

O-Ring Imperial Size Guide

METRIC				Dowty Size Reference	Alternative Reference	IMPERIAL							
Internal Diameter (mm)	Internal Diameter Tolerance +/-	Cross Section (mm)	Cross Section Tolerance +/-			Internal Diameter (inches)		Internal Diameter Tolerance +/-	Outer Diameter (inches)		Cross Section (inches)		Cross Section Tolerance +/-
						(Actual)	(Nominal)		(Actual)	(Nominal)	(Actual)	(Nominal)	
0.74	0.10	1.02	0.08	200-001	BS001	0.029	1/32	0.004	0.109	3/32	0.040	1/32	0.003
1.07	0.10	1.27	0.08	200-002	BS002	0.042	3/64	0.004	0.142	9/64	0.050	3/64	0.003
1.42	0.10	1.53	0.08	200-003	BS003	0.056	1/16	0.004	0.176	3/16	0.060	1/16	0.003
1.78	0.13	1.78	0.08	200-004	BS004	0.070	5/64	0.005	0.210	13/64	0.070	1/16	0.003
2.57	0.13			200-005	BS005	0.101	3/32	0.005	0.241	7/32			
2.90	0.13			200-006	BS006	0.114	1/8	0.005	0.254	1/4			
3.69	0.13			200-007	BS007	0.145	5/32	0.005	0.285	9/32			
4.47	0.13			200-008	BS008	0.176	3/16	0.005	0.316	5/16			
5.28	0.13			200-009	BS009	0.208	7/32	0.005	0.348	11/32			
6.07	0.13			200-010	BS010	0.239	1/4	0.005	0.379	3/8			
7.66	0.13			200-011	BS011	0.302	5/16	0.005	0.441	7/16			
9.25	0.13			200-012	BS012	0.364	3/8	0.005	0.504	1/2			
10.82	0.13			200-013	BS013	0.426	7/16	0.005	0.566	9/16			
12.42	0.13			200-014	BS014	0.489	1/2	0.005	0.629	5/8			
14.00	0.18			200-015	BS015	0.551	9/16	0.007	0.691	11/16			
15.60	0.23			200-016	BS016	0.614	5/8	0.009	0.754	3/4			
17.16	0.23			200-017	BS017	0.676	11/16	0.009	0.816	13/16			
18.77	0.23			200-018	BS018	0.739	3/4	0.009	0.879	7/8			
20.35	0.23			200-019	BS019	0.801	13/16	0.009	0.941	15/16			
21.95	0.23			200-020	BS020	0.864	7/8	0.009	1.004	1			
23.52	0.23			200-021	BS021	0.926	15/16	0.009	1.066	1 1/16			
25.12	0.25			200-022	BS022	0.989	1	0.010	1.129	1 1/8			
26.70	0.25			200-023	BS023	1.051	1 1/16	0.010	1.191	1 3/16			
28.30	0.25			200-024	BS024	1.114	1 1/8	0.010	1.254	1 1/4			
29.87	0.28			200-025	BS025	1.176	1 3/16	0.011	1.316	1 5/16			

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				(Actual)	(Nominal)		(Actual)	(Nominal)	(Actual)	(Nominal)		
44.04	0.38			200-224	BS224	1.734	1 3/4	0.015	2.012	2		
47.22	0.46			200-225	BS225	1.859	1 7/8	0.018	2.137	2 1/8		
50.39	0.46			200-226	BS226	1.984	2	0.018	2.262	2 1/4		
53.57	0.46			200-227	BS227	2.109	2 1/8	0.018	2.387	2 3/8		
56.74	0.51			200-228	BS228	2.234	2 1/4	0.020	2.512	2 1/2		
59.92	0.51			200-229	BS229	2.359	2 3/8	0.020	2.637	2 5/8		
63.09	0.51			200-230	BS230	2.484	2 1/2	0.020	2.762	2 3/4		
66.27	0.51			200-231	BS231	2.609	2 5/8	0.020	2.887	2 7/8		
69.44	0.61			200-232	BS232	2.734	2 3/4	0.024	3.012	3		
