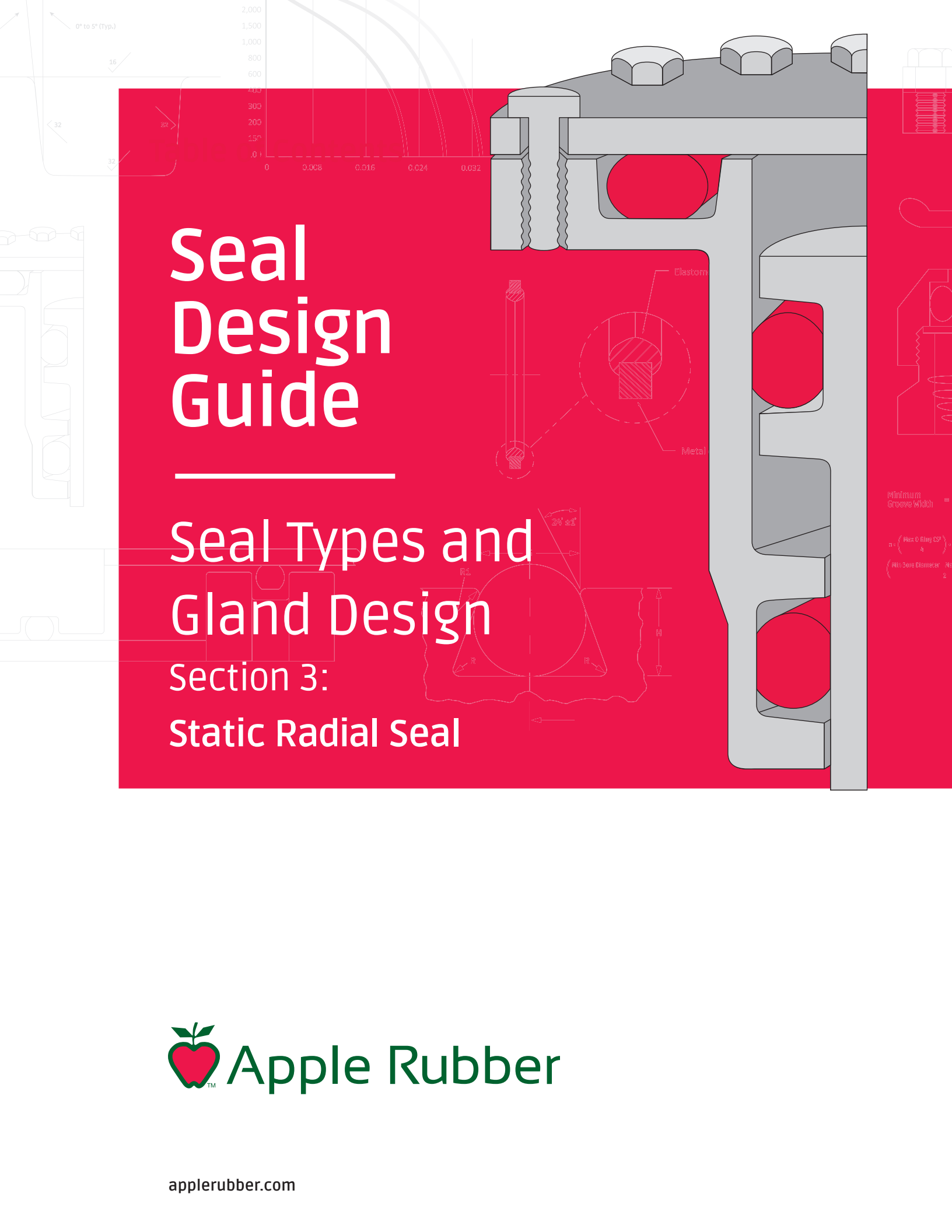




Seal Design Guide

Seal Types and Gland Design

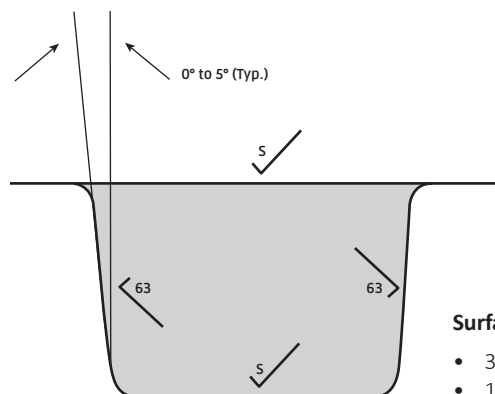
Section 3:

Static Radial Seal

 Apple Rubber

applerubber.com

Static Radial Seal



Surface finish (S):

