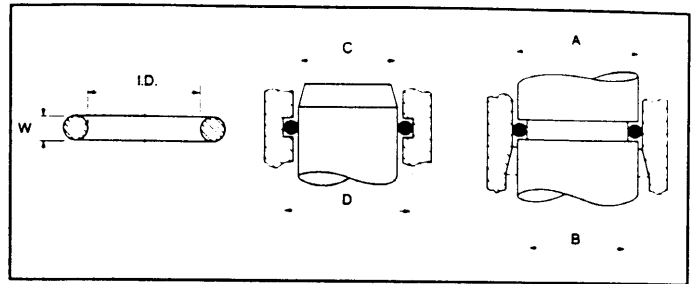


'O' Ring Size Chart and Design Data

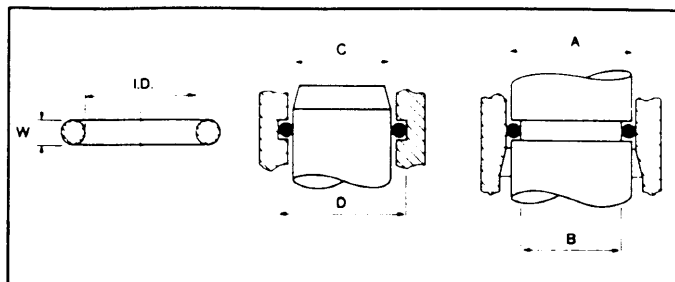
Imperial Range - BS1806



PART No.	NOMINAL SIZE C x A x W	INSIDE DIAMETER				CROSS SECTION				BORE A	PISTON GROOVE DIA B		GLAND GROOVE DIA D		ROD DIA C						
						W															
		INCH	±	mm	±	INCH	±	mm	±		INCH	STAT	DYN	STAT		DYN					
001	1/32 x 3/32 x 1/32	.029		0.74		.040		1.02		.094	.036		.089		.031						
002	3/64 x 9/64 x 3/64	.042	.004	1.07	0.1	.050		1.27		.125	.053		.119		.047						
003	1/16 x 3/16 x 1/16	.056		1.42		.060		1.52		.156	.068		.150		.062						
606	5/64 x 13/64 x 1/16	.070		1.78		.040		1.02		.188	.084		.182		.078						
004		.070		1.78		.070		1.78													
607		.100		2.54		.040		1.02													
005	3/32 x 7/32 x 1/16	.101	.005	2.57	0.13					.219	.117	.107	.211	.221	.109						
006	1/8 x 1/4 x 1/16	.114		2.90						.250	.148	.138	.227	.237	.125						
801		.125		3.17																	
007	5/32 x 9/32 x 1/16	.145	.005	3.68	0.13					.281	.179	.169	.258	.268	.156						
008	3/16 x 5/16 x 1/16	.176		4.47						.312	.210	.200	.289	.299	.187						
802		.187		4.76																	
009	7/32 x 11/32 x 1/16	.208		5.28						.344	.241	.231	.321	.331	.219						
010	1/4 x 3/8 x 1/16	.239		6.07						.375	.273	.263	.352	.362	.250						
803		.250		6.35																	
610	5/16 x 7/16 x 1/16	.266		6.75						.437	.335	.325	.414	.424	.312						
011		.301		7.65																	
804		.312		7.94																	
611	11/32 x 15/32 x 1/16	.344		8.73						.500	.398	.388	.477	.487	.375						
012	3/8 x 1/2 x 1/16	.364		9.25												.562	.462	.537	.437		
013	7/16 x 9/16 x 1/16	.426		10.82																	
806	1/2 x 5/8 x 1/16	.437	.005	11.11	0.13	.070	.003	1.78	0.08	.625	.525		.600		.500						
014		.489	.005	12.42	0.13											.687	.587	.662	.562		
015		.551	.007	14.00	0.18																
016	5/8 x 3/4 x 1/16	.614	.009	15.60	0.23					.750	.650		.725		.625						
017	11/16 x 13/16 x 1/16	.676		17.17												.812	.712	.787	.687		
018	3/4 x 7/8 x 1/16	.739		18.77												.875	.775	.850	.750		
019	13/16 x 15/16 x 1/16	.801		20.35						.937	.837		.912		.812						
020	7/8 x 1 x 1/16	.864		21.95												1.000	.900	.975	.875		
021	15/16 x 1 1/16 x 1/16	.926		23.52												1.062	.962	1.037	.937		
022	1 x 1 1/8 x 1/16	.989	.010	25.12	0.25	.070	.003	1.78	0.08	1.125	1.025		1.100		1.000						
023	1 1/16 x 1 3/16 x 1/16	1.051	.010	26.70	0.25					1.188	1.088		1.162		1.062						
024	1 1/8 x 1 1/4 x 1/16	1.114	.010	28.30	0.25					1.250	1.150		1.225		1.125						
025	1 3/16 x 1 5/16 x 1/16	1.176	.011	29.87	0.28					1.312	1.212		1.288		1.188						
026	1 1/4 x 1 3/8 x 1/16	1.239	.011	31.47	0.28					1.375	1.275		1.350		1.250						
027	1 5/16 x 1 7/16 x 1/16	1.301	.011	33.05	0.28					1.437	1.337		1.412		1.312						
028	1 3/8 x 1 1/2 x 1/16	1.364	.013	34.65	0.33					1.500	1.400		1.475		1.375						
517	1 7/16 x 1 9/16 x 1/16	1.428	.015	36.27	0.38																
029	1 1/2 x 1 5/8 x 1/16	1.489	.010	37.82	0.33					1.625	1.525		1.600		1.500						
519	1 9/16 x 1 11/16 x 1/16	1.553	.015	39.45	0.38					1.750	1.650		1.725		1.625						
030	1 5/8 x 1 3/4 x 1/16	1.614	.013	41.00	0.33											1.875	1.775		1.850		1.750
031	1 3/4 x 1 7/8 x 1/16	1.739	.015	44.17	0.38																
032	1 7/8 x 2 x 1/16	1.864	.015	47.35	0.38					2.000	1.900		1.975		1.875						
033	2 x 2 1/8 x 1/16	1.989	.018	50.52	0.46					2.125	2.025		2.100		2.000						
034	2 1/8 x 2 1/4 x 1/16	2.114	.018	53.70	0.46					2.250	2.150		2.225		2.125						
035	2 1/4 x 2 3/8 x 1/16	2.239	.018	56.87	0.46					2.375	2.275		2.350		2.250						
036	2 3/8 x 2 1/2 x 1/16	2.364	.018	60.05	0.46					2.500	2.400		2.475		2.375						
037	2 1/2 x 2 5/8 x 1/16	2.489	.018	63.22	0.46					2.625	2.525		2.600		2.500						
038	2 5/8 x 2 3/4 x 1/16	2.614	.020	66.40	0.51					2.750	2.650		2.725		2.625						
039	2 3/4 x 2 7/8 x 1/16	2.739	.020	69.57	0.51					2.875	2.775		2.850		2.750						
040	2 7/8 x 3 x 1/16	2.864	.020	72.75	0.51					3.000	2.900		2.975		2.875						
041	3 x 3 1/8 x 1/16	2.989	.024	75.92	0.61					3.125	3.025		3.100		3.000						
532	3 1/8 x 3 3/4 x 1/16	3.110	.020	79.00	0.51																
042	3 1/4 x 3 3/8 x 1/16	3.239	.024	82.27	0.61					3.375	3.275		3.350		3.250						