72.62	0.61			200-233	BS233	2.859	2 7/8	0.024	3.137	3 1/8		
75.79	0.61			200-234	BS234	2.984	3	0.024	3.262	3 1/4		
78.97	0.61			200-235	BS235	3.109	3 1/8	0.024	3.387	3 3/8		
82.14	0.61			200-236	BS236	3.234	3 1/4	0.024	3.512	3 1/2		
85.32	0.61			200-237	BS237	3.359	3 3/8	0.024	3.637	3 5/8		
88.49	0.61			200-238	BS238	3.484	3 1/2	0.024	3.762	3 3/4		
91.67	0.71			200-239	BS239	3.609	3 5/8	0.028	3.887	3 7/8		
94.84	0.71			200-240	BS240	3.734	3 3/4	0.028	4.012	4		
98.02	0.71			200-241	BS241	3.859	3 7/8	0.028	4.137	4 1/8		
101.19	0.71			200-242	BS242	3.984	4	0.028	4.262	4 1/4		
104.37	0.71			200-243	BS243	4.109	4 1/8	0.028	4.387	4 3/8		
107.54	0.76			200-244	BS244	4.234	4 1/4	0.030	4.512	4 1/2		
110.72	0.76			200-245	BS245	4.359	4 3/8	0.030	4.637	4 5/8		
113.89	0.76			200-246	BS246	4.484	4 1/2	0.030	4.762	4 3/4		
117.07	0.76			200-247	BS247	4.609	4 5/8	0.030	4.887	4 7/8		
120.24	0.76			200-248	BS248	4.734	4 3/4	0.030	5.012	5		

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				(Actual)	(Nominal)		(Actual)	(Nominal)	(Actual)	(Nominal)		
123.42	0.89			200-249	BS249	4.859	4 7/8	0.035	5.137	5 1/8		
126.59	0.89			200-250	BS250	4.984	5	0.035	5.262	5 1/4		
129.77	0.89			200-251	BS251	5.109	5 1/8	0.035	5.387	5 3/8		
132.94	0.89			200-252	BS252	5.234	5 1/4	0.035	5.512	5 1/2		
136.12	0.89			200-253	BS253	5.359	5 3/8	0.035	5.637	5 5/8		
139.29	0.89			200-254	BS254	5.484	5 1/2	0.035	5.762	5 3/4		
142.47	0.89			200-255	BS255	5.609	5 5/8	0.035	5.887	5 7/8		
145.64	0.89			200-256	BS256	5.734	5 3/4	0.035	6.012	6		
148.82	0.89			200-257	BS257	5.859	5 7/8	0.035	6.137	6 1/8		
151.99	0.89			200-258	BS258	5.984	6	0.035	6.262	6 1/4		
158.34	1.02			200-259	BS259	6.234	6 1/4	0.040	6.512	6 1/2		
164.69	1.02			200-260	BS260	6.484	6 1/2	0.040	6.762	6 3/4		
171.04	1.02			200-261	BS261	6.734	6 3/4	0.040	7.012	7		
177.39	1.02			200-262	BS262	6.984	7	0.040	7.262	7 1/4		
183.74	1.14			200-263	BS263	7.234	7 1/4	0.045	7.512	7 1/2		
190.09	1.14			200-264	BS264	7.484	7 1/2	0.045	7.762	7 3/4		
196.44	1.14			200-265	BS265	7.734	7 3/4	0.045	8.012	8		
202.79	1.14			200-266	BS266	7.984	8	0.045	8.262	8 1/4		
209.14	1.27			200-267	BS267	8.234	8 1/4	0.050	8.512	8 1/2		
215.49	1.27			200-268	BS268	8.484	8 1/2	0.050	8.762	8 3/4		
221.84	1.27			200-269	BS269	8.734	8 3/4	0.050	9.012	9		
228.19	1.27			200-270	BS270	8.984	9	0.050	9.262	9 1/4		
234.54	1.40			200-271	BS271	9.234	9 1/4	0.055	9.512	9 1/2		
240.89	1.40			200-272	BS272	9.484	9 1/2	0.055	9.762	9 3/4		
247.24	1.40			200-273	BS273	9.734	9 3/4	0.055	10.012	10		

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						(Actual)	(Nominal)		(Actual)	(Nominal)	(Actual)	(Nominal)	