- 32 for liquids
- 16 for vacuum and gases

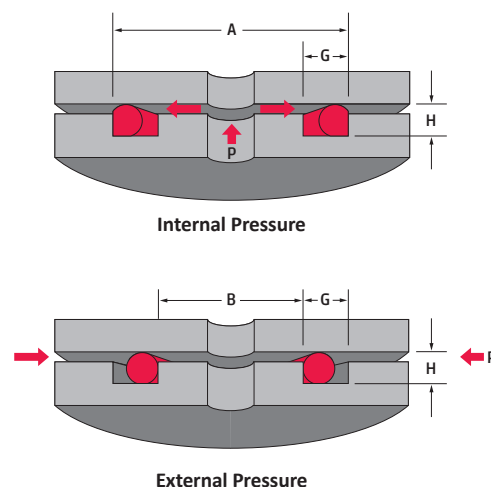


TABLE C Static Radial Seal Gland Dimensions

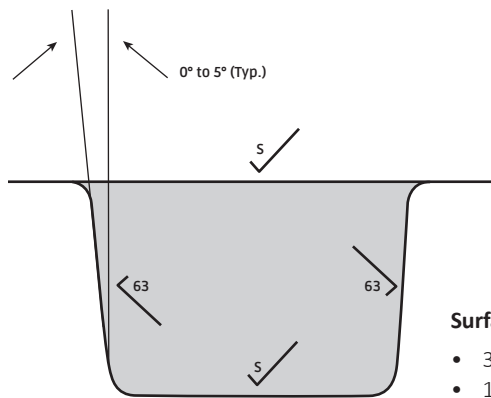
AS568 Number	O-Ring Dimensions				Cylinder Bore Diameter A	Piston Diameter B	Piston Groove Diameter C	Rod Bore Diameter D	Rod Diameter E	Rod Gland Diameter F	Gland Width G
	I.D.	± Tol.	W	(O.D.)							
Tolerance		±0.003			+0.002 -0.000	+0.000 -0.001	+0.000 -0.001	+0.002 -0.000	+0.000 -0.001	+0.001 -0.000	+0.010 -0.000
-001	.029	.004	0.040	0.109	.082	.081	.035	.036	.035	.083	.101
-002	.042	.004	0.050	0.142	.115	.114	.048	.049	.048	.116	.101
-003	.056	.004	0.060	0.176	.148	.147	.062	.063	.062	.149	.101
-004	.070	.005	0.070	0.210	.181	.180	.077	.078	.077	.182	.105
-005	.101	.005		0.241	.215	.214	.109	.110	.109	.216	.105
-006	.114	.005		0.254	.229	.228	.122	.123	.122	.230	.105
-007	.145	.005		0.285	.262	.261	.154	.155	.154	.263	.105
-008	.176	.005		0.316	.295	.294	.186	.187	.186	.296	.105
-009	.208	.005		0.348	.326	.325	.218	.219	.218	.327	.105
-010	.239	.005		0.379	.359	.358	.250	.251	.250	.360	.105
-011	.301	.005		0.441	.421	.420	.313	.314	.313	.422	.105
-012	.364	.005		0.504	.486	.485	.377	.378	.377	.487	.105
-013	.426	.005		0.566	.550	.549	.441	.442	.442	.551	.105
-014	.489	.005	▼	0.629	.614	.613	.505	.506	.505	.615	.105
Tolerance		±0.003			+0.002 -0.000	+0.000 -0.002	+0.000 -0.003	+0.002 -0.000	+0.000 -0.002	+0.003 -0.000	+0.010 -0.000
-015	.551	.007	0.070	0.691	.680	.679	.572	.572	.571	.679	.105
-016	.614	.009		0.754	.746	.745	.638	.638	.637	.745	.105
-017	.676	.009		0.816	.810	.809	.702	.702	.701	.809	.105
-018	.739	.009		0.879	.874	.873	.766	.766	.765	.873	.105
-019	.801	.009		0.941	.937	.936	.829	.829	.828	.936	.105
-020	.864	.009		1.004	1.000	.999	.893	.893	.892	.999	.105
-021	.926	.009		1.066	1.064	1.063	.957	.957	.956	1.063	.105
-022	.989	.010		1.129	1.129	1.128	1.022	1.022	1.021	1.128	.105
-023	1.051	.010		1.191	1.192	1.191	1.085	1.085	1.084	1.191	.105
-024	1.114	.010	▼	1.254	1.257	1.256	1.149	1.149	1.148	1.256	.105

NOTE: Standard glands are not provided for the larger diameter bore-mounted applications because Diameter F becomes larger than the outside diameter of the O-Ring seal, making the installation of the seal impractical.

TABLE C Static Radial Seal Gland Dimensions

AS568 Number	O-Ring Dimensions				Cylinder Bore Diameter A	Piston Diameter B	Piston Groove Diameter C	Rod Bore Diameter D	Rod Diameter E	Rod Gland Diameter F	Gland Width G
	I.D.	± Tol.	W	(O.D.)							
Tolerance		±0.003			+0.002 -.000	+0.000 -.002	+0.000 -.003	+0.002 -.000	+0.000 -.002	+0.003 -.000	+0.010 -.000
-025	1.176	.011	0.070	1.316	1.321	1.320	1.214	1.214	1.213	1.320	.105
-026	1.239	.011		1.379	1.386	1.385	1.278	1.278	1.277	1.385	.105
-027	1.301	.011		1.441	1.449	1.448	1.341	1.341	1.340	1.448	.105
-028	1.364	.013		1.504	1.515	1.514	1.408	1.408	1.407	1.514	.105
-029	1.489	.013		1.629	1.643	1.642	1.535	1.535	1.534	1.642	.105
-030	1.614	.013		1.754	1.771	1.770	1.663	1.663	1.662	1.770	.105
-031	1.739	.015		1.879	1.900	1.899	1.792	1.791	1.792	1.899	.105
-032	1.864	.015		2.004	2.028	2.027	1.920	1.920	1.919	2.027	.105
-033	1.989	.018		2.129	2.158	2.157	2.050	**	**	**	.105
-034	2.114	.018		2.254	2.286	2.285	2.178	**	**	**	.105
-035	2.239	.018		2.379	2.413	2.412	2.305	**	**	**	.105
-036	2.364	.018		2.504	2.541	2.540	2.433	**	**	**	.105
-037	2.489	.018		2.629	2.668	2.667	2.560	**	**	**	.105
-038	2.614	.020		2.754	2.798	2.797	2.690	**	**	**	.105
-039	2.739	.020		2.879	2.925	2.924	2.817	**	**	**	.105
-040	2.864	.020		3.004	3.053	3.052	2.945	**	**	**	.105
-041	2.989	.024		3.129	3.184	3.183	3.076	**	**	**	.105
-042	3.239	.024		3.379	3.439	3.438	3.331	**	**	**	.105
-043	3.489	.024		3.629	3.694	3.693	3.586	**	**	**	.105
-044	3.739	.027		3.879	3.952	3.951	3.844	**	**	**	.105
-045	3.989	.027		4.129	4.207	4.206	4.099	**	**	**	.105
-046	4.239	.030		4.379	4.465	4.464	4.357	**	**	**	.105
-047	4.489	.030		4.629	4.720	4.719	4.612	**	**	**	.105
-048	4.739	.030		4.879	4.975	4.974	4.867	**	**	**	.105
-049	4.989	.037		5.129	5.238	5.237	5.130	**	**	**	.105
-050	5.239	.037	▼	5.379	5.493	5.492	5.385	**	**	**	.105
Tolerance		±0.003			+0.003 -.000	+0.000 -.002	+0.000 -.004	+0.003 -.000	+0.000 -.002	+0.003 -.000	+0.010 -.000
-102	.049	.005	0.103	0.255	.213	.212	.059	.058	.057	.212	.146
-103	.081	.005		0.287	.251	.250	.092	.091	.090	.250	.146
-104	.112	.005		0.318	.285	.284	.123	.122	.121	.284	.146
-105	.143	.005		0.349	.318	.317	.155	.154	.153	.317	.146
-106	.174	.005	▼	0.380	.350	.349	.187	.186	.185	.349	.146

NOTE: Standard glands are not provided for the larger diameter bore-mounted applications because Diameter F becomes larger than the outside diameter of the O-Ring seal, making the installation of the seal impractical.



