

**Parker O-Ring Handbook****Dimensions From Standard Tooling**

The following are the anticipated dimensions and tolerances for O-rings from compounds having various shrinkage rates when molded in standard tooling (tooling produced to allow for the average or AN shrinkage rate). The shrinkage classes of a number of popular Parker Compounds are listed in Table 10-7.

Parker Size Number	Class -1				Class AN				Class I				Class II			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
2-001	.029	.004	.040	.003	.029	.004	.040	.003	.029	.004	.040	.004	.029	.004	.040	.004
2-002	.042	.004	.050		.042	.004	.050		.042	.004	.050		.042	.004	.049	
2-003	.056	.004	.060		.056	.004	.060		.056	.004	.060		.055	.004	.059	
2-004	.070	.005	.070		.070	.005	.070		.070	.005	.070		.069	.005	.069	
2-005	.102				.101				.100				.100			
2-006	.115				.114				.113				.113			
2-007	.146				.145				.144				.143			
2-008	.177				.176				.175				.174	▼		
2-009	.209				.208				.207				.206	.005		
2-010	.240				.239				.238				.236	.006		
2-011	.303				.301				.299	▼			.298			
2-012	.366				.364				.362	.005			.360	▼		
2-013	.429	▼			.426	▼			.423	.006			.421	.006		
2-014	.492	.005			.489	.005			.486	.006			.484	.006		
2-015	.554	.007			.551	.007			.548	.008			.545	.008		
2-016	.618	.007			.614	.009			.610	.010			.607	.010		
2-017	.680	.007			.676	.009			.672	.010			.669	.011		
2-018	.743	.008			.739	.009			.735	.010			.731	.011		
2-019	.806	.008			.801	.009			.796	.010			.792	.011		
2-020	.869	.009			.864	.009			.859	.010			.854	.011		
2-021	.932	.009			.926	.009			.920	.010			.916	.011		
2-022	.995	.010			.989	.010			.983	.011			.978	.012		
2-023	1.057	.010			1.051	.010			1.045	.011			1.039	.013		
2-024	1.121	.010			1.114	.010			1.107	.011			1.102	.013		
2-025	1.183	.011			1.176	.011			1.169	.012			1.163	.014		
2-026	1.246	.011			1.239	.011			1.232	.012			1.225	.014		
2-027	1.309	.011			1.301	.011			1.293	.013			1.287	.014		
2-028	1.372	.013			1.364	.013			1.356	.015			1.349	.016		
2-029	1.498	.014			1.489	.013			1.480	.015			1.473	.017		
2-030	1.624	.014			1.614	.013			1.604	.015			1.596	.017		
2-031	1.749	.015			1.739	.015			1.729	.017			1.720	.019		
2-032	1.875	.015			1.864	.015			1.853	.017			1.843	.019		
2-033	2.001	.018			1.989	.018			1.977	.020			1.967	.023		
2-034	2.127	.018			2.114	.018			2.101	.021			2.091	.023		
2-035	2.252	.018			2.239	.018			2.226	.021			2.214	.023		
2-036	2.378	.018			2.364	.018			2.350	.021			2.338	.024		
2-037	2.504	.018			2.489	.018			2.474	.021			2.462	.024		
2-038	2.630	.020			2.614	.020			2.598	.023			2.585	.026		
2-039	2.755	.020			2.739	.020			2.723	.023			2.709	.027		
2-040	2.881	.020			2.864	.020			2.847	.023			2.832	.027		
2-041	3.007	.024			2.989	.024			2.971	.028			2.956	.031		
2-042	3.258	.024			3.239	.024			3.220	.028			3.203	.032		
2-043	3.510	.024			3.489	.024			3.468	.028			3.451	.032		
2-044	3.761	.027			3.739	.027			3.717	.031			3.698	.036		
2-045	4.013	.027			3.989	.027			3.965	.032			3.945	.037		
2-046	4.264	.030			4.239	.030			4.214	.035			4.192	.040		
2-047	4.516	.030			4.489	.030			4.462	.035			4.440	.041		
2-048	4.767	.030			4.739	.030			4.711	.036			4.687	.041		
2-049	5.019	.037	▼	▼	4.989	.037	▼	▼	4.959	.043	▼	▼	4.934	.049	▼	▼
2-050	5.270	.037	.070	.003	5.239	.037	.070	.003	5.208	.043	.070	.004	5.181	.050	.069	.004

**Table 10-8: Dimensions From Standard Tooling**

**Parker O-Ring Handbook****Dimensions From Standard Tooling (Continued)**

Parker Size Number	Class III				Class IV				Class V				Class VI			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
2-001	.029	.004	.039	.004	.028	.004	.039	.004	.028	.004	.039	.004	.028	.004	.039	.004
2-002	.041	.004	.049		.041	.004	.049		.041	.004	.049		.041	.004	.048	
2-003	.055	.004	.059		.055	.004	.059		.055	.004	.058		.054	.004	.058	
2-004	.069	.005	.069		.069	.005	.069		.068	.005	.068		.068	.006	.068	
2-005	.099	.005			.099	.005			.098	.006			.098	.006		
2-006	.112	.005			.112	.006			.111	.006			.110	.006		
2-007	.143	.006			.142	.006			.141	.006			.141	.006		
2-008	.173	.006			.172	.006			.171	.006			.171	.006		
2-009	.205	.006			.204	.006			.203	.006			.202	.006		
2-010	.235	.006			.234	.006			.233	.006			.232	.007		
2-011	.296	.006			.295	.006			.293	.007			.292	.007		
2-012	.358	.006			.356	.007			.355	.007			.353	.008		
2-013	.419	.007			.417	.007			.415	.008			.413	.008		
2-014	.481	.007			.479	.007			.476	.008			.474	.009		
2-015	.542	.009			.539	.010			.537	.010			.534	.011		
2-016	.604	.011			.601	.012			.598	.013			.595	.013		
2-017	.665	.011			.662	.012			.658	.013			.655	.014		
2-018	.727	.012			.723	.013			.720	.013			.716	.014		
2-019	.788	.012			.784	.013			.780	.014			.776	.015		
2-020	.850	.012			.846	.013			.842	.014			.837	.015		
2-021	.911	.012			.907	.013			.902	.015			.897	.016		
2-022	.973	.014			.968	.015			.963	.016			.958	.017		
2-023	1.034	.014			1.029	.015			1.024	.016			1.018	.018		
2-024	1.096	.014			1.091	.015			1.085	.017			1.079	.018		
2-025	1.157	.015			1.151	.017			1.145	.018			1.140	.019		
2-026	1.219	.015			1.213	.017			1.207	.018			1.201	.020		
2-027	1.280	.016			1.274	.017			1.267	.019			1.261	.020		
2-028	1.342	.018			1.335	.020			1.329	.021			1.322	.023		
2-029	1.465	.018			1.458	.020			1.450	.022			1.443	.024		
2-030	1.588	.019			1.580	.021			1.572	.023			1.564	.025		
2-031	1.711	.021			1.702	.023			1.694	.025			1.685	.028		
2-032	1.834	.022			1.825	.024			1.816	.026			1.806	.028		
2-033	1.957	.025			1.947	.028			1.937	.030			1.927	.032		
2-034	2.080	.026			2.070	.028			2.059	.031			2.048	.033		
2-035	2.203	.026			2.192	.029			2.181	.031			2.170	.034		
2-036	2.326	.027			2.314	.029			2.303	.032			2.291	.035		
2-037	2.449	.027			2.437	.030			2.424	.033			2.412	.036		
2-038	2.572	.029			2.559	.033			2.546	.036			2.533	.039		
2-039	2.695	.030			2.681	.033			2.668	.036			2.654	.040		
2-040	2.818	.030			2.804	.034			2.790	.037			2.775	.041		
2-041	2.941	.035			2.926	.038			2.911	.042			2.896	.046		
2-042	3.187	.036			3.171	.040			3.155	.043			3.139	.047		
2-043	3.433	.037			3.416	.041			3.398	.045			3.381	.049		
2-044	3.679	.040			3.660	.045			3.642	.049			3.623	.054		
2-045	3.925	.041			3.905	.046			3.885	.051			3.865	.056		
2-046	4.171	.045			4.150	.050			4.129	.055			4.108	.060		
2-047	4.417	.046			4.395	.052			4.372	.057			4.350	.062		
2-048	4.663	.047			4.639	.053			4.616	.058			4.592	.064		
2-049	4.909	.055	▼	▼	4.884	.061	▼	▼	4.859	.067	▼	▼	4.834	.073	▼	▼
2-050	5.155	.056	.069	.004	5.129	.062	.069	.004	5.103	.068	.068	.004	5.077	.075	.068	.004

