

O-Rings

STANDARD SIZES & MATERIALS

SEALCRAFT, INC.

300 SEALCRAFT DRIVE
WARRENTON, MO 63383

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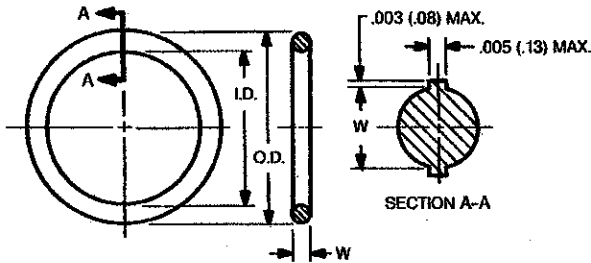
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W = .103 ± .003 (2.62 ± .08)

Nominal 3/32

Standard O-ring Sizes

All dimensions in inches (mm)



Dash No.	Nominal Size		Actual Size Inch			Actual Size Metric (mm)		
	I.D.	O.D.	I.D.	Tol. ±	W ± .003	I.D.	Tol. ±	W ± .08
001	1/32	3/32	.029	.003	.040	0.74	.08	0.74
002	3/64	9/64	.042	.003	.050	1.07	.08	1.07
003	1/16	3/16	.056	.003	.060	1.42	.08	1.42

W = .070 ± .003 (1.78 ± .08)

Nominal 1/16

Dash No.	Nominal Size		Actual Size Inch			Actual Size Metric (mm)	
	I.D.	O.D.	I.D.	Tol. ±	I.D.	Tol. ±	
004	5/64	13/64	.070	.005	1.78	.13	
005	3/32	7/32	.101		2.57		
006	1/8	1/4	.114		2.90		
007	5/32	9/32	.145		3.68		
008	3/16	5/16	.176		4.47		
009	7/32	11/32	.208		5.28		
010	1/4	3/8	.239		6.07		
011	5/16	7/16	.301		7.65		
012	3/8	1/2	.364		9.25		
013	7/16	9/16	.426		10.82		
014	1/2	5/8	.489	.005	12.42	.13	
015	9/16	11/16	.551	.007	14.00	.18	
016	5/8	3/4	.614	.009	15.60	.23	
017	11/16	13/16	.676		17.17		
018	3/4	7/8	.739		18.77		
019	7/8	15/16	.801		20.35		
020	7/8	1	.864		21.95		
021	15/16	1 1/16	.926	.009	23.52	.23	
022	1	1 1/8	.989	.010	25.12	.25	
023	1 1/16	1 3/16	1.051		26.70		
024	1 1/8	1 1/4	1.114	.010	28.30	.25	
025	1 3/16	1 7/16	1.176	.011	29.87	.28	
026	1 1/4	1 3/8	1.239		31.47		
027	1 5/16	1 7/8	1.301	.011	33.05	.28	
028	1 3/8	1 1/2	1.364	.013	34.65	.33	
029	1 1/2	1 5/8	1.489		37.82		
030	1 5/8	1 3/4	1.614	.013	41.00	.33	
031	1 3/4	1 7/8	1.739	.015	44.17	.38	
032	1 7/8	2	1.864	.015	47.35	.38	
033	2	2 1/8	1.989	.018	50.52	.46	
034	2 1/8	2 1/4	2.114		53.70		
035	2 1/4	2 3/8	2.239		56.87		
036	2 3/8	2 1/2	2.364		60.05		
037	2 1/2	2 5/8	2.489	.018	63.22	.46	
038	2 5/8	2 3/4	2.614	.020	66.40	.51	
039	2 3/4	2 7/8	2.739		69.57		
040	2 7/8	3	2.864	.020	72.75	.51	
041	3	3 1/8	2.989	.024	75.92	.61	
042	3 1/8	3 1/4	3.239		82.27		
043	3 1/4	3 3/8	3.489	.024	88.62	.61	
044	3 3/8	3 1/2	3.739	.027	94.97	.69	
045	4	4 1/8	3.989	.027	101.32	.69	
046	4 1/8	4 1/4	4.239	.030	107.67	.76	
047	4 1/4	4 3/8	4.489		114.02		
048	4 3/8	4 1/2	4.739	.030	120.37	.76	
049	5	5 1/8	4.989	.037	126.72	.94	
050	5 1/8	5 1/4	5.239	.037	133.07	.94	

