

International O-ring Standard Sizes

Millimeters			BS1806 Standard O-ring Size	Inches		
Internal Diameter (mm)	Internal Diameter Tolerance +/-	Cross Section (mm)		Internal Diameter (inches)	Internal Diameter Tolerance +/-	Cross Section (inches)
0.74	0.10	1.02 +/- 0.08	BS1806-001	0.029	0.004	0.040 +/- 0.003
1.07	0.10	1.27 +/- 0.08	BS1806-002	0.042	0.004	0.050 +/- 0.003
1.42	0.10	1.53 +/- 0.08	BS1806-003	0.056	0.004	0.060 +/- 0.003
1.78	0.13	1.78 +/- 0.08	BS1806-004	0.070	0.005	0.070 +/- 0.003
2.57	0.13		BS1806-005	0.101	0.005	
2.90	0.13		BS1806-006	0.114	0.005	
3.69	0.13		BS1806-007	0.145	0.005	
4.47	0.13		BS1806-008	0.176	0.005	
5.28	0.13		BS1806-009	0.208	0.005	
6.07	0.13		BS1806-010	0.239	0.005	
7.65	0.13		BS1806-011	0.301	0.005	
9.25	0.13		BS1806-012	0.364	0.005	
10.82	0.13		BS1806-013	0.426	0.005	
12.42	0.13		BS1806-014	0.489	0.005	
14.00	0.18		BS1806-015	0.551	0.007	
15.60	0.23		BS1806-016	0.614	0.009	
17.16	0.23		BS1806-017	0.676	0.009	
18.77	0.23		BS1806-018	0.739	0.009	
20.35	0.23		BS1806-019	0.801	0.009	
21.95	0.23		BS1806-020	0.864	0.009	
23.52	0.23		BS1806-021	0.926	0.009	
25.12	0.25		BS1806-022	0.989	0.010	
26.70	0.25		BS1806-023	1.051	0.010	
28.30	0.25		BS1806-024	1.114	0.010	
29.87	0.28		BS1806-025	1.176	0.011	
31.47	0.28		BS1806-026	1.239	0.011	
33.05	0.28		BS1806-027	1.301	0.011	
34.65	0.33		BS1806-028	1.364	0.013	
37.82	0.33		BS1806-029	1.489	0.013	
41.00	0.33		BS1806-030	1.614	0.013	
44.17	0.38		BS1806-031	1.739	0.015	
47.35	0.38		BS1806-032	1.864	0.015	
50.52	0.46		BS1806-033	1.989	0.018	
53.70	0.46		BS1806-034	2.114	0.018	
56.87	0.46		BS1806-035	2.239	0.018	
60.04	0.46		BS1806-036	2.364	0.018	
63.22	0.46		BS1806-037	2.489	0.018	
66.40	0.51		BS1806-038	2.614	0.020	
69.57	0.51		BS1806-039	2.739	0.020	
72.75	0.51		BS1806-040	2.864	0.020	
75.92	0.61		BS1806-041	2.989	0.024	
82.27	0.61		BS1806-042	3.239	0.024	
88.62	0.61		BS1806-043	3.489	0.024	
94.97	0.69		BS1806-044	3.739	0.027	
101.32	0.69		BS1806-045	3.989	0.027	
107.67	0.76		BS1806-046	4.239	0.030	
114.02	0.76		BS1806-047	4.489	0.030	
120.37	0.76		BS1806-048	4.739	0.030	
126.72	0.94		BS1806-049	4.989	0.037	
133.07	0.94		BS1806-050	5.239	0.037	
1.24	0.13	2.62 +/- 0.08	BS1806-102	0.049	0.005	0.103 +/- 0.003
2.06	0.13		BS1806-103	0.081	0.005	
2.84	0.13		BS1806-104	0.112	0.005	
3.63	0.13		BS1806-105	0.143	0.005	
4.42	0.13		BS1806-106	0.174	0.005	
5.23	0.13		BS1806-107	0.206	0.005	
6.02	0.13		BS1806-108	0.237	0.005	