**Table 10-8: Dimensions From Standard Tooling (Continued)**

## Parker O-Ring Handbook

## Dimensions From Standard Tooling (Continued)

Parker Size Number	Class -1				Class AN				Class I				Class II			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
2-102	.049	.005	.104	.003	.049	.005	.103	.003	.049	.005	.102	.004	.048	.005	.102	.004
2-103	.081	↓	↓	↓	.081	↓	↓	↓	.081	↓	↓	↓	.080	↓	↓	↓
2-104	.113	↓	↓	↓	.112	↓	↓	↓	.111	↓	↓	↓	.111	↓	↓	↓
2-105	.144	↓	↓	↓	.143	↓	↓	↓	.142	↓	↓	↓	.141	↓	↓	↓
2-106	.175	↓	↓	↓	.174	↓	↓	↓	.173	↓	↓	↓	.172	↓	↓	↓
2-107	.207	↓	↓	↓	.206	↓	↓	↓	.205	↓	↓	↓	.204	↓	↓	↓
2-108	.238	↓	↓	↓	.237	↓	↓	↓	.236	↓	↓	↓	.234	.006	↓	↓
2-109	.301	↓	↓	↓	.299	↓	↓	↓	.297	↓	↓	↓	.296	.006	↓	↓
2-110	.364	↓	↓	↓	.362	↓	↓	↓	.360	↓	↓	↓	.358	.006	↓	↓
2-111	.427	↓	↓	↓	.424	↓	↓	↓	.421	.006	↓	↓	.419	.006	↓	↓
2-112	.490	.005	↓	↓	.487	↓	↓	↓	.484	.007	↓	↓	.482	.006	↓	↓
2-113	.552	.007	↓	↓	.549	.007	↓	↓	.546	.008	↓	↓	.543	.008	↓	↓
2-114	.616	.009	↓	↓	.612	.009	↓	↓	.608	.010	↓	↓	.605	.010	↓	↓
2-115	.678	.009	↓	↓	.674	.009	↓	↓	.670	.010	↓	↓	.667	.011	↓	↓
2-116	.741	.009	↓	↓	.737	.009	↓	↓	.733	.010	↓	↓	.729	.011	↓	↓
2-117	.804	.010	↓	↓	.799	.010	↓	↓	.794	.011	↓	↓	.790	.012	↓	↓
2-118	.867	.010	↓	↓	.862	.010	↓	↓	.857	.011	↓	↓	.853	.012	↓	↓
2-119	.930	.010	↓	↓	.924	.010	↓	↓	.918	.011	↓	↓	.914	.012	↓	↓
2-120	.993	.010	↓	↓	.987	.010	↓	↓	.981	.011	↓	↓	.976	.012	↓	↓
2-121	1.055	.010	↓	↓	1.049	.010	↓	↓	1.043	.011	↓	↓	1.037	.013	↓	↓
2-122	1.119	.010	↓	↓	1.112	.010	↓	↓	1.105	.011	↓	↓	1.100	.013	↓	↓
2-123	1.181	.012	↓	↓	1.174	.012	↓	↓	1.167	.013	↓	↓	1.161	.015	↓	↓
2-124	1.244	.012	↓	↓	1.237	.012	↓	↓	1.230	.013	↓	↓	1.223	.015	↓	↓
2-125	1.307	.012	↓	↓	1.299	.012	↓	↓	1.291	.014	↓	↓	1.285	.015	↓	↓
2-126	1.370	.012	↓	↓	1.362	.012	↓	↓	1.354	.014	↓	↓	1.347	.015	↓	↓
2-127	1.433	.012	↓	↓	1.424	.012	↓	↓	1.415	.014	↓	↓	1.408	.015	↓	↓
2-128	1.496	.012	↓	↓	1.487	.012	↓	↓	1.478	.014	↓	↓	1.471	.016	↓	↓
2-129	1.558	.015	↓	↓	1.549	.015	↓	↓	1.540	.017	↓	↓	1.532	.019	↓	↓
2-130	1.622	.015	↓	↓	1.612	.015	↓	↓	1.602	.017	↓	↓	1.594	.019	↓	↓
2-131	1.684	.015	↓	↓	1.674	.015	↓	↓	1.664	.017	↓	↓	1.656	.019	↓	↓
2-132	1.747	.015	↓	↓	1.737	.015	↓	↓	1.727	.017	↓	↓	1.718	.019	↓	↓
2-133	1.810	.015	↓	↓	1.799	.015	↓	↓	1.788	.017	↓	↓	1.779	.019	↓	↓
2-134	1.873	.015	↓	↓	1.862	.015	↓	↓	1.851	.017	↓	↓	1.842	.019	↓	↓
2-135	1.937	.017	↓	↓	1.925	.017	↓	↓	1.913	.019	↓	↓	1.904	.022	↓	↓
2-136	1.999	.017	↓	↓	1.987	.017	↓	↓	1.975	.019	↓	↓	1.965	.022	↓	↓
2-137	2.062	.017	↓	↓	2.050	.017	↓	↓	2.038	.020	↓	↓	2.027	.022	↓	↓
2-138	2.125	.017	↓	↓	2.112	.017	↓	↓	2.099	.020	↓	↓	2.089	.022	↓	↓
2-139	2.188	.017	↓	↓	2.175	.017	↓	↓	2.162	.020	↓	↓	2.151	.022	↓	↓
2-140	2.250	.017	↓	↓	2.237	.017	↓	↓	2.224	.020	↓	↓	2.212	.022	↓	↓
2-141	2.314	.020	↓	↓	2.300	.020	↓	↓	2.286	.023	↓	↓	2.275	.026	↓	↓
2-142	2.376	.020	↓	↓	2.362	.020	↓	↓	2.348	.023	↓	↓	2.236	.026	↓	↓
2-143	2.440	.020	↓	↓	2.425	.020	↓	↓	2.410	.023	↓	↓	2.398	.026	↓	↓
2-144	2.502	.020	↓	↓	2.487	.020	↓	↓	2.472	.023	↓	↓	2.460	.026	↓	↓
2-145	2.565	.020	↓	↓	2.550	.020	↓	↓	2.535	.023	↓	↓	2.522	.026	↓	↓
2-146	2.628	.020	↓	↓	2.612	.020	↓	↓	2.596	.023	↓	↓	2.583	.026	↓	↓
2-147	2.691	.022	↓	↓	2.675	.022	↓	↓	2.659	.025	↓	↓	2.646	.028	↓	↓
2-148	2.753	.022	↓	↓	2.737	.022	↓	↓	2.721	.025	↓	↓	2.707	.029	↓	↓
2-149	2.817	.022	↓	↓	2.800	.022	↓	↓	2.783	.025	↓	↓	2.769	.029	↓	↓
2-150	2.879	.022	↓	↓	2.862	.022	↓	↓	2.845	.025	↓	↓	2.831	.029	↓	↓
2-151	3.005	.024	↓	↓	2.987	.024	↓	↓	2.969	.028	↓	↓	2.954	.031	↓	↓
2-152	3.256	.024	↓	↓	3.237	.024	↓	↓	3.218	.028	↓	↓	3.201	.032	↓	↓
2-153	3.508	.024	↓	↓	3.487	.024	↓	↓	3.466	.028	↓	↓	3.449	.032	↓	↓
2-154	3.759	.028	↓	↓	3.737	.028	↓	↓	3.715	.032	↓	↓	3.969	.037	↓	↓
2-155	4.011	.028	↓	↓	3.987	.028	↓	↓	3.963	.033	↓	↓	3.943	.038	↓	↓
2-156	4.262	.030	.104	.003	4.237	.030	.103	.003	4.212	.035	.102	.004	4.190	.040	.102	.004

Table 10-8: Dimensions From Standard Tooling (Continued)

## Parker O-Ring Handbook

## Dimensions From Standard Tooling (Continued)

Parker Size Number	Class III				Class IV				Class V				Class VI			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
2-102	.048	.005	.101	.004	.048	.005	.101	.004	.048	.005	.100	.005	.047	.005	.100	.005
2-103	.080	.005			.079	.005			.079	.005			.078	.006		
2-104	.110	.005			.110	.006			.109	.006			.109	.006		
2-105	.141	.006			.140	.006			.139	.006			.139	.006		
2-106	.171	.006			.170	.006			.169	.006			.169	.006		
2-107	.203	.006			.202	.006			.201	.006			.200	.006		
2-108	.233	.006			.232	.006			.231	.006			.230	.007		
2-109	.294	.006			.293	.006			.291	.007			.290	.007		
2-110	.356	.006			.354	.007			.353	.007			.351	.008		
2-111	.417	.007			.415	.007			.413	.008			.411	.008		
2-112	.479	.007			.477	.007			.474	.008			.472	.009		
2-113	.540	.009			.537	.010			.535	.011			.532	.011		
2-114	.602	.011			.599	.012			.596	.013			.593	.013		
2-115	.663	.011			.660	.012			.656	.013			.653	.014		
2-116	.725	.012			.722	.013			.718	.013			.714	.014		
2-117	.786	.013			.782	.014			.778	.015			.774	.016		
2-118	.848	.013			.844	.014			.840	.015			.835	.016		
2-119	.909	.013			.905	.014			.900	.016			.895	.017		
2-120	.971	.014			.966	.015			.961	.016			.956	.017		
2-121	1.032	.014			1.027	.015			1.022	.016			1.016	.018		
2-122	1.094	.014			1.089	.015			1.083	.017			1.078	.018		
2-123	1.155	.016			1.149	.018			1.143	.019			1.138	.020		
2-124	1.217	.016			1.211	.018			1.205	.019			1.199	.021		
2-125	1.278	.017			1.272	.018			1.265	.020			1.259	.021		
2-126	1.340	.017			1.333	.019			1.327	.020			1.320	.022		
2-127	1.401	.017			1.394	.019			1.387	.021			1.380	.022		
2-128	1.463	.017			1.456	.019			1.448	.021			1.441	.023		
2-129	1.524	.021			1.516	.022			1.509	.024			1.501	.026		
2-130	1.586	.021			1.578	.023			1.570	.025			1.562	.027		
2-131	1.647	.021			1.639	.023			1.630	.025			1.622	.027		
2-132	1.709	.021			1.701	.023			1.692	.025			1.683	.028		
2-133	1.770	.021			1.761	.024			1.752	.026			1.743	.028		
2-134	1.832	.022			1.823	.024			1.814	.026			1.804	.028		
2-135	1.894	.024			1.885	.026			1.875	.029			1.865	.031		
2-136	1.955	.024			1.945	.027			1.935	.029			1.925	.031		
2-137	2.017	.024			2.007	.027			1.997	.029			1.986	.032		
2-138	2.078	.025			2.068	.027			2.057	.030			2.047	.032		
2-139	2.140	.025			2.129	.027			2.118	.030			2.108	.033		
2-140	2.201	.025			2.190	.028			2.179	.030			2.168	.033		
2-141	2.263	.028			2.252	.031			2.240	.034			2.229	.037		
2-142	2.324	.029			2.312	.031			2.301	.034			2.289	.037		
2-143	2.386	.029			2.374	.032			2.362	.035			2.350	.037		
2-144	2.447	.029			2.435	.032			2.422	.035			2.410	.038		
2-145	2.509	.029			2.496	.032			2.484	.035			2.471	.038		
2-146	2.570	.029			2.557	.033			2.544	.036			2.531	.039		
2-147	2.632	.032			2.619	.035			2.605	.038			2.592	.041		
2-148	2.693	.032			2.680	.035			2.666	.038			2.652	.042		
2-149	2.755	.032			2.741	.035			2.727	.039			2.713	.042		
2-150	2.816	.032			2.802	.036			2.788	.039			2.773	.043		
2-151	2.939	.035			2.924	.038			2.909	.042			2.894	.046		
2-152	3.185	.036			3.169	.040			3.153	.043			3.137	.047		
2-153	3.431	.037			3.414	.041			3.396	.045			3.379	.049		
2-154	3.677	.041			3.659	.046			3.640	.050			3.621	.055		
2-155	3.923	.042	▼	▼	3.903	.047	▼	▼	3.883	.052	▼	▼	3.863	.057	▼	▼
2-156	4.169	.045	.101	.004	4.148	.050	.101	.004	4.127	.055	.100	.005	4.106	.061	.100	.005