'O' Ring Size Chart and Design Data

Imperial Range - BS1806



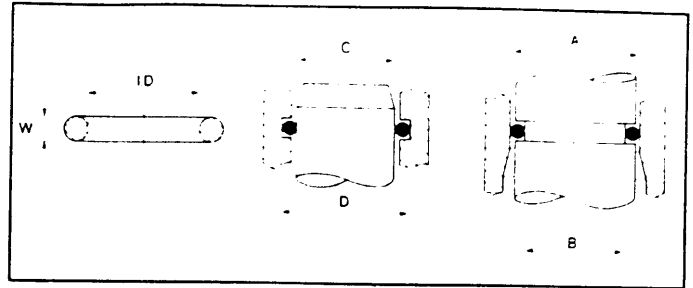
PART No.	NOMINAL SIZE C x A x W	INSIDE DIAMETER				CROSS SECTION W				BORE A INCH	PISTON GROOVE DIA B		GLAND GROOVE DIA D		ROD DIA C
		INCH	±	mm	±	INCH	±	mm	±		STAT	DYN	STAT	DYN	
534	3 3/8 x 3 1/2 x 1/16	3.360	.020	85.34	0.51	.070	.003	1.78	0.08	3.625	3.525		3.600		3.500
043	3 1/2 x 3 3/8 x 1/16	3.489	.024	88.62	0.61										
536	3 3/8 x 3 3/4 x 1/16	3.610	.020	91.70	0.51										
044	3 3/4 x 3 3/8 x 1/16	3.739	.027	94.97	0.69					3.875	3.775		3.850		3.750
538	3 3/8 x 4 x 1/16	3.860	.020	98.05	0.51										
045	4 x 4 1/8 x 1/16	3.989	.027	101.32	0.69					4.125	4.025		4.100		
540	4 1/8 x 4 1/4 x 1/16	4.110	.020	104.4	0.51										
046	4 1/4 x 4 3/8 x 1/16	4.239	.030	107.67	0.76					4.375	4.275		4.350		4.250
542	4 3/8 x 4 1/2 x 1/16	4.360	.020	110.74	0.51										
047	4 1/2 x 4 3/8 x 1/16	4.489	.030	114.02	0.76					4.625	4.525		4.600		4.500
544	4 3/8 x 4 3/4 x 1/16	4.610	.020	117.10	0.51										
048	4 3/4 x 4 7/8 x 1/16	4.739	.030	120.37	0.76					4.875	4.775		4.850		4.750
546	4 7/8 x 5 x 1/16	4.860	.020	123.44	0.51										
049	5 x 5 1/8 x 1/16	4.989	.037	126.72	0.94					5.125	5.025		5.100		5.000
548	5 1/8 x 5 1/4 x 1/16	5.095	.028	129.4	0.71										
050	5 1/4 x 5 3/8 x 1/16	5.239	.037	133.07	0.94					5.375	5.275		5.350		5.250
550	5 3/8 x 5 1/2 x 1/16	5.345	.028	135.76	0.71										
551	5 1/2 x 5 5/8 x 1/16	5.470	.028	138.94	0.71										
552	5 5/8 x 5 3/4 x 1/16	5.595	.028	142.11	0.71										
553	5 3/4 x 5 7/8 x 1/16	5.720	.028	145.29	0.71										
554	5 7/8 x 6 x 1/16	5.845	.028	148.46	0.71										
555	6 x 6 1/8 x 1/16	5.970	.028	151.64	0.71										
556	6 1/8 x 6 1/4 x 1/16	6.095	.028	154.81	0.71										
557	6 1/4 x 6 3/8 x 1/16	6.220	.028	158.00	0.71										
558	6 3/8 x 6 1/2 x 1/16	6.345	.028	161.16	0.71										
559	6 1/2 x 6 5/8 x 1/16	6.470	.028	164.34	0.71										
560	6 5/8 x 6 3/4 x 1/16	6.595	.028	167.51	0.71										
561	6 3/4 x 6 7/8 x 1/16	6.720	.028	170.69	0.71										
562	6 7/8 x 7 x 1/16	6.845	.028	173.87	0.71										
102	1/16 x 1/4 x 3/32	.049	.005	1.24	0.13					.250	.090	.076	.222	.236	.062
103	3/32 x 9/32 x 3/32	.081	.005	2.06	0.13					.281	.121	.107	.253	.267	.093
104	1/8 x 5/16 x 3/32	.112	.005	2.84	0.13					.313	.153	.139	.285	.299	.125
105	3/32 x 11/32 x 3/32	.143	.005	3.63	0.13					.344	.184	.170	.316	.330	.156
106	3/16 x 3/8 x 3/32	.174	.005	4.42	0.13					.375	.215	.201	.347	.361	.187
107	7/16 x 13/16 x 3/16	.438	.005	11.13	0.13					.500	.312	.281	.500	.512	.250

