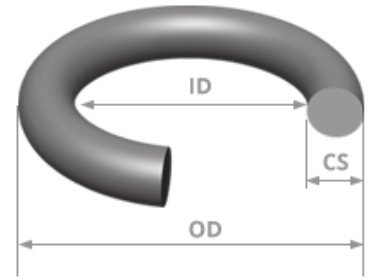


# Standard Japanese O-Rings Sizes

Tolerances vary by use, please see our tolerance pages. Thousands of non-standard sizes are available in stock or can be made within a few weeks typically without tooling fees so no need to settle for a less than optimal fit.



Size	CS (IN)	ID (IN)	OD (IN)	CS (MM)	ID (MM)	OD (MM)
G25	0.122	0.961	1.205	3.10	24.40	30.60
G30	0.122	1.157	1.401	3.10	29.40	35.60
G35	0.122	1.354	1.598	3.10	34.40	40.60
G40	0.122	1.551	1.795	3.10	39.40	45.60
G45	0.122	1.748	1.992	3.10	44.40	50.60
G50	0.122	1.945	2.189	3.10	49.40	55.60
G55	0.122	2.142	2.386	3.10	54.40	60.60
G60	0.122	2.339	2.583	3.10	59.40	65.60
G65	0.122	2.535	2.779	3.10	64.40	70.60
G70	0.122	2.732	2.976	3.10	69.40	75.60
G75	0.122	2.929	3.173	3.10	74.40	80.60
G80	0.122	3.126	3.370	3.10	79.40	85.60
G85	0.122	3.323	3.567	3.10	84.40	90.60
G90	0.122	3.520	3.764	3.10	89.40	95.60
G95	0.122	3.717	3.961	3.10	94.40	100.60
G100	0.122	3.913	4.157	3.10	99.40	105.60
G105	0.122	4.110	4.354	3.10	104.40	110.60
G110	0.122	4.307	4.551	3.10	109.40	115.60
G115	0.122	4.504	4.748	3.10	114.40	120.60
G120	0.122	4.701	4.945	3.10	119.40	125.60
G125	0.122	4.898	5.142	3.10	124.40	130.60
G130	0.122	5.094	5.338	3.10	129.40	135.60
G135	0.122	5.291	5.535	3.10	134.40	140.60
G140	0.122	5.488	5.732	3.10	139.40	145.60
G145	0.122	5.685	5.929	3.10	144.40	150.60
G150	0.224	5.878	6.326	5.70	149.30	160.70
G155	0.224	6.075	6.523	5.70	154.30	165.70
G160	0.224	6.272	6.720	5.70	159.30	170.70
G165	0.224	6.469	6.917	5.70	164.30	175.70
G170	0.224	6.665	7.113	5.70	169.30	180.70
G175	0.224	6.862	7.310	5.70	174.30	185.70
G180	0.224	7.059	7.507	5.70	179.30	190.70
G185	0.224	7.256	7.704	5.70	184.30	195.70
G190	0.224	7.453	7.901	5.70	189.30	200.70

Size	CS (IN)	ID (IN)	OD (IN)	CS (MM)	ID (MM)	OD (MM)
G195	0.224	7.650	8.098	5.70	194.30	205.70
G200	0.224	7.846	8.294	5.70	199.30	210.70
G210	0.224	8.240	8.688	5.70	209.30	220.70
G220	0.224	8.634	9.082	5.70	219.30	230.70
G230	0.224	9.028	9.476	5.70	229.30	240.70
G240	0.224	9.421	9.869	5.70	239.30	250.70
G250	0.224	9.815	10.263	5.70	249.30	260.70
G255	0.224	10.012	10.460	5.70	254.30	265.70
G260	0.224	10.209	10.657	5.70	259.30	270.70
G270	0.224	10.602	11.050	5.70	269.30	280.70
G280	0.224	10.996	11.444	5.70	279.30	290.70
G290	0.224	11.390	11.838	5.70	289.30	300.70
G300	0.224	11.783	12.231	5.70	299.30	310.70
G305	0.224	11.980	12.428	5.70	304.30	315.70
G310	0.224	12.177	12.625	5.70	309.30	320.70
G315	0.224	12.374	12.822	5.70	314.30	325.70
G320	0.224	12.571	13.019	5.70	319.30	330.70
G325	0.224	12.768	13.216	5.70	324.30	335.70
G330	0.224	12.965	13.413	5.70	329.30	340.70
G335	0.224	13.161	13.609	5.70	334.30	345.70
G340	0.224	13.358	13.806	5.70	339.30	350.70
