

Seal Types & Gland Design

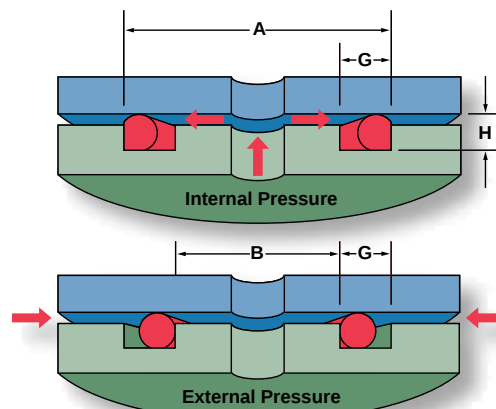


Table B

Static Axial Seal Gland Dimensions

AS 568A Number	Internal Pressure Diameter A Inch	External Pressure Diameter B Inch	Groove Width G	Gland Depth H
Tolerance	+0.005 -0.000	+0.000 -0.005	+0.010 -0.000	+0.006 -0.000
-004	*	.075	.125	.049
-005	*	.106	.125	.049
-006	*	.119	.125	.049
-007	*	.150	.125	.049
-008	*	.181	.125	.049
-009	*	.213	.125	.049
-010	*	.244	.125	.049
-011	.436	.306	.125	.049
-012	.499	.369	.125	.049
-013	.561	.431	.125	.049
-014	.624	.494	.125	.049
-015	.686	.556	.125	.049
-016	.749	.619	.125	.049
-017	.811	.681	.125	.049
-018	.874	.744	.125	.049
-019	.936	.806	.125	.049
-020	.999	.869	.125	.049
-021	1.061	.931	.125	.049
-022	1.124	.994	.125	.049
-023	1.186	1.056	.125	.049

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

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Static Axial Seal Gland Dimensions

AS 568A Number	Internal Pressure Diameter A Inch	External Pressure Diameter B Inch	Groove Width G	Gland Depth H
Tolerance	+.005 -.000	+.000 -.005	+.010 -.000	+.006 -.000
-024	1.249	1.119	.125	.049
-025	1.311	1.181	.125	.049
-026	1.374	1.244	.125	.049
-027	1.436	1.306	.125	.049
-028	1.499	1.368	.125	.049
-029	1.624	1.494	.125	.049
-030	1.749	1.619	.125	.049
-031	1.874	1.744	.125	.049
-032	1.999	1.869	.125	.049
-033	2.124	1.994	.125	.049
-034	2.249	2.119	.125	.049
-035	2.374	2.244	.125	.049
-036	2.499	2.369	.125	.049
-037	2.624	2.494	.125	.049
-038	2.749	2.619	.125	.049
-039	2.874	2.744	.125	.049
-040	2.999	2.869	.125	.049
-041	3.124	2.994	.125	.049
-042	3.374	3.244	.125	.049
-043	3.624	3.494	.125	.049
-044	3.874	3.744	.125	.049
-045	4.124	3.994	.125	.049
-046	4.374	4.244	.125	.049
-047	4.624	4.494	.125	.049
-048	4.874	4.744	.125	.049
-049	5.124	4.994	.125	.049
-050	5.374	5.244	.125	.049
-102	*	.054	.170	.075
-103	*	.086	.170	.075
-104	*	.117	.170	.075

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AS 568A Number	Internal Pressure Diameter A Inch	External Pressure Diameter B Inch	Groove Width G	Gland Depth H
Tolerance	+.005 -.000	+.000 -.005	+.010 -.000	+.006 -.000
-105	*	.148	.170	.075
-106	*	.179	.170	.075
-107	*	.211	.170	.075
-108	*	.242	.170	.075
-109	*	.304	.170	.075
-110	.563	.367	.170	.075
-111	.625	.429	.170	.075
-112	.688	.492	.170	.075
-113	.750	.554	.170	.075
-114	.813	.617	.170	.075
-115	.875	.679	.170	.075
-116	.938	.742	.170	.075
-117	1.000	.804	.170	.075
-118	1.063	.867	.170	.075
-119	1.125	.929	.170	.075
-120	1.188	.992	.170	.075
-121	1.250	1.054	.170	.075
-122	1.313	1.117	.170	.075
-123	1.375	1.179	.170	.075
-124	1.438	1.242	.170	.075
-125	1.500	1.304	.170	.075
-126	1.563	1.367	.170	.075
-127	1.625	1.429	.170	.075
-128	1.688	1.492	.170	.075
-129	1.750	1.554	.170	.075
-130	1.183	1.617	.170	.075
-131	1.875	1.679	.170	.075
-132	1.938	1.742	.170	.075
-133	2.000	1.804	.170	.075
-134	2.063	1.867	.170	.075

