

O-rings

Technical details

Operating conditions

Standard NBR
FKM

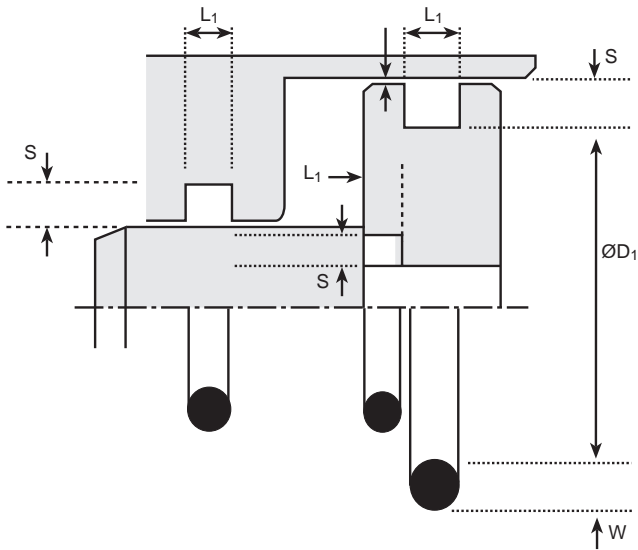
Metric

-30°C +100°C
-20°C +200°C

Temperature Range

Inch

-22°F +212°F
-04°F +390°F



Design

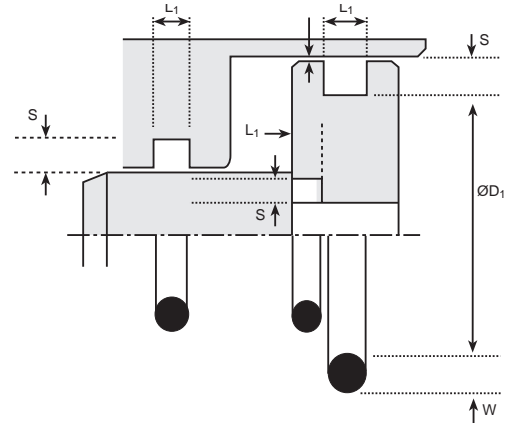
O-rings are a simple but very versatile seal. They are most commonly used for static applications, and for pressures over 1500 p.s.i are used with back up rings (See Section).

O-rings with sizes to AS-568A are available in NBR 70 and 90 Shore A compounds and in FKM 75 Shore A.

O-rings in NBR and FKM are suitable for use in mineral oil, water and air, FKM O-rings are also suitable for use in most aggressive fluids and in temperatures of up to 200°C/390°F.

O-RINGS

O-rings



Design Table for industrial O-ring static seal housing

O ring size AS-	Cross Section		Gland depth S	Squeeze actual	%	Extrusion Gap F*	Groove Width L		
	Nominal	O ring					No backups	One backup	Two backups
004	1/16	0.070	0.050	0.015	22	0.002	0.093	0.138	0.205
050		±0.003	0.052	0.023	32	0.005	0.098	0.143	0.210
102				0.081	0.017	17	0.002	0.140	0.171
178	3/32	0.103	0.083	0.025	24	0.005	0.145	0.176	0.243
201		±0.003	0.111	0.022	16	0.003	0.187	0.208	0.275
284	1/8	0.139	0.113	0.032	23	0.006	0.192	0.213	0.280
309		±0.004	0.170	0.032	15	0.003	0.281	0.311	0.410
395	3/16	0.210	0.173	0.045	21	0.006	0.286	0.316	0.415
425		±0.005	0.226	0.040	15	0.004	0.375	0.408	0.538
475	1/4	0.275	0.229	0.055	20	0.007	0.380	0.413	0.534
		±0.006							

Design Table for industrial O-ring housing for reciprocating applications

O ring size AS-	Cross Section		Gland depth S	Squeeze actual	%	Extrusion Gap F*	Groove Width L		
	Nominal	O ring					No backups	One backup	Two backups
006	1/16	0.070	0.055	0.010	15	0.002	0.093	0.138	0.205
012		±0.003	0.057	0.018	25	0.005	0.098	0.143	0.210
104				0.088	0.010	10	0.002	0.140	0.171
116	3/32	0.103	0.090	0.018	17	0.005	0.145	0.176	0.243
201		±0.003	0.121	0.012	9	0.003	0.187	0.208	0.275
222	1/8	0.139	0.123	0.022	16	0.006	0.192	0.213	0.280
309		±0.004	0.185	0.017	8	0.003	0.281	0.311	0.410
349	3/16	0.210	0.189	0.030	14	0.006	0.286	0.316	0.415
425		±0.005	0.237	0.029	11	0.004	0.375	0.408	0.538
460	1/4	0.275	0.240	0.044	16	0.007	0.380	0.413	0.543
		±0.006							

* Extrusion gap F must be held to an absolute minimum consistent with the design requirements for variations in temperature and should not exceed the values shown in the tables above except at zero or low operating pressures. Value shows the minimum recommended gap and the maximum permissible gap all on one side using minimum rod Ø and maximum clearance Ø.