Table 10-8: Dimensions From Standard Tooling (Continued)

## Parker O-Ring Handbook

## Dimensions From Standard Tooling (Continued)

Parker Size Number	Class -1				Class AN				Class I				Class II			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
2-157	4.514	.030	.104	.003	4.487	.030	.103	.003	4.460	.035	.102	.004	4.438	.041	.102	.004
2-158	4.765	.030			4.737	.030			4.709	.036			4.685	.041		
2-159	5.017	.035			4.987	.035			4.957	.041			4.932	.047		
2-160	5.268	.035			5.237	.035			5.206	.041			5.179	.048		
2-161	5.520	.035			5.487	.035			5.454	.042			5.427	.048		
2-162	5.771	.035			5.737	.035			5.703	.042			5.674	.049		
2-163	6.023	.035			5.987	.035			5.951	.042			5.921	.049		
2-164	6.274	.040			6.237	.040			6.200	.047			6.168	.055		
2-165	6.526	.040			6.487	.040			6.448	.048			6.416	.056		
2-166	6.777	.040			6.737	.040			6.697	.048			6.663	.056		
2-167	7.029	.040			6.987	.040			6.945	.048			6.910	.057		
2-168	7.280	.045			7.237	.045			7.194	.054			7.157	.062		
2-169	7.532	.045			7.487	.045			7.442	.054			7.405	.063		
2-170	7.783	.045			7.737	.045			7.691	.054			7.652	.064		
2-171	8.035	.045			7.987	.045			7.939	.055			7.899	.064		
2-172	8.286	.050			8.237	.050			8.188	.060			8.146	.070		
2-173	8.538	.050			8.487	.050			8.436	.060			8.394	.070		
2-174	8.789	.050			8.737	.050			8.685	.060			8.641	.071		
2-175	9.041	.050			8.987	.050			8.933	.061			8.888	.072		
2-176	8.292	.055			9.237	.055			9.182	.066			9.135	.077		
2-177	9.544	.055			9.487	.055			9.430	.066			9.383	.078		
2-178	9.795	.055	▼	▼	9.737	.055	▼	▼	9.679	.067	▼	▼	9.630	.078	▼	▼
2-201	.172	.005	.140	.004	.171	.005	.139	.004	.170	.005	.138	.005	.169	.005	.137	.005
2-202	.235	.005			.234	.005			.233	.005			.231	.006		
2-203	.298	.005			.296	.005			.294	.005			.293	.006		
2-204	.361	.005			.359	.005			.357	.005			.355	.006		
2-205	.424	.005			.421	.005			.418	.006			.416	.006		
2-206	.487	.005			.484	.005			.481	.006			.479	.007		
2-207	.549	.007			.546	.007			.543	.008			.540	.008		
2-208	.613	.009			.609	.009			.605	.010			.602	.010		
2-209	.675	.009			.671	.009			.667	.010			.664	.011		
2-210	.738	.010			.734	.010			.730	.011			.726	.012		
2-211	.801	.010			.796	.010			.791	.011			.787	.012		
2-212	.864	.010			.859	.010			.854	.011			.850	.012		
2-213	.927	.010			.921	.010			.915	.011			.911	.012		
2-214	.990	.010			.984	.010			.978	.011			.973	.012		
2-215	1.052	.010			1.046	.010			1.040	.011			1.034	.013		
2-216	1.116	.012			1.109	.012			1.102	.013			1.097	.015		
2-217	1.178	.012			1.171	.012			1.164	.013			1.158	.015		
2-218	1.241	.012			1.234	.012			1.227	.013			1.220	.015		
2-219	1.304	.012			1.296	.012			1.288	.014			1.282	.015		
2-220	1.367	.012			1.359	.012			1.351	.014			1.344	.015		
2-221	1.430	.012			1.421	.012			1.412	.014			1.405	.015		
2-222	1.493	.015			1.484	.015			1.475	.017			1.468	.019		
2-223	1.619	.015			1.609	.015			1.599	.017			1.591	.019		
2-224	1.744	.015			1.734	.015			1.724	.017			1.715	.019		
2-225	1.870	.018			1.859	.018			1.848	.020			1.839	.022		
2-226	1.996	.018			1.984	.018			1.972	.020			1.962	.023		
2-227	2.122	.018			2.109	.018			2.096	.021			2.086	.023		
2-228	2.247	.020			2.234	.020			2.221	.023			2.209	.025		
2-229	2.373	.020			2.359	.020			2.345	.023			2.333	.026		
2-230	2.499	.020			2.484	.020			2.469	.023			2.457	.026		
2-231	2.625	.020			2.609	.020			2.593	.023			2.580	.026		
2-232	2.750	.024	▼	▼	2.734	.024	▼	▼	2.718	.027	▼	▼	2.704	.031	▼	▼
2-233	2.876	.024	.140	.004	2.859	.024	.139	.004	2.842	.027	.138	.005	2.828	.031	.137	.005

Table 10-8: Dimensions From Standard Tooling (Continued)