253.59	1.40			200-274	BS274	9.984	10	0.055	10.262	10 1/4			
266.29	1.40			200-275	BS275	10.484	10 1/2	0.055	10.762	10 3/4			
278.99	1.65			200-276	BS276	10.984	11	0.065	11.262	11 1/4			
291.69	1.65			200-277	BS277	11.484	11 1/2	0.065	11.762	11 3/4			
304.39	1.65			200-278	BS278	11.984	12	0.065	12.262	12 1/4			
329.79	1.65			200-279	BS279	12.984	13	0.065	13.262	13 1/4			
355.19	1.65			200-280	BS280	13.984	14	0.065	14.262	14 1/4			
380.57	1.65			200-281	BS281	14.983	15	0.065	15.262	15 1/4			
405.26	1.91			200-282	BS282	15.955	16	0.075	16.233	16 1/4			
430.66	2.03			200-283	BS283	16.955	17	0.080	17.233	17 1/4			
456.06	2.16			200-284	BS284	17.955	18	0.085	18.233	18 1/4			
10.46	0.13			5.33	0.13	200-309	BS309	0.412	7/16	0.005			
12.07	0.13	200-310	BS310			0.475	1/2	0.005	0.895	7/8			
13.64	0.18	200-311	BS311			0.537	9/16	0.007	0.957	15/16			
15.24	0.23	200-312	BS312			0.600	5/8	0.009	1.020	1			
16.81	0.23	200-313	BS313			0.662	11/16	0.009	1.082	1 1/16			
18.42	0.25	200-314	BS314			0.725	3/4	0.010	1.145	1 1/8			
19.99	0.25	200-315	BS315			0.787	13/16	0.010	1.207	1 3/16			
21.59	0.25	200-316	BS316			0.850	7/8	0.010	1.270	1 1/4			
23.16	0.25	200-317	BS317			0.912	15/16	0.010	1.332	1 5/16			
24.77	0.25	200-318	BS318			0.975	1	0.010	1.395	1 3/8			
26.34	0.25	200-319	BS319			1.037	1 1/16	0.010	1.457	1 7/16			
27.94	0.30	200-320	BS320			1.100	1 1/8	0.012	1.520	1 1/2			
29.51	0.30	200-321	BS321			1.162	1 3/16	0.012	1.582	1 9/16			
31.12	0.30	200-322	BS322			1.225	1 1/4	0.012	1.645	1 5/8			

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						(Actual)	(Nominal)		(Actual)	(Nominal)	(Actual)	(Nominal)
32.69	0.30			200-323	BS323	1.287	1 ⁵ / ₁₆	0.012	1.707	1 ¹¹ / ₁₆		
34.29	0.30			200-324	BS324	1.350	1 ³ / ₈	0.012	1.770	1 ³ / ₄		
37.47	0.38			200-325	BS325	1.475	1 ¹ / ₂	0.015	1.895	1 ⁷ / ₈		
40.64	0.38			200-326	BS326	1.600	1 ⁵ / ₈	0.015	2.020	2		
43.82	0.38			200-327	BS327	1.725	1 ³ / ₄	0.015	2.145	2 ¹ / ₈		
46.99	0.38			200-328	BS328	1.850	1 ⁷ / ₈	0.015	2.270	2 ¹ / ₄		
50.17	0.46			200-329	BS329	1.975	2	0.018	2.395	2 ³ / ₈		
53.34	0.46			200-330	BS330	2.100	2 ¹ / ₈	0.018	2.520	2 ¹ / ₂		
56.52	0.46			200-331	BS331	2.225	2 ¹ / ₄	0.018	2.645	2 ⁵ / ₈		
59.69	0.46			200-332	BS332	2.350	2 ³ / ₈	0.018	2.770	2 ³ / ₄		
62.87	0.51			200-333	BS333	2.475	2 ¹ / ₂	0.020	2.895	2 ⁷ / ₈		
66.04	0.51			200-334	BS334	2.600	2 ⁵ / ₈	0.020	3.020	3		
69.22	0.51			200-335	BS335	2.725	2 ³ / ₄	0.020	3.145	3 ¹ / ₈		
72.39	0.51			200-336	BS336	2.850	2 ⁷ / ₈	0.020	3.270	3 ¹ / ₄		
75.57	0.61			200-337	BS337	2.975	3	0.024	3.395	3 ³ / ₈		