Surface finish (S):

- 32 for liquids
- 16 for vacuum and gases

Finishes are RMS values

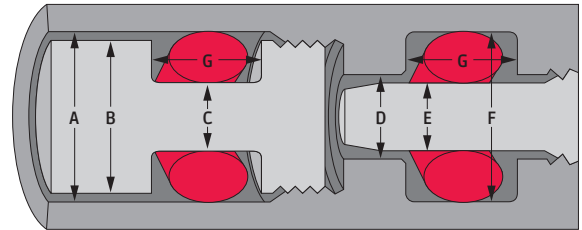


TABLE C Static Radial Seal Gland Dimensions

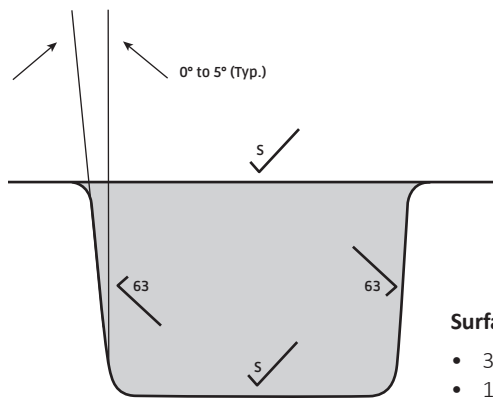
AS568 Number	O-Ring Dimensions				Cylinder Bore Diameter A	Piston Diameter B	Piston Groove Diameter C	Rod Bore Diameter D	Rod Diameter E	Rod Gland Diameter F	Gland Width G
	I.D.	± Tol.	W	(O.D.)							
Tolerance		±0.003			+0.003 -0.000	+0.000 -0.002	+0.000 -0.004	+0.003 -0.000	+0.000 -0.002	+0.003 -0.000	+0.010 -0.000
-107	.206	.005	0.103	0.412	.382	.381	.219	.218	.217	.381	.146
-108	.237	.005		0.443	.415	.414	.251	.250	.249	.414	.146
-109	.299	.005		0.505	.478	.477	.314	.313	.312	.477	.146
-110	.362	.005		0.568	.541	.540	.378	.377	.376	.540	.146
-111	.424	.005		0.630	.606	.605	.442	.441	.440	.605	.146
-112	.487	.005		0.693	.669	.668	.506	.505	.504	.668	.146
-113	.549	.005		0.755	.734	.733	.571	.570	.569	.733	.146
-114	.612	.009		0.818	.800	.799	.637	.636	.635	.799	.146
-115	.674	.009		0.880	.864	.863	.701	.700	.699	.863	.146
-116	.737	.009		0.943	.929	.928	.765	.764	.763	.928	.146
-117	.799	.010		1.005	.993	.992	.829	.828	.827	.992	.146
-118	.862	.010		1.068	1.056	1.055	.893	.892	.891	1.055	.146
-119	.924	.010		1.130	1.120	1.119	.957	.958	.955	1.119	.146
-120	.987	.010		1.193	1.184	1.183	1.021	1.020	1.019	1.183	.146
-121	1.049	.010		1.255	1.247	1.246	1.084	1.083	1.082	1.246	.146
-122	1.112	.010		1.318	1.311	1.310	1.148	1.147	1.146	1.310	.146
-123	1.174	.012		1.380	1.377	1.376	1.214	1.213	1.212	1.376	.146
-124	1.237	.012		1.443	1.441	1.440	1.278	1.277	1.276	1.440	.146
-125	1.299	.012		1.505	1.504	1.503	1.341	1.340	1.339	1.503	.146
-126	1.362	.012		1.568	1.568	1.567	1.405	1.404	1.403	1.567	.146
-127	1.424	.012		1.630	1.633	1.632	1.469	1.468	1.467	1.632	.146
-128	1.487	.012		1.693	1.696	1.695	1.533	1.532	1.531	1.695	.146
-129	1.549	.015		1.755	1.762	1.761	1.599	1.598	1.597	1.761	.146
-130	1.612	.015		1.818	1.827	1.826	1.664	1.663	1.662	1.826	.146
-131	1.674	.015		1.880	1.890	1.889	1.727	1.726	1.725	1.889	.146
-132	1.737	.015		1.943	1.954	1.953	1.791	1.790	1.789	1.953	.146
-133	1.799	.015		2.005	2.018	2.017	1.854	1.853	1.852	2.017	.146
-134	1.862	.015		2.068	2.083	2.082	1.919	1.918	1.917	2.082	.146
-135	1.925	.017		2.131	2.148	2.147	1.985	1.984	1.983	2.147	.146
-136	1.987	.017		2.193	2.211	2.210	2.048	2.047	2.046	2.210	.146
-137	2.050	.017		2.256	2.276	2.275	2.112	2.111	2.110	2.275	.146

NOTE: Standard glands are not provided for the larger diameter bore-mounted applications because Diameter F becomes larger than the outside diameter of the O-Ring seal, making the installation of the seal impractical.

TABLE C Static Radial Seal Gland Dimensions

AS568 Number	O-Ring Dimensions				Cylinder Bore Diameter A	Piston Diameter B	Piston Groove Diameter C	Rod Bore Diameter D	Rod Diameter E	Rod Gland Diameter F	Gland Width G
	I.D.	± Tol.	W	(O.D.)							
Tolerance		±0.003			+0.003 -0.000	+0.000 -0.002	+0.000 -0.004	+0.003 -0.000	+0.000 -0.002	+0.004 -0.000	+0.010 -0.000
-138	2.112	.017	0.103	2.318	2.340	2.339	2.176	2.175	2.174	2.339	.146
-139	2.175	.017		2.381	2.403	2.402	2.240	2.239	2.238	2.402	.146
-140	2.237	.017		2.443	2.466	2.465	2.303	2.302	2.301	2.465	.146
-141	2.300	.020		2.506	2.533	2.532	2.370	2.369	2.368	2.532	.146
-142	2.362	.020		2.568	2.597	2.596	2.434	2.433	2.432	2.596	.146
-143	2.425	.020		2.631	2.662	2.661	2.498	2.497	2.496	2.661	.146
-144	2.487	.020		2.693	2.724	2.723	2.561	2.560	2.559	2.723	.146
-145	2.550	.020		2.756	2.788	2.787	2.625	2.624	2.623	2.787	.146
-146	2.612	.020		2.818	2.852	2.851	2.689	2.688	2.687	2.851	.146
-147	2.675	.022		2.881	2.919	2.918	2.755	2.754	2.753	2.918	.146
-148	2.737	.022		2.943	2.981	2.980	2.818	2.817	2.816	2.980	.146
-149	2.800	.022		3.006	3.045	3.044	2.882	2.881	2.880	3.044	.146
-150	2.862	.022		3.068	3.109	3.108	2.946	2.945	2.944	3.108	.146
-151	2.987	.024		3.193	3.238	3.237	3.075	3.074	3.073	3.237	.146
-152	3.237	.024		3.443	3.493	3.492	3.330	**	**	**	.146
-153	3.487	.024		3.693	3.748	3.747	3.585	**	**	**	.146
-154	3.737	.028		3.943	4.007	4.006	3.844	**	**	**	.146
-155	3.987	.028		4.193	4.262	4.261	4.099	**	**	**	.146
-156	4.237	.030		4.443	4.519	4.518	4.356	**	**	**	.146
-157	4.487	.030		4.693	4.774	4.773	4.611	**	**	**	.146
-158	4.737	.030		4.943	5.029	5.028	4.866	**	**	**	.146
-159	4.987	.035		5.193	5.289	5.288	5.126	**	**	**	.146
-160	5.237	.035		5.443	5.544	5.543	5.381	**	**	**	.146
-161	5.487	.035		5.693	5.799	5.798	5.636	**	**	**	.146
-162	5.737	.035		5.943	6.054	6.053	5.891	**	**	**	.146
-163	5.987	.035		6.193	6.309	6.308	6.146	**	**	**	.146
-164	6.237	.040		6.443	6.570	6.569	6.407	**	**	**	.146
-165	6.487	.040		6.693	6.825	6.824	6.662	**	**	**	.146
-166	6.737	.040		6.943	7.080	7.079	6.917	**	**	**	.146
-167	6.987	.040	▼	7.193	7.335	7.334	7.172	**	**	**	.146