BS1806 British Standard O-ring sizes (imperial)

International O-ring Standard Sizes

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Internal Diameter (mm)	Internal Diameter Tolerance +/-	Cross Section (mm)		Internal Diameter (inches)	Internal Diameter Tolerance +/-	Cross Section (inches)
7.59	0.13	2.62 +/- 0.08	BS1806-109	0.299	0.005	0.103 +/- 0.003
9.19	0.13		BS1806-110	0.362	0.005	
10.77	0.13		BS1806-111	0.424	0.005	
12.37	0.13		BS1806-112	0.487	0.005	
13.94	0.18		BS1806-113	0.549	0.007	
15.54	0.23		BS1806-114	0.612	0.009	
17.12	0.23		BS1806-115	0.674	0.009	
18.72	0.23		BS1806-116	0.737	0.009	
20.29	0.25		BS1806-117	0.799	0.010	
21.89	0.25		BS1806-118	0.862	0.010	
23.47	0.25		BS1806-119	0.924	0.010	
25.07	0.25		BS1806-120	0.987	0.010	
26.64	0.25		BS1806-121	1.049	0.010	
28.24	0.25		BS1806-122	1.112	0.010	
29.82	0.30		BS1806-123	1.174	0.012	
31.42	0.30		BS1806-124	1.237	0.012	
32.99	0.30		BS1806-125	1.299	0.012	
34.59	0.30		BS1806-126	1.362	0.012	
36.17	0.30		BS1806-127	1.424	0.012	
37.77	0.30		BS1806-128	1.487	0.012	
39.34	0.38		BS1806-129	1.549	0.015	
40.94	0.38		BS1806-130	1.612	0.015	
42.52	0.38		BS1806-131	1.674	0.015	
44.12	0.38		BS1806-132	1.737	0.015	
45.69	0.38		BS1806-133	1.799	0.015	
47.29	0.43		BS1806-134	1.862	0.017	
48.90	0.43		BS1806-135	1.925	0.017	
50.47	0.43		BS1806-136	1.987	0.017	
52.07	0.43		BS1806-137	2.050	0.017	
53.64	0.43		BS1806-138	2.112	0.017	
55.25	0.43		BS1806-139	2.175	0.017	
56.82	0.43		BS1806-140	2.237	0.017	
58.42	0.51		BS1806-141	2.300	0.020	
59.99	0.51		BS1806-142	2.362	0.020	
61.60	0.51		BS1806-143	2.425	0.020	
63.17	0.51		BS1806-144	2.487	0.020	
64.77	0.51		BS1806-145	2.550	0.020	
66.34	0.51		BS1806-146	2.612	0.020	
67.95	0.56		BS1806-147	2.675	0.022	
69.52	0.56		BS1806-148	2.737	0.022	
71.12	0.56		BS1806-149	2.800	0.022	
72.69	0.56		BS1806-150	2.862	0.022	
75.87	0.61		BS1806-151	2.987	0.024	
82.22	0.61		BS1806-152	3.237	0.024	
88.57	0.61		BS1806-153	3.487	0.024	
94.92	0.71		BS1806-154	3.737	0.028	
101.27	0.71		BS1806-155	3.987	0.028	
107.62	0.76		BS1806-156	4.237	0.030	
113.97	0.76		BS1806-157	4.487	0.030	
120.32	0.76		BS1806-158	4.737	0.030	
126.67	0.89		BS1806-159	4.987	0.035	
133.02	0.89		BS1806-160	5.237	0.035	
139.37	0.89		BS1806-161	5.487	0.035	
145.72	0.89		BS1806-162	5.737	0.035	
152.07	0.89		BS1806-163	5.987	0.035	
158.42	1.02		BS1806-164	6.237	0.040	
164.77	1.02		BS1806-165	6.487	0.040	
171.12	1.02		BS1806-166	6.737	0.040	
177.47	1.02		BS1806-167	6.987	0.040	
183.82	1.14		BS1806-168	7.237	0.045	