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AS 568A Number	Internal Pressure Diameter A Inch	External Pressure Diameter B Inch	Groove Width G	Gland Depth H
Tolerance	+0.005 -0.000	+0.000 -0.005	+0.010 -0.000	+0.006 -0.000
-135	2.126	1.930	.170	.075
-136	2.188	1.992	.170	.075
-137	2.251	2.055	.170	.075
-138	2.313	2.117	.170	.075
-139	2.376	2.180	.170	.075
-140	2.438	2.242	.170	.075
-141	2.501	2.305	.170	.075
-142	2.563	2.367	.170	.075
-143	2.626	2.430	.170	.075
-144	2.688	2.492	.170	.075
-145	2.751	2.555	.170	.075
-146	2.813	2.617	.170	.075
-147	2.876	2.680	.170	.075
-148	2.938	2.742	.170	.075
-149	3.001	2.805	.170	.075
-150	3.063	2.867	.170	.075
-151	3.188	2.992	.170	.075
-152	3.438	3.242	.170	.075
-153	3.688	3.492	.170	.075
-154	3.938	3.742	.170	.075
-155	4.188	3.992	.170	.075
-156	4.438	4.242	.170	.075
-157	4.688	4.492	.170	.075
-158	4.938	4.742	.170	.075
-159	5.188	4.992	.170	.075
-160	5.438	5.242	.170	.075
-161	5.688	5.492	.170	.075
-162	5.938	5.742	.170	.075
-163	6.188	5.992	.170	.075
-164	6.438	6.242	.170	.075

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Static Axial Seal Gland Dimensions

AS 568A Number	Internal Pressure Diameter A Inch	External Pressure Diameter B Inch	Groove Width G	Gland Depth H
Tolerance	+ .005 - .000	+ .000 - .005	+ .010 - .000	+ .006 - .000
-165	6.688	6.492	.170	.075
-166	6.938	6.742	.170	.075
-167	7.188	6.992	.170	.075
-168	7.438	7.242	.170	.075
-169	7.688	7.492	.170	.075
-170	7.938	7.742	.170	.075
-171	8.188	7.992	.170	.075
-172	8.438	8.242	.170	.075
-173	8.688	8.492	.170	.075
-174	8.938	8.742	.170	.075
-175	9.188	8.992	.170	.075
-176	9.438	9.242	.170	.075
-177	9.688	9.492	.170	.075
-178	9.939	9.742	.170	.075
-201	*	.176	.210	.107
-202	*	.239	.210	.107
-203	*	.301	.210	.107
-204	*	.364	.210	.107
-205	.694	.426	.210	.107
-206	.757	.489	.210	.107
-207	.819	.551	.210	.107
-208	.882	.614	.210	.107
-209	.944	.676	.210	.107
-210	1.007	.739	.210	.107
-211	1.069	.801	.210	.107
-212	1.132	.864	.210	.107
-213	1.194	.926	.210	.107
-214	1.257	.989	.210	.107
-215	1.319	1.051	.210	.107
-216	1.382	1.114	.210	.107

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Table B Static Axial Seal Gland Dimensions

AS 568A Number	Internal Pressure Diameter A Inch	External Pressure Diameter B Inch	Groove Width G	Gland Depth H
Tolerance	+0.005 -0.000	+0.000 -0.005	+0.010 -0.000	+0.006 -0.000
-217	1.444	1.176	.210	.107
-218	1.507	1.239	.210	.107
-219	1.569	1.301	.210	.107
-220	1.632	1.364	.210	.107
-221	1.694	1.426	.210	.107
-222	1.757	1.489	.210	.107
-223	1.882	1.614	.210	.107
-224	2.007	1.739	.210	.107
-225	2.132	1.864	.210	.107
-226	2.257	1.989	.210	.107
-227	2.382	2.114	.210	.107
-228	2.507	2.239	.210	.107
-229	2.632	2.364	.210	.107
-230	2.757	2.489	.210	.107
-231	2.882	2.614	.210	.107
-232	3.007	2.739	.210	.107
-233	3.132	2.864	.210	.107
-234	3.257	2.989	.210	.107
-235	3.382	3.114	.210	.107
-236	3.507	3.239	.210	.107
-237	3.632	3.364	.210	.107
-238	3.757	3.489	.210	.107
-239	3.882	3.614	.210	.107
-240	4.007	3.739	.210	.107
-241	4.132	3.864	.210	.107
-242	4.257	3.989	.210	.107
-243	4.382	4.114	.210	.107
-244	4.507	4.239	.210	.107
-245	4.632	4.364	.210	.107
-246	4.757	4.489	.210	.107