****NOTE:** Standard glands are not provided for the larger diameter bore-mounted applications because Diameter F becomes larger than the outside diameter of the O-Ring seal, making the installation of the seal impractical.



Surface finish (S):

- 32 for liquids
- 16 for vacuum and gases

Finishes are RMS values

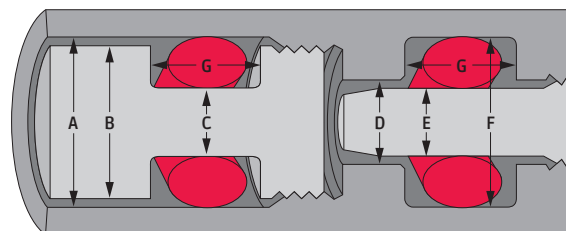


TABLE C Static Radial Seal Gland Dimensions

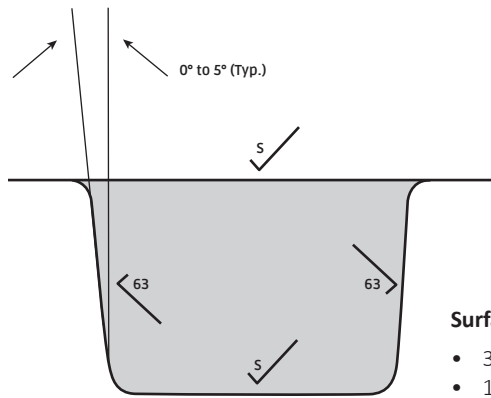
AS568 Number	O-Ring Dimensions				Cylinder Bore Diameter A	Piston Diameter B	Piston Groove Diameter C	Rod Bore Diameter D	Rod Diameter E	Rod Gland Diameter F	Gland Width G
	I.D.	± Tol.	W	(O.D.)							
Tolerance		±0.003			+0.003 -0.000	+0.000 -0.002	+0.000 -0.004	+0.003 -0.000	+0.000 -0.002	+0.004 -0.000	+0.010 -0.000
-168	7.237	.045	0.103	7.443	7.596	7.594	7.432	**	**	**	.146
-169	7.487	.045		6.693	7.850	7.849	7.687	**	**	**	.146
-170	7.737	.045		7.943	8.105	8.104	7.942	**	**	**	.146
-171	7.987	.045		8.193	8.360	8.359	8.197	**	**	**	.146
-172	8.237	.050		8.443	8.620	8.619	8.457	**	**	**	.146
-173	8.487	.050		8.693	8.875	8.874	8.712	**	**	**	.146
-174	8.737	.050		8.943	9.130	9.129	8.967	**	**	**	.146
-175	8.987	.050		9.193	9.385	9.384	9.222	**	**	**	.146
-176	9.237	.055		9.443	9.645	9.644	9.482	**	**	**	.146
-177	9.487	.055		9.693	9.900	9.899	9.737	**	**	**	.146
-178	9.737	.055	▼	9.943	10.155	10.154	9.992	**	**	**	.146
Tolerance		±0.004			+0.003 -0.000	+0.000 -0.003	+0.000 -0.006	+0.003 -0.000	+0.000 -0.003	+0.006 -0.000	+0.010 -0.000
-201	0.171	.005	0.139	0.449	.408	.406	.186	.185	.183	.405	.195
-202	0.234	.005		0.512	.472	.470	.250	.249	.247	.469	.195
-203	0.296	.005		0.574	.534	.532	.313	.312	.310	.531	.195
-204	0.359	.005		0.637	.599	.597	.377	.376	.374	.596	.195
-205	0.421	.005		0.699	.663	.661	.441	.440	.438	.660	.195
-206	0.484	.005		0.762	.726	.724	.505	.504	.502	.723	.195
-207	0.546	.007		0.824	.792	.790	.570	.569	.567	.789	.195
-208	0.609	.009		0.887	.858	.856	.636	.635	.633	.855	.195
-209	0.671	.009		0.949	.921	.919	.700	.699	.697	.918	.195
-210	0.734	.010		1.012	.986	.984	.765	.764	.762	.983	.195
-211	0.796	.010		1.074	1.050	1.048	.828	.827	.825	1.047	.195
-212	0.859	.010		1.137	1.114	1.112	.892	.891	.889	1.111	.195
-213	0.921	.010		1.199	1.177	1.175	.956	.955	.953	1.174	.195
-214	0.984	.010		1.262	1.242	1.240	1.020	1.019	1.017	1.239	.195
-215	1.046	.010	▼	1.324	1.305	1.303	1.083	1.082	1.080	1.302	.195

****NOTE:** Standard glands are not provided for the larger diameter bore-mounted applications because Diameter F becomes larger than the outside diameter of the O-Ring seal, making the installation of the seal impractical.

