	1.285	1.2948	1.3209	1.327	1.375
	1 3/8-14 UNS	2B	1.298	1.314	1.3286	1.3356	1.375
	1 3/8-16 UN	2B	1.307	1.321	1.3344	1.341	1.375
		3B	1.307	1.3158	1.3344	1.3394	1.375
	1 3/8-18 UNEF	2B	1.315	1.328	1.3389	1.3452	1.375
		3B	1.315	1.323	1.3389	1.3436	1.375
	1 3/8-20 UN	2B	1.321	1.332	1.3425	1.3486	1.375
		3B	1.321	1.3287	1.3425	1.347	1.375
	1 3/8-24 UNS	2B	1.33	1.34	1.3479	1.3535	1.375
	1 3/8-28 UN	2B	1.336	1.345	1.3518	1.3571	1.375
		3B	1.336	1.3426	1.3518	1.3558	1.375
1.4375	1 7/16-6 UN	2B	1.257	1.288	1.3292	1.3396	1.4375
		3B	1.257	1.2771	1.3292	1.337	1.4375
	1 7/16-8 UN	2B	1.302	1.327	1.3563	1.3657	1.4375
		3B	1.302	1.3172	1.3563	1.3634	1.4375
	1 7/16-12 UN	2B	1.347	1.365	1.3834	1.391	1.4375
		3B	1.347	1.3573	1.3834	1.3891	1.4375
	1 7/16-16 UN	2B	1.37	1.384	1.3969	1.4037	1.4375
		3B	1.37	1.3783	1.3969	1.402	1.4375
	1 7/16-18 UNEF	2B	1.377	1.39	1.4014	1.4079	1.4375

		3B	1.377	1.3855	1.4014	1.4062	1.4375
	1 7/16-20 UN	2B	1.383	1.395	1.405	1.4112	1.4375
		3B	1.383	1.3912	1.405	1.4096	1.4375
	1 7/16-28 UN	2B	1.399	1.407	1.4143	1.4198	1.4375
		3B	1.399	1.4051	1.4143	1.4184	1.4375
1.5	1 1/2-6 UNC	1B	1.32	1.35	1.3917	1.4075	1.5
		2B	1.32	1.35	1.3917	1.4022	1.5
		3B	1.32	1.3396	1.3917	1.3996	1.5
	1 1/2-8 UN	2B	1.365	1.39	1.4188	1.4283	1.5
		3B	1.365	1.3797	1.4188	1.4259	1.5
	1 1/2-10 UNS	2B	1.392	1.413	1.435	1.4433	1.5
	1 1/2-12 UNF	1B	1.41	1.428	1.4459	1.4584	1.5
		2B	1.41	1.428	1.4459	1.4542	1.5
		3B	1.41	1.4198	1.4459	1.4522	1.5
	1 1/2-14 UNS	2B	1.423	1.438	1.4536	1.4608	1.5
	1 1/2-16 UN	2B	1.432	1.446	1.4594	1.4662	1.5
		3B	1.432	1.4408	1.4594	1.4645	1.5
	1 1/2-18 UNEF	2B	1.44	1.452	1.4639	1.4704	1.5
		3B	1.44	1.448	1.4639	1.4687	1.5
	1 1/2-20 UN	2B	1.446	1.457	1.4675	1.4737	1.5
		3B	1.446	1.4537	1.4675	1.4721	1.5
	1 1/2-24 UNS	2B	1.455	1.465	1.4729	1.4787	1.5
	1 1/2-28 UN	2B	1.461	1.47	1.4768	1.4823	1.5
		3B	1.461	1.4676	1.4768	1.4809	1.5
	1 9/16-6 UN	2B	1.382	1.413	1.4542	1.4648	1.5625
		3B	1.382	1.4021	1.4542	1.4622	1.5625
1.5625	1 9/16-8 UN	2B	1.427	1.452	1.4813	1.4909	1.5625
		3B	1.427	1.4422	1.4813	1.4885	1.5625
	1 9/16-12 UN	2B	1.472	1.49	1.5084	1.516	1.5625
		3B	1.472	1.4823	1.5084	1.5141	1.5625
	1 9/16-16 UN	2B	1.495	1.509	1.5219	1.5287	1.5625
		3B	1.495	1.5033	1.5219	1.527	1.5625
	1 9/16-18 UNEF	2B	1.502	1.515	1.5264	1.5329	1.5625
		3B	1.502	1.5105	1.5264	1.5312	1.5625
	1 9/16-20 UN	2B	1.508	1.52	1.53	1.5362	1.5625
		3B	1.508	1.5162	1.53	1.5346	1.5625
1.625	1 5/8-6 UN	2B	1.445	1.475	1.5167	1.5274	1.625
		3B	1.445	1.4646	1.5167	1.5247	1.625
	1 5/8-8 UN	2B	1.49	1.515	1.5438	1.5535	1.625
		3B	1.49	1.5047	1.5438	1.551	1.625
	1 5/8-10 UNS	2B	1.517	1.538	1.56	1.5683	1.625
	1 5/8-12 UN	2B	1.535	1.553	1.5709	1.5785	1.625
		3B	1.535	1.5448	1.5709	1.5766	1.625
	1 5/8-14 UNS	2B	1.548	1.564	1.5786	1.5858	1.625
	1 5/8-16 UN	2B	1.557	1.571	1.5844	1.5912	1.625
		3B	1.557	1.5658	1.5844	1.5895	1.625
	1 5/8-18 UNEF	2B	1.565	1.578	1.5889	1.5954	1.625
		3B	1.565	1.573	1.5889	1.5937	1.625
	1 5/8-20 UN	2B	1.571	1.582	1.5925	1.5987	1.625
		3B	1.571	1.5787	1.5925	1.5971	1.625
	1 5/8-24 UNS	2B	1.58	1.59	1.5979	1.6037	1.625
1.6875	1 11/16-6 UN	2B	1.507	1.538	1.5792	1.59	1.6875
		3B	1.507	1.5271	1.5792	1.5873	1.6875
	1 11/16-8 UN	2B	1.552	1.577	1.6063	1.616	1.6875
		3B	1.552	1.5672	1.6063	1.6136	1.6875
	1 11/16-12 UN	2B	1.597	1.615	1.6334	1.6412	1.6875

		3B	1.597	1.6073	1.6334	1.6392	1.6875
	1 11/16-16 UN	2B	1.62	1.634	1.6469	1.6538	1.6875
		3B	1.62	1.6283	1.6469	1.6521	1.6875
	1 11/16-18 UNEF	2B	1.627	1.64	1.6514	1.658	1.6875
		3B	1.627	1.6355	1.6514	1.6563	1.6875
	1 11/16-20 UN	2B	1.633	1.645	1.655	1.6613	1.6875
		3B	1.633	1.6412	1.655	1.6597	1.6875
1.75	1 3/4-5 UNC	1B	1.534	1.568	1.6201	1.6375	1.75
		2B	1.534	1.568	1.6201	1.6317	1.75
		3B	1.534	1.5575	1.6201	1.6288	1.75
	1 3/4-6 UN	2B	1.57	1.6	1.6417	1.6525	1.75
		3B	1.57	1.5896	1.6417	1.6498	1.75
	1 3/4-8 UN	2B	1.615	1.64	1.6688	1.6786	1.75
		3B	1.615	1.6297	1.6688	1.6762	1.75
	1 3/4-10 UNS	2B	1.642	1.663	1.685	1.6934	1.75
	1 3/4-12 UN	2B	1.66	1.678	1.6959	1.7037	1.75
		3B	1.66	1.6698	1.6959	1.7017	1.75
	1 3/4-14 UNS	2B	1.673	1.688	1.7036	1.7109	1.75
	1 3/4-16 UN	2B	1.682	1.696	1.7094	1.7163	1.75
		3B	1.682	1.6908	1.7094	1.7146	1.75
	1 3/4-18 UNS	2B	1.69	1.703	1.7139	1.7205	1.75
	1 3/4-20 UN	2B	1.696	1.707	1.7175	1.7238	1.75
		3B	1.696	1.7037	1.7175	1.7222	1.75
1.8125	1 13/16-6 UN	2B	1.632	1.663	1.7042	1.7151	1.8125
		3B	1.632	1.6521	1.7042	1.7124	1.8125
	1 13/16-8 UN	2B	1.677	1.702	1.7313	1.7412	1.8125
		3B	1.677	1.6922	1.7313	1.7387	1.8125
	1 13/16-12 UN	2B	1.722	1.74	1.7584	1.7662	1.8125
		3B	1.722	1.7323	1.7584	1.7642	1.8125
	1 13/16-16 UN	2B	1.745	1.759	1.7719	1.7788	1.8125
		3B	1.745	1.7533	1.7719	1.7771	1.8125
	1 13/16-20 UN	2B	1.758	1.77	1.78	1.7863	1.8125
		3B	1.758	1.7662	1.78	1.7847	1.8125
1.875	1 7/8-6 UN	2B	1.695	1.725	1.7667	1.7777	1.875
		3B	1.695	1.7146	1.7667	1.7749	1.875
	1 7/8-8 UN	2B	1.74	1.765	1.7938	1.8038	1.875
		3B	1.74	1.7547	1.7938	1.8013	1.875
	1 7/8-10 UNS	2B	1.767	1.788	1.81	1.8184	1.875
	1 7/8-12 UN	2B	1.785	1.803	1.8209	1.8287	1.875
		3B	1.785	1.7948	1.8209	1.8267	1.875
	1 7/8-14 UNS	2B	1.798	1.814	1.8286	1.8359	1.875
	1 7/8-16 UN	2B	1.807	1.821	1.8344	1.8413	1.875
		3B	1.807	1.8158	1.8344	1.8396	1.875
	1 7/8-18 UNS	2B	1.815	1.828	1.8389	1.8455	1.875
	1 7/8-20 UN	2B	1.821	1.832	1.8425	1.8488	1.875
		3B	1.821	1.8287	1.8425	1.8472	1.875
1.9375	1 15/16-6 UN	2B	1.757	1.788	1.8292	1.8403	1.9375
		3B	1.757	1.7771	1.8292	1.8375	1.9375
	1 15/16-8 UN	2B	1.802	1.827	1.8563	1.8663	1.9375
		3B	1.802	1.8172	1.8563	1.8638	1.9375
	1 15/16-12 UN	2B	1.847	1.865	1.8834	1.8913	1.9375
		3B	1.847	1.8573	1.8834	1.8893	1.9375
	1 15/16-16 UN	2B	1.87	1.884	1.8969	1.9039	1.9375
		3B	1.87	1.8783	1.8969	1.9021	1.9375
	1 15/16-20 UN	2B	1.883	1.895	1.905	1.9114	1.9375
		3B	1.883	1.8912	1.905	1.9098	1.9375

2	2-4.5 UNC	1B	1.759	1.795	1.8557	1.8743	2
		2B	1.759	1.795	1.8557	1.8681	2
		3B	1.759	1.7861	1.8557	1.865	2
	2-6 UN	2B	1.82	1.85	1.8917	1.9028	2
		3B	1.82	1.8396	1.8917	1.9	2
	2-8 UN	2B	1.865	1.89	1.9188	1.9289	2
		3B	1.865	1.8797	1.9188	1.9264	2
	2-10 UNS	2B	1.892	1.913	1.935	1.9435	2
	2-12 UN	2B	1.91	1.928	1.9459	1.9538	2
		3B	1.91	1.9198	1.9459	1.9518	2
	2-14 UNS	2B	1.923	1.938	1.9536	1.961	2
	2-16 UN	2B	1.932	1.946	1.9594	1.9664	2
		3B	1.932	1.9408	1.9594	1.9646	2
	2-18 UNS	2B	1.94	1.953	1.9639	1.9706	2
	2-20 UN	2B	1.946	1.957	1.9675	1.9739	2
		3B	1.946	1.9537	1.9675	1.9723	2
2.0625	2 1/16-16 UNS	2B	1.995	2.009	2.0219	2.0289	2.0625
		3B	1.995	2.0033	2.0219	2.0271	2.0625
2.125	2 1/8-6 UN	2B	1.945	1.975	2.0167	2.028	2.125
		3B	1.945	1.9646	2.0167	2.0251	2.125
	2 1/8-8 UN	2B	1.99	2.015	2.0438	2.054	2.125
		3B	1.99	2.0047	2.0438	2.0515	2.125
	2 1/8-12 UN	2B	2.035	2.053	2.0709	2.0788	2.125
		3B	2.035	2.0448	2.0709	2.0768	2.125
	2 1/8-16 UN	2B	2.057	2.071	2.0844	2.0914	2.125
		3B	2.057	2.0658	2.0844	2.0896	2.125
	2 1/8-20 UN	2B	2.071	2.082	2.0925	2.0989	2.125
		3B	2.071	2.0787	2.0925	2.0973	2.125
2.1875	2 3/16-16 UNS	2B	2.12	2.134	2.1469	2.1539	2.1875
		3B	2.12	2.1283	2.1469	2.1521	2.1875
2.25	2 1/4-4.5 UNC	1B	2.009	2.045	2.1057	2.1247	2.25
		2B	2.009	2.045	2.1057	2.1183	2.25
		3B	2.009	2.0361	2.1057	2.1152	2.25
	2 1/4-6 UN	2B	2.07	2.1	2.1417	2.1531	2.25
		3B	2.07	2.0896	2.1417	2.1502	2.25
	2 1/4-8 UN	2B	2.115	2.14	2.1688	2.1792	2.25
		3B	2.115	2.1297	2.1688	2.1766	2.25
	2 1/4-10 UNS	2B	2.142	2.163	2.185	2.1935	2.25
	2 1/4-12 UN	2B	2.16	2.178	2.1959	2.2038	2.25
		3B	2.16	2.1698	2.1959	2.2018	2.25
	2 1/4-14 UNS	2B	2.173	2.188	2.2036	2.211	2.25
	2 1/4-16 UN	2B	2.182	2.196	2.2094	2.2164	2.25
		3B	2.182	2.1908	2.2094	2.2146	2.25
	2 1/4-18 UNS	2B	2.19	2.203	2.2139	2.2206	2.25
	2 1/4-20 UN	2B	2.196	2.207	2.2175	2.2239	2.25
		3B	2.196	2.2037	2.2175	2.2223	2.25
2.3125	2 5/16-16 UNS	2B	2.245	2.259	2.2719	2.2791	2.3125
		3B	2.245	2.2533	2.2719	2.2773	2.3125
2.375	2 3/8-6 UN	2B	2.195	2.226	2.2667	2.2782	2.375
		3B	2.195	2.2146	2.2667	2.2753	2.375
	2 3/8-8 UN	2B	2.24	2.265	2.2938	2.3043	2.375
		3B	2.24	2.2547	2.2938	2.3017	2.375
	2 3/8-12 UN	2B	2.285	2.303	2.3209	2.329	2.375
		3B	2.285	2.2948	2.3209	2.3269	2.375
	2 3/8-16 UN	2B	2.307	2.321	2.3344	2.3416	2.375
		3B	2.307	2.3158	2.3344	2.3398	2.375

	2 3/8-20 UN	2B	2.321	2.332	2.3425	2.3491	2.375
		3B	2.321	2.3287	2.3425	2.3475	2.375
2.4375	2 7/16-16 UNS	2B	2.37	2.384	2.3969	2.4041	2.4375
		3B	2.37	2.3783	2.3969	2.4023	2.4375
2.5	2 1/2-4 UNC	1B	2.229	2.267	2.3376	2.3578	2.5
		2B	2.229	2.267	2.3376	2.3511	2.5
		3B	2.229	2.2594	2.3376	2.3477	2.5
	2 1/2-6 UN	2B	2.32	2.35	2.3917	2.4033	2.5
		3B	2.32	2.3396	2.3917	2.4004	2.5
	2 1/2-8 UN	2B	2.365	2.39	2.4188	2.4294	2.5
		3B	2.365	2.3797	2.4188	2.4268	2.5
	2 1/2-10 UNS	2B	2.392	2.413	2.435	2.4437	2.5
	2 1/2-12 UN	2B	2.41	2.428	2.4459	2.454	2.5
		3B	2.41	2.4198	2.4459	2.4519	2.5
	2 1/2-14 UNS	2B	2.423	2.438	2.4536	2.4612	2.5
	2 1/2-16 UN	2B	2.432	2.446	2.4594	2.4666	2.5
		3B	2.432	2.4408	2.4594	2.4648	2.5
	2 1/2-18 UNS	2B	2.44	2.453	2.4639	2.4708	2.5
	2 1/2-20 UN	2B	2.446	2.457	2.4675	2.4741	2.5
		3B	2.446	2.4537	2.4675	2.4725	2.5
2.625	2 5/8-6 UN	2B	2.445	2.475	2.5167	2.5285	2.625
		3B	2.445	2.4646	2.5167	2.5255	2.625
	2 5/8-8 UN	2B	2.49	2.515	2.5438	2.5545	2.625
		3B	2.49	2.5047	2.5438	2.5518	2.625
	2 5/8-12 UN	2B	2.535	2.553	2.5709	2.579	2.625
		3B	2.535	2.5448	2.5709	2.5769	2.625
	2 5/8-16 UN	2B	2.557	2.571	2.5844	2.5916	2.625
		3B	2.557	2.5658	2.5844	2.5898	2.625
	2 5/8-20 UN	2B	2.571	2.582	2.5925	2.5991	2.625
		3B	2.571	2.5787	2.5925	2.5975	2.625
2.75	2 3/4-4 UNC	1B	2.479	2.517	2.5876	2.6082	2.75
		2B	2.479	2.517	2.5876	2.6013	2.75
		3B	2.479	2.5094	2.5876	2.5979	2.75
	2 3/4-6 UN	2B	2.57	2.6	2.6417	2.6536	2.75
		3B	2.57	2.5896	2.6417	2.6506	2.75
	2 3/4-8 UN	2B	2.615	2.64	2.6688	2.6796	2.75
		3B	2.615	2.6297	2.6688	2.6769	2.75
	2 3/4-10 UNS	2B	2.642	2.663	2.685	2.6937	2.75
	2 3/4-12 UN	2B	2.66	2.678	2.6959	2.704	2.75
		3B	2.66	2.6698	2.6959	2.7019	2.75
	2 3/4-14 UNS	2B	2.673	2.688	2.7036	2.7112	2.75
	2 3/4-16 UN	2B	2.682	2.696	2.7094	2.7166	2.75
		3B	2.682	2.6908	2.7094	2.7148	2.75
	2 3/4-18 UNS	2B	2.69	2.703	2.7139	2.7208	2.75
	2 3/4-20 UN	2B	2.696	2.707	2.7175	2.7241	2.75
		3B	2.696	2.7037	2.7175	2.7225	2.75
2.875	2 7/8-6 UN	2B	2.695	2.725	2.7667	2.7787	2.875
		3B	2.695	2.7146	2.7667	2.7757	2.875
	2 7/8-8 UN	2B	2.74	2.765	2.7938	2.8048	2.875
		3B	2.74	2.7547	2.7938	2.802	2.875
	2 7/8-12 UN	2B	2.785	2.803	2.8209	2.8291	2.875
		3B	2.785	2.7948	2.8209	2.8271	2.875
	2 7/8-16 UN	2B	2.807	2.821	2.8344	2.8417	2.875
		3B	2.807	2.8158	2.8344	2.8399	2.875
	2 7/8-20 UN	2B	2.821	2.832	2.8425	2.8493	2.875
		3B	2.821	2.8287	2.8425	2.8476	2.875

3	3-4 UNC	1B	2.729	2.767	2.8376	2.8585	3
		2B	2.729	2.767	2.8376	2.8515	3
		3B	2.729	2.7594	2.8376	2.848	3
	3-6 UN	2B	2.82	2.85	2.8917	2.9038	3
		3B	2.82	2.8396	2.8917	2.9008	3
	3-8 UN	2B	2.865	2.89	2.9188	2.9299	3
		3B	2.865	2.8797	2.9188	2.9271	3
	3-10 UNS	2B	2.892	2.913	2.935	2.9439	3
	3-12 UN	2B	2.91	2.928	2.9459	2.9541	3
		3B	2.91	2.9198	2.9459	2.9521	3
	3-14 UNS	2B	2.923	2.938	2.9536	2.9613	3
	3-16 UN	2B	2.932	2.946	2.9594	2.9667	3
		3B	2.932	2.9408	2.9594	2.9649	3
	3-18 UNS	2B	2.94	2.953	2.9639	2.9709	3
	3-20 UN	2B	2.946	2.957	2.9675	2.9743	3
		3B	2.946	2.9537	2.9675	2.9726	3
3.125	3 1/8-6 UN	2B	2.945	2.975	3.0167	3.0289	3.125
		3B	2.945	2.9646	3.0167	3.0259	3.125
	3 1/8-8 UN	2B	2.99	3.015	3.0438	3.055	3.125
		3B	2.99	3.0047	3.0438	3.0522	3.125
	3 1/8-12 UN	2B	3.035	3.053	3.0709	3.0791	3.125
		3B	3.035	3.0448	3.0709	3.0771	3.125
	3 1/8-16 UN	2B	3.057	3.071	3.0844	3.0917	3.125
		3B	3.057	3.0658	3.0844	3.0899	3.125
3.25	3 1/4-4 UNC	1B	2.979	3.017	3.0876	3.1088	3.25
		2B	2.979	3.017	3.0876	3.1017	3.25
		3B	2.979	3.0094	3.0876	3.0982	3.25
	3 1/4-6 UN	2B	3.07	3.1	3.1417	3.154	3.25
		3B	3.07	3.0896	3.1417	3.1509	3.25
	3 1/4-8 UN	2B	3.115	3.14	3.1688	3.1801	3.25
		3B	3.115	3.1297	3.1688	3.1773	3.25
	3 1/4-10 UNS	2B	3.142	3.163	3.185	3.1939	3.25
	3 1/4-12 UN	2B	3.16	3.178	3.1959	3.2041	3.25
		3B	3.16	3.1698	3.1959	3.2041	3.25
	3 1/4-14 UNS	2B	3.173	3.188	3.2036	3.2113	3.25
	3 1/4-16 UN	2B	3.182	3.196	3.2094	3.2167	3.25
		3B	3.182	3.1908	3.2094	3.2149	3.25
	3 1/4-18 UNS	2B	3.19	3.203	3.2139	3.2209	3.25
3.375	3 3/8-6 UN	2B	3.195	3.225	3.2667	3.2791	3.375
		3B	3.195	3.2146	3.2667	3.276	3.375
	3 3/8-8 UN	2B	3.24	3.265	3.2938	3.3052	3.375
		3B	3.24	3.2547	3.2938	3.3023	3.375
	3 3/8-12 UN	2B	3.285	3.303	3.3209	3.3293	3.375
		3B	3.285	3.2948	3.3209	3.3272	3.375
	3 3/8-16 UN	2B	3.307	3.321	3.3344	3.3419	3.375
		3B	3.307	3.3158	3.3344	3.34	3.375
3.5	3 1/2-4 UNC	1B	3.229	3.267	3.3376	3.3591	3.5
		2B	3.229	3.267	3.3376	3.3519	3.5
		3B	3.229	3.2594	3.3376	3.3484	3.5
	3 1/2-6 UN	2B	3.32	3.35	3.3917	3.4042	3.5
		3B	3.32	3.3396	3.3917	3.4011	3.5
	3 1/2-8 UN	2B	3.365	3.39	3.4188	3.4303	3.5
		3B	3.365	3.3797	3.4188	3.4274	3.5
	3 1/2-10 UNS	2B	3.392	3.413	3.435	3.444	3.5
	3 1/2-12 UN	2B	3.41	3.428	3.4459	3.4543	3.5
		3B	3.41	3.4198	3.4459	3.4522	3.5

	3 1/2-14 UNS	2B	3.423	3.438	3.4536	3.4615	3.5
	3 1/2-16 UN	2B	3.432	3.446	3.4594	3.4669	3.5
		3B	3.432	3.4408	3.4594	3.465	3.5
	3 1/2-18 UNS	2B	3.44	3.453	3.4639	3.4711	3.5
3.625	3 5/8-6 UN	2B	3.445	3.475	3.5167	3.5293	3.625
		3B	3.445	3.4646	3.5167	3.5262	3.625
	3 5/8-8 UN	2B	3.49	3.515	3.5438	3.5554	3.625
		3B	3.49	3.5047	3.5438	3.5525	3.625
	3 5/8-12 UN	2B	3.535	3.553	3.5709	3.5793	3.625
		3B	3.535	3.5448	3.5709	3.5772	3.625
	3 5/8-16 UN	2B	3.557	3.571	3.5844	3.5919	3.625
		3B	3.557	3.5658	3.5844	3.59	3.625
3.75	3 3/4-4 UNC	1B	3.479	3.517	3.5876	3.6094	3.75
		2B	3.479	3.517	3.5876	3.6021	3.75
		3B	3.479	3.5094	3.5876	3.5985	3.75
	3 3/4-6 UN	2B	3.57	3.6	3.6417	3.6544	3.75
		3B	3.57	3.5896	3.6417	3.6512	3.75
	3 3/4-8 UN	2B	3.615	3.64	3.6688	3.6805	3.75
		3B	3.615	3.6297	3.6688	3.6776	3.75
	3 3/4-10 UNS	2B	3.642	3.663	3.685	3.694	3.75
	3 3/4-12 UN	2B	3.66	3.678	3.6959	3.7043	3.75
		3B	3.66	3.6698	3.6959	3.7022	3.75
	3 3/4-14 UNS	2B	3.673	3.688	3.7036	3.7115	3.75
	3 3/4-16 UN	2B	3.682	3.696	3.7094	3.7169	3.75
		3B	3.682	3.6908	3.7094	3.715	3.75
	3 3/4-18 UNS	2B	3.69	3.703	3.7139	3.7211	3.75
3.875	3 7/8-6 UN	2B	3.695	3.725	3.7667	3.7795	3.875
		3B	3.695	3.7146	3.7667	3.7763	3.875
	3 7/8-8 UN	2B	3.74	3.765	3.7938	3.8056	3.875
		3B	3.74	3.7547	3.7938	3.8026	3.875
	3 7/8-12 UN	2B	3.785	3.803	3.8209	3.8294	3.875
		3B	3.785	3.7948	3.8209	3.8273	3.875
	3 7/8-16 UN	2B	3.807	3.821	3.8344	3.842	3.875
		3B	3.807	3.8158	3.8344	3.8401	3.875
4	4-4 UNC	1B	3.729	3.767	3.8376	3.8597	4
		2B	3.729	3.767	3.8376	3.8523	4
		3B	3.729	3.7594	3.8376	3.8487	4
	4-6 UN	2B	3.82	3.85	3.8917	3.9046	4
		3B	3.82	3.8396	3.8917	3.9014	4
	4-8 UN	2B	3.865	3.89	3.9188	3.9307	4
		3B	3.865	3.8797	3.9188	3.9277	4
	4-10 UNS	2B	3.892	3.913	3.935	3.9441	4
	4-12 UN	2B	3.91	3.928	3.9459	3.9544	4
		3B	3.91	3.9198	3.9459	3.9523	4
	4-14 UNS	2B	3.923	3.938	3.9536	3.9616	4
	4-16 UN	2B	3.932	3.946	3.9594	3.967	4
		3B	3.932	3.9408	3.9594	3.9651	4

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Size

Thread Designation

		External				
		Class	Major Dia		Pitch Dia	
			Max	Min	Max	Min
0.25	M0.25x0.075	6g	0.250	0.235	0.201	0.187
	M0.25x0.075	4g6g	0.250	0.235	0.201	0.193
0.3	M0.3x0.08	6g	0.300	0.284	0.248	0.234
	M0.3x0.08	4g6g	0.300	0.284	0.248	0.239
	M0.3x0.09	6g	0.300	0.283	0.242	0.226
	M0.3x0.09	4g6g	0.300	0.283	0.242	0.233
0.35	M0.35x0.09	6g	0.350	0.333	0.292	0.277
	M0.35x0.09	4g6g	0.350	0.333	0.292	0.283
0.4	M0.4x0.1	6g	0.400	0.382	0.335	0.319
	M0.4x0.1	4g6g	0.400	0.382	0.335	0.325
0.45	M0.45x0.1	6g	0.450	0.432	0.385	0.369
	M0.45x0.1	4g6g	0.450	0.432	0.385	0.375
0.5	M0.5x0.125	6g	0.500	0.479	0.419	0.401
	M0.5x0.125	4g6g	0.500	0.479	0.419	0.408
0.55	M0.55x0.125	6g	0.550	0.529	0.469	0.451
	M0.55x0.125	4g6g	0.550	0.529	0.469	0.458
0.6	M0.6x0.15	6g	0.600	0.576	0.503	0.483
	M0.6x0.15	4g6g	0.600	0.576	0.503	0.490
0.7	M0.7x0.175	6g	0.700	0.673	0.586	0.564
	M0.7x0.175	4g6g	0.700	0.673	0.586	0.572
0.8	M0.8x0.2	6g	0.800	0.770	0.670	0.646
	M0.8x0.2	4g6g	0.800	0.770	0.670	0.655
0.9	M0.9x0.225	6g	0.900	0.867	0.754	0.728
	M0.9x0.225	4g6g	0.900	0.867	0.754	0.738
1	M1x0.25	6g	0.982	0.915	0.820	0.767
	M1x0.25	4g6g	0.982	0.915	0.820	0.787
	M1x0.2	6g	0.983	0.927	0.853	0.805
	M1x0.2	4g6g	0.983	0.927	0.853	0.823
1.1	M1.1x0.25	6g	1.082	1.015	0.920	0.867
	M1.1x0.25	4g6g	1.082	1.015	0.920	0.888
	M1.1x0.2	6g	1.083	1.027	0.953	0.905
	M1.1x0.2	4g6g	1.083	1.027	0.953	0.923
1.2	M1.2x0.25	6g	1.182	1.115	1.020	0.967
	M1.2x0.25	4g6g	1.182	1.115	1.020	0.987
	M1.2x0.2	6g	1.183	1.127	1.053	1.005
	M1.2x0.2	4g6g	1.183	1.127	1.053	1.023
1.4	M1.4x0.3	6g	1.383	1.308	1.253	1.193
	M1.4x0.3	4g6g	1.383	1.308	1.253	1.215
	M1.4x0.2	6g	1.383	1.327	1.253	1.205
	M1.4x0.2	4g6g	1.383	1.327	1.253	1.223
1.6	M1.6x0.35	6g	1.581	1.496	1.354	1.291
	M1.6x0.35	4g6g	1.581	1.496	1.354	1.314
	M1.6x0.2	6g	1.583	1.527	1.453	1.403
	M1.6x0.2	4g6g	1.583	1.527	1.453	1.421
1.7	M1.7x0.35	6g	1.681	1.596	1.454	1.391
	M1.7x0.35	4g6g	1.681	1.596	1.454	1.414
1.8	M1.8x0.35	6g	1.781	1.696	1.554	1.491
	M1.8x0.35	4g6g	1.781	1.696	1.554	1.514
	M1.8x0.2	6g	1.783	1.727	1.653	1.603
	M1.8x0.2	4g6g	1.783	1.727	1.653	1.621
2	M2x0.4	6g	1.981	1.886	1.721	1.654
	M2x0.4	4g6g	1.981	1.886	1.721	1.679
	M2x0.25	6g	1.982	1.915	1.820	1.764

	M2x0.25	4g6g	1.982	1.915	1.820	1.784
2.2	M2.2x0.45	6g	2.180	2.080	1.888	1.817
	M2.2x0.45	4g6g	2.180	2.080	1.888	1.843
	M2.2x0.25	6g	2.182	2.115	2.020	1.964
	M2.2x0.25	4g6g	2.182	2.115	2.020	1.984
2.3	M2.3x0.45	6g	2.280	2.180	1.988	1.917
	M2.3x0.45	4g6g	2.280	2.180	1.988	1.943
	M2.3x0.4	6g	2.281	2.186	2.021	1.954
	M2.3x0.4	4g6g	2.281	2.186	2.021	1.979
2.5	M2.5x0.45	6g	2.480	2.380	2.188	2.117
	M2.5x0.45	4g6g	2.480	2.380	2.188	2.143
	M2.5x0.35	6g	2.481	2.396	2.254	2.191
	M2.5x0.35	4g6g	2.481	2.396	2.254	2.214
2.6	M2.6x0.45	6g	2.580	2.480	2.288	2.217
	M2.6x0.45	4g6g	2.580	2.480	2.288	2.243
3	M3x0.5	6g	2.980	2.874	2.655	2.580
	M3x0.5	4g6g	2.980	2.874	2.655	2.607
	M3x0.35	6g	2.981	2.896	2.754	2.687
	M3x0.35	4g6g	2.981	2.896	2.754	2.712
3.5	M3.5x0.6	6g	3.479	3.354	3.089	3.004
	M3.5x0.6	4g6g	3.479	3.354	3.089	3.036
	M3.5x0.35	6g	3.481	3.396	3.254	3.187
	M3.5x0.35	4g6g	3.481	3.396	3.254	3.212
4	M4x0.7	6g	3.978	3.838	3.523	3.433
	M4x0.7	4g6g	3.978	3.838	3.523	3.467
	M4x0.5	6g	3.980	3.874	3.655	3.580
	M4x0.5	4g6g	3.980	3.874	3.655	3.607
4.5	M4.5x0.75	6g	4.478	4.338	3.991	3.901
	M4.5x0.75	4g6g	4.478	4.338	3.991	3.935
	M4.5x0.5	6g	4.480	4.374	4.155	4.080
	M4.5x0.5	4g6g	4.480	4.374	4.155	4.107
5	M5x0.8	6g	4.976	4.826	4.456	4.361
	M5x0.8	4g6g	4.976	4.826	4.456	4.396
	M5x0.5	6g	4.980	4.874	4.655	4.580
	M5x0.5	4g6g	4.980	4.874	4.655	4.607
5.5	M5.5x0.5	6g	5.480	5.374	5.155	5.065
	M5.5x0.5	4g6g	5.480	5.374	5.155	5.099
6	M6x1	6g	5.974	5.794	5.324	5.212
	M6x1	4g6g	5.974	5.794	5.324	5.253
	M6x0.75	6g	5.978	5.838	5.491	5.391
	M6x0.75	4g6g	5.978	5.838	5.491	5.428
	M6x0.7	6g	5.978	5.838	5.523	5.428
	M6x0.7	4g6g	5.978	5.838	5.523	5.463
	M6x0.5	6g	5.980	5.874	5.655	5.570
	M6x0.5	4g6g	5.980	5.874	5.655	5.602
7	M7x1	6g	6.974	6.794	6.324	6.212
	M7x1	4g6g	6.974	6.794	6.324	6.253
	M7x0.75	6g	6.978	6.838	6.491	6.391
	M7x0.75	4g6g	6.978	6.838	6.491	6.428
	M7x0.5	6g	6.980	6.874	6.655	6.570
	M7x0.5	4g6g	6.980	6.874	6.655	6.602
8	M8x1.25	6g	7.972	7.760	7.160	7.042
	M8x1.25	4g6g	7.972	7.760	7.160	7.085
	M8x1	6g	7.974	7.794	7.324	7.212
	M8x1	4g6g	7.974	7.794	7.324	7.253
	M8x0.8	6g	7.976	7.826	7.456	7.350

	M8x0.8	4g6g	7.976	7.826	7.456	7.389
	M8x0.75	6g	7.978	7.838	7.491	7.391
	M8x0.75	4g6g	7.978	7.838	7.491	7.428
	M8x0.5	6g	7.980	7.874	7.655	7.570
	M8x0.5	4g6g	7.980	7.874	7.655	7.602
9	M9x1.25	6g	8.972	8.760	8.160	8.042
	M9x1.25	4g6g	8.972	8.760	8.160	8.085
	M9x1	6g	8.974	8.794	8.324	8.212
	M9x1	4g6g	8.974	8.794	8.324	8.253
	M9x0.75	6g	8.978	8.838	8.491	8.391
	M9x0.75	4g6g	8.978	8.838	8.491	8.428
	M9x0.5	6g	8.980	8.874	8.655	8.570
	M9x0.5	4g6g	8.980	8.874	8.655	8.602
10	M10x1.5	6g	9.968	9.732	8.994	8.862
	M10x1.5	4g6g	9.968	9.732	8.994	8.909
	M10x1.25	6g	9.972	9.760	9.160	9.042
	M10x1.25	4g6g	9.972	9.760	9.160	9.085
	M10x1.12	6g	9.973	9.783	9.246	9.128
	M10x1.12	4g6g	9.973	9.783	9.246	9.171
	M10x1	6g	9.974	9.794	9.324	9.212
	M10x1	4g6g	9.974	9.794	9.324	9.253
	M10x0.75	6g	9.978	9.838	9.491	9.391
	M10x0.75	4g6g	9.978	9.838	9.491	9.428
	M10x0.5	6g	9.980	9.874	9.655	9.570
	M10x0.5	4g6g	9.980	9.874	9.655	9.602
11	M11x1.5	6g	10.968	10.732	9.994	9.862
	M11x1.5	4g6g	10.968	10.732	9.994	9.911
	M11x1	6g	10.974	10.794	10.324	10.212
	M11x1	4g6g	10.974	10.794	10.324	10.253
	M11x0.75	6g	10.978	10.838	10.491	10.391
	M11x0.75	4g6g	10.978	10.838	10.491	10.428
	M11x0.5	6g	10.980	10.874	10.655	10.570
	M11x0.5	4g6g	10.980	10.874	10.655	10.602
12	M12x1.75	6g	11.966	11.701	10.829	10.679
	M12x1.75	4g6g	11.966	11.701	10.829	10.734
	M12x1.5	6g	11.968	11.732	10.994	10.854
	M12x1.25	6g	11.972	11.760	11.160	11.028
	M12x1.25	4g6g	11.972	11.760	11.160	11.075
	M12x1	6g	11.974	11.794	11.324	11.206
	M12x1	4g6g	11.974	11.794	11.324	11.249
	M12x0.75	6g	11.978	11.838	11.491	11.385
	M12x0.75	4g6g	11.978	11.838	11.491	11.424
	M12x0.5	6g	11.980	11.874	11.655	11.565
	M12x0.5	4g6g	11.980	11.874	11.655	11.598
14	M14x2	6g	13.962	13.682	12.663	12.503
	M14x2	4g6g	13.962	13.682	12.663	12.563
	M14x1.5	6g	13.968	13.732	12.994	12.854
	M14x1.5	4g6g	13.968	13.732	12.994	12.904
	M14x1.25	6g	13.972	13.760	13.160	13.028
	M14x1.25	4g6g	13.972	13.760	13.160	13.075
	M14x1	6g	13.974	13.794	13.324	13.206
	M14x1	4g6g	13.974	13.794	13.324	13.250
	M14x0.75	6g	13.978	13.838	13.491	13.385
	M14x0.75	4g6g	13.978	13.838	13.491	13.424
	M14x0.5	6g	13.980	13.874	13.655	13.565
	M14x0.5	4g6g	13.980	13.874	13.655	13.598

15	M15x1.5	6g	14.968	14.732	13.994	13.854
	M15x1.5	4g6g	14.968	14.732	13.994	13.904
	M15x1	6g	14.974	14.794	14.324	14.206
	M15x1	4g6g	14.974	14.794	14.324	14.249
16	M16x2	6g	15.962	15.682	14.663	14.503
	M16x2	4g6g	15.962	15.682	14.663	14.563
	M16x1.5	6g	15.968	15.732	14.994	14.854
	M16x1.5	4g6g	15.968	15.732	14.994	14.904
	M16x1.25	6g	15.972	15.760	15.160	15.028
	M16x1.25	4g6g	15.972	15.760	15.160	15.075
	M16x1	6g	15.974	15.794	15.324	15.206
	M16x1	4g6g	15.974	15.794	15.324	15.249
	M16x0.75	6g	15.978	15.838	15.491	15.385
	M16x0.75	4g6g	15.978	15.838	15.491	15.424
	M16x0.5	6g	15.980	15.874	15.655	15.565
	M16x0.5	4g6g	15.980	15.874	15.655	15.599
17	M17x1.5	6g	16.968	16.732	15.994	15.854
	M17x1.5	4g6g	16.968	16.732	15.994	15.904
	M17x1	6g	16.974	16.794	16.324	16.206
	M17x1	4g6g	16.974	16.794	16.324	16.249
18	M18x2.5	6g	17.958	17.623	16.334	16.164
	M18x2.5	4g6g	17.958	17.623	16.334	16.228
	M18x2	6g	17.962	17.682	16.663	16.503
	M18x2	4g6g	17.962	17.682	16.663	16.563
	M18x1.5	6g	17.968	17.732	16.994	16.854
	M18x1.5	4g6g	17.968	17.732	16.994	16.904
	M18x1.25	6g	17.972	17.760	17.160	17.028
	M18x1.25	4g6g	17.972	17.760	17.160	17.075
	M18x1	6g	17.974	17.794	17.324	17.206
	M18x1	4g6g	17.974	17.794	17.324	17.249
	M18x0.75	6g	17.978	17.838	17.491	17.385
	M18x0.75	4g6g	17.978	17.838	17.491	17.424
	M18x0.5	6g	17.980	17.874	17.655	17.565
	M18x0.5	4g6g	17.980	17.874	17.655	17.599
20	M20x2.5	6g	19.958	19.623	18.334	18.164
	M20x2.5	4g6g	19.958	19.623	18.334	18.228
	M20x2	6g	19.962	19.682	18.663	18.503
	M20x2	4g6g	19.962	19.682	18.663	18.562
	M20x1.5	6g	19.968	19.732	18.994	18.854
	M20x1.5	4g6g	19.968	19.732	18.994	18.904
	M20x1	6g	19.974	19.794	19.324	19.206
	M20x1	4g6g	19.974	19.794	19.324	19.249
	M20x0.75	6g	19.978	19.838	19.491	19.385
	M20x0.75	4g6g	19.978	19.838	19.491	19.424
	M20x0.5	6g	19.980	19.874	19.655	19.565
	M20x0.5	4g6g	19.980	19.874	19.655	19.599
22	M22x3	6g	21.952	21.577	20.003	19.818
	M22x3	4g6g	21.952	21.577	20.003	19.885
	M22x2.5	6g	21.958	21.623	20.334	20.164
	M22x2.5	4g6g	21.958	21.623	20.334	20.234
	M22x2	6g	21.962	21.682	20.663	20.503
	M22x2	4g6g	21.962	21.682	20.663	20.563
	M22x1.5	6g	21.968	21.732	20.994	20.854
	M22x1.5	4g6g	21.968	21.732	20.994	20.904
	M22x1	6g	21.974	21.794	21.324	21.206
	M22x1	4g6g	21.974	21.794	21.324	21.249

	M22x0.75	6g	21.978	21.838	21.491	21.385
	M22x0.75	4g6g	21.978	21.838	21.491	21.424
	M22x0.5	6g	21.980	21.874	21.655	21.565
	M22x0.5	4g6g	21.980	21.874	21.655	21.598
24	M24x3	6g	23.952	23.577	22.003	21.803
	M24x3	4g6g	23.952	23.557	22.003	21.878
	M24x2.5	6g	23.958	23.623	22.334	22.144
	M24x2.5	4g6g	23.958	23.623	22.334	22.214
	M24x2	6g	23.962	23.682	22.663	22.493
	M24x2	4g6g	23.962	23.682	22.663	22.557
	M24x1.5	6g	23.968	23.732	22.994	22.844
	M24x1.5	4g6g	23.968	23.732	22.994	22.899
	M24x1	6g	23.974	23.794	23.324	23.199
	M24x1	4g6g	23.974	23.794	23.324	23.244
	M24x0.75	6g	23.978	23.838	23.491	23.379
	M24x0.75	4g6g	23.978	23.838	23.491	23.420
25	M25x2	6g	24.962	24.682	23.663	23.493
	M25x2	4g6g	24.962	24.682	23.663	23.557
	M25x1.5	6g	24.968	24.732	23.994	23.844
	M25x1.5	4g6g	24.968	24.732	23.994	23.899
	M25x1	6g	24.974	24.794	24.324	24.199
	M25x1	4g6g	24.974	24.794	24.324	24.244
26	M26x1.5	6g	25.968	25.732	24.994	24.844
	M26x1.5	4g6g	25.968	25.732	24.994	24.899
27	M27x3	6g	26.952	26.577	25.003	24.803
	M27x3	4g6g	26.952	26.577	25.003	24.878
	M27x2	6g	26.962	26.682	25.663	25.493
	M27x2	4g6g	29.962	26.682	25.663	25.557
	M27x1.5	6g	26.968	26.732	25.994	25.844
	M27x1.5	4g6g	26.968	26.732	25.994	25.899
	M27x1	6g	26.974	26.794	26.324	26.199
	M27x1	4g6g	26.974	26.794	26.324	26.244
	M27x0.75	6g	26.978	26.838	26.491	26.379
	M27x0.75	4g6g	26.978	26.838	26.491	26.420
28	M28x2	6g	27.962	27.682	26.663	26.493
	M28x2	4g6g	27.962	27.682	26.663	26.557
	M28x1.5	6g	27.968	27.732	26.994	26.844
	M28x1.5	4g6g	27.968	27.732	26.994	26.899
	M28x1	6g	27.974	27.794	27.324	27.199
	M28x1	4g6g	27.974	27.794	27.324	27.244
30	M30x3.5	6g	29.947	29.522	27.674	27.462
	M30x3.5	4g6g	29.947	29.522	27.674	27.542
	M30x3	6g	29.952	29.577	28.003	27.803
	M30x3	4g6g	29.952	29.577	28.003	27.878
	M30x2.5	6g	29.958	29.623	28.334	28.144
	M30x2.5	4g6g	29.958	29.623	28.334	28.214
	M30x2	6g	29.962	29.682	28.663	28.493
	M30x2	4g6g	29.962	29.682	28.663	28.557
	M30x1.5	6g	29.968	29.732	28.994	28.844
	M30x1.5	4g6g	29.968	29.732	28.994	28.899
	M30x1	6g	29.974	29.794	29.324	29.199
	M30x1	4g6g	29.974	29.794	29.324	29.244
	M30x0.75	6g	29.978	29.838	29.491	29.379
	M30x0.75	4g6g	29.978	29.838	29.491	29.420
32	M32x2	6g	31.962	31.682	30.663	30.493
	M32x2	4g6g	31.962	31.682	30.663	30.557