Dash No.	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	I.D.	O.D.	I.D.	Tol. ±	I.D.	Tol. ±
102	1/8	1/4	.049	.005	1.24	.13
103	9/32	1/2	.081		2.06	
104	1/4	5/8	.112		2.84	
105	5/32	11/32	.143		3.63	
106	3/16	3/8	.174		4.42	
107	7/32	13/32	.206		5.23	
108	1/4	7/16	.237		6.02	
109	5/16	1/2	.299		7.59	
110	3/8	9/16	.362		9.19	
111	7/16	5/8	.424		10.77	
112	1/2	11/16	.487	.005	12.37	.13
113	9/16	3/4	.549	.007	13.94	.18
114	5/8	13/16	.612	.009	15.54	.23
115	11/16	7/8	.674		17.12	
116	3/4	15/16	.737	.009	18.72	.23
117	13/16	1	.799	.010	20.29	.25
118	7/8	1 1/16	.862		21.89	
119	15/16	1 1/8	.924		23.47	
120	1	1 3/16	.987		25.07	
121	1 1/16	1 1/4	1.049		26.64	
122	1 1/8	1 9/16	1.112	.010	28.24	.25
123	1 3/16	1 3/8	1.174	.012	29.82	.31
124	1 1/4	1 7/8	1.237		31.42	
125	1 5/16	1 1/2	1.299		32.99	
126	1 3/8	1 9/16	1.362		34.59	
127	1 7/16	1 5/8	1.424		36.17	
128	1 1/2	1 11/16	1.487	.012	37.77	.31
129	1 5/8	1 3/4	1.549	.015	39.34	.38
130	1 5/8	1 13/16	1.612		40.94	
131	1 11/16	1 7/8	1.674		42.52	
132	1 3/4	1 15/16	1.737		44.12	
133	1 13/16	2	1.799		45.69	
134	1 7/8	2 1/16	1.862	.015	47.29	.38
135	1 15/16	2 1/8	1.925	.017	48.90	.43
136	2	2 3/16	1.987		50.47	
137	2 1/16	2 1/4	2.050		52.07	
138	2 1/8	2 5/16	2.112		53.64	
139	2 3/16	2 3/8	2.175		55.25	
140	2 1/4	2 7/16	2.237	.017	56.82	.43
141	2 5/16	2 1/2	2.300	.020	58.42	.51
142	2 3/8	2 9/16	2.362		60.00	
143	2 7/16	2 5/8	2.425		61.60	
144	2 1/2	2 11/16	2.487		63.17	
145	2 5/8	2 3/4	2.550		64.77	
146	2 3/4	2 13/16	2.612	.020	66.34	.51
147	2 11/16	2 7/8	2.675	.022	67.95	.56
148	2 3/4	2 15/16	2.737		69.52	
149	2 13/16	3	2.800		71.12	
150	2 7/8	3 1/16	2.862	.022	72.69	.56
151	3	3 3/16	2.925	.024	75.87	.61
152	3 1/8	3 7/16	3.237		82.22	
153	3 1/4	3 11/16	3.487	.024	88.57	.61
154	3 3/8	3 13/16	3.737	.028	94.92	.71
155	4	4 1/8	3.987	.028	101.27	.71
156	4 1/8	4 3/8	4.237	.030	107.62	.76
157	4 1/4	4 7/16	4.487		113.97	
158	4 3/8	4 11/16	4.737	.030	120.32	.76
159	5	5 5/16	4.987	.035	126.67	.89
160	5 1/8	5 9/16	5.237		133.02	
161	5 1/4	5 13/16	5.487		139.37	
162	5 3/8	5 15/16	5.737		145.72	
163	6	6 3/16	5.987	.035	152.07	.89
164	6 1/8	6 7/16	6.237	.040	158.42	1.02
165	6 1/4	6 11/16	6.487		164.77	
166	6 3/8	6 13/16	6.737		171.12	
167	7	7 1/8	6.987	.040	177.47	1.02
168	7 1/8	7 3/16	7.237	.045	183.82	1.14
169	7 1/4	7 7/16	7.487		190.17	
170	7 3/8	7 9/16	7.737		196.52	
171	8	8 3/16	7.987	.045	202.87	1.14
172	8 1/8	8 7/16	8.237	.050	209.22	1.27
173	8 1/4	8 11/16	8.487		215.57	
174	8 3/8	8 13/16	8.737		221.92	
175	9	9 5/16	8.987	.050	228.27	1.27
176	9 1/8	9 9/16	9.237	.055	234.62	1.40
177	9 1/4	9 13/16	9.487		240.97	
178	9 3/8	9 15/16	9.737	.055	247.32	1.40

W = .275 ± .006 (6.99 ± .15)

