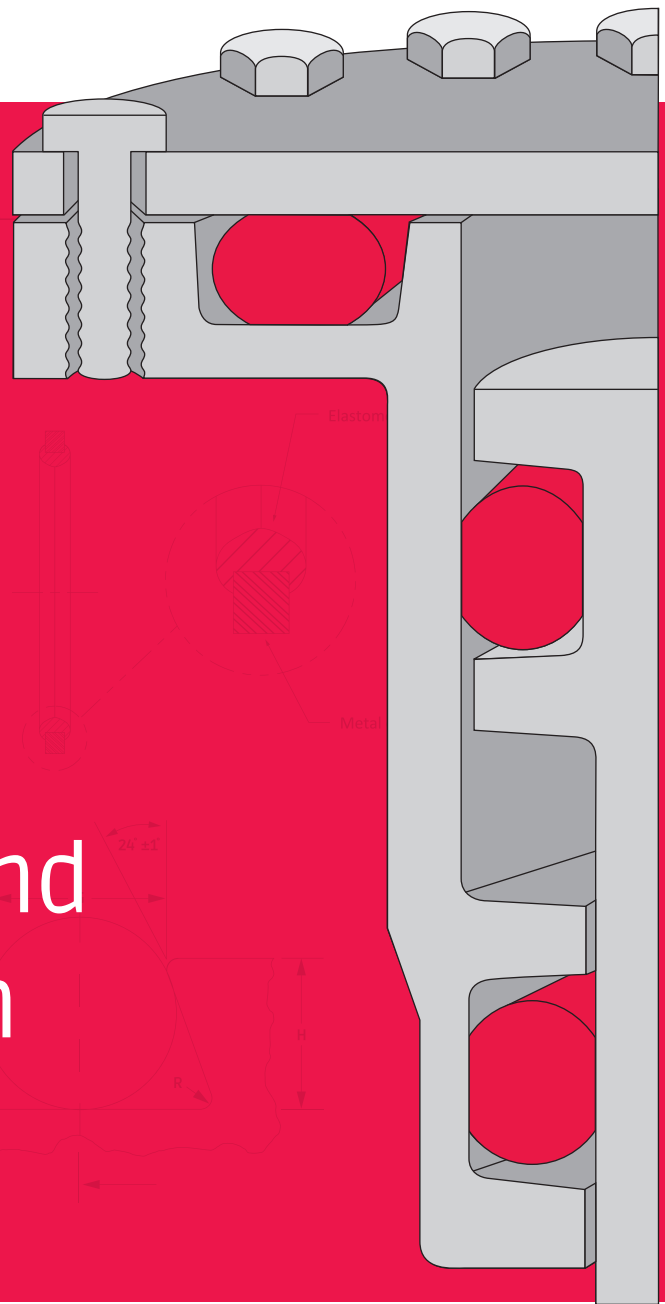


Seal Design Guide

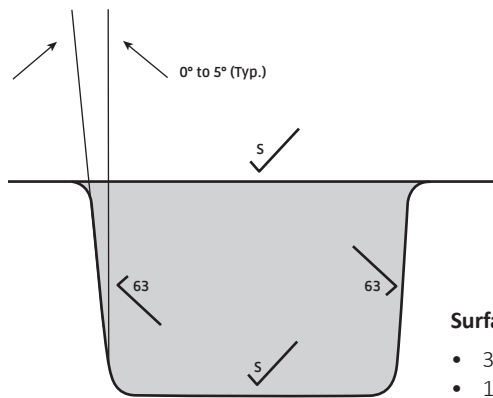
Seal Types and Gland Design

Section 2:

Static Axial Seal



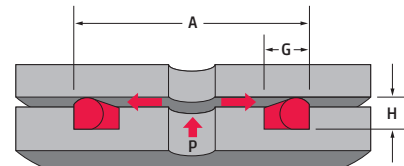
Static Axial Seal Gland Dimensions



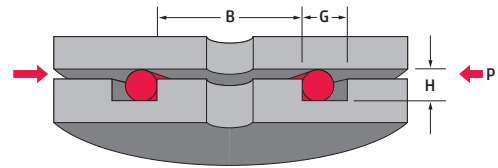
Surface finish (S):