AS-568 O Rings

Nominal ID	OD	Cross Section	Ød ₁	Dimensions TOL	W.	Dimensions TOL	AS-568 No.	Nominal ID	OD	Cross Section	Ød ₁	Dimensions TOL	W.	Dimensions TOL	AS-568 No.
1/32	3/32	1/32	0.029	+0.004	0.040	+0.003	-001	3 1/4	3 3/8	1/16	3.239	+0.024	0.070	+0.003	-042
3/64	9/64	3/64	0.042	+0.004	0.050	+0.003	-002	3 1/2	3 5/8	1/16	3.489	+0.024	0.070	+0.003	-043
1/16	3/16	1/16	0.056	+0.004	0.060	+0.003	-003	3 3/4	3 7/8	1/16	3.739	+0.027	0.070	+0.003	-044
5/64	13/64	1/16	0.070	+0.005	0.070	+0.003	-004	4	4 1/8	1/16	3.989	+0.027	0.070	+0.003	-045
3/32	7/32	1/16	0.101	+0.005	0.070	+0.003	-005	4 1/4	4 3/8	1/16	4.239	+0.030	0.070	+0.003	-046
1/8	1/4	1/16	0.114	+0.005	0.070	+0.003	-006	4 1/2	4 5/8	1/16	4.489	+0.030	0.070	+0.003	-047
5/32	9/32	1/16	0.145	+0.005	0.070	+0.003	-007	4 3/4	4 7/8	1/16	4.739	+0.030	0.070	+0.003	-048
3/16	5/16	1/16	0.176	+0.005	0.070	+0.003	-008	5	5 1/8	1/16	4.989	+0.037	0.070	+0.003	-049
7/32	11/32	1/16	0.208	+0.005	0.070	+0.003	-009	5 1/4	5 3/8	1/16	5.239	+0.037	0.070	+0.003	-050
1/4	3/8	1/16	0.239	+0.005	0.070	+0.003	-010								
5/16	7/16	1/16	0.301	+0.005	0.070	+0.003	-011	1/16	1/4	3/32	0.049	+0.005	0.103	+0.003	-102
3/8	1/2	1/16	0.364	+0.005	0.070	+0.003	-012	3/32	9/32	3/32	0.081	+0.005	0.103	+0.003	-103
7/16	9/16	1/16	0.426	+0.005	0.070	+0.003	-013	1/8	5/16	3/32	0.112	+0.005	0.103	+0.003	-104
1/2	5/8	1/16	0.489	+0.005	0.070	+0.003	-014	5/32	11/32	3/32	0.143	+0.005	0.103	+0.003	-105
9/16	11/16	1/16	0.551	+0.007	0.070	+0.003	-015	3/16	3/8	3/32	0.174	+0.005	0.103	+0.003	-106
5/8	3/4	1/16	0.614	+0.009	0.070	+0.003	-016	7/32	13/32	3/32	0.206	+0.005	0.103	+0.003	-107
11/16	13/16	1/16	0.676	+0.009	0.070	+0.003	-017	1/4	7/16	3/32	0.237	+0.005	0.103	+0.003	-108
3/4	7/8	1/16	0.739	+0.009	0.070	+0.003	-018	5/16	1/2	3/32	0.298	+0.005	0.103	+0.003	-109
13/16	15/16	1/16	0.801	+0.009	0.070	+0.003	-019	3/8	9/16	3/32	0.362	+0.005	0.103	+0.003	-110
7/8	1	1/16	0.864	+0.009	0.070	+0.003	-020	7/16	5/8	3/32	0.424	+0.005	0.103	+0.003	-111
15/16	1 1/16	1/16	0.926	+0.009	0.070	+0.003	-021	1/2	11/16	3/32	0.487	+0.005	0.103	+0.003	-112
1	1 1/8	1/16	0.989	+0.010	0.070	+0.003	-022	9/16	3/4	3/32	0.549	+0.005	0.103	+0.003	-113
1 1/16	1 3/16	1/16	1.051	+0.010	0.070	+0.003	-023	5/8	13/16	3/32	0.612	+0.009	0.103	+0.003	-114
1 1/8	1 1/4	1/16	1.114	+0.010	0.070	+0.003	-024	11/16	7/8	3/32	0.674	+0.009	0.103	+0.003	-115
1 3/16	1 5/16	1/16	1.176	+0.011	0.070	+0.003	-025	3/4	15/16	3/32	0.737	+0.009	0.103	+0.003	-116
1 1/4	1 3/8	1/16	1.239	+0.011	0.070	+0.003	-026	13/16	1	3/32	0.799	+0.010	0.103	+0.003	-117
1 5/16	1 7/16	1/16	1.301	+0.011	0.070	+0.003	-027	7/8	1 1/16	3/32	0.862	+0.010	0.103	+0.003	-118
1 3/8	1 1/2	1/16	1.364	+0.013	0.070	+0.003	-028	15/16	1 1/8	3/32	0.924	+0.010	0.103	+0.003	-119
1 1/2	1 5/8	1/16	1.489	+0.013	0.070	+0.003	-029	1	1 3/16	3/32	0.987	+0.010	0.103	+0.003	-120
1 5/8	1 3/4	1/16	1.614	+0.013	0.070	+0.003	-030	1 1/16	1 1/4	3/32	1.049	+0.010	0.103	+0.003	-121
1 3/4	1 7/8	1/16	1.739	+0.015	0.070	+0.003	-031	1 1/8	1 5/16	3/32	1.112	+0.010	0.103	+0.003	-122
1 7/8	2	1/16	1.864	+0.015	0.070	+0.003	-032	1 3/16	1 3/8	3/32	1.174	+0.012	0.103	+0.003	-123
2	2 1/8	1/16	1.989	+0.018	0.070	+0.003	-033	1 1/4	1 7/16	3/32	1.237	+0.012	0.103	+0.003	-124
2 1/8	2 1/4	1/16	2.114	+0.018	0.070	+0.003	-034	1 5/16	1 1/2	3/32	1.299	+0.012	0.103	+0.003	-125
2 1/4	2 3/8	1/16	2.239	+0.018	0.070	+0.003	-035	1 3/8	1 9/16	3/32	1.362	+0.012	0.103	+0.003	-126
2 3/8	2 1/2	1/16	2.364	+0.018	0.070	+0.003	-036	1 7/16	1 5/8	3/32	1.424	+0.012	0.103	+0.003	-127
2 1/2	2 5/8	1/16	2.489	+0.018	0.070	+0.003	-037	1 1/2	1 11/16	3/32	1.487	+0.012	0.103	+0.003	-128
2 5/8	2 3/4	1/16	2.614	+0.020	0.070	+0.003	-038	1 9/16	1 3/4	3/32	1.549	+0.015	0.103	+0.003	-129
2 3/4	2 7/8	1/16	2.739	+0.020	0.070	+0.003	-039	1 5/8	1 13/16	3/32	1.612	+0.015	0.103	+0.003	-130
2 7/8	3	1/16	2.864	+0.020	0.070	+0.003	-040	1 11/16	1 7/8	3/32	1.674	+0.015	0.103	+0.003	-131
3	3 1/8	1/16	2.989	+0.024	0.070	+0.003	-041	1 3/4	1 15/16	3/32	1.737	+0.015	0.103	+0.003	-132