SECTION 1

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'O' Ring Size Chart and Design Data

Imperial Range - BS1806

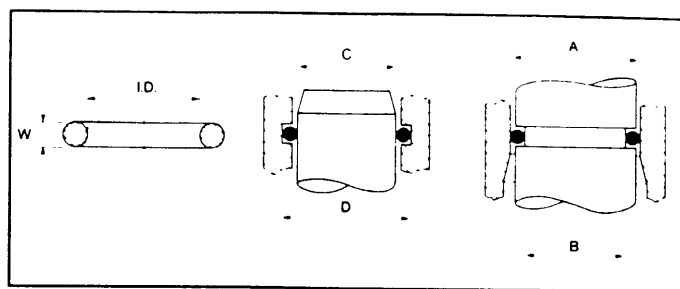


SECTION 1

PART No.	NOMINAL SIZE C x A x W	INSIDE DIAMETER				CROSS SECTION				BORE A	PISTON GROOVE DIA B		GLAND GROOVE DIA D		ROD DIA C
		INCH	±	mm	±	INCH	±	mm	±		STAT	DYN	STAT	DYN	
166	6 3/4 x 6 15/16 x 3/32	6.737	.040	171.12	1.02	.103	.003	2.62	0.08	6.937	6.777		6.910		6.750
167	7 x 7 3/16 x 3/32	6.987	.040	177.47	1.02					7.187	7.027		7.160		7.000
168	7 1/4 x 7 7/16 x 3/32	7.237	.045	183.82	1.14					7.437	7.277		7.410		7.250
169	7 1/2 x 7 11/16 x 3/32	7.487	.045	190.17	1.14					7.687	7.527		7.660		7.500
170	7 3/4 x 7 15/16 x 3/32	7.737	.045	196.52	1.14					7.937	7.777		7.910		7.750
171	8 x 8 3/16 x 3/32	7.987	.045	202.87	1.14					8.187	8.027		8.160		8.000
172	8 1/4 x 8 7/16 x 3/32	8.237	.050	209.22	1.27					8.437	8.277		8.410		8.250
173	8 1/2 x 8 11/16 x 3/32	8.487	.050	215.57	1.27					8.687	8.527		8.660		8.500
174	8 3/4 x 8 15/16 x 3/32	8.737	.050	221.92	1.27					8.937	8.777		8.910		8.750
175	9 x 9 3/16 x 3/32	8.987	.050	228.27	1.27					9.187	9.027		9.160		9.000
176	9 1/4 x 9 7/16 x 3/32	9.237	.055	234.62	1.40	.139	.004	3.53	0.10	9.437	9.277		9.410		9.250
177	9 1/2 x 9 11/16 x 3/32	9.487	.055	240.97	1.40					9.687	9.527		9.660		9.500
178	9 3/4 x 9 15/16 x 3/32	9.737	.055	247.32	1.40					9.937	9.777		9.910		9.750
201	3/16 x 7/16 x 1/8	.171	.005	4.34	0.13					.437	.215	.199	.409	.425	.187
202	1/4 x 1/2 x 1/8	.234	.005	5.94	0.13					.500	.277	.261	.472	.488	.250
203	5/16 x 9/16 x 1/8	.296	.005	7.52	0.13					.562	.340	.324	.514	.530	.312
204	3/8 x 5/8 x 1/8	.359	.005	9.12	0.13					.625	.403	.387	.597	.613	.375
205	7/16 x 11/16 x 1/8	.421	.005	10.69	0.13					.687	.465	.449	.659	.675	.437
206	1/2 x 3/4 x 1/8	.484	.005	12.29	0.13					.750	.527	.511	.722	.738	.500
207	9/16 x 13/16 x 1/8	.546	.007	13.87	0.18					.812	.590	.574	.814	.830	.562
208	5/8 x 7/8 x 1/8	.609	.009	15.47	0.23					.875	.653	.637	.847	.863	.625
209	11/16 x 15/16 x 1/8	.671	.009	17.04	0.23					.937	.715	.699	.909	.925	.687
210	3/4 x 1 x 1/8	.734	.010	18.66	0.25					1.000	.778	.762	.972	.988	.750
211	13/16 x 1 1/16 x 1/8	.796	.010	20.22	0.25					1.062	.840	.824	1.034	1.050	.812
212	7/8 x 1 1/8 x 1/8	.859	.010	21.82	0.25					1.125	.903	.887	1.097	1.113	.875
213	15/16 x 1 3/16 x 1/8	.921	.010	23.40	0.25					1.188	.966	.950	1.159	1.175	.937
214	1 x 1 1/4 x 1/8	.984	.010	25.00	0.25					1.250	1.028	1.012	1.222	1.238	1.000
618		1.016	.006	25.80	0.15										
215	1 1/16 x 1 5/16 x 1/8	1.046	.010	26.58	0.25					1.312	1.090	1.074	1.284	1.300	1.062
216	1 1/8 x 1 3/8 x 1/8	1.109	.012	28.17	0.30					1.375	1.153	1.137	1.347	1.363	1.125
217	1 3/16 x 1 7/16 x 1/8	1.171	.012	29.75	0.30					1.437	1.215	1.199	1.410	1.426	1.188
218	1 1/4 x 1 1/2 x 1/8	1.234	.012	31.35	0.30					1.500	1.278	1.262	1.472	1.488	1.250
219	1 5/16 x 1 9/16 x 1/8	1.296	.012	32.92	0.30					1.562	1.340	1.324	1.534	1.550	1.312
220	1 3/8 x 1 5/8 x 1/8	1.359	.012	34.52	0.30					1.625	1.403	1.387	1.597	1.613	1.375
221	1 7/16 x 1 11/16 x 1/8	1.421	.012	36.09	0.30					1.688	1.466	1.450	1.659	1.675	1.437
222	1 1/2 x 1 3/4 x 1/8	1.484	.015	37.70	0.38					1.750	1.528	1.512	1.722	1.738	1.500
824	1 9/16 x 1 13/16 x 1/8	1.563	.010	39.7	0.25										
223	1 5/8 x 1 7/8 x 1/8	1.609	.015	40.87	0.38					1.875	1.653		1.847		1.625
825		1.625	.010	41.28	0.25										
826	1 11/16 x 1 15/16 x 1/8	1.687	.010	42.86	0.25										
224	1 3/4 x 2 x 1/8	1.734	.015	44.04	0.38					2.000	1.778		1.972		1.750
827		1.750	.010	44.45	0.25										
828	1 13/16 x 2 1/16 x 1/8	1.812	.010	46.04	0.25										
225	1 7/8 x 2 1/8 x 1/8	1.859	.018	47.22	0.46					2.125	1.903		2.097		1.875
829		1.875	.010	47.62	0.25										
830	1 15/16 x 2 3/16 x 1/8	1.937	.010	49.20	0.25										
226	2 x 2 1/4 x 1/8	1.984	.018	50.39	0.46					2.250	2.028		2.222		2.000
831		2.000	.010	50.80	0.25										
832	2 1/16 x 2 5/16 x 1/8	2.062	.010	52.40	0.25										
227	2 1/8 x 2 3/8 x 1/8	2.109	.018	53.37	0.46					2.375	2.153		2.347		2.125
833		2.125	.010	53.97	0.25										
834	2 3/16 x 2 7/16 x 1/8	2.187	.010	55.56	0.25										