- 32 for liquids
- 16 for vacuum and gases

Finishes are RMS values



Internal Pressure



External Pressure

TABLE B Static Axial Seal Gland Dimensions

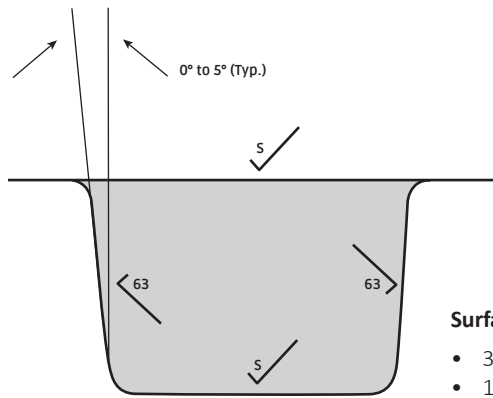
AS568 Number	O-Ring Dimensions			Internal Pressure Diameter A	External Pressure Diameter B	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				$\begin{smallmatrix} +.005 \\ -.000 \end{smallmatrix}$	$\begin{smallmatrix} +.000 \\ -.005 \end{smallmatrix}$	$\begin{smallmatrix} +.010 \\ -.000 \end{smallmatrix}$	$\begin{smallmatrix} +.005 \\ -.000 \end{smallmatrix}$
-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:** O-Ring seal sizes not listed are not recommended for axial seals because the seal ID after installation becomes too small for practical use.

TABLE B Static Axial Seal Gland Dimensions

AS568 Number	O-Ring Dimensions			Internal Pressure Diameter A	External Pressure Diameter B	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+ .005 - .000	+ .000 - .005	+ .010 - .000	+ .005 - .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

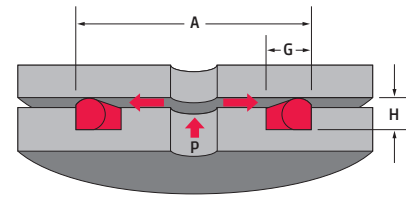
****NOTE:** O-Ring seal sizes not listed are not recommended for axial seals because the seal ID after installation becomes too small for practical use.



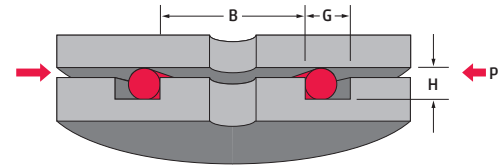
Finishes are RMS values

Surface finish (S):

- 32 for liquids
- 16 for vacuum and gases



Internal Pressure



External Pressure

TABLE B Static Axial Seal Gland Dimensions

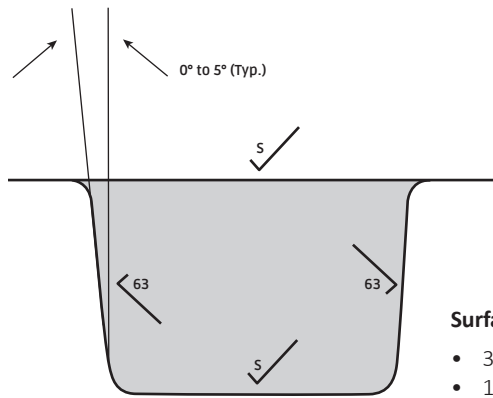
AS568 Number	O-Ring Dimensions			Internal Pressure Diameter A	External Pressure Diameter B	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+0.005 -0.000	+0.000 -0.005	+0.010 -0.000	+0.005 -0.000
-105	.143 ± .005	.103 ± .003	0.349	**	.148	.170	.075
-106	.174 ± .005		0.380	**	.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

****NOTE:** O-Ring seal sizes not listed are not recommended for axial seals because the seal ID after installation becomes too small for practical use.

TABLE B Static Axial Seal Gland Dimensions

AS568 Number	O-Ring Dimensions			Internal Pressure Diameter A	External Pressure Diameter B	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+ .005 - .000	+ .000 - .005	+ .010 - .000	+ .005 - .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

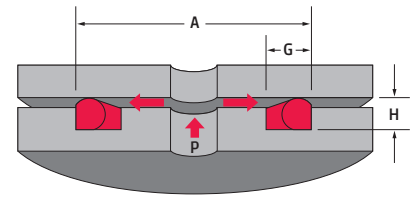
NOTE: O-Ring seal sizes not listed are not recommended for axial seals because the seal ID after installation becomes too small for practical use.



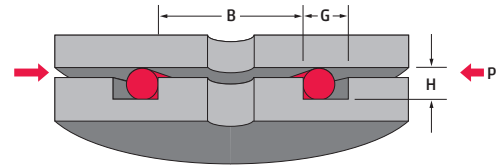
Finishes are RMS values

Surface finish (S):

