



Seal Types & Gland Design



One general guideline for good O-ring application and design is to maintain a range of % squeeze on the O-ring (~10-40% for static and no more than 30% for dynamic).

No less than 75% of the seal cross-section should be contained within the groove to ensure the seal does not “roll” or extrude out of the groove. See Section 5 for more detail on determining the allowable clearance gap.

Finally, be sure to consider the void/volume relationship in worse case tolerance conditions. The maximum O-ring volume should not exceed 90% of the minimum gland void. The groove width may be increased to provide additional void.

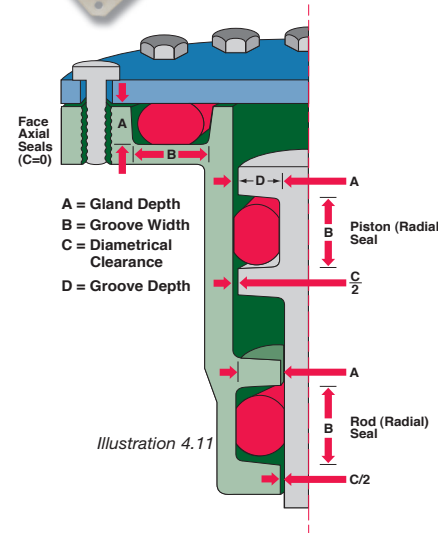


Table A O-Ring Gland Design For Dynamic Seals

Note: Table A contains general sealing guidelines. More specific information is available throughout this guide.

O-Ring Cross Section	Gland Depth	Squeeze		Diametrical Clearance Max.	Groove Width. ±.005			Groove Radius	Eccentricity Max.
		Inches	%		No Backup Rings	One Backup Ring	Two Backup Rings		
.040	.031/.033	.004/.012	11-28	.004	.063	-	-	.005-.008	.002
.050	.039/.041	.006/.014	13-26	.004	.073	-	-	.005-.008	.002
.060	.047/.049	.008/.016	14-25	.004	.084	-	-	.005-.008	.002
.070	.055/.057	.010/.018	15-25	.004	.095	.150	.208	.005-.015	.002
.103	.087/.090	.010/.019	10-18	.005	.145	.187	.249	.005-.020	.003
.139	.119/.123	.012/.024	9-17	.006	.185	.222	.301	.005-.030	.004
.210	.183/.188	.017/.032	8.5-15	.006	.285	.338	.428	.005-.050	.006
.275	.234/.240	.029/.047	10.5-17	.007	.375	.440	.579	.005-.060	.008

O-Ring Gland Design For Static Seals

O-Ring Cross Section	Gland Depth		Squeeze				Dia-metrical Clearance Max.	Groove Width. ±.005			Groove Radius	Eccentricity Max
	Radial	Axial	Radial →○←		Axial ↑○↓			No Backup Rings	One Backup Ring	Two Backup Rings		
			Inches	%	Inches	%						
†.020	.013-.014	.013-.014	.004-.009	22-41	.004-.009	22-41	.002	.035	-	-	-	.0015
.030	.020-.022	.020-.022	.005-.013	19-39	.005-.013	19-39	.003	.045	-	-	-	.0015
.040	.027-.030	.027-.030	.007-.016	19-37	.007-.016	19-37	.003	.060	-	-	.005-.008	.002
.050	.035-.039	.034-.038	.008-.018	17-34	.009-.019	19-36	.004	.075	-	-	.005-.008	.002
.060	.042-.047	.042-.046	.010-.021	18-33	.011-.021	19-33	.004	.090	-	-	.005-.008	.002
.070	.050-.055	.049-.054	.012-.023	18-32	.013-.024	19-33	.004	.105	.150	.208	.005-.015	.002
.103	.080-.086	.075-.081	.014-.026	14-25	.019-.031	19-29	.005	.146	.182	.244	.005-.020	.003
.139	.110-.116	.100-.108	.019-.033	14-23	.027-.043	20-30	.006	.195	.217	.296	.005-.030	.004
.210	.170-.176	.155-.165	.029-.045	14-21	.040-.060	20-28	.006	.280	.333	.423	.005-.050	.006
.275	.225-.235	.205-.215	.034-.056	13-20	.054-.076	20-27	.007	.350	.435	.574	.005-.060	.008

†Note: It is recommended that an O-ring with tighter CS tolerance (±.002) be requested.

Static Gland Detail

Surface finish: S
 32 for liquids
 16 for vacuum and gases
 Finishes are RMS values

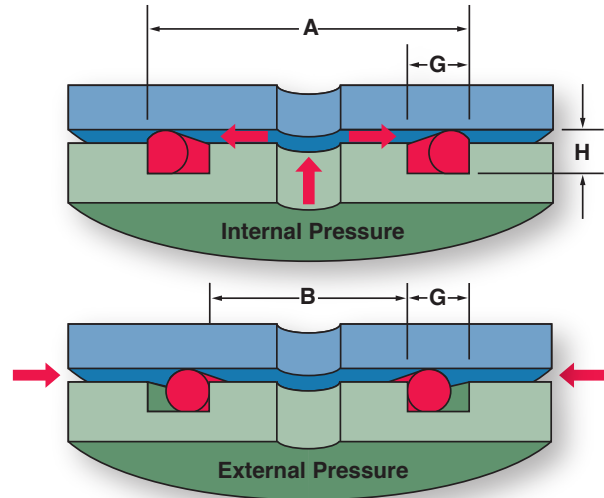
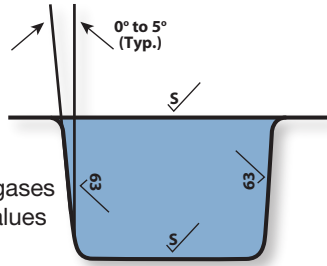


Table B Static Axial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions			Internal Pressure	External Pressure	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)	Diameter A	Diameter B		
Tolerance				+0.005 -0.000	+0.000 -0.005	+0.010 -0.000	+0.005 -0.000
-004	.070 ± .005	.070 ± .003	.210	**	.075	.125	.049
-005	.101 ± .005		.241	**	.106	.125	.049
-006	.114 ± .005		.254	**	.119	.125	.049
-007	.145 ± .005		.285	**	.150	.125	.049
-008	.176 ± .005		.316	**	.181	.125	.049
-009	.208 ± .005		.348	**	.213	.125	.049
-010	.239 ± .005		.379	**	.244	.125	.049
-011	.301 ± .005		.441	.436	.306	.125	.049
-012	.364 ± .005		.504	.499	.369	.125	.049
-013	.426 ± .005		.566	.561	.431	.125	.049
-014	.489 ± .005		.629	.624	.494	.125	.049
-015	.551 ± .007		.691	.686	.556	.125	.049
-016	.614 ± .009		.754	.749	.619	.125	.049
-017	.676 ± .009		.816	.811	.681	.125	.049
-018	.739 ± .009		.879	.874	.744	.125	.049
-019	.801 ± .009		.941	.936	.806	.125	.049
-020	.864 ± .009		1.004	.999	.869	.125	.049
-021	.926 ± .009		1.066	1.061	.931	.125	.049
-022	.989 ± .009		1.129	1.124	.994	.125	.049
-023	1.051 ± .010		1.191	1.186	1.056	.125	.049

*Note: The current revision of the Standard is "C" but it changes periodically.
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Seal Types & Gland Design



Table B Static Axial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions			Internal Pressure	External Pressure	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)	Diameter A	Diameter B		
Tolerance				+0.05 -0.00	+0.00 -0.05	+0.010 -0.000	+0.005 -0.000
-024	1.114 ± .010	.070 ± .003	1.254	1.249	1.119	.125	.049
-025	1.176 ± .011		1.316	1.311	1.181	.125	.049
-026	1.239 ± .011		1.379	1.374	1.244	.125	.049
-027	1.301 ± .011		1.441	1.436	1.306	.125	.049
-028	1.364 ± .013		1.504	1.499	1.368	.125	.049
-029	1.489 ± .013		1.629	1.624	1.494	.125	.049
-030	1.614 ± .013		1.754	1.749	1.619	.125	.049
-031	1.739 ± .015		1.879	1.874	1.744	.125	.049
-032	1.864 ± .015		2.004	1.999	1.869	.125	.049
-033	1.989 ± .018		2.129	2.124	1.994	.125	.049
-034	2.114 ± .018		2.254	2.249	2.119	.125	.049
-035	2.239 ± .018		2.379	2.374	2.244	.125	.049
-036	2.364 ± .018		2.504	2.499	2.369	.125	.049
-037	2.489 ± .018		2.629	2.624	2.494	.125	.049
-038	2.614 ± .020		2.754	2.749	2.619	.125	.049
-039	2.739 ± .020		2.879	2.874	2.744	.125	.049
-040	2.864 ± .020		3.004	2.999	2.869	.125	.049
-041	2.989 ± .024		3.129	3.124	2.994	.125	.049
-042	3.239 ± .024		3.379	3.374	3.244	.125	.049
-043	3.489 ± .024		3.629	3.624	3.494	.125	.049
-044	3.739 ± .027		3.879	3.874	3.744	.125	.049
-045	3.989 ± .027		4.129	4.124	3.994	.125	.049
-046	4.239 ± .030		4.379	4.374	4.244	.125	.049
-047	4.489 ± .030		4.629	4.624	4.494	.125	.049
-048	4.739 ± .030		4.879	4.874	4.744	.125	.049
-049	4.989 ± .037		5.129	5.124	4.994	.125	.049
-050	5.239 ± .037		5.379	5.374	5.244	.125	.049
-102	.049 ± .005	.103 ± .003	0.255	**	.054	.170	.075
-103	.081 ± .005		0.287	**	.086	.170	.075
-104	.112 ± .005		0.318	**	.117	.170	.075

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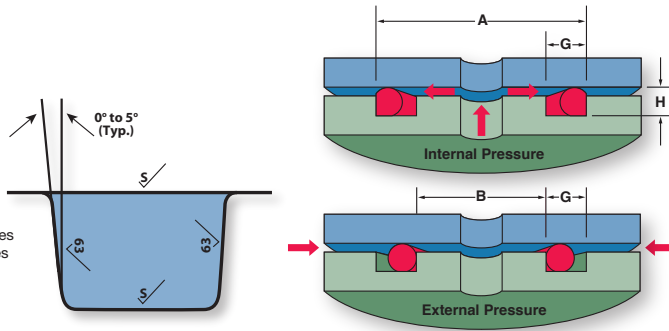


