

Finishes are RMS values

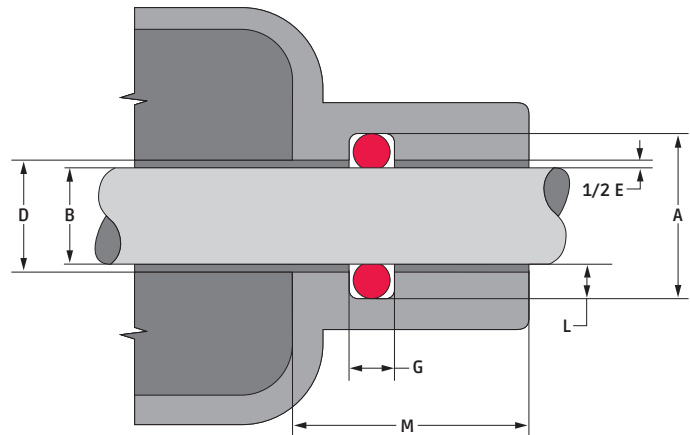


TABLE G Rotary O-Ring Seal Gland Dimensions Under 900 PSI

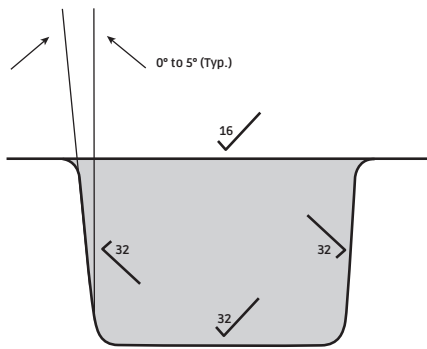
AS568	L Gland Depth	E Diametrical Clearance	M Bearing Length Min.
-004 to -045	.065 to .067	.012 to .016	.700
-102 to -163	.097 to .099	.012 to .016	1.030
-210 to -258	.133 to .135	.016 to .020	1.390

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

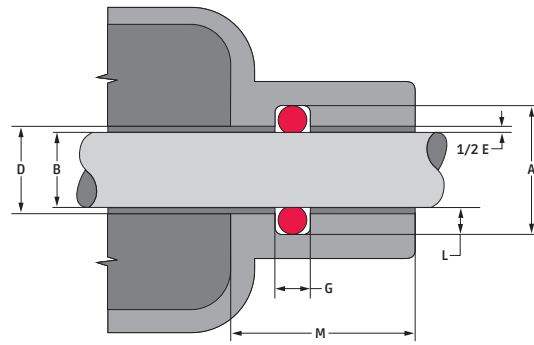
AS568 Number	O-Ring Dimensions			Shaft Diameter B	Groove Diameter A	Rod Bore Diameter D	Groove Width G
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+.000 -.001	+.003 -.000	+.003 -.000	+.004 -.000
- 004	.070 ± .005	.070 ± .003	0.210	.072	.202	.084	.075
- 005	.101 ± .005		0.241	.103	.233	.115	
- 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	↓

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AS568 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	▼



Finishes are RMS values



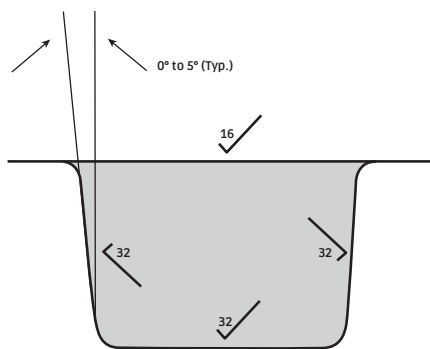
- 16 RMS rod finish max
- Due to centrifugal force, do not locate groove in shaft
- Locate seal as close as possible to lubricating fluid
- Feet per minute = (RPM x shaft diameter (inches) x 3.1416) / 12
- To allow for heat transfer, bearing length should be 10 times the cross section of the o-ring used

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

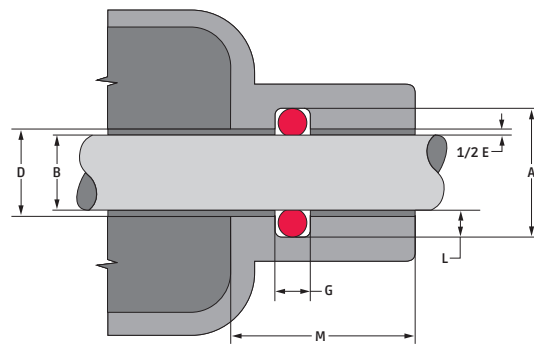
AS568 Number	O-Ring Dimensions			Shaft Diameter B	Groove Diameter A	Rod Bore Diameter D	Groove Width G
	I.D. ± Tol.	W. ± Tol.	O.D. (ref)				
Tolerance				+0.001 -0.001	+0.003 -0.000	+0.003 -0.000	+0.004 -0.000
- 102	.049 ± .005	.103 ± .003	0.255	.051	.245	.063	.108
- 103	.081 ± .005		0.287	.083	.277	.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	

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AS568 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	▼



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- 16 RMS rod finish max
- Due to centrifugal force, do not locate groove in shaft
- Locate seal as close as possible to lubricating fluid
- Feet per minute = (RPM x shaft diameter (inches) x 3.1416) / 12
- 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

AS568 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				+0.003 -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	

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

AS568 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				+0.00 -0.01	+0.03 -0.00	+0.03 -0.00	+0.04 -0.00
- 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	▼