TABLE C Static Radial Seal Gland Dimensions

AS568 Number	O-Ring Dimensions				Cylinder Bore Diameter A	Piston Diameter B	Piston Groove Diameter C	Rod Bore Diameter D	Rod Diameter E	Rod Gland Diameter F	Gland Width G
	I.D.	± Tol.	W	(O.D.)							
Tolerance			±0.004		+0.003 -0.000	+0.000 -0.003	+0.000 -0.006	+0.003 -0.000	+0.000 -0.003	+0.006 -0.000	+0.010 -0.000
-216	1.109	.012	0.139	1.387	1.370	1.368	1.149	1.148	1.146	1.367	.195
-217	1.171	.012		1.449	1.435	1.433	1.213	1.212	1.210	1.432	.195
-218	1.234	.012		1.512	1.499	1.497	1.277	1.276	1.274	1.496	.195
-219	1.296	.012		1.574	1.562	1.560	1.340	1.339	1.337	1.559	.195
-220	1.359	.012		1.637	1.626	1.624	1.404	1.403	1.401	1.623	.195
-221	1.421	.012		1.699	1.690	1.688	1.468	1.467	1.465	1.687	.195
-222	1.484	.015		1.762	1.757	1.755	1.535	1.534	1.532	1.754	.195
-223	1.609	.015		1.887	1.884	1.882	1.662	1.661	1.659	1.881	.195
-224	1.734	.015		2.012	2.012	2.010	1.790	1.789	1.787	2.009	.195
-225	1.859	.018		2.137	2.143	2.141	1.921	1.920	1.918	2.140	.195
-226	1.984	.018		2.262	2.270	2.268	2.048	2.047	2.045	2.267	.195
-227	2.109	.018		2.387	2.398	2.396	2.176	2.175	2.173	2.395	.195
-228	2.234	.020		2.512	2.527	2.525	2.305	2.304	2.302	2.524	.195
-229	2.359	.020		2.637	2.655	2.653	2.433	2.432	2.430	2.652	.195
-230	2.484	.020		2.762	2.781	2.779	2.560	2.559	2.557	2.778	.195
-231	2.609	.020		2.887	2.909	2.907	2.688	2.687	2.685	2.906	.195
-232	2.734	.024		3.012	3.041	3.039	2.819	2.818	2.816	3.038	.195
-233	2.859	.024		3.137	3.169	3.167	2.947	2.946	2.944	3.166	.195
-234	2.984	.024		3.262	3.296	3.293	3.074	3.073	3.071	3.292	.195
-235	3.109	.024		3.387	3.423	3.421	3.202	3.201	3.199	3.420	.195
-236	3.234	.024		3.512	3.551	3.549	3.329	3.328	3.326	3.548	.195
-237	3.359	.024		3.637	3.679	3.677	3.457	3.456	3.454	3.678	.195
-238	3.484	.024		3.762	3.806	3.804	3.584	3.583	3.581	3.803	.195
-239	3.609	.028		3.887	3.937	3.935	3.716	3.715	3.713	3.934	.195
-240	3.734	.028		4.012	4.065	4.063	3.843	3.842	3.840	4.062	.195
-241	3.859	.028		4.137	4.193	4.191	3.971	3.970	3.968	4.190	.195
-242	3.984	.028		4.262	4.320	4.318	4.098	4.097	4.095	4.317	.195
-243	4.109	.028		4.387	4.448	4.446	4.226	4.225	4.223	4.445	.195
-244	4.234	.030		4.512	4.577	4.575	4.355	4.354	4.352	4.574	.195
-245	4.359	.030	▼	4.637	4.705	4.703	4.483	**	**	**	.195

****NOTE:** Standard glands are not provided for the larger diameter bore-mounted applications because Diameter F becomes larger than the outside diameter of the O-Ring seal, making the installation of the seal impractical.



Surface finish (S):

- 32 for liquids
- 16 for vacuum and gases

Finishes are RMS values

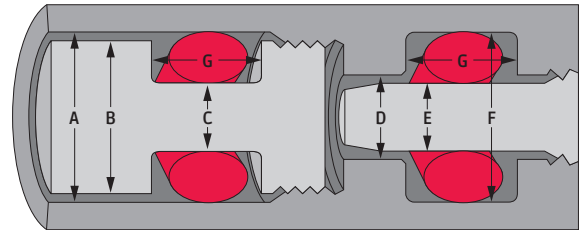


TABLE C Static Radial Seal Gland Dimensions

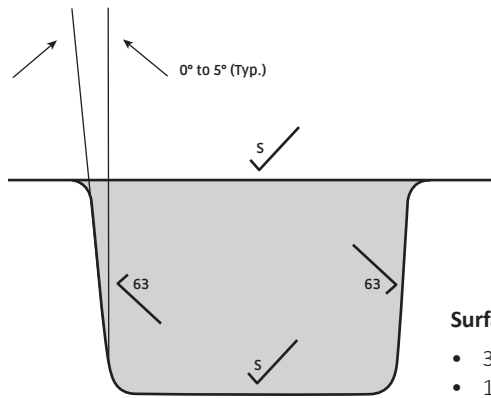
AS568 Number	O-Ring Dimensions				Cylinder Bore Diameter A	Piston Diameter B	Piston Groove Diameter C	Rod Bore Diameter D	Rod Diameter E	Rod Gland Diameter F	Gland Width G
	I.D.	± Tol.	W	(O.D.)							
Tolerance	±0.004				+0.003 -0.000	+0.000 -0.003	+0.000 -0.006	+0.003 -0.000	+0.000 -0.003	+0.006 -0.000	+0.010 -0.000
-246	4.484	.030	0.139	4.762	4.832	4.830	4.610	**	**	**	.195
-247	4.609	.030		4.887	4.960	4.958	4.738	**	**	**	.195
-248	4.734	.030		5.012	5.087	5.085	4.865	**	**	**	.195
-249	4.859	.035		5.137	5.220	5.218	4.998	**	**	**	.195
-250	4.984	.035		5.262	5.347	5.345	5.125	**	**	**	.195
-251	5.109	.035		5.387	5.475	5.473	5.253	**	**	**	.195
-252	5.234	.035		5.512	5.602	5.600	5.380	**	**	**	.195
-253	5.359	.035		5.637	5.730	5.728	5.508	**	**	**	.195
-254	5.484	.035		5.762	5.857	5.855	5.635	**	**	**	.195
-255	5.609	.035		5.887	5.985	5.983	5.763	**	**	**	.195
-256	5.734	.035		6.012	6.112	6.110	5.890	**	**	**	.195
-257	5.859	.035		6.137	6.240	6.238	6.018	**	**	**	.195
-258	5.984	.035		6.262	6.367	6.365	6.145	**	**	**	.195
-259	6.234	.040		6.512	6.627	6.625	6.405	**	**	**	.195
-260	6.484	.040		6.762	6.882	6.880	6.660	**	**	**	.195
-261	6.734	.040		7.012	7.137	7.135	6.915	**	**	**	.195
-262	6.984	.040		7.262	7.392	7.390	7.170	**	**	**	.195
-263	7.234	.045		7.512	7.653	7.651	7.431	**	**	**	.195
-264	7.484	.045		7.762	7.908	7.906	7.686	**	**	**	.195
-265	7.734	.045		8.012	8.163	8.161	7.941	**	**	**	.195
-266	7.984	.045		8.262	8.418	8.416	8.196	**	**	**	.195
-267	8.234	.050		8.512	8.678	8.676	8.456	**	**	**	.195
-268	8.484	.050		8.762	8.933	8.931	8.711	**	**	**	.195
-269	8.734	.050		9.012	9.188	9.186	8.966	**	**	**	.195
-270	8.984	.050		9.262	9.442	9.440	9.221	**	**	**	.195
-271	9.234	.055		9.512	9.703	9.701	9.481	**	**	**	.195
-272	9.484	.055		9.762	9.958	9.956	9.736	**	**	**	.195
-273	9.734	.055		10.012	10.213	10.211	9.991	**	**	**	.195
-274	9.984	.055		10.262	10.467	10.465	10.246	**	**	**	.195
-275	10.484	.055	▼	10.762	10.977	10.975	10.756	**	**	**	.195

****NOTE:** Standard glands are not provided for the larger diameter bore-mounted applications because Diameter F becomes larger than the outside diameter of the O-Ring seal, making the installation of the seal impractical.