BS1806 British Standard O-ring sizes (imperial)

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Internal Diameter (mm)	Internal Diameter Tolerance +/-	Cross Section (mm)		Internal Diameter (inches)	Internal Diameter Tolerance +/-	Cross Section (inches)
190.17	1.14	2.62 +/- 0.08	BS1806-169	7.487	0.045	0.103 +/- 0.003
196.52	1.14		BS1806-170	7.737	0.045	
202.87	1.14		BS1806-171	7.987	0.045	
209.22	1.27		BS1806-172	8.237	0.050	
215.57	1.27		BS1806-173	8.487	0.050	
221.92	1.27		BS1806-174	8.737	0.050	
228.27	1.27		BS1806-175	8.987	0.050	
234.62	1.40		BS1806-176	9.237	0.055	
240.97	1.40		BS1806-177	9.487	0.055	
247.32	1.40		BS1806-178	9.737	0.055	
4.34	0.13	3.53 +/- 0.10	BS1806-201	0.171	0.005	0.139 +/- 0.004
5.94	0.13		BS1806-202	0.234	0.005	
7.52	0.13		BS1806-203	0.296	0.005	
9.12	0.13		BS1806-204	0.359	0.005	
10.69	0.13		BS1806-205	0.421	0.005	
12.29	0.13		BS1806-206	0.484	0.005	
13.87	0.18		BS1806-207	0.546	0.007	
15.47	0.23		BS1806-208	0.609	0.009	
17.04	0.23		BS1806-209	0.671	0.009	
18.64	0.25		BS1806-210	0.734	0.010	
20.22	0.25		BS1806-211	0.796	0.010	
21.82	0.25		BS1806-212	0.859	0.010	
23.39	0.25		BS1806-213	0.921	0.010	
24.99	0.25		BS1806-214	0.984	0.010	
26.57	0.25		BS1806-215	1.046	0.010	
28.17	0.30		BS1806-216	1.109	0.012	
29.74	0.30		BS1806-217	1.171	0.012	
31.34	0.30		BS1806-218	1.234	0.012	
32.92	0.30		BS1806-219	1.296	0.012	
34.52	0.30		BS1806-220	1.359	0.012	
36.09	0.30		BS1806-221	1.421	0.012	
37.69	0.38		BS1806-222	1.484	0.015	
40.87	0.38		BS1806-223	1.609	0.015	
44.04	0.38		BS1806-224	1.734	0.015	
47.22	0.46		BS1806-225	1.859	0.018	
50.39	0.46		BS1806-226	1.984	0.018	
53.57	0.46		BS1806-227	2.109	0.018	
56.74	0.51		BS1806-228	2.234	0.020	
59.92	0.51		BS1806-229	2.359	0.020	
63.09	0.51		BS1806-230	2.484	0.020	
66.27	0.51		BS1806-231	2.609	0.020	
69.44	0.61		BS1806-232	2.734	0.024	
72.62	0.61		BS1806-233	2.859	0.024	
75.79	0.61		BS1806-234	2.984	0.024	
78.97	0.61		BS1806-235	3.109	0.024	
82.14	0.61		BS1806-236	3.234	0.024	
85.32	0.61		BS1806-237	3.359	0.024	
88.49	0.61		BS1806-238	3.484	0.024	
91.67	0.71		BS1806-239	3.609	0.028	
94.84	0.71		BS1806-240	3.734	0.028	
98.02	0.71		BS1806-241	3.859	0.028	
101.19	0.71		BS1806-242	3.984	0.028	
104.37	0.71		BS1806-243	4.109	0.028	
107.54	0.76		BS1806-244	4.234	0.030	
110.72	0.76		BS1806-245	4.359	0.030	
113.89	0.76		BS1806-246	4.484	0.030	
117.07	0.76		BS1806-247	4.609	0.030	
120.24	0.76		BS1806-248	4.734	0.030	
123.42	0.89		BS1806-249	4.859	0.035	
126.59	0.89		BS1806-250	4.984	0.035	

