

Seal Types & Gland Design

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

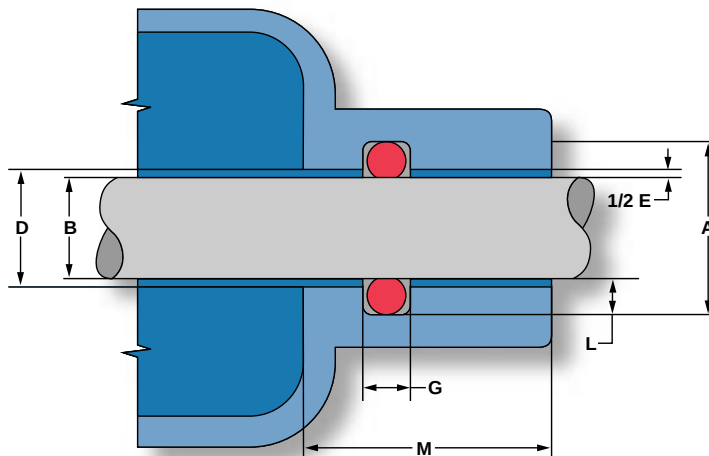


Table G

Rotary O-Ring Seal Gland Dimensions Under 900 PSI

AS 568A	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 568A Number	B Shaft Diameter	A Groove Diameter	D Rod Bore Diameter	G Groove Width
	$\begin{smallmatrix} +.000 \\ -.001 \end{smallmatrix}$	$\begin{smallmatrix} +.003 \\ -.000 \end{smallmatrix}$	$\begin{smallmatrix} +.003 \\ -.000 \end{smallmatrix}$	$\begin{smallmatrix} +.004 \\ -.000 \end{smallmatrix}$
- 004	.072	.202	.084	.075
- 005	.103	.233	.115	
- 006	.116	.246	.128	
- 007	.147	.277	.159	
- 008	.178	.308	.190	
- 009	.210	.340	.222	
- 010	.241	.371	.253	
- 011	.303	.433	.315	
- 012	.366	.496	.378	
- 013	.428	.558	.440	
- 014	.491	.621	.503	
- 015	.553	.683	.565	

Table G

Rotary O-Ring Seal Gland Dimensions Under 900 PSI

AS 568A Number	B Shaft Diameter	A Groove Diameter	D Bore Diameter	G Groove Width
	+ .000 - .001	+ .003 - .000	+ .003 - .000	+ .004 - .000
- 016	.616	.746	.628	.075
- 017	.678	.808	.693	
- 018	.741	.871	.753	
- 019	.803	.933	.815	
- 020	.866	.996	.878	
- 021	.928	1.058	.940	
- 022	.991	1.121	1.003	
- 023	1.053	1.183	1.065	
- 024	1.116	1.246	1.128	
- 025	1.178	1.308	1.190	
- 026	1.241	1.371	1.253	
- 027	1.303	1.433	1.315	
- 028	1.366	1.496	1.378	
- 029	1.491	1.621	1.503	
- 030	1.616	1.746	1.628	
- 031	1.741	1.871	1.753	
- 032	1.866	1.996	1.878	
- 033	1.991	2.121	2.003	
- 034	2.116	2.246	2.128	
- 035	2.241	2.371	2.253	
- 036	2.366	2.496	2.378	
- 037	2.491	2.621	2.503	
- 038	2.616	2.746	2.628	
- 039	2.741	2.871	2.753	
- 040	2.866	2.996	2.878	
- 041	2.991	3.121	3.003	
- 042	3.241	3.371	3.253	
- 043	3.491	3.621	3.503	
- 044	3.741	3.871	3.753	
- 045	3.991	4.121	4.003	

Seal Types & Gland Design

Table G

Rotary O-Ring Seal Gland Dimensions Under 900 PSI

AS 568A Number	B Shaft Diameter	A Groove Diameter	D Bore Diameter	G Groove Width
	+0.000 -.001	+0.003 -.000	+0.003 -.000	+0.004 -.000
- 102	.051	.245	.063	.108
- 103	.083	.277	.095	
- 104	.114	.308	.126	
- 105	.145	.339	.157	
- 106	.176	.370	.188	
- 107	.208	.402	.220	
- 108	.239	.433	.251	
- 109	.301	.495	.313	
- 110	.364	.558	.376	
- 111	.426	.620	.438	
- 112	.489	.683	.501	
- 113	.551	.745	.563	
- 114	.614	.808	.626	
- 115	.676	.870	.688	
- 116	.739	.933	.751	
- 117	.801	.995	.813	
- 118	.864	1.058	.876	
- 119	.926	1.120	.938	
- 120	.989	1.183	1.001	
- 121	1.051	1.245	1.063	
- 122	1.114	1.308	1.126	
- 123	1.176	1.370	1.188	
- 124	1.239	1.433	1.251	
- 125	1.301	1.495	1.313	
- 126	1.364	1.558	1.376	
- 127	1.426	1.620	1.438	
- 128	1.489	1.683	1.501	
- 129	1.551	1.745	1.563	
- 130	1.614	1.808	1.626	
- 131	1.676	1.870	1.688	