TABLE C Static Radial Seal Gland Dimensions

AS568 Number	O-Ring Dimensions				Cylinder Bore Diameter A	Piston Diameter B	Piston Groove Diameter C	Rod Bore Diameter D	Rod Diameter E	Rod Gland Diameter F	Gland Width G
	I.D.	± Tol.	W	(O.D.)							
Tolerance		±0.004			+0.003 -0.000	+0.000 -0.003	+0.000 -0.006	+0.003 -0.000	+0.000 -0.003	+0.006 -0.000	+0.010 -0.000
-276	10.984	.065	0.139	11.262	11.498	11.496	11.276	**	**	**	.195
-277	11.484	.065		11.762	12.008	12.006	11.786	**	**	**	.195
-278	11.984	.065		12.262	12.517	12.515	12.296	**	**	**	.195
-279	12.984	.065		13.262	13.537	13.535	13.316	**	**	**	.195
-280	13.984	.065		14.262	14.558	14.556	14.336	**	**	**	.195
-281	14.984	.065		15.262	15.578	15.576	15.356	**	**	**	.195
-282	15.955	.075		16.233	16.578	16.576	16.357	**	**	**	.195
-283	16.955	.080		17.233	17.603	17.601	17.382	**	**	**	.195
-284	17.955	.085	▼	18.233	18.628	18.626	18.407	**	**	**	.195
Tolerance		±0.005			+0.003 -0.000	+0.000 -0.003	+0.000 -0.008	+0.003 -0.000	+0.000 -0.003	+0.008 -0.000	+0.010 -0.000
-309	0.412	.005	0.210	0.832	.778	.775	.433	.431	.428	.773	.280
-310	0.475	.005		0.895	.843	.840	.498	.496	.493	.838	.280
-311	0.537	.007		0.957	.908	.905	.563	.561	.558	.903	.280
-312	0.600	.009		1.020	.973	.970	.629	.627	.624	.968	.280
-313	0.662	.009		1.082	1.037	1.034	.692	.690	.687	1.032	.280
-314	0.725	.010		1.145	1.103	1.100	.758	.756	.753	1.098	.280
-315	0.787	.010		1.207	1.165	1.162	.821	.819	.816	1.160	.280
-316	0.850	.010		1.270	1.230	1.227	.885	.883	.880	1.225	.280
-317	0.912	.010		1.332	1.292	1.289	.948	.946	.943	1.287	.280
-318	0.975	.010		1.395	1.358	1.355	1.013	1.011	1.008	1.353	.280
-319	1.037	.010		1.457	1.421	1.418	1.076	1.074	1.071	1.416	.280
-320	1.100	.012		1.520	1.487	1.484	1.142	1.140	1.137	1.482	.280
-321	1.162	.012		1.582	1.550	1.547	1.205	1.203	1.200	1.545	.280
-322	1.225	.012		1.645	1.615	1.612	1.270	1.268	1.265	1.610	.280
-323	1.287	.012		1.707	1.678	1.675	1.333	1.331	1.328	1.673	.280
-324	1.350	.012		1.770	1.741	1.738	1.397	1.395	1.392	1.736	.280
-325	1.475	.015		1.895	1.873	1.870	1.528	1.526	1.523	1.868	.280
-326	1.600	.015		2.020	2.000	1.997	1.655	1.653	1.650	1.995	.280
-327	1.725	.015		2.145	2.127	2.124	1.783	1.781	1.778	2.122	.280
-328	1.850	.015	▼	2.270	2.255	2.252	1.910	1.908	1.905	2.250	.280

****NOTE:** Standard glands are not provided for the larger diameter bore-mounted applications because Diameter F becomes larger than the outside diameter of the O-Ring seal, making the installation of the seal impractical.



Surface finish (S):