	M32x1.5	6g	31.968	31.732	30.994	30.844
	M32x1.5	4g6g	31.968	31.732	30.994	30.899
33	M33x3.5	6g	32.968	32.543	30.695	30.483
	M33x3.5	4g6g	32.968	32.543	30.695	30.563
	M33x3	6g	32.952	32.577	31.003	30.803
	M33x3	4g6g	32.952	32.577	31.003	30.878
	M33x2	6g	32.962	32.682	31.663	31.493
	M33x2	4g6g	32.962	32.682	31.663	31.557
	M33x1.5	6g	32.968	32.732	31.994	31.844
	M33x1.5	4g6g	32.968	32.732	31.994	31.899
	M33x1	6g	32.974	32.794	32.324	32.199
	M33x1	4g6g	32.974	32.794	32.324	32.244
	M33x0.75	6g	32.978	32.838	32.491	32.379
	M33x0.75	4g6g	32.978	32.838	32.491	32.420
35	M35x1.5	6g	34.968	34.732	33.994	33.844
	M35x1.5	4g6g	34.968	34.732	33.994	33.899
36	M36x4	6g	35.940	35.465	33.342	33.118
	M36x4	4g6g	35.940	35.465	33.342	33.202
	M36x3	6g	35.952	35.577	34.003	33.803
	M36x3	4g6g	35.952	35.577	34.003	33.878
	M36x2	6g	35.962	35.682	34.663	34.493
	M36x2	4g6g	35.962	35.682	34.663	34.557
	M36x1.5	6g	35.968	35.732	34.994	34.844
	M36x1.5	4g6g	35.968	35.732	34.994	34.899
	M36x1	6g	35.974	35.794	35.324	35.199
	M36x1	4g6g	35.974	35.794	35.324	35.244
38	M38x1.5	6g	37.968	37.732	36.994	36.844
	M38x1.5	4g6g	37.968	37.732	36.994	36.899
39	M39x4	6g	38.940	38.465	36.342	36.118
	M39x4	4g6g	38.940	38.465	36.342	36.202
	M39x3	6g	38.952	38.577	37.003	36.803
	M39x3	4g6g	38.952	38.577	37.003	36.878
	M39x2	6g	38.962	38.682	37.663	37.493
	M39x2	4g6g	38.962	38.682	37.663	37.557
	M39x1.5	6g	38.968	38.732	37.994	37.844
	M39x1.5	4g6g	38.968	38.732	37.994	37.899
	M39x1	6g	38.974	38.794	38.324	38.199
	M39x1	4g6g	38.974	38.794	38.324	38.244
40	M40x3	6g	39.952	39.577	38.003	37.803
	M40x3	4g6g	39.952	39.577	38.003	37.878
	M40x2.5	6g	39.958	39.623	38.334	38.144
	M40x2.5	4g6g	39.958	39.623	38.334	38.215
	M40x2	6g	39.962	39.682	38.663	38.493
	M40x2	4g6g	39.962	39.682	38.663	38.557
	M40x1.5	6g	39.968	39.732	38.994	38.844
	M40x1.5	4g6g	39.968	39.732	38.994	38.899
42	M42x4.5	6g	41.937	41.437	39.014	38.778
	M42x4.5	4g6g	41.937	41.437	39.014	38.864
	M42x4	6g	41.940	41.465	39.342	39.118
	M42x4	4g6g	41.940	41.465	39.342	39.202
	M42x3	6g	41.952	41.577	40.003	39.803
	M42x3	4g6g	41.952	41.577	40.003	39.878
	M42x2	6g	41.962	41.682	40.663	40.493
	M42x2	4g6g	41.962	41.682	40.663	40.557
	M42x1.5	6g	41.968	41.732	40.994	40.844
	M42x1.5	4g6g	41.968	41.732	40.994	40.899

	M42x1	6g	41.974	41.794	41.324	41.199
	M42x1	4g6g	41.974	41.794	41.324	41.244
45	M45x4.5	6g	44.937	44.437	42.014	41.778
	M45x4.5	4g6g	44.937	44.437	42.014	41.864
	M45x4	6g	44.940	44.465	42.342	42.118
	M45x4	4g6g	44.940	44.465	42.342	42.202
	M45x3	6g	44.952	44.577	43.003	42.803
	M45x3	4g6g	44.952	44.577	43.003	42.878
	M45x2	6g	44.962	44.682	43.663	43.493
	M45x2	4g6g	44.962	44.682	43.663	43.557
	M45x1.5	6g	44.968	44.732	43.994	43.844
	M45x1.5	4g6g	44.968	44.732	43.994	43.899
	M45x1	6g	44.974	44.794	44.324	44.199
	M45x1	4g6g	44.974	44.794	44.324	44.244
48	M48x5	6g	47.929	47.399	44.681	44.431
	M48x5	4g6g	47.929	47.399	44.681	44.521
	M48x4	6g	47.940	47.465	45.342	45.106
	M48x4	4g6g	47.940	47.465	45.342	45.192
	M48x3	6g	47.952	47.577	46.003	45.791
	M48x3	4g6g	47.952	47.577	46.003	45.871
	M48x2	6g	47.962	47.682	46.663	46.483
	M48x2	4g6g	47.962	47.682	46.663	46.551
	M48x1.5	6g	47.968	47.732	46.994	46.834
	M48x1.5	4g6g	47.968	47.732	46.994	46.894
50	M50x4	6g	49.940	49.465	47.342	47.106
	M50x4	4g6g	49.940	49.465	47.342	47.192
	M50x3	6g	49.952	49.577	48.003	47.791
	M50x3	4g6g	49.952	49.577	48.003	47.871
	M50x2	6g	49.962	49.682	48.663	48.483
	M50x2	4g6g	49.962	49.682	48.663	48.551
	M50x1.5	6g	49.968	49.732	48.994	48.834
	M50x1.5	4g6g	49.968	49.732	48.994	48.894
52	M52x5	6g	51.929	51.399	48.681	48.445
	M52x5	4g6g	51.929	51.399	48.681	48.531
	M52x4	6g	51.940	51.465	49.342	49.106
	M52x4	4g6g	51.940	51.465	49.342	49.192
	M52x3	6g	51.952	51.577	50.003	49.791
	M52x3	4g6g	51.952	51.577	50.003	49.871
	M52x2	6g	51.962	51.682	50.663	50.483
	M52x2	4g6g	51.962	51.682	50.663	50.551
	M52x1.5	6g	51.968	51.732	50.994	50.834
	M52x1.5	4g6g	51.968	51.732	50.994	50.894
55	M55x4	6g	54.940	54.465	52.342	52.106
	M55x4	4g6g	54.940	54.465	52.342	52.192
	M55x3	6g	54.952	54.577	53.003	52.791
	M55x3	4g6g	54.952	54.577	53.003	52.871
	M55x2	6g	54.962	54.682	53.663	53.483
	M55x2	4g6g	54.962	54.682	53.663	53.551
	M55x1.5	6g	54.968	54.732	53.994	53.834
	M55x1.5	4g6g	54.968	54.732	53.994	53.894
56	M56x6.5	6g	55.915	55.285	51.693	51.393
	M56x6.5	4g6g	55.915	55.285	51.693	51.503
	M56x5.5	6g	55.925	55.365	52.353	52.088
	M56x5.5	4g6g	55.925	55.365	52.353	52.183
	M56x4	6g	55.940	55.465	53.342	53.106
	M56x4	4g6g	55.940	55.465	53.342	53.192

	M56x3	6g	55.952	55.577	54.003	53.791
	M56x3	4g6g	55.952	55.577	54.003	53.871
	M56x2	6g	55.962	55.682	54.663	54.483
	M56x2	4g6g	55.962	55.682	54.663	54.551
	M56x1.5	6g	55.968	55.732	54.994	54.834
	M56x1.5	4g6g	55.968	55.732	54.994	54.894
	M56x1	6g	55.974	55.794	55.324	55.184
	M56x1	4g6g	55.974	55.794	55.324	55.234
58	M58x4	6g	57.940	57.465	55.342	55.106
	M58x4	4g6g	57.940	57.465	55.342	55.192
	M58x3	6g	57.952	57.577	56.003	55.791
	M58x3	4g6g	57.952	57.577	56.003	55.871
	M58x2	6g	57.962	57.682	56.663	56.483
	M58x2	4g6g	57.962	57.682	56.663	56.551
	M58x1.5	6g	57.968	57.732	56.994	56.834
	M58x1.5	4g6g	57.968	57.732	56.994	56.894
60	M60x5.5	6g	59.925	59.365	56.353	56.088
	M60x5.5	4g6g	59.925	59.365	56.353	56.183
	M60x4	6g	59.940	59.465	57.342	57.106
	M60x4	4g6g	59.940	59.465	57.342	57.192
	M60x3	6g	59.952	59.577	58.003	57.791
	M60x3	4g6g	59.952	59.577	58.003	57.871
	M60x2	6g	59.962	59.682	58.663	58.483
	M60x2	4g6g	59.962	59.682	58.663	58.551
	M60x1.5	6g	59.968	59.732	58.994	58.834
	M60x1.5	4g6g	59.968	59.732	58.994	58.894
	M60x1	6g	59.974	59.794	59.324	59.184
	M60x1	4g6g	59.974	59.794	59.324	59.234
62	M62x4	6g	61.940	61.465	59.342	59.106
	M62x4	4g6g	61.940	61.465	59.342	59.192
	M62x3	6g	61.952	61.577	60.003	59.791
	M62x3	4g6g	61.952	61.577	60.003	59.871
	M62x2	6g	61.962	61.682	60.663	60.483
	M62x2	4g6g	61.962	61.682	60.663	60.551
	M62x1.5	6g	61.968	61.732	60.994	60.834
	M62x1.5	4g6g	61.968	61.732	60.994	60.894
63	M63x1.5	6g	62.968	62.732	61.994	61.834
	M63x1.5	4g6g	62.968	62.732	61.994	61.894
64	M64x6	6g	63.920	63.320	60.023	59.743
	M64x6	4g6g	63.920	63.320	60.023	59.843
	M64x5.5	6g	63.925	63.365	60.353	60.088
	M64x5.5	4g6g	63.925	63.365	60.353	60.183
	M64x4	6g	63.940	63.465	61.342	61.106
	M64x4	4g6g	63.940	63.465	61.342	61.192
	M64x3	6g	63.952	63.577	62.003	61.791
	M64x3	4g6g	63.952	63.577	62.003	61.871
	M64x2	6g	63.962	63.682	62.663	62.483
	M64x2	4g6g	63.962	63.682	62.663	62.551
	M64x1.5	6g	63.968	63.732	62.994	62.834
	M64x1.5	4g6g	63.968	63.732	62.994	62.894
	M64x1	6g	63.974	63.794	63.324	63.184
	M64x1	4g6g	63.974	63.794	63.324	63.234
65	M65x4	6g	64.940	64.465	62.342	62.106
	M65x4	4g6g	64.940	64.465	62.342	62.192
	M65x3	6g	64.952	64.577	63.003	62.791
	M65x3	4g6g	64.952	64.577	63.003	62.871

	M65x2	6g	64.962	64.682	63.663	63.483
	M65x2	4g6g	64.962	64.682	63.663	63.551
	M65x1.5	6g	64.968	64.732	63.994	63.834
	M65x1.5	4g6g	64.968	64.732	63.994	63.894
68	M68x6	6g	67.920	67.320	64.023	63.743
	M68x6	4g6g	67.920	67.320	64.023	63.843
	M68x4	6g	67.940	67.465	65.342	65.106
	M68x4	4g6g	67.940	67.465	65.342	65.192
	M68x3	6g	67.952	67.577	66.003	65.791
	M68x3	4g6g	67.952	67.577	66.003	65.871
	M68x2	6g	67.962	67.682	66.663	66.483
	M68x2	4g6g	67.962	67.682	66.663	66.551
	M68x1.5	6g	67.968	67.732	66.994	66.834
	M68x1.5	4g6g	67.968	67.732	66.994	66.894
	M68x1	6g	67.974	67.794	67.324	67.184
	M68x1	4g6g	67.974	67.794	67.324	67.234
70	M70x6	6g	69.920	69.320	66.023	65.743
	M70x6	4g6g	69.920	69.320	66.023	65.843
	M70x4	6g	69.940	69.465	67.342	67.106
	M70x4	4g6g	69.940	69.465	67.342	67.192
	M70x3	6g	69.952	69.577	68.003	67.791
	M70x3	4g6g	69.952	69.577	68.003	67.871
	M70x2	6g	69.962	69.682	68.663	68.483
	M70x2	4g6g	69.962	69.682	68.663	68.551
	M70x1.5	6g	69.968	69.732	68.994	68.834
	M70x1.5	4g6g	69.968	69.732	68.994	68.894
72	M72x6	6g	71.920	71.320	68.023	67.743
	M72x6	4g6g	71.920	71.320	68.023	67.843
	M72x4	6g	71.940	71.465	69.342	69.106
	M72x4	4g6g	71.940	71.465	69.342	69.192
	M72x3	6g	71.952	71.577	70.003	69.791
	M72x3	4g6g	71.952	71.577	70.003	69.871
	M72x2	6g	71.962	71.682	70.663	70.483
	M72x2	4g6g	71.962	71.682	70.663	70.551
	M72x1.5	6g	71.968	71.732	70.994	70.834
	M72x1.5	4g6g	71.968	71.732	70.994	70.894
	M72x1	6g	71.974	71.794	71.324	71.184
	M72x1	4g6g	71.974	71.794	71.324	71.234
75	M75x6	6g	74.920	74.320	71.023	70.743
	M75x6	4g6g	74.920	74.320	71.023	70.843
	M75x4	6g	74.940	74.465	72.342	72.106
	M75x4	4g6g	74.940	74.465	72.342	72.192
	M75x3	6g	74.952	74.577	73.003	72.791
	M75x3	4g6g	74.952	74.577	73.003	72.871
	M75x2	6g	74.962	74.682	73.663	73.483
	M75x2	4g6g	74.962	74.682	73.663	73.551
	M75x1.5	6g	74.968	74.732	73.994	73.834
	M75x1.5	4g6g	74.968	74.732	73.994	73.894
76	M76x6	6g	75.920	75.320	72.023	71.743
	M76x6	4g6g	75.920	75.320	72.023	71.843
	M76x4	6g	75.940	75.465	73.342	73.106
	M76x4	4g6g	75.940	75.465	73.342	73.192
	M76x3	6g	75.952	75.577	74.003	73.791
	M76x3	4g6g	75.952	75.577	74.003	73.871
	M76x2	6g	75.962	75.682	74.663	74.483
	M76x2	4g6g	75.962	75.682	74.663	74.551

	M76x1.5	6g	75.968	75.732	74.994	74.834
	M76x1.5	4g6g	75.968	75.732	74.994	74.894
	M76x1	6g	75.974	75.794	75.324	75.184
	M76x1	4g6g	75.974	75.794	75.324	75.234
78	M78x2	6g	77.962	77.682	76.663	76.483
	M78x2	4g6g	77.962	77.682	76.663	76.551
80	M80x6	6g	79.920	79.320	76.023	75.743
	M80x6	4g6g	79.920	79.320	76.023	75.843
	M80x4	6g	79.940	79.340	77.342	77.106
	M80x4	4g6g	79.940	79.340	77.342	77.192
	M80x3	6g	79.952	79.577	78.003	77.791
	M80x3	4g6g	79.952	79.577	78.003	77.871
	M80x2	6g	79.962	79.682	78.663	78.483
	M80x2	4g6g	79.962	79.682	78.663	78.551
	M80x1.5	6g	79.968	79.732	78.994	78.834
	M80x1.5	4g6g	79.968	79.732	78.994	78.894
	M80x1	6g	79.974	79.794	79.324	79.184
	M80x1	4g6g	79.974	79.794	79.324	79.234
82	M82x2	6g	81.962	81.682	80.663	80.483
	M82x2	4g6g	81.962	81.682	80.663	80.551
85	M85x6	6g	84.920	84.320	81.023	80.743
	M85x6	4g6g	84.920	84.320	81.023	80.843
	M85x4	6g	84.940	84.465	82.342	82.106
	M85x4	4g6g	84.940	84.465	82.342	82.192
	M85x3	6g	84.952	84.577	83.003	82.791
	M85x3	4g6g	84.952	84.577	83.003	82.871
	M85x2	6g	84.962	84.682	83.663	83.483
	M85x2	4g6g	84.962	84.682	83.663	83.551
	M85x1.5	6g	84.968	84.732	83.994	83.834
	M85x1.5	4g6g	84.968	84.732	83.994	83.894
90	M90x6	6g	89.920	89.320	86.023	85.743
	M90x6	4g6g	89.920	89.320	86.023	85.843
	M90x4	6g	89.940	89.465	87.342	87.106
	M90x4	4g6g	89.940	89.465	87.342	87.192
	M90x3	6g	89.952	89.577	88.003	87.791
	M90x3	4g6g	89.952	89.577	88.003	87.871
	M90x2	6g	89.962	89.682	88.663	88.483
	M90x2	4g6g	89.962	89.682	88.663	88.551
	M90x1.5	6g	89.968	89.732	88.994	88.834
	M90x1.5	4g6g	89.968	89.732	88.994	88.894
95	M95x6	6g	94.920	94.320	91.023	90.723
	M95x6	4g6g	94.920	94.320	91.023	90.833
	M95x4	6g	94.940	94.465	92.342	92.092
	M95x4	4g6g	94.940	94.465	92.342	92.182
	M95x3	6g	94.952	94.577	93.003	92.779
	M95x3	4g6g	94.952	94.577	93.003	92.863
	M95x2	6g	94.962	94.682	93.663	93.473
	M95x2	4g6g	94.962	94.682	93.663	93.545
	M95x1.5	6g	94.968	94.732	93.994	93.814
	M95x1.5	4g6g	94.968	94.732	93.994	93.882
100	M100x6	6g	99.920	99.320	96.023	95.723
	M100x6	4g6g	99.920	99.320	96.023	95.833
	M100x4	6g	99.940	99.465	97.342	97.092
	M100x4	4g6g	99.940	99.465	97.342	97.182
	M100x3	6g	99.952	99.577	98.003	97.779
	M100x3	4g6g	99.952	99.577	98.003	97.863

	M100x2	6g	99.962	99.682	98.663	98.473
	M100x2	4g6g	99.962	99.682	98.663	98.545
	M100x1.5	6g	99.968	99.732	98.994	98.814
	M100x1.5	4g6g	99.968	99.732	98.994	98.882
105	M105x6	6g	104.920	104.320	101.023	100.723
	M105x6	4g6g	104.920	104.320	101.023	100.833
	M105x4	6g	104.940	104.465	102.342	102.092
	M105x4	4g6g	104.940	104.465	102.342	102.182
	M105x3	6g	104.952	104.577	103.003	102.779
	M105x3	4g6g	104.952	104.577	103.003	102.863
	M105x2	6g	104.962	104.682	103.663	103.473
	M105x2	4g6g	104.962	104.682	103.663	103.545
	M105x1.5	6g	104.968	104.732	103.994	103.814
	M105x1.5	4g6g	104.968	104.732	103.994	103.882
110	M110x6	6g	109.920	109.320	106.023	105.723
	M110x6	4g6g	109.920	109.320	106.023	105.833
	M110x4	6g	109.940	109.465	107.342	107.092
	M110x4	4g6g	109.940	109.465	107.342	107.182
	M110x3	6g	109.952	109.577	108.003	107.779
	M110x3	4g6g	109.952	109.577	108.003	107.863
	M110x2	6g	109.962	109.682	108.663	108.473
	M110x2	4g6g	109.962	109.682	108.663	108.545
	M110x1.5	6g	109.968	109.732	108.994	108.814
	M110x1.5	4g6g	109.968	109.732	108.994	108.882
115	M115x6	6g	114.920	114.320	111.023	110.723
	M115x6	4g6g	114.920	114.320	111.023	110.833
	M115x4	6g	114.940	114.465	112.342	112.092
	M115x4	4g6g	114.940	114.465	112.342	112.182
	M115x3	6g	114.952	114.577	113.003	112.779
	M115x3	4g6g	114.952	114.577	113.003	112.863
	M115x2	6g	114.962	114.682	113.663	113.473
	M115x2	4g6g	114.962	114.682	113.663	113.543
	M115x1.5	6g	114.968	114.732	113.994	113.814
	M115x1.5	4g6g	114.968	114.732	113.994	113.882
120	M120x6	6g	119.920	119.320	116.023	115.723
	M120x6	4g6g	119.920	119.320	116.023	115.833
	M120x4	6g	119.940	119.465	117.342	117.092
	M120x4	4g6g	119.940	119.465	117.342	117.182
	M120x3	6g	119.952	119.577	118.003	117.779
	M120x3	4g6g	119.952	119.577	118.003	117.863
	M120x2	6g	119.962	119.682	118.663	118.473
	M120x2	4g6g	119.962	119.682	118.663	118.545
	M120x1.5	6g	119.968	119.732	118.994	118.814
	M120x1.5	4g6g	119.968	119.732	118.994	118.882
125	M125x8	6g	124.900	124.190	119.704	119.369
	M125x8	4g6g	124.900	124.190	119.704	119.492
	M125x6	6g	124.920	124.320	121.023	120.723
	M125x6	4g6g	124.920	124.320	121.023	120.833
	M125x4	6g	124.940	124.465	122.342	122.092
	M125x4	4g6g	124.940	124.465	122.342	122.182
	M125x3	6g	124.952	124.577	123.003	122.779
	M125x3	4g6g	124.952	124.577	123.003	122.863
	M125x2	6g	124.962	124.682	123.663	123.473
	M125x2	4g6g	124.962	124.682	123.663	123.543
	M125x1.5	6g	124.968	124.732	123.994	123.814
	M125x1.5	4g6g	124.968	124.732	123.994	123.882

130	M130x8	6g	129.900	129.190	124.704	124.369
	M130x8	4g6g	129.900	129.190	124.704	124.492
	M130x6	6g	129.920	129.320	126.023	125.723
	M130x6	4g6g	129.920	129.320	126.023	125.833
	M130x4	6g	129.940	129.465	127.342	127.092
	M130x4	4g6g	129.940	129.465	127.342	127.182
	M130x3	6g	129.952	129.577	128.003	127.779
	M130x3	4g6g	129.952	129.577	128.003	127.863
	M130x2	6g	129.962	129.682	128.663	128.473
	M130x2	4g6g	139.962	139.682	138.663	138.545
	M130x1.5	6g	129.968	129.732	128.994	128.814
	M130x1.5	4g6g	129.968	129.732	128.994	128.882
135	M135x6	6g	134.920	134.320	131.023	130.723
	M135x6	4g6g	134.920	134.320	131.023	130.833
	M135x4	6g	134.940	134.465	132.342	132.092
	M135x4	4g6g	134.940	134.465	132.342	132.182
	M135x3	6g	134.952	134.577	133.003	132.779
	M135x3	4g6g	134.952	134.577	133.003	132.863
	M135x2	6g	134.962	134.682	133.663	133.473
	M135x2	4g6g	134.962	134.682	133.663	133.543
	M135x1.5	6g	134.968	134.732	133.994	133.814
	M135x1.5	4g6g	134.968	134.732	133.994	133.882
140	M140x8	6g	139.900	139.190	134.704	134.369
	M140x8	4g6g	139.900	139.190	134.704	134.492
	M140x6	6g	139.920	139.320	136.023	135.723
	M140x6	4g6g	139.920	139.320	136.023	135.833
	M140x4	6g	139.940	139.465	137.342	137.092
	M140x4	4g6g	139.940	139.465	137.342	137.182
	M140x3	6g	139.952	139.577	138.003	137.779
	M140x3	4g6g	139.952	139.577	138.003	137.863
	M140x2	6g	139.962	139.682	138.663	138.473
	M140x2	4g6g	139.962	139.682	138.663	138.545
	M140x1.5	6g	139.968	139.732	138.994	138.814
	M140x1.5	4g6g	139.968	139.732	138.994	138.882
145	M145x6	6g	144.920	144.320	141.023	140.723
	M145x6	4g6g	144.920	144.320	141.023	140.833
	M145x4	6g	144.940	144.465	142.342	142.092
	M145x4	4g6g	144.940	144.465	142.342	142.182
	M145x3	6g	144.952	144.577	143.003	142.779
	M145x3	4g6g	144.952	144.577	143.003	142.863
	M145x2	6g	144.962	144.682	143.663	143.473
	M145x2	4g6g	144.962	144.682	143.663	143.543
	M145x1.5	6g	144.968	144.732	143.994	143.814
	M145x1.5	4g6g	144.968	144.732	143.994	143.882
150	M150x8	6g	149.900	149.190	144.704	144.369
	M150x8	4g6g	149.900	149.190	144.704	144.492
	M150x6	6g	149.920	149.320	146.023	145.723
	M150x6	4g6g	149.920	149.320	146.023	145.833
	M150x4	6g	149.940	149.465	147.342	147.092
	M150x4	4g6g	149.940	149.465	147.342	147.182
	M150x3	6g	149.952	149.577	148.003	147.779
	M150x3	4g6g	149.952	149.577	148.003	147.863
	M150x2	6g	149.962	149.682	148.663	148.473
	M150x2	4g6g	149.962	149.682	148.663	148.545
	M150x1.5	6g	149.968	149.732	148.994	148.814
	M150x1.5	4g6g	149.968	149.732	148.994	148.882

155	M155x6	6g	154.920	154.320	151.023	150.723
	M155x6	4g6g	154.920	154.320	151.023	150.833
	M155x4	6g	154.940	154.465	152.342	152.092
	M155x4	4g6g	154.940	154.465	152.342	152.182
	M155x3	6g	154.952	154.577	153.003	152.779
	M155x3	4g6g	154.952	154.577	153.003	152.863
	M155x2	6g	154.962	154.682	153.663	153.473
	M155x2	4g6g	154.962	154.682	153.663	153.543
160	M160x8	6g	159.900	159.190	154.704	154.369
	M160x8	4g6g	159.900	159.190	154.704	154.492
	M160x6	6g	159.920	159.320	156.023	155.723
	M160x6	4g6g	159.920	159.320	156.023	155.833
	M160x4	6g	159.940	159.465	157.342	157.092
	M160x4	4g6g	159.940	159.465	157.342	157.182
	M160x3	6g	159.952	159.577	158.003	157.779
	M160x3	4g6g	159.952	159.577	158.003	157.863
	M160x2	6g	159.962	159.682	158.663	158.473
	M160x2	4g6g	159.962	159.682	158.663	158.543
165	M165x6	6g	164.920	164.320	161.023	160.723
	M165x6	4g6g	164.920	164.320	161.023	160.833
	M165x4	6g	164.940	164.465	162.342	162.092
	M165x4	4g6g	164.940	164.465	162.342	162.182
	M165x3	6g	164.952	164.577	163.003	162.779
	M165x3	4g6g	164.952	164.577	163.003	162.863
	M165x2	6g	164.962	164.682	163.663	163.473
	M165x2	4g6g	164.962	164.682	163.663	163.543
170	M170x8	6g	169.900	169.190	164.704	164.369
	M170x8	4g6g	169.900	169.190	164.704	164.492
	M170x6	6g	169.920	169.320	166.023	165.723
	M170x6	4g6g	169.920	169.320	166.023	165.833
	M170x4	6g	169.940	169.465	167.342	167.092
	M170x4	4g6g	169.940	169.465	167.342	167.182
	M170x3	6g	169.952	169.577	168.003	167.779
	M170x3	4g6g	169.952	169.577	168.003	167.863
	M170x2	6g	169.962	169.682	168.663	168.473
	M170x2	4g6g	169.962	169.682	168.663	168.543
175	M175x6	6g	174.920	174.320	171.023	170.723
	M175x6	4g6g	174.920	174.320	171.023	170.833
	M175x4	6g	174.940	174.465	172.342	172.092
	M175x4	4g6g	174.940	174.465	172.342	172.182
	M175x3	6g	174.952	174.577	173.003	172.779
	M175x3	4g6g	174.952	174.577	173.003	172.862
	M175x2	6g	174.962	174.682	173.663	173.473
	M175x2	4g6g	174.962	174.682	173.663	173.543
180	M180x8	6g	179.900	179.190	174.704	174.369
	M180x8	4g6g	179.900	179.190	174.704	174.492
	M180x6	6g	179.920	179.320	176.023	175.723
	M180x6	4g6g	179.920	179.320	176.023	175.833
	M180x4	6g	179.940	179.465	177.342	177.092
	M180x4	4g6g	179.940	179.465	177.342	177.182
	M180x3	6g	179.952	179.577	178.003	177.779
	M180x3	4g6g	179.952	179.577	178.003	177.863
	M180x2	6g	179.962	179.682	178.663	178.473
	M180x2	4g6g	179.962	179.682	178.663	178.543
185	M185x6	6g	184.920	184.320	181.023	180.708
	M185x6	4g6g	184.920	184.320	181.023	180.823

	M185x4	6g	184.940	184.465	182.342	182.062
	M185x4	4g6g	184.940	184.465	182.342	182.162
	M185x3	6g	184.952	184.577	183.003	182.753
	M185x3	4g6g	184.952	184.577	183.003	182.843
	M185x2	6g	184.962	184.682	183.663	183.451
	M185x2	4g6g	184.962	184.682	183.663	183.531
190	M190x8	6g	189.900	189.190	184.704	184.349
	M190x8	4g6g	189.900	189.190	184.704	184.480
	M190x6	6g	189.920	189.320	186.023	185.708
	M190x6	4g6g	189.920	189.320	186.023	185.823
	M190x4	6g	189.940	189.465	187.342	187.062
	M190x4	4g6g	189.940	189.465	187.342	187.162
	M190x3	6g	189.952	189.577	188.003	187.753
	M190x3	4g6g	189.952	189.577	188.003	187.843
	M190x2	6g	189.962	189.682	188.663	188.451
	M190x2	4g6g	189.962	189.682	188.663	188.531
195	M195x6	6g	194.920	194.320	191.023	190.708
	M195x6	4g6g	194.920	194.320	191.023	190.823
	M195x4	6g	194.940	194.465	192.342	192.062
	M195x4	4g6g	194.940	194.465	192.342	192.162
	M195x3	6g	194.952	194.577	193.003	192.753
	M195x3	4g6g	194.952	194.577	193.003	192.843
	M195x2	6g	194.962	194.682	193.663	193.451
	M195x2	4g6g	194.962	194.682	193.663	193.531
200	M200x8	6g	199.900	199.190	194.704	194.349
	M200x8	4g6g	199.900	199.190	194.704	194.480
	M200x6	6g	199.920	199.320	196.023	195.708
	M200x6	4g6g	199.920	199.320	196.023	195.823
	M200x4	6g	199.940	199.465	197.342	197.062
	M200x4	4g6g	199.940	199.465	197.342	197.162
	M200x3	6g	199.952	199.577	198.003	197.753
	M200x3	4g6g	199.952	199.577	198.003	197.843
	M200x2	6g	199.962	199.682	198.663	198.451
	M200x2	4g6g	199.962	199.682	198.663	198.531
205	M205x6	6g	204.920	204.320	201.023	200.708
	M205x6	4g6g	204.920	204.320	201.023	200.823
	M205x4	6g	204.940	204.465	202.342	202.062
	M205x4	4g6g	204.940	204.465	202.342	202.162
	M205x3	6g	204.952	204.577	203.003	202.753
	M205x3	4g6g	204.952	204.577	203.003	202.843
	M205x2	6g	204.962	204.682	203.663	203.451
	M205x2	4g6g	204.962	204.682	203.663	203.531
210	M210x8	6g	209.900	209.190	204.704	204.349
	M210x8	4g6g	209.900	209.190	204.704	204.480
	M210x6	6g	209.920	209.320	206.023	205.708
	M210x6	4g6g	209.920	209.320	206.023	205.823
	M210x4	6g	209.940	209.465	207.342	207.062
	M210x4	4g6g	209.940	209.465	207.342	207.162
	M210x3	6g	209.952	209.577	208.003	207.753
	M210x3	4g6g	209.952	209.577	208.003	207.843
	M210x2	6g	209.962	209.682	208.663	208.451
	M210x2	4g6g	209.962	209.682	208.663	208.531
215	M215x6	6g	214.920	214.320	211.023	210.708
	M215x6	4g6g	214.920	214.320	211.023	210.823
	M215x4	6g	214.940	214.465	212.342	212.062
	M215x4	4g6g	214.940	214.465	212.342	212.162

	M215x3	6g	214.952	214.577	213.003	212.753
	M215x3	4g6g	214.952	214.577	213.003	212.843
220	M220x8	6g	219.900	219.190	214.704	214.349
	M220x8	4g6g	219.900	219.190	214.704	214.480
	M220x6	6g	219.920	219.320	216.023	215.708
	M220x6	4g6g	219.920	219.320	216.023	215.823
	M220x4	6g	219.940	219.465	217.342	217.062
	M220x4	4g6g	219.940	219.465	217.342	217.162
	M220x3	6g	219.952	219.577	218.003	217.753
	M220x3	4g6g	219.952	219.577	218.003	217.843
	M220x2	6g	219.962	219.682	218.663	218.451
	M220x2	4g6g	219.962	219.682	218.663	218.531
225	M225x6	6g	224.920	224.545	221.023	220.708
	M225x6	4g6g	224.920	224.545	221.023	220.823
	M225x4	6g	224.940	224.465	222.342	222.062
	M225x4	4g6g	224.940	224.465	222.342	222.162
	M225x3	6g	224.952	224.577	223.003	222.753
	M225x3	4g6g	224.952	224.577	223.003	222.843
	M225x2	6g	224.962	224.682	223.663	223.451
	M225x2	4g6g	224.962	224.682	223.663	223.531
230	M230x6	6g	229.920	229.320	226.023	225.708
	M230x6	4g6g	229.920	229.320	226.023	225.823
	M230x4	6g	229.940	229.465	227.342	227.062
	M230x4	4g6g	229.940	229.465	227.342	227.162
	M230x3	6g	229.952	229.577	228.003	227.753
	M230x3	4g6g	229.952	229.577	228.003	227.843
	M230x2	6g	229.962	229.682	228.663	228.451
	M230x2	4g6g	229.962	229.682	228.663	228.531
235	M235x6	6g	234.920	234.320	231.023	230.668
	M235x6	4g6g	234.920	234.320	231.023	230.799
	M235x4	6g	234.940	234.465	232.342	232.062
	M235x4	4g6g	234.940	234.465	232.342	232.162
	M235x3	6g	234.952	234.577	233.003	232.753
	M235x3	4g6g	234.952	234.577	233.003	232.843
240	M240x8	6g	239.900	239.190	234.704	234.349
	M240x8	4g6g	239.900	239.190	234.704	234.480
	M240x6	6g	239.920	239.320	236.023	235.708
	M240x6	4g6g	239.920	239.320	236.023	235.823
	M240x4	6g	239.940	239.465	237.342	237.062
	M240x4	4g6g	239.940	239.465	237.342	237.162
	M240x3	6g	239.952	239.577	238.003	237.753
	M240x3	4g6g	239.952	239.577	238.003	237.843
	M240x2	6g	239.962	239.682	238.663	238.451
	M240x2	4g6g	239.962	239.682	238.663	238.531
245	M245x6	6g	244.920	244.320	241.023	240.708
	M245x6	4g6g	244.920	244.320	241.023	240.823
	M245x4	6g	244.940	244.465	242.342	242.062
	M245x4	4g6g	244.940	244.465	242.342	242.162
	M245x3	6g	244.952	244.577	243.003	242.753
	M245x3	4g6g	244.952	244.577	243.003	242.843
	M245x2	6g	244.962	244.682	243.663	243.451
	M245x2	4g6g	244.962	244.682	243.663	243.531
250	M250x8	6g	249.900	249.190	244.704	244.349
	M250x8	4g6g	249.900	249.190	244.704	244.480
	M250x6	6g	249.920	249.320	246.023	245.708
	M250x6	4g6g	249.920	249.320	246.023	245.823

	M250x4	6g	249.940	249.465	247.342	247.062
	M250x4	4g6g	249.940	249.465	247.342	247.162
	M250x3	6g	249.952	249.577	248.003	247.753
	M250x3	4g6g	249.952	249.577	248.003	247.843
	M250x2	6g	249.962	249.682	248.663	248.451
	M250x2	4g6g	249.962	249.682	248.663	248.531
255	M255x6	6g	254.920	254.320	251.023	250.668
	M255x6	4g6g	254.920	254.320	251.023	250.799
	M255x4	6g	254.940	254.465	252.342	252.062
	M255x4	4g6g	254.940	254.465	252.342	252.162
	M255x3	6g	254.952	254.577	253.003	252.753
	M255x3	4g6g	254.952	254.577	253.003	252.843
260	M260x8	6g	259.900	259.190	254.704	254.349
	M260x8	4g6g	259.900	259.190	254.704	254.480
	M260x6	6g	259.920	259.320	256.023	255.708
	M260x6	4g6g	259.920	259.320	256.023	255.823
	M260x4	6g	259.940	259.465	257.342	257.062
	M260x4	4g6g	259.940	259.465	257.342	257.162
	M260x3	6g	259.952	259.577	258.003	257.753
	M260x3	4g6g	259.952	259.577	258.003	257.843
265	M265x6	6g	264.920	264.320	261.023	260.708
	M265x6	4g6g	264.920	264.320	261.023	260.823
	M265x4	6g	264.940	264.465	262.342	262.062
	M265x4	4g6g	264.940	264.465	262.342	262.162
	M265x3	6g	264.952	264.577	263.003	262.753
	M265x3	4g6g	264.952	264.577	263.003	262.843
270	M270x6	6g	269.920	269.320	266.023	265.708
	M270x6	4g6g	269.920	269.320	266.023	265.823
	M270x4	6g	269.940	269.465	267.342	267.062
	M270x4	4g6g	269.940	269.465	267.342	267.162
	M270x3	6g	269.952	269.577	268.003	267.753
	M270x3	4g6g	269.952	269.577	268.003	267.843
275	M275x6	6g	274.920	274.320	271.023	270.708
	M275x6	4g6g	274.920	274.320	271.023	270.823
	M275x4	6g	274.940	274.465	272.342	272.062
	M275x4	4g6g	274.940	274.465	272.342	272.162
	M275x3	6g	274.952	274.577	273.003	272.753
	M275x3	4g6g	274.952	274.577	273.003	272.843
280	M280x8	6g	279.900	279.190	274.704	274.349
	M280x8	4g6g	279.900	279.190	274.704	274.480
	M280x6	6g	279.920	279.320	276.023	275.708
	M280x6	4g6g	279.920	279.320	276.023	275.823
	M280x4	6g	279.940	279.465	277.342	277.062
	M280x4	4g6g	279.940	279.465	277.342	277.162
	M280x3	6g	279.952	279.577	278.003	277.753
	M280x3	4g6g	279.952	279.577	278.003	277.843
285	M285x6	6g	284.920	284.320	281.023	280.708
	M285x6	4g6g	284.920	284.320	281.023	280.823
	M285x4	6g	284.940	284.465	282.342	282.062
	M285x4	4g6g	284.940	284.465	282.342	282.162
	M285x3	6g	284.952	284.577	283.003	282.753
	M285x3	4g6g	284.952	284.577	283.003	282.843
290	M290x6	6g	289.920	289.320	286.023	285.708
	M290x6	4g6g	289.920	289.320	286.023	285.823
	M290x4	6g	289.940	289.465	287.342	287.062
	M290x4	4g6g	289.940	289.465	287.342	287.162

	M290x3	6g	289.952	289.577	288.003	287.753
	M290x3	4g6g	289.952	289.577	288.003	287.843
295	M295x6	6g	294.920	294.320	291.023	290.708
	M295x6	4g6g	294.920	294.320	291.023	290.823
	M295x4	6g	294.940	294.465	292.342	292.062
	M295x4	4g6g	294.940	294.465	292.342	292.162
	M295x3	6g	294.952	294.577	293.003	292.753
	M295x3	4g6g	294.952	294.577	293.003	292.843
300	M300x8	6g	299.900	299.190	294.704	294.349
	M300x8	4g6g	299.900	299.190	294.704	294.480
	M300x6	6g	299.920	299.320	296.023	295.708
	M300x6	4g6g	299.920	299.320	296.023	295.823
	M300x4	6g	299.940	299.465	297.342	297.062
	M300x4	4g6g	299.940	299.465	297.342	297.162
	M300x3	6g	299.952	299.577	298.003	297.753
	M300x3	4g6g	299.952	299.577	298.003	297.843
310	M310x6	6g	309.920	309.320	306.023	305.708
	M310x6	4g6g	309.920	309.320	306.023	305.823
	M310x4	6g	309.940	309.465	307.342	307.062
	M310x4	4g6g	309.940	309.465	307.342	307.162
320	M320x6	6g	319.920	319.320	316.023	315.708
	M320x6	4g6g	319.920	319.320	316.023	315.823
	M320x4	6g	319.940	319.465	317.342	317.062
	M320x4	4g6g	319.940	319.465	317.342	317.162
330	M330x6	6g	329.920	329.320	326.023	325.708
	M330x6	4g6g	329.920	329.320	326.023	325.823
	M330x4	6g	329.940	329.465	327.342	327.062
	M330x4	4g6g	329.940	329.465	327.342	327.162
340	M330x6	6g	339.920	339.320	336.023	335.708
	M340x6	4g6g	339.920	339.320	336.023	335.823
	M340x4	6g	339.940	339.465	337.342	337.062
	M340x4	4g6g	339.940	339.465	337.342	337.162
350	M350x6	6g	349.920	349.320	346.023	345.708
	M350x6	4g6g	349.920	349.320	346.023	345.823
	M350x4	6g	349.940	349.465	347.342	347.062
	M350x4	4g6g	349.940	349.465	347.342	347.162
360	M360x6	6g	359.920	359.320	356.023	355.668
	M360x6	4g6g	359.920	359.320	356.023	355.799
	M360x4	6g	359.940	359.465	357.342	357.042
	M360x4	4g6g	359.940	359.465	357.342	357.152
370	M370x6	6g	369.920	369.320	366.023	365.668
	M370x6	4g6g	369.920	369.320	366.023	365.799
	M370x4	6g	369.940	369.465	367.342	367.042
	M370x4	4g6g	369.940	369.465	367.342	367.152
380	M380x6	6g	379.920	379.320	376.023	375.668
	M380x6	4g6g	379.920	379.320	376.023	375.799
	M380x4	6g	379.940	379.465	377.342	377.042
	M380x4	4g6g	379.940	379.465	377.342	377.152
390	M390x6	6g	389.920	389.320	386.023	385.668
	M390x6	4g6g	389.920	389.320	386.023	385.799
	M390x4	6g	389.940	389.465	387.342	387.042
	M390x4	4g6g	389.940	389.465	387.342	387.152
400	M400x6	6g	399.920	399.320	396.023	395.668
	M400x6	4g6g	399.920	399.320	396.023	395.799
	M400x4	6g	399.940	399.465	397.342	397.042
	M400x4	4g6g	399.940	399.465	397.342	397.152