AS-568 O Rings

Nominal ID	OD	Cross Section	Ød ₁	Dimensions			AS-568 No.
				TOL	W.	TOL	
1 13/16	2	3/32	1.799	+0.015	0.103	+0.003	-133
1 7/8	2 1/16	3/32	1.862	+0.015	0.103	+0.003	-134
1 15/16	2 1/8	3/32	1.925	+0.017	0.103	+0.003	-135
2	2 3/16	3/32	1.987	+0.017	0.103	+0.003	-136
2 1/16	2 1/4	3/32	2.050	+0.017	0.103	+0.003	-137
2 1/8	2 5/16	3/32	2.112	+0.017	0.103	+0.003	-138
2 3/16	2 3/8	3/32	2.175	+0.017	0.103	+0.003	-139
2 1/4	2 7/16	3/32	2.237	+0.017	0.103	+0.003	-140
2 5/8	2 1/2	3/32	2.300	+0.020	0.103	+0.003	-141
2 3/8	2 9/16	3/32	2.362	+0.020	0.103	+0.003	-142
2 7/8	2 5/8	3/32	2.425	+0.020	0.103	+0.003	-143
2 1/2	2 11/16	3/32	2.487	+0.020	0.103	+0.003	-144
2 9/16	2 3/4	3/32	2.550	+0.020	0.103	+0.003	-145
2 5/8	2 13/16	3/32	2.612	+0.020	0.103	+0.003	-146
2 11/16	2 7/8	3/32	2.675	+0.022	0.103	+0.003	-147
2 3/4	2 15/16	3/32	2.737	+0.022	0.103	+0.003	-148
2 13/16	3	3/32	2.800	+0.022	0.103	+0.003	-149
2 7/8	3 1/16	3/32	2.862	+0.022	0.103	+0.003	-150
3	3 3/16	3/32	2.987	+0.024	0.103	+0.003	-151
3 1/4	3 7/16	3/32	3.237	+0.024	0.103	+0.003	-152
3 1/2	3 11/16	3/32	3.487	+0.024	0.103	+0.003	-153
3 3/4	3 15/16	3/32	3.737	+0.028	0.103	+0.003	-154
4	4 3/16	3/32	3.987	+0.028	0.103	+0.003	-155
4 1/4	4 7/16	3/32	4.237	+0.030	0.103	+0.003	-156
4 1/2	4 11/16	3/32	4.487	+0.030	0.103	+0.003	-157
4 3/4	4 15/16	3/32	4.737	+0.030	0.103	+0.003	-158
5	5 3/16	3/32	4.987	+0.035	0.103	+0.003	-159
5 1/4	5 7/16	3/32	5.237	+0.035	0.103	+0.003	-160
5 1/2	5 11/16	3/32	5.487	+0.035	0.103	+0.003	-161
5 3/4	5 15/16	3/32	5.737	+0.035	0.103	+0.003	-162
6	6 3/16	3/32	5.987	+0.035	0.103	+0.003	-163
6 1/4	6 7/16	3/32	6.237	+0.040	0.103	+0.003	-164
6 1/2	6 11/16	3/32	6.487	+0.040	0.103	+0.003	-165
6 3/4	6 15/16	3/32	6.737	+0.040	0.103	+0.003	-166
7	7 3/16	3/32	6.987	+0.040	0.103	+0.003	-167
7 1/4	7 7/16	3/32	7.237	+0.045	0.103	+0.003	-168
7 1/2	7 11/16	3/32	7.487	+0.045	0.103	+0.003	-169
7 3/4	7 15/16	3/32	7.737	+0.045	0.103	+0.003	-170
8	8 3/16	3/32	7.987	+0.045	0.103	+0.003	-171
8 1/4	8 7/16	3/32	8.237	+0.050	0.103	+0.003	-172
8 1/2	8 11/16	3/32	8.487	+0.050	0.103	+0.003	-173