**Parker O-Ring Handbook**

**Dimensions From Standard Tooling (Continued)**

Parker Size Number	Class III				Class IV				Class V				Class VI			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
2-157	4.416	.046	.101	.004	4.393	.052	.101	.004	4.370	.057	.100	.005	4.348	.062	.100	.005
2-158	4.661	.047			4.638	.053			4.614	.058			4.590	.064		
2-159	4.907	.053			4.882	.059			4.857	.065			4.832	.071		
2-160	5.153	.054			5.127	.060			5.101	.066			5.075	.073		
2-161	5.399	.055			5.372	.061			5.344	.068			5.317	.075		
2-162	5.645	.056			5.617	.063			5.588	.069			5.559	.076		
2-163	5.891	.057			5.861	.064			5.831	.071			5.801	.078		
2-164	6.137	.062			6.106	.070			6.075	.077			6.044	.085		
2-165	6.390	.063			6.351	.071			6.318	.079			6.286	.087		
2-166	6.629	.064			6.596	.072			6.562	.080			6.528	.089		
2-167	6.875	.065			6.840	.074			6.805	.082			6.770	.090		
2-168	7.121	.071			7.085	.080			7.049	.088			7.013	.097		
2-169	7.367	.072			7.330	.081			7.292	.090			7.255	.099		
2-170	7.613	.073			7.575	.082			7.536	.091			7.497	.101		
2-171	7.859	.074			7.819	.083			7.779	.093			7.739	.103		
2-172	8.105	.080			8.064	.090			8.023	.099			7.982	.109		
2-173	8.351	.081			8.309	.091			8.266	.101			8.224	.111		
2-174	8.597	.081			8.554	.092			8.510	.102			8.466	.113		
2-175	8.843	.082			8.798	.093			8.753	.104			8.708	.115		
2-176	9.089	.088			9.043	.099			8.997	.110			8.951	.122		
2-177	9.335	.089			9.288	.101			9.240	.112			9.193	.123		
2-178	9.581	.090	▼	▼	9.533	.102	▼	▼	9.484	.113	▼	▼	9.435	.125	▼	▼
2-201	.168	.006	.137	.005	.167	.006	.136	.006	.167	.006	.135	.006	.166	.006	.135	.006
2-202	.230	.006			.229	.006			.228	.006			.227	.007		
2-203	.291	.006			.290	.006			.288	.007			.287	.007		
2-204	.353	.006			.351	.007			.350	.007			.348	.008		
2-205	.414	.007			.412	.007			.410	.008			.408	.008		
2-206	.476	.007			.474	.007			.471	.008			.469	.008		
2-207	.537	.009			.535	.010			.532	.010			.529	.011		
2-208	.599	.011			.596	.012			.593	.013			.590	.013		
2-209	.660	.011			.657	.012			.654	.013			.650	.014		
2-210	.722	.013			.719	.014			.715	.014			.711	.015		
2-211	.783	.013			.779	.014			.775	.015			.771	.016		
2-212	.845	.013			.841	.014			.837	.015			.832	.016		
2-213	.906	.013			.902	.014			.897	.016			.892	.017		
2-214	.968	.014			.963	.015			.958	.016			.953	.017		
2-215	1.029	.014			1.024	.015			1.019	.016			1.014	.018		
2-216	1.091	.016			1.086	.017			1.080	.019			1.075	.020		
2-217	1.152	.016			1.146	.018			1.141	.019			1.135	.020		
2-218	1.214	.016			1.208	.018			1.202	.019			1.196	.021		
2-219	1.275	.017			1.269	.018			1.262	.020			1.256	.021		
2-220	1.337	.017			1.330	.019			1.324	.020			1.317	.022		
2-221	1.398	.017			1.391	.019			1.384	.021			1.377	.022		
2-222	1.460	.020			1.453	.022			1.445	.024			1.438	.026		
2-223	1.583	.021			1.575	.023			1.567	.025			1.559	.027		
2-224	1.706	.021			1.698	.023			1.689	.025			1.680	.027		
2-225	1.829	.025			1.820	.027			1.811	.029			1.801	.031		
2-226	1.952	.025			1.942	.028			1.932	.030			1.922	.032		
2-227	2.075	.026			2.065	.028			2.054	.031			2.044	.033		
2-228	2.198	.028			2.187	.031			2.176	.033			2.165	.036		
2-229	2.321	.028			2.309	.031			2.298	.034			2.286	.037		
2-230	2.444	.029			2.432	.032			2.419	.035			2.407	.038		
2-231	2.567	.029			2.554	.033			2.541	.036			2.528	.039		
2-232	2.690	.034	▼	▼	2.677	.037	▼	▼	2.663	.040	▼	▼	2.649	.044	▼	▼
2-233	2.813	.034	.137	.005	2.799	.038	.136	.006	2.785	.041	.135	.006	2.770	.045	.135	.006

**Table 10-8: Dimensions From Standard Tooling (Continued)**

**Parker O-Ring Handbook**

**Dimensions From Standard Tooling (Continued)**

Parker Size Number	Class -1				Class AN				Class I				Class II			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
2-234	3.002	.024	.140	.004	2.984	.024	.139	.004	2.966	.028	.138	.005	2.951	.031	.137	.005
2-235	3.128	.024			3.109	.024			3.090	.028			3.075	.031		
2-236	3.253	.024			3.234	.024			3.215	.028			3.198	.032		
2-237	3.379	.024			3.359	.024			3.339	.028			3.322	.032		
2-238	3.505	.024			3.484	.024			3.463	.028			3.446	.032		
2-239	3.631	.028			3.609	.028			3.587	.032			3.569	.037		
2-240	3.756	.028			3.734	.028			3.712	.032			3.693	.037		
2-241	3.882	.028			3.859	.028			3.836	.033			3.817	.037		
2-242	4.008	.028			3.984	.028			3.960	.033			3.940	.038		
2-243	4.134	.028			4.109	.028			4.084	.033			4.064	.038		
2-244	4.259	.030			4.234	.030			4.209	.035			4.187	.040		
2-245	4.385	.030			4.359	.030			4.333	.035			4.311	.040		
2-246	4.511	.030			4.484	.030			4.457	.035			4.435	.041		
2-247	4.637	.030			4.609	.030			4.581	.036			4.558	.041		
2-248	4.762	.030			4.734	.030			4.706	.036			4.682	.041		
2-249	4.888	.035			4.859	.035			4.830	.041			4.806	.047		
2-250	5.014	.035			4.984	.035			4.954	.041			4.929	.047		
2-251	5.140	.035			5.109	.035			5.078	.041			5.053	.047		
2-252	5.265	.035			5.234	.035			5.203	.041			5.176	.048		
2-253	5.391	.035			5.359	.035			5.327	.041			5.300	.048		
2-254	5.517	.035			5.484	.035			5.451	.042			5.424	.048		
2-255	5.643	.035			5.609	.035			5.575	.042			5.547	.048		
2-256	5.768	.035			5.734	.035			5.700	.042			5.671	.049		
2-257	5.894	.035			5.859	.035			5.824	.042			5.795	.049		
2-258	6.020	.035			5.984	.035			5.948	.042			5.918	.049		
2-259	6.271	.040			6.234	.040			6.197	.047			6.165	.055		
2-260	6.523	.040			6.484	.040			6.445	.048			6.413	.056		
2-261	6.774	.040			6.734	.040			6.694	.048			6.660	.056		
2-262	7.026	.040			6.984	.040			6.942	.048			6.907	.057		
2-263	7.277	.045			7.234	.045			7.191	.054			7.154	.062		
2-264	7.529	.045			7.484	.045			7.439	.054			7.402	.063		
2-265	7.780	.045			7.734	.045			7.688	.054			7.649	.064		
2-266	8.032	.045			7.984	.045			7.936	.055			7.896	.064		
2-267	8.283	.050			8.234	.050			8.185	.060			8.143	.070		
2-268	8.535	.050			8.484	.050			8.433	.060			8.391	.070		
2-269	8.786	.050			8.734	.050			8.682	.060			8.638	.071		
2-270	9.038	.050			8.984	.050			8.930	.061			8.885	.072		
2-271	9.289	.055			9.234	.055			9.179	.066			9.132	.077		
2-272	9.541	.055			9.484	.055			9.427	.066			9.380	.078		
2-273	9.792	.055			9.734	.055			9.676	.067			9.627	.078		
2-274	10.044	.055			9.984	.055			9.924	.067			9.874	.079		
2-275	10.547	.055			10.484	.055			10.421	.068			10.369	.080		
2-276	11.050	.065			10.984	.065			10.918	.078			10.863	.091		
2-277	11.553	.065			11.484	.065			11.415	.079			11.358	.093		
2-278	12.056	.065			11.984	.065			11.912	.079			11.852	.094		
2-279	13.062	.065			12.984	.065			12.906	.081			12.841	.096		
2-280	14.068	.065			13.984	.065			13.900	.082			13.830	.099		
2-281	15.074	.065			14.984	.065			14.894	.083			14.819	.101		
2-282	16.051	.075			15.955	.075			15.859	.095			15.779	.113		
2-283	17.057	.080			16.955	.080			16.853	.100			16.768	.121		
2-284	18.063	.085	↓	↓	17.955	.085	↓	↓	17.847	.107	↓	↓	17.757	.128	↓	↓
2-309	.414	.005	.211	.005	.412	.005	.210	.005	.410	.005	.209	.006	.407	.006	.208	.007
2-310	.478	.005	↓	↓	.475	.005	↓	↓	.472	.006	↓	↓	.470	.006	↓	↓
2-311	.540	.007	↓	↓	.537	.007	↓	↓	.534	.008	↓	↓	.531	.008	↓	↓
2-312	.604	.009	.211	.005	.600	.009	.210	.005	.596	.010	.209	.006	.593	.010	.208	.007