410	M410x6	6g	409.920	409.320	406.023	405.668
	M410x6	4g6g	409.920	409.320	406.023	405.799
420	M420x6	6g	419.920	419.320	416.023	415.668
	M420x6	4g6g	419.920	419.320	416.023	415.799
430	M430x6	6g	429.920	429.320	426.023	425.668
	M430x6	4g6g	429.920	429.320	426.023	425.799
440	M440x6	6g	439.920	439.320	436.023	435.668
	M440x6	4g6g	439.920	439.320	436.023	435.799
450	M450x6	6g	449.920	449.320	446.023	445.668
	M450x6	4g6g	449.920	449.320	446.023	445.799
460	M460x6	6g	459.920	459.320	456.023	455.668
	M460x6	4g6g	459.920	459.320	456.023	455.799
470	M470x6	6g	469.920	469.320	466.023	465.668
	M470x6	4g6g	469.920	469.320	466.023	465.799
480	M480x6	6g	479.920	479.320	476.023	475.668
	M480x6	4g6g	479.920	479.320	476.023	475.799
490	M490x6	6g	489.920	489.320	486.023	485.668
	M490x6	4g6g	489.920	489.320	486.023	485.799
500	M500x6	6g	499.920	499.320	496.023	495.668
	M500x6	4g6g	499.920	499.320	496.023	495.799
510	M510x6	6g	509.920	509.320	506.023	505.668
	M510x6	4g6g	509.920	509.320	506.023	505.799
520	M520x6	6g	519.920	519.320	516.023	515.668
	M520x6	4g6g	519.920	519.320	516.023	515.799
530	M530x6	6g	529.920	529.320	526.023	525.668
	M530x6	4g6g	529.920	529.320	526.023	525.799
540	M540x6	6g	539.920	539.320	536.023	535.668
	M540x6	4g6g	539.920	539.320	536.023	535.799
550	M550x6	6g	549.920	549.320	546.023	545.668
	M550x6	4g6g	549.920	549.320	546.023	545.799
560	M560x6	6g	559.920	559.320	556.023	555.668
	M560x6	4g6g	559.920	559.320	556.023	555.799
570	M570x6	6g	569.920	569.320	566.023	565.668
	M570x6	4g6g	569.920	569.320	566.023	565.799
580	M580x6	6g	579.920	579.320	576.023	575.668
	M580x6	4g6g	579.920	579.320	576.023	575.799
590	M590x6	6g	589.920	589.320	586.023	585.668
	M590x6	4g6g	589.920	589.320	586.023	585.799
600	M600x6	6g	599.920	599.320	596.023	595.668
	M600x6	4g6g	599.920	599.320	596.023	595.799
1060	M1060x8	6g	1059.900	1059.190	1054.704	1054.279
	M1060x8	4g6g	1059.900	1059.190	1054.704	1054.439

Minor Dia		Class	Internal			
Max	Min		Minor Dia		Pitch Dia	
			Min	Max	Min	Max
0.160	0.140	6H	0.172	0.208	0.201	0.215
0.160	0.152					
0.204	0.183	6H	0.217	0.254	0.248	0.262
0.204	0.195					
0.192	0.170	6H	0.206	0.247	0.242	0.257
0.192	0.183					
0.242	0.220	6H	0.256	0.297	0.292	0.307
0.242	0.233					
0.280	0.256	6H	0.296	0.340	0.335	0.351
0.280	0.270					
0.330	0.306	6H	0.346	0.390	0.385	0.401
0.330	0.320					
0.350	0.322	6H	0.370	0.422	0.419	0.437
0.350	0.339					
0.400	0.372	6H	0.420	0.472	0.469	0.487
0.400	0.389					
0.420	0.388	6H	0.444	0.504	0.503	0.523
0.420	0.407					
0.490	0.454	6H	0.518	0.586	0.586	0.608
0.490	0.476					
0.560	0.520	6H	0.592	0.668	0.670	0.694
0.560	0.545					
0.630	0.586	6H	0.666	0.750	0.754	0.780
0.630	0.614					
0.711	0.613	6H	0.729	0.809	0.838	0.909
0.711	0.633					
0.766	0.682	6H	0.783	0.858	0.870	0.933
0.766	0.700					
0.811	0.713	6H	0.829	0.909	0.938	1.009
0.811	0.734					
0.866	0.782	6H	0.883	0.958	0.970	1.033
0.866	0.800					
0.911	0.813	6H	0.929	1.009	1.038	1.109
0.911	0.833					
0.966	0.882	6H	0.983	1.058	1.070	1.133
0.966	0.900					
1.166	1.070	6H	1.183	1.258	1.270	1.350
1.166	1.092					
1.166	1.082	6H	1.183	1.258	1.270	1.333
1.166	1.100					
1.202	1.075	6H	1.221	1.321	1.373	1.458
1.202	1.098					
1.366	1.280	6H	1.3834936	1.4584936	1.4700962	1.5370962
1.366	1.298					
1.302	1.175	6H	1.321	1.421	1.473	1.558
1.302	1.198					
1.402	1.275	6H	1.421	1.521	1.573	1.658
1.402	1.298					
1.566	1.480	6H	1.583	1.658	1.670	1.737
1.566	1.498					
1.548	1.408	6H	1.567	1.679	1.740	1.830
1.548	1.433					
1.711	1.610	6H	1.729	1.809	1.838	1.913

1.711	1.630					
1.693	1.540	6H	1.713	1.838	1.908	2.003
1.693	1.566					
1.911	1.810	6H	1.929	2.009	2.038	2.113
1.911	1.830					
1.793	1.640	6H	1.813	1.938	2.008	2.103
1.793	1.666					
1.848	1.708	6H	1.867	1.979	2.040	2.130
1.848	1.733					
1.993	1.840	6H	2.013	2.138	2.208	2.303
1.993	1.866					
2.102	1.975	6H	2.121	2.221	2.273	2.358
2.102	1.998					
2.093	1.940	6H	2.113	2.238	2.308	2.393
2.093	1.966					
2.439	2.272	6H	2.459	2.599	2.675	2.775
2.439	2.299					
2.602	2.471	6H	2.621	2.721	2.773	2.863
2.602	2.496					
2.829	2.635	6H	2.850	3.010	3.110	3.222
2.829	2.667					
3.102	2.971	6H	3.121	3.221	3.273	3.363
3.102	2.996					
3.220	3.002	6H	3.242	3.422	3.545	3.663
3.220	3.036					
3.439	3.272	6H	3.459	3.599	3.675	3.775
3.439	3.299					
3.666	3.439	6H	3.688	3.878	4.013	4.131
3.666	3.473					
3.939	3.772	6H	3.959	4.099	4.175	4.275
3.939	3.799					
4.110	3.869	6H	4.134	4.334	4.480	4.605
4.110	3.904					
4.439	4.272	6H	4.459	4.599	4.675	4.775
4.439	4.299					
4.939	4.757	6H	4.959	5.099	5.175	5.295
4.939	4.791					
4.891	4.596	6H	4.917	5.153	5.350	5.500
4.891	4.637					
5.166	4.929	6H	5.188	5.378	5.513	5.645
5.166	4.966					
5.220	4.997	6H	5.242	5.422	5.545	5.671
5.220	5.032					
5.439	5.262	6H	5.459	5.599	5.675	5.787
5.439	5.294					
5.891	5.596	6H	5.917	6.153	6.350	6.500
5.891	5.637					
6.166	5.929	6H	6.188	6.378	6.513	6.645
6.166	5.966					
6.439	6.262	6H	6.459	6.599	6.675	6.787
6.439	6.294					
6.619	6.272	6H	6.647	6.912	7.188	7.348
6.619	6.315					
6.891	6.596	6H	6.917	7.153	7.350	7.500
6.891	6.637					
7.110	6.858	6H	7.134	7.334	7.480	7.620

7.110	6.897					
7.166	6.929	6H	7.188	7.378	7.513	7.645
7.166	6.966					
7.439	7.262	6H	7.459	7.599	7.675	7.787
7.439	7.294					
7.619	7.272	6H	7.647	7.912	8.188	8.348
7.619	7.315					
7.891	7.596	6H	7.917	8.153	8.350	8.498
7.891	7.637					
8.166	7.929	6H	8.188	8.378	8.513	8.645
8.166	7.966					
8.439	8.262	6H	8.459	8.599	8.675	8.787
8.439	8.294					
8.344	7.938	6H	8.376	8.676	9.026	9.206
8.344	7.985					
8.619	8.272	6H	8.647	8.912	9.188	9.348
8.619	8.315					
8.761	8.438	6H	8.788	9.038	9.273	9.433
8.761	8.481					
8.891	8.596	6H	8.917	9.153	9.350	9.500
8.891	8.637					
9.166	8.929	6H	9.188	9.378	9.513	9.645
9.166	8.966					
9.439	9.262	6H	9.459	9.599	9.675	9.787
9.439	9.294					
9.344	8.938	6H	9.376	9.676	10.026	10.196
9.344	8.987					
9.891	9.596	6H	9.917	10.153	10.350	10.500
9.891	9.637					
10.166	9.929	6H	10.188	10.378	10.513	10.645
10.166	9.966					
10.439	10.262	6H	10.459	10.599	10.675	10.787
10.439	10.294					
10.072	9.601	6H	10.106	10.441	10.863	11.063
10.072	9.656					
10.344	9.930	6H	10.376	10.676	11.026	11.216
10.619	10.258	6H	10.647	10.912	11.188	11.368
10.619	10.305					
10.891	10.590	6H	10.917	11.153	11.350	11.510
10.891	10.633					
11.166	10.923	6H	11.188	11.378	11.513	11.653
11.166	10.962					
11.439	11.257	6H	11.459	11.599	11.675	11.795
11.439	11.290					
11.797	11.271	6H	11.835	12.210	12.701	12.913
11.797	11.331					
12.344	11.930	6H	12.376	12.676	13.026	13.216
12.344	11.980					
12.619	12.258	6H	12.647	12.912	13.188	13.358
12.619	12.305					
12.891	12.590	6H	12.917	13.153	13.350	13.510
12.891	12.634					
13.166	12.923	6H	13.188	13.378	13.513	13.653
13.166	12.962					
13.439	13.257	6H	13.459	13.599	13.675	13.795
13.439	13.290					

13.344	12.930	6H	13.376	13.676	14.026	14.216
13.344	12.980					
13.891	13.590	6H	13.917	14.153	14.350	14.510
13.891	13.633					
13.797	13.271	6H	13.835	14.210	14.701	14.913
13.797	13.331					
14.344	13.930	6H	14.376	14.676	15.026	15.216
14.344	13.980					
14.619	14.258	6H	14.647	14.912	15.188	15.358
14.619	14.305					
14.891	14.590	6H	14.917	15.153	15.350	15.510
14.891	14.633					
15.166	14.923	6H	15.188	15.378	15.513	15.653
15.166	14.962					
15.439	15.257	6H	15.459	15.599	15.675	15.795
15.439	15.291					
15.344	14.930	6H	15.376	15.676	16.026	16.216
15.344	14.980					
15.891	15.590	6H	15.917	16.153	16.350	16.510
15.891	15.633					
15.252	14.624	6H	15.294	15.744	16.376	16.601
15.252	14.688					
15.797	15.271	6H	15.835	16.210	16.701	16.913
15.797	15.331					
16.344	15.930	6H	16.376	16.676	17.026	17.216
16.344	15.980					
16.619	16.258	6H	16.647	16.912	17.188	17.358
16.619	16.305					
16.891	16.590	6H	16.917	17.153	17.350	17.510
16.891	16.633					
17.166	16.923	6H	17.188	17.378	17.513	17.653
17.166	16.962					
17.439	17.257	6H	17.459	17.599	17.675	17.795
17.439	17.291					
17.252	16.624	6H	17.294	17.744	18.376	18.600
17.252	16.688					
17.797	17.271	6H	17.835	18.210	18.701	18.913
17.797	17.330					
18.344	17.930	6H	18.376	18.676	19.026	19.216
18.344	17.980					
18.891	18.590	6H	18.917	19.153	19.350	19.510
18.891	18.633					
19.166	18.923	6H	19.188	19.378	19.513	19.653
19.166	18.962					
19.439	19.257	6H	19.459	19.599	19.675	19.795
19.439	19.291					
18.704	17.970	6H	18.752	19.252	20.051	20.296
18.704	18.037					
19.252	18.624	6H	19.294	19.744	20.376	20.600
19.252	18.694					
19.797	19.271	6H	19.835	20.210	20.701	20.913
19.797	19.331					
20.344	19.930	6H	20.376	20.676	21.026	21.216
20.344	19.980					
20.891	20.590	6H	20.917	21.153	21.350	21.510
20.891	20.633					

21.166	20.923	6H	21.188	21.378	21.513	21.653
21.166	20.962					
21.439	21.257	6H	21.459	21.599	21.675	21.795
21.439	21.290					
20.704	19.955	6H	20.752	21.252	22.051	22.316
20.704	20.030					
21.252	20.604	6H	21.294	21.744	22.376	22.626
21.252	20.674					
21.797	21.261	6H	21.835	22.210	22.701	22.925
21.797	21.325					
22.344	21.920	6H	22.376	22.676	23.026	23.226
22.344	21.975					
22.891	22.583	6H	22.917	23.153	23.350	23.520
22.891	22.628					
23.166	22.917	6H	23.188	23.378	23.513	23.663
23.166	22.958					
22.797	22.261	6H	22.835	23.210	23.701	23.925
22.797	22.325					
23.344	22.920	6H	23.376	23.676	24.026	24.226
23.344	22.975					
23.891	23.583	6H	23.917	24.153	24.350	24.520
23.891	23.628					
24.344	23.920	6H	24.376	24.676	25.026	25.226
24.344	23.975					
23.704	22.955	6H	23.752	24.252	25.051	25.316
23.704	23.030					
24.797	24.261	6H	24.835	25.210	25.701	25.925
24.797	24.325					
25.344	24.920	6H	25.376	25.676	26.026	26.226
25.344	24.975					
25.891	25.583	6H	25.917	26.153	26.350	26.520
25.891	25.628					
26.166	25.917	6H	26.188	26.378	26.513	26.663
26.166	25.958					
25.797	25.261	6H	25.835	26.210	26.701	26.925
25.797	25.325					
26.344	25.920	6H	26.376	26.676	27.026	27.226
26.344	25.975					
26.891	26.583	6H	26.917	27.153	27.350	27.520
26.891	26.628					
26.158	25.306	6H	26.211	26.771	27.727	28.007
26.158	25.386					
26.704	25.955	6H	26.752	27.252	28.051	28.316
26.704	26.030					
27.252	26.604	6H	27.294	27.744	28.376	28.626
27.252	26.674					
27.797	27.261	6H	27.835	28.210	28.701	28.925
27.797	27.325					
28.344	27.920	6H	28.376	28.676	29.026	29.226
28.344	27.975					
28.891	28.583	6H	28.917	29.153	29.350	29.520
28.891	28.628					
29.166	28.917	6H	29.188	29.378	29.513	29.663
29.166	28.958					
29.797	29.261	6H	29.835	30.210	30.701	30.925
29.797	29.325					

30.344	29.920	6H	30.376	30.676	31.026	31.226
30.344	29.975					
29.179	28.327	6H	29.211	29.771	30.727	31.007
29.179	28.407					
29.704	28.955	6H	29.752	30.252	31.051	31.316
29.704	29.030					
30.797	30.261	6H	30.835	31.210	31.701	31.925
30.797	30.325					
31.344	30.920	6H	31.376	31.676	32.026	32.226
31.344	30.975					
31.891	31.583	6H	31.917	32.153	32.350	32.520
31.891	31.628					
32.166	31.917	6H	32.188	32.378	32.513	32.663
32.166	31.958					
33.344	33.920	6H	33.376	33.676	34.026	34.226
33.344	32.975					
31.610	30.654	6H	31.670	32.270	33.402	33.702
31.610	30.738					
32.704	31.955	6H	32.752	33.252	34.051	34.316
32.704	32.030					
33.797	33.261	6H	33.835	34.210	34.701	34.925
33.797	33.325					
34.344	33.920	6H	34.376	34.676	35.026	35.226
34.344	33.975					
34.891	34.583	6H	34.917	35.153	35.350	35.520
34.891	34.628					
36.344	35.920	6H	36.376	36.676	37.026	37.226
36.344	35.975					
34.610	33.654	6H	34.670	35.270	36.402	36.702
34.610	33.738					
35.704	34.955	6H	35.752	36.252	37.051	37.316
35.704	35.030					
36.797	36.261	6H	36.835	37.210	37.701	37.925
36.797	36.325					
37.344	36.920	6H	37.376	37.676	38.026	38.226
37.344	36.975					
37.891	37.583	6H	37.917	38.153	38.350	38.520
37.891	37.628					
36.704	35.955	6H	36.752	37.252	38.051	38.316
36.704	36.030					
37.252	36.604	6H	37.294	37.744	38.376	38.626
37.252	36.674					
37.797	37.261	6H	37.835	38.210	38.701	38.925
37.797	37.325					
38.344	37.920	6H	38.376	38.676	39.026	39.226
38.344	37.975					
37.066	36.006	6H	37.129	37.799	39.077	39.392
37.066	36.092					
37.610	36.654	6H	37.670	38.270	39.402	39.702
37.610	36.738					
38.704	37.955	6H	38.752	39.252	40.051	40.316
38.704	38.030					
39.797	39.261	6H	39.835	40.210	40.701	40.925
39.797	39.325					
40.344	39.920	6H	40.376	40.676	41.026	41.226
40.344	39.975					

40.891	40.583	6H	40.917	41.153	41.350	41.520
40.891	40.628					
40.066	39.006	6H	40.129	40.799	42.077	42.392
40.066	39.092					
40.610	39.654	6H	40.670	41.270	42.402	42.702
40.610	39.738					
41.704	40.955	6H	41.752	42.252	43.051	43.316
41.704	41.030					
42.797	42.261	6H	42.835	43.210	43.701	43.925
42.797	42.325					
43.344	42.920	6H	43.376	43.676	44.026	44.226
43.344	42.975					
43.891	43.583	6H	43.917	44.153	44.350	44.520
43.891	43.628					
42.516	41.351	6H	42.587	43.297	44.752	45.087
42.516	41.441					
43.610	42.642	6H	43.670	44.270	45.402	45.717
43.610	42.728					
44.704	43.943	6H	44.752	45.252	46.051	46.331
44.704	44.023					
45.797	45.251	6H	45.835	46.210	46.701	46.937
45.797	45.319					
46.344	45.910	6H	46.376	46.676	47.026	47.238
46.344	45.970					
45.610	44.642	6H	45.670	46.270	47.402	47.717
45.610	44.728					
46.704	45.943	6H	46.752	47.252	48.051	48.331
46.704	46.023					
47.797	47.251	6H	47.835	48.210	48.701	48.937
47.797	47.319					
48.344	47.910	6H	48.376	48.676	49.026	49.238
48.344	47.970					
46.516	45.365	6H	46.587	47.297	48.752	49.067
46.516	45.451					
47.610	46.642	6H	47.670	48.270	49.402	49.717
47.610	46.728					
48.704	47.943	6H	48.752	49.252	50.051	50.331
48.704	48.023					
49.797	49.251	6H	49.835	50.210	50.701	50.937
49.797	49.319					
50.344	49.910	6H	50.376	50.676	51.026	51.238
50.344	49.970					
50.610	49.642	6H	50.670	51.270	52.402	52.717
50.610	49.728					
51.704	50.943	6H	51.752	52.252	53.051	53.331
51.704	51.023					
52.797	52.251	6H	52.835	53.210	53.701	53.937
52.797	52.319					
53.344	52.910	6H	53.376	53.676	54.026	54.238
53.344	52.970					
48.879	47.389	6H	48.964	49.814	51.778	52.178
48.879	47.499					
49.971	48.700	6H	50.046	50.796	52.428	52.783
49.971	48.795					
51.610	50.642	6H	51.670	52.270	53.402	53.717
51.610	50.728					

52.704	51.943	6H	52.752	53.252	54.051	54.331
52.704	52.023					
53.797	53.251	6H	53.835	54.210	54.701	54.937
53.797	53.319					
54.344	53.910	6H	54.376	54.676	55.026	55.238
54.344	53.970					
54.891	54.568	6H	54.917	55.153	55.350	55.540
54.891	54.618					
53.610	52.642	6H	53.670	54.270	55.402	55.717
53.610	52.728					
54.704	53.943	6H	54.752	55.252	56.051	56.331
54.704	54.023					
55.797	55.251	6H	55.835	56.210	56.701	56.937
55.797	55.319					
56.344	55.910	6H	56.376	56.676	57.026	57.238
56.344	55.970					
53.971	52.700	6H	54.046	54.796	56.428	56.783
53.971	52.795					
55.610	54.642	6H	55.670	56.270	57.402	57.717
55.610	54.728					
56.704	55.943	6H	56.752	57.252	58.051	58.331
56.704	56.023					
57.797	57.251	6H	57.835	58.210	58.701	58.937
57.797	57.319					
58.344	57.910	6H	58.376	58.676	59.026	59.238
58.344	57.970					
58.891	58.568	6H	58.917	59.153	59.350	59.540
58.891	58.618					
57.610	56.642	6H	57.670	58.270	59.402	59.717
57.610	56.728					
58.704	57.943	6H	58.752	59.252	60.051	60.331
58.704	58.023					
59.797	59.251	6H	59.835	60.210	60.701	60.937
59.797	59.319					
60.344	59.910	6H	60.376	60.676	61.026	61.238
60.344	59.970					
61.344	60.910	6H	61.376	61.676	62.026	62.238
61.344	60.970					
57.425	56.047	6H	57.505	58.305	60.103	60.478
57.425	56.147					
57.971	56.700	6H	58.046	58.796	60.428	60.783
57.971	56.795					
59.610	58.642	6H	59.670	60.270	61.402	61.717
59.610	58.728					
60.704	59.943	6H	60.752	61.252	62.051	62.331
60.704	60.023					
61.797	61.251	6H	61.835	62.210	62.701	62.937
61.797	61.319					
62.344	61.910	6H	62.376	62.676	63.026	63.238
62.344	61.970					
62.891	62.568	6H	62.917	63.153	63.350	63.540
62.891	62.618					
60.610	59.642	6H	60.670	61.270	62.402	62.717
60.610	59.728					
61.704	60.943	6H	61.752	62.252	63.051	63.331
61.704	61.023					

62.797	62.251	6H	62.835	63.210	63.701	63.937
62.797	62.319					
63.344	62.910	6H	63.376	63.676	64.026	64.238
63.344	62.970					
61.425	60.047	6H	61.505	62.305	64.103	64.478
61.425	60.147					
63.610	62.642	6H	63.670	64.270	65.402	65.717
63.610	62.728					
64.704	63.943	6H	64.752	65.252	66.051	66.331
64.704	64.023					
65.797	65.251	6H	65.835	66.210	66.701	66.937
65.797	65.319					
66.344	65.910	6H	66.376	66.676	67.026	67.238
66.344	65.970					
66.891	66.568	6H	66.917	67.153	67.350	67.540
66.891	66.618					
63.425	62.047	6H	63.505	64.305	66.103	66.478
63.425	62.147					
65.610	64.642	6H	65.670	66.270	67.402	67.717
65.610	64.728					
66.704	65.943	6H	66.752	67.252	68.051	68.331
66.704	66.023					
67.797	67.251	6H	67.835	68.210	68.701	68.937
67.797	67.319					
68.344	67.910	6H	68.376	68.676	69.026	69.238
68.344	67.970					
65.425	64.047	6H	65.505	66.305	68.103	68.478
65.425	64.147					
67.610	66.642	6H	67.670	68.270	69.402	69.717
67.610	66.728					
68.704	67.943	6H	68.752	69.252	70.051	70.331
68.704	68.023					
69.797	69.251	6H	69.835	70.210	70.701	70.937
69.797	69.319					
70.344	69.910	6H	70.376	70.676	71.026	71.238
70.344	69.970					
70.891	70.568	6H	70.917	71.153	71.350	71.540
70.891	70.618					
68.425	67.047	6H	68.505	69.305	71.103	71.478
68.425	67.147					
70.610	69.642	6H	70.670	71.270	72.402	72.717
70.610	69.728					
71.704	70.943	6H	71.752	72.252	73.051	73.331
71.704	71.023					
72.797	72.251	6H	72.835	73.210	73.701	73.937
72.797	72.319					
73.344	72.910	6H	73.376	73.676	74.026	74.238
73.344	72.970					
69.425	68.047	6H	69.505	70.305	72.103	72.478
69.425	68.147					
71.610	70.642	6H	71.670	72.270	73.402	73.717
71.610	70.728					
72.704	71.943	6H	72.752	73.252	74.051	74.331
72.704	72.023					
73.797	73.251	6H	73.835	74.210	74.701	74.937
73.797	73.319					

74.344	73.910	6H	74.376	74.676	75.026	75.238
74.344	73.970					
74.891	74.568	6H	74.917	75.153	75.350	75.540
74.891	74.618					
75.797	75.251	6H	75.835	76.210	76.701	76.937
75.797	75.319					
73.425	72.047	6H	73.505	74.305	76.103	76.478
73.425	72.147					
75.610	74.642	6H	75.670	76.270	77.402	77.717
75.610	74.728					
76.704	75.943	6H	76.752	77.252	78.051	78.331
76.704	76.023					
77.797	77.251	6H	77.835	78.210	78.701	78.937
77.797	77.319					
78.344	77.910	6H	78.376	78.676	79.026	79.238
78.344	77.970					
78.891	78.568	6H	78.917	79.153	79.350	79.540
78.891	78.618					
79.797	79.251	6H	79.835	80.210	80.701	80.937
79.797	79.319					
78.425	77.047	6H	78.505	79.305	81.103	81.478
78.425	77.147					
80.610	79.642	6H	80.670	81.270	82.402	82.717
80.610	79.728					
81.704	80.943	6H	81.752	82.252	83.051	83.331
81.704	81.023					
82.797	82.251	6H	82.835	83.210	83.701	83.937
82.797	82.319					
83.344	82.910	6H	83.376	83.676	84.026	84.238
83.344	82.970					
83.425	82.047	6H	83.505	84.305	86.103	86.478
83.425	82.147					
85.610	84.642	6H	85.670	86.270	87.402	87.717
85.610	84.728					
86.704	85.943	6H	86.752	87.252	88.051	88.331
86.704	86.023					
87.797	87.251	6H	87.835	88.210	88.701	88.937
87.797	87.319					
88.344	87.910	6H	88.376	88.676	89.026	89.238
88.344	87.970					
88.425	87.027	6H	88.505	89.305	91.103	91.503
88.425	87.137					
90.610	89.628	6H	90.670	91.270	92.402	92.737
90.610	89.718					
91.704	90.931	6H	91.752	92.252	93.051	93.351
91.704	91.015					
92.797	92.241	6H	92.835	93.210	93.701	93.951
92.797	92.313					
93.344	92.890	6H	93.376	93.676	94.026	94.262
93.344	92.958					
93.425	92.027	6H	93.505	94.305	96.103	96.503
93.425	92.137					
95.610	94.628	6H	95.670	96.270	97.402	97.737
95.610	94.718					
96.704	95.931	6H	96.752	97.252	98.051	98.351
96.704	96.015					

97.797	97.241	6H	97.835	98.210	98.701	98.951
97.797	97.313					
98.344	97.890	6H	98.376	98.676	99.026	99.262
98.344	97.958					
98.425	97.027	6H	98.505	99.305	101.103	101.503
98.425	97.137					
100.610	99.628	6H	100.670	101.270	102.402	102.737
100.610	99.718					
101.704	100.931	6H	101.752	102.252	103.051	103.351
101.704	101.015					
102.797	102.241	6H	102.835	103.210	103.701	103.951
102.797	102.313					
103.344	102.890	6H	103.376	103.676	104.026	104.262
103.344	102.958					
103.425	102.027	6H	103.505	104.305	106.103	106.503
103.425	102.137					
105.610	104.628	6H	105.670	106.270	107.402	107.737
105.610	104.718					
106.704	105.931	6H	106.752	107.252	108.051	108.351
106.704	106.015					
107.797	107.241	6H	107.835	108.210	108.701	108.951
107.797	107.313					
108.344	107.890	6H	108.376	108.676	109.026	109.262
108.344	107.958					
108.425	107.027	6H	108.505	109.305	111.103	111.503
108.425	107.137					
110.610	109.628	6H	110.670	111.270	112.402	112.737
110.610	109.718					
111.704	110.931	6H	111.752	112.252	113.051	113.351
111.704	111.015					
112.797	112.241	6H	112.835	113.210	113.701	113.951
112.797	112.311					
113.344	112.890	6H	113.376	113.676	114.026	114.262
113.344	112.958					
113.425	112.027	6H	113.505	114.305	116.103	116.503
113.425	112.137					
115.610	114.628	6H	115.670	116.270	117.402	117.737
115.610	114.718					
116.704	115.931	6H	116.752	117.252	118.051	118.351
116.704	116.015					
117.797	117.241	6H	117.835	118.210	118.701	118.951
117.797	117.313					
118.344	117.890	6H	118.376	118.676	119.026	119.262
118.344	117.958					
116.240	114.441	6H	116.340	117.340	119.804	120.254
116.240	114.564					
118.425	117.027	6H	118.505	119.305	121.103	121.503
118.425	117.137					
120.610	119.628	6H	120.670	121.270	122.402	122.737
120.610	119.718					
121.704	120.931	6H	121.752	122.252	123.051	123.351
121.704	121.015					
122.797	122.241	6H	122.835	123.210	123.701	123.951
122.797	122.311					
123.344	122.890	6H	123.376	123.676	124.026	124.262
123.344	122.958					

121.240	119.441	6H	121.340	122.340	124.804	125.254
121.240	119.564					
123.425	122.027	6H	123.505	124.305	126.103	126.503
123.425	122.137					
125.610	124.628	6H	125.670	126.270	127.402	127.737
125.610	124.718					
126.704	125.931	6H	126.752	127.252	128.051	128.351
126.704	126.015					
127.797	127.241	6H	127.835	128.210	128.701	128.951
137.797	137.313					
128.344	127.890	6H	128.376	128.676	129.026	129.262
128.344	127.958					
128.425	127.027	6H	128.505	129.305	131.103	131.503
128.425	127.137					
130.610	129.628	6H	130.670	131.270	132.402	132.737
130.610	129.718					
131.704	130.931	6H	131.752	132.252	133.051	133.351
131.704	131.015					
132.797	132.241	6H	132.835	133.210	133.701	133.951
132.797	132.311					
133.344	132.890	6H	133.376	133.676	134.026	134.262
133.344	132.958					
131.240	129.441	6H	131.340	132.340	134.804	135.254
131.240	129.564					
133.425	132.027	6H	133.505	134.305	136.103	136.503
133.425	132.137					
135.610	134.628	6H	135.670	136.270	137.402	137.737
135.610	134.718					
136.704	135.931	6H	136.752	137.252	138.051	138.351
136.704	136.015					
137.797	137.241	6H	137.835	138.210	138.701	138.951
137.797	137.313					
138.344	137.890	6H	138.376	138.676	139.026	139.262
138.344	137.958					
138.425	137.027	6H	138.505	139.305	141.103	141.503
138.425	137.137					
140.610	139.628	6H	140.670	141.270	142.402	142.737
140.610	139.718					
141.704	140.931	6H	141.752	142.252	143.051	143.351
141.704	141.015					
142.797	142.241	6H	142.835	143.210	143.701	143.951
142.797	142.311					
143.344	142.890	6H	143.376	143.676	144.026	144.262
143.344	142.958					
141.240	139.441	6H	141.340	142.340	144.804	145.254
141.240	139.564					
143.425	142.027	6H	143.505	144.305	146.103	146.503
143.425	142.137					
145.610	144.628	6H	145.670	146.270	147.402	147.737
145.610	144.718					
146.704	145.931	6H	146.752	147.252	148.051	148.351
146.704	146.015					
147.797	147.241	6H	147.835	148.210	148.701	148.951
147.797	147.313					
148.344	147.890	6H	148.376	148.676	149.026	149.262
148.344	147.958					

148.425	147.027	6H	148.505	149.305	151.103	151.503
148.425	147.137					
150.610	149.628	6H	150.670	151.270	152.402	152.737
150.610	149.718					
151.704	150.931	6H	151.752	152.252	153.051	153.351
151.704	151.015					
152.797	152.241	6H	152.835	153.210	153.701	153.951
152.797	152.311					
151.240	149.441	6H	151.340	152.340	154.804	155.254
151.240	149.564					
153.425	152.027	6H	153.505	154.305	156.103	156.503
153.425	152.137					
155.610	154.628	6H	155.670	156.270	157.402	157.737
155.610	154.718					
156.704	155.931	6H	156.752	157.252	158.051	158.351
156.704	156.015					
157.797	157.241	6H	157.835	158.210	158.701	158.951
157.797	157.311					
158.425	157.027	6H	158.505	159.305	161.103	161.503
158.425	157.137					
160.610	159.628	6H	160.670	161.270	162.402	162.737
160.610	159.718					
161.704	160.931	6H	161.752	162.252	163.051	163.351
161.704	161.015					
162.797	162.241	6H	162.835	163.210	163.701	163.951
162.797	162.311					
161.240	159.441	6H	161.340	162.340	164.804	165.254
161.240	159.564					
163.425	162.027	6H	163.505	164.305	166.103	166.503
163.425	162.137					
165.610	164.628	6H	165.670	166.270	167.402	167.737
165.610	164.718					
166.704	165.931	6H	166.752	167.252	168.051	168.351
166.704	166.015					
167.797	167.241	6H	167.835	168.210	168.701	168.951
167.797	167.311					
168.425	167.027	6H	168.505	169.305	171.103	171.503
168.425	167.137					
170.610	169.628	6H	170.670	171.270	172.402	172.737
170.610	169.718					
171.704	170.931	6H	171.752	172.252	173.051	173.351
171.704	171.014					
172.797	172.241	6H	172.835	173.210	173.701	173.951
172.797	172.311					
171.240	169.441	6H	171.340	172.340	174.804	175.254
171.240	169.564					
173.425	172.027	6H	173.505	174.305	176.103	176.503
173.425	172.137					
175.610	174.628	6H	175.670	176.270	177.402	177.737
175.610	174.718					
176.704	175.931	6H	176.752	177.252	178.051	178.351
176.704	176.015					
177.797	177.241	6H	177.835	178.210	178.701	178.951
177.797	177.311					
178.425	177.012	6H	178.505	179.305	181.103	181.528
178.425	177.127					

180.610	179.598	6H	180.670	181.270	182.402	182.777
180.610	179.698					
181.704	180.905	6H	181.752	182.252	183.051	183.386
181.704	180.995					
182.797	182.219	6H	182.835	183.210	183.701	183.981
182.797	182.299					
181.240	179.421	6H	181.340	182.340	184.804	185.279
181.240	179.552					
183.425	182.012	6H	183.505	184.305	186.103	186.528
183.425	182.127					
185.610	184.598	6H	185.670	186.270	187.402	187.777
185.610	184.698					
186.704	185.905	6H	186.752	187.252	188.051	188.386
186.704	185.995					
187.797	187.219	6H	187.835	188.210	188.701	188.981
187.797	187.299					
188.425	187.012	6H	188.505	189.305	191.103	191.528
188.425	187.127					
190.610	189.598	6H	190.670	191.270	192.402	192.777
190.610	189.698					
191.704	190.905	6H	191.752	192.252	193.051	193.386
191.704	190.995					
192.797	192.219	6H	192.835	193.210	193.701	193.981
192.797	192.299					
191.240	189.421	6H	191.340	192.340	194.804	195.279
191.240	189.552					
193.425	192.012	6H	193.505	194.305	196.103	196.528
193.425	192.127					
195.610	194.598	6H	195.670	196.270	197.402	197.777
195.610	194.698					
196.704	195.905	6H	196.752	197.252	198.051	198.386
196.704	195.995					
197.797	197.219	6H	197.835	198.210	198.701	198.981
197.797	197.299					
198.425	197.012	6H	198.505	199.305	201.103	201.528
198.425	197.127					
200.610	199.598	6H	200.670	201.270	202.402	202.777
200.610	199.698					
201.704	200.905	6H	201.752	202.252	203.051	203.386
201.704	200.995					
202.797	202.219	6H	202.835	203.210	203.701	203.981
202.797	202.299					
201.240	199.421	6H	201.340	202.340	204.804	205.279
201.240	199.552					
203.425	202.012	6H	203.505	204.305	206.103	206.528
203.425	202.127					
205.610	204.598	6H	205.670	206.270	207.402	207.777
205.610	204.698					
206.704	205.905	6H	206.752	207.252	208.051	208.386
206.704	205.995					
207.797	207.219	6H	207.835	208.210	208.701	208.981
207.797	207.299					
208.425	207.012	6H	208.505	209.305	211.103	211.528
208.425	207.127					
210.610	209.598	6H	210.670	211.270	212.402	212.777
210.610	209.698					

211.704	210.905	6H	211.752	212.252	213.051	213.386
211.704	210.995					
211.240	209.421	6H	211.340	212.340	214.804	215.279
211.240	209.552					
213.425	212.012	6H	213.505	214.305	216.103	216.528
213.425	212.127					
215.610	214.598	6H	215.670	216.270	217.402	217.777
215.610	214.698					
216.704	215.905	6H	216.752	217.252	218.051	218.386
216.704	215.995					
217.797	217.219	6H	217.835	218.210	218.701	218.981
217.797	217.299					
218.425	217.012	6H	218.505	219.305	221.103	221.528
218.425	217.127					
220.610	219.598	6H	220.670	221.270	222.402	222.777
220.610	219.698					
221.704	220.905	6H	221.752	222.252	223.051	223.386
221.704	220.995					
222.797	222.219	6H	222.835	223.210	223.701	223.981
222.797	222.299					
223.425	222.012	6H	223.505	224.305	226.103	226.528
223.425	222.127					
225.610	224.598	6H	225.670	226.270	227.402	227.777
225.610	224.698					
226.704	225.905	6H	226.752	227.252	228.051	228.386
226.704	225.995					
227.797	227.219	6H	227.835	228.210	228.701	228.981
227.797	227.299					
228.425	226.972	6H	228.505	229.305	231.103	231.578
228.425	227.103					
230.610	229.598	6H	230.670	231.270	232.402	232.777
230.610	229.698					
231.704	230.905	6H	231.752	232.252	233.051	233.386
231.704	230.995					
231.240	229.421	6H	231.340	232.340	234.804	235.279
231.240	229.552					
233.425	232.012	6H	233.505	234.305	236.103	236.528
233.425	232.127					
235.610	234.598	6H	235.670	236.270	237.402	237.777
235.610	234.698					
236.704	235.905	6H	236.752	237.252	238.051	238.386
236.704	235.995					
237.797	237.219	6H	237.835	238.210	238.701	238.981
237.797	237.299					
238.425	237.012	6H	238.505	239.305	241.103	241.528
238.425	237.127					
240.610	239.598	6H	240.670	241.270	242.402	242.777
240.610	239.698					
241.704	240.905	6H	241.752	242.252	243.051	243.386
241.704	240.995					
242.797	242.219	6H	242.835	243.210	243.701	243.981
242.797	242.299					
241.240	239.421	6H	241.340	242.340	244.804	245.279
241.240	239.552					
243.425	242.012	6H	243.505	244.305	246.103	246.528
243.425	242.127					

245.610	244.598	6H	245.670	246.270	247.402	247.777
245.610	244.698					
246.704	245.905	6H	246.752	247.252	248.051	248.386
246.704	245.995					
247.797	247.219	6H	247.835	248.210	248.701	248.981
247.797	247.299					
248.425	246.972	6H	248.505	249.305	251.103	251.578
248.425	247.103					
250.610	249.598	6H	250.670	251.270	252.402	252.777
250.610	249.698					
251.704	250.905	6H	251.752	252.252	253.051	253.386
251.704	250.995					
251.240	249.421	6H	251.340	252.340	254.804	255.279
251.240	249.552					
253.425	252.012	6H	253.505	254.305	256.103	256.528
253.425	252.127					
255.610	254.598	6H	255.670	256.270	257.402	257.777
255.610	254.698					
256.704	255.905	6H	256.752	257.252	258.051	258.386
256.704	255.995					
258.425	257.012	6H	258.505	259.305	261.103	261.528
258.425	257.127					
260.610	259.598	6H	260.670	261.270	262.402	262.777
260.610	259.698					
261.704	260.905	6H	261.752	262.252	263.051	263.386
261.704	260.995					
263.425	262.012	6H	263.505	264.305	266.103	266.528
263.425	262.127					
265.610	264.598	6H	265.670	266.270	267.402	267.777
265.610	264.698					
266.704	265.905	6H	266.752	267.252	268.051	268.386
266.704	265.995					
268.425	267.012	6H	268.505	269.305	271.103	271.528
268.425	267.127					
270.610	269.598	6H	270.670	271.270	272.402	272.777
270.610	269.698					
271.704	270.905	6H	271.752	272.252	273.051	273.386
271.704	270.995					
271.240	269.421	6H	271.340	272.340	274.804	275.279
271.240	269.552					
273.425	272.012	6H	273.505	274.305	276.103	276.528
273.425	272.127					
275.610	274.598	6H	275.670	276.270	277.402	277.777
275.610	274.698					
276.704	275.905	6H	276.752	277.252	278.051	278.386
276.704	275.995					
278.425	277.012	6H	278.505	279.305	281.103	281.528
278.425	277.127					
280.610	279.598	6H	280.670	281.270	282.402	282.777
280.610	279.698					
281.704	280.905	6H	281.752	282.252	283.051	283.386
281.704	280.995					
283.425	282.012	6H	283.505	284.305	286.103	286.528
283.425	282.127					
285.610	284.598	6H	285.670	286.270	287.402	287.777
285.610	284.698					

286.704	285.905	6H	286.752	287.252	288.051	288.386
286.704	285.995					
288.425	287.012	6H	288.505	289.305	291.103	291.528
288.425	287.127					
290.610	289.598	6H	290.670	291.270	292.402	292.777
290.610	289.698					
291.704	290.905	6H	291.752	292.252	293.051	293.386
291.704	290.995					
291.240	289.421	6H	291.340	292.340	294.804	295.279
291.240	289.552					
293.425	292.012	6H	293.505	294.305	296.103	296.528
293.425	292.127					
295.610	294.598	6H	295.670	296.270	297.402	297.777
295.610	294.698					
296.704	295.905	6H	296.752	297.252	298.051	298.386
296.704	295.995					
303.425	302.012	6H	303.505	304.305	306.103	306.528
303.425	302.127					
305.610	304.598	6H	305.670	306.270	307.402	307.777
305.610	304.698					
313.425	312.012	6H	313.505	314.305	316.103	316.528
313.425	312.127					
315.610	314.598	6H	315.670	316.270	317.402	317.777
315.610	314.698					
323.425	322.012	6H	323.505	324.305	326.103	326.528
323.425	322.127					
325.610	324.598	6H	325.670	326.270	327.402	327.777
325.610	324.698					
333.425	332.012	6H	333.505	334.305	336.103	336.528
333.425	332.127					
335.610	334.598	6H	335.670	336.270	337.402	337.777
335.610	334.698					
343.425	342.012	6H	343.505	344.305	346.103	346.528
343.425	342.127					
345.610	344.598	6H	345.670	346.270	347.402	347.777
345.610	344.698					
353.425	351.972	6H	353.505	354.305	356.103	356.578
353.425	352.103					
355.610	354.578	6H	355.670	356.270	357.402	357.802
355.610	354.688					
363.425	361.972	6H	363.505	364.305	366.103	366.578
363.425	362.103					
365.610	364.578	6H	365.670	366.270	367.402	367.802
365.610	364.688					
373.425	371.972	6H	373.505	374.305	376.103	376.578
373.425	372.103					
375.610	374.578	6H	375.670	376.270	377.402	377.802
375.610	374.688					
383.425	381.972	6H	383.505	384.305	386.103	386.578
383.425	382.103					
385.610	384.578	6H	385.670	386.270	387.402	387.802
385.610	384.688					
393.425	391.972	6H	393.505	394.305	396.103	396.578
393.425	392.103					
395.610	394.578	6H	395.670	396.270	397.402	397.802
395.610	394.688					

403.425	401.972	6H	403.505	404.305	406.103	406.578
403.425	402.103					
413.425	411.972	6H	413.505	414.305	416.103	416.578
413.425	412.103					
423.425	421.972	6H	423.505	424.305	426.103	426.578
423.425	422.103					
433.425	431.972	6H	433.505	434.305	436.103	436.578
433.425	432.103					
443.425	441.972	6H	443.505	444.305	446.103	446.578
443.425	442.103					
453.425	451.972	6H	453.505	454.305	456.103	456.578
453.425	452.103					
463.425	461.972	6H	463.505	464.305	466.103	466.578
463.425	462.103					
473.425	471.972	6H	473.505	474.305	476.103	476.578
473.425	472.103					
483.425	481.972	6H	483.505	484.305	486.103	486.578
483.425	482.103					
493.425	491.972	6H	493.505	494.305	496.103	496.578
493.425	492.103					
503.425	501.972	6H	503.505	504.305	506.103	506.578
503.425	502.103					
513.425	511.972	6H	513.505	514.305	516.103	516.578
513.425	512.103					
523.425	521.972	6H	523.505	524.305	526.103	526.578
523.425	522.103					
533.425	531.972	6H	533.505	534.305	536.103	536.578
533.425	532.103					
543.425	541.972	6H	543.505	544.305	546.103	546.578
543.425	542.103					
553.425	551.972	6H	553.505	554.305	556.103	556.578
553.425	552.103					
563.425	561.972	6H	563.505	564.305	566.103	566.578
563.425	562.103					
573.425	571.972	6H	573.505	574.305	576.103	576.578
573.425	572.103					
583.425	581.972	6H	583.505	584.305	586.103	586.578
583.425	582.103					
593.425	591.972	6H	593.505	594.305	596.103	596.578
593.425	592.103					
1051.240	1049.351	6H	1051.340	1052.340	1054.804	1055.364
1051.240	1049.511					