G345	0.224	13.555	14.003	5.70	344.30	355.70
G350	0.224	13.752	14.200	5.70	349.30	360.70
G355	0.224	13.949	14.397	5.70	354.30	365.70
G360	0.224	14.146	14.594	5.70	359.30	370.70
G365	0.224	14.342	14.790	5.70	364.30	375.70
G370	0.224	14.539	14.987	5.70	369.30	380.70
G375	0.224	14.736	15.184	5.70	374.30	385.70
G380	0.224	14.933	15.381	5.70	379.30	390.70
G385	0.224	15.130	15.578	5.70	384.30	395.70
G390	0.224	15.327	15.775	5.70	389.30	400.70
G395	0.224	15.524	15.972	5.70	394.30	405.70
G400	0.224	15.720	16.168	5.70	399.30	410.70
G405	0.224	15.917	16.365	5.70	404.30	415.70
G410	0.224	16.114	16.562	5.70	409.30	420.70
G415	0.224	16.311	16.759	5.70	414.30	425.70
G420	0.224	16.508	16.956	5.70	419.30	430.70
G425	0.224	16.705	17.153	5.70	424.30	435.70
G430	0.224	16.902	17.350	5.70	429.30	440.70
G435	0.224	17.098	17.546	5.70	434.30	445.70
G440	0.224	17.295	17.743	5.70	439.30	450.70
G445	0.224	17.492	17.940	5.70	444.30	455.70
G450	0.224	17.689	18.137	5.70	449.30	460.70
G455	0.224	17.886	18.334	5.70	454.30	465.70
G460	0.224	18.083	18.531	5.70	459.30	470.70
G465	0.224	18.279	18.727	5.70	464.30	475.70
G470	0.224	18.476	18.924	5.70	469.30	480.70
G475	0.224	18.673	19.121	5.70	474.30	485.70

Size	CS (IN)	ID (IN)	OD (IN)	CS (MM)	ID (MM)	OD (MM)
G480	0.224	18.870	19.318	5.70	479.30	490.70
G485	0.224	19.067	19.515	5.70	484.30	495.70
G490	0.224	19.264	19.712	5.70	489.30	500.70
G495	0.224	19.461	19.909	5.70	494.30	505.70
G500	0.224	19.657	20.105	5.70	499.30	510.70
G510	0.224	20.051	20.499	5.70	509.30	520.70
G520	0.224	20.445	20.893	5.70	519.30	530.70
G530	0.224	20.839	21.287	5.70	529.30	540.70
G540	0.224	21.232	21.680	5.70	539.30	550.70
G550	0.224	21.626	22.074	5.70	549.30	560.70
G560	0.224	22.020	22.468	5.70	559.30	570.70
G570	0.224	22.413	22.861	5.70	569.30	580.70
G580	0.224	22.807	23.255	5.70	579.30	590.70
G590	0.224	23.201	23.649	5.70	589.30	600.70
G600	0.224	23.594	24.042	5.70	599.30	610.70
G605	0.224	23.791	24.239	5.70	604.30	615.70
G860	0.224	33.831	34.279	5.70	859.30	870.70
G910	0.224	35.799	36.247	5.70	909.30	920.70
GM005	0.197	0.197	0.591	5.00	5.00	15.00
GM010	0.197	0.394	0.788	5.00	10.00	20.00
GM015	0.197	0.591	0.985	5.00	15.00	25.00
GM020	0.197	0.787	1.181	5.00	20.00	30.00
GM025	0.197	0.984	1.378	5.00	25.00	35.00
GM030	0.197	1.181	1.575	5.00	30.00	40.00
GM035	0.197	1.378	1.772	5.00	35.00	45.00
GM040	0.197	1.575	1.969	5.00	40.00	50.00
GM045	0.197	1.772	2.166	5.00	45.00	55.00
GM050	0.197	1.969	2.363	5.00	50.00	60.00
GM055	0.197	2.165	2.559	5.00	55.00	65.00
GM060	0.197	2.362	2.756	5.00	60.00	70.00
GM065	0.197	2.559	2.953	5.00	65.00	75.00
GM070	0.197	2.756	3.150	5.00	70.00	80.00
GM075	0.197	2.953	3.347	5.00	75.00	85.00
GM080	0.197	3.150	3.544	5.00	80.00	90.00
GM085	0.197	3.346	3.740	5.00	85.00	95.00