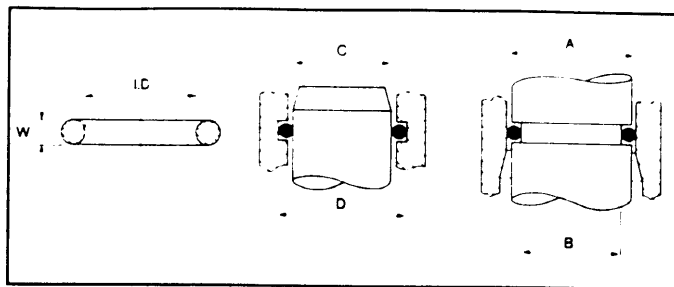
CTION 1

PAGE	ACCOUNT	DATE	DESCRIPTION	AMOUNT	DEBIT	CREDIT	BALANCE
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'O' Ring Size Chart and Design Data

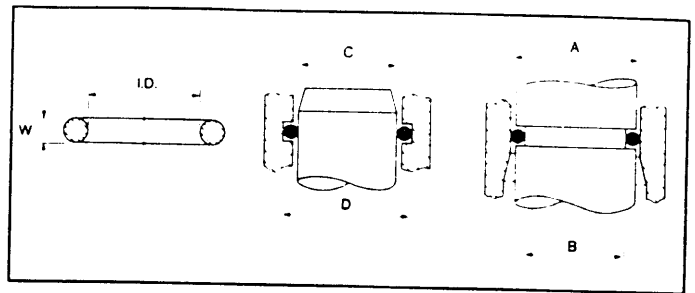
Imperial Range - BS1806



PART No.	NOMINAL SIZE C x A x W	INSIDE DIAMETER				CROSS SECTION W				BORE A INCH	PISTON GROOVE DIA B		GLAND GROOVE DIA D		ROD DIA C
		INCH	±	mm	±	INCH	±	mm	±		STAT	DYN	STAT	DYN	
270	9 x 9 1/4 x 1/8	8.984	.050	228.19	1.27	.139	.004	3.53	0.10	9.250	9.028		9.222		9.000
271	9 1/4 x 9 1/2 x 1/8	9.234	.055	234.54	1.40					9.500	9.278		9.472		9.250
272	9 1/2 x 9 3/4 x 1/8	9.484	.055	240.89	1.40					9.750	9.528		9.722		9.500
273	9 3/4 x 10 x 1/8	9.734	.055	247.24	1.40					10.000	9.778		9.972		9.750
274	10 x 10 1/4 x 1/8	9.984	.055	253.59	1.40					10.250	10.028		10.222		10.000
275	10 1/2 x 10 3/4 x 1/8	10.484	.055	266.29	1.40					10.750	10.528		10.722		10.500
276	11 x 11 1/4 x 1/8	10.984	.065	278.99	1.40					11.250	11.028		11.222		11.000
277	11 1/2 x 11 3/4 x 1/8	11.484	.065	291.69	1.40					11.750	11.528		11.722		11.500
278	12 x 12 1/4 x 1/8	11.984	.065	304.39	1.65					12.250	12.028		12.222		12.000
279	13 x 13 1/4 x 1/8	12.984	.065	329.79	1.65					13.250	13.028		13.222		13.000
280	14 x 14 1/4 x 1/8	13.984	.065	355.19	1.65					14.250	14.028		14.222		14.000
281	15 x 15 1/4 x 1/8	14.984	.065	380.59	1.65					15.250	15.028		15.222		15.000
282	16 x 16 1/4 x 1/8	15.955	.075	405.26	1.90					16.250	16.028		16.222		16.000
283	17 x 17 1/4 x 1/8	16.955	.080	430.66	2.16					17.250	17.028		17.222		17.000
284	18 x 18 1/4 x 1/8	17.955	.085	456.06	2.42					18.250	18.028		18.222		18.000
309	7/16 x 1 1/16 x 3/16	.412	.005	10.46	0.13					.812	.462	.446	.787	.803	.437
310	1/2 x 7/8 x 3/16	.475	.005	12.07	0.13					.875	.525	.509	.850	.866	.500
311	9/16 x 1 5/16 x 3/16	.537	.007	13.64	0.18					.937	.587	.571	.912	.928	.562
312	5/8 x 1 x 3/16	.600	.009	15.24	0.23					1.000	.650	.634	.975	.991	.625
313	1 1/16 x 1 1/16 x 3/16	.662	.009	16.81	0.23					1.062	.712	.696	1.037	1.053	.687
314	3/4 x 1 1/8 x 3/16	.725	.010	18.42	0.25					1.125	.774	.758	1.100	1.116	.750
315	1 3/16 x 1 3/16 x 3/16	.787	.010	19.99	0.25					1.187	.837	.821	1.162	1.178	.812
316	7/8 x 1 1/4 x 3/16	.850	.010	21.59	0.25					1.250	.900	.884	1.225	1.241	.875