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Static Axial Seal Gland Dimensions

AS 568A Number	Internal Pressure Diameter A Inch	External Pressure Diameter B Inch	Groove Width G	Gland Depth H
Tolerance	+ .005 - .000	+ .000 - .005	+ .010 - .000	+ .006 - .000
-247	4.882	4.614	.210	.107
-248	5.007	4.739	.210	.107
-249	5.132	4.864	.210	.107
-250	5.257	4.989	.210	.107
-251	5.382	5.114	.210	.107
-252	5.507	5.239	.210	.107
-253	5.632	5.359	.210	.107
-254	5.757	5.489	.210	.107
-255	5.882	5.614	.210	.107
-256	6.007	5.739	.210	.107
-257	6.132	5.864	.210	.107
-258	6.257	5.989	.210	.107
-259	6.507	6.239	.210	.107
-260	6.757	6.489	.210	.107
-261	7.007	6.739	.210	.107
-262	7.257	6.989	.210	.107
-263	7.507	7.239	.210	.107
-264	7.757	7.489	.210	.107
-265	8.007	7.739	.210	.107
-266	8.257	7.989	.210	.107
-267	8.507	8.239	.210	.107
-268	8.757	8.489	.210	.107
-269	9.007	8.739	.210	.107
-270	9.257	8.989	.210	.107
-271	9.507	9.239	.210	.107
-272	9.757	9.489	.210	.107
-273	10.007	9.739	.210	.107
-274	10.257	9.989	.210	.107
-275	10.757	10.489	.210	.107
-276	11.257	10.989	.210	.107

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Table B Static Axial Seal Gland Dimensions

AS 568A Number	Internal Pressure Diameter A Inch	External Pressure Diameter B Inch	Groove Width G	Gland Depth H
Tolerance	+ .005 - .000	+ .000 - .005	+ .010 - .000	+ .006 - .000
-277	11.757	11.489	.210	.107
-278	12.257	11.989	.210	.107
-279	13.257	12.989	.210	.107
-280	14.257	13.989	.210	.107
-281	15.257	14.989	.210	.107
-282	16.228	15.960	.210	.107
-283	17.228	16.960	.210	.107
-284	18.228	17.960	.210	.107
-309	*	.417	.300	.169
-310	.890	.480	.300	.169
-311	.952	.542	.300	.169
-312	1.015	.605	.300	.169
-313	1.077	.667	.300	.169
-314	1.140	.730	.300	.169
-315	1.202	.792	.300	.169
-316	1.265	.855	.300	.169
-317	1.327	.917	.300	.169
-318	1.390	.980	.300	.169
-319	1.452	1.042	.300	.169
-320	1.515	1.105	.300	.169
-321	1.577	1.167	.300	.169
-322	1.640	1.230	.300	.169
-323	1.702	1.292	.300	.169
-324	1.765	1.355	.300	.169
-325	1.890	1.480	.300	.169
-326	2.015	1.605	.300	.169
-327	2.140	1.730	.300	.169
-328	2.265	1.855	.300	.169
-329	2.390	1.980	.300	.169
-330	2.515	2.105	.300	.169

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AS 568A Number	Internal Pressure Diameter A Inch	External Pressure Diameter B Inch	Groove Width G	Gland Depth H
Tolerance	+.005 -.000	+.000 -.005	+.010 -.000	+.006 -.000
-331	2.640	2.230	.300	.169
-332	2.765	2.355	.300	.169
-333	2.890	2.480	.300	.169
-334	3.015	2.605	.300	.169
-335	3.140	2.730	.300	.169
-336	3.265	2.855	.300	.169
-337	3.390	2.980	.300	.169
-338	3.515	3.105	.300	.169
-339	3.640	3.230	.300	.169
-340	3.765	3.355	.300	.169
-341	3.890	3.480	.300	.169
-342	4.015	3.605	.300	.169
-343	4.140	3.730	.300	.169
-344	4.265	3.855	.300	.169
-345	4.390	3.980	.300	.169
-346	4.515	4.105	.300	.169
-347	4.640	4.230	.300	.169
-348	4.765	4.355	.300	.169
-349	4.890	4.480	.300	.169
-350	5.015	4.605	.300	.169
-351	5.140	4.730	.300	.169
-352	5.265	4.855	.300	.169
-353	5.390	4.980	.300	.169
-354	5.515	5.105	.300	.169
-355	5.640	5.230	.300	.169
-356	5.765	5.355	.300	.169
-357	5.890	5.480	.300	.169
-358	6.015	5.605	.300	.169
-359	6.140	5.730	.300	.169
-360	6.265	5.855	.300	.169