- 32 for liquids
- 16 for vacuum and gases



Internal Pressure



External Pressure

TABLE B Static Axial Seal Gland Dimensions

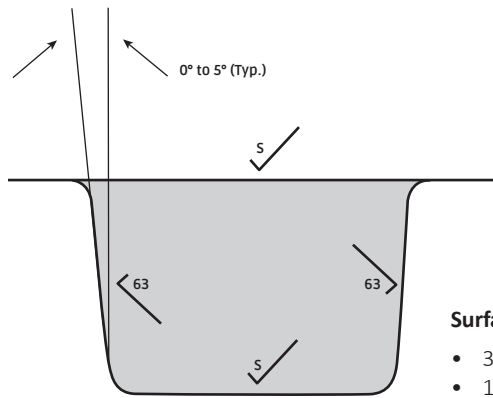
AS568 Number	O-Ring Dimensions			Internal Pressure Diameter A	External Pressure Diameter B	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+0.005 -0.000	+0.000 -0.005	+0.010 -0.000	+0.005 -0.000
-165	6.487 ± .040	.103 ± .003	6.693	6.688	6.492	.170	.075
-166	6.737 ± .040		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

****NOTE:** O-Ring seal sizes not listed are not recommended for axial seals because the seal ID after installation becomes too small for practical use.

TABLE B Static Axial Seal Gland Dimensions

AS568 Number	O-Ring Dimensions			Internal Pressure Diameter A	External Pressure Diameter B	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+0.005 -0.000	+0.000 -0.005	+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

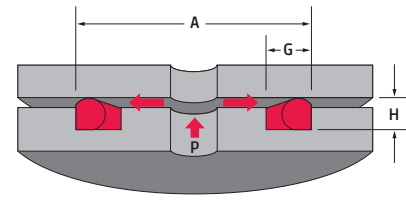
NOTE: O-Ring seal sizes not listed are not recommended for axial seals because the seal ID after installation becomes too small for practical use.



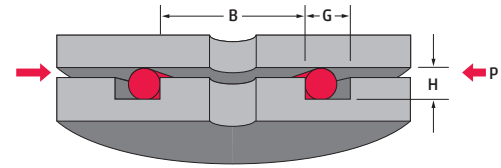
Finishes are RMS values

Surface finish (S):

- 32 for liquids
- 16 for vacuum and gases



Internal Pressure



External Pressure

TABLE B Static Axial Seal Gland Dimensions

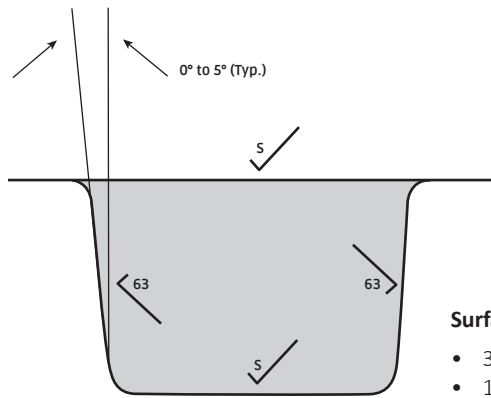
AS568 Number	O-Ring Dimensions			Internal Pressure Diameter A	External Pressure Diameter B	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+0.005 -0.000	+0.000 -0.005	+0.010 -0.000	+0.005 -0.000
-247	4.609 ± .030	.139 ± .004	4.887	4.882	4.614	.210	.107
-248	4.734 ± .030		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: O-Ring seal sizes not listed are not recommended for axial seals because the seal ID after installation becomes too small for practical use.

TABLE B Static Axial Seal Gland Dimensions

AS568 Number	O-Ring Dimensions			Internal Pressure Diameter A	External Pressure Diameter B	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+ .005 - .000	+ .000 - .005	+ .010 - .000	+ .005 - .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

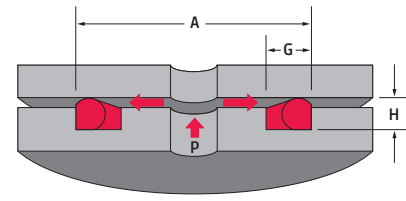
****NOTE:** O-Ring seal sizes not listed are not recommended for axial seals because the seal ID after installation becomes too small for practical use.



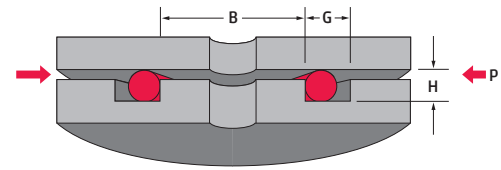
Finishes are RMS values

Surface finish (S):