**Table 10-8: Dimensions From Standard Tooling (Continued)**

**Parker O-Ring Handbook**

**Dimensions From Standard Tooling (Continued)**

Parker Size Number	Class III				Class IV				Class V				Class VI			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
2-234	2.936	.035	.137	.005	2.921	.038	.136	.006	2.906	.042	.135	.006	2.891	.045	.135	.006
2-235	3.059	.035			3.044	.039			3.028	.043			3.013	.046		
2-236	3.182	.036			3.166	.040			3.150	.043			3.134	.047		
2-237	3.305	.036			3.288	.040			3.272	.044			3.255	.048		
2-238	3.428	.037			3.411	.041			3.393	.045			3.376	.049		
2-239	3.551	.041			3.533	.045			3.515	.050			3.497	.054		
2-240	3.674	.041			3.656	.046			3.637	.050			3.618	.055		
2-241	3.797	.042			3.778	.047			3.759	.051			3.739	.056		
2-242	3.920	.042			3.900	.047			3.880	.052			3.860	.057		
2-243	4.043	.043			4.023	.048			4.002	.053			3.982	.058		
2-244	4.166	.045			4.145	.050			4.124	.055			4.103	.060		
2-245	4.289	.046			4.267	.051			4.245	.056			4.224	.061		
2-246	4.412	.046			4.390	.052			4.367	.057			4.345	.062		
2-247	4.535	.047			4.512	.052			4.489	.058			4.466	.063		
2-248	4.658	.047			4.635	.053			4.611	.058			4.587	.064		
2-249	4.781	.052			4.757	.058			4.733	.064			4.708	.070		
2-250	4.904	.053			4.879	.059			4.854	.065			4.829	.071		
2-251	5.027	.053			5.002	.060			4.976	.066			4.951	.072		
2-252	5.150	.054			5.124	.060			5.098	.066			5.072	.073		
2-253	5.273	.054			5.246	.061			5.220	.067			5.193	.074		
2-254	5.396	.055			5.369	.061			5.341	.068			5.314	.074		
2-255	5.519	.055			5.491	.062			5.463	.069			5.435	.075		
2-256	5.642	.056			5.614	.063			5.585	.069			5.556	.076		
2-257	5.765	.056			5.736	.063			5.707	.070			5.677	.077		
2-258	5.888	.057			5.858	.064			5.828	.071			5.798	.078		
2-259	6.134	.062			6.103	.070			6.072	.077			6.041	.085		
2-260	6.380	.063			6.348	.071			6.315	.079			6.283	.087		
2-261	6.626	.064			6.593	.072			6.559	.080			6.525	.088		
2-262	6.872	.065			6.837	.074			6.802	.082			6.767	.090		
2-263	7.118	.071			7.082	.080			7.046	.088			7.010	.097		
2-264	7.364	.072			7.327	.081			7.289	.090			7.252	.099		
2-265	7.610	.073			7.572	.082			7.533	.091			7.494	.101		
2-266	7.856	.074			7.816	.083			7.776	.093			7.736	.102		
2-267	8.102	.080			8.061	.090			8.020	.099			7.979	.109		
2-268	8.348	.081			8.306	.091			8.263	.101			8.221	.111		
2-269	8.594	.081			8.551	.092			8.507	.102			8.463	.113		
2-270	8.840	.082			8.795	.093			8.750	.104			8.705	.115		
2-271	9.086	.088			9.040	.099			8.994	.110			8.948	.121		
2-272	9.332	.089			9.285	.101			9.237	.112			9.190	.123		
2-273	9.578	.090			9.530	.102			9.481	.113			9.432	.125		
2-274	9.824	.091			9.774	.103			9.724	.115			9.674	.127		
2-275	10.316	.093			10.264	.105			10.211	.118			10.159	.130		
2-276	10.808	.105			10.753	.118			10.698	.131			10.643	.144		
2-277	11.300	.106			11.243	.120			11.185	.134			11.128	.148		
2-278	11.792	.108			11.732	.123			11.672	.137			11.612	.151		
2-279	12.776	.112			12.711	.127			12.646	.143			12.581	.158		
2-280	13.760	.115			13.690	.132			13.620	.149			13.550	.166		
2-281	14.744	.119			14.669	.137			14.594	.155			14.519	.173		
2-282	15.700	.132			15.620	.152			15.540	.171			15.460	.190		
2-283	16.684	.141			16.599	.161			16.514	.182			16.429	.202		
2-284	17.668	.150			17.578	.171			17.488	.193			17.398	.214		
2-309	.405	.006	.207	.007	.403	.007	.206	.007	.401	.007	.205	.008	.399	.008	.203	.008
2-310	.467	.007			.465	.007			.463	.008			.460	.008		
2-311	.528	.009			.526	.010			.523	.010			.520	.011		
2-312	.590	.011	.207	.007	.587	.012	.206	.007	.584	.013	.205	.008	.581	.013	.203	.008

**Table 10-8: Dimensions From Standard Tooling (Continued)**

## Parker O-Ring Handbook

## Dimensions From Standard Tooling (Continued)

Parker Size Number	Class -1				Class AN				Class I				Class II			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
2-313	.666	.009	.211	.005	.662	.009	.210	.005	.658	.010	.209	.006	.655	.011	.208	.007
2-314	.729	.010			.725	.010			.721	.011			.717	.012		
2-315	.792	.010			.787	.010			.782	.011			.778	.012		
2-316	.855	.010			.850	.010			.845	.011			.841	.012		
2-317	.917	.010			.912	.010			.907	.011			.902	.012		
2-318	.981	.010			.975	.010			.969	.011			.964	.012		
2-319	1.043	.010			1.037	.010			1.031	.011			1.026	.012		
2-320	1.107	.012			1.100	.012			1.093	.013			1.088	.015		
2-321	1.169	.012			1.162	.012			1.155	.013			1.149	.015		
2-322	1.232	.012			1.225	.012			1.218	.013			1.212	.015		
2-323	1.295	.012			1.287	.012			1.279	.014			1.273	.015		
2-324	1.358	.012			1.350	.012			1.342	.014			1.335	.015		
2-325	1.484	.015			1.475	.015			1.466	.017			1.459	.019		
2-326	1.610	.015			1.600	.015			1.590	.017			1.582	.019		
2-327	1.735	.015			1.725	.015			1.715	.017			1.706	.019		
2-328	1.861	.015			1.850	.015			1.839	.017			1.830	.019		
2-329	1.987	.018			1.975	.018			1.963	.020			1.953	.023		
2-330	2.113	.018			2.100	.018			2.087	.021			2.077	.023		
2-331	2.238	.018			2.225	.018			2.212	.021			2.201	.023		
2-332	2.364	.018			2.350	.018			2.336	.021			2.324	.024		
2-333	2.490	.020			2.475	.020			2.460	.023			2.448	.026		
2-334	2.616	.020			2.600	.020			2.584	.023			2.571	.026		
2-335	2.741	.020			2.725	.020			2.709	.023			2.695	.027		
2-336	2.867	.020			2.850	.020			2.833	.023			2.819	.027		
2-337	2.993	.024			2.975	.024			2.957	.028			2.942	.031		
2-338	3.119	.024			3.100	.024			3.081	.028			3.066	.031		
2-339	3.244	.024			3.225	.024			3.206	.028			3.190	.032		
2-340	3.370	.024			3.350	.024			3.330	.028			3.313	.032		
2-341	3.496	.024			3.475	.024			3.454	.028			3.437	.032		
2-342	3.622	.028			3.600	.028			3.578	.032			3.560	.037		
2-343	3.747	.028			3.725	.028			3.703	.032			3.684	.037		
2-344	3.873	.028			3.850	.028			3.827	.033			3.808	.037		
2-345	3.999	.028			3.975	.028			3.951	.033			3.931	.038		
2-346	4.125	.028			4.100	.028			4.075	.033			4.055	.038		
2-347	4.250	.030			4.225	.030			4.200	.035			4.179	.040		
2-348	4.376	.030			4.350	.030			4.324	.035			4.302	.040		
2-349	4.502	.030			4.475	.030			4.448	.035			4.426	.041		
2-350	4.628	.030			4.600	.030			4.572	.036			4.549	.041		
2-351	4.753	.030			4.725	.030			4.697	.036			4.673	.046		
2-352	4.879	.030			4.850	.030			4.821	.036			4.797	.047		
2-353	5.005	.037			4.975	.037			4.945	.043			4.920	.049		
2-354	5.131	.037			5.100	.037			5.069	.043			5.044	.049		
2-355	5.256	.037			5.225	.037			5.194	.043			5.168	.050		
2-356	5.382	.037			5.350	.037			5.318	.043			5.291	.050		
2-357	5.508	.037			5.475	.037			5.442	.044			5.415	.050		
2-358	5.634	.037			5.600	.037			5.566	.044			5.538	.050		
2-359	5.759	.037			5.725	.037			5.691	.044			5.662	.051		
2-360	5.885	.037			5.850	.037			5.815	.044			5.786	.051		
2-361	6.011	.037			5.975	.037			5.939	.044			5.909	.051		
2-362	6.262	.040			6.225	.040			6.188	.047			6.157	.055		
2-363	6.514	.040			6.475	.040			6.436	.048			6.404	.056		
2-364	6.765	.040			6.725	.040			6.685	.048			6.651	.056		
2-365	7.017	.040			6.975	.040			6.933	.048			6.898	.057		
2-366	7.268	.045	▼	▼	7.225	.045	▼	▼	7.182	.054	▼	▼	7.146	.062	▼	▼
2-367	7.520	.045	.211	.005	7.475	.045	.210	.005	7.430	.054	.209	.006	7.393	.063	.208	.007

Table 10-8: Dimensions From Standard Tooling (Continued)