Major Dia		Tap Drill
<i>Min</i>	<i>Max</i>	<i>Basic</i>
0.255	0.276	0.175
0.306	0.327	0.210
0.306	0.330	
0.356	0.380	0.245
0.407	0.432	0.280
0.457	0.482	0.315
0.509	0.538	0.350
0.559	0.588	0.380
0.611	0.644	0.420
0.713	0.750	0.500
0.814	0.856	0.560
0.916	0.962	0.630
1.000	1.107	0.700
1.000	1.092	0.700
1.100	1.207	0.800
1.100	1.192	0.800
1.200	1.307	0.900
1.200	1.292	0.900
1.400	1.509	1.200
1.400	1.492	1.200
1.600	1.736	1.250
1.6	1.6958676	1.25
1.700	1.836	1.300
1.800	1.936	1.500
1.800	1.896	1.500
2.000	2.148	1.600
2.000	2.111	1.600

2.200	2.360	1.700
2.200	2.311	1.700
2.300	2.460	1.700
2.300	2.448	1.700
2.500	2.660	2.050
2.500	2.636	2.050
2.600	2.750	2.050
3.000	3.172	2.500
3.000	3.141	2.500
3.500	3.699	2.900
3.500	3.641	2.900
4.000	4.219	3.300
4.000	4.172	3.300
4.500	4.726	3.500
4.500	4.672	3.500
5.000	5.240	4.200
5.000	5.172	4.200
5.500	5.692	4.800
6.000	6.294	5.000
6.000	6.240	5.000
6.000	6.226	5.000
6.000	6.184	5.000
7.000	7.294	6.300
7.000	7.240	6.300
7.000	7.184	6.300
8.000	8.340	6.800
8.000	8.294	6.800
8.000	8.255	6.800

8.000	8.240	6.800
8.000	8.184	6.800
9.000	9.340	7.100
9.000	9.292	7.100
9.000	9.240	7.100
9.000	9.184	7.100
10.000	10.396	8.500
10.000	10.340	8.500
10.000	10.322	8.500
10.000	10.294	8.500
10.000	10.240	8.500
10.000	10.184	8.500
11.000	11.387	9.000
11.000	11.294	9.000
11.000	11.240	9.000
11.000	11.184	9.000
12.000	12.453	10.200
12.000	12.406	10.200
12.000	12.360	10.200
12.000	12.304	10.200
12.000	12.248	10.200
12.000	12.192	10.200
14.000	14.501	12.000
14.000	14.406	12.000
14.000	14.350	12.000
14.000	14.304	12.000
14.000	14.248	12.000
14.000	14.192	12.000

15.000	15.407	13.000
15.000	15.304	13.000
16.000	16.501	12.000
16.000	16.406	12.000
16.000	16.350	12.000
16.000	16.304	13.000
16.000	16.248	14.000
16.000	16.192	14.000
17.000	17.407	15.000
17.000	17.304	15.000
18.000	18.585	14.000
18.000	18.501	15.000
18.000	18.406	15.500
18.000	18.350	16.000
18.000	18.304	16.000
18.000	18.248	16.000
18.000	18.192	17.000
20.000	20.585	17.500
20.000	20.501	17.500
20.000	20.406	17.500
20.000	20.304	17.500
20.000	20.248	18.000
20.000	20.192	19.000
22.000	22.677	19.500
22.000	22.585	19.500
22.000	22.501	19.500
22.000	22.406	19.500
22.000	22.304	20.000

22.000	22.248	20.000
22.000	22.192	20.000
24.000	24.698	21.000
24.000	24.611	21.000
24.000	24.513	21.000
24.000	24.417	21.000
24.000	24.314	21.000
24.000	24.258	21.000
25.000	25.513	22.000
25.000	25.416	22.000
25.000	25.314	22.000
26.000	26.417	24.000
27.000	27.698	24.000
27.000	27.513	24.000
27.000	27.417	24.000
27.000	27.314	24.000
27.000	27.258	24.000
28.000	28.513	25.000
28.000	28.417	25.000
28.000	28.314	25.000
30.000	30.785	26.500
30.000	30.698	26.500
30.000	30.611	26.500
30.000	30.513	26.500
30.000	30.416	26.500
30.000	30.314	26.500
30.000	30.258	26.500
32.000	32.513	28.000

32.000	32.417	28.000
33.000	33.785	29.500
33.000	33.698	29.500
33.000	33.513	29.500
33.000	33.417	29.500
33.000	33.314	29.500
33.000	33.258	29.500
35.000	35.416	31.000
36.000	36.877	31.000
36.000	36.698	31.000
36.000	36.513	31.000
36.000	36.417	31.000
36.000	36.314	31.000
38.000	38.417	35.000
39.000	39.877	34.000
39.000	39.698	34.000
39.000	39.513	35.000
39.000	39.417	36.000
39.000	39.314	36.000
40.000	40.698	36.000
40.000	40.611	36.000
40.000	40.513	36.000
40.000	40.416	36.000
42.000	42.965	37.500
42.000	42.877	36.000
42.000	42.698	37.500
42.000	42.513	37.500
42.000	42.417	39.000

42.000	42.314	39.000
45.000	45.965	39.000
45.000	45.877	39.000
45.000	45.698	40.500
45.000	45.513	40.500
45.000	45.416	40.500
45.000	45.314	43.000
48.000	49.057	43.000
48.000	48.892	43.000
48.000	48.713	43.000
48.000	48.525	43.000
48.000	48.429	45.000
50.000	50.892	45.000
50.000	50.713	45.000
50.000	50.525	45.000
50.000	50.428	45.000
52.000	53.037	45.000
52.000	52.892	45.000
52.000	52.713	45.000
52.000	52.525	48.000
52.000	52.429	48.000
55.000	55.892	48.000
55.000	55.713	48.000
55.000	55.525	50.000
55.000	55.428	50.000
56.000	57.338	48.000
56.000	57.149	50.500
56.000	56.892	50.000

56.000	56.713	50.000
56.000	56.525	50.500
56.000	56.429	52.000
56.000	56.334	52.000
58.000	58.892	50.500
58.000	58.713	52.000
58.000	58.525	52.000
58.000	58.429	54.500
60.000	61.149	54.500
60.000	60.892	52.000
60.000	60.713	54.500
60.000	60.525	54.500
60.000	60.428	54.500
60.000	60.334	58.000
62.000	62.892	56.000
62.000	62.713	56.000
62.000	62.525	58.000
62.000	62.429	58.000
63.000	63.429	58.000
64.000	65.241	58.000
64.000	65.149	54.500
64.000	64.892	58.000
64.000	64.713	58.000
64.000	64.525	58.000
64.000	64.429	60.000
64.000	64.334	60.000
65.000	65.892	58.000
65.000	65.713	60.000

65.000	65.525	60.000
65.000	65.428	59.000
68.000	69.241	60.000
68.000	68.892	60.000
68.000	68.713	60.000
68.000	68.525	60.000
68.000	68.429	64.000
68.000	68.334	64.000
70.000	71.241	60.000
70.000	70.892	60.000
70.000	70.713	64.000
70.000	70.525	64.000
70.000	70.428	64.000
72.000	73.241	65.000
72.000	72.892	64.000
72.000	72.713	65.000
72.000	72.525	65.000
72.000	72.429	68.000
72.000	72.334	68.000
75.000	76.241	65.000
75.000	75.892	65.000
75.000	75.713	68.000
75.000	75.525	68.000
75.000	75.428	68.000
76.000	77.241	65.000
76.000	76.892	68.000
76.000	76.713	68.000
76.000	76.525	70.000

76.000	76.429	70.000
76.000	76.334	72.000
78.000	78.525	72.000
80.000	81.241	72.000
80.000	80.892	72.000
80.000	80.713	75.000
80.000	80.525	72.000
80.000	80.428	72.000
80.000	80.334	75.000
82.000	82.525	75.000
85.000	86.241	75.000
85.000	85.892	77.000
85.000	85.713	77.000
85.000	85.525	77.000
85.000	85.429	77.000
90.000	91.241	81.000
90.000	90.892	81.000
90.000	90.713	81.000
90.000	90.525	81.000
90.000	90.429	85.000
95.000	96.266	85.000
95.000	95.912	85.000
95.000	95.733	86.000
95.000	95.539	86.000
95.000	95.453	86.000
100.000	101.266	90.000
100.000	100.912	90.000
100.000	100.733	90.000

100.000	100.539	90.000
100.000	100.453	95.000
105.000	106.266	95.000
105.000	105.912	95.000
105.000	105.733	99.000
105.000	105.539	95.000
105.000	105.453	99.000
110.000	111.266	99.000
110.000	110.912	99.000
110.000	110.733	99.000
110.000	110.539	99.000
110.000	110.453	99.000
115.000	116.266	99.000
115.000	115.912	108.000
115.000	115.733	108.000
115.000	115.539	108.000
115.000	115.453	108.000
120.000	121.266	108.000
120.000	120.912	108.000
120.000	120.733	108.000
120.000	120.539	108.000
120.000	120.453	110.000
125.000	126.605	110.000
125.000	126.266	110.000
125.000	125.912	110.000
125.000	125.733	110.000
125.000	125.539	117.000
125.000	125.453	117.000

130.000	131.605	117.000
130.000	131.266	117.000
130.000	130.912	117.000
130.000	130.733	117.000
130.000	130.539	117.000
130.000	130.453	117.000
135.000	136.266	117.000
135.000	135.912	117.000
135.000	135.733	126.000
135.000	135.539	126.000
135.000	135.453	126.000
140.000	141.605	126.000
140.000	141.266	126.000
140.000	140.912	126.000
140.000	140.733	126.000
140.000	140.539	126.000
140.000	140.453	126.000
145.000	146.266	130.000
145.000	145.912	130.000
145.000	145.733	130.000
145.000	145.539	130.000
145.000	145.453	130.000
150.000	151.605	135.000
150.000	151.266	135.000
150.000	150.912	135.000
150.000	150.733	135.000
150.000	150.539	135.000
150.000	150.453	135.000

155.000	156.266	140.000
155.000	155.912	140.000
155.000	155.733	140.000
155.000	155.539	140.000
160.000	161.605	144.000
160.000	161.266	144.000
160.000	160.912	144.000
160.000	160.733	144.000
160.000	160.539	144.000
165.000	166.266	148.000
165.000	165.912	148.000
165.000	165.733	148.000
165.000	165.539	148.000
170.000	171.605	153.000
170.000	171.266	153.000
170.000	170.912	153.000
170.000	170.733	153.000
170.000	170.539	153.000
175.000	176.266	158.000
175.000	175.912	158.000
175.000	175.733	158.000
175.000	175.539	158.000
180.000	181.605	162.000
180.000	181.266	162.000
180.000	180.912	162.000
180.000	180.733	162.000
180.000	180.539	162.000
185.000	186.291	165.000

185.000	185.952	165.000
185.000	185.768	165.000
185.000	185.569	165.000
190.000	191.630	171.000
190.000	191.291	171.000
190.000	190.952	171.000
190.000	190.768	171.000
190.000	190.569	171.000
195.000	196.291	175.000
195.000	195.952	175.000
195.000	195.768	175.000
195.000	195.569	175.000
200.000	201.630	180.000
200.000	201.291	180.000
200.000	200.952	180.000
200.000	200.768	180.000
200.000	200.569	180.000
205.000	206.291	185.000
205.000	205.952	185.000
205.000	205.768	185.000
205.000	205.569	185.000
210.000	211.630	190.000
210.000	211.291	190.000
210.000	210.952	190.000
210.000	210.768	190.000
210.000	210.569	190.000
215.000	216.291	193.500
215.000	215.952	193.500

215.000	215.768	193.500
220.000	221.630	198.000
220.000	221.291	198.000
220.000	220.952	198.000
220.000	220.768	198.000
220.000	220.569	198.000
225.000	226.291	202.000
225.000	225.952	202.000
225.000	225.768	202.000
225.000	225.569	202.000
230.000	231.291	210.000
230.000	230.952	210.000
230.000	230.768	210.000
230.000	230.569	210.000
235.000	236.341	210.000
235.000	235.952	210.000
235.000	235.768	210.000
240.000	241.630	216.000
240.000	241.291	216.000
240.000	240.952	216.000
240.000	240.768	216.000
240.000	240.569	216.000
245.000	246.291	220.000
245.000	245.952	220.000
245.000	245.768	220.000
245.000	245.569	220.000
250.000	251.630	225.000
250.000	251.291	225.000

250.000	250.952	225.000
250.000	250.768	225.000
250.000	250.569	225.000
255.000	256.341	230.000
255.000	255.952	230.000
255.000	255.768	230.000
260.000	261.630	234.000
260.000	261.291	234.000
260.000	260.952	234.000
260.000	260.768	234.000
265.000	266.291	238.000
265.000	265.952	238.000
265.000	265.768	238.000
270.000	271.291	243.000
270.000	270.952	243.000
270.000	270.768	243.000
275.000	276.291	248.000
275.000	275.952	248.000
275.000	275.768	248.000
280.000	281.630	252.000
280.000	281.291	252.000
280.000	280.952	252.000
280.000	280.768	252.000
285.000	286.291	256.000
285.000	285.952	256.000
285.000	285.768	256.000
290.000	291.291	261.000
290.000	290.952	261.000

290.000	290.768	261.000
295.000	296.291	265.000
295.000	295.952	265.000
295.000	295.768	265.000
300.000	301.630	270.000
300.000	301.291	270.000
300.000	300.952	270.000
300.000	300.768	270.000
310.000	311.291	280.000
310.000	310.952	280.000
320.000	321.291	288.000
320.000	320.952	288.000
330.000	331.291	297.000
330.000	330.952	297.000
340.000	341.291	306.000
340.000	340.952	306.000
350.000	351.291	315.000
350.000	350.952	315.000
360.000	361.341	324.000
360.000	360.977	324.000
370.000	371.341	333.000
370.000	370.977	333.000
380.000	381.341	342.000
380.000	380.977	342.000
390.000	391.341	351.000
390.000	390.977	351.000
400.000	401.341	360.000
400.000	400.977	360.000

410.000	411.341	369.000
420.000	421.341	378.000
430.000	431.341	387.000
440.000	441.341	396.000
450.000	451.341	405.000
460.000	461.341	414.000
470.000	471.341	423.000
480.000	481.341	432.000
490.000	491.341	441.000
500.000	501.341	450.000
510.000	511.341	459.000
520.000	521.341	468.000
530.000	531.341	477.000
540.000	541.341	486.000
550.000	551.341	495.000
560.000	561.341	504.000
570.000	571.341	513.000
580.000	581.341	522.000
590.000	591.341	531.000
600.000	601.341	540.000
1060.000	1061.715	954.000

mm

		External外螺紋					
Size	Thread Designation	Class	Major Dia大徑		Pitch Dia中徑		Mino Max
			Max	Min	Max	Min	
0.25	M0.25x0.075	6g	0.250	0.235	0.201	0.187	0.160
	M0.25x0.075	4g6g	0.250	0.235	0.201	0.193	0.160
0.3	M0.3x0.08	6g	0.300	0.284	0.248	0.234	0.204
	M0.3x0.08	4g6g	0.300	0.284	0.248	0.239	0.204
	M0.3x0.09	6g	0.300	0.283	0.242	0.226	0.192
	M0.3x0.09	4g6g	0.300	0.283	0.242	0.233	0.192
0.35	M0.35x0.09	6g	0.350	0.333	0.292	0.277	0.242
	M0.35x0.09	4g6g	0.350	0.333	0.292	0.283	0.242
0.4	M0.4x0.1	6g	0.400	0.382	0.335	0.319	0.280
	M0.4x0.1	4g6g	0.400	0.382	0.335	0.325	0.280
0.45	M0.45x0.1	6g	0.450	0.432	0.385	0.369	0.330
	M0.45x0.1	4g6g	0.450	0.432	0.385	0.375	0.330
0.5	M0.5x0.125	6g	0.500	0.479	0.419	0.401	0.350
	M0.5x0.125	4g6g	0.500	0.479	0.419	0.408	0.350
0.55	M0.55x0.125	6g	0.550	0.529	0.469	0.451	0.400
	M0.55x0.125	4g6g	0.550	0.529	0.469	0.458	0.400
0.6	M0.6x0.15	6g	0.600	0.576	0.503	0.483	0.420
	M0.6x0.15	4g6g	0.600	0.576	0.503	0.490	0.420
0.7	M0.7x0.175	6g	0.700	0.673	0.586	0.564	0.490
	M0.7x0.175	4g6g	0.700	0.673	0.586	0.572	0.490
0.8	M0.8x0.2	6g	0.800	0.770	0.670	0.646	0.560
	M0.8x0.2	4g6g	0.800	0.770	0.670	0.655	0.560
0.9	M0.9x0.225	6g	0.900	0.867	0.754	0.728	0.630
	M0.9x0.225	4g6g	0.900	0.867	0.754	0.738	0.630
1	M1x0.25	6g	0.982	0.915	0.820	0.767	0.711
	M1x0.25	4g6g	0.982	0.915	0.820	0.787	0.711
	M1x0.2	6g	0.983	0.927	0.853	0.805	0.766
	M1x0.2	4g6g	0.983	0.927	0.853	0.823	0.766
1.1	M1.1x0.25	6g	1.082	1.015	0.920	0.867	0.811
	M1.1x0.25	4g6g	1.082	1.015	0.920	0.888	0.811
	M1.1x0.2	6g	1.083	1.027	0.953	0.905	0.866
	M1.1x0.2	4g6g	1.083	1.027	0.953	0.923	0.866
1.2	M1.2x0.25	6g	1.182	1.115	1.020	0.967	0.911
	M1.2x0.25	4g6g	1.182	1.115	1.020	0.987	0.911
	M1.2x0.2	6g	1.183	1.127	1.053	1.005	0.966
	M1.2x0.2	4g6g	1.183	1.127	1.053	1.023	0.966
1.4	M1.4x0.3	6g	1.383	1.308	1.253	1.193	1.166
	M1.4x0.3	4g6g	1.383	1.308	1.253	1.215	1.166
	M1.4x0.2	6g	1.383	1.327	1.253	1.205	1.166
	M1.4x0.2	4g6g	1.383	1.327	1.253	1.223	1.166
1.6	M1.6x0.35	6g	1.581	1.496	1.354	1.291	1.202
	M1.6x0.35	4g6g	1.581	1.496	1.354	1.314	1.202
	M1.6x0.3	6g	1.582	1.507	1.387	1.342	1.257
	M1.6x0.3	4g6g	1.582	1.507	1.387	1.359	1.257
	M1.6x0.2	6g	1.583	1.527	1.453	1.403	1.366
	M1.6x0.2	4g6g	1.583	1.527	1.453	1.421	1.366
1.7	M1.7x0.35	6g	1.681	1.596	1.454	1.391	1.302
	M1.7x0.35	4g6g	1.681	1.596	1.454	1.414	1.302
1.8	M1.8x0.35	6g	1.781	1.696	1.554	1.491	1.402
	M1.8x0.35	4g6g	1.781	1.696	1.554	1.514	1.402
	M1.8x0.2	6g	1.783	1.727	1.653	1.603	1.566
	M1.8x0.2	4g6g	1.783	1.727	1.653	1.621	1.566

2	M2x0.4	6g	1.981	1.886	1.721	1.654	1.548
	M2x0.4	4g6g	1.981	1.886	1.721	1.679	1.548
	M2x0.25	6g	1.982	1.915	1.820	1.764	1.711
	M2x0.25	4g6g	1.982	1.915	1.820	1.784	1.711
2.2	M2.2x0.45	6g	2.180	2.080	1.888	1.817	1.693
	M2.2x0.45	4g6g	2.180	2.080	1.888	1.843	1.693
	M2.2x0.25	6g	2.182	2.115	2.020	1.964	1.911
	M2.2x0.25	4g6g	2.182	2.115	2.020	1.984	1.911
2.3	M2.3x0.45	6g	2.280	2.180	1.988	1.917	1.793
	M2.3x0.45	4g6g	2.280	2.180	1.988	1.943	1.793
	M2.3x0.4	6g	2.281	2.186	2.021	1.954	1.848
	M2.3x0.4	4g6g	2.281	2.186	2.021	1.979	1.848
2.5	M2.5x0.45	6g	2.480	2.380	2.188	2.117	1.993
	M2.5x0.45	4g6g	2.480	2.380	2.188	2.143	1.993
	M2.5x0.35	6g	2.481	2.396	2.254	2.191	2.102
	M2.5x0.35	4g6g	2.481	2.396	2.254	2.214	2.102
2.6	M2.6x0.45	6g	2.580	2.480	2.288	2.217	2.093
	M2.6x0.45	4g6g	2.580	2.480	2.288	2.243	2.093
3	M3x0.5	6g	2.980	2.874	2.655	2.580	2.439
	M3x0.5	4g6g	2.980	2.874	2.655	2.607	2.439
	M3x0.35	6g	2.981	2.896	2.754	2.687	2.602
	M3x0.35	4g6g	2.981	2.896	2.754	2.712	2.602
3.5	M3.5x0.6	6g	3.479	3.354	3.089	3.004	2.829
	M3.5x0.6	4g6g	3.479	3.354	3.089	3.036	2.829
	M3.5x0.35	6g	3.481	3.396	3.254	3.187	3.102
	M3.5x0.35	4g6g	3.481	3.396	3.254	3.212	3.102
4	M4x0.7	6g	3.978	3.838	3.523	3.433	3.220
	M4x0.7	4g6g	3.978	3.838	3.523	3.467	3.220
	M4x0.5	6g	3.980	3.874	3.655	3.580	3.439
	M4x0.5	4g6g	3.980	3.874	3.655	3.607	3.439
4.5	M4.5x0.75	6g	4.478	4.338	3.991	3.901	3.666
	M4.5x0.75	4g6g	4.478	4.338	3.991	3.935	3.666
	M4.5x0.5	6g	4.480	4.374	4.155	4.080	3.939
	M4.5x0.5	4g6g	4.480	4.374	4.155	4.107	3.939
5	M5x0.8	6g	4.976	4.826	4.456	4.361	4.110
	M5x0.8	4g6g	4.976	4.826	4.456	4.396	4.110
	M5x0.5	6g	4.980	4.874	4.655	4.580	4.439
	M5x0.5	4g6g	4.980	4.874	4.655	4.607	4.439
5.5	M5.5x0.5	6g	5.480	5.374	5.155	5.065	4.939
	M5.5x0.5	4g6g	5.480	5.374	5.155	5.099	4.939
6	M6x1	6g	5.974	5.794	5.324	5.212	4.891
	M6x1	4g6g	5.974	5.794	5.324	5.253	4.891
	M6x0.8	6g	5.976	5.826	5.456	5.376	5.110
	M6x0.8	4g6g	5.976	5.826	5.456	5.406	5.110
	M6x0.75	6g	5.978	5.838	5.491	5.391	5.166
	M6x0.75	4g6g	5.978	5.838	5.491	5.428	5.166
	M6x0.7	6g	5.978	5.838	5.523	5.428	5.220
	M6x0.7	4g6g	5.978	5.838	5.523	5.463	5.220
	M6x0.5	6g	5.980	5.874	5.655	5.570	5.439
	M6x0.5	4g6g	5.980	5.874	5.655	5.602	5.439
7	M7x1	6g	6.974	6.794	6.324	6.212	5.891
	M7x1	4g6g	6.974	6.794	6.324	6.253	5.891
	M7x0.75	6g	6.978	6.838	6.491	6.391	6.166
	M7x0.75	4g6g	6.978	6.838	6.491	6.428	6.166
	M7x0.5	6g	6.980	6.874	6.655	6.570	6.439
	M7x0.5	4g6g	6.980	6.874	6.655	6.602	6.439

8	M8x1.25	6g	7.972	7.760	7.160	7.042	6.619
	M8x1.25	4g6g	7.972	7.760	7.160	7.085	6.619
	M8x1	6g	7.974	7.794	7.324	7.212	6.891
	M8x1	4g6g	7.974	7.794	7.324	7.253	6.891
	M8x0.8	6g	7.976	7.826	7.456	7.350	7.110
	M8x0.8	4g6g	7.976	7.826	7.456	7.389	7.110
	M8x0.75	6g	7.978	7.838	7.491	7.391	7.166
	M8x0.75	4g6g	7.978	7.838	7.491	7.428	7.166
	M8x0.5	6g	7.980	7.874	7.655	7.570	7.439
	M8x0.5	4g6g	7.980	7.874	7.655	7.602	7.439
9	M9x1.25	6g	8.972	8.760	8.160	8.042	7.619
	M9x1.25	4g6g	8.972	8.760	8.160	8.085	7.619
	M9x1	6g	8.974	8.794	8.324	8.212	7.891
	M9x1	4g6g	8.974	8.794	8.324	8.253	7.891
	M9x0.75	6g	8.978	8.838	8.491	8.391	8.166
	M9x0.75	4g6g	8.978	8.838	8.491	8.428	8.166
	M9x0.5	6g	8.980	8.874	8.655	8.570	8.439
	M9x0.5	4g6g	8.980	8.874	8.655	8.602	8.439
10	M10x1.5	6g	9.968	9.732	8.994	8.862	8.344
	M10x1.5	4g6g	9.968	9.732	8.994	8.909	8.344
	M10x1.25	6g	9.972	9.760	9.160	9.042	8.619
	M10x1.25	4g6g	9.972	9.760	9.160	9.085	8.619
	M10x1.12	6g	9.973	9.783	9.246	9.128	8.761
	M10x1.12	4g6g	9.973	9.783	9.246	9.171	8.761
	M10x1	6g	9.974	9.794	9.324	9.212	8.891
	M10x1	4g6g	9.974	9.794	9.324	9.253	8.891
	M10x0.75	6g	9.978	9.838	9.491	9.391	9.166
	M10x0.75	4g6g	9.978	9.838	9.491	9.428	9.166
	M10x0.5	6g	9.980	9.874	9.655	9.570	9.439
	M10x0.5	4g6g	9.980	9.874	9.655	9.602	9.439
11	M11x1.5	6g	10.968	10.732	9.994	9.862	9.344
	M11x1.5	4g6g	10.968	10.732	9.994	9.911	9.344
	M11x1	6g	10.974	10.794	10.324	10.212	9.891
	M11x1	4g6g	10.974	10.794	10.324	10.253	9.891
	M11x0.75	6g	10.978	10.838	10.491	10.391	10.166
	M11x0.75	4g6g	10.978	10.838	10.491	10.428	10.166
	M11x0.5	6g	10.980	10.874	10.655	10.570	10.439
	M11x0.5	4g6g	10.980	10.874	10.655	10.602	10.439
12	M12x1.75	6g	11.966	11.701	10.829	10.679	10.072
	M12x1.75	4g6g	11.966	11.701	10.829	10.734	10.072
	M12x1.5	6g	11.968	11.732	10.994	10.854	10.344
	M12x1.25	6g	11.972	11.760	11.160	11.028	10.619
	M12x1.25	4g6g	11.972	11.760	11.160	11.075	10.619
	M12x1	6g	11.974	11.794	11.324	11.206	10.891
	M12x1	4g6g	11.974	11.794	11.324	11.249	10.891
	M12x0.75	6g	11.978	11.838	11.491	11.385	11.166
	M12x0.75	4g6g	11.978	11.838	11.491	11.424	11.166
	M12x0.5	6g	11.980	11.874	11.655	11.565	11.439
	M12x0.5	4g6g	11.980	11.874	11.655	11.598	11.439
14	M14x2	6g	13.962	13.682	12.663	12.503	11.797
	M14x2	4g6g	13.962	13.682	12.663	12.563	11.797
	M14x1.5	6g	13.968	13.732	12.994	12.854	12.344
	M14x1.5	4g6g	13.968	13.732	12.994	12.904	12.344
	M14x1.25	6g	13.972	13.760	13.160	13.028	12.619
	M14x1.25	4g6g	13.972	13.760	13.160	13.075	12.619
	M14x1	6g	13.974	13.794	13.324	13.206	12.891

	M14x1	4g6g	13.974	13.794	13.324	13.250	12.891
	M14x0.75	6g	13.978	13.838	13.491	13.385	13.166
	M14x0.75	4g6g	13.978	13.838	13.491	13.424	13.166
	M14x0.5	6g	13.980	13.874	13.655	13.565	13.439
	M14x0.5	4g6g	13.980	13.874	13.655	13.598	13.439
15	M15x1.5	6g	14.968	14.732	13.994	13.854	13.344
	M15x1.5	4g6g	14.968	14.732	13.994	13.904	13.344
	M15x1	6g	14.974	14.794	14.324	14.206	13.891
	M15x1	4g6g	14.974	14.794	14.324	14.249	13.891
16	M16x2	6g	15.962	15.682	14.663	14.503	13.797
	M16x2	4g6g	15.962	15.682	14.663	14.563	13.797
	M16x1.6	6g	15.968	15.756	14.929	14.824	14.236
	M16x1.6	4g6g	15.968	15.756	14.929	14.863	14.236
	M16x1.5	6g	15.968	15.732	14.994	14.854	14.344
	M16x1.5	4g6g	15.968	15.732	14.994	14.904	14.344
	M16x1.25	6g	15.972	15.760	15.160	15.028	14.619
	M16x1.25	4g6g	15.972	15.760	15.160	15.075	14.619
	M16x1	6g	15.974	15.794	15.324	15.206	14.891
	M16x1	4g6g	15.974	15.794	15.324	15.249	14.891
	M16x0.75	6g	15.978	15.838	15.491	15.385	15.166
	M16x0.75	4g6g	15.978	15.838	15.491	15.424	15.166
	M16x0.5	6g	15.980	15.874	15.655	15.565	15.439
	M16x0.5	4g6g	15.980	15.874	15.655	15.599	15.439
17	M17x1.5	6g	16.968	16.732	15.994	15.854	15.344
	M17x1.5	4g6g	16.968	16.732	15.994	15.904	15.344
	M17x1	6g	16.974	16.794	16.324	16.206	15.891
	M17x1	4g6g	16.974	16.794	16.324	16.249	15.891
18	M18x2.5	6g	17.958	17.623	16.334	16.164	15.252
	M18x2.5	4g6g	17.958	17.623	16.334	16.228	15.252
	M18x2	6g	17.962	17.682	16.663	16.503	15.797
	M18x2	4g6g	17.962	17.682	16.663	16.563	15.797
	M18x1.5	6g	17.968	17.732	16.994	16.854	16.344
	M18x1.5	4g6g	17.968	17.732	16.994	16.904	16.344
	M18x1.25	6g	17.972	17.760	17.160	17.028	16.619
	M18x1.25	4g6g	17.972	17.760	17.160	17.075	16.619
	M18x1	6g	17.974	17.794	17.324	17.206	16.891
	M18x1	4g6g	17.974	17.794	17.324	17.249	16.891
	M18x0.75	6g	17.978	17.838	17.491	17.385	17.166
	M18x0.75	4g6g	17.978	17.838	17.491	17.424	17.166
	M18x0.5	6g	17.980	17.874	17.655	17.565	17.439
	M18x0.5	4g6g	17.980	17.874	17.655	17.599	17.439
20	M20x2.5	6g	19.958	19.623	18.334	18.164	17.252
	M20x2.5	4g6g	19.958	19.623	18.334	18.228	17.252
	M20x2	6g	19.962	19.682	18.663	18.503	17.797
	M20x2	4g6g	19.962	19.682	18.663	18.562	17.797
	M20x1.5	6g	19.968	19.732	18.994	18.854	18.344
	M20x1.5	4g6g	19.968	19.732	18.994	18.904	18.344
	M20x1	6g	19.974	19.794	19.324	19.206	18.891
	M20x1	4g6g	19.974	19.794	19.324	19.249	18.891
	M20x0.75	6g	19.978	19.838	19.491	19.385	19.166
	M20x0.75	4g6g	19.978	19.838	19.491	19.424	19.166
	M20x0.5	6g	19.980	19.874	19.655	19.565	19.439
	M20x0.5	4g6g	19.980	19.874	19.655	19.599	19.439
22	M22x3	6g	21.952	21.577	20.003	19.818	18.704
	M22x3	4g6g	21.952	21.577	20.003	19.885	18.704
	M22x2.5	6g	21.958	21.623	20.334	20.164	19.252

	M22x2.5	4g6g	21.958	21.623	20.334	20.234	19.252
	M22x2	6g	21.962	21.682	20.663	20.503	19.797
	M22x2	4g6g	21.962	21.682	20.663	20.563	19.797
	M22x1.5	6g	21.968	21.732	20.994	20.854	20.344
	M22x1.5	4g6g	21.968	21.732	20.994	20.904	20.344
	M22x1	6g	21.974	21.794	21.324	21.206	20.891
	M22x1	4g6g	21.974	21.794	21.324	21.249	20.891
	M22x0.75	6g	21.978	21.838	21.491	21.385	21.166
	M22x0.75	4g6g	21.978	21.838	21.491	21.424	21.166
	M22x0.5	6g	21.980	21.874	21.655	21.565	21.439
	M22x0.5	4g6g	21.980	21.874	21.655	21.598	21.439
24	M24x3	6g	23.952	23.577	22.003	21.803	20.704
	M24x3	4g6g	23.952	23.557	22.003	21.878	20.704
	M24x2.5	6g	23.958	23.623	22.334	22.144	21.252
	M24x2.5	4g6g	23.958	23.623	22.334	22.214	21.252
	M24x2	6g	23.962	23.682	22.663	22.493	21.797
	M24x2	4g6g	23.962	23.682	22.663	22.557	21.797
	M24x1.5	6g	23.968	23.732	22.994	22.844	22.344
	M24x1.5	4g6g	23.968	23.732	22.994	22.899	22.344
	M24x1	6g	23.974	23.794	23.324	23.199	22.891
	M24x1	4g6g	23.974	23.794	23.324	23.244	22.891
	M24x0.75	6g	23.978	23.838	23.491	23.379	23.166
	M24x0.75	4g6g	23.978	23.838	23.491	23.420	23.166
25	M25x2	6g	24.962	24.682	23.663	23.493	22.797
	M25x2	4g6g	24.962	24.682	23.663	23.557	22.797
	M25x1.5	6g	24.968	24.732	23.994	23.844	23.344
	M25x1.5	4g6g	24.968	24.732	23.994	23.899	23.344
	M25x1	6g	24.974	24.794	24.324	24.199	23.891
	M25x1	4g6g	24.974	24.794	24.324	24.244	23.891
26	M26x1.5	6g	25.968	25.732	24.994	24.844	24.344
	M26x1.5	4g6g	25.968	25.732	24.994	24.899	24.344
27	M27x3	6g	26.952	26.577	25.003	24.803	23.704
	M27x3	4g6g	26.952	26.577	25.003	24.878	23.704
	M27x2	6g	26.962	26.682	25.663	25.493	24.797
	M27x2	4g6g	26.962	26.682	25.663	25.557	24.797
	M27x1.5	6g	26.968	26.732	25.994	25.844	25.344
	M27x1.5	4g6g	26.968	26.732	25.994	25.899	25.344
	M27x1	6g	26.974	26.794	26.324	26.199	25.891
	M27x1	4g6g	26.974	26.794	26.324	26.244	25.891
	M27x0.75	6g	26.978	26.838	26.491	26.379	26.166
	M27x0.75	4g6g	26.978	26.838	26.491	26.420	26.166
28	M28x2	6g	27.962	27.682	26.663	26.493	25.797
	M28x2	4g6g	27.962	27.682	26.663	26.557	25.797
	M28x1.5	6g	27.968	27.732	26.994	26.844	26.344
	M28x1.5	4g6g	27.968	27.732	26.994	26.899	26.344
	M28x1	6g	27.974	27.794	27.324	27.199	26.891
	M28x1	4g6g	27.974	27.794	27.324	27.244	26.891
30	M30x3.5	6g	29.947	29.522	27.674	27.462	26.158
	M30x3.5	4g6g	29.947	29.522	27.674	27.542	26.158
	M30x3	6g	29.952	29.577	28.003	27.803	26.704
	M30x3	4g6g	29.952	29.577	28.003	27.878	26.704
	M30x2.5	6g	29.958	29.623	28.334	28.144	27.252
	M30x2.5	4g6g	29.958	29.623	28.334	28.214	27.252
	M30x2	6g	29.962	29.682	28.663	28.493	27.797
	M30x2	4g6g	29.962	29.682	28.663	28.557	27.797
	M30x1.5	6g	29.968	29.732	28.994	28.844	28.344

	M30x1.5	4g6g	29.968	29.732	28.994	28.899	28.344
	M30x1	6g	29.974	29.794	29.324	29.199	28.891
	M30x1	4g6g	29.974	29.794	29.324	29.244	28.891
	M30x0.75	6g	29.978	29.838	29.491	29.379	29.166
	M30x0.75	4g6g	29.978	29.838	29.491	29.420	29.166
32	M32x2	6g	31.962	31.682	30.663	30.493	29.797
	M32x2	4g6g	31.962	31.682	30.663	30.557	29.797
	M32x1.5	6g	31.968	31.732	30.994	30.844	30.344
	M32x1.5	4g6g	31.968	31.732	30.994	30.899	30.344
33	M33x3.5	6g	32.968	32.543	30.695	30.483	29.179
	M33x3.5	4g6g	32.968	32.543	30.695	30.563	29.179
	M33x3	6g	32.952	32.577	31.003	30.803	29.704
	M33x3	4g6g	32.952	32.577	31.003	30.878	29.704
	M33x2	6g	32.962	32.682	31.663	31.493	30.797
	M33x2	4g6g	32.962	32.682	31.663	31.557	30.797
	M33x1.5	6g	32.968	32.732	31.994	31.844	31.344
	M33x1.5	4g6g	32.968	32.732	31.994	31.899	31.344
	M33x1	6g	32.974	32.794	32.324	32.199	31.891
	M33x1	4g6g	32.974	32.794	32.324	32.244	31.891
	M33x0.75	6g	32.978	32.838	32.491	32.379	32.166
	M33x0.75	4g6g	32.978	32.838	32.491	32.420	32.166
35	M35x1.5	6g	34.968	34.732	33.994	33.844	33.344
	M35x1.5	4g6g	34.968	34.732	33.994	33.899	33.344
36	M36x4	6g	35.940	35.465	33.342	33.118	31.610
	M36x4	4g6g	35.940	35.465	33.342	33.202	31.610
	M36x3	6g	35.952	35.577	34.003	33.803	32.704
	M36x3	4g6g	35.952	35.577	34.003	33.878	32.704
	M36x2	6g	35.962	35.682	34.663	34.493	33.797
	M36x2	4g6g	35.962	35.682	34.663	34.557	33.797
	M36x1.5	6g	35.968	35.732	34.994	34.844	34.344
	M36x1.5	4g6g	35.968	35.732	34.994	34.899	34.344
	M36x1	6g	35.974	35.794	35.324	35.199	34.891
	M36x1	4g6g	35.974	35.794	35.324	35.244	34.891
38	M38x1.5	6g	37.968	37.732	36.994	36.844	36.344
	M38x1.5	4g6g	37.968	37.732	36.994	36.899	36.344
39	M39x4	6g	38.940	38.465	36.342	36.118	34.610
	M39x4	4g6g	38.940	38.465	36.342	36.202	34.610
	M39x3	6g	38.952	38.577	37.003	36.803	35.704
	M39x3	4g6g	38.952	38.577	37.003	36.878	35.704
	M39x2	6g	38.962	38.682	37.663	37.493	36.797
	M39x2	4g6g	38.962	38.682	37.663	37.557	36.797
	M39x1.5	6g	38.968	38.732	37.994	37.844	37.344
	M39x1.5	4g6g	38.968	38.732	37.994	37.899	37.344
	M39x1	6g	38.974	38.794	38.324	38.199	37.891
	M39x1	4g6g	38.974	38.794	38.324	38.244	37.891
40	M40x3	6g	39.952	39.577	38.003	37.803	36.704
	M40x3	4g6g	39.952	39.577	38.003	37.878	36.704
	M40x2.5	6g	39.958	39.623	38.334	38.144	37.252
	M40x2.5	4g6g	39.958	39.623	38.334	38.215	37.252
	M40x2	6g	39.962	39.682	38.663	38.493	37.797
	M40x2	4g6g	39.962	39.682	38.663	38.557	37.797
	M40x1.5	6g	39.968	39.732	38.994	38.844	38.344
	M40x1.5	4g6g	39.968	39.732	38.994	38.899	38.344
42	M42x4.5	6g	41.937	41.437	39.014	38.778	37.066
	M42x4.5	4g6g	41.937	41.437	39.014	38.864	37.066
	M42x4	6g	41.940	41.465	39.342	39.118	37.610

	M42x4	4g6g	41.940	41.465	39.342	39.202	37.610
	M42x3	6g	41.952	41.577	40.003	39.803	38.704
	M42x3	4g6g	41.952	41.577	40.003	39.878	38.704
	M42x2	6g	41.962	41.682	40.663	40.493	39.797
	M42x2	4g6g	41.962	41.682	40.663	40.557	39.797
	M42x1.5	6g	41.968	41.732	40.994	40.844	40.344
	M42x1.5	4g6g	41.968	41.732	40.994	40.899	40.344
	M42x1	6g	41.974	41.794	41.324	41.199	40.891
	M42x1	4g6g	41.974	41.794	41.324	41.244	40.891
45	M45x4.5	6g	44.937	44.437	42.014	41.778	40.066
	M45x4.5	4g6g	44.937	44.437	42.014	41.864	40.066
	M45x4	6g	44.940	44.465	42.342	42.118	40.610
	M45x4	4g6g	44.940	44.465	42.342	42.202	40.610
	M45x3	6g	44.952	44.577	43.003	42.803	41.704
	M45x3	4g6g	44.952	44.577	43.003	42.878	41.704
	M45x2	6g	44.962	44.682	43.663	43.493	42.797
	M45x2	4g6g	44.962	44.682	43.663	43.557	42.797
	M45x1.5	6g	44.968	44.732	43.994	43.844	43.344
	M45x1.5	4g6g	44.968	44.732	43.994	43.899	43.344
	M45x1	6g	44.974	44.794	44.324	44.199	43.891
	M45x1	4g6g	44.974	44.794	44.324	44.244	43.891
48	M48x5	6g	47.929	47.399	44.681	44.431	42.516
	M48x5	4g6g	47.929	47.399	44.681	44.521	42.516
	M48x4	6g	47.940	47.465	45.342	45.106	43.610
	M48x4	4g6g	47.940	47.465	45.342	45.192	43.610
	M48x3	6g	47.952	47.577	46.003	45.791	44.704
	M48x3	4g6g	47.952	47.577	46.003	45.871	44.704
	M48x2	6g	47.962	47.682	46.663	46.483	45.797
	M48x2	4g6g	47.962	47.682	46.663	46.551	45.797
	M48x1.5	6g	47.968	47.732	46.994	46.834	46.344
	M48x1.5	4g6g	47.968	47.732	46.994	46.894	46.344
50	M50x4	6g	49.940	49.465	47.342	47.106	45.610
	M50x4	4g6g	49.940	49.465	47.342	47.192	45.610
	M50x3	6g	49.952	49.577	48.003	47.791	46.704
	M50x3	4g6g	49.952	49.577	48.003	47.871	46.704
	M50x2	6g	49.962	49.682	48.663	48.483	47.797
	M50x2	4g6g	49.962	49.682	48.663	48.551	47.797
	M50x1.5	6g	49.968	49.732	48.994	48.834	48.344
	M50x1.5	4g6g	49.968	49.732	48.994	48.894	48.344
52	M52x5	6g	51.929	51.399	48.681	48.445	46.516
	M52x5	4g6g	51.929	51.399	48.681	48.531	46.516
	M52x4	6g	51.940	51.465	49.342	49.106	47.610
	M52x4	4g6g	51.940	51.465	49.342	49.192	47.610
	M52x3	6g	51.952	51.577	50.003	49.791	48.704
	M52x3	4g6g	51.952	51.577	50.003	49.871	48.704
	M52x2	6g	51.962	51.682	50.663	50.483	49.797
	M52x2	4g6g	51.962	51.682	50.663	50.551	49.797
	M52x1.5	6g	51.968	51.732	50.994	50.834	50.344
	M52x1.5	4g6g	51.968	51.732	50.994	50.894	50.344
55	M55x4	6g	54.940	54.465	52.342	52.106	50.610
	M55x4	4g6g	54.940	54.465	52.342	52.192	50.610
	M55x3	6g	54.952	54.577	53.003	52.791	51.704
	M55x3	4g6g	54.952	54.577	53.003	52.871	51.704
	M55x2	6g	54.962	54.682	53.663	53.483	52.797
	M55x2	4g6g	54.962	54.682	53.663	53.551	52.797
	M55x1.5	6g	54.968	54.732	53.994	53.834	53.344