78.74	0.61			200-338	BS338	3.100	3 ¹ / ₈	0.024	3.520	3 ¹ / ₂		
81.92	0.61			200-339	BS339	3.225	3 ¹ / ₄	0.024	3.645	3 ⁵ / ₈		
85.09	0.61			200-340	BS340	3.350	3 ³ / ₈	0.024	3.770	3 ³ / ₄		
88.27	0.61			200-341	BS341	3.475	3 ¹ / ₂	0.024	3.895	3 ⁷ / ₈		
91.44	0.71			200-342	BS342	3.600	3 ⁵ / ₈	0.028	4.020	4		
94.62	0.71			200-343	BS343	3.725	3 ³ / ₄	0.028	4.145	4 ¹ / ₈		
97.79	0.71			200-344	BS344	3.850	3 ⁷ / ₈	0.028	4.270	4 ¹ / ₄		
100.97	0.71			200-345	BS345	3.975	4	0.028	4.395	4 ³ / ₈		
104.14	0.71			200-346	BS346	4.100	4 ¹ / ₈	0.028	4.520	4 ¹ / ₂		
107.32	0.76			200-347	BS347	4.225	4 ¹ / ₄	0.030	4.645	4 ⁵ / ₈		

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						(Actual)	(Nominal)		(Actual)	(Nominal)	(Actual)	(Nominal)
110.49	0.76			200-348	BS348	4.350	4 ³ / ₈	0.030	4.770	4 ³ / ₄		
113.67	0.76			200-349	BS349	4.475	4 ¹ / ₂	0.030	4.895	4 ⁷ / ₈		
116.84	0.76			200-350	BS350	4.600	4 ⁵ / ₈	0.030	5.020	5		
120.02	0.76			200-351	BS351	4.725	4 ³ / ₄	0.030	5.145	5 ¹ / ₈		
123.19	0.76			200-352	BS352	4.850	4 ⁷ / ₈	0.030	5.270	5 ¹ / ₄		
126.37	0.94			200-353	BS353	4.975	5	0.037	5.395	5 ³ / ₈		
129.54	0.94			200-354	BS354	5.100	5 ¹ / ₈	0.037	5.520	5 ¹ / ₂		
132.72	0.94			200-355	BS355	5.225	5 ¹ / ₄	0.037	5.645	5 ⁵ / ₈		
135.89	0.94			200-356	BS356	5.350	5 ³ / ₈	0.037	5.770	5 ³ / ₄		
139.07	0.94			200-357	BS357	5.475	5 ¹ / ₂	0.037	5.895	5 ⁷ / ₈		
142.24	0.94			200-358	BS358	5.600	5 ⁵ / ₈	0.037	6.020	6		
145.42	0.94			200-359	BS359	5.725	5 ³ / ₄	0.037	6.145	6 ¹ / ₈		
148.59	0.94			200-360	BS360	5.850	5 ⁷ / ₈	0.037	6.270	6 ¹ / ₄		
151.77	0.94			200-361	BS361	5.975	6	0.037	6.395	6 ³ / ₈		
158.12	1.02			200-362	BS362	6.225	6 ¹ / ₄	0.040	6.645	6 ⁵ / ₈		
164.47	1.02			200-363	BS363	6.475	6 ¹ / ₂	0.040	6.895	6 ⁷ / ₈		
170.82	1.02			200-364	BS364	6.725	6 ³ / ₄	0.040	7.145	7 ¹ / ₈		
177.17	1.02			200-365	BS365	6.975	7	0.040	7.395	7 ³ / ₈		
183.52	1.14			200-366	BS366	7.225	7 ¹ / ₄	0.045	7.645	7 ⁵ / ₈		
189.87	1.14			200-367	BS367	7.475	7 ¹ / ₂	0.045	7.895	7 ⁷ / ₈		
196.22	1.14			200-368	BS368	7.725	7 ³ / ₄	0.045	8.145	8 ¹ / ₈		
202.57	1.14			200-369	BS369	7.975	8	0.045	8.395	8 ³ / ₈		
208.92	1.27			200-370	BS370	8.225	8 ¹ / ₄	0.050	8.645	8 ⁵ / ₈		
215.27	1.27			200-371	BS371	8.475	8 ¹ / ₂	0.050	8.895	8 ⁷ / ₈		
221.62	1.27			200-372	BS372	8.725	8 ³ / ₄	0.050	9.145	9 ¹ / ₈		

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						(Actual)	(Nominal)		(Actual)	(Nominal)	(Actual)	(Nominal)	
227.97	1.27			200-373	BS373	8.975	9	0.050	9.395	9 ³ / ₈			
234.32	1.40			200-374	BS374	9.225	9 ¹ / ₄	0.055	9.645	9 ⁵ / ₈			
240.67	1.40			200-375	BS375	9.475	9 ¹ / ₂	0.055	9.895	9 ⁷ / ₈			