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	I.D. ± Tol.	W. ± Tol.	O.D. (ref)	Diameter A	Diameter B		
Tolerance				+005 -000	+000 -005	+010 -000	+005 -000
-105	.143 ± .005	.103 ± .003	0.349	**	.148	.170	.075
-106	.174 ± .005		0.380	**	.179	.170	.075
-107	.206 ± .005		0.412	**	.211	.170	.075
-108	.237 ± .005		0.443	**	.242	.170	.075
-109	.299 ± .005		0.505	**	.304	.170	.075
-110	.362 ± .005		0.568	.563	.367	.170	.075
-111	.424 ± .005		0.630	.625	.429	.170	.075
-112	.487 ± .005		0.693	.688	.492	.170	.075
-113	.549 ± .005		0.755	.750	.554	.170	.075
-114	.612 ± .009		0.818	.813	.617	.170	.075
-115	.674 ± .009		0.880	.875	.679	.170	.075
-116	.737 ± .009		0.943	.938	.742	.170	.075
-117	.799 ± .010		1.005	1.000	.804	.170	.075
-118	.862 ± .010		1.068	1.063	.867	.170	.075
-119	.924 ± .010		1.130	1.125	.929	.170	.075
-120	.987 ± .010		1.193	1.188	.992	.170	.075
-121	1.049 ± .010		1.255	1.250	1.054	.170	.075
-122	1.112 ± .010		1.318	1.313	1.117	.170	.075
-123	1.174 ± .012		1.380	1.375	1.179	.170	.075
-124	1.237 ± .012		1.443	1.438	1.242	.170	.075
-125	1.299 ± .012		1.505	1.500	1.304	.170	.075
-126	1.362 ± .012		1.568	1.563	1.367	.170	.075
-127	1.424 ± .012		1.630	1.625	1.429	.170	.075
-128	1.487 ± .012		1.693	1.688	1.492	.170	.075
-129	1.549 ± .015		1.755	1.750	1.554	.170	.075
-130	1.612 ± .015		1.818	1.813	1.617	.170	.075
-131	1.674 ± .015		1.880	1.875	1.679	.170	.075
-132	1.737 ± .015		1.943	1.938	1.742	.170	.075
-133	1.799 ± .015		2.005	2.000	1.804	.170	.075
-134	1.862 ± .015		2.068	2.063	1.867	.170	.075

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	I.D. ± Tol.	W. ± Tol.	O.D. (ref)	Diameter A	Diameter B		
Tolerance				+0.05 -0.00	+0.00 -0.05	+0.010 -0.000	+0.005 -0.000
-135	1.925 ± .017	.103 ± .003	2.131	2.126	1.930	.170	.075
-136	1.987 ± .017		2.193	2.188	1.992	.170	.075
-137	2.050 ± .017		2.256	2.251	2.055	.170	.075
-138	2.112 ± .017		2.318	2.313	2.117	.170	.075
-139	2.175 ± .017		2.381	2.376	2.180	.170	.075
-140	2.237 ± .017		2.443	2.438	2.242	.170	.075
-141	2.300 ± .020		2.506	2.501	2.305	.170	.075
-142	2.362 ± .020		2.568	2.563	2.367	.170	.075
-143	2.425 ± .020		2.631	2.626	2.430	.170	.075
-144	2.487 ± .020		2.693	2.688	2.492	.170	.075
-145	2.550 ± .020		2.756	2.751	2.555	.170	.075
-146	2.612 ± .020		2.818	2.813	2.617	.170	.075
-147	2.675 ± .022		2.881	2.876	2.680	.170	.075
-148	2.737 ± .022		2.943	2.938	2.742	.170	.075
-149	2.800 ± .022		3.006	3.001	2.805	.170	.075
-150	2.862 ± .022		3.068	3.063	2.867	.170	.075
-151	2.987 ± .024		3.193	3.188	2.992	.170	.075
-152	3.237 ± .024		3.443	3.438	3.242	.170	.075
-153	3.487 ± .024		3.693	3.688	3.492	.170	.075
-154	3.737 ± .028		3.943	3.938	3.742	.170	.075
-155	3.987 ± .028		4.193	4.188	3.992	.170	.075
-156	4.237 ± .030		4.443	4.438	4.242	.170	.075
-157	4.487 ± .030		4.693	4.688	4.492	.170	.075
-158	4.737 ± .030		4.943	4.938	4.742	.170	.075
-159	4.987 ± .035		5.193	5.188	4.992	.170	.075
-160	5.237 ± .035		5.443	5.438	5.242	.170	.075
-161	5.487 ± .035		5.693	5.688	5.492	.170	.075
-162	5.737 ± .035		5.943	5.938	5.742	.170	.075
-163	5.987 ± .035		6.193	6.188	5.992	.170	.075
-164	6.237 ± .040		6.443	6.438	6.242	.170	.075

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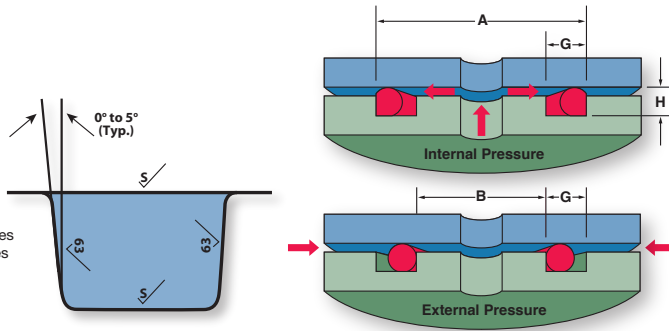


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AS-568* Number	O-ring Dimensions			Internal Pressure	External Pressure	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)	Diameter A	Diameter B		
Tolerance				+0.005 -0.000	+0.000 -0.005	+0.010 -0.000	+0.005 -0.000
-165	6.487 ± .040	.103 ± .003	6.693	6.688	6.492	.170	.075
-166	6.737 ± .040		6.943	6.938	6.742	.170	.075
-167	6.987 ± .040		7.193	7.188	6.992	.170	.075
-168	7.237 ± .045		7.443	7.438	7.242	.170	.075
-169	7.487 ± .045		7.693	7.688	7.492	.170	.075
-170	7.737 ± .045		7.943	7.938	7.742	.170	.075
-171	7.987 ± .045		8.193	8.188	7.992	.170	.075
-172	8.237 ± .050		8.443	8.438	8.242	.170	.075
-173	8.487 ± .050		8.693	8.688	8.492	.170	.075
-174	8.737 ± .050		8.943	8.938	8.742	.170	.075
-175	8.987 ± .050		9.193	9.188	8.992	.170	.075
-176	9.237 ± .055		9.443	9.438	9.242	.170	.075
-177	9.487 ± .055		9.693	9.688	9.492	.170	.075
-178	9.737 ± .055		9.943	9.939	9.742	.170	.075
-201	.171 ± .005	.139 ± .004	0.449	**	.176	.210	.107
-202	.234 ± .005		0.512	**	.239	.210	.107
-203	.296 ± .005		0.574	**	.301	.210	.107
-204	.359 ± .005		0.637	**	.364	.210	.107
-205	.421 ± .005		0.699	.694	.426	.210	.107
-206	.484 ± .005		0.762	.757	.489	.210	.107
-207	.546 ± .007		0.824	.819	.551	.210	.107
-208	.609 ± .009		0.887	.882	.614	.210	.107
-209	.671 ± .009		0.949	.944	.676	.210	.107
-210	.734 ± .010		1.012	1.007	.739	.210	.107
-211	.796 ± .010		1.074	1.069	.801	.210	.107
-212	.859 ± .010		1.137	1.132	.864	.210	.107
-213	.921 ± .010		1.199	1.194	.926	.210	.107
-214	.984 ± .010		1.262	1.257	.989	.210	.107
-215	1.046 ± .010		1.324	1.319	1.051	.210	.107
-216	1.109 ± .012		1.387	1.382	1.114	.210	.107

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AS-568* Number	O-ring Dimensions			Internal Pressure	External Pressure	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)	Diameter A	Diameter B		
Tolerance				+0.05 -0.00	+0.00 -0.05	+0.010 -0.000	+0.005 -0.000
-217	1.171 ± .012	.139 ± .004	1.449	1.444	1.176	.210	.107
-218	1.234 ± .012		1.512	1.507	1.239	.210	.107
-219	1.296 ± .012		1.574	1.569	1.301	.210	.107
-220	1.359 ± .012		1.637	1.632	1.364	.210	.107
-221	1.421 ± .012		1.699	1.694	1.426	.210	.107
-222	1.484 ± .015		1.762	1.757	1.489	.210	.107
-223	1.609 ± .015		1.887	1.882	1.614	.210	.107
-224	1.734 ± .015		2.012	2.007	1.739	.210	.107
-225	1.859 ± .018		2.137	2.132	1.864	.210	.107
-226	1.984 ± .018		2.262	2.257	1.989	.210	.107
-227	2.109 ± .018		2.387	2.382	2.114	.210	.107
-228	2.234 ± .020		2.512	2.507	2.239	.210	.107
-229	2.359 ± .020		2.637	2.632	2.364	.210	.107
-230	2.484 ± .020		2.762	2.757	2.489	.210	.107
-231	2.609 ± .020		2.887	2.882	2.614	.210	.107
-232	2.734 ± .024		3.012	3.007	2.739	.210	.107
-233	2.859 ± .024		3.137	3.132	2.864	.210	.107
-234	2.984 ± .024		3.262	3.257	2.989	.210	.107
-235	3.109 ± .024		3.387	3.382	3.114	.210	.107
-236	3.234 ± .024		3.512	3.507	3.239	.210	.107
-237	3.359 ± .024		3.637	3.632	3.364	.210	.107
-238	3.484 ± .024		3.762	3.757	3.489	.210	.107
-239	3.609 ± .028		3.887	3.882	3.614	.210	.107
-240	3.734 ± .028		4.012	4.007	3.739	.210	.107
-241	3.859 ± .028		4.137	4.132	3.864	.210	.107
-242	3.984 ± .028		4.262	4.257	3.989	.210	.107
-243	4.109 ± .028		4.387	4.382	4.114	.210	.107
-244	4.234 ± .030		4.512	4.507	4.239	.210	.107
-245	4.359 ± .030		4.637	4.632	4.364	.210	.107
-246	4.484 ± .030		4.762	4.757	4.489	.210	.107

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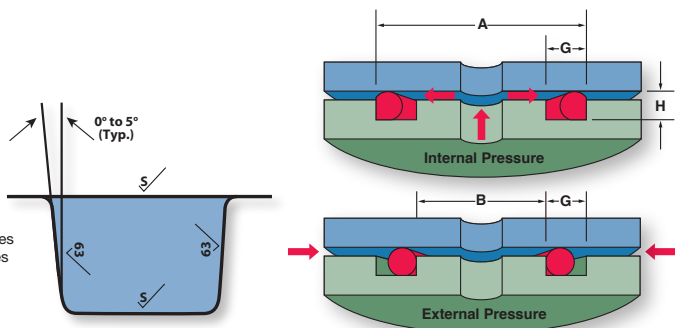