Nominal ID	OD	Cross Section	Ød ₁	Dimensions			AS-568 No.
				TOL	W.	TOL	
8 3/4	8 15/16	3/32	8.737	+0.050	0.103	+0.003	-174
9	9 3/16	3/32	8.987	+0.050	0.103	+0.003	-175
9 1/4	9 7/16	3/32	9.237	+0.055	0.103	+0.003	-176
9 1/2	9 11/16	3/32	9.487	+0.055	0.103	+0.003	-177
9 3/4	9 15/16	3/32	9.737	+0.055	0.103	+0.003	-178
3/16	7/16	1/8	0.171	+0.005	0.139	+0.004	-201
1/4	1/2	1/8	0.234	+0.005	0.139	+0.004	-202
5/16	9/16	1/8	0.296	+0.005	0.139	+0.004	-203
3/8	5/8	1/8	0.359	+0.005	0.139	+0.004	-204
7/16	11/16	1/8	0.421	+0.005	0.139	+0.004	-205
1/2	3/4	1/8	0.484	+0.005	0.139	+0.004	-206
9/16	13/16	1/8	0.546	+0.007	0.139	+0.004	-207
5/8	7/8	1/8	0.609	+0.009	0.139	+0.004	-208
11/16	15/16	1/8	0.671	+0.009	0.139	+0.004	-209
3/4	1	1/8	0.734	+0.010	0.139	+0.004	-210
13/16	1 1/16	1/8	0.796	+0.010	0.139	+0.004	-211
7/8	1 1/8	1/8	0.859	+0.010	0.139	+0.004	-212
15/16	1 3/16	1/8	0.921	+0.010	0.139	+0.004	-213
1	1 1/4	1/8	0.984	+0.010	0.139	+0.004	-214
1 1/16	1 5/16	1/8	1.046	+0.010	0.139	+0.004	-215
1 1/8	1 3/8	1/8	1.109	+0.012	0.139	+0.004	-216
1 3/16	1 7/16	1/8	1.171	+0.012	0.139	+0.004	-217
1 1/4	1 1/2	1/8	1.234	+0.012	0.139	+0.004	-218
1 5/16	1 9/16	1/8	1.296	+0.012	0.139	+0.004	-219
1 3/8	1 5/8	1/8	1.359	+0.012	0.139	+0.004	-220
1 7/16	1 11/16	1/8	1.421	+0.012	0.139	+0.004	-221
1 1/2	1 3/4	1/8	1.484	+0.015	0.139	+0.004	-222
1 5/8	1 7/8	1/8	1.609	+0.015	0.139	+0.004	-223
1 3/4	2	1/8	1.734	+0.015	0.139	+0.004	-224
1 7/8	2 1/8	1/8	1.859	+0.018	0.139	+0.004	-225
2	2 1/4	1/8	1.984	+0.018	0.139	+0.004	-226
2 1/8	2 3/8	1/8	2.109	+0.018	0.139	+0.004	-227
2 1/4	2 1/2	1/8	2.234	+0.020	0.139	+0.004	-228
2 3/8	2 5/8	1/8	2.359	+0.020	0.139	+0.004	-229
2 1/2	2 3/4	1/8	2.484	+0.020	0.139	+0.004	-230
2 5/8	2 7/8	1/8	2.609	+0.020	0.139	+0.004	-231
2 3/4	3	1/8	2.734	+0.024	0.139	+0.004	-232
2 7/8	3 1/8	1/8	2.859	+0.024	0.139	+0.004	-233
3	3 1/4	1/8	2.984	+0.024	0.139	+0.004	-234
3 1/8	3 3/8	1/8	3.109	+0.024	0.139	+0.004	-235