GM090	0.197	3.543	3.937	5.00	90.00	100.00
GM095	0.197	3.740	4.134	5.00	95.00	105.00
GM100	0.197	3.937	4.331	5.00	100.00	110.00
GM105	0.197	4.134	4.528	5.00	105.00	115.00
GM110	0.197	4.331	4.725	5.00	110.00	120.00
GM115	0.197	4.528	4.922	5.00	115.00	125.00
GM120	0.197	4.724	5.118	5.00	120.00	130.00
GM125	0.197	4.921	5.315	5.00	125.00	135.00
GM130	0.197	5.118	5.512	5.00	130.00	140.00
GM135	0.197	5.315	5.709	5.00	135.00	145.00
GM140	0.197	5.512	5.906	5.00	140.00	150.00
GM145	0.197	5.709	6.103	5.00	145.00	155.00
GM150	0.197	5.906	6.300	5.00	150.00	160.00

Size	CS (IN)	ID (IN)	OD (IN)	CS (MM)	ID (MM)	OD (MM)
GM155	0.197	6.102	6.496	5.00	155.00	165.00
GM160	0.197	6.299	6.693	5.00	160.00	170.00
GM165	0.197	6.496	6.890	5.00	165.00	175.00
GM170	0.197	6.693	7.087	5.00	170.00	180.00
GM175	0.197	6.890	7.284	5.00	175.00	185.00
GM180	0.197	7.087	7.481	5.00	180.00	190.00
GM185	0.197	7.283	7.677	5.00	185.00	195.00
GM190	0.197	7.480	7.874	5.00	190.00	200.00
GM195	0.197	7.677	8.071	5.00	195.00	205.00
GM200	0.197	7.874	8.268	5.00	200.00	210.00
GM205	0.197	8.071	8.465	5.00	205.00	215.00
GM210	0.197	8.268	8.662	5.00	210.00	220.00
GM215	0.197	8.465	8.859	5.00	215.00	225.00
GM220	0.197	8.661	9.055	5.00	220.00	230.00
GM225	0.197	8.858	9.252	5.00	225.00	235.00
GM230	0.197	9.055	9.449	5.00	230.00	240.00
GM235	0.197	9.252	9.646	5.00	235.00	245.00
GM240	0.197	9.449	9.843	5.00	240.00	250.00
GM245	0.197	9.646	10.040	5.00	245.00	255.00
GM250	0.197	9.843	10.237	5.00	250.00	260.00
GM255	0.197	10.039	10.433	5.00	255.00	265.00
GM260	0.197	10.236	10.630	5.00	260.00	270.00
GM265	0.197	10.433	10.827	5.00	265.00	275.00
GM270	0.197	10.630	11.024	5.00	270.00	280.00
GM275	0.197	10.827	11.221	5.00	275.00	285.00
GM280	0.197	11.024	11.418	5.00	280.00	290.00
GM285	0.197	11.220	11.614	5.00	285.00	295.00
GM290	0.197	11.417	11.811	5.00	290.00	300.00
GM295	0.197	11.614	12.008	5.00	295.00	305.00
GM300	0.197	11.811	12.205	5.00	300.00	310.00
GS150	0.122	5.878	6.122	3.10	149.30	155.50
GS155	0.122	6.075	6.319	3.10	154.30	160.50
GS160	0.122	6.272	6.516	3.10	159.30	165.50
GS165	0.122	6.468	6.712	3.10	164.30	170.50
GS170	0.122	6.665	6.909	3.10	169.30	175.50
GS175	0.122	6.862	7.106	3.10	174.30	180.50
GS180	0.122	7.059	7.303	3.10	179.30	185.50
GS185	0.122	7.256	7.500	3.10	184.30	190.50
GS190	0.122	7.453	7.697	3.10	189.30	195.50
GS195	0.122	7.650	7.894	3.10	194.30	200.50
GS200	0.122	7.846	8.090	3.10	199.30	205.50
GS205	0.122	8.043	8.287	3.10	204.30	210.50
GS210	0.122	8.240	8.484	3.10	209.30	215.50
GS215	0.122	8.437	8.681	3.10	214.30	220.50
GS220	0.122	8.634	8.878	3.10	219.30	225.50
GS225	0.122	8.831	9.075	3.10	224.30	230.50
GS230	0.122	9.028	9.272	3.10	229.30	235.50
GS235	0.122	9.224	9.468	3.10	234.30	240.50