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AS-568* Number	O-ring Dimensions			Internal Pressure	External Pressure	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)	Diameter A	Diameter B		
Tolerance				+0.005 -0.000	+0.000 -0.005	+0.010 -0.000	+0.005 -0.000
-247	4.609 ± .030	.139 ± .004	4.887	4.882	4.614	.210	.107
-248	4.734 ± .030		5.012	5.007	4.739	.210	.107
-249	4.859 ± .035		5.137	5.132	4.864	.210	.107
-250	4.984 ± .035		5.262	5.257	4.989	.210	.107
-251	5.109 ± .035		5.387	5.382	5.114	.210	.107
-252	5.234 ± .035		5.512	5.507	5.239	.210	.107
-253	5.359 ± .035		5.637	5.632	5.359	.210	.107
-254	5.484 ± .035		5.762	5.757	5.489	.210	.107
-255	5.609 ± .035		5.887	5.882	5.614	.210	.107
-256	5.734 ± .035		6.012	6.007	5.739	.210	.107
-257	5.859 ± .035		6.137	6.132	5.864	.210	.107
-258	5.984 ± .035		6.262	6.257	5.989	.210	.107
-259	6.234 ± .040		6.512	6.507	6.239	.210	.107
-260	6.484 ± .040		6.762	6.757	6.489	.210	.107
-261	6.734 ± .040		7.012	7.007	6.739	.210	.107
-262	6.984 ± .040		7.262	7.257	6.989	.210	.107
-263	7.234 ± .045		7.512	7.507	7.239	.210	.107
-264	7.484 ± .045		7.762	7.757	7.489	.210	.107
-265	7.734 ± .045		8.012	8.007	7.739	.210	.107
-266	7.984 ± .045		8.262	8.257	7.989	.210	.107
-267	8.234 ± .050		8.512	8.507	8.239	.210	.107
-268	8.484 ± .050		8.762	8.757	8.489	.210	.107
-269	8.734 ± .050		9.012	9.007	8.739	.210	.107
-270	8.984 ± .050		9.262	9.257	8.989	.210	.107
-271	9.234 ± .055		9.512	9.507	9.239	.210	.107
-272	9.484 ± .055		9.762	9.757	9.489	.210	.107
-273	9.734 ± .055		10.012	10.007	9.739	.210	.107
-274	9.984 ± .055		10.262	10.257	9.989	.210	.107
-275	10.484 ± .055		10.762	10.757	10.489	.210	.107
-276	10.984 ± .065		11.262	11.257	10.989	.210	.107

*Note: The current revision of the Standard is "C" but it changes periodically.
 **O-Ring seal sizes not listed are not recommended for axial seals because the seal ID after installation becomes too small for practical use.



Seal Types & Gland Design



Table B Static Axial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions			Internal Pressure	External Pressure	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)	Diameter A	Diameter B		
Tolerance				+0.005 -0.000	+0.000 -0.005	+0.010 -0.000	+0.005 -0.000
-277	11.484 ± .065	.139 ± .004	11.762	11.757	11.489	.210	.107
-278	11.984 ± .065		12.262	12.257	11.989	.210	.107
-279	12.984 ± .065		13.262	13.257	12.989	.210	.107
-280	13.984 ± .065		14.262	14.257	13.989	.210	.107
-281	14.984 ± .065		15.262	15.257	14.989	.210	.107
-282	15.955 ± .075		16.233	16.228	15.960	.210	.107
-283	16.955 ± .080		17.233	17.228	16.960	.210	.107
-284	17.955 ± .085	↓	18.233	18.228	17.960	.210	.107
-309	.412 ± .005	.210 ± .005	0.832	**	.417	.300	.169
-310	.475 ± .005		0.895	.890	.480	.300	.169
-311	.537 ± .007		0.957	.952	.542	.300	.169
-312	.600 ± .009		1.020	1.015	.605	.300	.169
-313	.662 ± .009		1.082	1.077	.667	.300	.169
-314	.725 ± .010		1.145	1.140	.730	.300	.169
-315	.787 ± .010		1.207	1.202	.792	.300	.169
-316	.850 ± .010		1.270	1.265	.855	.300	.169
-317	.912 ± .010		1.332	1.327	.917	.300	.169
-318	.975 ± .010		1.395	1.390	.980	.300	.169
-319	1.037 ± .010		1.457	1.452	1.042	.300	.169
-320	1.100 ± .012		1.520	1.515	1.105	.300	.169
-321	1.162 ± .012		1.582	1.577	1.167	.300	.169
-322	1.225 ± .012		1.645	1.640	1.230	.300	.169
-323	1.287 ± .012		1.707	1.702	1.292	.300	.169
-324	1.350 ± .012		1.770	1.765	1.355	.300	.169
-325	1.475 ± .015		1.895	1.890	1.480	.300	.169
-326	1.600 ± .015		2.020	2.015	1.605	.300	.169
-327	1.725 ± .015		2.145	2.140	1.730	.300	.169
-328	1.850 ± .015		2.270	2.265	1.855	.300	.169
-329	1.975 ± .018		2.395	2.390	1.980	.300	.169
-330	2.100 ± .018	↓	2.520	2.515	2.105	.300	.169

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Static Gland Detail
 Surface finish: S
 32 for liquids
 16 for vacuum and gases
 Finishes are RMS values

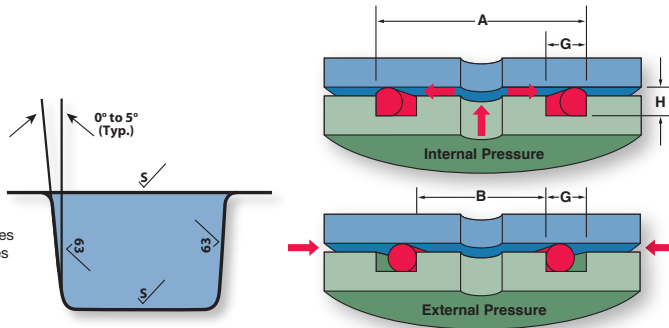


Table B Static Axial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions			Internal Pressure	External Pressure	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)	Diameter A	Diameter B		
Tolerance				+0.005 -0.000	+0.000 -0.005	+0.010 -0.000	+0.005 -0.000
-331	2.225 ± .018	.210 ± .005	2.645	2.640	2.230	.300	.169
-332	2.350 ± .018		2.770	2.765	2.355	.300	.169
-333	2.475 ± .020		2.895	2.890	2.480	.300	.169
-334	2.600 ± .020		3.020	3.015	2.605	.300	.169
-335	2.725 ± .020		3.145	3.140	2.730	.300	.169
-336	2.850 ± .020		3.270	3.265	2.855	.300	.169
-337	2.975 ± .024		3.395	3.390	2.980	.300	.169
-338	3.100 ± .024		3.520	3.515	3.105	.300	.169
-339	3.225 ± .024		3.645	3.640	3.230	.300	.169
-340	3.350 ± .024		3.770	3.765	3.355	.300	.169
-341	3.475 ± .024		3.895	3.890	3.480	.300	.169
-342	3.600 ± .028		4.020	4.015	3.605	.300	.169
-343	3.725 ± .028		4.145	4.140	3.730	.300	.169
-344	3.850 ± .028		4.270	4.265	3.855	.300	.169
-345	3.975 ± .028		4.395	4.390	3.980	.300	.169
-346	4.100 ± .028		4.520	4.515	4.105	.300	.169
-347	4.225 ± .030		4.645	4.640	4.230	.300	.169
-348	4.350 ± .030		4.770	4.765	4.355	.300	.169
-349	4.475 ± .030		4.895	4.890	4.480	.300	.169
-350	4.600 ± .030		5.020	5.015	4.605	.300	.169
-351	4.725 ± .030		5.145	5.140	4.730	.300	.169
-352	4.850 ± .030		5.270	5.265	4.855	.300	.169
-353	4.975 ± .037		5.395	5.390	4.980	.300	.169
-354	5.100 ± .037		5.520	5.515	5.105	.300	.169
-355	5.225 ± .037		5.645	5.640	5.230	.300	.169
-356	5.350 ± .037		5.770	5.765	5.355	.300	.169
-357	5.475 ± .037		5.895	5.890	5.480	.300	.169
-358	5.600 ± .037		6.020	6.015	5.605	.300	.169
-359	5.725 ± .037		6.145	6.140	5.730	.300	.169
-360	5.850 ± .037		6.270	6.265	5.855	.300	.169

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Seal Types & Gland Design



Table B Static Axial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions			Internal Pressure	External Pressure	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)	Diameter A	Diameter B		
Tolerance				+0.005 -0.000	+0.000 -0.005	+0.010 -0.000	+0.005 -0.000
-361	5.975 ± .037	.210 ± .005	6.395	6.390	5.980	.300	.169
-362	6.225 ± .040		6.645	6.640	6.230	.300	.169
-363	6.475 ± .040		6.895	6.890	6.480	.300	.169
-364	6.725 ± .040		7.145	7.140	6.730	.300	.169
-365	6.975 ± .040		7.395	7.390	6.980	.300	.169
-366	7.225 ± .045		7.645	7.640	7.230	.300	.169
-367	7.475 ± .045		7.895	7.890	7.480	.300	.169
-368	7.725 ± .045		8.145	8.140	7.730	.300	.169
-369	7.975 ± .045		8.395	8.390	7.980	.300	.169
-370	8.225 ± .050		8.645	8.640	8.230	.300	.169
-371	8.475 ± .050		8.895	8.890	8.480	.300	.169
-372	8.725 ± .050		9.145	9.140	8.730	.300	.169
-373	8.975 ± .050		9.395	9.390	8.980	.300	.169
-374	9.225 ± .055		9.645	9.640	9.230	.300	.169
-375	9.475 ± .055		9.895	9.890	9.480	.300	.169
-376	9.725 ± .055		10.145	10.140	9.730	.300	.169
-377	9.975 ± .055		10.395	10.390	9.980	.300	.169
-378	10.475 ± .060		10.895	10.890	10.480	.300	.169
-379	10.975 ± .060		11.395	11.390	10.980	.300	.169
-380	11.475 ± .065		11.895	11.890	11.480	.300	.169
-381	11.975 ± .065		12.395	12.390	11.980	.300	.169
-382	12.975 ± .065		13.395	13.390	12.980	.300	.169
-383	13.975 ± .070		14.395	14.390	13.980	.300	.169
-384	14.975 ± .070		15.395	15.390	14.980	.300	.169
-385	15.955 ± .075		16.375	16.370	15.960	.300	.169
-386	16.955 ± .080		17.375	17.370	16.960	.300	.169
-387	17.955 ± .085		18.375	18.370	17.960	.300	.169
-388	18.955 ± .090		19.375	19.370	18.960	.300	.169
-389	19.955 ± .095		20.375	20.370	19.960	.300	.169
-390	20.955 ± .095		21.375	21.370	20.960	.300	.169

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Static Gland Detail
 Surface finish: S
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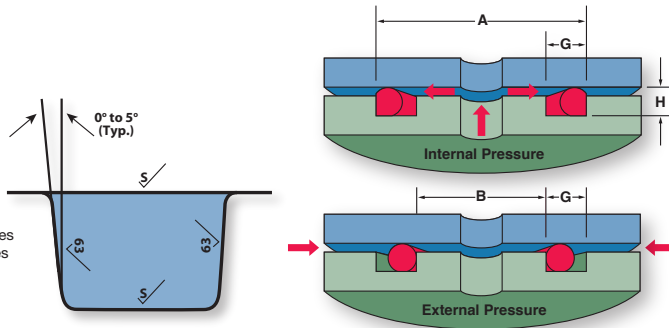