BS1806 British Standard O-ring sizes (imperial)

International O-ring Standard Sizes

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Internal Diameter (mm)	Internal Diameter Tolerance +/-	Cross Section (mm)		Internal Diameter (inches)	Internal Diameter Tolerance +/-	Cross Section (inches)
129.77	0.89	3.53 +/- 0.10	BS1806-251	5.109	0.035	0.139 +/- 0.004
132.94	0.89		BS1806-252	5.234	0.035	
136.12	0.89		BS1806-253	5.359	0.035	
139.29	0.89		BS1806-254	5.484	0.035	
142.47	0.89		BS1806-255	5.609	0.035	
145.64	0.89		BS1806-256	5.734	0.035	
148.82	0.89		BS1806-257	5.859	0.035	
151.99	0.89		BS1806-258	5.984	0.035	
158.34	1.02		BS1806-259	6.234	0.040	
164.69	1.02		BS1806-260	6.484	0.040	
171.04	1.02		BS1806-261	6.734	0.040	
177.39	1.02		BS1806-262	6.984	0.040	
183.74	1.14		BS1806-263	7.234	0.045	
190.09	1.14		BS1806-264	7.484	0.045	
196.44	1.14		BS1806-265	7.734	0.045	
202.79	1.14		BS1806-266	7.984	0.045	
209.14	1.27		BS1806-267	8.234	0.050	
215.49	1.27		BS1806-268	8.484	0.050	
221.84	1.27		BS1806-269	8.734	0.050	
228.19	1.27		BS1806-270	8.984	0.050	
234.54	1.40		BS1806-271	9.234	0.055	
240.89	1.40		BS1806-272	9.484	0.055	
247.24	1.40		BS1806-273	9.734	0.055	
253.59	1.40		BS1806-274	9.984	0.055	
266.29	1.40		BS1806-275	10.484	0.055	
278.99	1.65		BS1806-276	10.984	0.065	
291.69	1.65		BS1806-277	11.484	0.065	
304.39	1.65		BS1806-278	11.984	0.065	
329.79	1.65		BS1806-279	12.984	0.065	
355.19	1.65		BS1806-280	13.984	0.065	
380.57	1.65		BS1806-281	14.983	0.065	
405.26	1.91		BS1806-282	15.955	0.075	
430.66	2.03		BS1806-283	16.955	0.080	
456.06	2.16		BS1806-284	17.955	0.085	
10.46	0.13	5.33 +/- 0.13	BS1806-309	0.412	0.005	0.210 +/- 0.005
12.07	0.13		BS1806-310	0.475	0.005	
13.64	0.18		BS1806-311	0.537	0.007	
15.24	0.23		BS1806-312	0.600	0.009	
16.81	0.23		BS1806-313	0.662	0.009	
18.42	0.25		BS1806-314	0.725	0.010	
19.99	0.25		BS1806-315	0.787	0.010	
21.59	0.25		BS1806-316	0.850	0.010	
23.16	0.25		BS1806-317	0.912	0.010	
24.77	0.25		BS1806-318	0.975	0.010	
26.34	0.25		BS1806-319	1.037	0.010	
27.94	0.30		BS1806-320	1.100	0.012	
29.51	0.30		BS1806-321	1.162	0.012	
31.12	0.30		BS1806-322	1.225	0.012	
32.69	0.30		BS1806-323	1.287	0.012	
34.29	0.30		BS1806-324	1.350	0.012	
37.47	0.38		BS1806-325	1.475	0.015	
40.64	0.38		BS1806-326	1.600	0.015	
43.82	0.38		BS1806-327	1.725	0.015	
46.99	0.38		BS1806-328	1.850	0.015	
50.17	0.46		BS1806-329	1.975	0.018	
53.34	0.46		BS1806-330	2.100	0.018	
56.52	0.46		BS1806-331	2.225	0.018	
59.69	0.46		BS1806-332	2.350	0.018	
62.87	0.51		BS1806-333	2.475	0.020	
66.04	0.51		BS1806-334	2.600	0.020	