Size	CS (IN)	ID (IN)	OD (IN)	CS (MM)	ID (MM)	OD (MM)
GS240	0.122	9.421	9.665	3.10	239.30	245.50
GS245	0.122	9.618	9.862	3.10	244.30	250.50
GS250	0.122	9.815	10.059	3.10	249.30	255.50
GS255	0.122	10.012	10.256	3.10	254.30	260.50
GS260	0.122	10.209	10.453	3.10	259.30	265.50
GS265	0.122	10.405	10.649	3.10	264.30	270.50
GS270	0.122	10.602	10.846	3.10	269.30	275.50
GS275	0.122	10.799	11.043	3.10	274.30	280.50
GS280	0.122	10.996	11.240	3.10	279.30	285.50
GS285	0.122	11.193	11.437	3.10	284.30	290.50
GS290	0.122	11.390	11.634	3.10	289.30	295.50
GS295	0.122	11.587	11.831	3.10	294.30	300.50
GS300	0.122	11.783	12.027	3.10	299.30	305.50
GS305	0.122	11.980	12.224	3.10	304.30	310.50
GS310	0.122	12.177	12.421	3.10	309.30	315.50
GS315	0.122	12.374	12.618	3.10	314.30	320.50
GS320	0.122	12.571	12.815	3.10	319.30	325.50
GS325	0.122	12.768	13.012	3.10	324.30	330.50
GS330	0.122	12.965	13.209	3.10	329.30	335.50
GS335	0.122	13.161	13.405	3.10	334.30	340.50
GS340	0.122	13.358	13.602	3.10	339.30	345.50
GS345	0.122	13.555	13.799	3.10	344.30	350.50
GS350	0.122	13.752	13.996	3.10	349.30	355.50
GS355	0.122	13.949	14.193	3.10	354.30	360.50
GS360	0.122	14.146	14.390	3.10	359.30	365.50
GS365	0.122	14.342	14.586	3.10	364.30	370.50
GS370	0.122	14.539	14.783	3.10	369.30	375.50
GS375	0.122	14.736	14.980	3.10	374.30	380.50
GS380	0.122	14.933	15.177	3.10	379.30	385.50
GS385	0.122	15.130	15.374	3.10	384.30	390.50
GS390	0.122	15.327	15.571	3.10	389.30	395.50
GS395	0.122	15.524	15.768	3.10	394.30	400.50
GS400	0.122	15.720	15.964	3.10	399.30	405.50
P3	0.075	0.110	0.260	1.90	2.80	6.60
P4	0.075	0.150	0.300	1.90	3.80	7.60
P5	0.075	0.189	0.339	1.90	4.80	8.60
P6	0.075	0.228	0.378	1.90	5.80	9.60
P7	0.075	0.268	0.418	1.90	6.80	10.60
P8	0.075	0.307	0.457	1.90	7.80	11.60
P9	0.075	0.346	0.496	1.90	8.80	12.60
P10	0.075	0.386	0.536	1.90	9.80	13.60
P10A	0.094	0.386	0.574	2.40	9.80	14.60
P11	0.094	0.425	0.613	2.40	10.80	15.60
P11.2	0.094	0.433	0.621	2.40	11.00	15.80
P12	0.094	0.465	0.653	2.40	11.80	16.60
P12.5	0.094	0.484	0.672	2.40	12.30	17.10
P14	0.094	0.543	0.731	2.40	13.80	18.60
P15	0.094	0.583	0.771	2.40	14.80	19.60

Size	CS (IN)	ID (IN)	OD (IN)	CS (MM)	ID (MM)	OD (MM)
P16	0.094	0.622	0.810	2.40	15.80	20.60
P18	0.094	0.701	0.889	2.40	17.80	22.60
P20	0.094	0.780	0.968	2.40	19.80	24.60
P21	0.094	0.819	1.007	2.40	20.80	25.60
P22	0.094	0.858	1.046	2.40	21.80	26.60
P22.4	0.138	0.870	1.146	3.50	22.10	29.10
P22A	0.138	0.854	1.130	3.50	21.70	28.70
P24	0.138	0.933	1.209	3.50	23.70	30.70
P25	0.138	0.972	1.248	3.50	24.70	31.70
P25.5	0.138	0.992	1.268	3.50	25.20	32.20
P26	0.138	1.012	1.288	3.50	25.70	32.70
P28	0.138	1.091	1.367	3.50	27.70	34.70
P29	0.138	1.130	1.406	3.50	28.70	35.70
P29.5	0.138	1.150	1.426	3.50	29.20	36.20
P30	0.138	1.169	1.445	3.50	29.70	36.70