Table B Static Axial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions			Internal Pressure	External Pressure	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)	Diameter A	Diameter B		
Tolerance				+0.005 -0.000	+0.000 -0.005	+0.010 -0.000	+0.005 -0.000
-391	21.955 ± .100	.210 ± .005	22.375	22.370	21.960	.300	.169
-392	22.940 ± .105		23.360	23.355	22.945	.300	.169
-393	23.940 ± .110		24.360	24.355	23.945	.300	.169
-394	24.940 ± .115		25.360	25.355	24.945	.300	.169
-395	25.940 ± .120		26.360	26.355	25.945	.300	.169
-425	4.475 ± .033	.275 ± .006	5.025	5.020	4.480	.355	.231
-426	4.600 ± .033		5.150	5.145	4.605	.355	.231
-427	4.725 ± .033		5.275	5.270	4.730	.355	.231
-428	4.850 ± .033		5.400	5.395	4.855	.355	.231
-429	4.975 ± .037		5.525	5.520	4.980	.355	.231
-430	5.100 ± .037		5.650	5.645	5.105	.355	.231
-431	5.225 ± .037		5.775	5.770	5.230	.355	.231
-432	5.350 ± .037		5.900	5.895	5.355	.355	.231
-433	5.475 ± .037		6.025	6.020	5.480	.355	.231
-434	5.600 ± .037		6.150	6.145	5.605	.355	.231
-435	5.725 ± .037		6.275	6.270	5.730	.355	.231
-436	5.850 ± .037		6.400	6.395	5.855	.355	.231
-437	5.975 ± .037		6.525	6.520	5.980	.355	.231
-438	6.225 ± .040		6.775	6.770	6.230	.355	.231
-439	6.475 ± .040		7.025	7.020	6.480	.355	.231
-440	6.725 ± .040	7.275	7.270	6.730	.355	.231	
-441	6.975 ± .040	7.525	7.520	6.980	.355	.231	
-442	7.225 ± .045	7.775	7.770	7.230	.355	.231	
-443	7.475 ± .045	8.025	8.020	7.480	.355	.231	
-444	7.725 ± .045	8.275	8.270	7.730	.355	.231	
-445	7.975 ± .045	8.525	8.520	7.980	.355	.231	
-446	8.475 ± .055	9.025	9.020	8.480	.355	.231	
-447	8.975 ± .055	9.525	9.520	8.980	.355	.231	
-448	9.475 ± .055	10.025	10.020	9.480	.355	.231	
-449	9.975 ± .055	10.525	10.520	9.980	.355	.231	

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Seal Types & Gland Design



Table B Static Axial Seal Gland Dimensions

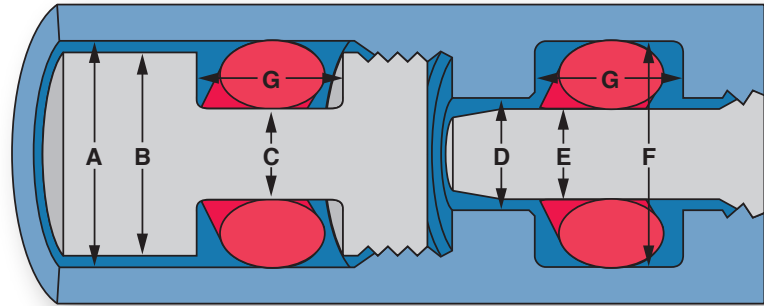
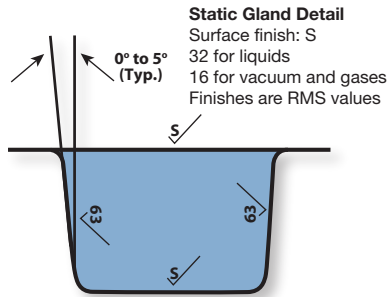
AS-568* Number	O-ring Dimensions			Internal Pressure	External Pressure	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)	Diameter A	Diameter B		
Tolerance				+0.05 -0.00	+0.00 -0.05	+0.010 -0.000	+0.005 -0.000
-450	10.475 ± .060	.275 ± .006	11.025	11.020	10.480	.355	.231
-451	10.975 ± .060		11.525	11.520	10.980	.355	.231
-452	11.475 ± .060		12.025	12.020	11.480	.355	.231
-453	11.975 ± .060		12.525	12.520	11.980	.355	.231
-454	12.475 ± .060		13.025	13.020	12.480	.355	.231
-455	12.975 ± .060		13.525	13.520	12.980	.355	.231
-456	13.475 ± .070		14.025	14.020	13.480	.355	.231
-457	13.975 ± .070		14.525	14.520	13.980	.355	.231
-458	14.475 ± .070		15.025	15.020	14.480	.355	.231
-459	14.975 ± .070		15.525	15.520	14.980	.355	.231
-460	15.475 ± .070		16.025	16.020	15.480	.355	.231
-461	15.955 ± .075		16.505	16.500	15.960	.355	.231
-462	16.455 ± .075		17.005	17.000	16.460	.355	.231
-463	16.955 ± .080		17.505	17.500	16.960	.355	.231
-464	17.455 ± .085		18.005	18.000	17.460	.355	.231
-465	17.955 ± .085		18.505	18.500	17.960	.355	.231
-466	18.455 ± .085		19.005	19.000	18.460	.355	.231
-467	18.955 ± .090		19.505	19.500	18.960	.355	.231
-468	19.455 ± .090		20.005	20.000	19.460	.355	.231
-469	19.955 ± .090		20.505	20.500	19.960	.355	.231
-470	20.955 ± .090		21.505	21.500	20.960	.355	.231
-471	21.955 ± .100		22.505	22.500	21.960	.355	.231
-472	22.940 ± .105		23.490	23.485	22.945	.355	.231
-473	23.940 ± .110		24.490	24.485	23.945	.355	.231
-474	24.940 ± .115		25.490	25.485	24.945	.355	.231
-475	25.940 ± .120		26.490	26.485	25.945	.355	.231

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Maximum Pressure of 1500 psi.

Table C Static Radial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions				A	B	C	D	E	F	G
	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Dia.	Piston Groove Dia.	Rod Bore Dia.	Rod Dia.	Rod Gland Dia.	Gland Width
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

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Seal Types & Gland Design

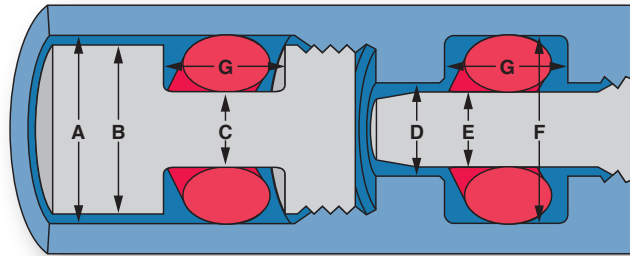
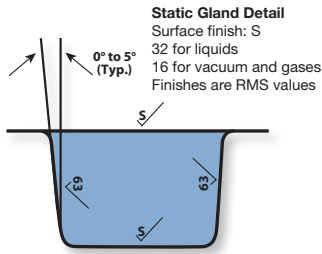


Table C

Static Radial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions				A	B	C	D	E	F	G
	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Dia.	Piston Groove Dia.	Rod Bore Dia.	Rod Dia.	Rod Gland Dia.	Gland Width
Tolerance			±0.003		+0.02 -0.00	+0.00 -0.02	+0.00 -0.03	+0.02 -0.00	+0.00 -0.02	+0.03 -0.00	+0.10 -0.00
-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		+0.03 -0.00	+0.00 -0.02	+0.00 -0.04	+0.03 -0.00	+0.00 -0.02	+0.03 -0.00	+0.10 -0.00
-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

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Maximum Pressure of 1500 psi.

Table C Static Radial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions				A	B	C	D	E	F	G
	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Dia.	Piston Groove Dia.	Rod Bore Dia.	Rod Dia.	Rod Gland Dia.	Gland Width
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
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
-133	1.799	.015	0.103	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

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Seal Types & Gland Design

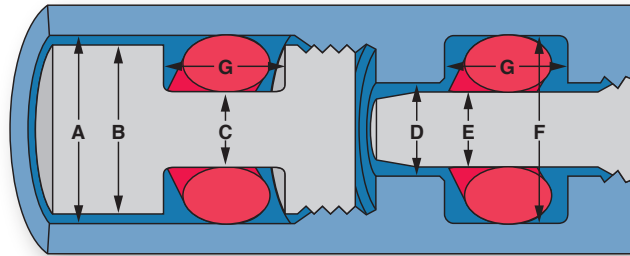
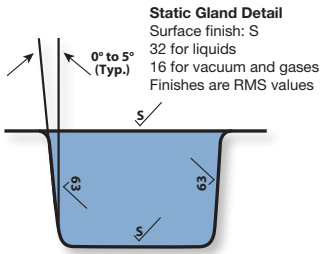


Table C

Static Radial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions				A	B	C	D	E	F	G
	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Dia.	Piston Groove Dia.	Rod Bore Dia.	Rod Dia.	Rod Gland Dia.	Gland Width
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

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Maximum Pressure of 1500 psi.

Table C Static Radial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions				A	B	C	D	E	F	G
	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Dia.	Piston Groove Dia.	Rod Bore Dia.	Rod Dia.	Rod Gland Dia.	Gland Width
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
Tolerance			±0.003		+0.003 -0.000	+0.000 -0.002	+0.000 -0.004	+0.003 -0.000	+0.000 -0.003	+0.006 -0.000	+0.010 -0.000
-174	8.737	.050	0.103	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

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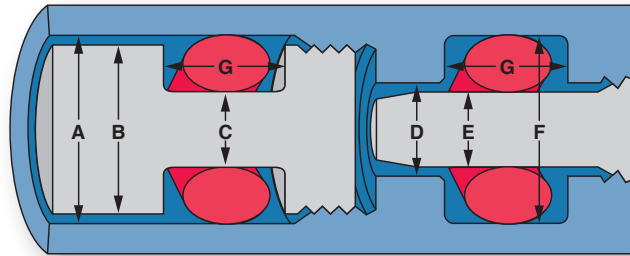
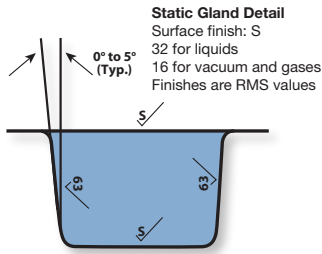
Seal Types & Gland Design



Table C Static Radial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions				A	B	C	D	E	F	G
	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Dia.	Piston Groove Dia.	Rod Bore Dia.	Rod Dia.	Rod Gland Dia.	Gland Width
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

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Maximum Pressure of 1500 psi.

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	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Piston Dia.	Piston Groove Dia.	Rod Bore Dia.	Rod Rod Dia.	Rod Gland Dia.	Gland Width
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: The current revision of the Standard is "C" but it changes periodically. ***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.



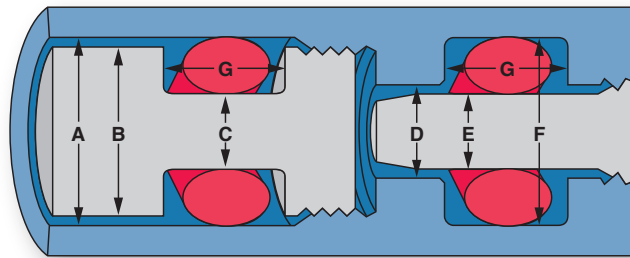
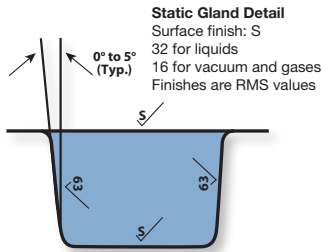
Seal Types & Gland Design



Table C Static Radial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions				A	B	C	D	E	F	G
	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Dia.	Piston Groove Dia.	Rod Bore Dia.	Rod Dia.	Rod Gland Dia.	Gland Width
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

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Maximum Pressure of 1500 psi.