'O' Ring Size Chart and Design Data

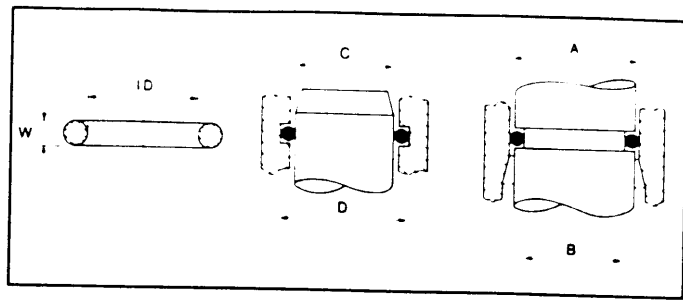
Imperial Range - BS1806



PART No.	NOMINAL SIZE C x A x W	INSIDE DIAMETER				CROSS SECTION W				BORE A	PISTON GROOVE DIA B		GLAND GROOVE DIA D		ROD DIA C
		INCH	±	mm	±	INCH	±	mm	±		STAT	DYN	STAT	DYN	
342	3 ⁵ / ₁₆ x 4 x ³ / ₁₆	3.600	.028	91.44	0.71	.210	.005	5.33	0.13	4.000	3.650	3.634	3.975	3.991	3.625
343	3 ³ / ₄ x 4 ¹ / ₈ x ³ / ₁₆	3.725	.028	94.62	0.71					4.125	3.775	3.759	4.100	4.116	3.750
344	3 ⁷ / ₈ x 4 ¹ / ₄ x ³ / ₁₆	3.850	.028	97.79	0.71					4.250	3.900	3.884	4.225	4.241	3.875
622	3 ¹⁵ / ₁₆ x 4 ⁵ / ₁₆ x ³ / ₁₆	3.937	.015	100.00	0.38					4.375	4.025	4.009	4.350	4.366	4.000
345	4 x 4 ³ / ₈ x ³ / ₁₆	3.975	.028	100.97	0.71						4.150	4.134	4.475	4.491	4.125
346	4 ¹ / ₈ x 4 ¹ / ₂ x ³ / ₁₆	4.100	.028	104.14	0.71					4.500	4.275	4.259	4.600	4.616	4.250
347	4 ¹ / ₄ x 4 ⁵ / ₈ x ³ / ₁₆	4.225	.030	107.32	0.76					4.625	4.400	4.384	4.725	4.741	4.375
623	4 ³ / ₈ x 4 ³ / ₄ x ³ / ₁₆	4.312	.015	109.54	0.38					4.750	4.525	4.509	4.850	4.866	4.500
348	4 ³ / ₈ x 4 ³ / ₄ x ³ / ₁₆	4.350	.030	110.49	0.76						4.650		4.975		4.625
349	4 ¹ / ₂ x 4 ⁷ / ₈ x ³ / ₁₆	4.475	.030	113.67	0.76					5.000	4.775		5.100		4.750
350	4 ⁵ / ₈ x 5 x ³ / ₁₆	4.600	.030	116.84	0.76					5.125	4.900		5.225		4.875
860	4 ⁵ / ₈ x 5 x ³ / ₁₆	4.625	.015	117.48	0.38						5.025		5.350		5.000
351	4 ³ / ₄ x 5 ¹ / ₈ x ³ / ₁₆	4.725	.030	120.02	0.76					5.500	5.150		5.475		5.125
861	4 ⁷ / ₈ x 5 ¹ / ₄ x ³ / ₁₆	4.750	.015	120.65	0.38					5.625	5.275		5.600		5.250
352	4 ⁷ / ₈ x 5 ¹ / ₄ x ³ / ₁₆	4.850	.030	123.19	0.76					5.750	5.400		5.725		5.375
862	5 x 5 ³ / ₈ x ³ / ₁₆	4.875	.015	123.83	0.38					6.000	5.525		5.850		5.500
353	5 x 5 ³ / ₈ x ³ / ₁₆	4.975	.037	126.37	0.94					6.125	5.775		6.100		5.750
863	5 x 5 ³ / ₈ x ³ / ₁₆	5.000	.023	127.00	0.58					6.250	5.900		6.225		5.875
354	5 ¹ / ₈ x 5 ¹ / ₂ x ³ / ₁₆	5.100	.037	129.54	0.95					6.375	6.025		6.350		6.000
864	5 ¹ / ₂ x 5 ⁵ / ₈ x ³ / ₁₆	5.125	.023	130.18	0.58					6.625	6.275		6.600		6.250
355	5 ¹ / ₄ x 5 ⁵ / ₈ x ³ / ₁₆	5.225	.037	132.72	0.94					6.875	6.525		6.850		6.500
865	5 ³ / ₈ x 5 ³ / ₄ x ³ / ₁₆	5.250	.023	133.35	0.58					7.125	6.775		7.100		6.750
356	5 ³ / ₈ x 5 ³ / ₄ x ³ / ₁₆	5.350	.037	135.89	0.94					7.375	7.025		7.350		7.000