P31	0.138	1.209	1.485	3.50	30.70	37.70
P31.5	0.138	1.228	1.504	3.50	31.20	38.20
P32	0.138	1.248	1.524	3.50	31.70	38.70
P34	0.138	1.327	1.603	3.50	33.70	40.70
P35	0.138	1.366	1.642	3.50	34.70	41.70
P35.5	0.138	1.386	1.662	3.50	35.20	42.20
P36	0.138	1.406	1.682	3.50	35.70	42.70
P38	0.138	1.484	1.760	3.50	37.70	44.70
P39	0.138	1.524	1.800	3.50	38.70	45.70
P40	0.138	1.563	1.839	3.50	39.70	46.70
P41	0.138	1.602	1.878	3.50	40.70	47.70
P42	0.138	1.642	1.918	3.50	41.70	48.70
P44	0.138	1.720	1.996	3.50	43.70	50.70
P45	0.138	1.760	2.036	3.50	44.70	51.70
P46	0.138	1.799	2.075	3.50	45.70	52.70
P48	0.138	1.878	2.154	3.50	47.70	54.70
P48A	0.224	1.874	2.322	5.70	47.60	59.00
P49	0.138	1.917	2.193	3.50	48.70	55.70
P50	0.138	1.957	2.233	3.50	49.70	56.70
P50A	0.224	1.953	2.401	5.70	49.60	61.00
P52	0.224	2.031	2.479	5.70	51.60	63.00
P53	0.224	2.071	2.519	5.70	52.60	64.00
P55	0.224	2.150	2.598	5.70	54.60	66.00
P56	0.224	2.189	2.637	5.70	55.60	67.00
P58	0.224	2.268	2.716	5.70	57.60	69.00
P60	0.224	2.346	2.794	5.70	59.60	71.00
P62	0.224	2.425	2.873	5.70	61.60	73.00
P63	0.224	2.465	2.913	5.70	62.60	74.00
P65	0.224	2.543	2.991	5.70	64.60	76.00
P67	0.224	2.622	3.070	5.70	66.60	78.00
P70	0.224	2.740	3.188	5.70	69.60	81.00
P71	0.224	2.780	3.228	5.70	70.60	82.00
P75	0.224	2.937	3.385	5.70	74.60	86.00

Size	CS (IN)	ID (IN)	OD (IN)	CS (MM)	ID (MM)	OD (MM)
P80	0.224	3.134	3.582	5.70	79.60	91.00
P85	0.224	3.331	3.779	5.70	84.60	96.00
P90	0.224	3.528	3.976	5.70	89.60	101.00
P95	0.224	3.724	4.172	5.70	94.60	106.00
P100	0.224	3.921	4.369	5.70	99.60	111.00
P102	0.224	4.000	4.448	5.70	101.60	113.00
P105	0.224	4.118	4.566	5.70	104.60	116.00
P110	0.224	4.315	4.763	5.70	109.60	121.00
P112	0.224	4.394	4.842	5.70	111.60	123.00
P115	0.224	4.512	4.960	5.70	114.60	126.00
P120	0.224	4.709	5.157	5.70	119.60	131.00
P125	0.224	4.906	5.354	5.70	124.60	136.00
P130	0.224	5.102	5.550	5.70	129.60	141.00
P132	0.224	5.181	5.629	5.70	131.60	143.00
P135	0.224	5.299	5.747	5.70	134.60	146.00
P140	0.224	5.496	5.944	5.70	139.60	151.00
P145	0.224	5.693	6.141	5.70	144.60	156.00
P150	0.224	5.890	6.338	5.70	149.60	161.00
P150A	0.331	5.886	6.548	8.40	149.50	166.30
P155	0.331	6.083	6.745	8.40	154.50	171.30
P160	0.331	6.280	6.942	8.40	159.50	176.30
P165	0.331	6.476	7.138	8.40	164.50	181.30
P170	0.331	6.673	7.335	8.40	169.50	186.30
P175	0.331	6.870	7.532	8.40	174.50	191.30
P180	0.331	7.067	7.729	8.40	179.50	196.30
P185	0.331	7.264	7.926	8.40	184.50	201.30
P190	0.331	7.461	8.123	8.40	189.50	206.30
P195	0.331	7.657	8.319	8.40	194.50	211.30
P200	0.331	7.854	8.516	8.40	199.50	216.30
P205	0.331	8.051	8.713	8.40	204.50	221.30
P209	0.331	8.209	8.871	8.40	208.50	225.30
P210	0.331	8.248	8.910	8.40	209.50	226.30