Table C Static Radial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions				A	B	C	D	E	F	G
	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Dia.	Piston Groove Dia.	Rod Bore Dia.	Rod Dia.	Rod Gland Dia.	Gland Width
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

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Seal Types & Gland Design

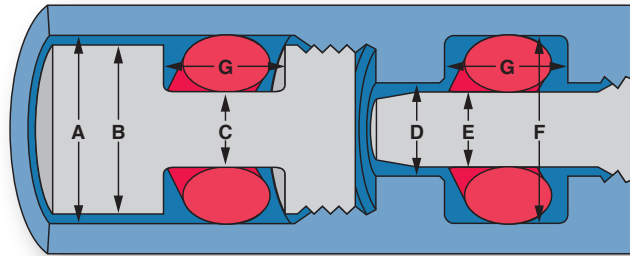
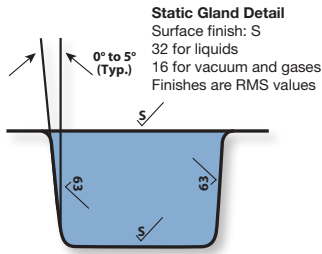


Table C

Static Radial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions				A	B	C	D	E	F	G
	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Dia.	Piston Groove Dia.	Rod Bore Dia.	Rod Dia.	Rod Gland Dia.	Gland Width
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
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
-382	12.975	.065	0.210	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

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Maximum Pressure of 1500 psi.

Table C Static Radial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions				A	B	C	D	E	F	G
	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Piston Dia.	Piston Groove Dia.	Rod Bore Dia.	Rod Rod Dia.	Rod Gland Dia.	Gland Width
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

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Seal Types & Gland Design



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AS-568* Number	O-ring Dimensions				A	B	C	D	E	F	G
	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Dia.	Piston Groove Dia.	Rod Bore Dia.	Rod Dia.	Rod Gland Dia.	Gland Width
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	19.455	.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: The current revision of the Standard is "C" but it changes periodically. ***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.

- Bore Diameter should be 0% to 5% smaller than the nominal O-ring OD
- O-ring volume is typically 90% to 95% of gland void

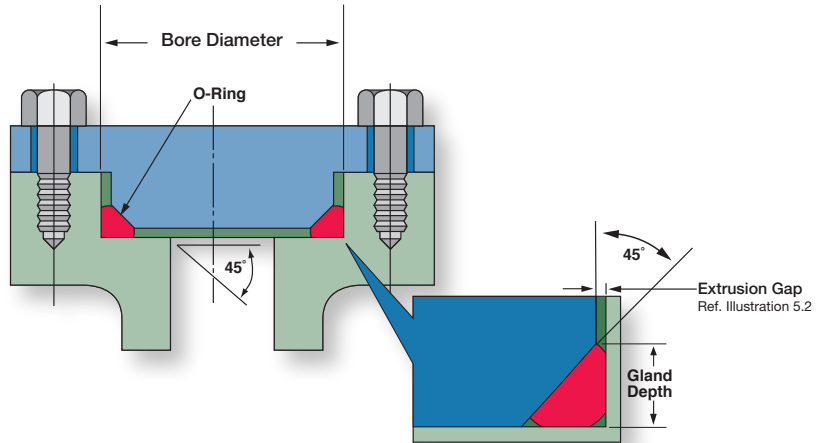


Table D Static Crush Seal Gland Dimensions (For Triangular Grooves)

AS-568* Number	O-Ring Cross Section				Gland Depth			
	In.	±	mm	±	In.	- .000 + .000	mm	- .000 + .000
004-050	.070	.003	1.78	.08	.095	.003	2.41	.08
102-178	.103	.003	2.62	.08	.137	.005	3.48	.13
201-284	.139	.004	3.53	.10	.186	.007	4.72	.18
309-395	.210	.005	5.33	.13	.279	.010	7.08	.25
425-475	.275	.006	6.99	.15	.371	.015	9.42	.38

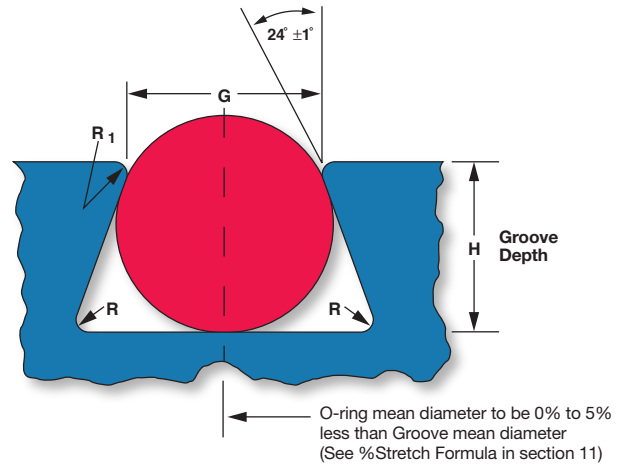


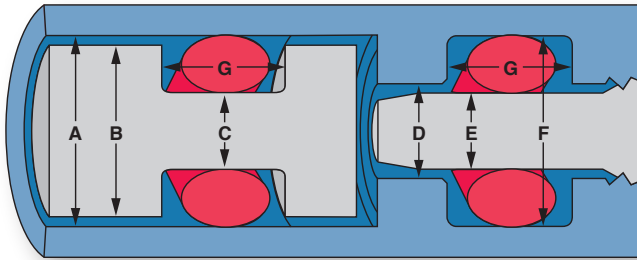
Table E Dovetail Gland Dimensions

AS-568* Number	O-Ring Cross Section				G Groove Width				H Groove Depth		R ₁ Radius		R Radius	
					Sharp Edge		Rounded Edge		In. + .000 - .002	mm + .00 - .05				
	In.	±	mm	±	In.	mm	In.	mm						
004 - 050	.070	.003	1.78	.08	.057	1.45	.063	1.60	.052	1.32	.005	.13	1/64	.40
102 - 178	.103	.003	2.62	.08	.085	2.16	.090	2.29	.083	2.11	.010	.25	1/64	.40
201 - 284	.139	.004	3.53	.10	.115	2.92	.120	3.05	.115	2.92	.010	.25	1/32	.79
309 - 395	.210	.005	5.33	.13	.160	4.06	.170	4.32	.180	4.57	.015	.38	1/32	.79
425 - 475	.275	.006	6.99	.15	.220	5.59	.235	5.97	.234	5.94	.015	.38	1/16	1.59

*Note: The current revision of the Standard is "C" but it changes periodically.



Seal Types & Gland Design



Maximum Pressure of 1500 psi.

Dynamic Gland Detail
Finishes are RMS values

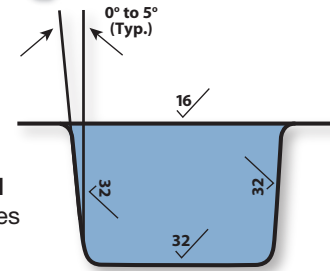
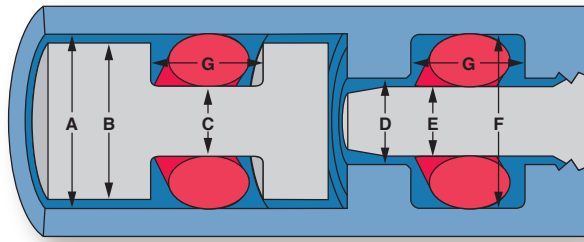


Table F Dynamic Radial Seal Gland Dimensions

AS-568* Number	ID	± Tol.	W	(OD)	A Cylinder Bore Dia.	B Piston Dia.	C Piston Gland Dia.	D Rod Bore Dia.	E Rod Dia.	F Rod Gland Dia.	G Gland Width
Tolerance			±0.003		+0.01 -0.00	+0.00 -0.01	+0.00 -0.01	+0.01 -0.00	+0.00 -0.01	+0.01 -0.00	+0.10 -0.00
-006	0.114	0.005	0.070	0.254	0.230	0.229	0.121	0.123	0.121	0.230	0.100
-007	0.145	0.005		0.285	0.262	0.261	0.152	0.154	0.152	0.262	
-008	0.176	0.005		0.316	0.294	0.293	0.183	0.185	0.183	0.294	
-009	0.208	0.005		0.348	0.326	0.325	0.215	0.217	0.215	0.326	
-010	0.239	0.005		0.379	0.358	0.357	0.246	0.248	0.246	0.358	
-011	0.301	0.005		0.441	0.421	0.420	0.308	0.310	0.308	0.421	
-012	0.364	0.005		0.504	0.484	0.483	0.371	0.373	0.371	0.484	
-013	0.426	0.005		0.566	0.546	0.545	0.433	0.435	0.433	0.546	
-014	0.489	0.005	↓	0.629	0.609	0.608	0.496	0.498	0.496	0.609	↓
Tolerance			±0.003		+0.02 -0.00	+0.00 -0.01	+0.00 -0.02	+0.02 -0.00	+0.00 -0.02	+0.02 -0.00	+0.10 -0.00
-015	0.551	0.007	0.070	0.691	0.672	0.671	0.561	0.562	0.561	0.672	
-016	0.614	0.009		0.754	0.736	0.735	0.626	0.627	0.626	0.736	
-017	0.676	0.009		0.816	0.798	0.797	0.688	0.689	0.688	0.798	
-018	0.739	0.009		0.879	0.862	0.861	0.751	0.752	0.751	0.862	
-019	0.801	0.009		0.941	0.925	0.924	0.814	0.815	0.814	0.925	
-020	0.864	0.009	↓	1.004	0.988	0.987	0.877	0.878	0.877	0.988	↓
Tolerance			±0.003		+0.02 -0.00	+0.00 -0.02	+0.00 -0.02	+0.02 -0.00	+0.00 -0.02	+0.02 -0.00	+0.10 -0.00
-106	0.174	0.005	0.103	0.380	0.351	0.350	0.182	0.184	0.182	0.351	0.135
-107	0.206	0.005		0.412	0.384	0.383	0.214	0.216	0.214	0.384	
-108	0.237	0.005		0.443	0.415	0.414	0.245	0.247	0.245	0.415	
-109	0.299	0.005		0.505	0.479	0.478	0.307	0.309	0.307	0.479	
-110	0.362	0.005		0.568	0.542	0.541	0.370	0.372	0.370	0.542	
-111	0.424	0.005	↓	0.630	0.605	0.604	0.432	0.434	0.432	0.605	↓

*Note: The current revision of the Standard is "C" but it changes periodically.



Maximum Pressure of 1500 psi.