	M55x1.5	4g6g	54.968	54.732	53.994	53.894	53.344
56	M56x6.5	6g	55.915	55.285	51.693	51.393	48.879
	M56x6.5	4g6g	55.915	55.285	51.693	51.503	48.879
	M56x5.5	6g	55.925	55.365	52.353	52.088	49.971
	M56x5.5	4g6g	55.925	55.365	52.353	52.183	49.971
	M56x4	6g	55.940	55.465	53.342	53.106	51.610
	M56x4	4g6g	55.940	55.465	53.342	53.192	51.610
	M56x3	6g	55.952	55.577	54.003	53.791	52.704
	M56x3	4g6g	55.952	55.577	54.003	53.871	52.704
	M56x2	6g	55.962	55.682	54.663	54.483	53.797
	M56x2	4g6g	55.962	55.682	54.663	54.551	53.797
	M56x1.5	6g	55.968	55.732	54.994	54.834	54.344
	M56x1.5	4g6g	55.968	55.732	54.994	54.894	54.344
	M56x1	6g	55.974	55.794	55.324	55.184	54.891
	M56x1	4g6g	55.974	55.794	55.324	55.234	54.891
58	M58x4	6g	57.940	57.465	55.342	55.106	53.610
	M58x4	4g6g	57.940	57.465	55.342	55.192	53.610
	M58x3	6g	57.952	57.577	56.003	55.791	54.704
	M58x3	4g6g	57.952	57.577	56.003	55.871	54.704
	M58x2	6g	57.962	57.682	56.663	56.483	55.797
	M58x2	4g6g	57.962	57.682	56.663	56.551	55.797
	M58x1.5	6g	57.968	57.732	56.994	56.834	56.344
	M58x1.5	4g6g	57.968	57.732	56.994	56.894	56.344
60	M60x5.5	6g	59.925	59.365	56.353	56.088	53.971
	M60x5.5	4g6g	59.925	59.365	56.353	56.183	53.971
	M60x4	6g	59.940	59.465	57.342	57.106	55.610
	M60x4	4g6g	59.940	59.465	57.342	57.192	55.610
	M60x3	6g	59.952	59.577	58.003	57.791	56.704
	M60x3	4g6g	59.952	59.577	58.003	57.871	56.704
	M60x2	6g	59.962	59.682	58.663	58.483	57.797
	M60x2	4g6g	59.962	59.682	58.663	58.551	57.797
	M60x1.5	6g	59.968	59.732	58.994	58.834	58.344
	M60x1.5	4g6g	59.968	59.732	58.994	58.894	58.344
	M60x1	6g	59.974	59.794	59.324	59.184	58.891
	M60x1	4g6g	59.974	59.794	59.324	59.234	58.891
62	M62x4	6g	61.940	61.465	59.342	59.106	57.610
	M62x4	4g6g	61.940	61.465	59.342	59.192	57.610
	M62x3	6g	61.952	61.577	60.003	59.791	58.704
	M62x3	4g6g	61.952	61.577	60.003	59.871	58.704
	M62x2	6g	61.962	61.682	60.663	60.483	59.797
	M62x2	4g6g	61.962	61.682	60.663	60.551	59.797
	M62x1.5	6g	61.968	61.732	60.994	60.834	60.344
	M62x1.5	4g6g	61.968	61.732	60.994	60.894	60.344
63	M63x1.5	6g	62.968	62.732	61.994	61.834	61.344
	M63x1.5	4g6g	62.968	62.732	61.994	61.894	61.344
64	M64x6	6g	63.920	63.320	60.023	59.743	57.425
	M64x6	4g6g	63.920	63.320	60.023	59.843	57.425
	M64x5.5	6g	63.925	63.365	60.353	60.088	57.971
	M64x5.5	4g6g	63.925	63.365	60.353	60.183	57.971
	M64x4	6g	63.940	63.465	61.342	61.106	59.610
	M64x4	4g6g	63.940	63.465	61.342	61.192	59.610
	M64x3	6g	63.952	63.577	62.003	61.791	60.704
	M64x3	4g6g	63.952	63.577	62.003	61.871	60.704
	M64x2	6g	63.962	63.682	62.663	62.483	61.797
	M64x2	4g6g	63.962	63.682	62.663	62.551	61.797
	M64x1.5	6g	63.968	63.732	62.994	62.834	62.344

	M64x1.5	4g6g	63.968	63.732	62.994	62.894	62.344
	M64x1	6g	63.974	63.794	63.324	63.184	62.891
	M64x1	4g6g	63.974	63.794	63.324	63.234	62.891
65	M65x4	6g	64.940	64.465	62.342	62.106	60.610
	M65x4	4g6g	64.940	64.465	62.342	62.192	60.610
	M65x3	6g	64.952	64.577	63.003	62.791	61.704
	M65x3	4g6g	64.952	64.577	63.003	62.871	61.704
	M65x2	6g	64.962	64.682	63.663	63.483	62.797
	M65x2	4g6g	64.962	64.682	63.663	63.551	62.797
	M65x1.5	6g	64.968	64.732	63.994	63.834	63.344
	M65x1.5	4g6g	64.968	64.732	63.994	63.894	63.344
68	M68x6	6g	67.920	67.320	64.023	63.743	61.425
	M68x6	4g6g	67.920	67.320	64.023	63.843	61.425
	M68x4	6g	67.940	67.465	65.342	65.106	63.610
	M68x4	4g6g	67.940	67.465	65.342	65.192	63.610
	M68x3	6g	67.952	67.577	66.003	65.791	64.704
	M68x3	4g6g	67.952	67.577	66.003	65.871	64.704
	M68x2	6g	67.962	67.682	66.663	66.483	65.797
	M68x2	4g6g	67.962	67.682	66.663	66.551	65.797
	M68x1.5	6g	67.968	67.732	66.994	66.834	66.344
	M68x1.5	4g6g	67.968	67.732	66.994	66.894	66.344
	M68x1	6g	67.974	67.794	67.324	67.184	66.891
	M68x1	4g6g	67.974	67.794	67.324	67.234	66.891
70	M70x6	6g	69.920	69.320	66.023	65.743	63.425
	M70x6	4g6g	69.920	69.320	66.023	65.843	63.425
	M70x4	6g	69.940	69.465	67.342	67.106	65.610
	M70x4	4g6g	69.940	69.465	67.342	67.192	65.610
	M70x3	6g	69.952	69.577	68.003	67.791	66.704
	M70x3	4g6g	69.952	69.577	68.003	67.871	66.704
	M70x2	6g	69.962	69.682	68.663	68.483	67.797
	M70x2	4g6g	69.962	69.682	68.663	68.551	67.797
	M70x1.5	6g	69.968	69.732	68.994	68.834	68.344
	M70x1.5	4g6g	69.968	69.732	68.994	68.894	68.344
72	M72x6	6g	71.920	71.320	68.023	67.743	65.425
	M72x6	4g6g	71.920	71.320	68.023	67.843	65.425
	M72x4	6g	71.940	71.465	69.342	69.106	67.610
	M72x4	4g6g	71.940	71.465	69.342	69.192	67.610
	M72x3	6g	71.952	71.577	70.003	69.791	68.704
	M72x3	4g6g	71.952	71.577	70.003	69.871	68.704
	M72x2	6g	71.962	71.682	70.663	70.483	69.797
	M72x2	4g6g	71.962	71.682	70.663	70.551	69.797
	M72x1.5	6g	71.968	71.732	70.994	70.834	70.344
	M72x1.5	4g6g	71.968	71.732	70.994	70.894	70.344
	M72x1	6g	71.974	71.794	71.324	71.184	70.891
	M72x1	4g6g	71.974	71.794	71.324	71.234	70.891
75	M75x6	6g	74.920	74.320	71.023	70.743	68.425
	M75x6	4g6g	74.920	74.320	71.023	70.843	68.425
	M75x4	6g	74.940	74.465	72.342	72.106	70.610
	M75x4	4g6g	74.940	74.465	72.342	72.192	70.610
	M75x3	6g	74.952	74.577	73.003	72.791	71.704
	M75x3	4g6g	74.952	74.577	73.003	72.871	71.704
	M75x2	6g	74.962	74.682	73.663	73.483	72.797
	M75x2	4g6g	74.962	74.682	73.663	73.551	72.797
	M75x1.5	6g	74.968	74.732	73.994	73.834	73.344
	M75x1.5	4g6g	74.968	74.732	73.994	73.894	73.344
76	M76x6	6g	75.920	75.320	72.023	71.743	69.425

	M76x6	4g6g	75.920	75.320	72.023	71.843	69.425
	M76x4	6g	75.940	75.465	73.342	73.106	71.610
	M76x4	4g6g	75.940	75.465	73.342	73.192	71.610
	M76x3	6g	75.952	75.577	74.003	73.791	72.704
	M76x3	4g6g	75.952	75.577	74.003	73.871	72.704
	M76x2	6g	75.962	75.682	74.663	74.483	73.797
	M76x2	4g6g	75.962	75.682	74.663	74.551	73.797
	M76x1.5	6g	75.968	75.732	74.994	74.834	74.344
	M76x1.5	4g6g	75.968	75.732	74.994	74.894	74.344
	M76x1	6g	75.974	75.794	75.324	75.184	74.891
	M76x1	4g6g	75.974	75.794	75.324	75.234	74.891
78	M78x2	6g	77.962	77.682	76.663	76.483	75.797
	M78x2	4g6g	77.962	77.682	76.663	76.551	75.797
80	M80x6	6g	79.920	79.320	76.023	75.743	73.425
	M80x6	4g6g	79.920	79.320	76.023	75.843	73.425
	M80x4	6g	79.940	79.340	77.342	77.106	75.610
	M80x4	4g6g	79.940	79.340	77.342	77.192	75.610
	M80x3	6g	79.952	79.577	78.003	77.791	76.704
	M80x3	4g6g	79.952	79.577	78.003	77.871	76.704
	M80x2	6g	79.962	79.682	78.663	78.483	77.797
	M80x2	4g6g	79.962	79.682	78.663	78.551	77.797
	M80x1.5	6g	79.968	79.732	78.994	78.834	78.344
	M80x1.5	4g6g	79.968	79.732	78.994	78.894	78.334
	M80x1	6g	79.974	79.794	79.324	79.184	78.891
	M80x1	4g6g	79.974	79.794	79.324	79.234	78.891
82	M82x2	6g	81.962	81.682	80.663	80.483	79.797
	M82x2	4g6g	81.962	81.682	80.663	80.551	79.797
85	M85x6	6g	84.920	84.320	81.023	80.743	78.425
	M85x6	4g6g	84.920	84.320	81.023	80.843	78.425
	M85x4	6g	84.940	84.465	82.342	82.106	80.610
	M85x4	4g6g	84.940	84.465	82.342	82.192	80.610
	M85x3	6g	84.952	84.577	83.003	82.791	81.704
	M85x3	4g6g	84.952	84.577	83.003	82.871	81.704
	M85x2	6g	84.962	84.682	83.663	83.483	82.797
	M85x2	4g6g	84.962	84.682	83.663	83.551	82.797
	M85x1.5	6g	84.968	84.732	83.994	83.834	83.344
	M85x1.5	4g6g	84.968	84.732	83.994	83.894	83.344
90	M90x6	6g	89.920	89.320	86.023	85.743	83.425
	M90x6	4g6g	89.920	89.320	86.023	85.843	83.425
	M90x4	6g	89.940	89.465	87.342	87.106	85.610
	M90x4	4g6g	89.940	89.465	87.342	87.192	85.610
	M90x3	6g	89.952	89.577	88.003	87.791	86.704
	M90x3	4g6g	89.952	89.577	88.003	87.871	86.704
	M90x2	6g	89.962	89.682	88.663	88.483	87.797
	M90x2	4g6g	89.962	89.682	88.663	88.551	87.797
	M90x1.5	6g	89.968	89.732	88.994	88.834	88.344
	M90x1.5	4g6g	89.968	89.732	88.994	88.894	88.344
95	M95x6	6g	94.920	94.320	91.023	90.723	88.425
	M95x6	4g6g	94.920	94.320	91.023	90.833	88.425
	M95x4	6g	94.940	94.465	92.342	92.092	90.610
	M95x4	4g6g	94.940	94.465	92.342	92.182	90.610
	M95x3	6g	94.952	94.577	93.003	92.779	91.704
	M95x3	4g6g	94.952	94.577	93.003	92.863	91.704
	M95x2	6g	94.962	94.682	93.663	93.473	92.797
	M95x2	4g6g	94.962	94.682	93.663	93.545	92.797
	M95x1.5	6g	94.968	94.732	93.994	93.814	93.344

	M95x1.5	4g6g	94.968	94.732	93.994	93.882	93.344
100	M100x6	6g	99.920	99.320	96.023	95.723	93.425
	M100x6	4g6g	99.920	99.320	96.023	95.833	93.425
	M100x4	6g	99.940	99.465	97.342	97.092	95.610
	M100x4	4g6g	99.940	99.465	97.342	97.182	95.610
	M100x3	6g	99.952	99.577	98.003	97.779	96.704
	M100x3	4g6g	99.952	99.577	98.003	97.863	96.704
	M100x2	6g	99.962	99.682	98.663	98.473	97.797
	M100x2	4g6g	99.962	99.682	98.663	98.545	97.797
	M100x1.5	6g	99.968	99.732	98.994	98.814	98.344
	M100x1.5	4g6g	99.968	99.732	98.994	98.882	98.344
105	M105x6	6g	104.920	104.320	101.023	100.723	98.425
	M105x6	4g6g	104.920	104.320	101.023	100.833	98.425
	M105x4	6g	104.940	104.465	102.342	102.092	100.610
	M105x4	4g6g	104.940	104.465	102.342	102.182	100.610
	M105x3	6g	104.952	104.577	103.003	102.779	101.704
	M105x3	4g6g	104.952	104.577	103.003	102.863	101.704
	M105x2	6g	104.962	104.682	103.663	103.473	102.797
	M105x2	4g6g	104.962	104.682	103.663	103.545	102.797
	M105x1.5	6g	104.968	104.732	103.994	103.814	103.344
	M105x1.5	4g6g	104.968	104.732	103.994	103.882	103.344
110	M110x6	6g	109.920	109.320	106.023	105.723	103.425
	M110x6	4g6g	109.920	109.320	106.023	105.833	103.425
	M110x4	6g	109.940	109.465	107.342	107.092	105.610
	M110x4	4g6g	109.940	109.465	107.342	107.182	105.610
	M110x3	6g	109.952	109.577	108.003	107.779	106.704
	M110x3	4g6g	109.952	109.577	108.003	107.863	106.704
	M110x2	6g	109.962	109.682	108.663	108.473	107.797
	M110x2	4g6g	109.962	109.682	108.663	108.545	107.797
	M110x1.5	6g	109.968	109.732	108.994	108.814	108.344
	M110x1.5	4g6g	109.968	109.732	108.994	108.882	108.344
115	M115x6	6g	114.920	114.320	111.023	110.723	108.425
	M115x6	4g6g	114.920	114.320	111.023	110.833	108.425
	M115x4	6g	114.940	114.465	112.342	112.092	110.610
	M115x4	4g6g	114.940	114.465	112.342	112.182	110.610
	M115x3	6g	114.952	114.577	113.003	112.779	111.704
	M115x3	4g6g	114.952	114.577	113.003	112.863	111.704
	M115x2	6g	114.962	114.682	113.663	113.473	112.797
	M115x2	4g6g	114.962	114.682	113.663	113.543	112.797
	M115x1.5	6g	114.968	114.732	113.994	113.814	113.344
	M115x1.5	4g6g	114.968	114.732	113.994	113.882	113.344
120	M120x6	6g	119.920	119.320	116.023	115.723	113.425
	M120x6	4g6g	119.920	119.320	116.023	115.833	113.425
	M120x4	6g	119.940	119.465	117.342	117.092	115.610
	M120x4	4g6g	119.940	119.465	117.342	117.182	115.610
	M120x3	6g	119.952	119.577	118.003	117.779	116.704
	M120x3	4g6g	119.952	119.577	118.003	117.863	116.704
	M120x2	6g	119.962	119.682	118.663	118.473	117.797
	M120x2	4g6g	119.962	119.682	118.663	118.545	117.797
	M120x1.5	6g	119.968	119.732	118.994	118.814	118.344
	M120x1.5	4g6g	119.968	119.732	118.994	118.882	118.344
125	M125x8	6g	124.900	124.190	119.704	119.369	116.240
	M125x8	4g6g	124.900	124.190	119.704	119.492	116.240
	M125x6	6g	124.920	124.320	121.023	120.723	118.425
	M125x6	4g6g	124.920	124.320	121.023	120.833	118.425
	M125x4	6g	124.940	124.465	122.342	122.092	120.610

	M125x4	4g6g	124.940	124.465	122.342	122.182	120.610
	M125x3	6g	124.952	124.577	123.003	122.779	121.704
	M125x3	4g6g	124.952	124.577	123.003	122.863	121.704
	M125x2	6g	124.962	124.682	123.663	123.473	122.797
	M125x2	4g6g	124.962	124.682	123.663	123.543	122.797
	M125x1.5	6g	124.968	124.732	123.994	123.814	123.344
	M125x1.5	4g6g	124.968	124.732	123.994	123.882	123.344
130	M130x8	6g	129.900	129.190	124.704	124.369	121.240
	M130x8	4g6g	129.900	129.190	124.704	124.492	121.240
	M130x6	6g	129.920	129.320	126.023	125.723	123.425
	M130x6	4g6g	129.920	129.320	126.023	125.833	123.425
	M130x4	6g	129.940	129.465	127.342	127.092	125.610
	M130x4	4g6g	129.940	129.465	127.342	127.182	125.610
	M130x3	6g	129.952	129.577	128.003	127.779	126.704
	M130x3	4g6g	129.952	129.577	128.003	127.863	126.704
	M130x2	6g	129.962	129.682	128.663	128.473	127.797
	M130x2	4g6g	139.962	139.682	138.663	138.545	137.797
	M130x1.5	6g	129.968	129.732	128.994	128.814	128.344
	M130x1.5	4g6g	129.968	129.732	128.994	128.882	128.344
135	M135x6	6g	134.920	134.320	131.023	130.723	128.425
	M135x6	4g6g	134.920	134.320	131.023	130.833	128.425
	M135x4	6g	134.940	134.465	132.342	132.092	130.610
	M135x4	4g6g	134.940	134.465	132.342	132.182	130.610
	M135x3	6g	134.952	134.577	133.003	132.779	131.704
	M135x3	4g6g	134.952	134.577	133.003	132.863	131.704
	M135x2	6g	134.962	134.682	133.663	133.473	132.797
	M135x2	4g6g	134.962	134.682	133.663	133.543	132.797
	M135x1.5	6g	134.968	134.732	133.994	133.814	133.344
	M135x1.5	4g6g	134.968	134.732	133.994	133.882	133.344
140	M140x8	6g	139.900	139.190	134.704	134.369	131.240
	M140x8	4g6g	139.900	139.190	134.704	134.492	131.240
	M140x6	6g	139.920	139.320	136.023	135.723	133.425
	M140x6	4g6g	139.920	139.320	136.023	135.833	133.425
	M140x4	6g	139.940	139.465	137.342	137.092	135.610
	M140x4	4g6g	139.940	139.465	137.342	137.182	135.610
	M140x3	6g	139.952	139.577	138.003	137.779	136.704
	M140x3	4g6g	139.952	139.577	138.003	137.863	136.704
	M140x2	6g	139.962	139.682	138.663	138.473	137.797
	M140x2	4g6g	139.962	139.682	138.663	138.545	137.797
	M140x1.5	6g	139.968	139.732	138.994	138.814	138.344
	M140x1.5	4g6g	139.968	139.732	138.994	138.882	138.344
145	M145x6	6g	144.920	144.320	141.023	140.723	138.425
	M145x6	4g6g	144.920	144.320	141.023	140.833	138.425
	M145x4	6g	144.940	144.465	142.342	142.092	140.610
	M145x4	4g6g	144.940	144.465	142.342	142.182	140.610
	M145x3	6g	144.952	144.577	143.003	142.779	141.704
	M145x3	4g6g	144.952	144.577	143.003	142.863	141.704
	M145x2	6g	144.962	144.682	143.663	143.473	142.797
	M145x2	4g6g	144.962	144.682	143.663	143.543	142.797
	M145x1.5	6g	144.968	144.732	143.994	143.814	143.344
	M145x1.5	4g6g	144.968	144.732	143.994	143.882	143.344
150	M150x8	6g	149.900	149.190	144.704	144.369	141.240
	M150x8	4g6g	149.900	149.190	144.704	144.492	141.240
	M150x6	6g	149.920	149.320	146.023	145.723	143.425
	M150x6	4g6g	149.920	149.320	146.023	145.833	143.425
	M150x4	6g	149.940	149.465	147.342	147.092	145.610

	M150x4	4g6g	149.940	149.465	147.342	147.182	145.610
	M150x3	6g	149.952	149.577	148.003	147.779	146.704
	M150x3	4g6g	149.952	149.577	148.003	147.863	146.704
	M150x2	6g	149.962	149.682	148.663	148.473	147.797
	M150x2	4g6g	149.962	149.682	148.663	148.545	147.797
	M150x1.5	6g	149.968	149.732	148.994	148.814	148.344
	M150x1.5	4g6g	149.968	149.732	148.994	148.882	148.344
155	M155x6	6g	154.920	154.320	151.023	150.723	148.425
	M155x6	4g6g	154.920	154.320	151.023	150.833	148.425
	M155x4	6g	154.940	154.465	152.342	152.092	150.610
	M155x4	4g6g	154.940	154.465	152.342	152.182	150.610
	M155x3	6g	154.952	154.577	153.003	152.779	151.704
	M155x3	4g6g	154.952	154.577	153.003	152.863	151.704
	M155x2	6g	154.962	154.682	153.663	153.473	152.797
	M155x2	4g6g	154.962	154.682	153.663	153.543	152.797
160	M160x8	6g	159.900	159.190	154.704	154.369	151.240
	M160x8	4g6g	159.900	159.190	154.704	154.492	151.240
	M160x6	6g	159.920	159.320	156.023	155.723	153.425
	M160x6	4g6g	159.920	159.320	156.023	155.833	153.425
	M160x4	6g	159.940	159.465	157.342	157.092	155.610
	M160x4	4g6g	159.940	159.465	157.342	157.182	155.610
	M160x3	6g	159.952	159.577	158.003	157.779	156.704
	M160x3	4g6g	159.952	159.577	158.003	157.863	156.704
	M160x2	6g	159.962	159.682	158.663	158.473	157.797
	M160x2	4g6g	159.962	159.682	158.663	158.543	157.797
165	M165x6	6g	164.920	164.320	161.023	160.723	158.425
	M165x6	4g6g	164.920	164.320	161.023	160.833	158.425
	M165x4	6g	164.940	164.465	162.342	162.092	160.610
	M165x4	4g6g	164.940	164.465	162.342	162.182	160.610
	M165x3	6g	164.952	164.577	163.003	162.779	161.704
	M165x3	4g6g	164.952	164.577	163.003	162.863	161.704
	M165x2	6g	164.962	164.682	163.663	163.473	162.797
	M165x2	4g6g	164.962	164.682	163.663	163.543	162.797
170	M170x8	6g	169.900	169.190	164.704	164.369	161.240
	M170x8	4g6g	169.900	169.190	164.704	164.492	161.240
	M170x6	6g	169.920	169.320	166.023	165.723	163.425
	M170x6	4g6g	169.920	169.320	166.023	165.833	163.425
	M170x4	6g	169.940	169.465	167.342	167.092	165.610
	M170x4	4g6g	169.940	169.465	167.342	167.182	165.610
	M170x3	6g	169.952	169.577	168.003	167.779	166.704
	M170x3	4g6g	169.952	169.577	168.003	167.863	166.704
	M170x2	6g	169.962	169.682	168.663	168.473	167.797
	M170x2	4g6g	169.962	169.682	168.663	168.543	167.797
175	M175x6	6g	174.920	174.320	171.023	170.723	168.425
	M175x6	4g6g	174.920	174.320	171.023	170.833	168.425
	M175x4	6g	174.940	174.465	172.342	172.092	170.610
	M175x4	4g6g	174.940	174.465	172.342	172.182	170.610
	M175x3	6g	174.952	174.577	173.003	172.779	171.704
	M175x3	4g6g	174.952	174.577	173.003	172.862	171.704
	M175x2	6g	174.962	174.682	173.663	173.473	172.797
	M175x2	4g6g	174.962	174.682	173.663	173.543	172.797
180	M180x8	6g	179.900	179.190	174.704	174.369	171.240
	M180x8	4g6g	179.900	179.190	174.704	174.492	171.240
	M180x6	6g	179.920	179.320	176.023	175.723	173.425
	M180x6	4g6g	179.920	179.320	176.023	175.833	173.425
	M180x4	6g	179.940	179.465	177.342	177.092	175.610

	M180x4	4g6g	179.940	179.465	177.342	177.182	175.610
	M180x3	6g	179.952	179.577	178.003	177.779	176.704
	M180x3	4g6g	179.952	179.577	178.003	177.863	176.704
	M180x2	6g	179.962	179.682	178.663	178.473	177.797
	M180x2	4g6g	179.962	179.682	178.663	178.543	177.797
185	M185x6	6g	184.920	184.320	181.023	180.708	178.425
	M185x6	4g6g	184.920	184.320	181.023	180.823	178.425
	M185x4	6g	184.940	184.465	182.342	182.062	180.610
	M185x4	4g6g	184.940	184.465	182.342	182.162	180.610
	M185x3	6g	184.952	184.577	183.003	182.753	181.704
	M185x3	4g6g	184.952	184.577	183.003	182.843	181.704
	M185x2	6g	184.962	184.682	183.663	183.451	182.797
	M185x2	4g6g	184.962	184.682	183.663	183.531	182.797
190	M190x8	6g	189.900	189.190	184.704	184.349	181.240
	M190x8	4g6g	189.900	189.190	184.704	184.480	181.240
	M190x6	6g	189.920	189.320	186.023	185.708	183.425
	M190x6	4g6g	189.920	189.320	186.023	185.823	183.425
	M190x4	6g	189.940	189.465	187.342	187.062	185.610
	M190x4	4g6g	189.940	189.465	187.342	187.162	185.610
	M190x3	6g	189.952	189.577	188.003	187.753	186.704
	M190x3	4g6g	189.952	189.577	188.003	187.843	186.704
	M190x2	6g	189.962	189.682	188.663	188.451	187.797
	M190x2	4g6g	189.962	189.682	188.663	188.531	187.797
195	M195x6	6g	194.920	194.320	191.023	190.708	188.425
	M195x6	4g6g	194.920	194.320	191.023	190.823	188.425
	M195x4	6g	194.940	194.465	192.342	192.062	190.610
	M195x4	4g6g	194.940	194.465	192.342	192.162	190.610
	M195x3	6g	194.952	194.577	193.003	192.753	191.704
	M195x3	4g6g	194.952	194.577	193.003	192.843	191.704
	M195x2	6g	194.962	194.682	193.663	193.451	192.797
	M195x2	4g6g	194.962	194.682	193.663	193.531	192.797
200	M200x8	6g	199.900	199.190	194.704	194.349	191.240
	M200x8	4g6g	199.900	199.190	194.704	194.480	191.240
	M200x6	6g	199.920	199.320	196.023	195.708	193.425
	M200x6	4g6g	199.920	199.320	196.023	195.823	193.425
	M200x4	6g	199.940	199.465	197.342	197.062	195.610
	M200x4	4g6g	199.940	199.465	197.342	197.162	195.610
	M200x3	6g	199.952	199.577	198.003	197.753	196.704
	M200x3	4g6g	199.952	199.577	198.003	197.843	196.704
	M200x2	6g	199.962	199.682	198.663	198.451	197.797
	M200x2	4g6g	199.962	199.682	198.663	198.531	197.797
205	M205x6	6g	204.920	204.320	201.023	200.708	198.425
	M205x6	4g6g	204.920	204.320	201.023	200.823	198.425
	M205x4	6g	204.940	204.465	202.342	202.062	200.610
	M205x4	4g6g	204.940	204.465	202.342	202.162	200.610
	M205x3	6g	204.952	204.577	203.003	202.753	201.704
	M205x3	4g6g	204.952	204.577	203.003	202.843	201.704
	M205x2	6g	204.962	204.682	203.663	203.451	202.797
	M205x2	4g6g	204.962	204.682	203.663	203.531	202.797
210	M210x8	6g	209.900	209.190	204.704	204.349	201.240
	M210x8	4g6g	209.900	209.190	204.704	204.480	201.240
	M210x6	6g	209.920	209.320	206.023	205.708	203.425
	M210x6	4g6g	209.920	209.320	206.023	205.823	203.425
	M210x4	6g	209.940	209.465	207.342	207.062	205.610
	M210x4	4g6g	209.940	209.465	207.342	207.162	205.610
	M210x3	6g	209.952	209.577	208.003	207.753	206.704

	M210x3	4g6g	209.952	209.577	208.003	207.843	206.704
	M210x2	6g	209.962	209.682	208.663	208.451	207.797
	M210x2	4g6g	209.962	209.682	208.663	208.531	207.797
215	M215x6	6g	214.920	214.320	211.023	210.708	208.425
	M215x6	4g6g	214.920	214.320	211.023	210.823	208.425
	M215x4	6g	214.940	214.465	212.342	212.062	210.610
	M215x4	4g6g	214.940	214.465	212.342	212.162	210.610
	M215x3	6g	214.952	214.577	213.003	212.753	211.704
	M215x3	4g6g	214.952	214.577	213.003	212.843	211.704
220	M220x8	6g	219.900	219.190	214.704	214.349	211.240
	M220x8	4g6g	219.900	219.190	214.704	214.480	211.240
	M220x6	6g	219.920	219.320	216.023	215.708	213.425
	M220x6	4g6g	219.920	219.320	216.023	215.823	213.425
	M220x4	6g	219.940	219.465	217.342	217.062	215.610
	M220x4	4g6g	219.940	219.465	217.342	217.162	215.610
	M220x3	6g	219.952	219.577	218.003	217.753	216.704
	M220x3	4g6g	219.952	219.577	218.003	217.843	216.704
	M220x2	6g	219.962	219.682	218.663	218.451	217.797
	M220x2	4g6g	219.962	219.682	218.663	218.531	217.797
225	M225x6	6g	224.920	224.545	221.023	220.708	218.425
	M225x6	4g6g	224.920	224.545	221.023	220.823	218.425
	M225x4	6g	224.940	224.465	222.342	222.062	220.610
	M225x4	4g6g	224.940	224.465	222.342	222.162	220.610
	M225x3	6g	224.952	224.577	223.003	222.753	221.704
	M225x3	4g6g	224.952	224.577	223.003	222.843	221.704
	M225x2	6g	224.962	224.682	223.663	223.451	222.797
	M225x2	4g6g	224.962	224.682	223.663	223.531	222.797
230	M230x6	6g	229.920	229.320	226.023	225.708	223.425
	M230x6	4g6g	229.920	229.320	226.023	225.823	223.425
	M230x4	6g	229.940	229.465	227.342	227.062	225.610
	M230x4	4g6g	229.940	229.465	227.342	227.162	225.610
	M230x3	6g	229.952	229.577	228.003	227.753	226.704
	M230x3	4g6g	229.952	229.577	228.003	227.843	226.704
	M230x2	6g	229.962	229.682	228.663	228.451	227.797
	M230x2	4g6g	229.962	229.682	228.663	228.531	227.797
235	M235x6	6g	234.920	234.320	231.023	230.668	228.425
	M235x6	4g6g	234.920	234.320	231.023	230.799	228.425
	M235x4	6g	234.940	234.465	232.342	232.062	230.610
	M235x4	4g6g	234.940	234.465	232.342	232.162	230.610
	M235x3	6g	234.952	234.577	233.003	232.753	231.704
	M235x3	4g6g	234.952	234.577	233.003	232.843	231.704
240	M240x8	6g	239.900	239.190	234.704	234.349	231.240
	M240x8	4g6g	239.900	239.190	234.704	234.480	231.240
	M240x6	6g	239.920	239.320	236.023	235.708	233.425
	M240x6	4g6g	239.920	239.320	236.023	235.823	233.425
	M240x4	6g	239.940	239.465	237.342	237.062	235.610
	M240x4	4g6g	239.940	239.465	237.342	237.162	235.610
	M240x3	6g	239.952	239.577	238.003	237.753	236.704
	M240x3	4g6g	239.952	239.577	238.003	237.843	236.704
	M240x2	6g	239.962	239.682	238.663	238.451	237.797
	M240x2	4g6g	239.962	239.682	238.663	238.531	237.797
245	M245x6	6g	244.920	244.320	241.023	240.708	238.425
	M245x6	4g6g	244.920	244.320	241.023	240.823	238.425
	M245x4	6g	244.940	244.465	242.342	242.062	240.610
	M245x4	4g6g	244.940	244.465	242.342	242.162	240.610
	M245x3	6g	244.952	244.577	243.003	242.753	241.704

	M245x3	4g6g	244.952	244.577	243.003	242.843	241.704
	M245x2	6g	244.962	244.682	243.663	243.451	242.797
	M245x2	4g6g	244.962	244.682	243.663	243.531	242.797
250	M250x8	6g	249.900	249.190	244.704	244.349	241.240
	M250x8	4g6g	249.900	249.190	244.704	244.480	241.240
	M250x6	6g	249.920	249.320	246.023	245.708	243.425
	M250x6	4g6g	249.920	249.320	246.023	245.823	243.425
	M250x4	6g	249.940	249.465	247.342	247.062	245.610
	M250x4	4g6g	249.940	249.465	247.342	247.162	245.610
	M250x3	6g	249.952	249.577	248.003	247.753	246.704
	M250x3	4g6g	249.952	249.577	248.003	247.843	246.704
	M250x2	6g	249.962	249.682	248.663	248.451	247.797
	M250x2	4g6g	249.962	249.682	248.663	248.531	247.797
255	M255x6	6g	254.920	254.320	251.023	250.668	248.425
	M255x6	4g6g	254.920	254.320	251.023	250.799	248.425
	M255x4	6g	254.940	254.465	252.342	252.062	250.610
	M255x4	4g6g	254.940	254.465	252.342	252.162	250.610
	M255x3	6g	254.952	254.577	253.003	252.753	251.704
	M255x3	4g6g	254.952	254.577	253.003	252.843	251.704
260	M260x8	6g	259.900	259.190	254.704	254.349	251.240
	M260x8	4g6g	259.900	259.190	254.704	254.480	251.240
	M260x6	6g	259.920	259.320	256.023	255.708	253.425
	M260x6	4g6g	259.920	259.320	256.023	255.823	253.425
	M260x4	6g	259.940	259.465	257.342	257.062	255.610
	M260x4	4g6g	259.940	259.465	257.342	257.162	255.610
	M260x3	6g	259.952	259.577	258.003	257.753	256.704
	M260x3	4g6g	259.952	259.577	258.003	257.843	256.704
265	M265x6	6g	264.920	264.320	261.023	260.708	258.425
	M265x6	4g6g	264.920	264.320	261.023	260.823	258.425
	M265x4	6g	264.940	264.465	262.342	262.062	260.610
	M265x4	4g6g	264.940	264.465	262.342	262.162	260.610
	M265x3	6g	264.952	264.577	263.003	262.753	261.704
	M265x3	4g6g	264.952	264.577	263.003	262.843	261.704
270	M270x6	6g	269.920	269.320	266.023	265.708	263.425
	M270x6	4g6g	269.920	269.320	266.023	265.823	263.425
	M270x4	6g	269.940	269.465	267.342	267.062	265.610
	M270x4	4g6g	269.940	269.465	267.342	267.162	265.610
	M270x3	6g	269.952	269.577	268.003	267.753	266.704
	M270x3	4g6g	269.952	269.577	268.003	267.843	266.704
275	M275x6	6g	274.920	274.320	271.023	270.708	268.425
	M275x6	4g6g	274.920	274.320	271.023	270.823	268.425
	M275x4	6g	274.940	274.465	272.342	272.062	270.610
	M275x4	4g6g	274.940	274.465	272.342	272.162	270.610
	M275x3	6g	274.952	274.577	273.003	272.753	271.704
	M275x3	4g6g	274.952	274.577	273.003	272.843	271.704
280	M280x8	6g	279.900	279.190	274.704	274.349	271.240
	M280x8	4g6g	279.900	279.190	274.704	274.480	271.240
	M280x6	6g	279.920	279.320	276.023	275.708	273.425
	M280x6	4g6g	279.920	279.320	276.023	275.823	273.425
	M280x4	6g	279.940	279.465	277.342	277.062	275.610
	M280x4	4g6g	279.940	279.465	277.342	277.162	275.610
	M280x3	6g	279.952	279.577	278.003	277.753	276.704
	M280x3	4g6g	279.952	279.577	278.003	277.843	276.704
285	M285x6	6g	284.920	284.320	281.023	280.708	278.425
	M285x6	4g6g	284.920	284.320	281.023	280.823	278.425
	M285x4	6g	284.940	284.465	282.342	282.062	280.610

	M285x4	4g6g	284.940	284.465	282.342	282.162	280.610
	M285x3	6g	284.952	284.577	283.003	282.753	281.704
	M285x3	4g6g	284.952	284.577	283.003	282.843	281.704
290	M290x6	6g	289.920	289.320	286.023	285.708	283.425
	M290x6	4g6g	289.920	289.320	286.023	285.823	283.425
	M290x4	6g	289.940	289.465	287.342	287.062	285.610
	M290x4	4g6g	289.940	289.465	287.342	287.162	285.610
	M290x3	6g	289.952	289.577	288.003	287.753	286.704
	M290x3	4g6g	289.952	289.577	288.003	287.843	286.704
295	M295x6	6g	294.920	294.320	291.023	290.708	288.425
	M295x6	4g6g	294.920	294.320	291.023	290.823	288.425
	M295x4	6g	294.940	294.465	292.342	292.062	290.610
	M295x4	4g6g	294.940	294.465	292.342	292.162	290.610
	M295x3	6g	294.952	294.577	293.003	292.753	291.704
	M295x3	4g6g	294.952	294.577	293.003	292.843	291.704
300	M300x8	6g	299.900	299.190	294.704	294.349	291.240
	M300x8	4g6g	299.900	299.190	294.704	294.480	291.240
	M300x6	6g	299.920	299.320	296.023	295.708	293.425
	M300x6	4g6g	299.920	299.320	296.023	295.823	293.425
	M300x4	6g	299.940	299.465	297.342	297.062	295.610
	M300x4	4g6g	299.940	299.465	297.342	297.162	295.610
	M300x3	6g	299.952	299.577	298.003	297.753	296.704
	M300x3	4g6g	299.952	299.577	298.003	297.843	296.704
310	M310x6	6g	309.920	309.320	306.023	305.708	303.425
	M310x6	4g6g	309.920	309.320	306.023	305.823	303.425
	M310x4	6g	309.940	309.465	307.342	307.062	305.610
	M310x4	4g6g	309.940	309.465	307.342	307.162	305.610
320	M320x6	6g	319.920	319.320	316.023	315.708	313.425
	M320x6	4g6g	319.920	319.320	316.023	315.823	313.425
	M320x4	6g	319.940	319.465	317.342	317.062	315.610
	M320x4	4g6g	319.940	319.465	317.342	317.162	315.610
330	M330x6	6g	329.920	329.320	326.023	325.708	323.425
	M330x6	4g6g	329.920	329.320	326.023	325.823	323.425
	M330x4	6g	329.940	329.465	327.342	327.062	325.610
	M330x4	4g6g	329.940	329.465	327.342	327.162	325.610
340	M330x6	6g	339.920	339.320	336.023	335.708	333.425
	M340x6	4g6g	339.920	339.320	336.023	335.823	333.425
	M340x4	6g	339.940	339.465	337.342	337.062	335.610
	M340x4	4g6g	339.940	339.465	337.342	337.162	335.610
350	M350x6	6g	349.920	349.320	346.023	345.708	343.425
	M350x6	4g6g	349.920	349.320	346.023	345.823	343.425
	M350x4	6g	349.940	349.465	347.342	347.062	345.610
	M350x4	4g6g	349.940	349.465	347.342	347.162	345.610
360	M360x6	6g	359.920	359.320	356.023	355.668	353.425
	M360x6	4g6g	359.920	359.320	356.023	355.799	353.425
	M360x4	6g	359.940	359.465	357.342	357.042	355.610
	M360x4	4g6g	359.940	359.465	357.342	357.152	355.610
370	M370x6	6g	369.920	369.320	366.023	365.668	363.425
	M370x6	4g6g	369.920	369.320	366.023	365.799	363.425
	M370x4	6g	369.940	369.465	367.342	367.042	365.610
	M370x4	4g6g	369.940	369.465	367.342	367.152	365.610
380	M380x6	6g	379.920	379.320	376.023	375.668	373.425
	M380x6	4g6g	379.920	379.320	376.023	375.799	373.425
	M380x4	6g	379.940	379.465	377.342	377.042	375.610
	M380x4	4g6g	379.940	379.465	377.342	377.152	375.610
390	M390x6	6g	389.920	389.320	386.023	385.668	383.425

	M390x6	4g6g	389.920	389.320	386.023	385.799	383.425
	M390x4	6g	389.940	389.465	387.342	387.042	385.610
	M390x4	4g6g	389.940	389.465	387.342	387.152	385.610
400	M400x6	6g	399.920	399.320	396.023	395.668	393.425
	M400x6	4g6g	399.920	399.320	396.023	395.799	393.425
	M400x4	6g	399.940	399.465	397.342	397.042	395.610
	M400x4	4g6g	399.940	399.465	397.342	397.152	395.610
410	M410x6	6g	409.920	409.320	406.023	405.668	403.425
	M410x6	4g6g	409.920	409.320	406.023	405.799	403.425
420	M420x6	6g	419.920	419.320	416.023	415.668	413.425
	M420x6	4g6g	419.920	419.320	416.023	415.799	413.425
430	M430x6	6g	429.920	429.320	426.023	425.668	423.425
	M430x6	4g6g	429.920	429.320	426.023	425.799	423.425
440	M440x6	6g	439.920	439.320	436.023	435.668	433.425
	M440x6	4g6g	439.920	439.320	436.023	435.799	433.425
450	M450x6	6g	449.920	449.320	446.023	445.668	443.425
	M450x6	4g6g	449.920	449.320	446.023	445.799	443.425
460	M460x6	6g	459.920	459.320	456.023	455.668	453.425
	M460x6	4g6g	459.920	459.320	456.023	455.799	453.425
470	M470x6	6g	469.920	469.320	466.023	465.668	463.425
	M470x6	4g6g	469.920	469.320	466.023	465.799	463.425
480	M480x6	6g	479.920	479.320	476.023	475.668	473.425
	M480x6	4g6g	479.920	479.320	476.023	475.799	473.425
490	M490x6	6g	489.920	489.320	486.023	485.668	483.425
	M490x6	4g6g	489.920	489.320	486.023	485.799	483.425
500	M500x6	6g	499.920	499.320	496.023	495.668	493.425
	M500x6	4g6g	499.920	499.320	496.023	495.799	493.425
510	M510x6	6g	509.920	509.320	506.023	505.668	503.425
	M510x6	4g6g	509.920	509.320	506.023	505.799	503.425
520	M520x6	6g	519.920	519.320	516.023	515.668	513.425
	M520x6	4g6g	519.920	519.320	516.023	515.799	513.425
530	M530x6	6g	529.920	529.320	526.023	525.668	523.425
	M530x6	4g6g	529.920	529.320	526.023	525.799	523.425
540	M540x6	6g	539.920	539.320	536.023	535.668	533.425
	M540x6	4g6g	539.920	539.320	536.023	535.799	533.425
550	M550x6	6g	549.920	549.320	546.023	545.668	543.425
	M550x6	4g6g	549.920	549.320	546.023	545.799	543.425
560	M560x6	6g	559.920	559.320	556.023	555.668	553.425
	M560x6	4g6g	559.920	559.320	556.023	555.799	553.425
570	M570x6	6g	569.920	569.320	566.023	565.668	563.425
	M570x6	4g6g	569.920	569.320	566.023	565.799	563.425
580	M580x6	6g	579.920	579.320	576.023	575.668	573.425
	M580x6	4g6g	579.920	579.320	576.023	575.799	573.425
590	M590x6	6g	589.920	589.320	586.023	585.668	583.425
	M590x6	4g6g	589.920	589.320	586.023	585.799	583.425
600	M600x6	6g	599.920	599.320	596.023	595.668	593.425
	M600x6	4g6g	599.920	599.320	596.023	595.799	593.425
1060	M1060x8	6g	1059.900	1059.190	1054.704	1054.279	1051.240
	M1060x8	4g6g	1059.900	1059.190	1054.704	1054.439	1051.240

r Dia <i>Min</i>	Internal							
	Class	Minor Dia		Pitch Dia		Major Dia		
		<i>Min</i>	<i>Max</i>	<i>Min</i>	<i>Max</i>	<i>Min</i>	<i>Max</i>	
0.140	6H	0.172	0.208	0.201	0.215	0.255	0.276	
0.152								
0.183	6H	0.217	0.254	0.248	0.262	0.306	0.327	
0.195								
0.170	6H	0.206	0.247	0.242	0.257	0.306	0.330	
0.183								
0.220	6H	0.256	0.297	0.292	0.307	0.356	0.380	
0.233								
0.256	6H	0.296	0.340	0.335	0.351	0.407	0.432	
0.270								
0.306	6H	0.346	0.390	0.385	0.401	0.457	0.482	
0.320								
0.322	6H	0.370	0.422	0.419	0.437	0.509	0.538	
0.339								
0.372	6H	0.420	0.472	0.469	0.487	0.559	0.588	
0.389								
0.388	6H	0.444	0.504	0.503	0.523	0.611	0.644	
0.407								
0.454	6H	0.518	0.586	0.586	0.608	0.713	0.750	
0.476								
0.520	6H	0.592	0.668	0.670	0.694	0.814	0.856	
0.545								
0.586	6H	0.666	0.750	0.754	0.780	0.916	0.962	
0.614								
0.613	6H	0.729	0.809	0.838	0.909	1.000	1.107	
0.633								
0.682	6H	0.783	0.858	0.870	0.933	1.000	1.092	
0.700								
0.713	6H	0.829	0.909	0.938	1.009	1.100	1.207	
0.734								
0.782	6H	0.883	0.958	0.970	1.033	1.100	1.192	
0.800								
0.813	6H	0.929	1.009	1.038	1.109	1.200	1.307	
0.833								
0.882	6H	0.983	1.058	1.070	1.133	1.200	1.292	
0.900								
1.070	6H	1.183	1.258	1.270	1.350	1.400	1.509	
1.092								
1.082	6H	1.183	1.258	1.270	1.333	1.400	1.492	
1.100								
1.075	6H	1.221	1.321	1.373	1.458	1.600	1.736	
1.098								
1.157	6H	1.275	1.360	1.405	1.465	1.600	1.703	
1.174								
1.280	6H	1.3834936	1.4584936	1.4700962	1.5370962	1.6	1.6958676	
1.298								
1.175	6H	1.321	1.421	1.473	1.558	1.700	1.836	
1.198								
1.275	6H	1.421	1.521	1.573	1.658	1.800	1.936	
1.298								
1.480	6H	1.583	1.658	1.670	1.737	1.800	1.896	
1.498								