P215	0.331	8.445	9.107	8.40	214.50	231.30
P220	0.331	8.642	9.304	8.40	219.50	236.30
P225	0.331	8.839	9.501	8.40	224.50	241.30
P230	0.331	9.035	9.697	8.40	229.50	246.30
P235	0.331	9.232	9.894	8.40	234.50	251.30
P240	0.331	9.429	10.091	8.40	239.50	256.30
P245	0.331	9.626	10.288	8.40	244.50	261.30
P250	0.331	9.823	10.485	8.40	249.50	266.30
P255	0.331	10.020	10.682	8.40	254.50	271.30
P260	0.331	10.217	10.879	8.40	259.50	276.30
P265	0.331	10.413	11.075	8.40	264.50	281.30
P270	0.331	10.610	11.272	8.40	269.50	286.30
P275	0.331	10.807	11.469	8.40	274.50	291.30
P280	0.331	11.004	11.666	8.40	279.50	296.30
P285	0.331	11.201	11.863	8.40	284.50	301.30
P290	0.331	11.398	12.060	8.40	289.50	306.30

Size	CS (IN)	ID (IN)	OD (IN)	CS (MM)	ID (MM)	OD (MM)
P295	0.331	11.594	12.256	8.40	294.50	311.30
P300	0.331	11.791	11.791	8.40	299.50	316.30
P305	0.331	11.988	11.988	8.40	304.50	321.30
P310	0.331	12.185	12.185	8.40	309.50	326.30
P315	0.331	12.382	12.382	8.40	314.50	331.30
P320	0.331	12.579	12.579	8.40	319.50	336.30
P325	0.331	12.776	12.776	8.40	324.50	341.30
P330	0.331	12.972	12.972	8.40	329.50	346.30
P335	0.331	13.169	13.169	8.40	334.50	351.30
P340	0.331	13.366	13.366	8.40	339.50	356.30
P345	0.331	13.563	13.563	8.40	344.50	361.30
P350	0.331	13.760	13.760	8.40	349.50	366.30
P355	0.331	13.957	13.957	8.40	354.50	371.30
P360	0.331	14.154	14.154	8.40	359.50	376.30
P365	0.331	14.350	14.350	8.40	364.50	381.30
P370	0.331	14.547	14.547	8.40	369.50	386.30
P375	0.331	14.744	14.744	8.40	374.50	391.30
P380	0.331	14.941	14.941	8.40	379.50	396.30
P385	0.331	15.138	15.138	8.40	384.50	401.30
P390	0.331	15.335	15.335	8.40	389.50	406.30
P395	0.331	15.531	15.531	8.40	394.50	411.30
P400	0.331	15.728	15.728	8.40	399.50	416.30
P405	0.331	15.925	15.925	8.40	404.50	421.30
P410	0.331	16.122	16.122	8.40	409.50	426.30
P415	0.331	16.319	16.319	8.40	414.50	431.30
P420	0.331	16.516	16.516	8.40	419.50	436.30
P425	0.331	16.713	16.713	8.40	424.50	441.30
P430	0.331	16.909	16.909	8.40	429.50	446.30
P435	0.331	17.106	17.106	8.40	434.50	451.30
P440	0.331	17.303	17.303	8.40	439.50	456.30
P445	0.331	17.500	17.500	8.40	444.50	461.30
P450	0.331	17.697	17.697	8.40	449.50	466.30
P455	0.331	17.894	17.894	8.40	454.50	471.30
P460	0.331	18.091	18.091	8.40	459.50	476.30
P465	0.331	18.287	18.287	8.40	464.50	481.30
P470	0.331	18.484	18.484	8.40	469.50	486.30
P475	0.331	18.681	18.681	8.40	474.50	491.30
P480	0.331	18.878	18.878	8.40	479.50	496.30
P485	0.331	19.075	19.075	8.40	484.50	501.30
P490	0.331	19.272	19.272	8.40	489.50	506.30
P495	0.331	19.468	19.468	8.40	494.50	511.30
P500	0.331	19.665	19.665	8.40	499.50	516.30
P590	0.331	23.209	23.209	8.40	589.50	606.30
P600	0.331	23.602	23.602	8.40	599.50	616.30
P610	0.331	23.996	23.996	8.40	609.50	626.30