247.02	1.40			200-376	BS376	9.725	9 ³ / ₄	0.055	10.145	10 ¹ / ₈			
253.37	1.40			200-377	BS377	9.975	10	0.055	10.395	10 ³ / ₈			
266.07	1.52			200-378	BS378	10.475	10 ¹ / ₂	0.060	10.895	10 ⁷ / ₈			
278.77	1.52			200-379	BS379	10.975	11	0.060	11.395	11 ³ / ₈			
291.47	1.65			200-380	BS380	11.475	11 ¹ / ₂	0.065	11.895	11 ⁷ / ₈			
304.17	1.65			200-381	BS381	11.975	12	0.065	12.395	12 ³ / ₈			
329.57	1.65			200-382	BS382	12.975	13	0.065	13.395	13 ³ / ₈			
354.97	1.78			200-383	BS383	13.975	14	0.070	14.395	14 ³ / ₈			
380.37	1.78			200-384	BS384	14.975	15	0.070	15.395	15 ³ / ₈			
405.26	1.91			200-385	BS385	15.955	16	0.075	16.375	16 ³ / ₈			
430.66	2.03			200-386	BS386	16.955	17	0.080	17.375	17 ³ / ₈			
456.06	2.16			200-387	BS387	17.955	18	0.085	18.375	18 ³ / ₈			
481.46	2.29			200-388	BS388	18.955	19	0.090	19.375	19 ³ / ₈			
506.86	2.41			200-389	BS389	19.955	20	0.095	20.375	20 ³ / ₈			
532.26	2.41			200-390	BS390	20.955	21	0.095	21.375	21 ³ / ₈			
557.66	2.54			200-391	BS391	21.955	22	0.100	22.375	22 ³ / ₈			
582.68	2.67			200-392	BS392	22.940	23	0.105	23.360	23 ³ / ₈			
608.08	2.79			200-393	BS393	23.940	24	0.110	24.360	24 ³ / ₈			
633.48	2.92			200-394	BS394	24.940	25	0.115	25.360	25 ³ / ₈			
658.88	3.05			200-395	BS395	25.940	26	0.120	26.360	26 ³ / ₈			
113.67	0.84	6.99	0.15	200-425	BS425	4.475	4 ¹ / ₂	0.033	5.025	5	0.280	1/4	0.006
116.84	0.84			200-426	BS426	4.600	4 ⁵ / ₈	0.033	5.150	5 ¹ / ₈			

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METRIC				Dowty Size Reference	Alternative Reference	IMPERIAL							
Internal Diameter (mm)	Internal Diameter Tolerance +/-	Cross Section (mm)	Cross Section Tolerance +/-			Internal Diameter (inches)		Internal Diameter Tolerance +/-	Outer Diameter (inches)		Cross Section (inches)		Cross Section Tolerance +/-
						(Actual)	(Nominal)		(Actual)	(Nominal)	(Actual)	(Nominal)	
120.02	0.84			200-427	BS427	4.725	4 3/4	0.033	5.275	5 1/4			
123.20	0.84			200-428	BS428	4.850	4 7/8	0.033	5.400	5 3/8			
126.37	0.94			200-429	BS429	4.975	5	0.037	5.525	5 1/2			
129.54	0.94			200-430	BS430	5.100	5 1/8	0.037	5.650	5 5/8			
132.72	0.94			200-431	BS431	5.225	5 1/4	0.037	5.775	5 3/4			
135.90	0.94			200-432	BS432	5.350	5 3/8	0.037	5.900	5 7/8			
139.07	0.94			200-433	BS433	5.475	5 1/2	0.037	6.025	6			
142.24	0.94			200-434	BS434	5.600	5 5/8	0.037	6.150	6 1/8			
145.42	0.94			200-435	BS435	5.725	5 3/4	0.037	6.275	6 1/4			
148.60	0.94			200-436	BS436	5.850	5 7/8	0.037	6.400	6 3/8			
151.77	0.94			200-437	BS437	5.975	6	0.037	6.525	6 1/2			
158.12	1.02			200-438	BS438	6.225	6 1/4	0.040	6.775	6 3/4			
164.47	1.02			200-439	BS439	6.475	6 1/2	0.040	7.025	7			