AS-568 O Rings

Nominal ID	OD	Cross Section	Ød ₁	Dimensions TOL	W.	Dimensions TOL	AS-568 No.
3 1/4	3 1/2	1/8	3.234	+0.024	0.139	+0.004	-236
3 3/8	3 5/8	1/8	3.359	+0.024	0.139	+0.004	-237
3 1/2	3 3/4	1/8	3.484	+0.024	0.139	+0.004	-238
3 5/8	3 7/8	1/8	3.609	+0.028	0.139	+0.004	-239
3 3/4	4	1/8	3.734	+0.028	0.139	+0.004	-240
3 7/8	4 1/8	1/8	3.859	+0.028	0.139	+0.004	-241
4	4 1/4	1/8	3.984	+0.028	0.139	+0.004	-242
4 1/8	4 3/8	1/8	4.109	+0.028	0.139	+0.004	-243
4 1/4	4 1/2	1/8	4.234	+0.030	0.139	+0.004	-244
4 3/8	4 5/8	1/8	4.359	+0.030	0.139	+0.004	-245
4 1/2	4 3/4	1/8	4.484	+0.030	0.139	+0.004	-246
4 5/8	4 7/8	1/8	4.609	+0.030	0.139	+0.004	-247
4 3/4	5	1/8	4.734	+0.030	0.139	+0.004	-248
4 7/8	5 1/8	1/8	4.859	+0.035	0.139	+0.004	-249
5	5 1/4	1/8	4.984	+0.035	0.139	+0.004	-250
5 1/8	5 3/8	1/8	5.109	+0.035	0.139	+0.004	-251
5 1/4	5 1/2	1/8	5.234	+0.035	0.139	+0.004	-252
5 3/8	5 5/8	1/8	5.359	+0.035	0.139	+0.004	-253
5 1/2	5 3/4	1/8	5.484	+0.035	0.139	+0.004	-254
5 5/8	5 7/8	1/8	5.609	+0.035	0.139	+0.004	-255
5 3/4	6	1/8	5.734	+0.035	0.139	+0.004	-256
5 7/8	6 1/8	1/8	5.859	+0.035	0.139	+0.004	-257
6	6 1/4	1/8	5.984	+0.035	0.139	+0.004	-258
6 1/4	6 1/2	1/8	6.234	+0.040	0.139	+0.004	-259
6 1/2	6 3/4	1/8	6.484	+0.040	0.139	+0.004	-260
6 3/4	7	1/8	6.734	+0.040	0.139	+0.004	-261
7	7 1/4	1/8	6.984	+0.040	0.139	+0.004	-262
7 1/4	7 1/2	1/8	7.234	+0.045	0.139	+0.004	-263
7 1/2	7 3/4	1/8	7.484	+0.045	0.139	+0.004	-264
7 3/4	8	1/8	7.734	+0.045	0.139	+0.004	-265
8	8 1/4	1/8	7.984	+0.045	0.139	+0.004	-266
8 1/4	8 1/2	1/8	8.234	+0.050	0.139	+0.004	-267
8 1/2	8 3/4	1/8	8.484	+0.050	0.139	+0.004	-268
8 3/4	9	1/8	8.734	+0.050	0.139	+0.004	-269
9	9 1/4	1/8	8.984	+0.050	0.139	+0.004	-270
9 1/4	9 1/2	1/8	9.234	+0.055	0.139	+0.004	-271
9 1/2	9 3/4	1/8	9.484	+0.055	0.139	+0.004	-272
9 3/4	10	1/8	9.734	+0.055	0.139	+0.004	-273
10	10 1/4	1/8	9.984	+0.055	0.139	+0.004	-274
10 1/2	10 3/4	1/8	10.484	+0.055	0.139	+0.004	-275
11	11 1/4	1/8	10.984	+0.065	0.139	+0.004	-276
11 1/2	11 3/4	1/8	11.484	+0.065	0.139	+0.004	-277
12	12 1/4	1/8	11.984	+0.065	0.139	+0.004	-278
13	13 1/4	1/8	12.984	+0.065	0.139	+0.004	-279
14	14 1/4	1/8	13.984	+0.065	0.139	+0.004	-280
15	15 1/4	1/8	14.984	+0.065	0.139	+0.004	-281
16	16 1/4	1/8	15.955	+0.075	0.139	+0.004	-282
17	17 1/4	1/8	16.955	+0.080	0.139	+0.004	-283
18	18 1/4	1/8	17.955	+0.085	0.139	+0.004	-284
7/16	13/16	3/16	0.412	+0.005	0.210	+0.005	-309
1/2	7/8	3/16	0.475	+0.005	0.210	+0.005	-310
9/16	15/16	3/16	0.537	+0.007	0.210	+0.005	-311
5/8	1	3/16	0.600	+0.009	0.210	+0.005	-312
11/16	1 1/16	3/16	0.662	+0.009	0.210	+0.005	-313
3/4	1 1/8	3/16	0.725	+0.010	0.210	+0.005	-314
13/16	1 3/16	3/16	0.787	+0.010	0.210	+0.005	-315
7/8	1 1/4	3/16	0.850	+0.010	0.210	+0.005	-316
15/16	1 5/16	3/16	0.912	+0.010	0.210	+0.005	-317
1	1 3/8	3/16	0.975	+0.010	0.210	+0.005	-318
1 1/16	1 7/16	3/16	1.037	+0.010	0.210	+0.005	-319
1 1/8	1 1/2	3/16	1.100	+0.012	0.210	+0.005	-320
1 3/16	1 9/16	3/16	1.162	+0.012	0.210	+0.005	-321
1 1/4	1 5/8	3/16	1.225	+0.012	0.210	+0.005	-322
1 5/16	1 11/16	3/16	1.287	+0.012	0.210	+0.005	-323
1 3/8	1 3/4	3/16	1.350	+0.012	0.210	+0.005	-324
1 1/2	1 7/8	3/16	1.475	+0.015	0.210	+0.005	-325
1 5/8	2	3/16	1.600	+0.015	0.210	+0.005	-326
1 3/4	2 1/8	3/16	1.725	+0.015	0.210	+0.005	-327
1 7/8	2 1/4	3/16	1.850	+0.015	0.210	+0.005	-328
2	2 3/8	3/16	1.975	+0.018	0.210	+0.005	-329
2 1/8	2 1/2	3/16	2.100	+0.018	0.210	+0.005	-330
2 1/4	2 5/8	3/16	2.225	+0.018	0.210	+0.005	-331
2 3/8	2 3/4	3/16	2.350	+0.018	0.210	+0.005	-332
2 1/2	2 7/8	3/16	2.475	+0.020	0.210	+0.005	-333
2 5/8	3	3/16	2.600	+0.020	0.210	+0.005	-334
2 3/4	3 1/8	3/16	2.725	+0.020	0.210	+0.005	-335
2 7/8	3 1/4	3/16	2.850	+0.020	0.210	+0.005	-336
3	3 3/8	3/16	2.975	+0.024	0.210	+0.005	-337
3 1/8	3 1/2	3/16	3.100	+0.024	0.210	+0.005	-338
3 1/4	3 5/8	3/16	3.225	+0.024	0.210	+0.005	-339
3 3/8	3 3/4	3/16	3.350	+0.024	0.210	+0.005	-340
3 1/2	3 7/8	3/16	3.475	+0.024	0.210	+0.005	-341