**Parker O-Ring Handbook**

**Dimensions From Standard Tooling (Continued)**

Parker Size Number	Class III				Class IV				Class V				Class VI			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
2-313	.651	.011	.207	.007	.648	.012	.206	.007	.645	.013	.205	.008	.641	.014	.203	.008
2-314	.713	.013			.710	.013			.706	.014			.703	.015		
2-315	.774	.013			.770	.014			.767	.015			.763	.016		
2-316	.836	.013			.832	.014			.828	.015			.824	.016		
2-317	.897	.013			.893	.014			.888	.015			.884	.017		
2-318	.959	.014			.955	.015			.950	.016			.945	.017		
2-319	1.020	.014			1.015	.015			1.010	.016			1.005	.017		
2-320	1.082	.016			1.077	.017			1.071	.019			1.066	.020		
2-321	1.143	.016			1.138	.018			1.132	.019			1.126	.020		
2-322	1.205	.016			1.199	.018			1.193	.019			1.187	.021		
2-323	1.266	.017			1.260	.018			1.254	.020			1.247	.021		
2-324	1.328	.017			1.322	.018			1.315	.020			1.308	.022		
2-325	1.451	.020			1.444	.022			1.437	.024			1.429	.026		
2-326	1.574	.021			1.566	.023			1.558	.025			1.550	.027		
2-327	1.697	.021			1.689	.023			1.680	.025			1.672	.027		
2-328	1.820	.022			1.811	.024			1.802	.026			1.793	.028		
2-329	1.943	.025			1.934	.027			1.924	.030			1.914	.032		
2-330	2.066	.026			2.056	.028			2.045	.031			2.035	.033		
2-331	2.189	.026			2.178	.029			2.167	.031			2.156	.034		
2-332	2.312	.026			2.301	.029			2.289	.032			2.277	.035		
2-333	2.435	.029			2.423	.032			2.411	.035			2.398	.038		
2-334	2.558	.029			2.545	.032			2.532	.036			2.519	.039		
2-335	2.681	.030			2.668	.033			2.654	.036			2.641	.040		
2-336	2.804	.030			2.790	.034			2.776	.037			2.762	.041		
2-337	2.927	.035			2.913	.038			2.898	.042			2.883	.045		
2-338	3.050	.035			3.035	.039			3.019	.043			3.004	.046		
2-339	3.173	.036			3.157	.039			3.141	.043			3.125	.047		
2-340	3.296	.036			3.280	.040			3.263	.044			3.246	.048		
2-341	3.419	.037			3.402	.041			3.385	.045			3.367	.049		
2-342	3.542	.041			3.524	.045			3.506	.050			3.488	.054		
2-343	3.665	.041			3.647	.046			3.628	.050			3.610	.054		
2-344	3.788	.042			3.769	.046			3.750	.051			3.731	.056		
2-345	3.911	.042			3.892	.047			3.872	.052			3.852	.057		
2-346	4.034	.043			4.014	.048			3.993	.053			3.973	.058		
2-347	4.157	.045			4.136	.050			4.115	.055			4.094	.060		
2-348	4.280	.046			4.259	.051			4.237	.056			4.215	.061		
2-349	4.403	.046			4.381	.051			4.359	.057			4.336	.062		
2-350	4.526	.047			4.503	.052			4.480	.058			4.457	.063		
2-351	4.649	.047			4.626	.053			4.602	.058			4.579	.064		
2-352	4.772	.047			4.748	.053			4.724	.059			4.700	.065		
2-353	4.895	.055			4.871	.061			4.846	.067			4.821	.073		
2-354	5.018	.055			4.993	.061			4.967	.068			4.942	.074		
2-355	5.141	.056			5.115	.062			5.089	.068			5.063	.075		
2-356	5.264	.056			5.238	.063			5.211	.069			5.184	.076		
2-357	5.387	.057			5.360	.063			5.333	.070			5.305	.076		
2-358	5.510	.057			5.482	.064			5.454	.071			5.426	.077		
2-359	5.633	.058			5.605	.064			5.576	.071			5.548	.078		
2-360	5.756	.058			5.727	.065			5.698	.072			5.669	.079		
2-361	5.879	.059			5.850	.066			5.820	.073			5.790	.080		
2-362	6.125	.062			6.094	.070			6.063	.077			6.032	.085		
2-363	6.371	.063			6.339	.071			6.307	.079			6.274	.087		
2-364	6.617	.064			6.584	.072			6.550	.080			6.517	.088		
2-365	6.863	.065			6.829	.073			6.794	.082			6.759	.090		
2-366	7.109	.071	▼	▼	7.073	.080	▼	▼	7.037	.088	▼	▼	7.001	.097	▼	▼
2-367	7.355	.072	.207	.007	7.318	.081	.206	.007	7.281	.090	.205	.008	7.243	.099	.203	.008

**Table 10-8: Dimensions From Standard Tooling (Continued)**

## Parker O-Ring Handbook

## Dimensions From Standard Tooling (Continued)

Parker Size Number	Class -1				Class AN				Class I				Class II			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
2-368	7.771	.045	.211	.005	7.725	.045	.210	.005	7.679	.054	.209	.006	7.640	.064	.208	.007
2-369	8.023	.045			7.975	.045			7.927	.055			7.887	.064		
2-370	8.274	.050			8.225	.050			8.176	.060			8.135	.070		
2-371	8.526	.050			8.475	.050			8.424	.060			8.382	.070		
2-372	8.777	.050			8.725	.050			8.673	.060			8.629	.071		
2-373	9.029	.050			8.975	.050			8.921	.061			8.876	.072		
2-374	9.280	.055			9.225	.055			9.170	.066			9.124	.077		
2-375	9.532	.055			9.475	.055			9.418	.066			9.371	.078		
2-376	9.783	.055			9.725	.055			9.667	.067			9.618	.078		
2-377	10.035	.055			9.975	.055			9.915	.067			9.865	.079		
2-378	10.538	.060			10.475	.060			10.412	.073			10.360	.085		
2-379	11.041	.060			10.975	.060			10.909	.073			10.854	.086		
2-380	11.544	.065			11.475	.065			11.406	.079			11.349	.093		
2-381	12.047	.065			11.975	.065			11.903	.079			11.843	.094		
2-382	13.053	.065			12.975	.065			12.897	.081			12.832	.096		
2-383	14.059	.070			13.975	.070			13.891	.087			13.821	.104		
2-384	15.065	.070			14.975	.070			14.885	.088			14.810	.106		
2-385	16.051	.075			15.955	.075			15.859	.094			15.779	.113		
2-386	17.057	.080			16.955	.080			16.853	.100			16.768	.121		
2-387	18.063	.085			17.955	.085			17.847	.107			17.757	.128		
2-388	19.069	.090			18.955	.090			18.841	.113			18.746	.135		
2-389	20.075	.095			19.955	.095			19.835	.119			19.731	.143		
2-390	21.081	.095			20.955	.095			20.829	.120			20.724	.145		
2-391	22.087	.100			21.956	.100			21.823	.126			21.713	.153		
2-392	23.078	.105			22.940	.105			22.802	.133			22.688	.160		
2-393	24.084	.110			23.940	.110			23.796	.139			23.677	.167		
2-394	25.090	.115			24.940	.115			24.790	.145			24.666	.175		
2-395	26.096	.120	▼	▼	25.940	.120	▼	▼	25.784	.151	▼	▼	25.655	.182	▼	▼
2-425	4.502	.033	.277	.006	4.475	.033	.275	.006	4.448	.038	.273	.007	4.426	.044	.272	.008
2-426	4.628	.033			4.600	.033			4.572	.039			4.549	.044		
2-427	4.753	.033			4.725	.033			4.697	.039			4.673	.044		
2-428	4.879	.033			4.850	.033			4.821	.039			4.797	.045		
2-429	5.005	.037			4.975	.037			4.945	.043			4.920	.049		
2-430	5.131	.037			5.100	.037			5.069	.043			5.044	.049		
2-431	5.256	.037			5.225	.037			5.194	.043			5.168	.050		
2-432	5.382	.037			5.350	.037			5.318	.043			5.291	.050		
2-433	5.508	.037			5.475	.037			5.442	.044			5.415	.050		
2-434	5.634	.037			5.600	.037			5.566	.044			5.538	.050		
2-435	5.759	.037			5.725	.037			5.691	.044			5.662	.050		
2-436	5.885	.037			5.850	.037			5.815	.044			5.786	.051		
2-437	6.011	.037			5.975	.037			5.939	.044			5.909	.051		
2-438	6.262	.040			6.225	.040			6.188	.047			6.157	.055		
2-439	6.514	.040			6.475	.040			6.436	.048			6.404	.056		
2-440	6.765	.040			6.725	.040			6.685	.048			6.651	.056		
2-441	7.017	.040			6.976	.040			6.933	.048			6.898	.057		
2-442	7.268	.045			7.225	.045			7.182	.054			7.146	.062		
2-443	7.520	.045			7.475	.045			7.430	.054			7.393	.063		
2-444	7.771	.045			7.725	.045			7.679	.054			7.640	.064		
2-445	8.023	.045			7.975	.045			7.927	.055			7.887	.064		
2-446	8.526	.055			8.475	.055			8.424	.065			8.382	.075		
2-447	9.029	.055			8.975	.055			8.921	.066			8.876	.077		
2-448	9.532	.055			9.475	.055			9.418	.066			9.371	.078		
2-449	10.035	.055			9.975	.055			9.915	.067			9.865	.079		
2-450	10.538	.060	▼	▼	10.475	.060	▼	▼	10.412	.073	▼	▼	10.360	.085	▼	▼
2-451	11.041	.060	.277	.006	10.975	.060	.275	.006	10.909	.073	.273	.007	10.854	.086	.272	.008

Table 10-8: Dimensions From Standard Tooling (Continued)