- 32 for liquids
- 16 for vacuum and gases



Internal Pressure



External Pressure

TABLE B Static Axial Seal Gland Dimensions

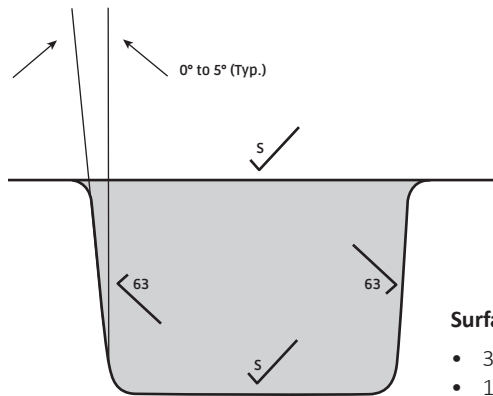
AS568 Number	O-Ring Dimensions			Internal Pressure Diameter A	External Pressure Diameter B	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+0.005 -0.000	+0.000 -0.005	+0.010 -0.000	+0.005 -0.000
-331	2.225 ± .018	.210 ± .005	2.645	2.640	2.230	.300	.169
-332	2.350 ± .018		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

NOTE: O-Ring seal sizes not listed are not recommended for axial seals because the seal ID after installation becomes too small for practical use.

TABLE B Static Axial Seal Gland Dimensions

AS568 Number	O-Ring Dimensions			Internal Pressure Diameter A	External Pressure Diameter B	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+ .005 - .000	+ .000 - .005	+ .010 - .000	+ .005 - .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

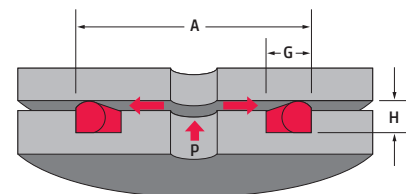
NOTE: O-Ring seal sizes not listed are not recommended for axial seals because the seal ID after installation becomes too small for practical use.



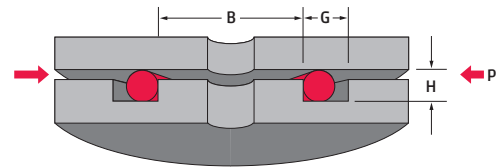
Finishes are RMS values

Surface finish (S):

- 32 for liquids
- 16 for vacuum and gases



Internal Pressure



External Pressure

TABLE B Static Axial Seal Gland Dimensions

AS568 Number	O-Ring Dimensions			Internal Pressure Diameter A	External Pressure Diameter B	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
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

NOTE: O-Ring seal sizes not listed are not recommended for axial seals because the seal ID after installation becomes too small for practical use.

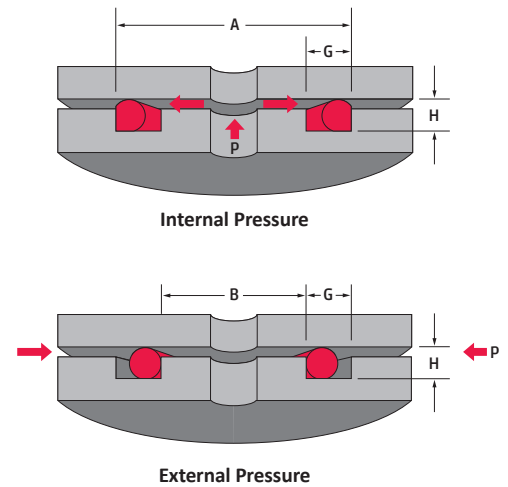
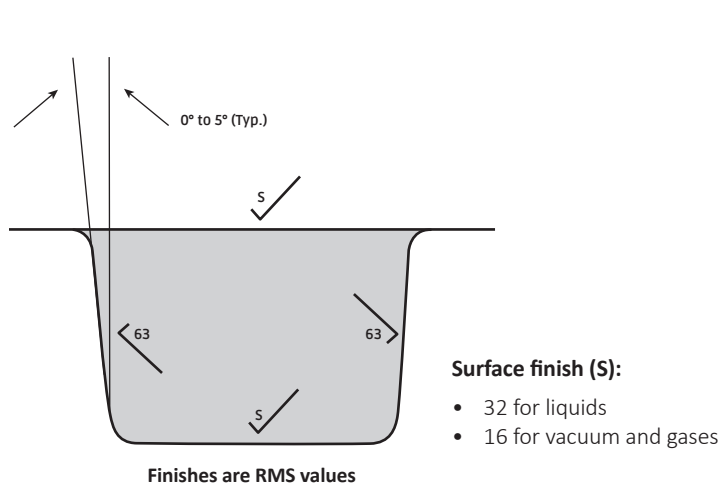


TABLE B Static Axial Seal Gland Dimensions

AS568 Number	O-Ring Dimensions			Internal Pressure Diameter A	External Pressure Diameter B	Groove Width G	Gland Depth H
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+ .005 - .000	+ .000 - .005	+ .010 - .000	+ .005 - .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

NOTE: O-Ring seal sizes not listed are not recommended for axial seals because the seal ID after installation becomes too small for practical use.