Dynamic Gland Detail
Finishes are RMS values

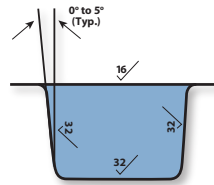


Table F Dynamic Radial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions				A	B	C	D	E	F	G
	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Dia.	Piston Gland Dia.	Rod Bore Dia.	Rod Dia.	Rod Gland Dia.	Gland Width
Tolerance			±0.003		+0.002 -0.000	+0.000 -0.001	+0.000 -0.002	+0.002 -0.000	+0.000 -0.002	+0.002 -0.000	+0.010 -0.000
-112	0.487	0.005	0.103	0.693	0.668	0.667	0.495	0.497	0.495	0.668	
-113	0.549	0.005		0.755	0.732	0.731	0.559	0.561	0.559	0.732	
-114	0.612	0.009		0.818	0.796	0.795	0.624	0.626	0.624	0.796	
-115	0.674	0.009		0.880	0.859	0.858	0.686	0.688	0.686	0.859	
-116	0.737	0.009		0.943	0.922	0.921	0.749	0.751	0.749	0.922	
-117	0.799	0.010		1.005	0.986	0.985	0.813	0.815	0.813	0.986	
-118	0.862	0.010		1.068	1.049	1.048	0.876	0.878	0.876	1.049	
-119	0.924	0.010		1.130	1.110	1.109	0.938	0.940	0.938	1.110	
-120	0.987	0.010		1.193	1.174	1.173	1.001	1.003	1.001	1.174	
-121	1.049	0.010		1.255	1.236	1.235	1.063	1.065	1.063	1.236	
-122	1.112	0.010		1.318	1.299	1.298	1.126	1.128	1.126	1.299	
-123	1.174	0.012		1.380	1.363	1.362	1.190	1.192	1.190	1.363	
-124	1.237	0.012		1.443	1.426	1.425	1.253	1.255	1.253	1.426	
-125	1.299	0.012	▼	1.505	1.489	1.488	1.316	1.318	1.316	1.489	▼
Tolerance			±0.004		+0.002 -0.000	+0.000 -0.002	+0.000 -0.002	+0.002 -0.000	+0.000 -0.002	+0.002 -0.000	+0.010 -0.000
-202	0.234	0.005	0.139	0.512	0.478	0.476	0.242	0.244	0.242	0.478	0.175
-203	0.296	0.005		0.574	0.541	0.539	0.304	0.306	0.304	0.541	
-204	0.359	0.005		0.637	0.605	0.603	0.367	0.369	0.367	0.605	
-205	0.421	0.005		0.699	0.668	0.666	0.429	0.431	0.429	0.668	
-206	0.484	0.005		0.762	0.732	0.730	0.492	0.494	0.492	0.732	
-207	0.546	0.007		0.824	0.795	0.793	0.556	0.558	0.556	0.795	
-208	0.609	0.009		0.887	0.859	0.857	0.621	0.623	0.621	0.859	
-209	0.671	0.009		0.949	0.922	0.920	0.683	0.685	0.683	0.922	
-210	0.734	0.010		1.012	0.986	0.984	0.747	0.749	0.747	0.986	
-211	0.796	0.010		1.074	1.049	1.047	0.810	0.812	0.810	1.049	
-212	0.859	0.010		1.137	1.112	1.110	0.873	0.875	0.873	1.112	
-213	0.921	0.010		1.199	1.175	1.173	0.935	0.937	0.935	1.175	
-214	0.984	0.010		1.262	1.238	1.236	0.998	1.000	0.998	1.238	
-215	1.046	0.010		1.324	1.299	1.297	1.060	1.062	1.060	1.299	
-216	1.109	0.012	▼	1.387	1.365	1.363	1.125	1.127	1.125	1.365	▼

*Note: The current revision of the Standard is "C" but it changes periodically.



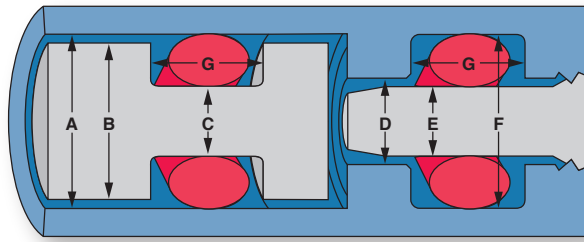
Seal Types & Gland Design



Table F Dynamic Radial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions				A	B	C	D	E	F	G
	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Dia.	Piston Gland Dia.	Rod Bore Dia.	Rod Dia.	Rod Gland Dia.	Gland Width
Tolerance			±0.004		+0.002 -0.000	+0.000 -0.002	+0.000 -0.002	+0.002 -0.000	+0.000 -0.002	+0.002 -0.000	+0.010 -0.000
-217	1.171	0.012	0.139	1.449	1.427	1.425	1.187	1.189	1.187	1.427	
-218	1.234	0.012		1.512	1.489	1.487	1.250	1.252	1.250	1.489	
-219	1.296	0.012		1.574	1.552	1.550	1.313	1.315	1.313	1.552	
-220	1.359	0.012		1.637	1.616	1.614	1.376	1.378	1.376	1.616	
-221	1.421	0.012		1.699	1.678	1.676	1.438	1.440	1.438	1.678	
-222	1.484	0.015		1.762	1.744	1.742	1.504	1.506	1.504	1.744	
-223	1.609	0.015		1.887	1.868	1.866	1.629	1.631	1.629	1.868	
-224	1.734	0.015		2.012	1.994	1.992	1.754	1.756	1.754	1.994	
-225	1.859	0.018	▼	2.137	2.122	2.120	1.883	1.885	1.883	2.122	▼
Tolerance			±0.005		+0.002 -0.000	+0.000 -0.002	+0.000 -0.002	+0.002 -0.000	+0.000 -0.002	+0.002 -0.000	+0.010 -0.000
-309	0.412	0.005	0.210	0.832	0.789	0.786	0.420	0.423	0.420	0.789	0.250
-310	0.475	0.005		0.895	0.853	0.850	0.483	0.486	0.483	0.853	
-311	0.537	0.007		0.957	0.916	0.913	0.547	0.550	0.547	0.916	
-312	0.600	0.009		1.020	0.981	0.978	0.612	0.615	0.612	0.981	
-313	0.662	0.009		1.082	1.044	1.041	0.674	0.677	0.674	1.044	
-314	0.725	0.010		1.145	1.108	1.105	0.738	0.741	0.738	1.108	
-315	0.787	0.010		1.207	1.170	1.167	0.801	0.804	0.801	1.170	
-316	0.850	0.010		1.270	1.234	1.231	0.864	0.867	0.864	1.234	
-317	0.912	0.010		1.332	1.295	1.292	0.926	0.929	0.926	1.295	
-318	0.975	0.010		1.395	1.359	1.356	0.989	0.992	0.989	1.359	
-319	1.037	0.010		1.457	1.420	1.417	1.051	1.054	1.051	1.420	
-320	1.100	0.012		1.520	1.485	1.482	1.116	1.119	1.116	1.485	
-321	1.162	0.012		1.582	1.548	1.545	1.178	1.181	1.178	1.548	
-322	1.225	0.012		1.645	1.610	1.607	1.241	1.244	1.241	1.610	
-323	1.287	0.012		1.707	1.673	1.670	1.304	1.307	1.304	1.673	
-324	1.350	0.012		1.770	1.737	1.734	1.367	1.370	1.367	1.737	
-325	1.475	0.015		1.895	1.865	1.862	1.495	1.498	1.495	1.865	
-326	1.600	0.015		2.020	1.990	1.987	1.620	1.623	1.620	1.990	
-327	1.725	0.015		2.145	2.114	2.111	1.745	1.748	1.745	2.114	
-328	1.850	0.015	▼	2.270	2.240	2.237	1.871	1.874	1.871	2.240	▼

*Note: The current revision of the Standard is "C" but it changes periodically.



Maximum Pressure of 1500 psi.

Dynamic Gland Detail
Finishes are RMS values

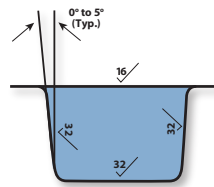


Table F Dynamic Radial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions				A	B	C	D	E	F	G
	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Dia.	Piston Gland Dia.	Rod Bore Dia.	Rod Dia.	Rod Gland Dia.	Gland Width
Tolerance			±0.005		+0.02 -0.00	+0.00 -0.02	+0.00 -0.02	+0.02 -0.00	+0.00 -0.02	+0.02 -0.00	+0.10 -0.00
-329	1.975	0.018	0.210	2.395	2.369	2.366	1.999	2.002	1.999	2.369	
-330	2.100	0.018		2.520	2.493	2.490	2.124	2.127	2.124	2.493	
-331	2.225	0.018		2.645	2.618	2.615	2.249	2.252	2.249	2.618	
-332	2.350	0.018		2.770	2.745	2.742	2.375	2.378	2.375	2.745	
-333	2.475	0.020		2.895	2.871	2.868	2.502	2.505	2.502	2.871	
-334	2.600	0.020		3.020	2.997	2.994	2.627	2.630	2.627	2.997	
-335	2.725	0.020		3.145	3.121	3.118	2.752	2.755	2.752	3.121	
-336	2.850	0.020		3.270	3.247	3.244	2.878	2.881	2.878	3.247	
-337	2.975	0.024		3.395	3.376	3.373	3.007	3.010	3.007	3.376	
-338	3.100	0.024		3.520	3.502	3.499	3.132	3.135	3.132	3.502	
-339	3.225	0.024		3.645	3.626	3.623	3.257	3.260	3.257	3.626	
-340	3.350	0.024		3.770	3.752	3.749	3.383	3.386	3.383	3.752	
-341	3.475	0.024		3.895	3.877	3.874	3.508	3.511	3.508	3.877	
-342	3.600	0.028		4.020	4.007	4.004	3.637	3.640	3.637	4.007	
-343	3.725	0.028		4.145	4.133	4.130	3.763	3.766	3.763	4.133	
-344	3.850	0.028		4.270	4.257	4.254	3.888	3.891	3.888	4.257	
-345	3.975	0.028		4.395	4.382	4.379	4.013	4.016	4.013	4.382	
-346	4.100	0.028		4.520	4.507	4.504	4.138	4.141	4.138	4.507	
-347	4.225	0.030		4.645	4.635	4.632	4.266	4.269	4.266	4.635	
-348	4.350	0.030		4.770	4.760	4.757	4.391	4.394	4.391	4.760	
-349	4.475	0.030	▼	4.895	4.885	4.882	4.516	4.519	4.516	4.885	▼
Tolerance			±0.006		+0.03 -0.00	+0.00 -0.03	+0.00 -0.03	+0.03 -0.00	+0.00 -0.03	+0.04 -0.00	+0.10 -0.00
-425	4.475	0.033	0.275	5.025	5.009	5.005	4.520	4.523	4.520	5.008	0.320
-426	4.600	0.033		5.150	5.134	5.130	4.645	4.648	4.645	5.133	
-427	4.725	0.033		5.275	5.260	5.256	4.771	4.774	4.771	5.259	
-428	4.850	0.033		5.400	5.385	5.381	4.896	4.899	4.896	5.384	
-429	4.975	0.037		5.525	5.514	5.510	5.025	5.028	5.025	5.513	
-430	5.100	0.037		5.650	5.639	5.635	5.150	5.153	5.150	5.638	
-431	5.225	0.037		5.775	5.765	5.761	5.276	5.279	5.276	5.764	
-432	5.350	0.037	▼	5.900	5.890	5.886	5.401	5.404	5.401	5.889	▼

*Note: The current revision of the Standard is "C" but it changes periodically.