- 32 for liquids
- 16 for vacuum and gases

Finishes are RMS values

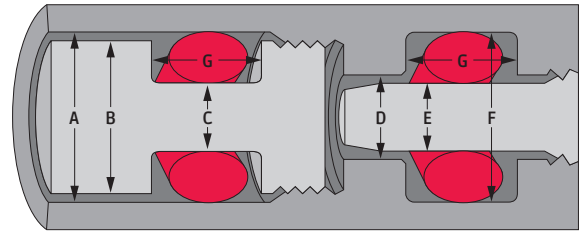


TABLE C Static Radial Seal Gland Dimensions

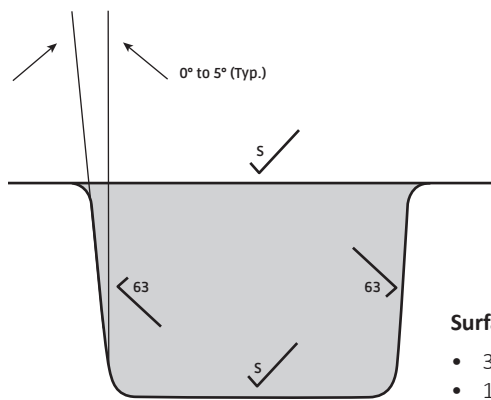
AS568 Number	O-Ring Dimensions				Cylinder Bore Diameter A	Piston Diameter B	Piston Groove Diameter C	Rod Bore Diameter D	Rod Diameter E	Rod Gland Diameter F	Gland Width G
	I.D.	± Tol.	W	(O.D.)							
Tolerance	±0.005				+0.003 -0.000	+0.000 -0.003	+0.000 -0.008	+0.003 -0.000	+0.000 -0.003	+0.008 -0.000	+0.010 -0.000
-329	1.975	.018	0.210	2.395	2.386	2.383	2.041	2.039	2.036	2.381	.280
-330	2.100	.018		2.520	2.513	2.510	2.168	2.166	2.163	2.508	.280
-331	2.225	.018		2.645	2.641	2.638	2.296	2.294	2.291	2.636	.280
-332	2.350	.018		2.770	2.768	2.765	2.423	2.421	2.418	2.763	.280
-333	2.475	.020		2.895	2.898	2.895	2.553	2.551	2.548	2.893	.280
-334	2.600	.020		3.020	3.025	3.022	2.680	2.678	2.675	3.020	.280
-335	2.725	.020		3.145	3.153	3.150	2.808	2.806	2.803	3.148	.280
-336	2.850	.020		3.270	3.279	3.276	2.935	2.933	2.930	3.274	.280
-337	2.975	.024		3.395	3.412	3.409	3.067	3.065	3.062	3.407	.280
-338	3.100	.024		3.520	3.539	3.536	3.194	3.192	3.189	3.534	.280
-339	3.225	.024		3.645	3.667	3.664	3.322	3.320	3.317	3.662	.280
-340	3.350	.024		3.770	3.794	3.791	3.449	3.447	3.444	3.789	.280
-341	3.475	.024		3.895	3.921	3.918	3.577	3.575	3.572	3.916	.280
-342	3.600	.028		4.020	4.054	4.051	3.709	3.707	3.704	4.049	.280
-343	3.725	.028		4.145	4.181	4.178	3.836	3.834	3.831	4.176	.280
-344	3.850	.028		4.270	4.309	4.306	3.964	3.962	3.959	4.304	.280
-345	3.975	.028		4.395	4.436	4.433	4.091	4.089	4.086	4.431	.280
-346	4.100	.028		4.520	4.563	4.560	4.219	4.217	4.214	4.558	.280
-347	4.225	.030		4.645	4.693	4.690	4.348	4.346	4.343	4.688	.280
-348	4.350	.030		4.770	4.820	4.817	4.476	4.474	4.471	4.815	.280
-349	4.475	.030		4.895	4.948	4.945	4.603	4.601	4.598	4.943	.280
-350	4.600	.030		5.020	5.076	5.073	4.731	4.729	4.726	5.071	.280
-351	4.725	.030		5.145	5.203	5.200	4.858	4.856	4.853	5.198	.280
-352	4.850	.030		5.270	5.331	5.328	4.986	4.984	4.981	5.326	.280
-353	4.975	.037		5.395	5.465	5.462	5.120	5.118	5.115	5.460	.280
-354	5.100	.037		5.520	5.593	5.590	5.248	5.246	5.243	5.588	.280
-355	5.225	.037		5.645	5.720	5.717	5.375	5.373	5.370	5.715	.280
-356	5.350	.037		5.770	5.847	5.844	5.503	5.501	5.498	5.842	.280
-357	5.475	.037		5.895	5.975	5.972	5.630	5.628	5.625	5.970	.280
-358	5.600	.037	▼	6.020	6.103	6.100	5.758	5.756	5.753	6.098	.280

NOTE: Standard glands are not provided for the larger diameter bore-mounted applications because Diameter F becomes larger than the outside diameter of the O-Ring seal, making the installation of the seal impractical.

TABLE C Static Radial Seal Gland Dimensions

AS568 Number	O-Ring Dimensions				Cylinder Bore Diameter A	Piston Diameter B	Piston Groove Diameter C	Rod Bore Diameter D	Rod Diameter E	Rod Gland Diameter F	Gland Width G
	I.D.	± Tol.	W	(O.D.)							
Tolerance	±0.005				+0.003 -0.000	+0.000 -0.003	+0.000 -0.008	+0.003 -0.000	+0.000 -0.003	+0.008 -0.000	+0.010 -0.000
-359	5.725	.037	0.210	6.145	6.230	6.227	5.885	5.883	5.880	6.225	.280
-360	5.850	.037		6.270	6.358	6.355	6.013	6.011	6.008	6.353	.280
-361	5.975	.037		6.395	6.485	6.482	6.140	6.138	6.135	6.480	.280
-362	6.225	.040		6.645	6.743	6.740	6.398	6.396	6.393	6.738	.280
-363	6.475	.040		6.895	6.998	6.995	6.653	6.651	6.648	6.993	.280
-364	6.725	.040		7.145	7.253	7.250	6.908	6.906	6.903	7.248	.280
-365	6.975	.040		7.395	7.508	7.505	7.163	7.161	7.158	7.503	.280
-366	7.225	.045		7.645	7.768	7.765	7.423	7.421	7.418	7.763	.280
-367	7.475	.045		7.895	8.023	8.020	7.678	7.676	7.673	8.018	.280
-368	7.725	.045		8.145	8.278	8.275	7.933	7.931	7.928	8.273	.280
-369	7.975	.045		8.395	8.533	8.530	8.188	8.186	8.183	8.528	.280
-370	8.225	.050		8.645	8.794	8.791	8.449	8.447	8.444	8.789	.280
-371	8.475	.050		8.895	9.049	9.046	8.704	**	**	**	.280
-372	8.725	.050		9.145	9.304	9.301	8.959	**	**	**	.280
-373	8.975	.050		9.395	9.559	9.556	9.214	**	**	**	.280
-374	9.225	.055		9.645	9.819	9.816	9.474	**	**	**	.280
-375	9.475	.055		9.895	10.074	10.071	9.729	**	**	**	.280
-376	9.725	.055		10.145	10.329	10.326	9.984	**	**	**	.280
-377	9.975	.055		10.395	10.584	10.581	10.239	**	**	**	.280
-378	10.475	.060		10.895	11.099	11.096	10.754	**	**	**	.280
-379	10.975	.060		11.395	11.609	11.606	11.264	**	**	**	.280
-380	11.475	.065		11.895	12.124	12.121	11.779	**	**	**	.280
-381	11.975	.065		12.395	12.634	12.631	12.289	**	**	**	.280
-382	12.975	.065		13.395	13.654	13.651	13.309	**	**	**	.280
-383	13.975	.070		14.395	14.679	14.676	14.334	**	**	**	.280
-384	14.975	.070		15.395	15.699	15.696	15.354	**	**	**	.280
-385	15.955	.075		16.375	16.703	16.700	16.359	**	**	**	.280
-386	16.955	.080	▼	17.375	17.728	17.725	17.384	**	**	**	.280

****NOTE:** Standard glands are not provided for the larger diameter bore-mounted applications because Diameter F becomes larger than the outside diameter of the O-Ring seal, making the installation of the seal impractical.



Surface finish (S):