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AS 568A Number	Internal Pressure Diameter A Inch	External Pressure Diameter B Inch	Groove Width G	Gland Depth H
Tolerance	+0.005 -0.000	+0.000 -0.005	+0.010 -0.000	+0.006 -0.000
-361	6.390	5.980	.300	.169
-362	6.640	6.230	.300	.169
-363	6.890	6.480	.300	.169
-364	7.140	6.730	.300	.169
-365	7.390	6.980	.300	.169
-366	7.640	7.230	.300	.169
-367	7.890	7.480	.300	.169
-368	8.140	7.730	.300	.169
-369	8.390	7.980	.300	.169
-370	8.640	8.230	.300	.169
-371	8.890	8.480	.300	.169
-372	9.140	8.730	.300	.169
-373	9.390	8.980	.300	.169
-374	9.640	9.230	.300	.169
-375	9.890	9.480	.300	.169
-376	10.140	9.730	.300	.169
-377	10.390	9.980	.300	.169
-378	10.980	10.480	.300	.169
-379	11.390	10.980	.300	.169
-380	11.890	11.480	.300	.169
-381	12.390	11.980	.300	.169
-382	13.390	12.980	.300	.169
-383	14.390	13.980	.300	.169
-384	15.390	14.980	.300	.169
-385	16.370	15.960	.300	.169
-386	17.370	16.960	.300	.169
-387	18.370	17.960	.300	.169
-388	19.370	18.960	.300	.169
-389	20.370	19.960	.300	.169
-390	21.370	20.960	.300	.169

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Static Axial Seal Gland Dimensions

AS 568A Number	Internal Pressure Diameter A Inch	External Pressure Diameter B Inch	Groove Width G	Gland Depth H
Tolerance	+.005 -.000	+.000 -.005	+.010 -.000	+.006 -.000
-391	22.370	21.960	.300	.169
-392	23.355	22.945	.300	.169
-393	24.355	23.945	.300	.169
-394	25.355	24.945	.300	.169
-395	26.355	25.945	.300	.169
-425	5.020	4.480	.355	.231
-426	5.145	4.605	.355	.231
-427	5.270	4.730	.355	.231
-428	5.395	4.855	.355	.231
-429	5.520	4.980	.355	.231
-430	5.645	5.105	.355	.231
-431	5.770	5.230	.355	.231
-432	5.895	5.355	.355	.231
-433	6.020	5.480	.355	.231
-434	6.145	5.605	.355	.231
-435	6.270	5.730	.355	.231
-436	6.395	5.855	.355	.231
-437	6.520	5.980	.355	.231
-438	6.770	6.230	.355	.231
-439	7.020	6.480	.355	.231
-440	7.270	6.730	.355	.231
-441	7.520	6.980	.355	.231
-442	7.770	7.230	.355	.231
-443	8.020	7.480	.355	.231
-444	8.270	7.730	.355	.231
-445	8.520	7.980	.355	.231
-446	9.020	8.480	.355	.231
-447	9.520	8.980	.355	.231
-448	10.202	9.480	.355	.231
-449	10.520	9.980	.355	.231

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AS 568A Number	Internal Pressure Diameter A Inch	External Pressure Diameter B Inch	Groove Width G	Gland Depth H
Tolerance	+ .005 - .000	+ .000 - .005	+ .010 - .000	+ .006 - .000
-450	11.020	10.480	.355	.231
-451	11.520	10.980	.355	.231
-452	12.020	11.480	.355	.231
-453	12.520	11.980	.355	.231
-454	13.020	12.480	.355	.231
-455	13.520	12.980	.355	.231
-456	14.020	13.480	.355	.231
-457	14.520	13.980	.355	.231
-458	15.020	14.480	.355	.231
-459	15.520	14.980	.355	.231
-460	16.020	15.480	.355	.231
-461	16.500	15.960	.355	.231
-462	17.000	16.460	.355	.231
-463	17.500	16.960	.355	.231
-464	18.000	17.460	.355	.231
-465	18.500	17.960	.355	.231
-466	19.000	18.460	.355	.231
-467	19.500	18.960	.355	.231
-468	20.000	19.460	.355	.231
-469	20.500	19.960	.355	.231
-470	21.500	20.960	.355	.231
-471	22.500	21.960	.355	.231
-472	23.485	22.945	.355	.231
-473	24.485	23.945	.355	.231
-474	25.485	24.945	.355	.231
-475	26.485	25.945	.355	.231

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