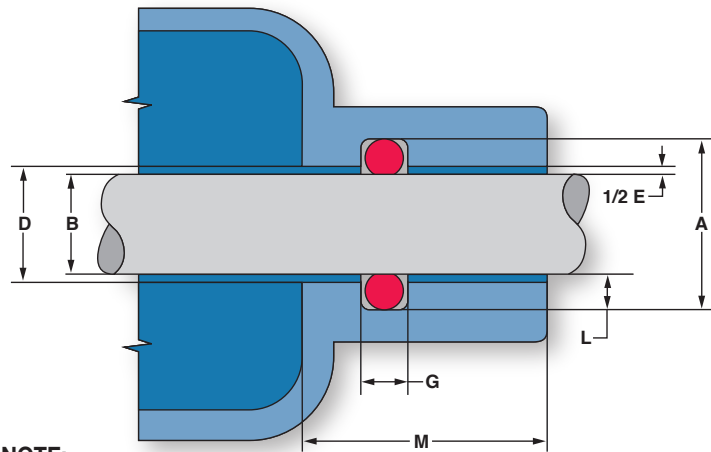
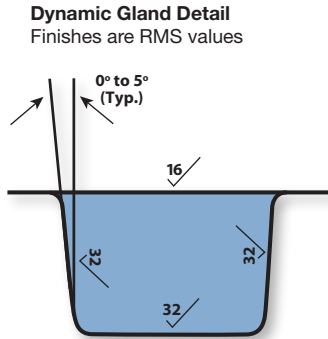
Seal Types & Gland Design



Table F Dynamic Radial Seal Gland Dimensions

AS-568* Number	O-ring Dimensions				A	B	C	D	E	F	G
	ID	± Tol.	W	(OD)	Cylinder Bore Dia.	Piston Dia.	Piston Gland Dia.	Rod Bore Dia.	Rod Dia.	Rod Gland Dia.	Gland Width
Tolerance			±0.006		+0.003 -0.000	+0.000 -0.003	+0.000 -0.003	+0.003 -0.000	+0.000 -0.003	+0.004 -0.000	+0.010 -0.000
-433	5.475	0.037	0.275	6.025	6.015	6.011	5.526	5.529	5.526	6.014	
-434	5.600	0.037		6.150	6.140	6.136	5.651	5.654	5.651	6.139	
-435	5.725	0.037		6.275	6.266	6.262	5.777	5.780	5.777	6.265	
-436	5.850	0.037		6.400	6.391	6.387	5.902	5.905	5.902	6.390	
-437	5.975	0.037		6.525	6.516	6.512	6.027	6.030	6.027	6.515	
-438	6.225	0.040		6.775	6.770	6.766	6.281	6.284	6.281	6.769	
-439	6.475	0.040		7.025	7.020	7.016	6.531	6.534	6.531	7.019	
-440	6.725	0.040		7.275	7.271	7.267	6.782	6.785	6.782	7.270	
-441	6.975	0.040		7.525	7.521	7.517	7.032	7.035	7.032	7.520	
-442	7.225	0.045		7.775	7.777	7.773	7.288	7.291	7.288	7.776	
-443	7.475	0.045		8.025	8.027	8.023	7.538	7.541	7.538	8.026	
-444	7.725	0.045		8.275	8.278	8.274	7.789	7.792	7.789	8.277	
-445	7.975	0.045		8.525	8.528	8.524	8.039	8.042	8.039	8.527	
-446	8.475	0.055		9.025	9.039	9.035	8.550	8.553	8.550	9.038	
-447	8.975	0.055		9.525	9.540	9.536	9.051	9.054	9.051	9.539	
-448	9.475	0.055		10.025	10.041	10.037	9.552	9.555	9.552	10.040	
-449	9.975	0.055		10.525	10.542	10.538	10.053	10.056	10.053	10.541	
-450	10.475	0.060		11.025	11.048	11.044	10.559	10.562	10.559	11.047	
-451	10.975	0.060		11.525	11.549	11.545	11.060	11.063	11.060	11.548	
-452	11.475	0.060		12.025	12.050	12.046	11.561	11.564	11.561	12.049	
-453	11.975	0.060		12.525	12.551	12.547	12.062	12.065	12.062	12.550	
-454	12.475	0.060		13.025	13.052	13.048	12.563	12.566	12.563	13.051	
-455	12.975	0.060		13.525	13.553	13.549	13.064	13.067	13.064	13.552	
-456	13.475	0.070		14.025	14.064	14.060	13.575	13.578	13.575	14.063	
-457	13.975	0.070		14.525	14.565	14.561	14.076	14.079	14.076	14.564	
-458	14.475	0.070		15.025	15.066	15.062	14.577	14.580	14.577	15.065	
-459	14.975	0.070		15.525	15.567	15.563	15.078	15.081	15.078	15.566	
-460	15.475	0.070	▼	16.025	16.068	16.064	15.579	15.582	15.579	16.067	▼

*Note: The current revision of the Standard is "C" but it changes periodically.



NOTE:

- 1) 16 RMS rod finish max.
- 2) Due to centrifugal force, do not locate groove in shaft
- 3) Locate seal as close as possible to lubricating fluid
- 4) Feet per minute = (RPM x shaft diameter (inches) x 3.1416) / 12
- 5) To allow for heat transfer, bearing length should be 10 times the cross section of the O-ring used

Table G Rotary O-Ring Seal Gland Dimensions Under 900 PSI

AS-568*	L Gland Depth	E Diametrical Clearance	M Bearing Length Min.
-004 to -045	.065 to .067	.012 to .016	.700
-102 to -163	.097 to .099	.012 to .016	1.030
-210 to -258	.133 to .135	.016 to .020	1.390

AS-568* Number	O-ring Dimensions			Shaft Diameter B	Groove Diameter A	Rod Bore Diameter D	Groove Width G
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+0.000 -0.001	+0.003 -0.000	+0.003 -0.000	+0.004 -0.000
- 004	.070 ± .005	.070 ± .003	0.210	.072	.202	.084	.075
- 005	.101 ± .005		0.241	.103	.233	.115	
- 006	.114 ± .005		0.254	.116	.246	.128	
- 007	.145 ± .005		0.285	.147	.277	.159	
- 008	.176 ± .005		0.316	.178	.308	.190	
- 009	.208 ± .005		0.348	.210	.340	.222	
- 010	.239 ± .005		0.379	.241	.371	.253	
- 011	.301 ± .005		0.441	.303	.433	.315	
- 012	.364 ± .005		0.504	.366	.496	.378	
- 013	.426 ± .005		0.566	.428	.558	.440	
- 014	.489 ± .005		0.629	.491	.621	.503	
- 015	.551 ± .007		0.691	.553	.683	.565	

*Note: The current revision of the Standard is "C" but it changes periodically.



Seal Types & Gland Design

Table G

Rotary O-Ring Seal Gland Dimensions Under 900 PSI

AS-568* Number	O-ring Dimensions			Shaft Diameter B	Groove Diameter A	Rod Bore Diameter D	Groove Width G
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+0.000 -0.001	+0.003 -0.000	+0.003 -0.000	+0.004 -0.000
- 016	.614 ± .009	.070 ± .003	0.754	.616	.746	.628	.075
- 017	.676 ± .009		0.816	.678	.808	.693	
- 018	.739 ± .009		0.879	.741	.871	.753	
- 019	.801 ± .009		0.941	.803	.933	.815	
- 020	.864 ± .009		1.004	.866	.996	.878	
- 021	.926 ± .009		1.066	.928	1.058	.940	
- 022	.989 ± .010		1.129	.991	1.121	1.003	
- 023	1.051 ± .010		1.191	1.053	1.183	1.065	
- 024	1.114 ± .010		1.254	1.116	1.246	1.128	
- 025	1.176 ± .011		1.316	1.178	1.308	1.190	
- 026	1.239 ± .011		1.379	1.241	1.371	1.253	
- 027	1.301 ± .011		1.441	1.303	1.433	1.315	
- 028	1.364 ± .013		1.504	1.366	1.496	1.378	
- 029	1.489 ± .013		1.629	1.491	1.621	1.503	
- 030	1.614 ± .013		1.754	1.616	1.746	1.628	
- 031	1.739 ± .015		1.879	1.741	1.871	1.753	
- 032	1.864 ± .015		2.004	1.866	1.996	1.878	
- 033	1.989 ± .018		2.129	1.991	2.121	2.003	
- 034	2.114 ± .018		2.254	2.116	2.246	2.128	
- 035	2.239 ± .018		2.379	2.241	2.371	2.253	
- 036	2.364 ± .018		2.504	2.366	2.496	2.378	
- 037	2.489 ± .018		2.629	2.491	2.621	2.503	
- 038	2.614 ± .020		2.754	2.616	2.746	2.628	
- 039	2.739 ± .020		2.879	2.741	2.871	2.753	
- 040	2.864 ± .020		3.004	2.866	2.996	2.878	
- 041	2.989 ± .024		3.129	2.991	3.121	3.003	
- 042	3.239 ± .024		3.379	3.241	3.371	3.253	
- 043	3.489 ± .024		3.629	3.491	3.621	3.503	
- 044	3.739 ± .027		3.879	3.741	3.871	3.753	
- 045	3.989 ± .027		4.129	3.991	4.121	4.003	

*Note: The current revision of the Standard is "C" but it changes periodically.