866	5 ³ / ₈ x 5 ³ / ₄ x ³ / ₁₆	5.375	.023	136.53	0.58					7.625	7.275		7.600		7.250
357	5 ¹ / ₂ x 5 ⁷ / ₈ x ³ / ₁₆	5.475	.037	139.07	0.94					7.875	7.525		7.850		7.500
867	5 ⁵ / ₈ x 6 x ³ / ₁₆	5.500	.023	139.70	0.58					8.125	7.775		8.100		7.750
358	5 ⁵ / ₈ x 6 x ³ / ₁₆	5.600	.037	142.24	0.94					8.375	8.025		8.350		8.000
868	5 ³ / ₄ x 6 ¹ / ₈ x ³ / ₁₆	5.625	.023	142.88	0.58					8.625	8.275		8.600		8.250
359	5 ³ / ₄ x 6 ¹ / ₈ x ³ / ₁₆	5.725	.037	145.42	0.94					8.875	8.525		8.850		8.500
869	5 ³ / ₄ x 6 ¹ / ₈ x ³ / ₁₆	5.750	.023	146.05	0.58					9.125	8.775		9.100		8.750
360	5 ⁷ / ₈ x 6 ¹ / ₄ x ³ / ₁₆	5.850	.037	148.49	0.94					9.375	9.025		9.350		9.000
870	6 x 6 ³ / ₈ x ³ / ₁₆	5.875	.023	149.23	0.58					9.625	9.275		9.600		9.250
361	6 x 6 ³ / ₈ x ³ / ₁₆	5.975	.037	151.77	0.94					9.875	9.525		9.850		9.500
644	6 ¹ / ₈ x 6 ¹ / ₂ x ³ / ₁₆	6.100	.023	155.00	0.58					10.125	9.775		10.100		9.750
362	6 ¹ / ₄ x 6 ⁵ / ₈ x ³ / ₁₆	6.225	.040	158.12	1.02					10.375	10.025		10.350		10.000
645	6 ³ / ₈ x 6 ³ / ₄ x ³ / ₁₆	6.350	.023	161.30	0.58					10.875	10.525		10.850		10.500
363	6 ¹ / ₂ x 6 ⁷ / ₈ x ³ / ₁₆	6.475	.040	164.47	1.02					10.875	10.525		10.850		10.500
646	6 ⁵ / ₈ x 7 x ³ / ₁₆	6.600	.023	167.70	0.58										
364	6 ³ / ₄ x 7 ¹ / ₈ x ³ / ₁₆	6.725	.040	170.82	1.02										
647	6 ⁷ / ₈ x 7 ¹ / ₄ x ³ / ₁₆	6.850	.023	174.00	0.58										
365	7 x 7 ³ / ₈ x ³ / ₁₆	6.975	.040	177.17	1.02					10.875	10.525		10.850		10.500
366	7 ¹ / ₄ x 7 ⁵ / ₈ x ³ / ₁₆	7.225	.045	183.52	1.14										
367	7 ¹ / ₂ x 7 ⁷ / ₈ x ³ / ₁₆	7.475	.045	189.87	1.14										
368	7 ³ / ₄ x 8 ¹ / ₈ x ³ / ₁₆	7.725	.045	196.22	1.14										
369	8 x 8 ³ / ₈ x ³ / ₁₆	7.975	.045	202.57	1.14										
370	8 ¹ / ₄ x 8 ⁵ / ₈ x ³ / ₁₆	8.225	.050	206.92	1.30										
371	8 ¹ / ₂ x 8 ⁷ / ₈ x ³ / ₁₆	8.475	.050	215.27	1.30										
372	8 ³ / ₄ x 9 ¹ / ₈ x ³ / ₁₆	8.725	.050	221.62	1.30										
373	9 x 9 ³ / ₈ x ³ / ₁₆	8.975	.050	227.97	1.30										
374	9 ¹ / ₄ x 9 ⁵ / ₈ x ³ / ₁₆	9.225	.055	234.32	1.40										
375	9 ¹ / ₂ x 9 ⁷ / ₈ x ³ / ₁₆	9.475	.055	240.67	1.40										
376	9 ³ / ₄ x 10 ¹ / ₈ x ³ / ₁₆	9.725	.055	247.02	1.40										
377	10 x 10 ³ / ₈ x ³ / ₁₆	9.975	.055	253.37	1.40										
378	10 ¹ / ₂ x 10 ⁷ / ₈ x ³ / ₁₆	10.475	.060	266.07	1.52										