1.408		6H	1.567	1.679	1.740	1.830	2.000	2.148
1.433								
1.610		6H	1.729	1.809	1.838	1.913	2.000	2.111
1.630								
1.540		6H	1.713	1.838	1.908	2.003	2.200	2.360
1.566								
1.810		6H	1.929	2.009	2.038	2.113	2.200	2.311
1.830								
1.640		6H	1.813	1.938	2.008	2.103	2.300	2.460
1.666								
1.708		6H	1.867	1.979	2.040	2.130	2.300	2.448
1.733								
1.840		6H	2.013	2.138	2.208	2.303	2.500	2.660
1.866								
1.975		6H	2.121	2.221	2.273	2.358	2.500	2.636
1.998								
1.940		6H	2.113	2.238	2.308	2.393	2.600	2.750
1.966								
2.272		6H	2.459	2.599	2.675	2.775	3.000	3.172
2.299								
2.471		6H	2.621	2.721	2.773	2.863	3.000	3.141
2.496								
2.635		6H	2.850	3.010	3.110	3.222	3.500	3.699
2.667								
2.971		6H	3.121	3.221	3.273	3.363	3.500	3.641
2.996								
3.002		6H	3.242	3.422	3.545	3.663	4.000	4.219
3.036								
3.272		6H	3.459	3.599	3.675	3.775	4.000	4.172
3.299								
3.439		6H	3.688	3.878	4.013	4.131	4.500	4.726
3.473								
3.772		6H	3.959	4.099	4.175	4.275	4.500	4.672
3.799								
3.869		6H	4.134	4.334	4.480	4.605	5.000	5.240
3.904								
4.272		6H	4.459	4.599	4.675	4.775	5.000	5.172
4.299								
4.757		6H	4.959	5.099	5.175	5.295	5.500	5.692
4.791								
4.596		6H	4.917	5.153	5.350	5.500	6.000	6.294
4.637								
4.884		6H	5.134	5.334	5.480	5.586	6.000	6.221
4.914								
4.929		6H	5.188	5.378	5.513	5.645	6.000	6.240
4.966								
4.997		6H	5.242	5.422	5.545	5.671	6.000	6.226
5.032								
5.262		6H	5.459	5.599	5.675	5.787	6.000	6.184
5.294								
5.596		6H	5.917	6.153	6.350	6.500	7.000	7.294
5.637								
5.929		6H	6.188	6.378	6.513	6.645	7.000	7.240
5.966								
6.262		6H	6.459	6.599	6.675	6.787	7.000	7.184
6.294								

6.272	6H	6.647	6.912	7.188	7.348	8.000	8.340
6.315							
6.596	6H	6.917	7.153	7.350	7.500	8.000	8.294
6.637							
6.858	6H	7.134	7.334	7.480	7.620	8.000	8.255
6.897							
6.929	6H	7.188	7.378	7.513	7.645	8.000	8.240
6.966							
7.262	6H	7.459	7.599	7.675	7.787	8.000	8.184
7.294							
7.272	6H	7.647	7.912	8.188	8.348	9.000	9.340
7.315							
7.596	6H	7.917	8.153	8.350	8.498	9.000	9.292
7.637							
7.929	6H	8.188	8.378	8.513	8.645	9.000	9.240
7.966							
8.262	6H	8.459	8.599	8.675	8.787	9.000	9.184
8.294							
7.938	6H	8.376	8.676	9.026	9.206	10.000	10.396
7.985							
8.272	6H	8.647	8.912	9.188	9.348	10.000	10.340
8.315							
8.438	6H	8.788	9.038	9.273	9.433	10.000	10.322
8.481							
8.596	6H	8.917	9.153	9.350	9.500	10.000	10.294
8.637							
8.929	6H	9.188	9.378	9.513	9.645	10.000	10.240
8.966							
9.262	6H	9.459	9.599	9.675	9.787	10.000	10.184
9.294							
8.938	6H	9.376	9.676	10.026	10.196	11.000	11.387
8.987							
9.596	6H	9.917	10.153	10.350	10.500	11.000	11.294
9.637							
9.929	6H	10.188	10.378	10.513	10.645	11.000	11.240
9.966							
10.262	6H	10.459	10.599	10.675	10.787	11.000	11.184
10.294							
9.601	6H	10.106	10.441	10.863	11.063	12.000	12.453
9.656							
9.930	6H	10.376	10.676	11.026	11.216	12.000	12.406
10.258	6H	10.647	10.912	11.188	11.368	12.000	12.360
10.305							
10.590	6H	10.917	11.153	11.350	11.510	12.000	12.304
10.633							
10.923	6H	11.188	11.378	11.513	11.653	12.000	12.248
10.962							
11.257	6H	11.459	11.599	11.675	11.795	12.000	12.192
11.290							
11.271	6H	11.835	12.210	12.701	12.913	14.000	14.501
11.331							
11.930	6H	12.376	12.676	13.026	13.216	14.000	14.406
11.980							
12.258	6H	12.647	12.912	13.188	13.358	14.000	14.350
12.305							
12.590	6H	12.917	13.153	13.350	13.510	14.000	14.304

12.634								
12.923	6H	13.188	13.378	13.513	13.653	14.000	14.248	
12.962								
13.257	6H	13.459	13.599	13.675	13.795	14.000	14.192	
13.290								
12.930	6H	13.376	13.676	14.026	14.216	15.000	15.407	
12.980								
13.590	6H	13.917	14.153	14.350	14.510	15.000	15.304	
13.633								
13.271	6H	13.835	14.210	14.701	14.913	16.000	16.501	
13.331								
13.838	6H	14.268	14.568	14.961	15.101	16.000	16.371	
13.877								
13.930	6H	14.376	14.676	15.026	15.216	16.000	16.406	
13.980								
14.258	6H	14.647	14.912	15.188	15.358	16.000	16.350	
14.305								
14.590	6H	14.917	15.153	15.350	15.510	16.000	16.304	
14.633								
14.923	6H	15.188	15.378	15.513	15.653	16.000	16.248	
14.962								
15.257	6H	15.459	15.599	15.675	15.795	16.000	16.192	
15.291								
14.930	6H	15.376	15.676	16.026	16.216	17.000	17.407	
14.980								
15.590	6H	15.917	16.153	16.350	16.510	17.000	17.304	
15.633								
14.624	6H	15.294	15.744	16.376	16.601	18.000	18.585	
14.688								
15.271	6H	15.835	16.210	16.701	16.913	18.000	18.501	
15.331								
15.930	6H	16.376	16.676	17.026	17.216	18.000	18.406	
15.980								
16.258	6H	16.647	16.912	17.188	17.358	18.000	18.350	
16.305								
16.590	6H	16.917	17.153	17.350	17.510	18.000	18.304	
16.633								
16.923	6H	17.188	17.378	17.513	17.653	18.000	18.248	
16.962								
17.257	6H	17.459	17.599	17.675	17.795	18.000	18.192	
17.291								
16.624	6H	17.294	17.744	18.376	18.600	20.000	20.585	
16.688								
17.271	6H	17.835	18.210	18.701	18.913	20.000	20.501	
17.330								
17.930	6H	18.376	18.676	19.026	19.216	20.000	20.406	
17.980								
18.590	6H	18.917	19.153	19.350	19.510	20.000	20.304	
18.633								
18.923	6H	19.188	19.378	19.513	19.653	20.000	20.248	
18.962								
19.257	6H	19.459	19.599	19.675	19.795	20.000	20.192	
19.291								
17.970	6H	18.752	19.252	20.051	20.296	22.000	22.677	
18.037								
18.624	6H	19.294	19.744	20.376	20.600	22.000	22.585	

18.694								
19.271	6H	19.835	20.210	20.701	20.913	22.000	22.501	
19.331								
19.930	6H	20.376	20.676	21.026	21.216	22.000	22.406	
19.980								
20.590	6H	20.917	21.153	21.350	21.510	22.000	22.304	
20.633								
20.923	6H	21.188	21.378	21.513	21.653	22.000	22.248	
20.962								
21.257	6H	21.459	21.599	21.675	21.795	22.000	22.192	
21.290								
19.955	6H	20.752	21.252	22.051	22.316	24.000	24.698	
20.030								
20.604	6H	21.294	21.744	22.376	22.626	24.000	24.611	
20.674								
21.261	6H	21.835	22.210	22.701	22.925	24.000	24.513	
21.325								
21.920	6H	22.376	22.676	23.026	23.226	24.000	24.417	
21.975								
22.583	6H	22.917	23.153	23.350	23.520	24.000	24.314	
22.628								
22.917	6H	23.188	23.378	23.513	23.663	24.000	24.258	
22.958								
22.261	6H	22.835	23.210	23.701	23.925	25.000	25.513	
22.325								
22.920	6H	23.376	23.676	24.026	24.226	25.000	25.416	
22.975								
23.583	6H	23.917	24.153	24.350	24.520	25.000	25.314	
23.628								
23.920	6H	24.376	24.676	25.026	25.226	26.000	26.417	
23.975								
22.955	6H	23.752	24.252	25.051	25.316	27.000	27.698	
23.030								
24.261	6H	24.835	25.210	25.701	25.925	27.000	27.513	
24.325								
24.920	6H	25.376	25.676	26.026	26.226	27.000	27.417	
24.975								
25.583	6H	25.917	26.153	26.350	26.520	27.000	27.314	
25.628								
25.917	6H	26.188	26.378	26.513	26.663	27.000	27.258	
25.958								
25.261	6H	25.835	26.210	26.701	26.925	28.000	28.513	
25.325								
25.920	6H	26.376	26.676	27.026	27.226	28.000	28.417	
25.975								
26.583	6H	26.917	27.153	27.350	27.520	28.000	28.314	
26.628								
25.306	6H	26.211	26.771	27.727	28.007	30.000	30.785	
25.386								
25.955	6H	26.752	27.252	28.051	28.316	30.000	30.698	
26.030								
26.604	6H	27.294	27.744	28.376	28.626	30.000	30.611	
26.674								
27.261	6H	27.835	28.210	28.701	28.925	30.000	30.513	
27.325								
27.920	6H	28.376	28.676	29.026	29.226	30.000	30.416	

27.975								
28.583	6H	28.917	29.153	29.350	29.520	30.000	30.314	
28.628								
28.917	6H	29.188	29.378	29.513	29.663	30.000	30.258	
28.958								
29.261	6H	29.835	30.210	30.701	30.925	32.000	32.513	
29.325								
29.920	6H	30.376	30.676	31.026	31.226	32.000	32.417	
29.975								
28.327	6H	29.211	29.771	30.727	31.007	33.000	33.785	
28.407								
28.955	6H	29.752	30.252	31.051	31.316	33.000	33.698	
29.030								
30.261	6H	30.835	31.210	31.701	31.925	33.000	33.513	
30.325								
30.920	6H	31.376	31.676	32.026	32.226	33.000	33.417	
30.975								
31.583	6H	31.917	32.153	32.350	32.520	33.000	33.314	
31.628								
31.917	6H	32.188	32.378	32.513	32.663	33.000	33.258	
31.958								
33.920	6H	33.376	33.676	34.026	34.226	35.000	35.416	
32.975								
30.654	6H	31.670	32.270	33.402	33.702	36.000	36.877	
30.738								
31.955	6H	32.752	33.252	34.051	34.316	36.000	36.698	
32.030								
33.261	6H	33.835	34.210	34.701	34.925	36.000	36.513	
33.325								
33.920	6H	34.376	34.676	35.026	35.226	36.000	36.417	
33.975								
34.583	6H	34.917	35.153	35.350	35.520	36.000	36.314	
34.628								
35.920	6H	36.376	36.676	37.026	37.226	38.000	38.417	
35.975								
33.654	6H	34.670	35.270	36.402	36.702	39.000	39.877	
33.738								
34.955	6H	35.752	36.252	37.051	37.316	39.000	39.698	
35.030								
36.261	6H	36.835	37.210	37.701	37.925	39.000	39.513	
36.325								
36.920	6H	37.376	37.676	38.026	38.226	39.000	39.417	
36.975								
37.583	6H	37.917	38.153	38.350	38.520	39.000	39.314	
37.628								
35.955	6H	36.752	37.252	38.051	38.316	40.000	40.698	
36.030								
36.604	6H	37.294	37.744	38.376	38.626	40.000	40.611	
36.674								
37.261	6H	37.835	38.210	38.701	38.925	40.000	40.513	
37.325								
37.920	6H	38.376	38.676	39.026	39.226	40.000	40.416	
37.975								
36.006	6H	37.129	37.799	39.077	39.392	42.000	42.965	
36.092								
36.654	6H	37.670	38.270	39.402	39.702	42.000	42.877	

36.738								
37.955	6H	38.752	39.252	40.051	40.316	42.000	42.698	
38.030								
39.261	6H	39.835	40.210	40.701	40.925	42.000	42.513	
39.325								
39.920	6H	40.376	40.676	41.026	41.226	42.000	42.417	
39.975								
40.583	6H	40.917	41.153	41.350	41.520	42.000	42.314	
40.628								
39.006	6H	40.129	40.799	42.077	42.392	45.000	45.965	
39.092								
39.654	6H	40.670	41.270	42.402	42.702	45.000	45.877	
39.738								
40.955	6H	41.752	42.252	43.051	43.316	45.000	45.698	
41.030								
42.261	6H	42.835	43.210	43.701	43.925	45.000	45.513	
42.325								
42.920	6H	43.376	43.676	44.026	44.226	45.000	45.416	
42.975								
43.583	6H	43.917	44.153	44.350	44.520	45.000	45.314	
43.628								
41.351	6H	42.587	43.297	44.752	45.087	48.000	49.057	
41.441								
42.642	6H	43.670	44.270	45.402	45.717	48.000	48.892	
42.728								
43.943	6H	44.752	45.252	46.051	46.331	48.000	48.713	
44.023								
45.251	6H	45.835	46.210	46.701	46.937	48.000	48.525	
45.319								
45.910	6H	46.376	46.676	47.026	47.238	48.000	48.429	
45.970								
44.642	6H	45.670	46.270	47.402	47.717	50.000	50.892	
44.728								
45.943	6H	46.752	47.252	48.051	48.331	50.000	50.713	
46.023								
47.251	6H	47.835	48.210	48.701	48.937	50.000	50.525	
47.319								
47.910	6H	48.376	48.676	49.026	49.238	50.000	50.428	
47.970								
45.365	6H	46.587	47.297	48.752	49.067	52.000	53.037	
45.451								
46.642	6H	47.670	48.270	49.402	49.717	52.000	52.892	
46.728								
47.943	6H	48.752	49.252	50.051	50.331	52.000	52.713	
48.023								
49.251	6H	49.835	50.210	50.701	50.937	52.000	52.525	
49.319								
49.910	6H	50.376	50.676	51.026	51.238	52.000	52.429	
49.970								
49.642	6H	50.670	51.270	52.402	52.717	55.000	55.892	
49.728								
50.943	6H	51.752	52.252	53.051	53.331	55.000	55.713	
51.023								
52.251	6H	52.835	53.210	53.701	53.937	55.000	55.525	
52.319								
52.910	6H	53.376	53.676	54.026	54.238	55.000	55.428	

52.970								
47.389	6H	48.964	49.814	51.778	52.178	56.000	57.338	
47.499								
48.700	6H	50.046	50.796	52.428	52.783	56.000	57.149	
48.795								
50.642	6H	51.670	52.270	53.402	53.717	56.000	56.892	
50.728								
51.943	6H	52.752	53.252	54.051	54.331	56.000	56.713	
52.023								
53.251	6H	53.835	54.210	54.701	54.937	56.000	56.525	
53.319								
53.910	6H	54.376	54.676	55.026	55.238	56.000	56.429	
53.970								
54.568	6H	54.917	55.153	55.350	55.540	56.000	56.334	
54.618								
52.642	6H	53.670	54.270	55.402	55.717	58.000	58.892	
52.728								
53.943	6H	54.752	55.252	56.051	56.331	58.000	58.713	
54.023								
55.251	6H	55.835	56.210	56.701	56.937	58.000	58.525	
55.319								
55.910	6H	56.376	56.676	57.026	57.238	58.000	58.429	
55.970								
52.700	6H	54.046	54.796	56.428	56.783	60.000	61.149	
52.795								
54.642	6H	55.670	56.270	57.402	57.717	60.000	60.892	
54.728								
55.943	6H	56.752	57.252	58.051	58.331	60.000	60.713	
56.023								
57.251	6H	57.835	58.210	58.701	58.937	60.000	60.525	
57.319								
57.910	6H	58.376	58.676	59.026	59.238	60.000	60.428	
57.970								
58.568	6H	58.917	59.153	59.350	59.540	60.000	60.334	
58.618								
56.642	6H	57.670	58.270	59.402	59.717	62.000	62.892	
56.728								
57.943	6H	58.752	59.252	60.051	60.331	62.000	62.713	
58.023								
59.251	6H	59.835	60.210	60.701	60.937	62.000	62.525	
59.319								
59.910	6H	60.376	60.676	61.026	61.238	62.000	62.429	
59.970								
60.910	6H	61.376	61.676	62.026	62.238	63.000	63.429	
60.970								
56.047	6H	57.505	58.305	60.103	60.478	64.000	65.241	
56.147								
56.700	6H	58.046	58.796	60.428	60.783	64.000	65.149	
56.795								
58.642	6H	59.670	60.270	61.402	61.717	64.000	64.892	
58.728								
59.943	6H	60.752	61.252	62.051	62.331	64.000	64.713	
60.023								
61.251	6H	61.835	62.210	62.701	62.937	64.000	64.525	
61.319								
61.910	6H	62.376	62.676	63.026	63.238	64.000	64.429	

61.970								
62.568	6H	62.917	63.153	63.350	63.540	64.000	64.334	
62.618								
59.642	6H	60.670	61.270	62.402	62.717	65.000	65.892	
59.728								
60.943	6H	61.752	62.252	63.051	63.331	65.000	65.713	
61.023								
62.251	6H	62.835	63.210	63.701	63.937	65.000	65.525	
62.319								
62.910	6H	63.376	63.676	64.026	64.238	65.000	65.428	
62.970								
60.047	6H	61.505	62.305	64.103	64.478	68.000	69.241	
60.147								
62.642	6H	63.670	64.270	65.402	65.717	68.000	68.892	
62.728								
63.943	6H	64.752	65.252	66.051	66.331	68.000	68.713	
64.023								
65.251	6H	65.835	66.210	66.701	66.937	68.000	68.525	
65.319								
65.910	6H	66.376	66.676	67.026	67.238	68.000	68.429	
65.970								
66.568	6H	66.917	67.153	67.350	67.540	68.000	68.334	
66.618								
62.047	6H	63.505	64.305	66.103	66.478	70.000	71.241	
62.147								
64.642	6H	65.670	66.270	67.402	67.717	70.000	70.892	
64.728								
65.943	6H	66.752	67.252	68.051	68.331	70.000	70.713	
66.023								
67.251	6H	67.835	68.210	68.701	68.937	70.000	70.525	
67.319								
67.910	6H	68.376	68.676	69.026	69.238	70.000	70.428	
67.970								
64.047	6H	65.505	66.305	68.103	68.478	72.000	73.241	
64.147								
66.642	6H	67.670	68.270	69.402	69.717	72.000	72.892	
66.728								
67.943	6H	68.752	69.252	70.051	70.331	72.000	72.713	
68.023								
69.251	6H	69.835	70.210	70.701	70.937	72.000	72.525	
69.319								
69.910	6H	70.376	70.676	71.026	71.238	72.000	72.429	
69.970								
70.568	6H	70.917	71.153	71.350	71.540	72.000	72.334	
70.618								
67.047	6H	68.505	69.305	71.103	71.478	75.000	76.241	
67.147								
69.642	6H	70.670	71.270	72.402	72.717	75.000	75.892	
69.728								
70.943	6H	71.752	72.252	73.051	73.331	75.000	75.713	
71.023								
72.251	6H	72.835	73.210	73.701	73.937	75.000	75.525	
72.319								
72.910	6H	73.376	73.676	74.026	74.238	75.000	75.428	
72.970								
68.047	6H	69.505	70.305	72.103	72.478	76.000	77.241	

68.147								
70.642	6H	71.670	72.270	73.402	73.717	76.000	76.892	
70.728								
71.943	6H	72.752	73.252	74.051	74.331	76.000	76.713	
72.023								
73.251	6H	73.835	74.210	74.701	74.937	76.000	76.525	
73.319								
73.910	6H	74.376	74.676	75.026	75.238	76.000	76.429	
73.970								
74.568	6H	74.917	75.153	75.350	75.540	76.000	76.334	
74.618								
75.251	6H	75.835	76.210	76.701	76.937	78.000	78.525	
75.319								
72.047	6H	73.505	74.305	76.103	76.478	80.000	81.241	
72.147								
74.642	6H	75.670	76.270	77.402	77.717	80.000	80.892	
74.728								
75.943	6H	76.752	77.252	78.051	78.331	80.000	80.713	
76.023								
77.251	6H	77.835	78.210	78.701	78.937	80.000	80.525	
77.319								
77.910	6H	78.376	78.676	79.026	79.238	80.000	80.428	
77.970								
78.568	6H	78.917	79.153	79.350	79.540	80.000	80.334	
78.618								
79.251	6H	79.835	80.210	80.701	80.937	82.000	82.525	
79.319								
77.047	6H	78.505	79.305	81.103	81.478	85.000	86.241	
77.147								
79.642	6H	80.670	81.270	82.402	82.717	85.000	85.892	
79.728								
80.943	6H	81.752	82.252	83.051	83.331	85.000	85.713	
81.023								
82.251	6H	82.835	83.210	83.701	83.937	85.000	85.525	
82.319								
82.910	6H	83.376	83.676	84.026	84.238	85.000	85.429	
82.970								
82.047	6H	83.505	84.305	86.103	86.478	90.000	91.241	
82.147								
84.642	6H	85.670	86.270	87.402	87.717	90.000	90.892	
84.728								
85.943	6H	86.752	87.252	88.051	88.331	90.000	90.713	
86.023								
87.251	6H	87.835	88.210	88.701	88.937	90.000	90.525	
87.319								
87.910	6H	88.376	88.676	89.026	89.238	90.000	90.429	
87.970								
87.027	6H	88.505	89.305	91.103	91.503	95.000	96.266	
87.137								
89.628	6H	90.670	91.270	92.402	92.737	95.000	95.912	
89.718								
90.931	6H	91.752	92.252	93.051	93.351	95.000	95.733	
91.015								
92.241	6H	92.835	93.210	93.701	93.951	95.000	95.539	
92.313								
92.890	6H	93.376	93.676	94.026	94.262	95.000	95.453	

92.958								
92.027	6H	93.505	94.305	96.103	96.503	100.000	101.266	
92.137								
94.628	6H	95.670	96.270	97.402	97.737	100.000	100.912	
94.718								
95.931	6H	96.752	97.252	98.051	98.351	100.000	100.733	
96.015								
97.241	6H	97.835	98.210	98.701	98.951	100.000	100.539	
97.313								
97.890	6H	98.376	98.676	99.026	99.262	100.000	100.453	
97.958								
97.027	6H	98.505	99.305	101.103	101.503	105.000	106.266	
97.137								
99.628	6H	100.670	101.270	102.402	102.737	105.000	105.912	
99.718								
100.931	6H	101.752	102.252	103.051	103.351	105.000	105.733	
101.015								
102.241	6H	102.835	103.210	103.701	103.951	105.000	105.539	
102.313								
102.890	6H	103.376	103.676	104.026	104.262	105.000	105.453	
102.958								
102.027	6H	103.505	104.305	106.103	106.503	110.000	111.266	
102.137								
104.628	6H	105.670	106.270	107.402	107.737	110.000	110.912	
104.718								
105.931	6H	106.752	107.252	108.051	108.351	110.000	110.733	
106.015								
107.241	6H	107.835	108.210	108.701	108.951	110.000	110.539	
107.313								
107.890	6H	108.376	108.676	109.026	109.262	110.000	110.453	
107.958								
107.027	6H	108.505	109.305	111.103	111.503	115.000	116.266	
107.137								
109.628	6H	110.670	111.270	112.402	112.737	115.000	115.912	
109.718								
110.931	6H	111.752	112.252	113.051	113.351	115.000	115.733	
111.015								
112.241	6H	112.835	113.210	113.701	113.951	115.000	115.539	
112.311								
112.890	6H	113.376	113.676	114.026	114.262	115.000	115.453	
112.958								
112.027	6H	113.505	114.305	116.103	116.503	120.000	121.266	
112.137								
114.628	6H	115.670	116.270	117.402	117.737	120.000	120.912	
114.718								
115.931	6H	116.752	117.252	118.051	118.351	120.000	120.733	
116.015								
117.241	6H	117.835	118.210	118.701	118.951	120.000	120.539	
117.313								
117.890	6H	118.376	118.676	119.026	119.262	120.000	120.453	
117.958								
114.441	6H	116.340	117.340	119.804	120.254	125.000	126.605	
114.564								
117.027	6H	118.505	119.305	121.103	121.503	125.000	126.266	
117.137								
119.628	6H	120.670	121.270	122.402	122.737	125.000	125.912	

119.718								
120.931	6H	121.752	122.252	123.051	123.351	125.000	125.733	
121.015								
122.241	6H	122.835	123.210	123.701	123.951	125.000	125.539	
122.311								
122.890	6H	123.376	123.676	124.026	124.262	125.000	125.453	
122.958								
119.441	6H	121.340	122.340	124.804	125.254	130.000	131.605	
119.564								
122.027	6H	123.505	124.305	126.103	126.503	130.000	131.266	
122.137								
124.628	6H	125.670	126.270	127.402	127.737	130.000	130.912	
124.718								
125.931	6H	126.752	127.252	128.051	128.351	130.000	130.733	
126.015								
127.241	6H	127.835	128.210	128.701	128.951	130.000	130.539	
137.313								
127.890	6H	128.376	128.676	129.026	129.262	130.000	130.453	
127.958								
127.027	6H	128.505	129.305	131.103	131.503	135.000	136.266	
127.137								
129.628	6H	130.670	131.270	132.402	132.737	135.000	135.912	
129.718								
130.931	6H	131.752	132.252	133.051	133.351	135.000	135.733	
131.015								
132.241	6H	132.835	133.210	133.701	133.951	135.000	135.539	
132.311								
132.890	6H	133.376	133.676	134.026	134.262	135.000	135.453	
132.958								
129.441	6H	131.340	132.340	134.804	135.254	140.000	141.605	
129.564								
132.027	6H	133.505	134.305	136.103	136.503	140.000	141.266	
132.137								
134.628	6H	135.670	136.270	137.402	137.737	140.000	140.912	
134.718								
135.931	6H	136.752	137.252	138.051	138.351	140.000	140.733	
136.015								
137.241	6H	137.835	138.210	138.701	138.951	140.000	140.539	
137.313								
137.890	6H	138.376	138.676	139.026	139.262	140.000	140.453	
137.958								
137.027	6H	138.505	139.305	141.103	141.503	145.000	146.266	
137.137								
139.628	6H	140.670	141.270	142.402	142.737	145.000	145.912	
139.718								
140.931	6H	141.752	142.252	143.051	143.351	145.000	145.733	
141.015								
142.241	6H	142.835	143.210	143.701	143.951	145.000	145.539	
142.311								
142.890	6H	143.376	143.676	144.026	144.262	145.000	145.453	
142.958								
139.441	6H	141.340	142.340	144.804	145.254	150.000	151.605	
139.564								
142.027	6H	143.505	144.305	146.103	146.503	150.000	151.266	
142.137								
144.628	6H	145.670	146.270	147.402	147.737	150.000	150.912	

144.718								
145.931	6H	146.752	147.252	148.051	148.351	150.000	150.733	
146.015								
147.241	6H	147.835	148.210	148.701	148.951	150.000	150.539	
147.313								
147.890	6H	148.376	148.676	149.026	149.262	150.000	150.453	
147.958								
147.027	6H	148.505	149.305	151.103	151.503	155.000	156.266	
147.137								
149.628	6H	150.670	151.270	152.402	152.737	155.000	155.912	
149.718								
150.931	6H	151.752	152.252	153.051	153.351	155.000	155.733	
151.015								
152.241	6H	152.835	153.210	153.701	153.951	155.000	155.539	
152.311								
149.441	6H	151.340	152.340	154.804	155.254	160.000	161.605	
149.564								
152.027	6H	153.505	154.305	156.103	156.503	160.000	161.266	
152.137								
154.628	6H	155.670	156.270	157.402	157.737	160.000	160.912	
154.718								
155.931	6H	156.752	157.252	158.051	158.351	160.000	160.733	
156.015								
157.241	6H	157.835	158.210	158.701	158.951	160.000	160.539	
157.311								
157.027	6H	158.505	159.305	161.103	161.503	165.000	166.266	
157.137								
159.628	6H	160.670	161.270	162.402	162.737	165.000	165.912	
159.718								
160.931	6H	161.752	162.252	163.051	163.351	165.000	165.733	
161.015								
162.241	6H	162.835	163.210	163.701	163.951	165.000	165.539	
162.311								
159.441	6H	161.340	162.340	164.804	165.254	170.000	171.605	
159.564								
162.027	6H	163.505	164.305	166.103	166.503	170.000	171.266	
162.137								
164.628	6H	165.670	166.270	167.402	167.737	170.000	170.912	
164.718								
165.931	6H	166.752	167.252	168.051	168.351	170.000	170.733	
166.015								
167.241	6H	167.835	168.210	168.701	168.951	170.000	170.539	
167.311								
167.027	6H	168.505	169.305	171.103	171.503	175.000	176.266	
167.137								
169.628	6H	170.670	171.270	172.402	172.737	175.000	175.912	
169.718								
170.931	6H	171.752	172.252	173.051	173.351	175.000	175.733	
171.014								
172.241	6H	172.835	173.210	173.701	173.951	175.000	175.539	
172.311								
169.441	6H	171.340	172.340	174.804	175.254	180.000	181.605	
169.564								
172.027	6H	173.505	174.305	176.103	176.503	180.000	181.266	
172.137								
174.628	6H	175.670	176.270	177.402	177.737	180.000	180.912	

174.718								
175.931	6H	176.752	177.252	178.051	178.351	180.000	180.733	
176.015								
177.241	6H	177.835	178.210	178.701	178.951	180.000	180.539	
177.311								
177.012	6H	178.505	179.305	181.103	181.528	185.000	186.291	
177.127								
179.598	6H	180.670	181.270	182.402	182.777	185.000	185.952	
179.698								
180.905	6H	181.752	182.252	183.051	183.386	185.000	185.768	
180.995								
182.219	6H	182.835	183.210	183.701	183.981	185.000	185.569	
182.299								
179.421	6H	181.340	182.340	184.804	185.279	190.000	191.630	
179.552								
182.012	6H	183.505	184.305	186.103	186.528	190.000	191.291	
182.127								
184.598	6H	185.670	186.270	187.402	187.777	190.000	190.952	
184.698								
185.905	6H	186.752	187.252	188.051	188.386	190.000	190.768	
185.995								
187.219	6H	187.835	188.210	188.701	188.981	190.000	190.569	
187.299								
187.012	6H	188.505	189.305	191.103	191.528	195.000	196.291	
187.127								
189.598	6H	190.670	191.270	192.402	192.777	195.000	195.952	
189.698								
190.905	6H	191.752	192.252	193.051	193.386	195.000	195.768	
190.995								
192.219	6H	192.835	193.210	193.701	193.981	195.000	195.569	
192.299								
189.421	6H	191.340	192.340	194.804	195.279	200.000	201.630	
189.552								
192.012	6H	193.505	194.305	196.103	196.528	200.000	201.291	
192.127								
194.598	6H	195.670	196.270	197.402	197.777	200.000	200.952	
194.698								
195.905	6H	196.752	197.252	198.051	198.386	200.000	200.768	
195.995								
197.219	6H	197.835	198.210	198.701	198.981	200.000	200.569	
197.299								
197.012	6H	198.505	199.305	201.103	201.528	205.000	206.291	
197.127								
199.598	6H	200.670	201.270	202.402	202.777	205.000	205.952	
199.698								
200.905	6H	201.752	202.252	203.051	203.386	205.000	205.768	
200.995								
202.219	6H	202.835	203.210	203.701	203.981	205.000	205.569	
202.299								
199.421	6H	201.340	202.340	204.804	205.279	210.000	211.630	
199.552								
202.012	6H	203.505	204.305	206.103	206.528	210.000	211.291	
202.127								
204.598	6H	205.670	206.270	207.402	207.777	210.000	210.952	
204.698								
205.905	6H	206.752	207.252	208.051	208.386	210.000	210.768	

205.995								
207.219	6H	207.835	208.210	208.701	208.981	210.000	210.569	
207.299								
207.012	6H	208.505	209.305	211.103	211.528	215.000	216.291	
207.127								
209.598	6H	210.670	211.270	212.402	212.777	215.000	215.952	
209.698								
210.905	6H	211.752	212.252	213.051	213.386	215.000	215.768	
210.995								
209.421	6H	211.340	212.340	214.804	215.279	220.000	221.630	
209.552								
212.012	6H	213.505	214.305	216.103	216.528	220.000	221.291	
212.127								
214.598	6H	215.670	216.270	217.402	217.777	220.000	220.952	
214.698								
215.905	6H	216.752	217.252	218.051	218.386	220.000	220.768	
215.995								
217.219	6H	217.835	218.210	218.701	218.981	220.000	220.569	
217.299								
217.012	6H	218.505	219.305	221.103	221.528	225.000	226.291	
217.127								
219.598	6H	220.670	221.270	222.402	222.777	225.000	225.952	
219.698								
220.905	6H	221.752	222.252	223.051	223.386	225.000	225.768	
220.995								
222.219	6H	222.835	223.210	223.701	223.981	225.000	225.569	
222.299								
222.012	6H	223.505	224.305	226.103	226.528	230.000	231.291	
222.127								
224.598	6H	225.670	226.270	227.402	227.777	230.000	230.952	
224.698								
225.905	6H	226.752	227.252	228.051	228.386	230.000	230.768	
225.995								
227.219	6H	227.835	228.210	228.701	228.981	230.000	230.569	
227.299								
226.972	6H	228.505	229.305	231.103	231.578	235.000	236.341	
227.103								
229.598	6H	230.670	231.270	232.402	232.777	235.000	235.952	
229.698								
230.905	6H	231.752	232.252	233.051	233.386	235.000	235.768	
230.995								
229.421	6H	231.340	232.340	234.804	235.279	240.000	241.630	
229.552								
232.012	6H	233.505	234.305	236.103	236.528	240.000	241.291	
232.127								
234.598	6H	235.670	236.270	237.402	237.777	240.000	240.952	
234.698								
235.905	6H	236.752	237.252	238.051	238.386	240.000	240.768	
235.995								
237.219	6H	237.835	238.210	238.701	238.981	240.000	240.569	
237.299								
237.012	6H	238.505	239.305	241.103	241.528	245.000	246.291	
237.127								
239.598	6H	240.670	241.270	242.402	242.777	245.000	245.952	
239.698								
240.905	6H	241.752	242.252	243.051	243.386	245.000	245.768	

240.995								
242.219	6H	242.835	243.210	243.701	243.981	245.000	245.569	
242.299								
239.421	6H	241.340	242.340	244.804	245.279	250.000	251.630	
239.552								
242.012	6H	243.505	244.305	246.103	246.528	250.000	251.291	
242.127								
244.598	6H	245.670	246.270	247.402	247.777	250.000	250.952	
244.698								
245.905	6H	246.752	247.252	248.051	248.386	250.000	250.768	
245.995								
247.219	6H	247.835	248.210	248.701	248.981	250.000	250.569	
247.299								
246.972	6H	248.505	249.305	251.103	251.578	255.000	256.341	
247.103								
249.598	6H	250.670	251.270	252.402	252.777	255.000	255.952	
249.698								
250.905	6H	251.752	252.252	253.051	253.386	255.000	255.768	
250.995								
249.421	6H	251.340	252.340	254.804	255.279	260.000	261.630	
249.552								
252.012	6H	253.505	254.305	256.103	256.528	260.000	261.291	
252.127								
254.598	6H	255.670	256.270	257.402	257.777	260.000	260.952	
254.698								
255.905	6H	256.752	257.252	258.051	258.386	260.000	260.768	
255.995								
257.012	6H	258.505	259.305	261.103	261.528	265.000	266.291	
257.127								
259.598	6H	260.670	261.270	262.402	262.777	265.000	265.952	
259.698								
260.905	6H	261.752	262.252	263.051	263.386	265.000	265.768	
260.995								
262.012	6H	263.505	264.305	266.103	266.528	270.000	271.291	
262.127								
264.598	6H	265.670	266.270	267.402	267.777	270.000	270.952	
264.698								
265.905	6H	266.752	267.252	268.051	268.386	270.000	270.768	
265.995								
267.012	6H	268.505	269.305	271.103	271.528	275.000	276.291	
267.127								
269.598	6H	270.670	271.270	272.402	272.777	275.000	275.952	
269.698								
270.905	6H	271.752	272.252	273.051	273.386	275.000	275.768	
270.995								
269.421	6H	271.340	272.340	274.804	275.279	280.000	281.630	
269.552								
272.012	6H	273.505	274.305	276.103	276.528	280.000	281.291	
272.127								
274.598	6H	275.670	276.270	277.402	277.777	280.000	280.952	
274.698								
275.905	6H	276.752	277.252	278.051	278.386	280.000	280.768	
275.995								
277.012	6H	278.505	279.305	281.103	281.528	285.000	286.291	
277.127								
279.598	6H	280.670	281.270	282.402	282.777	285.000	285.952	

279.698								
280.905	6H	281.752	282.252	283.051	283.386	285.000	285.768	
280.995								
282.012	6H	283.505	284.305	286.103	286.528	290.000	291.291	
282.127								
284.598	6H	285.670	286.270	287.402	287.777	290.000	290.952	
284.698								
285.905	6H	286.752	287.252	288.051	288.386	290.000	290.768	
285.995								
287.012	6H	288.505	289.305	291.103	291.528	295.000	296.291	
287.127								
289.598	6H	290.670	291.270	292.402	292.777	295.000	295.952	
289.698								
290.905	6H	291.752	292.252	293.051	293.386	295.000	295.768	
290.995								
289.421	6H	291.340	292.340	294.804	295.279	300.000	301.630	
289.552								
292.012	6H	293.505	294.305	296.103	296.528	300.000	301.291	
292.127								
294.598	6H	295.670	296.270	297.402	297.777	300.000	300.952	
294.698								
295.905	6H	296.752	297.252	298.051	298.386	300.000	300.768	
295.995								
302.012	6H	303.505	304.305	306.103	306.528	310.000	311.291	
302.127								
304.598	6H	305.670	306.270	307.402	307.777	310.000	310.952	
304.698								
312.012	6H	313.505	314.305	316.103	316.528	320.000	321.291	
312.127								
314.598	6H	315.670	316.270	317.402	317.777	320.000	320.952	
314.698								
322.012	6H	323.505	324.305	326.103	326.528	330.000	331.291	
322.127								
324.598	6H	325.670	326.270	327.402	327.777	330.000	330.952	
324.698								
332.012	6H	333.505	334.305	336.103	336.528	340.000	341.291	
332.127								
334.598	6H	335.670	336.270	337.402	337.777	340.000	340.952	
334.698								
342.012	6H	343.505	344.305	346.103	346.528	350.000	351.291	
342.127								
344.598	6H	345.670	346.270	347.402	347.777	350.000	350.952	
344.698								
351.972	6H	353.505	354.305	356.103	356.578	360.000	361.341	
352.103								
354.578	6H	355.670	356.270	357.402	357.802	360.000	360.977	
354.688								
361.972	6H	363.505	364.305	366.103	366.578	370.000	371.341	
362.103								
364.578	6H	365.670	366.270	367.402	367.802	370.000	370.977	
364.688								
371.972	6H	373.505	374.305	376.103	376.578	380.000	381.341	
372.103								
374.578	6H	375.670	376.270	377.402	377.802	380.000	380.977	
374.688								
381.972	6H	383.505	384.305	386.103	386.578	390.000	391.341	

382.103								
384.578	6H	385.670	386.270	387.402	387.802	390.000	390.977	
384.688								
391.972	6H	393.505	394.305	396.103	396.578	400.000	401.341	
392.103								
394.578	6H	395.670	396.270	397.402	397.802	400.000	400.977	
394.688								
401.972	6H	403.505	404.305	406.103	406.578	410.000	411.341	
402.103								
411.972	6H	413.505	414.305	416.103	416.578	420.000	421.341	
412.103								
421.972	6H	423.505	424.305	426.103	426.578	430.000	431.341	
422.103								
431.972	6H	433.505	434.305	436.103	436.578	440.000	441.341	
432.103								
441.972	6H	443.505	444.305	446.103	446.578	450.000	451.341	
442.103								
451.972	6H	453.505	454.305	456.103	456.578	460.000	461.341	
452.103								
461.972	6H	463.505	464.305	466.103	466.578	470.000	471.341	
462.103								
471.972	6H	473.505	474.305	476.103	476.578	480.000	481.341	
472.103								
481.972	6H	483.505	484.305	486.103	486.578	490.000	491.341	
482.103								
491.972	6H	493.505	494.305	496.103	496.578	500.000	501.341	
492.103								
501.972	6H	503.505	504.305	506.103	506.578	510.000	511.341	
502.103								
511.972	6H	513.505	514.305	516.103	516.578	520.000	521.341	
512.103								
521.972	6H	523.505	524.305	526.103	526.578	530.000	531.341	
522.103								
531.972	6H	533.505	534.305	536.103	536.578	540.000	541.341	
532.103								
541.972	6H	543.505	544.305	546.103	546.578	550.000	551.341	
542.103								
551.972	6H	553.505	554.305	556.103	556.578	560.000	561.341	
552.103								
561.972	6H	563.505	564.305	566.103	566.578	570.000	571.341	
562.103								
571.972	6H	573.505	574.305	576.103	576.578	580.000	581.341	
572.103								
581.972	6H	583.505	584.305	586.103	586.578	590.000	591.341	
582.103								
591.972	6H	593.505	594.305	596.103	596.578	600.000	601.341	
592.103								
1049.351	6H	1051.340	1052.340	1054.804	1055.364	1060.000	1061.715	
1049.511								