AS-568 O Rings

Nominal ID	OD	Cross Section	Ød ₁	Dimensions			AS-568	
				TOL	W.	TOL	No.	
3 5/8	4	3/16	3.600	+0.028	0.210	+0.005	-342	
3 3/4	4 1/8	3/16	3.725	+0.028	0.210	+0.005	-343	
3 7/8	4 1/4	3/16	3.850	+0.028	0.210	+0.005	-344	
4	4 3/8	3/16	3.975	+0.028	0.210	+0.005	-345	
4 1/8	4 1/2	3/16	4.100	+0.028	0.210	+0.005	-346	
4 1/4	4 5/8	3/16	4.225	+0.030	0.210	+0.005	-347	
4 3/8	4 3/4	3/16	4.350	+0.030	0.210	+0.005	-348	
4 1/2	4 7/8	3/16	4.475	+0.030	0.210	+0.005	-349	
4 5/8	5	3/16	4.600	+0.030	0.210	+0.005	-350	
4 3/4	5 1/8	3/16	4.725	+0.030	0.210	+0.005	-351	
4 7/8	5 1/4	3/16	4.850	+0.030	0.210	+0.005	-352	
5	5 3/8	3/16	4.975	+0.037	0.210	+0.005	-353	
5 1/8	5 1/2	3/16	5.100	+0.037	0.210	+0.005	-354	
5 1/4	5 5/8	3/16	5.225	+0.037	0.210	+0.005	-355	
5 3/8	5 3/4	3/16	5.350	+0.037	0.210	+0.005	-356	
5 1/2	5 7/8	3/16	5.475	+0.037	0.210	+0.005	-357	
5 5/8	6	3/16	5.600	+0.037	0.210	+0.005	-358	
5 3/4	6 1/8	3/16	5.725	+0.037	0.210	+0.005	-359	
5 7/8	6 1/4	3/16	5.850	+0.037	0.210	+0.005	-360	
6	6 3/8	3/16	5.975	+0.037	0.210	+0.005	-361	
6 1/4	6 5/8	3/16	6.225	+0.040	0.210	+0.005	-362	
6 1/2	6 7/8	3/16	6.475	+0.040	0.210	+0.005	-363	
6 3/4	7 1/8	3/16	6.725	+0.040	0.210	+0.005	-364	
7	7 3/8	3/16	6.975	+0.040	0.210	+0.005	-365	
7 1/4	7 5/8	3/16	7.225	+0.045	0.210	+0.005	-366	
7 1/2	7 7/8	3/16	7.475	+0.045	0.210	+0.005	-367	
7 3/4	8 1/8	3/16	7.725	+0.045	0.210	+0.005	-368	
8	8 3/8	3/16	7.975	+0.045	0.210	+0.005	-369	
8 1/4	8 5/8	3/16	8.225	+0.050	0.210	+0.005	-370	
8 1/2	8 7/8	3/16	8.475	+0.050	0.210	+0.005	-371	
8 3/4	9 1/8	3/16	8.725	+0.050	0.210	+0.005	-372	
9	9 3/8	3/16	8.975	+0.050	0.210	+0.005	-373	
9 1/4	9 5/8	3/16	9.225	+0.055	0.210	+0.005	-374	
9 1/2	9 7/8	3/16	9.475	+0.055	0.210	+0.005	-375	
9 3/4	10 1/8	3/16	9.725	+0.055	0.210	+0.005	-376	
10	10 3/8	3/16	9.975	+0.055	0.210	+0.005	-377	
10 1/2	10 7/8	3/16	10.475	+0.060	0.210	+0.005	-378	
11	11 3/8	3/16	10.975	+0.060	0.210	+0.005	-379	
11 1/2	11 7/8	3/16	11.475	+0.065	0.210	+0.005	-380	
12	12 3/8	3/16	11.975	+0.065	0.210	+0.005	-381	