P620	0.331	24.390	24.390	8.40	619.50	636.30
P625	0.331	24.587	24.587	8.40	624.50	641.30
P635	0.331	24.980	24.980	8.40	634.50	651.30



Size	CS (IN)	ID (IN)	OD (IN)	CS (MM)	ID (MM)	OD (MM)
P650	0.331	25.571	25.571	8.40	649.50	666.30
P680	0.331	26.752	26.752	8.40	679.50	696.30
P690	0.331	27.146	27.146	8.40	689.50	706.30
P700	0.331	27.539	27.539	8.40	699.50	716.30
P710	0.331	27.933	27.933	8.40	709.50	726.30
P720	0.331	28.327	28.327	8.40	719.50	736.30
P730	0.331	28.720	28.720	8.40	729.50	746.30
P740	0.331	29.114	29.114	8.40	739.50	756.30
P750	0.331	29.508	29.508	8.40	749.50	766.30
P760	0.331	29.902	29.902	8.40	759.50	776.30
P770	0.331	30.295	30.295	8.40	769.50	786.30
P780	0.331	30.689	30.689	8.40	779.50	796.30
P790	0.331	31.083	31.083	8.40	789.50	806.30
P800	0.331	31.476	31.476	8.40	799.50	816.30
P810	0.331	31.870	31.870	8.40	809.50	826.30
P820	0.331	32.264	32.264	8.40	819.50	836.30
P830	0.331	32.657	32.657	8.40	829.50	846.30
P840	0.331	33.051	33.051	8.40	839.50	856.30
P850	0.331	33.445	33.445	8.40	849.50	866.30
P860	0.331	33.839	33.839	8.40	859.50	876.30
P870	0.331	34.232	34.232	8.40	869.50	886.30
P880	0.331	34.626	34.626	8.40	879.50	896.30
P890	0.331	35.020	35.020	8.40	889.50	906.30
P900	0.331	35.413	35.413	8.40	899.50	916.30
P910	0.331	35.807	35.807	8.40	909.50	926.30
P915	0.331	36.004	36.004	8.40	914.50	931.30
P920	0.331	36.201	36.201	8.40	919.50	936.30
P930	0.331	36.594	36.594	8.40	929.50	946.30
P940	0.331	36.988	36.988	8.40	939.50	956.30
P950	0.331	37.382	37.382	8.40	949.50	966.30
P960	0.331	37.776	37.776	8.40	959.50	976.30
P970	0.331	38.169	38.169	8.40	969.50	986.30
P980	0.331	38.563	38.563	8.40	979.50	996.30
P990	0.331	38.957	38.957	8.40	989.50	1006.30
P1000	0.331	39.350	39.350	8.40	999.50	1016.30
S3	0.059	0.098	0.216	1.50	2.50	5.50
S4	0.059	0.138	0.256	1.50	3.50	6.50
S5	0.059	0.177	0.295	1.50	4.50	7.50
S6	0.059	0.217	0.335	1.50	5.50	8.50
S7	0.059	0.256	0.374	1.50	6.50	9.50
S8	0.059	0.295	0.413	1.50	7.50	10.50
S9	0.059	0.335	0.453	1.50	8.50	11.50
S10	0.059	0.374	0.492	1.50	9.50	12.50
S11.2	0.059	0.421	0.539	1.50	10.70	13.70
S12	0.059	0.453	0.571	1.50	11.50	14.50
S12.5	0.059	0.472	0.590	1.50	12.00	15.00
S14	0.059	0.531	0.649	1.50	13.50	16.50
S15	0.059	0.571	0.689	1.50	14.50	17.50

Size	CS (IN)	ID (IN)	OD (IN)	CS (MM)	ID (MM)	OD (MM)
S16	0.059	0.610	0.728	1.50	15.50	18.50
S18	0.059	0.689	0.807	1.50	17.50	20.50
S20	0.059	0.768	0.886	1.50	19.50	22.50
S22	0.059	0.846	0.964	1.50	21.50	24.50
S22.4	0.079	0.862	1.020	2.00	21.90	25.90
S24	0.079	0.925	1.083	2.00	23.50	27.50
S25	0.079	0.965	1.123	2.00	24.50	28.50
S26	0.079	1.004	1.162	2.00	25.50	29.50
S28	0.079	1.083	1.241	2.00	27.50	31.50
S29	0.079	1.122	1.280	2.00	28.50	32.50
S30	0.079	1.161	1.319	2.00	29.50	33.50