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Internal Diameter (mm)	Internal Diameter Tolerance +/-	Cross Section (mm)		Internal Diameter (inches)	Internal Diameter Tolerance +/-	Cross Section (inches)
69.22	0.51	5.33 +/- 0.13	BS1806-335	2.725	0.020	0.210 +/- 0.005
72.39	0.51		BS1806-336	2.850	0.020	
75.57	0.61		BS1806-337	2.975	0.024	
78.74	0.61		BS1806-338	3.100	0.024	
81.92	0.61		BS1806-339	3.225	0.024	
85.09	0.61		BS1806-340	3.350	0.024	
88.27	0.61		BS1806-341	3.475	0.024	
91.44	0.71		BS1806-342	3.600	0.028	
94.62	0.71		BS1806-343	3.725	0.028	
97.79	0.71		BS1806-344	3.850	0.028	
100.97	0.71		BS1806-345	3.975	0.028	
104.14	0.71		BS1806-346	4.100	0.028	
107.32	0.76		BS1806-347	4.225	0.030	
110.49	0.76		BS1806-348	4.350	0.030	
113.67	0.76		BS1806-349	4.475	0.030	
116.84	0.76		BS1806-350	4.600	0.030	
120.02	0.76		BS1806-351	4.725	0.030	
123.19	0.76		BS1806-352	4.850	0.030	
126.37	0.94		BS1806-353	4.975	0.037	
129.54	0.94		BS1806-354	5.100	0.037	
132.72	0.94		BS1806-355	5.225	0.037	
135.89	0.94		BS1806-356	5.350	0.037	
139.07	0.94		BS1806-357	5.475	0.037	
142.24	0.94		BS1806-358	5.600	0.037	
145.42	0.94		BS1806-359	5.725	0.037	
148.59	0.94		BS1806-360	5.850	0.037	
151.77	0.94		BS1806-361	5.975	0.037	
158.12	1.02		BS1806-362	6.225	0.040	
164.47	1.02		BS1806-363	6.475	0.040	
170.82	1.02		BS1806-364	6.725	0.040	
177.17	1.02		BS1806-365	6.975	0.040	
183.52	1.14		BS1806-366	7.225	0.045	
189.87	1.14		BS1806-367	7.475	0.045	
196.22	1.14		BS1806-368	7.725	0.045	
202.57	1.14		BS1806-369	7.975	0.045	
208.92	1.27		BS1806-370	8.225	0.050	
215.27	1.27		BS1806-371	8.475	0.050	
221.62	1.27		BS1806-372	8.725	0.050	
227.97	1.27		BS1806-373	8.975	0.050	
234.32	1.40		BS1806-374	9.225	0.055	
240.67	1.40		BS1806-375	9.475	0.055	
247.02	1.40		BS1806-376	9.725	0.055	
253.37	1.40		BS1806-377	9.975	0.055	
266.07	1.52		BS1806-378	10.475	0.060	
278.77	1.52		BS1806-379	10.975	0.060	
291.47	1.65		BS1806-380	11.475	0.065	
304.17	1.65		BS1806-381	11.975	0.065	
329.57	1.65		BS1806-382	12.975	0.065	
354.97	1.78		BS1806-383	13.975	0.070	
380.37	1.78		BS1806-384	14.975	0.070	
405.26	1.91		BS1806-385	15.955	0.075	
430.66	2.03		BS1806-386	16.955	0.080	
456.06	2.16		BS1806-387	17.955	0.085	
481.46	2.29		BS1806-388	18.955	0.090	
506.86	2.41		BS1806-389	19.955	0.095	
532.26	2.41		BS1806-390	20.955	0.095	
557.66	2.54		BS1806-391	21.955	0.100	
582.68	2.67		BS1806-392	22.940	0.105	
608.08	2.79		BS1806-393	23.940	0.110	
633.48	2.92		BS1806-394	24.940	0.115	

BS1806 British Standard O-ring sizes (imperial)

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