13	13 3/8	3/16	12.975	+0.065	0.210	+0.005	-382	

Nominal ID	OD	Cross Section	Ød ₁	Dimensions			AS-568	
				TOL	W.	TOL	No.	
14	14 3/8	3/16	13.975	+0.070	0.210	+0.005	-383	
15	15 3/8	3/16	14.975	+0.070	0.210	+0.005	-384	
16	16 3/8	3/16	15.955	+0.075	0.210	+0.005	-385	
17	17 3/8	3/16	16.955	+0.080	0.210	+0.005	-386	
18	18 3/8	3/16	17.995	+0.085	0.210	+0.005	-387	
19	19 3/8	3/16	18.995	+0.090	0.210	+0.005	-388	
20	20 3/8	3/16	19.995	+0.095	0.210	+0.005	-389	
21	21 3/8	3/16	20.995	+0.095	0.210	+0.005	-390	
22	22 3/8	3/16	21.995	+0.100	0.210	+0.005	-391	
23	23 3/8	3/16	22.940	+0.105	0.210	+0.005	-392	
24	24 3/8	3/16	23.940	+0.110	0.210	+0.005	-393	
25	25 3/8	3/16	24.940	+0.115	0.210	+0.005	-394	
26	26 3/8	3/16	25.940	+0.120	0.210	+0.005	-395	
4 1/2	5	1/4	4.475	+0.033	0.275	+0.006	-425	
4 5/8	5 1/8	1/4	4.600	+0.033	0.275	+0.006	-426	
4 3/4	5 1/4	1/4	4.725	+0.033	0.275	+0.006	-427	
4 7/8	5 3/8	1/4	4.850	+0.033	0.275	+0.006	-428	
5	5 1/2	1/4	4.975	+0.037	0.275	+0.006	-429	
5 1/8	5 5/8	1/4	5.100	+0.037	0.275	+0.006	-430	
5 1/4	5 3/4	1/4	5.225	+0.037	0.275	+0.006	-431	
5 3/8	5 7/8	1/4	5.350	+0.037	0.275	+0.006	-432	
5 1/2	6	1/4	5.475	+0.037	0.275	+0.006	-433	
5 5/8	6 1/8	1/4	5.600	+0.037	0.275	+0.006	-434	
5 3/4	6 1/4	1/4	5.725	+0.037	0.275	+0.006	-435	
5 7/8	6 3/8	1/4	5.850	+0.037	0.275	+0.006	-436	
6	6 1/2	1/4	5.975	+0.037	0.275	+0.006	-437	
6 1/4	6 3/4	1/4	6.225	+0.040	0.275	+0.006	-438	
6 1/2	7	1/4	6.475	+0.040	0.275	+0.006	-439	
6 3/4	7 1/4	1/4	6.725	+0.040	0.275	+0.006	-440	
7	7 1/2	1/4	6.975	+0.040	0.275	+0.006	-441	
7 1/4	7 3/4	1/4	7.225	+0.045	0.275	+0.006	-442	
7 1/2	8	1/4	7.475	+0.045	0.275	+0.006	-443	
7 3/4	8 1/4	1/4	7.725	+0.045	0.275	+0.006	-444	
8	8 1/2	1/4	7.975	+0.045	0.275	+0.006	-445	
8 1/2	9	1/4	8.475	+0.055	0.275	+0.006	-446	
9	9 1/2	1/4	8.975	+0.055	0.275	+0.006	-447	
9 1/2	10	1/4	9.475	+0.055	0.275	+0.006	-448	
10	10 1/2	1/4	9.975	+0.055	0.275	+0.006	-449	
10 1/2	11	1/4	10.475	+0.060	0.275	+0.006	-450	
11	11 1/2	1/4	10.975	+0.060	0.275	+0.006	-451	