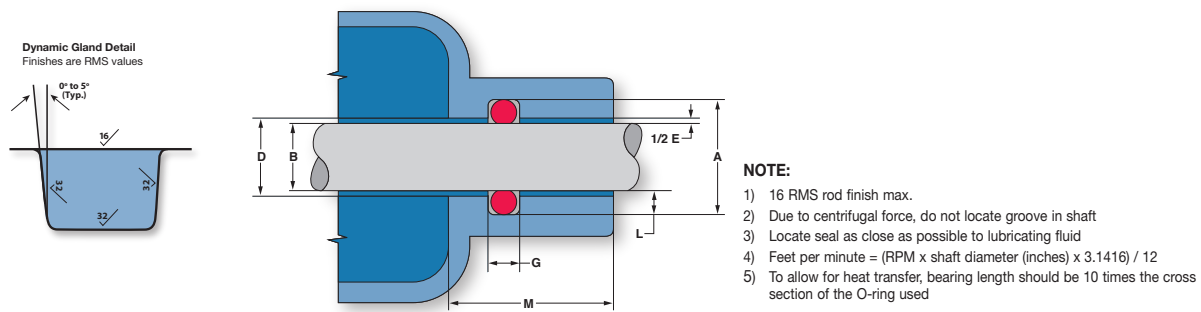


Table G

Rotary O-Ring Seal Gland Dimensions Under 900 PSI

AS-568* Number	O-ring Dimensions			Shaft Diameter B	Groove Diameter A	Rod Bore Diameter D	Groove Width G
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
				+0.003 -0.001	+0.003 -0.000	+0.003 -0.000	+0.004 -0.000
- 102	.049 ± .005	.103 ± .003	0.255	.051	.245	.063	.108
- 103	.081 ± .005		0.287	.083	.277	.095	
- 104	.112 ± .005		0.318	.114	.308	.126	
- 105	.143 ± .005		0.349	.145	.339	.157	
- 106	.174 ± .005		0.380	.176	.370	.188	
- 107	.206 ± .005		0.412	.208	.402	.220	
- 108	.237 ± .005		0.443	.239	.433	.251	
- 109	.299 ± .005		0.505	.301	.495	.313	
- 110	.362 ± .005		0.568	.364	.558	.376	
- 111	.424 ± .005		0.630	.426	.620	.438	
- 112	.487 ± .005		0.693	.489	.683	.501	
- 113	.549 ± .005		0.755	.551	.745	.563	
- 114	.612 ± .009		0.818	.614	.808	.626	
- 115	.674 ± .009		0.880	.676	.870	.688	
- 116	.737 ± .009		0.943	.739	.933	.751	
- 117	.799 ± .010		1.005	.801	.995	.813	
- 118	.862 ± .010		1.068	.864	1.058	.876	
- 119	.924 ± .010		1.130	.926	1.120	.938	
- 120	.987 ± .010		1.193	.989	1.183	1.001	
- 121	1.049 ± .010		1.255	1.051	1.245	1.063	
- 122	1.112 ± .010		1.318	1.114	1.308	1.126	
- 123	1.174 ± .012		1.380	1.176	1.370	1.188	
- 124	1.237 ± .012		1.443	1.239	1.433	1.251	
- 125	1.299 ± .012		1.505	1.301	1.495	1.313	
- 126	1.362 ± .012		1.568	1.364	1.558	1.376	
- 127	1.424 ± .012		1.630	1.426	1.620	1.438	
- 128	1.487 ± .012		1.693	1.489	1.683	1.501	
- 129	1.549 ± .015		1.755	1.551	1.745	1.563	
- 130	1.612 ± .015		1.818	1.614	1.808	1.626	
- 131	1.674 ± .015		1.880	1.676	1.870	1.688	

*Note: The current revision of the Standard is "C" but it changes periodically.





Seal Types & Gland Design



Table G

Rotary O-Ring Seal Gland Dimensions Under 900 PSI

AS-568* Number	O-ring Dimensions			Shaft Diameter B	Groove Diameter A	Rod Bore Diameter D	Groove Width G
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+0.000 -0.001	+0.003 -0.000	+0.003 -0.000	+0.004 -0.000
- 132	1.737 ± .015	.103 ± .003	1.943	1.739	1.933	1.751	.108
- 133	1.799 ± .015		2.005	1.801	1.995	1.813	
- 134	1.862 ± .015		2.068	1.864	2.058	1.876	
- 135	1.925 ± .017		2.131	1.927	2.121	1.939	
- 136	1.987 ± .017		2.193	1.989	2.183	2.001	
- 137	2.050 ± .017		2.256	2.052	2.246	2.064	
- 138	2.112 ± .017		2.318	2.114	2.308	2.126	
- 139	2.175 ± .017		2.381	2.177	2.371	2.189	
- 140	2.237 ± .017		2.443	2.239	2.433	2.251	
- 141	2.300 ± .020		2.506	2.302	2.496	2.314	
- 142	2.362 ± .020		2.568	2.364	2.558	2.376	
- 143	2.425 ± .020		2.631	2.427	2.621	2.439	
- 144	2.487 ± .020		2.693	2.489	2.683	2.501	
- 145	2.550 ± .020		2.756	2.552	2.746	2.564	
- 146	2.612 ± .020		2.818	2.614	2.808	2.626	
- 147	2.675 ± .022		2.881	2.677	2.871	2.689	
- 148	2.737 ± .022		2.943	2.739	2.933	2.751	
- 149	2.800 ± .022		3.006	2.802	2.996	2.814	
- 150	2.862 ± .022		3.068	2.864	3.058	2.876	
- 151	2.987 ± .024		3.193	2.989	3.183	3.001	
- 152	3.237 ± .024		3.443	3.239	3.433	3.251	
- 153	3.487 ± .024		3.693	3.489	3.683	3.501	
- 154	3.737 ± .028		3.943	3.739	3.933	3.751	
- 155	3.987 ± .028		4.193	3.989	4.183	4.001	
- 156	4.237 ± .030		4.443	4.239	4.443	4.251	
- 157	4.487 ± .030		4.693	4.489	4.683	4.501	
- 158	4.737 ± .030		4.943	4.739	4.933	4.751	
- 159	4.987 ± .035		5.193	4.989	5.183	5.001	
- 160	5.237 ± .035		5.443	5.239	5.433	5.251	
- 161	5.487 ± .035		5.693	5.489	5.683	5.501	
- 162	5.737 ± .035		5.943	5.739	5.933	5.751	
- 163	5.987 ± .035		6.193	5.989	6.183	6.001	

*Note: The current revision of the Standard is "C" but it changes periodically.

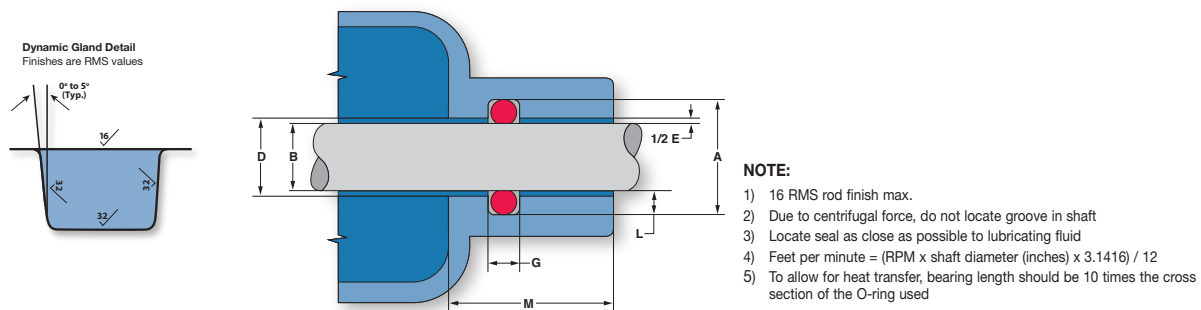


Table G

Rotary O-Ring Seal Gland Dimensions Under 900 PSI

AS-568* Number	O-ring Dimensions			Shaft Diameter B	Groove Diameter A	Rod Bore Diameter D	Groove Width G
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+0.000 -0.001	+0.003 -0.000	+0.003 -0.000	+0.004 -0.000
- 201	0.171 ± .005	.139 ± .004	0.449	.173	.439	.189	.144
- 202	0.234 ± .005		0.512	.236	.502	.252	
- 203	0.296 ± .005		0.574	.298	.564	.314	
- 204	0.359 ± .005		0.637	.361	.627	.377	
- 205	0.421 ± .005		0.699	.423	.689	.439	
- 206	0.484 ± .005		0.762	.486	.752	.502	
- 207	0.546 ± .007		0.824	.548	.814	.564	
- 208	0.609 ± .009		0.887	.611	.877	.627	
- 209	0.671 ± .009		0.949	.673	.939	.689	
- 210	0.734 ± .010		1.012	.736	1.002	.752	
- 211	0.796 ± .010		1.074	.798	1.064	.814	
- 212	0.859 ± .010		1.137	.861	1.127	.877	
- 213	0.921 ± .010		1.199	.923	1.189	.939	
- 214	0.984 ± .010		1.262	.986	1.252	1.002	
- 215	1.046 ± .010		1.324	1.048	1.314	1.064	
- 216	1.109 ± .012		1.387	1.111	1.377	1.127	
- 217	1.171 ± .012		1.449	1.173	1.439	1.189	
- 218	1.234 ± .012		1.512	1.236	1.502	1.252	
- 219	1.296 ± .012		1.574	1.298	1.564	1.314	
- 220	1.359 ± .012		1.637	1.361	1.627	1.377	
- 221	1.421 ± .012		1.699	1.423	1.689	1.439	
- 222	1.484 ± .015		1.762	1.486	1.752	1.502	
- 223	1.609 ± .015		1.887	1.611	1.877	1.627	
- 224	1.734 ± .015		2.012	1.736	2.002	1.752	
- 225	1.859 ± .018		2.137	1.861	2.127	1.877	
- 226	1.984 ± .018		2.262	1.986	2.252	2.002	
- 227	2.109 ± .018		2.387	2.111	2.377	2.127	
- 228	2.234 ± .020		2.512	2.236	2.502	2.252	
- 229	2.359 ± .020		2.637	2.361	2.627	2.377	
- 230	2.484 ± .020		2.762	2.486	2.752	2.502	

*Note: The current revision of the Standard is "C" but it changes periodically.





Seal Types & Gland Design



Table G

Rotary O-Ring Seal Gland Dimensions Under 900 PSI

AS-568* Number	O-ring Dimensions			Shaft Diameter B	Groove Diameter A	Rod Bore Diameter D	Groove Width G
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+0.000 -0.001	+0.003 -0.000	+0.003 -0.000	+0.004 -0.000
- 231	2.609 ± .020	.139 ± .004	2.887	2.611	2.877	2.627	.144
- 232	2.734 ± .024		3.012	2.736	3.002	2.752	
- 233	2.859 ± .024		3.137	2.861	3.127	2.877	
- 234	2.984 ± .024		3.262	2.986	3.252	3.002	
- 235	3.109 ± .024		3.387	3.111	3.377	3.127	
- 236	3.234 ± .024		3.512	3.236	3.502	3.252	
- 237	3.359 ± .024		3.637	3.361	3.627	3.377	
- 238	3.484 ± .024		3.762	3.486	3.752	3.502	
- 239	3.609 ± .028		3.887	3.611	3.877	3.627	
- 240	3.734 ± .028		4.012	3.736	4.002	3.752	
- 241	3.859 ± .028		4.137	3.861	4.127	3.877	
- 242	3.984 ± .028		4.262	3.986	4.252	4.002	
- 243	4.109 ± .028		4.387	4.111	4.377	4.127	
- 244	4.234 ± .030		4.512	4.236	4.502	4.252	
- 245	4.359 ± .030		4.637	4.361	4.627	4.377	
- 246	4.484 ± .030		4.762	4.486	4.752	4.502	
- 247	4.609 ± .030		4.887	4.611	4.877	4.627	
- 248	4.734 ± .030		5.012	4.736	5.002	4.752	
- 249	4.859 ± .035		5.137	4.861	5.127	4.877	
- 250	4.984 ± .035		5.262	4.986	5.252	5.002	
- 251	5.109 ± .035		5.387	5.111	5.377	5.127	
- 252	5.234 ± .035		5.512	5.236	5.502	5.252	
- 253	5.359 ± .035		5.637	5.361	5.627	5.377	
- 254	5.484 ± .035		5.762	5.486	5.752	5.502	
- 255	5.609 ± .035		5.887	5.611	5.877	5.627	
- 256	5.734 ± .035		6.012	5.736	6.002	5.752	
- 257	5.859 ± .035		6.137	5.861	6.127	5.877	
- 258	5.984 ± .035		6.262	5.986	6.252	6.002	

*Note: The current revision of the Standard is "C" but it changes periodically.