- 32 for liquids
- 16 for vacuum and gases

Finishes are RMS values

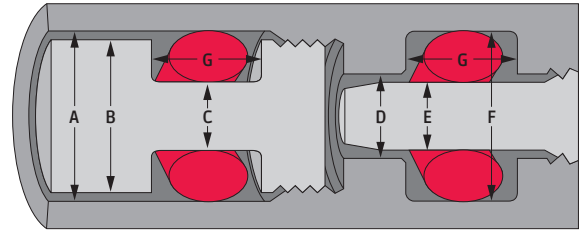


TABLE C Static Radial Seal Gland Dimensions

AS568 Number	O-Ring Dimensions				Cylinder Bore Diameter A	Piston Diameter B	Piston Groove Diameter C	Rod Bore Diameter D	Rod Diameter E	Rod Gland Diameter F	Gland Width G
	I.D.	± Tol.	W	(O.D.)							
Tolerance		±0.005			+0.003 -0.000	+0.000 -0.003	+0.000 -0.008	+0.004 -0.000	+0.000 -0.003	+0.010 -0.000	+0.010 -0.000
-387	17.955	.085	0.210	18.375	18.753	18.750	18.409	**	**	**	.280
-388	18.955	.090		19.375	19.778	19.775	19.434	**	**	**	.280
-389	19.955	.095		20.375	20.803	20.800	20.459	**	**	**	.280
-390	20.955	.095		21.375	21.824	21.821	21.479	**	**	**	.280
-391	21.955	.100		22.375	22.849	22.846	22.504	**	**	**	.280
-392	22.940	.105		23.360	23.859	23.856	23.514	**	**	**	.280
-393	23.940	.110		24.360	24.884	24.881	24.539	**	**	**	.280
-394	24.940	.115		25.360	25.909	25.906	25.564	**	**	**	.280
-395	25.940	.120		26.360	26.934	26.931	26.589	**	**	**	.280
Tolerance		±0.006			+0.004 -0.000	+0.000 -0.003	+0.000 -0.010	+0.004 -0.000	+0.000 -0.003	+0.010 -0.000	+0.010 -0.000
-425	4.475	.033	0.275	5.025	5.065	5.061	4.608	4.606	4.601	5.059	.350
-426	4.600	.033		5.150	5.193	5.189	4.736	4.734	4.729	5.187	.350
-427	4.725	.033		5.275	5.321	5.317	4.863	4.861	4.856	5.315	.350
-428	4.850	.033		5.400	5.449	5.445	4.991	4.989	4.984	5.443	.350
-429	4.975	.037		5.525	5.579	5.575	5.122	5.120	5.115	5.573	.350
-430	5.100	.037		5.650	5.707	5.703	5.250	5.248	5.243	5.701	.350
-431	5.225	.037		5.775	5.835	5.831	5.377	5.375	5.370	5.829	.350
-432	5.350	.037		5.900	5.963	5.959	5.505	5.503	5.498	5.957	.350
-433	5.475	.037		6.025	6.090	6.086	5.632	5.630	5.625	6.084	.350
-434	5.600	.037		6.150	6.218	6.214	5.760	5.758	5.753	6.212	.350
-435	5.725	.037		6.275	6.344	6.340	5.887	5.885	5.880	6.338	.350
-436	5.850	.037		6.400	6.472	6.468	6.015	6.013	6.008	6.466	.350
-437	5.975	.037		6.525	6.599	6.595	6.142	6.140	6.135	6.593	.350
-438	6.225	.040		6.775	6.857	6.853	6.400	6.398	6.393	6.851	.350
-439	6.475	.040		7.025	7.112	7.108	6.655	6.653	6.648	7.106	.350
-440	6.725	.040		7.275	7.367	7.363	6.910	6.908	6.903	7.361	.350
-441	6.975	.040		7.525	7.623	7.619	7.165	7.163	7.158	7.617	.350
-442	7.225	.045		7.775	7.882	7.878	7.425	7.423	7.418	7.876	.350
-443	7.475	.045		8.025	8.137	8.133	7.680	7.678	7.673	8.131	.350
-444	7.725	.045		8.275	8.392	8.388	7.935	7.933	7.928	8.386	.350

****NOTE:** Standard glands are not provided for the larger diameter bore-mounted applications because Diameter F becomes larger than the outside diameter of the O-Ring seal, making the installation of the seal impractical.

TABLE C Static Radial Seal Gland Dimensions

AS568 Number	O-Ring Dimensions				Cylinder Bore Diameter A	Piston Diameter B	Piston Groove Diameter C	Rod Bore Diameter D	Rod Diameter E	Rod Gland Diameter F	Gland Width G
	I.D.	± Tol.	W	(O.D.)							
Tolerance	±0.006				+0.004 -0.000	+0.000 -0.003	+0.000 -0.010	+0.004 -0.000	+0.000 -0.003	+0.010 -0.000	+0.010 -0.000
-445	7.975	.045	0.275	8.525	8.648	8.644	8.190	8.188	8.183	8.642	.350
-446	8.475	.055		9.025	9.168	9.164	8.711	8.709	8.704	9.162	.350
-447	8.975	.055		9.525	9.678	9.674	9.221	9.219	9.214	9.672	.350
-448	9.475	.055		10.025	10.188	10.184	9.731	**	**	**	.350
-449	9.975	.055		10.525	10.699	10.695	10.241	**	**	**	.350
-450	10.475	.060		11.025	11.213	11.209	10.756	**	**	**	.350
-451	10.975	.060		11.525	11.724	11.720	11.266	**	**	**	.350
-452	11.475	.060		12.025	12.233	12.229	11.776	**	**	**	.350
-453	11.975	.060		12.525	12.743	12.739	12.286	**	**	**	.350
-454	12.475	.060		13.025	13.253	13.249	12.796	**	**	**	.350
-455	12.975	.060		13.525	13.763	13.759	13.306	**	**	**	.350
-456	13.475	.070		14.025	14.283	14.279	13.826	**	**	**	.350
-457	13.975	.070		14.525	14.793	14.789	14.336	**	**	**	.350
-458	14.475	.070		15.025	15.303	15.299	14.846	**	**	**	.350
-459	14.975	.070		15.525	15.813	15.809	15.356	**	**	**	.350
-460	15.475	.070		16.025	16.323	16.319	15.866	**	**	**	.350
-461	15.955	.075		16.505	16.818	16.814	16.361	**	**	**	.350
-462	16.455	.075		17.005	17.328	17.324	16.871	**	**	**	.350
-463	16.955	.080		17.505	17.843	17.839	17.386	**	**	**	.350
-464	17.455	.085		18.005	18.358	18.354	17.901	**	**	**	.350
-465	17.955	.085		18.505	18.868	18.864	18.411	**	**	**	.350
-466	18.455	.085		19.005	19.378	19.374	18.921	**	**	**	.350
-467	18.955	.090		19.505	19.893	19.889	19.436	**	**	**	.350
-468	19.455	.090		20.005	20.403	20.399	19.946	**	**	**	.350
-469	19.955	.090		20.505	20.918	20.914	20.461	**	**	**	.350
-470	20.955	.090		21.505	21.938	21.934	21.481	**	**	**	.350
-471	21.955	.100		22.505	22.963	22.959	22.506	**	**	**	.350
-472	22.940	.105		23.490	23.973	23.969	23.516	**	**	**	.350
-473	23.940	.110		24.490	24.998	24.994	24.541	**	**	**	.350
-474	24.940	.115		25.490	26.023	26.019	25.566	**	**	**	.350
-475	25.940	.120	▼	26.490	27.048	27.044	26.591	**	**	**	.350

****NOTE:** Standard glands are not provided for the larger diameter bore-mounted applications because Diameter F becomes larger than the outside diameter of the O-Ring seal, making the installation of the seal impractical.