

Projected Areas and Lengths of Rubbing Surface for O-Rings

O-Ring Size Parker No. 2-	Piston Groove		Rod Groove		O-Ring Size Parker No. 2-	Piston Groove		Rod Groove	
	A <sub>p</sub> Sq. In.	L <sub>p</sub> In.	A <sub>r</sub> Sq. In.	L <sub>r</sub> In.		A <sub>p</sub> Sq. In.	L <sub>p</sub> In.	A <sub>r</sub> Sq. In.	L <sub>r</sub> In.
006	.03	.79	.03	.39	215	.46	4.13	.46	3.33
007	.04	.89	.04	.49	216	.48	4.33	.48	3.53
008	.05	.98	.04	.58	217	.51	4.52	.50	3.72
009	.05	1.08	.05	.68	218	.53	4.72	.53	3.92
010	.06	1.18	.05	.78	219	.56	4.91	.55	4.12
011	.07	1.38	.07	.98	220	.58	5.11	.58	4.31
012	.08	1.57	.08	1.17	221	.61	5.31	.60	4.51
013	.09	1.77	.09	1.37	222	.63	5.50	.63	4.71
014	.10	1.97	.10	1.57	325	1.00	5.90	.99	4.71
015	.11	2.16	.11	1.76	326	1.07	6.29	1.07	5.10
016	.12	2.36	.12	1.96	327	1.14	6.68	1.14	5.49
017	.14	2.56	.13	2.16	328	1.22	7.07	1.21	5.88
018	.15	2.75	.14	2.35	329	1.29	7.47	1.29	6.28
019	.16	2.95	.16	2.55	330	1.36	7.86	1.36	6.67
020	.17	3.14	.17	2.75	331	1.44	8.25	1.43	7.06
021	.18	3.34	.18	2.94	332	1.51	8.65	1.51	7.45
022	.19	3.54	.19	3.14	333	1.58	9.04	1.58	7.85
023	.20	3.73	.20	3.33	334	1.66	9.43	1.65	8.24
024	.21	3.93	.21	3.53	335	1.73	9.82	1.73	8.63
025	.22	4.13	.22	3.73	336	1.81	10.22	1.80	9.03
026	.24	4.32	.23	3.92	337	1.88	10.61	1.87	9.42
027	.25	4.52	.24	4.12	338	1.95	11.00	1.95	9.81
028	.26	4.72	.26	4.32	339	2.03	11.40	2.02	10.20
110	.13	1.77	.13	1.17	340	2.10	11.79	2.10	10.59
111	.15	1.97	.15	1.37	341	2.17	12.18	2.17	10.99
112	.17	2.16	.17	1.57	342	2.25	12.58	2.24	11.38
113	.19	2.36	.18	1.76	343	2.32	12.97	2.31	11.77
114	.20	2.56	.20	1.96	344	2.39	13.36	2.39	12.16
115	.22	2.75	.22	2.16	345	2.47	13.75	2.46	12.56
116	.24	2.95	.24	2.35	346	2.54	14.15	2.54	12.95
117	.26	3.14	.25	2.55	347	2.62	14.54	2.61	13.34
118	.28	3.34	.27	2.75	348	2.69	14.93	2.68	13.73
119	.29	3.54	.29	2.94	349	2.76	15.32	2.76	14.13
120	.31	3.73	.31	3.14	425	3.59	15.72	3.57	14.13
121	.33	3.93	.32	3.33	426	3.69	16.11	3.66	14.52
122	.35	4.13	.34	3.53	427	3.78	16.51	3.76	14.91
123	.36	4.32	.36	3.73	428	3.87	16.90	3.85	15.31
124	.38	4.52	.38	3.92	429	3.97	17.29	3.95	15.70
125	.40	4.72	.40	4.12	430	4.06	17.68	4.04	16.09
126	.42	4.91	.41	4.32	431	4.16	18.08	4.14	16.48
127	.43	5.11	.43	4.51	432	4.25	18.47	4.23	16.88
128	.45	5.30	.45	4.71	433	4.35	18.86	4.32	17.27
129	.47	5.50	.47	4.90	434	4.44	19.25	4.42	17.66
130	.49	5.70	.48	5.10	435	4.53	19.65	4.51	18.05
131	.50	5.89	.50	5.30	436	4.63	20.04	4.61	18.45
132	.52	6.09	.52	5.49	437	4.72	20.43	4.70	18.84
133	.54	6.29	.54	5.69	438	4.91	21.22	4.89	19.63
134	.56	6.48	.55	5.89	439	5.10	22.00	5.08	20.41
135	.58	6.68	.57	6.08	440	5.29	22.79	5.27	21.20
136	.59	6.88	.59	6.28	441	5.48	23.57	5.46	21.98
137	.61	7.07	.61	6.47	442	5.67	24.36	5.64	22.77
138	.63	7.27	.63	6.67	443	5.85	25.15	5.83	23.55
139	.65	7.46	.64	6.87	444	6.04	25.93	6.02	24.34
140	.66	7.66	.66	7.07	445	6.23	26.72	6.21	25.12
141	.68	7.86	.68	7.26	446	6.61	28.29	6.59	26.69
142	.70	8.05	.70	7.46	447	6.98	29.86	6.96	28.26
143	.72	8.25	.71	7.65	448	7.36	31.43	7.34	29.84
144	.73	8.45	.73	7.85	449	7.74	33.00	7.72	31.41
145	.75	8.64	.75	8.05	450	8.12	34.57	8.09	32.98
146	.77	8.84	.77	8.24	451	8.49	36.14	8.47	34.55
147	.79	9.04	.78	8.44	452	8.87	37.71	8.85	36.12
148	.80	9.23	.80	8.64	453	9.25	39.28	9.22	37.69
149	.82	9.43	.82	8.83	454	9.62	40.85	9.60	39.26
210	.34	3.15	.34	2.35	455	10.00	42.42	9.98	40.83
211	.36	3.34	.36	2.54	456	10.38	43.99	10.36	42.40
212	.39	3.54	.38	2.74	457	10.75	45.57	10.73	43.97
213	.41	3.74	.41	2.94	458	11.13	47.14	11.11	45.54
214	.44	3.93	.43	3.14	459	11.51	48.71	11.49	47.11
					460	11.89	50.28	11.86	48.69

Table 5-4: Projected Areas and Lengths of Rubbing Surface for O-rings