Table G

Rotary O-Ring Seal Gland Dimensions Under 900 PSI

AS 568A Number	B Shaft Diameter	A Groove Diameter	D Bore Diameter	G Groove Width
	+0.00 -.001	+0.003 -.000	+0.003 -.000	+0.004 -.000
- 132	1.739	1.933	1.751	.108
- 133	1.801	1.995	1.813	
- 134	1.864	2.058	1.876	
- 135	1.927	2.121	1.939	
- 136	1.989	2.183	2.001	
- 137	2.052	2.246	2.064	
- 138	2.114	2.308	2.126	
- 139	2.177	2.371	2.189	
- 140	2.239	2.433	2.251	
- 141	2.302	2.496	2.314	
- 142	2.364	2.558	2.376	
- 143	2.427	2.621	2.439	
- 144	2.489	2.683	2.501	
- 145	2.552	2.746	2.564	
- 146	2.614	2.808	2.626	
- 147	2.677	2.871	2.689	
- 148	2.739	2.933	2.751	
- 149	2.802	2.996	2.814	
- 150	2.864	3.058	2.876	
- 151	2.989	3.183	3.001	
- 152	3.239	3.433	3.251	
- 153	3.489	3.683	3.501	
- 154	3.739	3.933	3.751	
- 155	3.989	4.183	4.001	
- 156	4.239	4.443	4.251	
- 157	4.489	4.683	4.501	
- 158	4.739	4.933	4.751	
- 159	4.989	5.183	5.001	
- 160	5.239	5.433	5.251	
- 161	5.489	5.683	5.501	
- 162	5.739	5.933	5.751	
- 163	5.989	6.183	6.001	

Seal Types & Gland Design

Table G

Rotary O-Ring Seal Gland Dimensions Under 900 PSI

AS 568A Number	B Shaft Diameter	A Groove Diameter	D Bore Diameter	G Groove Width
	+0.000 -.001	+0.003 -.000	+0.003 -.000	+0.004 -.000
- 201	.173	.439	.189	.144
- 202	.236	.502	.252	
- 203	.298	.564	.314	
- 204	.361	.627	.377	
- 205	.423	.689	.439	
- 206	.486	.752	.502	
- 207	.548	.814	.564	
- 208	.611	.877	.627	
- 209	.673	.939	.689	
- 210	.736	1.002	.752	
- 211	.798	1.064	.814	
- 212	.861	1.127	.877	
- 213	.923	1.189	.939	
- 214	.986	1.252	1.002	
- 215	1.048	1.314	1.064	
- 216	1.111	1.377	1.127	
- 217	1.173	1.439	1.189	
- 218	1.236	1.502	1.252	
- 219	1.298	1.564	1.314	
- 220	1.361	1.627	1.377	
- 221	1.423	1.689	1.439	
- 222	1.486	1.752	1.502	
- 223	1.611	1.877	1.627	
- 224	1.736	2.002	1.752	
- 225	1.861	2.127	1.877	
- 226	1.986	2.252	2.002	
- 227	2.111	2.377	2.127	
- 228	2.236	2.502	2.252	
- 229	2.361	2.627	2.377	
- 230	2.486	2.752	2.502	

Table G

Rotary O-Ring Seal Gland Dimensions Under 900 PSI

AS 568A Number	B Shaft Diameter	A Groove Diameter	D Bore Diameter	G Groove Width
	+0.00 -0.01	+0.03 -0.00	+0.03 -0.00	+0.04 -0.00
- 231	2.611	2.877	2.627	.144
- 232	2.736	3.002	2.752	
- 233	2.861	3.127	2.877	
- 234	2.986	3.252	3.002	
- 235	3.111	3.377	3.127	
- 236	3.236	3.502	3.252	
- 237	3.361	3.627	3.377	
- 238	3.486	3.752	3.502	
- 239	3.611	3.877	3.627	
- 240	3.736	4.002	3.752	
- 241	3.861	4.127	3.877	
- 242	3.986	4.252	4.002	
- 243	4.111	4.377	4.127	
- 244	4.236	4.502	4.252	
- 245	4.361	4.627	4.377	
- 246	4.486	4.752	4.502	
- 247	4.611	4.877	4.627	
- 248	4.736	5.002	4.752	
- 249	4.861	5.127	4.877	
- 250	4.986	5.252	5.002	
- 251	5.111	5.377	5.127	
- 252	5.236	5.502	5.252	
- 253	5.361	5.627	5.377	
- 254	5.486	5.752	5.502	
- 255	5.611	5.877	5.627	
- 256	5.736	6.002	5.752	
- 257	5.861	6.127	5.877	
- 258	5.986	6.252	6.002	