AS-568 O Rings

Nominal ID	OD	Cross Section	Ød ₁	Dimensions			AS-568 No.	Nominal ID	OD	Cross Section	Ød ₁	Dimensions			AS-568 No.
				TOL	W.	TOL						TOL	W.	TOL	
11 1/2	12	1/4	11.475	+0.060	0.275	+0.006	-452	17 1/2	18	1/4	17.455	+0.085	0.275	+0.006	-464
12	12 1/2	1/4	11.975	+0.060	0.275	+0.006	-453	18	18 1/2	1/4	17.955	+0.085	0.275	+0.006	-465
12 1/2	13	1/4	12.475	+0.060	0.275	+0.006	-454	18 1/2	19	1/4	18.455	+0.085	0.275	+0.006	-466
13	13 1/2	1/4	12.975	+0.060	0.275	+0.006	-455	19	19 1/2	1/4	18.955	+0.090	0.275	+0.006	-467
13 1/2	14	1/4	13.475	+0.070	0.275	+0.006	-456	19 1/2	20	1/4	19.455	+0.090	0.275	+0.006	-468
14	14 1/2	1/4	13.975	+0.070	0.275	+0.006	-457	20	20 1/2	1/4	19.955	+0.090	0.275	+0.006	-469
14 1/2	15	1/4	14.475	+0.070	0.275	+0.006	-458	21	21 1/2	1/4	20.955	+0.090	0.275	+0.006	-470
15	15 1/2	1/4	14.975	+0.070	0.275	+0.006	-459	22	22 1/2	1/4	21.955	+0.100	0.275	+0.006	-471
15 1/2	16	1/4	15.475	+0.070	0.275	+0.006	-460	23	23 1/2	1/4	22.940	+0.105	0.275	+0.006	-472
16	16 1/2	1/4	15.955	+0.075	0.275	+0.006	-461	24	24 1/2	1/4	23.940	+0.110	0.275	+0.006	-473
16 1/2	17	1/4	16.455	+0.075	0.275	+0.006	-462	25	25 1/2	1/4	24.940	+0.115	0.275	+0.006	-474
17	17 1/2	1/4	16.955	+0.080	0.275	+0.006	-463	26	26 1/2	1/4	25.940	+0.120	0.275	+0.006	-475

AS-568 O Rings

inch - Standard O Ring gaskets for straight thread tube fittings

NOMINAL TUBE SIZE	Ød	DIMENSIONS			AS-568 No.
		TOL	W.	TOL	
3/32	0.185	± 0.005	0.056	± 0.003	-901
1/8	0.239	± 0.005	0.064	± 0.003	-902
3/16	0.301	± 0.005	0.064	± 0.003	-903
1/4	0.351	± 0.005	0.072	± 0.003	-904
5/16	0.414	± 0.005	0.072	± 0.003	-905
3/8	0.468	± 0.005	0.078	± 0.003	-906
7/16	0.530	± 0.005	0.082	± 0.003	-907
1/2	0.644	± 0.009	0.087	± 0.003	-908
9/16	0.706	± 0.009	0.097	± 0.003	-909
5/8	0.755	± 0.009	0.097	± 0.003	-910

NOMINAL TUBE SIZE	Ød	DIMENSIONS			AS-568 No.
		TOL	W.	TOL	
11/16	0.863	± 0.009	0.116	± 0.004	-911
3/4	0.924	± 0.009	0.116	± 0.004	-912
13/16	0.986	± 0.010	0.116	± 0.004	-913
7/8	1.047	± 0.010	0.116	± 0.004	-914
1	1.171	± 0.010	0.116	± 0.004	-916
1 1/8	1.355	± 0.012	0.116	± 0.004	-918
1 1/4	1.475	± 0.014	0.118	± 0.004	-920
1 1/2	1.720	± 0.014	0.118	± 0.004	-924
1 3/4	2.090	± 0.018	0.118	± 0.004	-928
2	2.337	± 0.018	0.118	± 0.004	-932