Tap Drill
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		External						
Size	Thread Design	Class	Major Dia		Pitch Dia		Minor Dia	
			Max	Min	Max	Min	Max	Min
8	TR8x1.5	7e	8.000	7.850	7.183	7.013	6.200	5.921
9	TR9x1.5	7e	9.000	8.850	8.183	8.013	7.200	6.921
	TR9x2	7e	9.000	8.820	7.929	7.739	6.500	6.191
10	TR10x1.5	7e	10.000	9.850	9.183	9.013	8.200	7.921
	TR10x2	7e	10.000	9.820	8.929	8.739	7.500	7.191
11	TR11x2	7e	11.000	10.820	9.929	9.739	8.500	8.191
	TR11x3	7e	11.000	10.764	9.415	9.203	7.500	7.150
12	TR12x2	7e	12.000	11.820	10.929	10.729	9.500	9.179
	TR12x3	7e	12.000	11.764	10.415	10.191	8.500	8.135
14	TR14x2	7e	14.000	13.820	12.929	12.729	11.500	11.179
	TR14x3	7e	14.000	13.764	12.415	12.191	10.500	10.135
16	TR16x2	7e	16.000	15.820	14.929	14.729	13.500	13.179
	TR16x3	7e	16.000	15.764	14.415	14.191	12.500	12.135
	TR16x4	7e	16.000	15.700	13.905	13.640	11.500	11.074
18	TR18x2	7e	18.000	17.820	16.929	16.729	15.500	15.179
	TR18x3	7e	18.000	17.764	16.415	16.191	14.500	14.135
	TR18x4	7e	18.000	17.700	15.905	15.640	13.500	13.074
20	TR20x2	7e	20.000	19.820	18.929	18.729	17.500	17.179
	TR20x3	7e	20.000	19.764	18.415	18.191	16.500	16.135
	TR20x4	7e	20.000	19.700	17.905	17.640	15.500	15.074
22	TR22x3	7e	22.000	21.764	20.415	20.191	18.500	18.135
	TR22x5	7e	22.000	21.665	19.394	19.114	16.500	16.044
	TR22x8	7e	22.000	21.550	17.868	17.513	13.500	12.924
24	TR24x3	7e	24.000	23.764	22.415	22.165	20.500	20.103
	TR24x5	7e	24.000	23.665	21.394	21.094	18.500	18.019
	TR24x8	7e	24.000	23.550	19.868	19.493	15.500	14.899
26	TR26x3	7e	26.000	25.764	24.415	24.165	22.500	22.103
	TR26x5	7e	26.000	25.665	23.394	23.094	20.500	20.019
	TR26x8	7e	26.000	25.550	21.868	21.493	17.500	16.899
28	TR28x3	7e	28.000	27.764	26.415	26.165	24.500	24.103
	TR28x5	7e	28.000	27.665	25.394	25.094	22.500	22.019
	TR28x8	7e	28.000	27.550	23.868	23.493	19.500	18.899
30	TR30x3	7e	30.000	29.764	28.415	28.165	26.500	26.103
	TR30x6	7e	30.000	29.575	26.875	26.540	23.000	22.463
	TR30x10	7e	30.000	29.470	24.850	24.450	19.000	18.350
32	TR32x3	7e	32.000	31.764	30.415	30.165	28.500	28.103
	TR32x6	7e	32.000	31.575	28.875	28.540	25.000	24.463
	TR32x10	7e	32.000	31.470	26.850	26.450	21.000	20.350
34	TR34x3	7e	34.000	33.764	32.415	32.165	30.500	30.103
	TR34x6	7e	34.000	33.575	30.875	30.540	27.000	26.463
	TR34x10	7e	34.000	33.470	28.850	28.450	23.000	22.350
36	TR36x3	7e	36.000	35.764	34.415	34.165	32.500	32.103
	TR36x6	7e	36.000	35.575	32.875	32.540	29.000	28.463
	TR36x10	7e	36.000	35.470	30.850	30.450	25.000	24.350
38	TR38x3	7e	38.000	37.764	36.415	36.165	34.500	34.103
	TR38x7	7e	38.000	37.575	34.375	34.020	30.000	29.431
	TR38x10	7e	38.000	37.470	32.850	32.450	27.000	26.350
40	TR40x3	7e	40.000	39.764	38.415	38.165	36.500	36.103
	TR40x7	7e	40.000	39.575	36.375	36.020	32.000	31.431
	TR40x10	7e	40.000	39.470	34.850	34.450	29.000	28.350
42	TR42x3	7e	42.000	41.764	40.415	40.165	38.500	38.103
	TR42x7	7e	42.000	41.575	38.375	38.020	34.000	33.431

	TR42x10	7e	42.000	41.470	36.850	36.450	31.000	30.350
44	TR44x3	7e	44.000	43.764	42.415	42.165	40.500	40.103
	TR44x7	7e	44.000	43.575	40.375	40.020	36.000	35.431
	TR44x12	7e	44.000	43.400	37.830	37.405	31.000	30.309
46	TR46x3	7e	46.000	45.764	44.415	44.150	42.500	42.084
	TR46x8	7e	46.000	45.550	41.868	41.468	37.000	36.368
	TR46x12	7e	46.000	45.400	39.830	39.355	33.000	32.246
48	TR48x3	7e	48.000	47.764	46.415	46.150	44.500	44.084
	TR48x8	7e	48.000	47.550	43.868	43.468	39.000	38.368
	TR48x12	7e	48.000	47.400	41.830	41.355	35.000	34.246
50	TR50x3	7e	50.000	49.764	48.415	48.150	46.500	46.084
	TR50x8	7e	50.000	49.550	45.868	45.468	41.000	40.368
	TR50x12	7e	50.000	49.400	43.830	43.355	37.000	36.246
52	TR52x3	7e	52.000	51.764	50.415	50.150	48.500	48.084
	TR52x8	7e	52.000	51.550	47.868	47.468	43.000	42.368
	TR52x12	7e	52.000	51.400	45.830	45.355	39.000	38.246
55	TR55x3	7e	55.000	54.764	53.415	53.150	51.500	51.084
	TR55x9	7e	55.000	54.500	50.360	49.935	45.000	44.329
	TR55x14	7e	55.000	54.330	47.820	47.320	39.000	38.195
60	TR60x3	7e	60.000	59.764	58.415	58.150	56.500	56.084
	TR60x9	7e	60.000	59.500	55.360	54.935	50.000	49.329
	TR60x14	7e	60.000	59.330	52.820	52.320	44.000	43.195
65	TR65x4	7e	65.000	64.700	62.905	62.605	60.500	60.030
	TR65x10	7e	65.000	64.470	59.850	59.425	54.000	53.319
	TR65x16	7e	65.000	64.290	56.810	56.280	47.000	46.147
70	TR70x4	7e	70.000	69.700	67.905	67.605	65.500	65.030
	TR70x10	7e	70.000	69.470	64.850	64.425	59.000	58.319
	TR70x16	7e	70.000	69.290	61.810	61.280	52.000	51.147
75	TR75x4	7e	75.000	74.700	72.905	72.605	70.500	70.030
	TR75x10	7e	75.000	74.470	69.850	69.425	64.000	63.319
	TR75x16	7e	75.000	74.290	66.810	66.280	57.000	56.147
80	TR80x4	7e	80.000	79.700	77.905	77.605	75.500	75.030
	TR80x10	7e	80.000	79.470	74.850	74.425	69.000	68.319
	TR80x16	7e	80.000	79.290	71.810	71.280	62.000	61.147
85	TR85x4	7e	85.000	84.700	82.905	82.605	80.500	80.030
	TR85x12	7e	85.000	84.400	78.830	78.355	72.000	71.246
	TR85x18	7e	85.000	84.200	75.800	75.240	65.000	64.100
90	TR90x4	7e	90.000	89.700	87.905	87.605	85.500	85.030
	TR90x12	7e	90.000	89.400	83.830	83.355	77.000	76.246
	TR90x18	7e	90.000	89.200	80.800	80.240	70.000	69.100
95	TR95x4	7e	95.000	94.700	92.905	92.590	90.500	90.011
	TR95x12	7e	95.000	94.400	88.830	88.300	82.000	81.177
	TR95x18	7e	95.000	94.200	85.800	85.200	75.000	74.050
100	TR100x4	7e	100.000	99.700	97.905	97.590	95.500	95.011
	TR100x12	7e	100.000	99.400	93.830	93.300	87.000	86.177
	TR100x20	7e	100.000	99.150	89.788	89.188	78.000	77.038
105	TR105x4	7e	105.000	104.700	102.905	102.590	100.500	100.011
	TR105x12	7e	105.000	104.400	98.830	98.300	92.000	91.177
	TR105x20	7e	105.000	104.150	94.788	94.188	83.000	82.038
110	TR110x4	7e	110.000	109.700	107.905	107.590	105.500	105.011
	TR110x12	7e	110.000	109.400	103.830	103.300	97.000	96.177
	TR110x20	7e	110.000	109.150	99.788	99.188	88.000	87.038
115	TR115x6	7e	115.000	114.575	111.875	111.500	108.000	107.413
	TR115x12	7e	115.000	114.400	108.830	108.330	102.000	101.215
	TR115x14	7e	115.000	114.330	107.820	107.290	99.000	98.157
	TR115x22	7e	115.000	114.100	103.776	103.146	91.000	89.989

120	TR120x6	7e	120.000	119.575	116.875	116.500	113.000	112.413
	TR120x12	7e	120.000	119.400	113.830	113.330	107.000	106.215
	TR120x14	7e	120.000	119.330	112.820	112.290	104.000	103.157
	TR120x22	7e	120.000	119.100	108.776	108.146	96.000	94.989
125	TR125x6	7e	125.000	124.575	121.875	121.500	118.000	117.413
	TR125x12	7e	125.000	124.400	118.830	118.330	112.000	111.215
	TR125x14	7e	125.000	124.330	117.820	117.290	109.000	108.157
	TR125x22	7e	125.000	124.100	113.776	113.146	101.000	99.989
130	TR130x6	7e	130.000	129.575	126.875	126.500	123.000	122.413
	TR130x12	7e	130.000	129.400	123.830	123.330	117.000	116.215
	TR130x14	7e	130.000	129.330	122.820	122.290	114.000	113.157
	TR130x22	7e	130.000	129.100	118.776	118.146	106.000	104.989
135	TR135x6	7e	135.000	134.575	131.875	131.500	128.000	127.413
	TR135x12	7e	135.000	134.400	128.830	128.330	122.000	121.215
	TR135x14	7e	135.000	134.330	127.820	127.290	119.000	118.157
	TR135x24	7e	135.000	134.050	122.764	122.094	109.000	107.926
140	TR140x6	7e	140.000	139.575	136.875	136.500	133.000	132.413
	TR140x12	7e	140.000	139.400	133.830	133.330	127.000	126.215
	TR140x14	7e	140.000	139.330	132.820	132.290	124.000	123.157
	TR140x24	7e	140.000	139.050	127.764	127.094	114.000	112.926
145	TR145x6	7e	145.000	144.575	141.875	141.500	138.000	137.413
	TR145x12	7e	145.000	144.400	138.830	138.330	132.000	131.215
	TR145x14	7e	145.000	144.330	137.820	137.290	129.000	128.157
	TR145x24	7e	145.000	144.050	132.764	132.094	119.000	117.926
150	TR150x6	7e	150.000	149.575	146.875	146.500	143.000	142.413
	TR150x12	7e	150.000	149.400	143.830	143.330	137.000	136.215
	TR150x16	7e	150.000	149.290	141.810	141.250	132.000	131.110
	TR150x24	7e	150.000	149.050	137.764	137.094	124.000	122.926
155	TR155x6	7e	155.000	154.575	151.875	151.500	148.000	147.413
	TR155x12	7e	155.000	154.400	148.830	148.330	142.000	141.215
	TR155x16	7e	155.000	154.290	146.810	146.250	137.000	136.110
	TR155x24	7e	155.000	154.050	142.764	142.094	129.000	127.926
160	TR160x6	7e	160.000	159.575	156.875	156.500	153.000	152.413
	TR160x12	7e	160.000	159.400	153.830	153.330	147.000	146.215
	TR160x16	7e	160.000	159.290	151.810	151.250	142.000	141.110
	TR160x28	7e	160.000	158.940	145.750	145.040	130.000	128.862
165	TR165x6	7e	165.000	164.575	161.875	161.500	158.000	157.413
	TR165x12	7e	165.000	164.400	158.830	158.330	152.000	151.215
	TR165x16	7e	165.000	164.290	156.810	156.250	147.000	146.110
	TR165x28	7e	165.000	163.940	150.750	150.040	135.000	133.862
170	TR170x6	7e	170.000	169.575	166.875	166.500	163.000	162.413
	TR170x12	7e	170.000	169.400	163.830	163.330	157.000	156.215
	TR170x16	7e	170.000	169.290	161.810	161.250	152.000	151.110
	TR170x28	7e	170.000	168.940	155.750	155.040	140.000	138.862
175	TR175x8	7e	175.000	174.550	170.868	170.443	166.500	165.837
	TR175x12	7e	175.000	174.400	168.830	168.330	162.000	161.215
	TR175x16	7e	175.000	174.290	166.810	166.250	157.000	156.110
	TR175x28	7e	175.000	173.940	160.750	160.040	145.000	143.862
180	TR180x8	7e	180.000	179.550	175.868	175.443	171.500	170.837
	TR180x12	7e	180.000	179.400	173.830	173.330	167.000	166.215
	TR180x18	7e	180.000	179.200	170.800	170.200	160.000	159.050
	TR180x28	7e	180.000	178.940	165.750	165.040	150.000	148.862
185	TR185x8	7e	185.000	184.550	180.868	180.418	176.500	175.805
	TR185x12	7e	185.000	184.400	178.830	178.300	172.000	171.177
	TR185x18	7e	185.000	184.200	175.800	175.170	165.000	164.013
	TR185x24	7e	185.000	184.050	172.764	172.054	159.000	157.876

	TR185x32	7e	185.000	183.880	168.735	167.935	151.000	149.735
190	TR190x8	7e	190.000	189.550	185.868	185.418	181.500	180.805
	TR190x12	7e	190.000	189.400	183.830	183.300	177.000	176.177
	TR190x18	7e	190.000	189.200	180.800	180.170	170.000	169.013
	TR190x24	7e	190.000	189.050	177.764	177.054	164.000	162.876
	TR190x32	7e	190.000	188.880	173.735	172.935	156.000	154.735
195	TR195x8	7e	195.000	194.550	190.868	190.418	186.500	185.805
	TR195x12	7e	195.000	194.400	188.830	188.300	182.000	181.177
	TR195x18	7e	195.000	194.200	185.800	185.170	175.000	174.013
	TR195x24	7e	195.000	194.050	182.764	182.054	169.000	167.876
	TR195x32	7e	195.000	193.880	178.735	177.935	161.000	159.735
200	TR200x8	7e	200.000	199.550	195.868	195.418	191.500	190.805
	TR200x12	7e	200.000	199.400	193.830	193.300	187.000	186.177
	TR200x18	7e	200.000	199.200	190.800	190.170	180.000	179.013
	TR200x24	7e	200.000	199.050	187.764	187.054	174.000	172.876
	TR200x32	7e	200.000	198.880	183.735	182.935	166.000	164.735
205	TR205x4	7e	205.000	204.700	202.905	202.550	200.500	199.979
210	TR210x4	7e	210.000	209.700	207.905	207.550	205.500	204.979
	TR210x8	7e	210.000	209.550	205.868	205.418	201.500	200.805
	TR210x12	7e	210.000	209.400	203.830	203.300	197.000	196.177
	TR210x20	7e	210.000	209.150	199.788	199.118	188.000	186.950
	TR210x24	7e	210.000	209.050	197.764	197.054	184.000	182.876
	TR210x36	7e	210.000	208.750	191.720	190.870	172.000	170.657
215	TR215x4	7e	215.000	214.700	212.905	212.550	210.500	209.979
220	TR220x4	7e	220.000	219.700	217.905	217.550	215.500	214.979
	TR220x8	7e	220.000	219.550	215.868	215.418	211.500	210.805
	TR220x12	7e	220.000	219.400	213.830	213.300	207.000	206.177
	TR220x20	7e	220.000	219.150	209.788	209.118	198.000	196.950
	TR220x24	7e	220.000	219.050	207.764	207.054	194.000	192.876
	TR220x36	7e	220.000	218.750	201.720	200.870	182.000	180.657
230	TR230x4	7e	230.000	229.700	227.905	227.550	225.500	224.979
	TR230x8	7e	230.000	229.550	225.868	225.418	221.500	220.805
	TR230x12	7e	230.000	229.400	223.830	223.300	217.000	216.177
	TR230x20	7e	230.000	229.150	219.788	219.118	208.000	206.950
	TR230x24	7e	230.000	229.050	217.764	217.054	204.000	202.876
	TR230x36	7e	230.000	228.750	211.720	210.870	192.000	190.657
235	TR235x4	7e	235.000	234.700	232.905	232.550	230.500	229.979
240	TR240x4	7e	240.000	239.700	237.905	237.550	235.500	234.979
	TR240x8	7e	240.000	239.550	235.868	235.418	231.500	230.805
	TR240x12	7e	240.000	239.400	233.830	233.300	227.000	226.177
	TR240x20	7e	240.000	239.150	229.788	229.118	218.000	216.950
	TR240x22	7e	240.000	239.100	228.776	228.106	216.000	214.938
	TR240x24	7e	240.000	239.050	227.764	227.054	214.000	212.876
	TR240x36	7e	240.000	238.750	221.720	220.870	202.000	200.657
250	TR250x4	7e	250.000	249.700	247.905	247.550	245.500	244.979
	TR250x12	7e	250.000	249.400	243.830	243.300	237.000	236.177
	TR250x22	7e	250.000	249.100	238.776	238.106	226.000	224.938
	TR250x24	7e	250.000	249.050	237.764	237.054	224.000	222.876
	TR250x40	7e	250.000	248.680	229.700	228.850	208.000	206.637
260	TR260x4	7e	260.000	259.700	257.905	257.550	255.500	254.979
	TR260x12	7e	260.000	259.400	253.830	253.300	247.000	246.177
	TR260x20	7e	260.000	259.150	249.788	249.118	238.000	236.950
	TR260x22	7e	260.000	259.100	248.776	248.106	236.000	234.938
	TR260x24	7e	260.000	259.050	247.764	247.054	234.000	232.876
	TR260x40	7e	260.000	258.680	239.700	238.850	218.000	216.637
270	TR270x12	7e	270.000	269.400	263.830	263.300	257.000	256.177

	TR270x24	7e	270.000	269.050	257.764	257.054	244.000	242.876
	TR270x40	7e	270.000	268.680	249.700	248.850	228.000	226.637
275	TR275x4	7e	275.000	274.700	272.905	272.550	270.500	269.979
280	TR280x4	7e	280.000	279.700	277.905	277.550	275.500	274.979
	TR280x12	7e	280.000	279.400	273.830	273.300	267.000	266.177
	TR280x24	7e	280.000	279.050	267.764	267.054	254.000	252.876
	TR280x40	7e	280.000	278.680	259.700	258.850	238.000	236.637
290	TR290x4	7e	290.000	289.700	287.905	287.550	285.500	284.979
	TR290x12	7e	290.000	289.400	283.830	283.300	277.000	276.177
	TR290x24	7e	290.000	289.050	277.764	277.054	264.000	262.876
	TR290x44	7e	290.000	288.600	267.685	266.785	244.000	242.560
295	TR295x4	7e	295.000	294.700	292.905	292.550	290.500	289.979
300	TR300x4	7e	300.000	299.700	297.905	297.550	295.500	294.979
	TR300x12	7e	300.000	299.400	293.830	293.300	287.000	286.177
	TR300x24	7e	300.000	299.050	287.764	287.054	274.000	272.876
	TR300x44	7e	300.000	298.600	277.685	276.785	254.000	252.560
310	TR310x5	7e	310.000	309.665	307.394	307.039	304.500	303.979
315	TR315x5	7e	315.000	314.665	312.394	312.039	309.500	308.979
320	TR320x5	7e	320.000	319.665	317.394	317.019	314.500	313.925
	TR320x12	7e	320.000	319.400	313.830	313.300	307.000	306.177
	TR320x24	7e	320.000	319.050	307.764	307.054	294.000	292.876
	TR320x44	7e	320.000	318.600	297.685	296.785	275.000	273.560
330	TR330x5	7e	330.000	329.665	327.394	327.039	324.500	323.979
335	TR335x5	7e	335.000	334.665	332.394	332.039	329.500	328.979
340	TR340x5	7e	340.000	339.665	337.394	337.019	334.500	333.925
	TR340x12	7e	340.000	339.400	333.830	333.300	327.000	326.177
	TR340x24	7e	340.000	339.050	327.764	327.054	314.000	312.876
	TR340x28	7e	340.000	338.940	325.750	325.000	310.000	308.813
	TR340x44	7e	340.000	338.600	317.685	316.785	295.000	293.560
345	TR345x5	7e	345.000	344.665	342.394	342.039	339.500	338.979
350	TR350x5	7e	350.000	349.665	347.394	347.039	344.500	343.979
355	TR355x5	7e	355.000	354.665	352.394	352.039	349.500	348.979
360	TR360x5	7e	360.000	359.665	357.394	356.994	354.500	353.894
	TR360x12	7e	360.000	359.400	353.830	353.270	347.000	346.130
	TR360x24	7e	360.000	359.050	347.764	347.014	334.000	332.827
	TR360x28	7e	360.000	358.940	345.750	344.950	330.000	328.750
	TR360x44	7e	360.000	358.600	337.685	336.735	314.000	312.498
365	TR365x5	7e	365.000	364.665	362.394	361.994	359.500	358.894
370	TR370x5	7e	370.000	369.665	367.394	366.994	364.500	363.894
375	TR375x5	7e	375.000	374.665	372.394	371.994	369.500	368.894
380	TR380x5	7e	380.000	379.665	377.394	376.994	374.500	373.894
	TR380x12	7e	380.000	379.400	373.830	373.270	367.000	366.130
	TR380x24	7e	380.000	379.050	367.764	367.014	354.000	352.827
	TR380x28	7e	380.000	378.940	365.750	364.950	350.000	348.750
	TR380x32	7e	380.000	378.880	363.735	362.885	346.000	344.673
	TR380x44	7e	380.000	378.600	357.685	356.735	334.000	332.498
385	TR385x5	7e	385.000	384.665	382.394	381.994	379.500	378.894
395	TR395x5	7e	395.000	394.665	392.394	391.994	389.500	388.894
400	TR400x5	7e	400.000	399.665	397.394	396.994	394.500	393.894
	TR400x12	7e	400.000	399.400	393.830	393.270	387.000	386.130
	TR400x24	7e	400.000	399.050	387.764	387.014	374.000	372.827
	TR400x28	7e	400.000	398.940	385.750	384.950	370.000	368.750
	TR400x32	7e	400.000	398.880	383.735	382.885	366.000	364.673
	TR400x44	7e	400.000	398.600	377.685	376.735	354.000	352.498
410	TR410x5	7e	410.000	409.665	407.394	406.994	404.500	403.894
415	TR415x5	7e	415.000	414.665	412.394	411.994	409.500	408.894

420	TR420x5	7e	420.000	419.665	417.394	416.994	414.500	413.894
	TR420x12	7e	420.000	419.400	413.830	413.270	407.000	406.130
	TR420x24	7e	420.000	419.050	407.764	407.014	394.000	392.827
	TR420x32	7e	420.000	418.880	403.735	402.885	386.000	384.673
	TR420x44	7e	420.000	418.600	397.685	396.735	374.000	372.498
430	TR430x5	7e	430.000	429.665	427.394	426.994	424.500	423.894
435	TR435x5	7e	435.000	434.665	432.394	431.994	429.500	428.894
440	TR440x5	7e	440.000	439.665	437.394	436.994	434.500	433.894
	TR440x12	7e	440.000	439.400	433.830	433.270	427.000	426.130
	TR440x24	7e	440.000	439.050	427.764	427.014	414.000	412.827
	TR440x32	7e	440.000	438.880	423.735	422.885	406.000	404.673
	TR440x36	7e	440.000	438.750	421.720	420.820	402.000	400.595
	TR440x44	7e	440.000	438.600	417.685	416.735	394.000	392.498
450	TR450x5	7e	450.000	449.665	447.394	446.994	444.500	443.894
460	TR460x5	7e	460.000	459.665	457.394	456.994	454.500	453.894
	TR460x12	7e	460.000	459.400	453.830	453.270	447.000	446.130
	TR460x24	7e	460.000	459.050	447.764	447.014	434.000	432.827
	TR460x32	7e	460.000	458.880	443.735	442.885	426.000	424.673
	TR460x36	7e	460.000	458.750	441.720	440.820	422.000	420.595
	TR460x44	7e	460.000	458.600	437.685	436.735	414.000	412.498
470	TR470x5	7e	470.000	469.665	467.394	466.994	464.500	463.894
480	TR480x5	7e	480.000	479.665	477.394	476.994	474.500	473.894
	TR480x12	7e	480.000	479.400	473.830	473.270	467.000	466.130
	TR480x24	7e	480.000	479.050	467.764	467.014	454.000	452.827
	TR480x36	7e	480.000	478.750	461.720	460.820	442.000	440.595
	TR480x44	7e	480.000	478.600	457.685	456.735	434.000	432.498
490	TR490x5	7e	490.000	489.665	487.394	486.994	484.500	483.894
500	TR500x5	7e	500.000	499.665	497.394	496.994	494.500	493.894
	TR500x12	7e	500.000	499.400	493.830	493.270	487.000	486.130
	TR500x24	7e	500.000	499.050	487.764	487.014	474.000	472.827
	TR500x36	7e	500.000	498.750	481.720	480.820	462.000	460.595
	TR500x40	7e	500.000	498.680	479.700	478.800	458.000	456.575
	TR500x44	7e	500.000	498.600	477.685	476.735	454.000	452.498
510	TR510x6	7e	510.000	509.625	506.882	506.482	503.000	502.394
520	TR520x6	7e	520.000	519.625	516.882	516.482	513.000	512.394
530	TR530x5	7e	530.000	529.665	527.394	526.994	524.500	523.894
	TR530x6	7e	530.000	529.625	526.882	526.482	523.000	522.394
	TR530x12	7e	530.000	529.400	523.830	523.270	517.000	516.130
	TR530x24	7e	530.000	529.050	517.764	517.014	504.000	502.827
	TR530x40	7e	530.000	528.680	509.700	508.800	488.000	486.575
	TR530x44	7e	530.000	528.600	507.685	506.735	484.000	482.498
540	TR540x6	7e	540.000	539.625	536.882	536.482	533.000	532.394
550	TR550x6	7e	550.000	549.625	546.882	546.482	543.000	542.394
560	TR560x5	7e	560.000	559.665	557.394	556.994	554.500	553.894
	TR560x12	7e	560.000	559.400	553.830	553.270	547.000	546.130
	TR560x24	7e	560.000	559.050	547.764	547.014	534.000	532.827
	TR560x40	7e	560.000	558.680	539.700	538.800	518.000	516.575
	TR560x44	7e	560.000	558.600	537.685	536.735	514.000	512.498
	TR560x45	7e	560.000	558.600	537.185	536.235	513.000	511.497
600	TR600x6	7e	600.000	599.625	596.882	596.457	593.000	592.351
	TR600x12	7e	600.000	599.400	593.830	593.270	587.000	586.130
	TR600x24	7e	600.000	599.050	587.764	587.014	574.000	572.827
	TR600x40	7e	600.000	598.680	579.700	578.800	558.000	556.575
	TR600x44	7e	600.000	598.600	577.685	576.735	554.000	552.498
	TR600x45	7e	600.000	598.600	577.185	576.235	553.000	551.497
630	TR630x6	7e	630.000	629.625	626.882	626.457	623.000	622.351

	TR630x12	7e	630.000	629.400	623.830	623.270	617.000	616.130
	TR630x24	7e	630.000	629.050	617.764	617.014	604.000	602.827
	TR630x44	7e	630.000	628.600	607.685	606.735	584.000	582.498
	TR630x45	7e	630.000	628.600	607.185	606.235	583.000	581.497
670	TR670x6	7e	670.000	669.625	666.882	666.457	663.000	662.351
	TR670x12	7e	670.000	669.400	663.830	663.270	657.000	656.130
	TR670x24	7e	670.000	669.050	657.764	657.014	644.000	642.827
	TR670x44	7e	670.000	668.600	647.685	646.735	624.000	622.498
	TR670x45	7e	670.000	668.600	647.185	646.235	623.000	621.497
710	TR710x7	7e	710.000	709.575	706.375	705.925	702.000	701.313
	TR710x12	7e	710.000	709.400	703.830	703.270	697.000	696.130
	TR710x24	7e	710.000	709.050	697.764	697.014	684.000	682.827
	TR710x44	7e	710.000	708.600	687.685	686.735	664.000	662.498
	TR710x50	7e	710.000	708.550	684.680	683.680	658.000	656.430
750	TR750x7	7e	750.000	749.575	746.375	745.900	742.000	741.281
	TR750x12	7e	750.000	749.400	743.830	743.200	737.000	736.043
	TR750x24	7e	750.000	749.050	737.764	736.964	724.000	722.764
	TR750x44	7e	750.000	748.600	727.685	726.625	704.000	702.360
800	TR800x7	7e	800.000	799.575	796.375	795.900	792.000	791.281
	TR800x12	7e	800.000	799.400	793.830	793.200	787.000	786.043
	TR800x24	7e	800.000	799.050	787.764	786.964	774.000	772.764
	TR800x44	7e	800.000	798.600	777.685	776.625	754.000	752.360
850	TR850x7	7e	850.000	849.575	846.375	845.900	842.000	841.281
	TR850x12	7e	850.000	849.400	843.830	843.200	837.000	836.043
	TR850x24	7e	850.000	849.050	837.764	836.964	824.000	822.764
	TR850x44	7e	850.000	848.600	827.685	826.625	804.000	802.360
900	TR900x7	7e	900.000	899.575	896.375	895.900	892.000	891.281
	TR900x12	7e	900.000	899.400	893.830	893.200	887.000	886.043
	TR900x24	7e	900.000	899.050	887.764	886.964	874.000	872.764
	TR900x44	7e	900.000	898.600	877.685	876.625	854.000	852.360
950	TR950x8	7e	950.000	949.550	945.868	945.368	941.000	940.243
	TR950x12	7e	950.000	949.400	943.830	943.200	937.000	936.043
	TR950x24	7e	950.000	949.050	937.764	936.964	924.000	922.764
	TR950x44	7e	950.000	948.600	927.685	926.625	904.000	902.360
1000	TR1000x8	7e	1000.000	999.550	995.868	995.368	991.000	990.243
	TR1000x12	7e	1000.000	999.400	993.830	993.200	987.000	986.043
	TR1000x24	7e	1000.000	999.050	987.764	986.964	974.000	972.764
	TR1000x44	7e	1000.000	998.600	977.685	976.625	954.000	952.360
1060	TR1060x8	7e	1060.000	1059.550	1055.868	1055.368	1051.000	1050.243
	TR1060x12	7e	1060.000	1059.400	1053.830	1053.200	1047.000	1046.043
	TR1060x24	7e	1060.000	1059.050	1047.764	1046.964	1034.000	1032.764
	TR1060x44	7e	1060.000	1058.600	1037.685	1036.625	1014.000	1012.360
1120	TR1120x8	7e	1120.000	1119.550	1115.868	1115.368	1111.000	1110.243
	TR1120x12	7e	1120.000	1119.400	1113.830	1113.200	1107.000	1106.043
	TR1120x24	7e	1120.000	1119.050	1107.764	1106.964	1094.000	1092.764
	TR1120x44	7e	1120.000	1118.600	1097.685	1096.625	1074.000	1072.360

Internal							
<i>Class</i>	Minor Dia		Pitch Dia		Major Dia		Tap Drill
	<i>Min</i>	<i>Max</i>	<i>Min</i>	<i>Max</i>	<i>Min</i>	<i>Max</i>	<i>Basic</i>
7H	6.500	6.690	7.250	7.474	8.300		6.500
7H	7.500	7.690	8.250	8.474	9.300		7.500
7H	7.000	7.236	8.000	8.250	9.500		
7H	8.500	8.690	9.250	9.474	10.300		8.000
7H	8.000	8.236	9.000	9.250	10.500		
7H	9.000	9.236	10.000	10.250	11.500		8.000
7H	8.000	8.315	9.500	9.780	11.500		
7H	10.000	10.236	11.000	11.265	12.500		9.000
7H	9.000	9.315	10.500	10.800	12.500		
7H	12.000	12.236	13.000	13.265	14.500		11.000
7H	11.000	11.315	12.500	12.800	14.500		
7H	14.000	14.236	15.000	15.265	16.500		12.000
7H	13.000	13.315	14.500	14.800	16.500		
7H	12.000	12.375	14.000	14.355	16.500		
7H	16.000	16.236	17.000	17.265	18.500		14.000
7H	15.000	15.315	16.500	16.800	18.500		
7H	14.000	14.375	16.000	16.355	18.500		
7H	18.000	18.236	19.000	19.265	20.500		16.000
7H	17.000	17.315	18.500	18.800	20.500		
7H	16.000	16.375	18.000	18.355	20.500		
7H	19.000	19.315	20.500	20.800	22.500		14.000
7H	17.000	17.450	19.500	19.875	22.500		
7H	14.000	14.630	18.000	18.475	22.500		
7H	21.000	21.315	22.500	22.835	24.500		16.000
7H	19.000	19.450	21.500	21.900	24.500		
7H	16.000	16.630	20.000	20.500	24.500		
7H	23.000	23.315	24.500	24.835	26.500		18.000
7H	21.000	21.450	23.500	23.900	26.500		
7H	18.000	18.630	22.000	22.500	26.500		
7H	25.000	25.315	26.500	26.835	28.500		20.000
7H	23.000	23.450	25.500	25.900	28.500		
7H	20.000	20.630	24.000	24.500	28.500		
7H	27.000	27.315	28.500	28.835	30.500		20.000
7H	24.000	24.560	27.000	27.450	31.000		
7H	20.000	20.710	25.000	25.530	31.000		
7H	29.000	29.315	30.500	30.835	32.500		22.000
7H	26.000	26.560	29.000	29.450	33.000		
7H	22.000	22.710	27.000	27.530	33.000		
7H	31.000	31.315	32.500	32.835	34.500		24.000
7H	28.000	28.560	31.000	31.450	35.000		
7H	24.000	24.710	29.000	29.530	35.000		
7H	33.000	33.315	34.500	34.835	36.500		26.000
7H	30.000	30.560	33.000	33.450	37.000		
7H	26.000	26.710	31.000	31.530	37.000		
7H	35.000	35.315	36.500	36.835	38.500		28.000
7H	31.000	31.560	34.500	34.975	39.000		
7H	28.000	28.710	33.000	33.530	39.000		
7H	37.000	37.315	38.500	38.835	40.500		30.000
7H	33.000	33.560	36.500	36.975	41.000		
7H	30.000	30.710	35.000	35.530	41.000		
7H	39.000	39.315	40.500	40.835	42.500		32.000
7H	35.000	35.560	38.500	38.975	43.000		

7H	32.000	32.710	37.000	37.530	43.000	
7H	41.000	41.315	42.500	42.835	44.500	32.000
7H	37.000	37.560	40.500	40.975	45.000	
7H	32.000	32.800	38.000	38.560	45.000	
7H	43.000	43.315	44.500	44.855	46.500	34.000
7H	38.000	38.630	42.000	42.530	47.000	
7H	34.000	34.800	40.000	40.630	47.000	
7H	45.000	45.315	46.500	46.855	48.500	36.000
7H	40.000	40.630	44.000	44.530	49.000	
7H	36.000	36.800	42.000	42.630	49.000	
7H	47.000	47.315	48.500	48.855	50.500	38.000
7H	42.000	42.630	46.000	46.530	51.000	
7H	38.000	38.800	44.000	44.630	51.000	
7H	49.000	49.315	50.500	50.855	52.500	40.000
7H	44.000	44.630	48.000	48.530	53.000	
7H	40.000	40.800	46.000	46.630	53.000	
7H	52.000	52.315	53.500	53.855	55.500	41.000
7H	46.000	46.670	50.500	51.060	56.000	
7H	41.000	41.900	48.000	48.670	57.000	
7H	57.000	57.315	58.500	58.855	60.500	46.000
7H	51.000	51.670	55.500	56.060	61.000	
7H	46.000	46.900	53.000	53.670	62.000	
7H	61.000	61.375	63.000	63.400	65.500	49.000
7H	55.000	55.710	60.000	60.560	66.000	
7H	49.000	50.000	57.000	57.710	67.000	
7H	66.000	66.375	68.000	68.400	70.500	54.000
7H	60.000	60.710	65.000	65.560	71.000	
7H	54.000	55.000	62.000	62.710	72.000	
7H	71.000	71.375	73.000	73.400	75.500	59.000
7H	65.000	65.710	70.000	70.560	76.000	
7H	59.000	60.000	67.000	67.710	77.000	
7H	76.000	76.375	78.000	78.400	80.500	64.000
7H	70.000	70.710	75.000	75.560	81.000	
7H	64.000	65.000	72.000	72.710	82.000	
7H	81.000	81.375	83.000	83.400	85.500	67.000
7H	73.000	73.800	79.000	79.630	86.000	
7H	67.000	68.120	76.000	76.750	87.000	
7H	86.000	86.375	88.000	88.400	90.500	72.000
7H	78.000	78.800	84.000	84.630	91.000	
7H	72.000	73.120	81.000	81.750	92.000	
7H	91.000	91.375	93.000	93.425	95.500	77.000
7H	83.000	83.800	89.000	89.710	96.000	
7H	77.000	78.120	86.000	86.800	97.000	
7H	96.000	96.375	98.000	98.425	100.500	80.000
7H	88.000	88.800	94.000	94.710	101.000	
7H	80.000	81.180	90.000	90.800	102.000	
7H	101.000	101.375	103.000	103.425	105.500	85.000
7H	93.000	93.800	99.000	99.710	106.000	
7H	85.000	86.180	95.000	95.800	107.000	
7H	106.000	106.375	108.000	108.425	110.500	90.000
7H	98.000	98.800	104.000	104.710	111.000	
7H	90.000	91.180	100.000	100.800	112.000	
7H	109.000	109.560	112.000	112.500	116.000	93.000
7H	103.000	103.800	109.000	109.670	116.000	
7H	101.000	101.900	108.000	108.710	117.000	
7H	93.000	94.250	104.000	104.850	117.000	

7H	114.000	114.560	117.000	117.500	121.000	98.000
7H	108.000	108.800	114.000	114.670	121.000	
7H	106.000	106.900	113.000	113.710	122.000	
7H	98.000	99.250	109.000	109.850	122.000	
7H	119.000	119.560	122.000	122.500	126.000	103.000
7H	113.000	113.800	119.000	119.670	126.000	
7H	111.000	111.900	118.000	118.710	127.000	
7H	103.000	104.250	114.000	114.850	127.000	
7H	124.000	124.560	127.000	127.500	131.000	108.000
7H	118.000	118.800	124.000	124.670	131.000	
7H	116.000	116.900	123.000	123.710	132.000	
7H	108.000	109.250	119.000	119.850	132.000	
7H	129.000	129.560	132.000	132.500	136.000	111.000
7H	123.000	123.800	129.000	129.670	136.000	
7H	121.000	121.900	128.000	128.710	137.000	
7H	111.000	112.320	123.000	123.900	137.000	
7H	134.000	134.560	137.000	137.500	141.000	116.000
7H	128.000	128.800	134.000	134.670	141.000	
7H	126.000	126.900	133.000	133.710	142.000	
7H	116.000	117.320	128.000	128.900	142.000	
7H	139.000	139.560	142.000	142.500	146.000	121.000
7H	133.000	133.800	139.000	139.670	146.000	
7H	131.000	131.900	138.000	138.710	147.000	
7H	121.000	122.320	133.000	133.900	147.000	
7H	144.000	144.560	147.000	147.500	151.000	126.000
7H	138.000	138.800	144.000	144.670	151.000	
7H	134.000	135.000	142.000	142.750	152.000	
7H	126.000	127.320	138.000	138.900	152.000	
7H	149.000	149.560	152.000	152.500	156.000	131.000
7H	143.000	143.800	149.000	149.670	156.000	
7H	139.000	140.000	147.000	147.750	157.000	
7H	131.000	132.320	143.000	143.900	157.000	
7H	154.000	154.560	157.000	157.500	161.000	132.000
7H	148.000	148.800	154.000	154.670	161.000	
7H	144.000	145.000	152.000	152.750	162.000	
7H	132.000	133.500	146.000	146.950	162.000	
7H	159.000	159.560	162.000	162.500	166.000	137.000
7H	153.000	153.800	159.000	159.670	166.000	
7H	149.000	150.000	157.000	157.750	167.000	
7H	137.000	138.500	151.000	151.950	167.000	
7H	164.000	164.560	167.000	167.500	171.000	142.000
7H	158.000	158.800	164.000	164.670	171.000	
7H	154.000	155.000	162.000	162.750	172.000	
7H	142.000	143.500	156.000	156.950	172.000	
7H	167.000	167.630	171.000	171.560	175.500	147.000
7H	163.000	163.800	169.000	169.670	176.000	
7H	159.000	160.000	167.000	167.750	177.000	
7H	147.000	148.500	161.000	161.950	177.000	
7H	172.000	172.630	176.000	176.560	180.500	152.000
7H	168.000	168.800	174.000	174.670	181.000	
7H	162.000	163.120	171.000	171.800	182.000	
7H	152.000	153.500	166.000	166.950	182.000	
7H	177.000	177.630	181.000	181.600	185.500	153.000
7H	173.000	173.800	179.000	179.710	186.000	
7H	167.000	168.120	176.000	176.850	187.000	
7H	161.000	162.320	173.000	173.950	187.000	

7H	153.000	154.600	169.000	170.060	187.000		
7H	182.000	182.630	186.000	186.600	190.500		158.000
7H	178.000	178.800	184.000	184.710	191.000		
7H	172.000	173.120	181.000	181.850	192.000		
7H	166.000	167.320	178.000	178.950	192.000		
7H	158.000	159.600	174.000	175.060	192.000		
7H	187.000	187.630	191.000	191.600	195.500		163.000
7H	183.000	183.800	189.000	189.710	196.000		
7H	177.000	178.120	186.000	186.850	197.000		
7H	171.000	172.320	183.000	183.950	197.000		
7H	163.000	164.600	179.000	180.060	197.000		
7H	192.000	192.630	196.000	196.600	200.500		168.000
7H	188.000	188.800	194.000	194.710	201.000		
7H	182.000	183.120	191.000	191.850	202.000		
7H	176.000	177.320	188.000	188.950	202.000		
7H	168.000	169.600	184.000	185.060	202.000		
7H	201.000	201.375	203.000	203.500	205.500		172.000
7H	206.000	206.375	208.000	208.500	210.500	215.714	174.000
7H	202.000	202.630	206.000	206.600	210.500		
7H	198.000	198.800	204.000	204.710	211.000		
7H	190.000	191.180	200.000	200.900	212.000		
7H	186.000	187.320	198.000	198.950	212.000		
7H	174.000	175.800	192.000	193.120	212.000		
7H	211.000	211.375	213.000	213.500	215.500		178.000
7H	216.000	216.375	218.000	218.500	220.500		184.000
7H	212.000	212.630	216.000	216.600	220.500		
7H	208.000	208.800	214.000	214.710	221.000		
7H	200.000	201.180	210.000	210.900	222.000		
7H	196.000	197.320	208.000	208.950	222.000		
7H	184.000	185.800	202.000	203.120	222.000		
7H	226.000	226.375	228.000	228.500	230.500		194.000
7H	222.000	222.630	226.000	226.600	230.500		
7H	218.000	218.800	224.000	224.710	231.000		
7H	210.000	211.180	220.000	220.900	232.000		
7H	206.000	207.320	218.000	218.950	232.000		
7H	194.000	195.800	212.000	213.120	232.000		
7H	231.000	231.375	233.000	233.500	235.500		198.000
7H	236.000	236.375	238.000	238.500	240.500		204.000
7H	232.000	232.630	236.000	236.600	240.500		
7H	228.000	228.800	234.000	234.710	241.000		
7H	220.000	221.180	230.000	230.900	242.000		
7H	218.000	219.250	229.000	229.900	242.000		
7H	216.000	217.320	228.000	228.950	242.000		
7H	204.000	205.800	222.000	223.120	242.000		
7H	246.000	246.375	248.000	248.500	250.500		210.000
7H	238.000	238.800	244.000	244.710	251.000		
7H	228.000	229.250	239.000	239.900	252.000		
7H	226.000	227.320	238.000	238.950	252.000		
7H	210.000	211.900	230.000	231.120	252.000		
7H	256.000	256.375	258.000	258.500	260.500		220.000
7H	248.000	248.800	254.000	254.710	261.000		
7H	240.000	241.180	250.000	250.900	262.000		
7H	238.000	239.250	249.000	249.900	262.000		
7H	236.000	237.320	248.000	248.950	262.000		
7H	220.000	221.900	240.000	241.120	262.000		
7H	258.000	258.800	264.000	264.710	271.000		230.000