## Parker O-Ring Handbook

## Dimensions From Standard Tooling (Continued)

Parker Size Number	Class III				Class IV				Class V				Class VI			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
2-368	7.601	.073	.207	.007	7.563	.082	.206	.007	7.524	.091	.205	.008	7.486	.101	.203	.008
2-369	7.847	.074			7.808	.083			7.768	.093			7.728	.102		
2-370	8.093	.080			8.052	.089			8.011	.099			7.970	.109		
2-371	8.339	.081			8.297	.091			8.255	.101			8.212	.111		
2-372	8.585	.081			8.542	.092			8.498	.102			8.455	.133		
2-373	8.831	.082			8.787	.093			8.742	.104			8.697	.115		
2-374	9.077	.088			9.031	.099			8.985	.110			8.939	.121		
2-375	9.323	.089			9.276	.100			9.229	.112			9.181	.123		
2-376	9.569	.090			9.521	.102			9.472	.113			9.424	.125		
2-377	9.815	.091			9.766	.103			9.716	.115			9.666	.127		
2-378	10.307	.098			10.255	.110			10.203	.123			10.150	.135		
2-379	10.799	.100			10.745	.113			10.690	.126			10.635	.139		
2-380	11.291	.106			11.234	.120			11.177	.134			11.119	.148		
2-381	11.783	.108			11.724	.122			11.664	.137			11.604	.151		
2-382	12.767	.112			12.703	.127			12.638	.143			12.573	.158		
2-383	13.751	.120			13.682	.137			13.612	.154			13.542	.171		
2-384	14.735	.124			14.661	.142			14.586	.160			14.511	.178		
2-385	15.700	.132			15.620	.152			15.540	.171			15.460	.190		
2-386	16.684	.141			16.599	.161			16.514	.182			16.429	.202		
2-387	17.668	.150			17.578	.161			17.488	.193			17.398	.214		
2-388	18.652	.158			18.557	.181			18.462	.204			18.367	.226		
2-389	19.636	.167			19.536	.191			19.436	.216			19.336	.239		
2-390	20.620	.170			20.515	.196			20.410	.221			20.305	.246		
2-391	21.604	.179			21.494	.205			21.384	.232			21.274	.258		
2-392	22.573	.188			22.458	.215			22.343	.243			22.229	.270		
2-393	23.557	.196			23.437	.225			23.318	.254			23.198	.282		
2-934	24.541	.205	▼	▼	24.416	.235	▼	▼	24.292	.265	▼	▼	24.167	.295	▼	▼
2-395	25.525	.213	.207	.007	25.395	.244	.206	.007	25.266	.276	.205	.008	25.136	.307	.203	.008
2-425	4.403	.049	.271	.008	4.381	.051	.269	.009	4.359	.060	.268	.009	4.336	.065	.266	.009
2-426	4.526	.050			4.503	.055			4.480	.061			4.457	.066		
2-427	4.649	.050			4.626	.056			4.602	.061			4.579	.067		
2-428	4.772	.050			4.748	.056			4.724	.062			4.700	.068		
2-429	4.895	.055			4.871	.061			4.846	.067			4.821	.073		
2-430	5.018	.055			4.993	.061			4.967	.068			4.942	.074		
2-431	5.141	.056			5.115	.062			5.089	.068			5.063	.075		
2-432	5.264	.056			5.238	.063			5.211	.069			5.184	.076		
2-433	5.387	.057			5.360	.063			5.333	.070			5.305	.076		
2-434	5.510	.057			5.482	.064			5.454	.071			5.426	.077		
2-435	5.633	.058			5.605	.064			5.576	.071			5.548	.078		
2-436	5.756	.058			5.727	.065			5.698	.072			5.669	.079		
2-437	5.879	.059			5.850	.066			5.820	.073			5.790	.080		
2-438	6.125	.062			6.094	.070			6.063	.077			6.032	.085		
2-439	6.371	.063			6.339	.071			6.307	.079			6.274	.087		
2-440	6.617	.064			6.584	.072			6.550	.080			6.517	.088		
2-441	6.863	.065			6.829	.073			6.794	.082			6.759	.090		
2-442	7.109	.071			7.073	.080			7.037	.088			7.001	.097		
2-443	7.355	.072			7.318	.081			7.281	.090			7.243	.099		
2-444	7.601	.073			7.563	.082			7.524	.091			7.486	.101		
2-445	7.847	.074			7.808	.083			7.768	.093			7.728	.102		
2-446	8.339	.086			8.297	.096			8.255	.106			8.212	.116		
2-447	8.831	.087			8.787	.098			8.742	.109			8.697	.120		
2-448	9.323	.089			9.276	.100			9.229	.112			9.181	.123		
2-449	9.815	.091			9.766	.103			9.716	.115			9.666	.127		
2-450	10.307	.098	▼	▼	10.255	.110	▼	▼	10.203	.123	▼	▼	10.150	.135	▼	▼
2-451	10.799	.100	.271	.008	10.745	.113	.269	.009	10.690	.126	.268	.009	10.635	.139	.266	.009

Table 10-8: Dimensions From Standard Tooling (Continued)

## Parker O-Ring Handbook

## Dimensions From Standard Tooling (Continued)

Parker Size Number	Class -1				Class AN				Class I				Class II			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
2-452	11.544	.060	.277	.006	11.475	.060	.275	.006	11.406	.074	.273	.007	11.349	.088	.272	.008
2-453	12.047	.060			11.975	.060			11.903	.074			11.843	.089		
2-454	12.550	.060			12.475	.060			12.400	.075			12.338	.090		
2-455	13.053	.060			12.975	.060			12.897	.076			12.832	.091		
2-456	13.556	.070			13.475	.070			13.394	.086			13.327	.102		
2-457	14.059	.070			13.975	.070			13.891	.087			13.821	.104		
2-458	14.562	.070			14.475	.070			14.388	.087			14.316	.105		
2-459	15.065	.070			14.975	.070			14.885	.088			14.810	.106		
2-460	15.568	.070			15.475	.070			15.382	.089			15.305	.107		
2-461	16.051	.075			15.955	.075			15.859	.094			15.779	.113		
2-462	16.554	.075			16.455	.075			16.356	.095			16.274	.114		
2-463	17.057	.080			16.955	.080			16.853	.100			16.768	.121		
2-464	17.560	.085			17.455	.085			17.350	.106			17.263	.127		
2-465	18.063	.085			17.955	.085			17.847	.107			17.757	.128		
2-466	18.566	.085			18.455	.085			18.344	.107			18.252	.129		
2-467	19.069	.090			18.955	.090			18.841	.113			18.746	.135		
2-468	19.572	.090			19.455	.090			19.338	.113			19.241	.137		
2-469	20.075	.095			19.955	.095			19.835	.119			19.735	.143		
2-470	21.081	.095			20.955	.095			20.829	.120			20.724	.145		
2-471	22.087	.100			21.955	.100			21.823	.126			21.713	.153		
2-472	23.078	.105			22.940	.105			22.802	.133			22.688	.160		
2-473	24.084	.110			23.940	.110			23.796	.139			23.677	.167		
2-474	25.090	.115	▼	▼	24.940	.115	▼	▼	24.790	.145	▼	▼	24.666	.175	▼	▼
2-475	26.096	.120	.277	.006	25.940	.120	.275	.006	25.784	.151	.273	.007	25.655	.182	.272	.008

Parker Size Number	Class -1				Class AN				Class I				Class II			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
3-901	.186	.005	.056	.003	.185	.005	.056	.003	.184	.005	.056	.004	.183	.005	.055	.004
3-902	.240	.005	.064		.239	.005	.064		.238	.005	.064		.236	.006	.063	
3-903	.303	.005	.064		.301	.005	.064		.299	.005	.064		.298	.006	.063	
3-904	.353	.005	.072		.351	.005	.072		.349	.005	.072		.347	.006	.071	
3-905	.416	.005	.072		.414	.005	.072		.412	.005	.072		.409	.006	.071	
3-906	.471	.005	.078		.468	.005	.078		.465	.006	.078		.463	.006	.077	
3-907	.533	.007	.082		.530	.007	.082		.527	.008	.082		.524	.008	.081	
3-908	.648	.009	.088		.644	.009	.087		.640	.010	.086		.637	.011	.086	
3-909	.710	.009	.098		.706	.009	.097		.702	.010	.096		.698	.011	.096	
3-910	.760	.009	.098		.755	.009	.097		.750	.010	.096		.747	.011	.096	
3-911	.868	.009	.117		.863	.009	.116		.858	.010	.115		.854	.011	.115	
3-912	.930	.009	.117		.924	.009	.116		.918	.010	.115		.914	.011	.115	
3-913	.992	.010	.117		.986	.010	.116		.980	.011	.115		.975	.012	.115	
3-914	1.053	.010	.117		1.047	.010	.116		1.041	.011	.115		1.035	.013	.115	
3-916	1.178	.010	.117		1.171	.010	.116		1.164	.011	.115		1.158	.013	.115	
3-918	1.363	.012	.117		1.355	.012	.116		1.347	.014	.115		1.340	.015	.115	
3-920	1.484	.014	.119		1.475	.014	.118		1.466	.016	.117		1.459	.018	.117	
3-924	1.730	.014	.119		1.720	.014	.118		1.710	.016	.117		1.701	.018	.117	
3-928	2.103	.018	.119	▼	2.090	.018	.118	▼	2.077	.021	.117	▼	2.067	.023	.117	▼
3-932	2.351	.018	.119	.004	2.337	.018	.118	.004	2.323	.021	.117	.005	2.311	.024	.117	.005

Table 10-8: Dimensions From Standard Tooling (Continued)