Nominal 1/4

Dash No.	Nominal Size		Actual Size Inch		Actual Size Metric (mm)		Dash No.	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	I.D.	O.D.	I.D.	Tol. ±	I.D.	Tol. ±		I.D.	O.D.	I.D.	Tol. ±	I.D.	Tol. ±
425	4½	5	4.475	.033	113.67	.84	450	10½	11	10.475	.060	266.07	1.52
426	4¾	5½	4.600		116.84		451	11	11½	10.975		278.77	
427	4¾	5¼	4.725		120.02		452	11½	12	11.475		291.47	
428	4¾	5¾	4.850	.033	123.19	.84	453	12	12½	11.975		304.17	
429	5	5½	4.975	.037	126.37	.94	454	12½	13	12.475		316.87	
430	5½	5¾	5.100		129.54		455	13	13½	12.975	.060	329.57	1.52
431	5¼	5¾	5.225		132.72		456	13½	14	13.475	.070	342.27	1.78
432	5¾	5¾	5.350		135.89		457	14	14½	13.975		354.97	
433	5½	6	5.475		139.07		458	14½	15	14.475		367.67	
434	5¾	6¼	5.600		142.24		459	15	15½	14.975		380.37	
435	5¾	6¼	5.725		145.42		460	15½	16	15.475	.070	393.07	1.78
436	5¾	6¾	5.850		148.59		461	16	16½	15.955	.075	405.27	1.91
437	6	6¼	5.975	.037	151.77	.94	462	16½	17	16.455	.075	417.97	1.91
438	6¼	6¾	6.225	.040	158.12	1.02	463	17	17½	16.955	.080	430.67	2.03
439	6¼	7	6.475		164.47		464	17½	18	17.455	.085	443.37	2.16
440	6¾	7¼	6.725		170.82		465	18	18½	17.955		456.07	
441	7	7½	6.975	.040	177.17	1.02	466	18½	19	18.455	.085	468.76	2.16
442	7¼	7¾	7.225	.045	183.52	1.14	467	19	19½	18.955	.090	481.46	2.29
443	7½	8	7.475		189.87		468	19½	20	19.455	.090	494.16	2.29
444	7¾	8¼	7.725		196.22		469	20	20½	19.955	.095	506.86	2.41
445	8	8½	7.975	.045	202.57	1.14	470	21	21½	20.955	.095	532.26	2.41
446	8½	9	8.475	.055	215.27	1.40	471	22	22½	21.955	.100	557.86	2.54
447	9	9½	8.975		227.97		472	23	23½	22.940	.105	582.68	2.67
448	9½	10	9.475		240.67		473	24	24½	23.940	.110	608.08	2.79
449	10	10½	9.975	.055	253.37	1.40	474	25	25½	24.940	.115	633.48	2.92
							475	26	26½	25.940	.120	658.88	3.05

TUBE FITTING O-RINGS

Dash No.	O.D. (Ref.)	Actual Size Inch				Actual Size Metric (mm)			
		I.D.	Tol. ±	W	Tol. ±	I.D.	Tol. ±	W	Tol. ±
901	⅜	.185	.005	.056	.003	4.70	.13	1.42	.08
902	½	.239		.064		6.07		1.63	
903	⅝	.301		.064		7.65		1.63	
904	¾	.351		.072		8.92		1.83	
905	⅞	.414		.072		10.52		1.83	
906	1	.468		.078		11.89		1.98	
907	1⅛	.530		.082		13.46		2.08	
908	1¼	.644	.005	.087		16.36	.13	2.21	
909	1⅝	.706	.009	.097		17.93	.23	2.46	
910	1¾	.755		.097		19.18		2.46	
911	1⅞	.863		.116	.003	21.92		2.95	.08
912	2	.924	.009	.116	.004	23.47	.23	2.95	.10
913	1⅞	.986	.010	.116		25.04	.25	2.95	
914	2	1.047		.116		26.59		2.95	
916	1	1.171	.010	.116		29.74	.25	2.95	
918	1½	1.355	.012	.116		34.42	.30	2.95	
920	1¼	1.475	.014	.118		37.47	.36	3.00	
924	1½	1.720	.014	.118		43.69	.36	3.00	
928	1¾	2.090	.018	.118		53.09	.46	3.00	
932	2	2.337	.018	.118	.004	59.36	.46	3.00	.10

Base Polymer	Durometer	Temp. Range	Application
Ethylene-Propylene	70	-65 F to +300 F	Phosphate Ester Fluids, Brake Fluids, Water, Air, Steam
Neoprene	70	-65 F to +300 F	Freon Refrigerants, Refrigeration Oil, Weather Resistant
Nitrile (Buna N)	70	-40 F to +300 F	General purpose Petroleum Fluid Resistant, Hydraulic and Lubricating Oils, Fuels, Air
	90	-40 F to +250 F	
Polyacrylate	75	-10 F to +350 F	Petroleum Base Fluids, Lubricated
Silicone	70	-65 F to +450 F	Low and High Temperature, Air, Weather Resistant
Fluorocarbon	75	-40 F to +450 F	Aromatic Solvents, High Temperature Oils, Good Chemical Resistance
	90	-40 F to +450 F	