'O' Ring Size Chart and Design Data

Imperial Range - BS1806

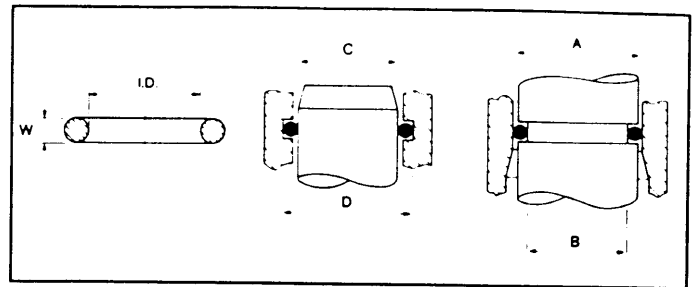


PART	NOMINAL	INSIDE DIAMETER	CROSS SECTION	ROD	PIPE	
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SECTION 1

'O' Ring Size Chart and Design Data

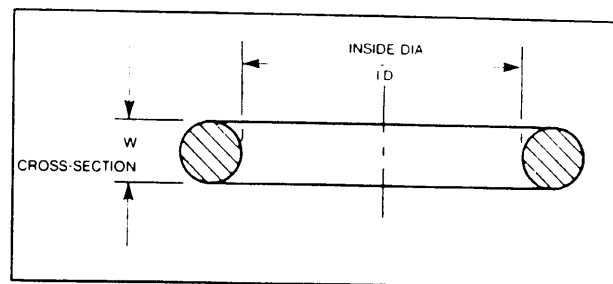
Imperial Range - BS1806



PART No.	NOMINAL SIZE C x A x W	INSIDE DIAMETER				CROSS SECTION W				BORE A INCH	PISTON GROOVE DIA B		GLAND GROOVE DIA D		ROD DIA C				
		INCH	±	mm	±	INCH	±	mm	±		STAT	DYN	STAT	DYN					
676	8¾ x 9¼ x ¼	8.725	.030	221.62	0.76	.275	.006	6.99	0.15	9.500	9.044	9.032	9.456	9.468	9.000				
447	9 x 9½ x ¼	8.975	.055	227.97	1.40														
678	9¼ x 9¾ x ¼	9.225	.030	234.32	0.76														
448	9½ x 10 x ¼	9.475	.055	240.67	1.40					10.000	9.544	9.532	9.956	9.968	9.500				
680	9¾ x 10¼ x ¼	9.725	.030	247.00	0.76														
449	10 x 10½ x ¼	9.975	.055	253.37	1.40					10.500	10.044	10.032	10.456	10.468	10.000				
682	10¼ x 10¾ x ¼	10.225	.030	259.70	0.76														
450	10½ x 11 x ¼	10.475	.060	266.07	1.52					11.000	10.544	10.532	10.956	10.968	10.500				
684	10¾ x 11¼ x ¼	10.725	.030	272.40	0.76														
451	11 x 11½ x ¼	10.975	.060	278.77	1.52					11.500	11.044	11.032	11.456	11.468	11.000				
686	11¼ x 11¾ x ¼	11.225	.030	285.10	0.76														
452	11½ x 12 x ¼	11.475	.060	291.47	1.52					12.000	11.544	11.532	11.956	11.968	11.500				
688	11¾ x 12¼ x ¼	11.725	.030	297.80	0.76														
453	12 x 12½ x ¼	11.975	.060	304.17	1.52					12.500	12.044	12.032	12.456	12.468	12.000				
648	12¼ x 12¾ x ¼	12.225	.030	310.50	0.76														
454	12½ x 13 x ¼	12.475	.060	316.87	1.52					13.000	12.544	12.532	12.956	12.968	12.500				
649	12¾ x 13¼ x ¼	12.725	.030	323.20	0.76														
455	13 x 13½ x ¼	12.975	.060	329.57	1.52					13.500	13.044	13.032	13.456	13.468	13.000				
650	13¼ x 13¾ x ¼	13.225	.030	335.90	0.76														
456	13½ x 14 x ¼	13.475	.070	342.27	1.78					14.000	13.544	13.532	13.956	13.968	13.500				
457	14 x 14½ x ¼	13.975	.070	354.97	1.78					14.500	14.044	14.032	14.456	14.468	14.000				
458	14½ x 15 x ¼	14.475	.070	367.67	1.78														
459	15 x 15½ x ¼	14.975	.070	380.37	1.78					15.000	14.544	14.532	14.956	14.968	14.500				
460	15½ x 16 x ¼	15.475	.070	393.07	1.78					15.500	15.044	15.032	15.456	15.468	15.000				
461	16 x 16½ x ¼	15.955	.075	405.26	1.90					16.000	15.544	15.532	15.956	15.968	15.500				
462	16½ x 17 x ¼	16.455	.075	417.96	1.90														
463	17 x 17½ x ¼	16.955	.080	430.66	2.05					16.500	16.044		16.456		16.000				
464	17½ x 18 x ¼	17.455	.085	443.36	2.15					17.000	16.544		16.956		16.500				
465	18 x 18½ x ¼	17.955	.085	456.06	2.15					17.500	17.044		17.456		17.000				
466	18½ x 19 x ¼	18.455	.085	468.76	2.15														
467	19 x 19½ x ¼	18.955	.090	481.46	2.25					18.000	17.544		17.956		17.500				
468	19½ x 20 x ¼	19.455	.090	494.16	2.25					18.500	18.044		18.456		18.000				
469	20 x 20½ x ¼	19.955	.090	506.86	2.25					19.000	18.544		18.956		18.500				
470	21 x 21½ x ¼	20.955	.090	532.26	2.25														
471	22 x 22½ x ¼	21.955	.100	557.66	2.55					19.500	19.044		19.456		19.000				
472	23 x 23½ x ¼	22.940	.105	582.68	2.65					20.000	19.544		19.956		19.500				
473	24 x 24½ x ¼	23.940	.110	608.08	2.80					20.500	20.044		20.456		20.000				
474	25 x 25½ x ¼	24.940	.115	633.48	2.90														
475	26 x 26½ x ¼	25.940	.120	658.88	3.05					21.500	21.044		21.456		21.000				
										22.500	22.044		22.456		22.000				
										23.500	23.044		23.456		23.000				
										24.500	24.044		24.456		24.000				
										25.500	25.044		25.456		25.000				
										26.500	26.044		26.456		26.000				

Standard Metric 'O' Ring range

Sizes to BS 4518



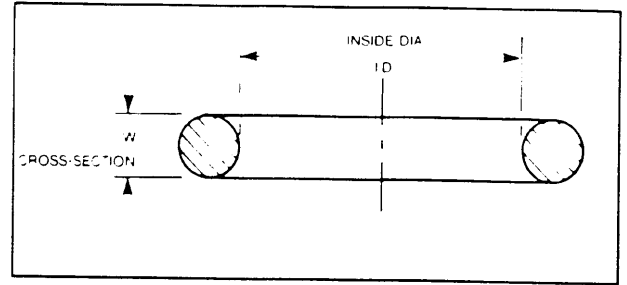
SECTION 3

PART No.	INTERNAL DIA		CROSS SECTION		
	ID	±	W	±	
0031-16	3.1	0.15	1.6	0.08	
0041-16	4.1				
0051-16	5.1				
0061-16	6.1				
0071-16	7.1				
0081-16	8.1				
0091-16	9.1				
0101-16	10.1	0.20			
0111-16	11.1				
0121-16	12.1				
0131-16	13.1				
0141-16	14.1				
0151-16	15.1				
0161-16	16.1				
0171-16	17.1				
0181-16	18.1	0.25			
0191-16	19.1				
0221-16	22.1				
0251-16	25.1				
0271-16	27.1				
0291-16	29.1	0.30			
0321-16	32.1				
0351-16	35.1				
0371-16	37.1	0.15			2.4
0036-24	3.6				
0046-24	4.6				
0056-24	5.6				
0066-24	6.6				
0076-24	7.6				
0086-24	8.6				
0096-24	9.6				
0106-24	10.6		0.20		
0116-24	11.6				
0126-24	12.6				
0136-24	13.6				
0146-24	14.6				
0156-24	15.6				
0166-24	16.6				
0176-24	17.6				