**Parker O-Ring Handbook**

**Dimensions From Standard Tooling (Continued)**

Parker Size Number	Class III				Class IV				Class V				Class VI			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
2-452	11.291	.101	.271	.008	11.234	.115	.269	.009	11.177	.129	.268	.009	11.119	.143	.266	.009
2-453	11.783	.103			11.724	.117			11.664	.132			11.604	.146		
2-454	12.275	.105			12.213	.120			12.151	.135			12.088	.150		
2-455	12.767	.107			12.703	.122			12.638	.138			12.573	.153		
2-456	13.259	.119			13.192	.135			13.125	.151			13.057	.167		
2-457	13.751	.120			13.682	.137			13.612	.154			13.542	.170		
2-458	14.243	.122			14.171	.139			14.099	.157			14.026	.174		
2-459	14.735	.124			14.661	.142			14.586	.160			14.511	.181		
2-460	15.227	.126			15.150	.144			15.073	.163			14.995	.181		
2-461	15.700	.132			15.620	.152			15.540	.171			15.460	.190		
2-462	16.192	.134			16.109	.154			16.027	.174			15.945	.193		
2-463	16.684	.141			16.599	.161			16.514	.182			16.429	.202		
2-464	17.176	.148			17.088	.169			17.001	.190			16.914	.211		
2-465	17.668	.150			17.578	.171			17.488	.193			17.398	.214		
2-466	18.160	.151			18.067	.174			17.975	.196			17.883	.218		
2-467	18.652	.158			18.557	.181			18.462	.204			18.367	.226		
2-468	19.144	.160			19.046	.183			18.949	.207			18.852	.230		
2-469	19.636	.167			19.536	.191			19.436	.215			19.336	.239		
2-470	20.620	.170			20.515	.196			20.410	.221			20.305	.246		
2-471	21.604	.179			21.494	.205			21.384	.232			21.274	.258		
2-472	22.573	.188			22.458	.215			22.344	.243			22.229	.270		
2-473	23.557	.196			23.437	.225			23.318	.254			23.198	.282		
2-474	23.541	.205	▼	▼	24.416	.235	▼	▼	24.292	.265	▼	▼	24.167	.295	▼	▼
2-475	25.525	.213	.271	.008	25.395	.245	.269	.009	25.266	.276	.268	.009	25.136	.307	.266	.009

Parker Size Number	Class III				Class IV				Class V				Class VI			
	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±	ID	Tol ±	W	Tol ±
3-901	.182	.006	.055	.004	.181	.006	.055	.004	.180	.006	.055	.004	.179	.006	.054	.004
3-902	.235	.006	.063		.234	.006	.063		.233	.006	.062		.232	.007	.063	
3-903	.296	.006	.063		.295	.006	.063		.293	.007	.062		.292	.007	.062	
3-904	.345	.006	.071		.344	.007	.070		.342	.007	.070		.340	.008	.070	
3-905	.407	.006	.071		.405	.007	.070		.403	.007	.070		.401	.008	.070	
3-906	.461	.007	.077		.458	.007	.076		.456	.008	.076		.453	.008	.076	
3-907	.522	.009	.081		.519	.010	.080		.516	.010	.080		.514	.011	.079	
3-908	.634	.011	.086		.630	.012	.085		.627	.013	.085		.624	.014	.084	
3-909	.695	.012	.095	▼	.691	.012	.095	▼	.688	.013	.094	▼	.684	.014	.094	▼
3-910	.743	.012	.095	.004	.739	.013	.095	.004	.735	.014	.094	.004	.732	.014	.094	.004
3-911	.849	.012	.114	.005	.845	.013	.114	.005	.841	.014	.113	.006	.836	.015	.112	.006
3-912	.909	.012	.114		.905	.013	.114		.900	.015	.113		.895	.016	.113	
3-913	.970	.014	.114		.965	.015	.114		.960	.016	.113		.955	.017	.113	
3-914	1.030	.014	.114		1.025	.015	.114		1.020	.016	.113		1.015	.018	.113	
3-916	1.152	.014	.114		1.146	.016	.114		1.141	.017	.113		1.135	.018	.113	
3-918	1.333	.017	.114		1.327	.019	.114		1.320	.020	.113		1.313	.022	.113	
3-920	1.451	.019	.116		1.444	.021	.116		1.437	.023	.115		1.429	.025	.114	
3-924	1.692	.020	.116		1.684	.022	.116		1.675	.024	.115		1.667	.026	.114	
3-928	2.057	.026	.116	▼	2.046	.028	.116	▼	2.036	.031	.115	▼	2.025	.033	.114	▼
3-932	2.300	.026	.116	.005	2.288	.029	.116	.005	2.276	.032	.115	.006	2.265	.035	.114	.006

**Table 10-8: Dimensions From Standard Tooling (Continued)**

**Parker O-Ring Handbook**

<b>Cross Section Tolerances</b>									
<b>W Cross Section Range – in.</b>	<b>–1</b>	<b>AN</b>	<b>+I</b>	<b>Shrinkage Class Tolerance</b>					
				<b>+II</b>	<b>+III</b>	<b>+IV</b>	<b>+V</b>	<b>+VI</b>	<b>± inches</b>
.025 – .097	.003	.003	.004	.004	.004	.004	.004	.004	.004
.098 – .104	.003	.003	.004	.004	.004	.004	.004	.005	.005
.105 – .129	.004	.004	.005	.005	.005	.005	.005	.006	.006
.130 – .149	.004	.004	.005	.005	.005	.005	.006	.006	.006
.150 – .174	.005	.005	.006	.006	.007	.007	.007	.007	.008
.175 – .220	.005	.005	.006	.007	.007	.007	.007	.008	.008
.221 – .250	.006	.006	.007	.008	.008	.008	.009	.009	.009
.251 – .300	.006	.006	.007	.008	.008	.008	.009	.010	.010
.301 – .340	.007	.007	.008	.010	.010	.010	.010	.011	.011
.341 – .375	.007	.007	.008	.010	.010	.010	.011	.011	.011
<b>W Cross Section Range – mm.</b>	<b>–1</b>	<b>AN</b>	<b>+I</b>	<b>+II</b>	<b>+III</b>	<b>+IV</b>	<b>+V</b>	<b>+VI</b>	<b>± millimeters</b>
.63 – 2.47	.08	.08	.10	.10	.10	.10	.10	.10	.10
2.48 – 2.65	.08	.08	.10	.10	.10	.10	.10	.13	.13
2.60 – 3.29	.10	.10	.13	.13	.13	.13	.13	.15	.15
3.30 – 3.80	.10	.10	.13	.13	.13	.13	.15	.15	.15
3.81 – 4.43	.13	.13	.15	.15	.18	.18	.18	.18	.20
4.44 – 5.60	.13	.13	.15	.18	.18	.18	.18	.20	.20
5.61 – 6.36	.15	.15	.18	.20	.20	.20	.23	.23	.23
6.37 – 7.64	.15	.15	.18	.20	.20	.20	.23	.25	.25
7.65 – 8.65	.18	.18	.20	.25	.25	.25	.25	.28	.28
8.66 – 9.55	.18	.18	.20	.25	.25	.25	.28	.28	.28

**Table 10-9: Cross Section Tolerances**

<b>Shrinkage Class Factors</b>		
<b>Shrinkage Class</b>	<b>Dimension Factor</b>	<b>Tolerance Factor</b>
–1	1.006	0
AN	1.000	0
+I	.994	.0012
+II	.989	.0024
+III	.984	.0036
+IV	.979	.0048
+V	.974	.0060
+VI	.969	.0072

**Table 10-10: Shrinkage Class Factors**

**Parker O-Ring Handbook**

Tolerances for Special O-Rings with Standard Shrinkage Rates							
Inside Dia. (in.)	Tol. (in.)	Inside Dia. (mm)	Tol. (mm)	Inside Dia. (in.)	Tol. (in.)	Inside Dia. (mm)	Tol. (mm)
.027 – .060	.004	.68 – 1.53	.10	4.001 – 4.620	.030	101.62 – 117.36	.76
.061 – .490	.005	1.54 – 11.69	.13	4.621 – 5.560	.035	117.37 – 141.23	.89
.491 – .530	.006	11.70 – 14.49	.15	5.561 – 6.550	.040	141.24 – 166.39	1.02
.531 – .690	.007	14.50 – 17.54	.18	6.551 – 7.560	.045	166.40 – 192.03	1.14
.691 – .810	.008	17.55 – 20.59	.20	7.561 – 8.610	.050	192.04 – 218.70	1.27
.811 – .940	.009	20.60 – 23.89	.23	8.611 – 9.975	.055	218.71 – 246.39	1.40
.941 – 1.130	.010	23.90 – 28.71	.25	9.976 – 11.400	.060	246.40 – 289.57	1.52
1.131 – 1.400	.012	28.72 – 35.57	.30	11.401 – 13.700	.070	289.58 – 347.99	1.78
1.401 – 1.700	.014	35.58 – 43.17	.36	13.701 – 16.100	.080	348.00 – 408.95	2.03
1.701 – 2.000	.016	43.20 – 50.81	.41	16.101 – 18.600	.090	408.96 – 472.45	2.29
2.001 – 2.300	.018	50.82 – 58.43	.46	18.601 – 22.500	.100	472.46 – 571.51	2.54
2.301 – 2.620	.020	58.44 – 66.56	.51	22.501 – 28.000	.120	571.52 – 711.21	3.05
2.621 – 2.950	.022	66.57 – 74.94	.56	28.001 – 33.700	.140	711.22 – 855.99	3.56
2.951 – 3.290	.024	74.95 – 83.57	.61	33.701 – 39.600	.160	856.00 – 1005.85	4.06
3.291 – 3.630	.026	83.58 – 92.21	.66	39.601 – 45.800	.180	1005.86 – 1163.66	4.57
3.631 – 4.000	.028	92.22 – 101.61	.71	45.801 – 52.000	.200	1163.34 – 1320.80	5.08

**Table 10-11: Tolerances for Special O-Rings with Standard Shrinkage Rates**