7H	246.000	247.320	258.000	258.950	272.000	
7H	230.000	231.900	250.000	251.120	272.000	
7H	271.000	271.375	273.000	273.500	275.500	235.000
7H	276.000	276.375	278.000	278.500	280.500	240.000
7H	268.000	268.800	274.000	274.710	281.000	
7H	256.000	257.320	268.000	268.950	282.000	
7H	240.000	241.900	260.000	261.120	282.000	
7H	286.000	286.375	288.000	288.500	290.500	243.000
7H	278.000	278.800	284.000	284.710	291.000	246.000
7H	266.000	267.320	278.000	278.950	292.000	
7H	246.000	248.000	268.000	269.250	292.000	
7H	291.000	291.375	293.000	293.500	295.500	251.000
7H	296.000	296.375	298.000	298.500	300.500	256.000
7H	288.000	288.800	294.000	294.710	301.000	
7H	276.000	277.320	288.000	288.950	302.000	
7H	256.000	258.000	278.000	279.250	302.000	
7H	305.000	305.450	307.500	308.000	310.500	266.000
7H	310.000	310.450	312.500	313.000	315.500	271.000
7H	315.000	315.450	317.500	318.030	320.500	276.000
7H	308.000	308.800	314.000	314.710	321.000	
7H	296.000	297.320	308.000	308.950	322.000	
7H	276.000	278.000	298.000	299.250	321.000	
7H	325.000	325.450	327.500	328.000	330.500	286.000
7H	330.000	330.450	332.500	333.000	335.500	291.000
7H	335.000	335.450	337.500	338.030	340.500	296.000
7H	328.000	328.800	334.000	334.710	341.000	
7H	316.000	317.320	328.000	328.950	342.000	
7H	312.000	313.500	326.000	327.000	342.000	
7H	296.000	298.000	318.000	319.250	341.000	
7H	340.000	340.450	342.500	343.000	345.500	301.000
7H	345.000	345.450	347.500	348.000	350.500	306.000
7H	350.000	350.450	352.500	353.000	355.500	311.000
7H	355.000	355.450	357.500	358.060	360.500	316.000
7H	348.000	348.800	354.000	354.800	361.000	
7H	336.000	337.320	348.000	349.000	362.000	
7H	332.000	333.500	346.000	347.120	362.000	
7H	316.000	318.000	338.000	339.400	362.000	
7H	360.000	360.450	362.500	363.060	365.500	321.000
7H	365.000	365.450	367.500	368.060	370.500	326.000
7H	370.000	370.450	372.500	373.060	375.500	331.000
7H	375.000	375.450	377.500	378.060	380.500	336.000
7H	368.000	368.800	374.000	374.800	381.000	
7H	356.000	357.320	368.000	369.000	382.000	
7H	352.000	353.500	366.000	367.120	382.000	
7H	348.000	349.600	364.000	365.200	382.000	
7H	336.000	338.000	358.000	359.400	382.000	
7H	380.000	380.450	382.500	383.060	385.500	341.000
7H	390.000	390.450	392.500	393.060	395.500	351.000
7H	395.000	395.450	397.500	398.060	400.500	356.000
7H	388.000	388.800	394.000	394.800	401.000	
7H	376.000	377.320	388.000	389.000	402.000	
7H	372.000	373.500	386.000	387.120	402.000	
7H	368.000	369.600	384.000	385.200	402.000	
7H	356.000	358.000	378.000	379.400	402.000	
7H	405.000	405.450	407.500	408.060	410.500	366.000
7H	410.000	410.450	412.500	413.060	415.500	371.000

7H	415.000	415.450	417.500	418.060	420.500	376.000
7H	408.000	408.800	414.000	414.800	421.000	
7H	396.000	397.320	408.000	409.000	422.000	
7H	388.000	389.600	404.000	405.200	422.000	
7H	376.000	378.000	398.000	399.400	422.000	
7H	425.000	425.450	427.500	428.060	430.500	386.000
7H	430.000	430.450	432.500	433.060	435.500	391.000
7H	435.000	435.450	437.500	438.060	440.500	396.000
7H	428.000	428.800	434.000	434.800	441.000	
7H	416.000	417.320	428.000	429.000	442.000	
7H	408.000	409.600	424.000	425.200	442.000	
7H	404.000	405.800	422.000	423.250	442.000	
7H	396.000	398.000	418.000	419.400	442.000	
7H	445.000	445.450	447.500	448.060	450.500	406.000
7H	455.000	455.450	457.500	458.060	460.500	416.000
7H	448.000	448.800	454.000	454.800	461.000	
7H	436.000	437.320	448.000	449.000	462.000	
7H	428.000	429.600	444.000	445.200	462.000	
7H	424.000	425.800	442.000	443.250	462.000	
7H	416.000	418.000	438.000	439.400	462.000	
7H	465.000	465.450	467.500	468.060	470.500	426.000
7H	475.000	475.450	477.500	478.060	480.500	436.000
7H	468.000	468.800	474.000	474.800	481.000	
7H	456.000	457.320	468.000	469.000	482.000	
7H	444.000	445.800	462.000	463.250	482.000	
7H	436.000	438.000	458.000	459.400	482.000	
7H	485.000	485.450	487.500	488.060	490.500	446.000
7H	495.000	495.450	497.500	498.060	500.500	456.000
7H	488.000	488.800	494.000	494.800	501.000	
7H	476.000	477.320	488.000	489.000	502.000	
7H	464.000	465.800	482.000	483.250	502.000	
7H	460.000	461.900	480.000	481.250	502.000	
7H	456.000	458.000	478.000	479.400	502.000	
7H	504.000	504.500	507.000	507.560	511.000	466.000
7H	514.000	514.500	517.000	517.560	521.000	476.000
7H	525.000	525.450	527.500	528.060	530.500	486.000
7H	524.000	524.500	527.000	527.560	531.000	
7H	518.000	518.800	524.000	524.800	531.000	
7H	506.000	507.320	518.000	519.000	532.000	
7H	490.000	491.900	510.000	511.250	532.000	
7H	486.000	488.000	508.000	509.400	532.000	
7H	534.000	534.500	537.000	537.560	541.000	496.000
7H	544.000	544.500	547.000	547.560	551.000	506.000
7H	555.000	555.450	557.500	558.060	560.500	515.000
7H	548.000	548.800	554.000	554.800	561.000	
7H	536.000	537.320	548.000	549.000	562.000	
7H	520.000	521.900	540.000	541.250	562.000	
7H	516.000	518.000	538.000	539.400	562.000	
7H	515.000	517.000	537.500	538.900	562.000	
7H	594.000	594.500	597.000	597.600	601.000	555.000
7H	588.000	588.800	594.000	594.800	601.000	
7H	576.000	577.320	588.000	589.000	602.000	
7H	560.000	561.900	580.000	581.250	602.000	
7H	556.000	558.000	578.000	579.400	602.000	
7H	555.000	557.000	577.500	578.900	602.000	
7H	624.000	624.500	627.000	627.600	631.000	585.000

7H	618.000	618.800	624.000	624.800	631.000	
7H	606.000	607.320	618.000	619.000	632.000	
7H	586.000	588.000	608.000	609.400	632.000	
7H	585.000	587.000	607.500	608.900	632.000	
7H	664.000	664.500	667.000	667.600	671.000	625.000
7H	658.000	658.800	664.000	664.800	671.000	
7H	646.000	647.320	658.000	659.000	672.000	
7H	626.000	628.000	648.000	649.400	672.000	
7H	625.000	627.000	647.500	648.900	672.000	
7H	703.000	703.560	706.500	707.130	711.000	660.000
7H	698.000	698.800	704.000	704.800	711.000	
7H	686.000	687.320	698.000	699.000	712.000	
7H	666.000	668.000	688.000	689.400	712.000	
7H	660.000	662.120	685.000	686.400	712.000	
7H	743.000	743.560	746.500	747.170	751.000	706.000
7H	738.000	738.800	744.000	829.000	751.000	
7H	726.000	727.320	738.000	739.120	752.000	
7H	706.000	708.000	728.000	729.400	752.000	
7H	793.000	793.560	796.500	797.170	801.000	756.000
7H	788.000	788.800	794.000	879.000	801.000	
7H	776.000	777.320	788.000	789.120	802.000	
7H	756.000	758.000	778.000	779.400	802.000	
7H	843.000	843.560	846.500	847.170	851.000	806.000
7H	838.000	838.800	844.000	929.000	851.000	
7H	826.000	827.320	838.000	839.120	852.000	
7H	806.000	808.000	828.000	829.400	852.000	
7H	893.000	893.560	896.500	897.170	901.000	856.000
7H	888.000	888.800	894.000	979.000	901.000	
7H	876.000	877.320	888.000	889.120	902.000	
7H	856.000	858.000	878.000	879.400	902.000	
7H	942.000	942.630	946.000	946.710	951.000	906.000
7H	938.000	938.800	944.000	1029.000	951.000	
7H	926.000	927.320	938.000	939.120	952.000	
7H	906.000	908.000	928.000	929.400	952.000	
7H	992.000	992.630	996.000	996.710	1001.000	956.000
7H	988.000	988.800	994.000	1079.000	1001.000	
7H	976.000	977.320	988.000	989.120	1002.000	
7H	956.000	958.000	978.000	979.400	1002.000	
7H	1052.000	1052.630	1056.000	1056.710	1061.000	1016.000
7H	1048.000	1048.800	1054.000	1139.000	1061.000	
7H	1036.000	1037.320	1048.000	1049.120	1062.000	
7H	1016.000	1018.000	1038.000	1039.400	1062.000	
7H	1112.000	1112.630	1116.000	1116.710	1121.000	1076.000
7H	1108.000	1108.800	1114.000	1199.000	1121.000	
7H	1096.000	1097.320	1108.000	1109.120	1122.000	
7H	1076.000	1078.000	1098.000	1099.400	1122.000	

inch

		External						
<i>Size</i>	<i>Thread De</i>	<i>Class</i>	Major Dia		Pitch Dia		Minor Dia	
			<i>Max</i>	<i>Min</i>	<i>Max</i>	<i>Min</i>	<i>Max</i>	<i>Min</i>
0.0600	0-48	2B	0.0600	0.0540	0.0480	0.0435	0.0360	0.0330
0.0730	1-42	2B	0.0750	0.0690	0.0620	0.0575	0.0490	0.0460
0.0860	2-32	2B	0.0880	0.0820	0.0760	0.0710	0.0640	0.0600
0.0990	3-28	2B	0.1010	0.0950	0.0880	0.0830	0.0750	0.0710
0.1120	4-24	2B	0.1140	0.1080	0.1000	0.0950	0.0860	0.0820
0.1250	5-20	2B	0.1300	0.1230	0.1120	0.1065	0.0940	0.0900
0.1380	6-20	2B	0.1390	0.1320	0.1215	0.1155	0.1040	0.0990
0.1510	7-19	2B	0.1540	0.1470	0.1345	0.1280	0.1150	0.1090
0.1640	8-18	2B	0.1660	0.1590	0.1440	0.1375	0.1220	0.1160
0.1900	10-16	2B	0.1890	0.1820	0.1650	0.1585	0.1410	0.1350
0.2160	12-14	2B	0.2150	0.2080	0.1895	0.1825	0.1640	0.1570
0.2420	14-14	2B	0.2410	0.2340	0.2130	0.2060	0.1850	0.1780
0.2500	1/4-14	2B	0.2460	0.2370	0.2190	0.2110	0.1920	0.1850
0.3125	5/16-12	2B	0.3150	0.3060	0.2795	0.2710	0.2440	0.2360
0.3750	3/8-12	2B	0.3800	0.3710	0.3445	0.3350	0.3090	0.2990
0.4375	7/16-10	2B	0.4400	0.4290	0.3995	0.3890	0.3590	0.3490
0.5000	1/2-10	2B	0.5040	0.4930	0.4635	0.4530	0.4230	0.4130

Internal					
<i>Class</i>	Minor Dia		Pitch Dia		Tap Drill
	<i>Min</i>	<i>Max</i>	<i>Min</i>	<i>Max</i>	<i>Basic</i>

mm

		External						
Size	Thread Designation	Class	Major Dia		Pitch Dia		Minor Dia	
			Max	Min	Max	Min	Max	Min
1.5	1.5x0.5	6g	1.520	1.380	1.215	1.110	0.910	0.840
	ST1.5x0.5	6g	1.520	1.380	1.215	1.110	0.910	0.840
1.9	1.9x0.6	6g	1.900	1.760	1.570	1.465	1.240	1.170
	ST1.9x0.6	6g	1.900	1.760	1.570	1.465	1.240	1.170
2.2	2.2x0.8	6g	2.240	2.100	1.935	1.810	1.630	1.520
	ST2.2x0.8	6g	2.240	2.100	1.935	1.810	1.630	1.520
2.6	2.6x0.9	6g	2.570	2.430	2.235	2.115	1.900	1.800
	ST2.6x0.9	6g	2.570	2.430	2.235	2.115	1.900	1.800
2.9	2.9x1	6g	2.900	2.760	2.540	2.420	2.180	2.080
	2.9x1.1	6g	2.900	2.760	2.540	2.420	2.180	2.080
	ST2.9x1.1	6g	2.900	2.760	2.540	2.420	2.180	2.080
	2.9x1.3	6g	2.900	2.720	2.540	2.355	1.890	1.700
	2.9x1.4	6g	2.900	2.720	2.340	2.175	1.780	1.630
3.3	3.3x1.3	6g	3.300	3.120	2.795	2.665	2.290	2.210
	ST3.3x1.3	6g	3.300	3.120	2.795	2.665	2.290	2.210
3.5	3.5x1.3	6g	3.530	3.350	3.085	2.930	2.640	2.510
	ST3.5x1.3	6g	3.530	3.350	3.085	2.930	2.640	2.510
	3.5x1.6	6g	3.530	3.350	2.920	2.755	2.310	2.160
	3.5x3.2	6g	3.530	3.310	2.800	2.600	2.070	1.890
3.9	3.9x1.3	6g	3.910	3.730	3.415	3.250	2.920	2.770
	ST3.9x1.3	6g	3.910	3.730	3.415	3.250	2.920	2.770
	3.9x1.6	6g	3.910	3.730	3.300	3.135	2.690	2.540
	3.9x3.2	6g	3.910	3.690	3.180	2.980	2.450	2.270
4.2	4.2x1.4	6g	4.220	4.040	3.660	3.495	3.100	2.950
	ST4.2x1.4	6g	4.220	4.040	3.660	3.495	3.100	2.950
	4.2x1.6	6g	4.220	4.040	3.610	3.445	3.000	2.850
	4.2x3.2	6g	4.220	4.000	3.380	3.180	2.540	2.360
4.8	4.8x1.6	6g	4.800	4.620	4.190	4.025	3.580	3.430
	ST4.8x1.6	6g	4.800	4.620	4.190	4.025	3.580	3.430
	4.8x1.8	6g	4.800	4.620	4.065	3.885	3.330	3.150
	4.8x3.2	6g	4.800	4.580	3.960	3.760	3.120	2.940
5.5	5.5x1.8	6g	5.460	5.280	4.815	4.635	4.170	3.990
	ST5.5x1.8	6g	5.460	5.280	4.815	4.635	4.170	3.990
6.3	6.3x1.8	6g	6.250	6.030	5.565	5.365	4.880	4.700
	ST6.3x1.8	6g	6.250	6.030	5.565	5.365	4.880	4.700
8.0	8x2.1	6g	8.000	7.780	7.100	6.885	6.200	5.990
	ST8x2.1	6g	8.000	7.780	7.100	6.885	6.200	5.990
9.5	9.5x2.1	6g	9.650	9.430	8.750	8.510	7.850	7.590
	ST9.5x2.1	6g	9.650	9.430	8.750	8.510	7.850	7.590

Internal					
<i>Class</i>	Minor Dia		Pitch Dia		Tap Drill
	<i>Min</i>	<i>Max</i>	<i>Min</i>	<i>Max</i>	<i>Basic</i>

inch-
taper

Nominal Pipe Size	Outside Pipe Diameter	TPI	Thread Pitch	Beginning External Pitch Diameter	Handtight Engagement		Effective Thread, External	
					<i>Length</i>	<i>Diameter</i>	<i>Length</i>	<i>Diameter</i>
1/16	0.3125	27	0.037037	0.27118	0.16	0.28118	0.2611	0.2875
1/8	0.405	27	0.037037	0.36351	0.1615	0.3736	0.2639	0.38
1/4	0.54	18	0.055556	0.47739	0.2278	0.49163	0.4018	0.5025
3/8	0.675	18	0.055556	0.61201	0.24	0.62701	0.4078	0.6375
1/2	0.84	14	0.071429	0.75843	0.32	0.77843	0.5337	0.79179
3/4	1.05	14	0.071429	0.96768	0.339	0.98887	0.5457	1.00179
1	1.31511	11.5	0.086957	1.21363	0.4	1.23863	0.6828	1.2563
1 1/4	1.66	11.5	0.086957	1.55713	0.42	1.58338	0.7068	1.6013
1 1/2	1.9	11.5	0.086957	1.79609	0.42	1.82234	0.7235	1.8413
2	2.37511	11.5	0.086957	2.26902	0.436	2.29627	0.7565	2.3163
2 1/2	2.875	8	0.125	2.71953	0.682	2.76216	1.1375	2.79062
3	3.5	8	0.125	3.34062	0.766	3.3885	1.2	3.41562
3 1/2	4	8	0.125	3.8375	0.821	3.8881	1.25	3.91562
4	4.5	8	0.125	4.33438	0.844	4.38712	1.3	4.41562
5	5.563	8	0.125	5.39073	0.937	5.44929	1.4063	5.47862
6	6.625	8	0.125	6.44609	0.958	6.50597	1.5125	6.54062
8	8.625	8	0.125	8.43359	1.063	8.50003	1.7125	8.54062
10	10.75	8	0.125	10.54531	1.21	10.62094	1.925	10.66562
12	12.75	8	0.125	12.53281	1.36	12.61781	2.125	12.66562

Wrench Makeup, Internal		Vanish Thread	Overall Length, External	Nominal Perfect External Threads		Height of Thread	Basic Minor Diameter, Small End of Pipe
<i>Length</i>	<i>Diameter</i>			<i>Length</i>	<i>Diameter</i>		
0.0741	0.2656	0.1285	0.3896	0.187	0.28287	0.02963	0.2416
0.0741	0.35889	0.1285	0.3924	0.1898	0.37537	0.02963	0.3339
0.1111	0.47045	0.1928	0.5946	0.2907	0.49556	0.04444	0.4329
0.1111	0.60507	0.1928	0.6006	0.2967	0.63056	0.04444	0.5676
0.1429	0.74951	0.2478	0.7815	0.3909	0.78286	0.05714	0.7013
0.1429	0.95876	0.2478	0.7935	0.4029	0.99286	0.05714	0.9105
0.1739	1.20277	0.3017	0.9845	0.5089	1.24543	0.06957	1.1441
0.1739	1.54627	0.3017	1.0085	0.5329	1.59043	0.06957	1.4876
0.1739	1.78523	0.3017	1.0252	0.5496	1.83043	0.06957	1.7265
0.1739	2.25816	0.3017	1.0582	0.5826	2.30543	0.06957	2.1995
0.25	2.70391	0.4337	1.5712	0.8875	2.775	0.1	2.6195
0.25	3.325	0.4337	1.6337	0.95	3.4	0.1	3.2406
0.25	3.82188	0.4337	1.6837	1	3.9	0.1	3.7375
0.25	4.31875	0.4337	1.7337	1.05	4.4	0.1	4.2344
0.25	5.37511	0.4337	1.84	1.1563	5.463	0.1	5.2907
0.25	6.43047	0.4337	1.9462	1.2625	6.525	0.1	6.3461
0.25	8.41797	0.4337	2.1462	1.4625	8.525	0.1	8.3336
0.25	10.52969	0.4337	2.3587	1.675	10.65	0.1	10.4453
0.25	12.51719	0.4337	2.5587	1.875	12.65	0.1	12.4328

inch-taper	Outside Pipe Diameter(外徑管螺紋)	TPI	Thread Pitch(螺距)	Beginning External Diameter(開始外徑)	Handtight Engagement		Effective Thread, External		Wrench Makeup, Internal		Vanish Thread	Overall Length, External(全部長度)
					Length	Diameter	Length	Diameter	Length	Diameter		
1/16	0.3125	27	0.037037	0.27118	0.16	0.28118	0.2611	0.2875	0.1111	0.26424	0.1285	0.3896
1/8	0.405	27	0.037037	0.36351	0.1615	0.3736	0.2639	0.38	0.1111	0.35656	0.1285	0.3924
1/4	0.54	18	0.0555556	0.47739	0.2278	0.49163	0.4018	0.5025	0.1667	0.46697	0.1928	0.5946
3/8	0.675	18	0.0555556	0.61201	0.24	0.62701	0.4078	0.6375	0.1667	0.6016	0.1928	0.6006
1/2	0.84	14	0.0714286	0.75843	0.32	0.77843	0.5337	0.79179	0.2143	0.74504	0.2478	0.7815
3/4	1.05	14	0.0714286	0.96768	0.339	0.98887	0.5457	1.00179	0.2143	0.95429	0.2478	0.7935
1	1.31511	11.5	0.0869565	1.21363	0.4	1.23863	0.6828	1.2563	0.2609	1.19733	0.3017	0.9845
1 1/4	1.66	11.5	0.0869565	1.55713	0.42	1.58338	0.7068	1.6013	0.2609	1.54083	0.3017	1.0085
1 1/2	1.9	11.5	0.0869565	1.79609	0.42	1.82234	0.7235	1.8413	0.2609	1.77978	0.3017	1.0252
2	2.37511	11.5	0.0869565	2.26902	0.436	2.29627	0.7565	2.3163	0.2609	2.25272	0.3017	1.0582
2 1/2	2.875	8	0.125	2.71953	0.682	2.76216	1.1375	2.79062	0.25	2.70391	0.4337	1.5712
3	3.5	8	0.125	3.34062	0.766	3.3885	1.2	3.41562	0.25	3.325	0.4337	1.6337
3 1/2	4	8	0.125	3.8375	0.821	3.8881	1.25	3.91562	0.25	3.82188	0.4337	1.6837
4	4.5	8	0.125	4.33438	0.844	4.38712	1.3	4.41562	0.25	4.31875	0.4337	1.7337
5	5.563	8	0.125	5.39073	0.937	5.44929	1.4063	5.47862	0.25	5.37511	0.4337	1.84
6	6.625	8	0.125	6.44609	0.958	6.50597	1.5125	6.54062	0.25	6.43047	0.4337	1.9462
8	8.625	8	0.125	8.43359	1.063	8.50003	1.7125	8.54062	0.25	8.41797	0.4337	2.1462
10	10.75	8	0.125	10.54531	1.21	10.62094	1.925	10.66562	0.25	10.52969	0.4337	2.3587
12	12.75	8	0.125	12.53281	1.36	12.61781	2.125	12.66562	0.25	12.51719	0.4337	2.5587

Nominal Perfect External Threads		Height of Thread	Basic Minor Diameter, Small End of Pipe
<i>Length</i>	<i>Diameter</i>		
0.187	0.28287	0.02963	0.2416
0.1898	0.37537	0.02963	0.3339
0.2907	0.49556	0.04444	0.4329
0.2967	0.63056	0.04444	0.5676
0.3909	0.78286	0.05714	0.7013
0.4029	0.99286	0.05714	0.9105
0.5089	1.24543	0.06957	1.1441
0.5329	1.59043	0.06957	1.4876
0.5496	1.83043	0.06957	1.7265
0.5826	2.30543	0.06957	2.1995
0.8875	2.775	0.1	2.6195
0.95	3.4	0.1	3.2406
1	3.9	0.1	3.7375
1.05	4.4	0.1	4.2344
1.1563	5.463	0.1	5.2907
1.2625	6.525	0.1	6.3461
1.4625	8.525	0.1	8.3336
1.675	10.65	0.1	10.4453
1.875	12.65	0.1	12.4328

mm

		External						
Size	Thread Designatio	Class	Major Dia		Pitch Dia		Minor Dia	
			Max	Min	Max	Min	Max	Min
7.723	G7.723x0.907	A	7.723	7.509	7.142	7.035	6.561	
	G7.723x0.907	B	7.723	7.509	7.142	6.928	6.561	
9.728	G9.728x0.907	A	9.728	9.514	9.147	9.040	8.566	
	G9.728x0.907	B	9.728	9.514	9.147	8.933	8.566	
13.157	G13.157x1.337	A	13.157	12.907	12.301	12.176	11.445	
	G13.157x1.337	B	13.157	12.907	12.301	12.051	11.445	
16.662	G16.662x1.337	A	16.662	16.412	15.806	15.681	14.950	
	G16.662x1.337	B	16.662	16.412	15.806	15.556	14.950	
20.955	G20.955x1.814	A	20.955	20.671	19.793	19.651	18.631	
	G20.955x1.814	B	20.955	20.671	19.793	19.509	18.631	
22.911	G22.911x1.814	A	22.911	22.627	21.749	21.607	20.587	
	G22.911x1.814	B	22.911	22.627	21.749	21.465	20.587	
26.441	G26.441x1.814	A	26.441	26.157	25.279	25.137	24.117	
	G26.441x1.814	B	26.441	26.157	25.279	24.995	24.117	
30.201	G30.201x1.814	A	30.201	29.917	29.039	28.897	27.877	
	G30.201x1.814	B	30.201	29.917	29.039	28.755	27.877	
33.249	G33.249x2.309	A	33.249	32.889	31.770	31.590	30.291	
	G33.249x2.309	B	33.249	32.889	31.770	31.410	30.291	
37.897	G37.897x2.309	A	37.897	37.537	36.418	36.238	34.939	
	G37.897x2.309	B	37.897	37.537	36.418	36.058	34.939	
41.910	G41.91x2.309	A	41.910	41.550	40.431	40.251	38.952	
	G41.91x2.309	B	41.910	41.550	40.431	40.071	38.952	
47.803	G47.803x2.309	A	47.803	47.443	46.324	46.144	44.845	
	G47.803x2.309	B	47.803	47.443	46.324	45.964	44.845	
53.746	G53.746x2.309	A	53.746	53.386	52.267	52.087	50.788	
	G53.746x2.309	B	53.746	53.386	52.267	51.907	50.788	
59.614	G59.614x2.309	A	59.614	59.254	58.135	57.955	56.656	
	G59.614x2.309	B	59.614	59.254	58.135	57.775	56.656	
65.710	G65.71x2.309	A	65.710	65.276	64.231	64.014	62.752	
	G65.71x2.309	B	65.710	65.276	64.231	63.797	62.752	
75.184	G75.184x2.309	A	75.184	74.750	73.705	73.488	72.226	
	G75.184x2.309	B	75.184	74.750	73.705	73.271	72.226	
81.534	G81.534x2.309	A	81.534	81.100	80.055	79.838	78.576	
	G81.534x2.309	B	81.534	81.100	80.055	79.621	78.576	
87.884	G87.884x2.309	A	87.884	87.450	86.405	86.188	84.926	
	G87.884x2.309	B	87.884	87.450	86.405	85.971	84.926	
100.330	G100.33x2.309	A	100.330	99.896	98.851	98.634	97.372	
	G100.33x2.309	B	100.330	99.896	98.851	98.417	97.372	
113.030	G113.03x2.309	A	113.030	112.596	111.551	111.334	110.072	
	G113.03x2.309	B	113.030	112.596	111.551	111.117	110.072	
125.730	G125.73x2.309	A	125.730	125.296	124.251	124.034	122.772	
	G125.73x2.309	B	125.730	125.296	124.251	123.817	122.772	
138.430	G138.43x2.309	A	138.430	137.996	136.951	136.734	135.472	
	G138.43x2.309	B	138.430	137.996	136.951	136.517	135.472	
151.130	G151.13x2.309	A	151.130	150.696	149.651	149.434	148.172	
	G151.13x2.309	B	151.130	150.696	149.651	149.217	148.172	
163.830	G163.83x2.309	A	163.830	163.396	162.351	162.134	160.872	
	G163.83x2.309	B	163.830	163.396	162.351	161.917	160.872	

Internal							
<i>Class</i>	Minor Dia		Pitch Dia		Major Dia		Tap Drill
	<i>Min</i>	<i>Max</i>	<i>Min</i>	<i>Max</i>	<i>Min</i>	<i>Max</i>	<i>Basic</i>
	6.561	6.834	7.142	7.249	7.723		1.5875
	8.566	8.848	9.147	9.254	9.728		3.1750
	11.445	11.89	12.301	12.426	13.157		6.3500
	14.95	15.395	15.806	15.931	16.662		9.5250
	18.631	19.172	19.793	19.935	20.955		12.7000
	20.587	21.128	21.749	21.891	22.911		
	24.117	24.658	25.279	25.421	26.441		15.8750
	27.877	28.418	29.039	29.181	30.201		22.2250
	30.291	30.931	31.77	31.95	33.249		25.4000
	34.939	35.579	36.418	36.598	37.897		28.5750
	38.952	39.592	40.431	40.611	41.910		31.7500
	44.845	45.485	46.324	46.504	47.803		38.1000
	50.788	51.428	52.267	52.447	53.746		44.4500
	56.656	57.296	58.135	58.315	59.614		50.8000
	62.752	63.392	64.231	64.448	65.710		57.1500
	72.226	72.866	73.705	73.922	75.184		
	78.576	79.216	80.055	80.272	81.534		69.8500
	84.926	85.566	86.405	86.622	87.884		76.2000
	97.372	98.012	98.851	99.068	100.330		88.9000
	110.072	110.712	111.551	111.768	113.030		101.6000
	122.772	123.412	124.251	124.468	125.730		114.3000
	135.472	136.112	136.951	137.168	138.430		127.0000
	148.172	148.812	149.651	149.868	151.130		139.7000
	160.872	161.512	162.351	162.568	163.830		152.4000

mm-taper

Nominal Pipe Size	Outside Pipe Diameter	TPI	Thread Pitch	Beginning External Pitch Diameter	Handtight Engagement		Effective Thread, External	
					<i>Length</i>	<i>Diameter</i>	<i>Length</i>	<i>Diameter</i>
R 1/16	7	28	0.9071	7.142			2.5	
R 1/8	10.5	28	0.9071	9.147			2.5	
R 1/4	13.8	19	1.3368	12.301			3.7	
R 3/8	17.3	19	1.3368	15.806			3.7	
R 1/2	21.7	14	1.8143	19.793			5	
R 3/4	27.2	14	1.8143	25.279			5	
R 1	34	11	2.3091	31.77			6.4	
R 1 1/4	42.7	11	2.3091	40.431			6.4	
R 1 1/2	48.6	11	2.3091	46.324			6.4	
R 2	60.5	11	2.3091	58.135			7.5	
R 2 1/2	76.3	11	2.3091	73.705			9.2	
R 3	89.1	11	2.3091	86.405			9.2	
R 4	114.6	11	2.3091	111.551			10.4	
R 5	139.8	11	2.3091	136.951			11.5	
R 6	165.2	11	2.3091	162.351			11.5	

mm

		External						
Size	Thread Designatio	Class	Major Dia		Pitch Dia		Minor Dia	
			Max	Min	Max	Min	Max	Min
7.723	G7.723x0.907	A	7.723	7.509	7.142	7.035	6.561	
	G7.723x0.907	B	7.723	7.509	7.142	6.928	6.561	
9.728	G9.728x0.907	A	9.728	9.514	9.147	9.040	8.566	
	G9.728x0.907	B	9.728	9.514	9.147	8.933	8.566	
13.157	G13.157x1.337	A	13.157	12.907	12.301	12.176	11.445	
	G13.157x1.337	B	13.157	12.907	12.301	12.051	11.445	
16.662	G16.662x1.337	A	16.662	16.412	15.806	15.681	14.950	
	G16.662x1.337	B	16.662	16.412	15.806	15.556	14.950	
20.955	G20.955x1.814	A	20.955	20.671	19.793	19.651	18.631	
	G20.955x1.814	B	20.955	20.671	19.793	19.509	18.631	
22.911	G22.911x1.814	A	22.911	22.627	21.749	21.607	20.587	
	G22.911x1.814	B	22.911	22.627	21.749	21.465	20.587	
26.441	G26.441x1.814	A	26.441	26.157	25.279	25.137	24.117	
	G26.441x1.814	B	26.441	26.157	25.279	24.995	24.117	
30.201	G30.201x1.814	A	30.201	29.917	29.039	28.897	27.877	
	G30.201x1.814	B	30.201	29.917	29.039	28.755	27.877	
33.249	G33.249x2.309	A	33.249	32.889	31.770	31.590	30.291	
	G33.249x2.309	B	33.249	32.889	31.770	31.410	30.291	
37.897	G37.897x2.309	A	37.897	37.537	36.418	36.238	34.939	
	G37.897x2.309	B	37.897	37.537	36.418	36.058	34.939	
41.910	G41.91x2.309	A	41.910	41.550	40.431	40.251	38.952	
	G41.91x2.309	B	41.910	41.550	40.431	40.071	38.952	
47.803	G47.803x2.309	A	47.803	47.443	46.324	46.144	44.845	
	G47.803x2.309	B	47.803	47.443	46.324	45.964	44.845	
53.746	G53.746x2.309	A	53.746	53.386	52.267	52.087	50.788	
	G53.746x2.309	B	53.746	53.386	52.267	51.907	50.788	
59.614	G59.614x2.309	A	59.614	59.254	58.135	57.955	56.656	
	G59.614x2.309	B	59.614	59.254	58.135	57.775	56.656	
65.710	G65.71x2.309	A	65.710	65.276	64.231	64.014	62.752	
	G65.71x2.309	B	65.710	65.276	64.231	63.797	62.752	
75.184	G75.184x2.309	A	75.184	74.750	73.705	73.488	72.226	
	G75.184x2.309	B	75.184	74.750	73.705	73.271	72.226	
81.534	G81.534x2.309	A	81.534	81.100	80.055	79.838	78.576	
	G81.534x2.309	B	81.534	81.100	80.055	79.621	78.576	
87.884	G87.884x2.309	A	87.884	87.450	86.405	86.188	84.926	
	G87.884x2.309	B	87.884	87.450	86.405	85.971	84.926	
100.330	G100.33x2.309	A	100.330	99.896	98.851	98.634	97.372	
	G100.33x2.309	B	100.330	99.896	98.851	98.417	97.372	
113.030	G113.03x2.309	A	113.030	112.596	111.551	111.334	110.072	
	G113.03x2.309	B	113.030	112.596	111.551	111.117	110.072	
125.730	G125.73x2.309	A	125.730	125.296	124.251	124.034	122.772	
	G125.73x2.309	B	125.730	125.296	124.251	123.817	122.772	
138.430	G138.43x2.309	A	138.430	137.996	136.951	136.734	135.472	
	G138.43x2.309	B	138.430	137.996	136.951	136.517	135.472	
151.130	G151.13x2.309	A	151.130	150.696	149.651	149.434	148.172	
	G151.13x2.309	B	151.130	150.696	149.651	149.217	148.172	
163.830	G163.83x2.309	A	163.830	163.396	162.351	162.134	160.872	
	G163.83x2.309	B	163.830	163.396	162.351	161.917	160.872	

Internal							
<i>Class</i>	Minor Dia		Pitch Dia		Major Dia		Tap Drill
	<i>Min</i>	<i>Max</i>	<i>Min</i>	<i>Max</i>	<i>Min</i>	<i>Max</i>	<i>Basic</i>
	6.561	6.834	7.142	7.249	7.723		1.5875
	8.566	8.848	9.147	9.254	9.728		3.1750
	11.445	11.89	12.301	12.426	13.157		6.3500
	14.95	15.395	15.806	15.931	16.662		9.5250
	18.631	19.172	19.793	19.935	20.955		12.7000
	20.587	21.128	21.749	21.891	22.911		
	24.117	24.658	25.279	25.421	26.441		15.8750
	27.877	28.418	29.039	29.181	30.201		22.2250
	30.291	30.931	31.77	31.95	33.249		25.4000
	34.939	35.579	36.418	36.598	37.897		28.5750
	38.952	39.592	40.431	40.611	41.910		31.7500
	44.845	45.485	46.324	46.504	47.803		38.1000
	50.788	51.428	52.267	52.447	53.746		44.4500
	56.656	57.296	58.135	58.315	59.614		50.8000
	62.752	63.392	64.231	64.448	65.710		57.1500
	72.226	72.866	73.705	73.922	75.184		
	78.576	79.216	80.055	80.272	81.534		69.8500
	84.926	85.566	86.405	86.622	87.884		76.2000
	97.372	98.012	98.851	99.068	100.330		88.9000
	110.072	110.712	111.551	111.768	113.030		101.6000
	122.772	123.412	124.251	124.468	125.730		114.3000
	135.472	136.112	136.951	137.168	138.430		127.0000
	148.172	148.812	149.651	149.868	151.130		139.7000
	160.872	161.512	162.351	162.568	163.830		152.4000

mm-taper

Nominal Pipe Size	Outside Pipe Diameter	TPI	Thread Pitch	Beginning External Pitch Diameter	Handtight Engagement		Effective Thread, External	
					<i>Length</i>	<i>Diameter</i>	<i>Length</i>	<i>Diameter</i>
R 1/16	7	28	0.9071	7.142			2.5	
R 1/8	10.5	28	0.9071	9.147			2.5	
R 1/4	13.8	19	1.3368	12.301			3.7	
R 3/8	17.3	19	1.3368	15.806			3.7	
R 1/2	21.7	14	1.8143	19.793			5	
R 3/4	27.2	14	1.8143	25.279			5	
R 1	34	11	2.3091	31.77			6.4	
R 1 1/4	42.7	11	2.3091	40.431			6.4	
R 1 1/2	48.6	11	2.3091	46.324			6.4	
R 2	60.5	11	2.3091	58.135			7.5	
R 2 1/2	76.3	11	2.3091	73.705			9.2	
R 3	89.1	11	2.3091	86.405			9.2	
R 4	114.6	11	2.3091	111.551			10.4	
R 5	139.8	11	2.3091	136.951			11.5	
R 6	165.2	11	2.3091	162.351			11.5	

mm-taper

Nominal Pipe Size	Outside Pipe Diameter	TPI	Thread Pitch	Beginning External Pitch Diameter	Handtight Engagement		Effective Thread, External	
					<i>Length</i>	<i>Diameter</i>	<i>Length</i>	<i>Diameter</i>
M5	5	31.75	0.8					
M6	6	25.4	1					
M8x1	8	25.4	1					
M10x1	10	25.4	1					
M10x1.25	10	20.32	1.25					
M12x1	12	25.4	1					
M12x1.25	12	20.32	1.25					
M12x1.5	12	16.933333	1.5					
M14x1.5	14	16.933333	1.5					
M16x1.5	16	16.933333	1.5					
M18x1.5	18	16.933333	1.5					
M20x1.5	20	16.933333	1.5					
M22x1.5	22	16.933333	1.5					
M24x1.5	24	16.933333	1.5					
M26x1.5	26	16.933333	1.5					
M27x1.5	27	16.933333	1.5					
M27x2	27	12.7	2					
M30x1.5	30	16.933333	1.5					
M30x2	30	12.7	2					
M33x1.5	33	16.933333	1.5					
M33x2	33	12.7	2					
M36x1.5	36	16.933333	1.5					
M36x2	36	12.7	2					
M38x1.5	38	16.933333	1.5					
M39x1.5	39	16.933333	1.5					
M39x2	39	12.7	2					
M42x1.5	42	16.933333	1.5					
M42x2	42	12.7	2					
M45x1.5	45	16.933333	1.5					
M45x2	45	12.7	2					
M48x1.5	48	16.933333	1.5					
M48x2	48	12.7	2					
M52x1.5	52	16.933333	1.5					
M52x2	52	12.7	2					
M56x2	56	12.7	2					
M60x2	60	12.7	2					

mm-taper

Nominal Pipe Size	Outside Pipe Diameter	TPI	Thread Pitch	Beginning External Pitch Diameter	Handtight Engagement		Effective Thread, External	
					<i>Length</i>	<i>Diameter</i>	<i>Length</i>	<i>Diameter</i>
R 1/16	7	28	0.9071	7.142				
R 1/8	10.5	28	0.9071	9.147				
R 1/4	13.8	19	1.3368	12.301				
R 3/8	17.3	19	1.3368	15.806				
R 1/2	21.7	14	1.8143	19.793				
R 3/4	27.2	14	1.8143	25.279				
R 1	34	11	2.3091	31.77				
R 1 1/4	42.7	11	2.3091	40.431				
R 1 1/2	48.6	11	2.3091	46.324				
R 2	60.5	11	2.3091	58.135				
R 2 1/2	76.3	11	2.3091	73.705				
R 3	89.1	11	2.3091	86.405				
R 4	114.6	11	2.3091	111.551				
R 5	139.8	11	2.3091	136.951				
R 6	165.2	11	2.3091	162.351				

mm

		External					
Size	Thread Designatio	Class	Major Dia		Pitch Dia		Mino
			Max	Min	Max	Min	Max
7.723	G7.723x0.907	A	7.723	7.509	7.142	7.035	6.561
	G7.723x0.907	B	7.723	7.509	7.142	6.928	6.561
9.728	G9.728x0.907	A	9.728	9.514	9.147	9.040	8.566
	G9.728x0.907	B	9.728	9.514	9.147	8.933	8.566
13.157	G13.157x1.337	A	13.157	12.907	12.301	12.176	11.445
	G13.157x1.337	B	13.157	12.907	12.301	12.051	11.445
16.662	G16.662x1.337	A	16.662	16.412	15.806	15.681	14.950
	G16.662x1.337	B	16.662	16.412	15.806	15.556	14.950
20.955	G20.955x1.814	A	20.955	20.671	19.793	19.651	18.631
	G20.955x1.814	B	20.955	20.671	19.793	19.509	18.631
22.911	G22.911x1.814	A	22.911	22.627	21.749	21.607	20.587
	G22.911x1.814	B	22.911	22.627	21.749	21.465	20.587
26.441	G26.441x1.814	A	26.441	26.157	25.279	25.137	24.117
	G26.441x1.814	B	26.441	26.157	25.279	24.995	24.117
30.201	G30.201x1.814	A	30.201	29.917	29.039	28.897	27.877
	G30.201x1.814	B	30.201	29.917	29.039	28.755	27.877
33.249	G33.249x2.309	A	33.249	32.889	31.770	31.590	30.291
	G33.249x2.309	B	33.249	32.889	31.770	31.410	30.291
37.897	G37.897x2.309	A	37.897	37.537	36.418	36.238	34.939
	G37.897x2.309	B	37.897	37.537	36.418	36.058	34.939
41.910	G41.91x2.309	A	41.910	41.550	40.431	40.251	38.952
	G41.91x2.309	B	41.910	41.550	40.431	40.071	38.952
47.803	G47.803x2.309	A	47.803	47.443	46.324	46.144	44.845
	G47.803x2.309	B	47.803	47.443	46.324	45.964	44.845
53.746	G53.746x2.309	A	53.746	53.386	52.267	52.087	50.788
	G53.746x2.309	B	53.746	53.386	52.267	51.907	50.788
59.614	G59.614x2.309	A	59.614	59.254	58.135	57.955	56.656
	G59.614x2.309	B	59.614	59.254	58.135	57.775	56.656
65.710	G65.71x2.309	A	65.710	65.276	64.231	64.014	62.752
	G65.71x2.309	B	65.710	65.276	64.231	63.797	62.752
75.184	G75.184x2.309	A	75.184	74.750	73.705	73.488	72.226
	G75.184x2.309	B	75.184	74.750	73.705	73.271	72.226
81.534	G81.534x2.309	A	81.534	81.100	80.055	79.838	78.576
	G81.534x2.309	B	81.534	81.100	80.055	79.621	78.576
87.884	G87.884x2.309	A	87.884	87.450	86.405	86.188	84.926
	G87.884x2.309	B	87.884	87.450	86.405	85.971	84.926
100.330	G100.33x2.309	A	100.330	99.896	98.851	98.634	97.372
	G100.33x2.309	B	100.330	99.896	98.851	98.417	97.372
113.030	G113.03x2.309	A	113.030	112.596	111.551	111.334	110.072
	G113.03x2.309	B	113.030	112.596	111.551	111.117	110.072
125.730	G125.73x2.309	A	125.730	125.296	124.251	124.034	122.772
	G125.73x2.309	B	125.730	125.296	124.251	123.817	122.772
138.430	G138.43x2.309	A	138.430	137.996	136.951	136.734	135.472
	G138.43x2.309	B	138.430	137.996	136.951	136.517	135.472
151.130	G151.13x2.309	A	151.130	150.696	149.651	149.434	148.172
	G151.13x2.309	B	151.130	150.696	149.651	149.217	148.172
163.830	G163.83x2.309	A	163.830	163.396	162.351	162.134	160.872
	G163.83x2.309	B	163.830	163.396	162.351	161.917	160.872

r Dia <i>Min</i>	Internal							
	Class	Minor Dia		Pitch Dia		Major Dia		Tap Drill
		<i>Min</i>	<i>Max</i>	<i>Min</i>	<i>Max</i>	<i>Min</i>	<i>Max</i>	<i>Basic</i>
		6.561	6.834	7.142	7.249	7.723	1.5875	
		8.566	8.848	9.147	9.254	9.728	3.1750	
		11.445	11.89	12.301	12.426	13.157	6.3500	
		14.95	15.395	15.806	15.931	16.662	9.5250	
		18.631	19.172	19.793	19.935	20.955	12.7000	
		20.587	21.128	21.749	21.891	22.911		
		24.117	24.658	25.279	25.421	26.441	15.8750	
		27.877	28.418	29.039	29.181	30.201	22.2250	
		30.291	30.931	31.77	31.95	33.249	25.4000	
		34.939	35.579	36.418	36.598	37.897	28.5750	
		38.952	39.592	40.431	40.611	41.910	31.7500	
		44.845	45.485	46.324	46.504	47.803	38.1000	
		50.788	51.428	52.267	52.447	53.746	44.4500	
		56.656	57.296	58.135	58.315	59.614	50.8000	
		62.752	63.392	64.231	64.448	65.710	57.1500	
		72.226	72.866	73.705	73.922	75.184		
		78.576	79.216	80.055	80.272	81.534	69.8500	
		84.926	85.566	86.405	86.622	87.884	76.2000	
		97.372	98.012	98.851	99.068	100.330	88.9000	
		110.072	110.712	111.551	111.768	113.030	101.6000	
		122.772	123.412	124.251	124.468	125.730	114.3000	
		135.472	136.112	136.951	137.168	138.430	127.0000	
		148.172	148.812	149.651	149.868	151.130	139.7000	
		160.872	161.512	162.351	162.568	163.830	152.4000	