170.82	1.02			200-440	BS440	6.725	6 3/4	0.040	7.275	7 1/4			
177.17	1.02			200-441	BS441	6.975	7	0.040	7.525	7 1/2			
183.52	1.14			200-442	BS442	7.225	7 1/4	0.045	7.775	7 3/4			
189.87	1.14			200-443	BS443	7.475	7 1/2	0.045	8.025	8			
196.22	1.14			200-444	BS444	7.725	7 3/4	0.045	8.275	8 1/4			
202.57	1.14			200-445	BS445	7.975	8	0.045	8.525	8 1/2			
215.27	1.40			200-446	BS446	8.475	8 1/2	0.055	9.025	9			
227.97	1.40			200-447	BS447	8.975	9	0.055	9.525	9 1/2			
240.67	1.40			200-448	BS448	9.475	9 1/2	0.055	10.025	10			
253.57	1.40			200-449	BS449	9.983	10	0.055	10.525	10 1/2			
266.07	1.52			200-450	BS450	10.475	10 1/2	0.060	11.025	11			
278.77	1.52			200-451	BS451	10.975	11	0.060	11.525	11 1/2			

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METRIC				Dowty Size Reference	Alternative Reference	IMPERIAL							
Internal Diameter (mm)	Internal Diameter Tolerance +/-	Cross Section (mm)	Cross Section Tolerance +/-			Internal Diameter (inches)		Internal Diameter Tolerance +/-	Outer Diameter (inches)		Cross Section (inches)		
						(Actual)	(Nominal)		(Actual)	(Nominal)	(Actual)	(Nominal)	
291.47	1.52			200-452	BS452	11.475	11 1/2	0.060	12.025	12			
304.17	1.52			200-453	BS453	11.975	12	0.060	12.525	12 1/2			
316.87	1.52			200-454	BS454	12.475	12 1/2	0.060	13.025	13			
329.57	1.52			200-455	BS455	12.975	13	0.060	13.525	13 1/2			
342.27	1.78			200-456	BS456	13.475	13 1/2	0.070	14.007	14			
354.97	1.78			200-457	BS457	13.975	14	0.070	14.525	14 1/2			
367.67	1.78			200-458	BS458	14.475	14 1/2	0.070	15.025	15			
380.37	1.78			200-459	BS459	14.975	15	0.070	15.525	15 1/2			
393.07	1.78			200-460	BS460	15.475	15 1/2	0.070	16.025	16			
405.26	1.91			200-461	BS461	15.955	16	0.075	16.505	16 1/2			
417.96	1.91			200-462	BS462	16.455	16 1/2	0.075	17.005	17			
430.66	2.03			200-463	BS463	16.955	17	0.080	17.505	17 1/2			
443.36	2.16			200-464	BS464	17.455	17 1/2	0.085	18.005	18			
456.06	2.16			200-465	BS465	17.955	18	0.085	18.505	18 1/2			
468.76	2.16			200-466	BS466	18.455	18 1/2	0.085	19.005	19			
481.46	2.29			200-467	BS467	18.955	19	0.090	19.505	19 1/2			
494.16	2.29			200-468	BS468	19.455	19 1/2	0.090	20.005	20			
506.86	2.41			200-469	BS469	19.955	20	0.095	20.505	20 1/2			
532.26	2.41			200-470	BS470	20.955	21	0.095	21.505	21 1/2			
557.66	2.54			200-471	BS471	21.955	22	0.100	22.505	22 1/2			
582.68	2.67			200-472	BS472	22.940	23	0.105	23.490	23 1/2			
608.08	2.79			200-473	BS473	23.940	24	0.110	24.490	24 1/2			
633.48	2.92			200-474	BS474	24.940	25	0.115	25.490	25 1/2			
658.88	3.05			200-475	BS475	25.940	26	0.120	26.490	26 1/2			