PART No.	INTERNAL DIA		CROSS SECTION	
	ID	±	W	±
0186-24	18.6	0.25	2.4	0.08
0196-24	19.6			
0216-24	21.6			
0246-24	24.6			
0276-24	27.6			
0296-24	29.6			
0316-24	31.6	0.30		
0346-24	34.6			
0376-24	37.6			
0396-24	39.6			
0416-24	41.6			
0446-24	44.6			
0476-24	47.6			
0496-24	49.6			
0516-24	51.6	0.40		
0546-24	54.6			
0576-24	57.6			
0596-24	59.6			
0616-24	61.6			
0646-24	64.6			
0676-24	67.6			
0696-24	69.6			
0195-30	19.5	0.25	3.0	0.1
0215-30	21.5			
0225-30	22.5			
0245-30	24.5			
0255-30	25.5			
0265-30	26.5			
0275-30	27.5			
0295-30	29.5			
0315-30	31.5	0.3		
0325-30	32.5			
0345-30	34.5			
0355-30	35.5			
0365-30	36.5			
0375-30	37.5			
0395-30	39.5			
0415-30	41.5			
0425-30	42.5			

Standard Metric 'O' Ring range

Sizes to BS 4518

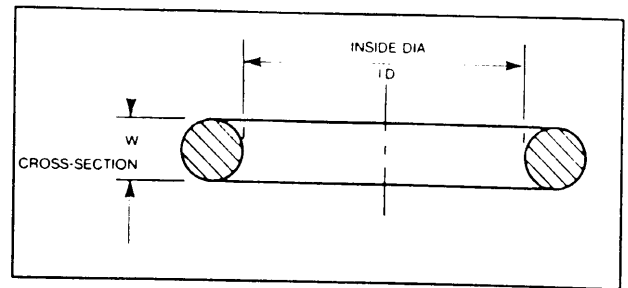


PART No.	INTERNAL DIA		CROSS SECTION			
	ID	±	W	±		
0445-30	44.5	0.4	3.0	0.1		
0495-30	49.5					
0595-30	59.5					
0645-30	64.5					
0695-30	69.5					
0745-30	74.5					
0795-30	79.5					
0845-30	84.5	0.5				
0895-30	89.5					
0945-30	94.5					
0995-30	99.5					
1045-30	104.5					
1095-30	109.5					
1145-30	114.5					
1195-30	119.5					
1245-30	124.5	0.6				
1295-30	129.5					
1345-30	134.5					
1395-30	139.5					
1445-30	144.5					
1495-30	149.5					
1545-30	154.5					
1595-30	159.5					
1645-30	164.5					
1695-30	169.5					
1745-30	174.5					
1795-30	179.5					
1845-30	184.5	0.8				
1895-30	189.5					
1945-30	194.5					
1995-30	199.5					
2095-30	209.5					
2195-30	219.5					
2295-30	229.5					
2395-30	239.5					
2495-30	249.5					
0443-57	44.3	0.3				
0453-57	45.3					
0493-57	49.3					

PART No.	INTERNAL DIA		CROSS SECTION	
	ID	±	W	±
0523-57	52.3	0.4	5.7	0.12
0543-57	54.3			
0593-57	59.3			
0623-57	62.3			
0643-57	64.3			
0693-57	69.3			
0743-57	74.3			
0793-57	79.3	0.5		
0843-57	84.3			
0893-57	89.3			
0943-57	94.3			
0993-57	99.3			
1043-57	104.3			
1093-57	109.3			
1143-57	114.3			
1193-57	119.3	0.6		
1243-57	124.3			
1293-57	129.3			
1343-57	134.3			
1393-57	139.3			
1443-57	144.3			
1493-57	149.3			
1543-57	154.3			
1593-57	159.3			
1643-57	164.3			
1693-57	169.3	0.8		
1743-57	174.3			
1793-57	179.3			
1843-57	184.3			
1893-57	189.3			
1943-57	194.3			
1993-57	199.3			
2093-57	209.3			
2193-57	219.3			
2293-57	229.3			
2493-57	249.3	1.0		
2593-57	259.3			
2693-57	269.3			
2793-57	279.3			

Standard Metric 'O' Ring range

Sizes to BS 4518



SECTION 3

PART No.	INTERNAL DIA		CROSS SECTION			
	ID	±	W	±		
2893-57	289.3	1.0	5.7	0.12		
2993-57	299.3	1.0				
3193-57	319.3	1.5				
3393-57	339.3					
3593-57	359.3					
3793-57	379.3					
3993-57	399.3					
4193-57	419.3	2.0				
4393-57	439.3					
4593-57	459.3					
4793-57	479.3					
4993-57	499.3					
1441-84	144.1	0.6	8.4	0.15		
1491-84	149.1					
1541-84	154.1					
1591-84	159.1					
1641-84	164.1					
1741-84	174.1					
1791-84	179.1	0.8				
1841-84	184.1					
1891-84	189.1					
1941-84	194.1					
1991-84	199.1					
2041-84	204.1					
2091-84	209.1					
2191-84	219.1					
2291-84	229.1					
2341-84	234.1					
2391-84	239.1					
2491-84	249.1					