S31.5	0.079	1.220	1.378	2.00	31.00	35.00
S32	0.079	1.240	1.398	2.00	31.50	35.50
S34	0.079	1.319	1.477	2.00	33.50	37.50
S35	0.079	1.358	1.516	2.00	34.50	38.50
S35.5	0.079	1.378	1.536	2.00	35.00	39.00
S36	0.079	1.398	1.556	2.00	35.50	39.50
S38	0.079	1.476	1.634	2.00	37.50	41.50
S39	0.079	1.516	1.674	2.00	38.50	42.50
S40	0.079	1.555	1.713	2.00	39.50	43.50
S42	0.079	1.634	1.792	2.00	41.50	45.50
S44	0.079	1.713	1.871	2.00	43.50	47.50
S45	0.079	1.752	1.910	2.00	44.50	48.50
S46	0.079	1.791	1.949	2.00	45.50	49.50
S48	0.079	1.870	2.028	2.00	47.50	51.50
S50	0.079	1.949	2.107	2.00	49.50	53.50
S53	0.079	2.067	2.225	2.00	52.50	56.50
S55	0.079	2.146	2.304	2.00	54.50	58.50
S56	0.079	2.185	2.343	2.00	55.50	59.50
S60	0.079	2.343	2.501	2.00	59.50	63.50
S63	0.079	2.461	2.619	2.00	62.50	66.50
S65	0.079	2.539	2.697	2.00	64.50	68.50
S67	0.079	2.618	2.776	2.00	66.50	70.50
S70	0.079	2.736	2.894	2.00	69.50	73.50
S71	0.079	2.776	2.934	2.00	70.50	74.50
S75	0.079	2.933	3.091	2.00	74.50	78.50
S80	0.079	3.130	3.288	2.00	79.50	83.50
S85	0.079	3.327	3.485	2.00	84.50	88.50
S90	0.079	3.524	3.682	2.00	89.50	93.50
S95	0.079	3.720	3.878	2.00	94.50	98.50
S100	0.079	3.917	4.075	2.00	99.50	103.50
S105	0.079	4.114	4.272	2.00	104.50	108.50
S110	0.079	4.311	4.469	2.00	109.50	113.50
S112	0.079	4.390	4.548	2.00	111.50	115.50
S115	0.079	4.508	4.666	2.00	114.50	118.50
S120	0.079	4.705	4.863	2.00	119.50	123.50
S125	0.079	4.902	5.060	2.00	124.50	128.50
S130	0.079	5.098	5.256	2.00	129.50	133.50

Size	CS (IN)	ID (IN)	OD (IN)	CS (MM)	ID (MM)	OD (MM)
S132	0.079	5.177	5.335	2.00	131.50	135.50
S135	0.079	5.295	5.453	2.00	134.50	138.50
S140	0.079	5.492	5.650	2.00	139.50	143.50
S145	0.079	5.689	5.847	2.00	144.50	148.50
S150	0.079	5.886	6.044	2.00	149.50	153.50
SS005	0.039	0.020	0.098	1.00	0.50	2.50
SS008	0.039	0.031	0.110	1.00	0.80	2.80
SS010	0.039	0.039	0.118	1.00	1.00	3.00
SS012	0.039	0.047	0.126	1.00	1.20	3.20
SS015	0.039	0.059	0.138	1.00	1.50	3.50
SS020	0.039	0.079	0.157	1.00	2.00	4.00
SS022	0.039	0.087	0.165	1.00	2.20	4.20
SS025	0.039	0.098	0.177	1.00	2.50	4.50
SS028	0.039	0.110	0.189	1.00	2.80	4.80
SS030	0.039	0.118	0.197	1.00	3.00	5.00
SS032	0.039	0.126	0.205	1.00	3.20	5.20
SS035	0.039	0.138	0.217	1.00	3.50	5.50
SS038	0.039	0.150	0.228	1.00	3.80	5.80
SS040	0.039	0.157	0.236	1.00	4.00	6.00
SS042	0.039	0.165	0.244	1.00	4.20	6.20
SS045	0.039	0.177	0.256	1.00	4.50	6.50
SS048	0.039	0.189	0.268	1.00	4.80	6.80
SS050	0.039	0.197	0.276	1.00	5.00	7.00
SS055	0.039	0.217	0.295	1.00	5.50	7.50
SS060	0.039	0.236	0.315	1.00	6.00	8.00
SS065	0.039	0.256	0.335	1.00	6.50	8.50
SS070	0.039	0.276	0.354	1.00	7.00	9.00
SS075	0.039	0.295	0.374	1.00	7.50	9.50
SS080	0.039	0.315	0.394	1.00	8.00	10.00
SS085	0.039	0.335	0.413	1.00	8.50	10.50
SS090	0.039	0.354	0.433	1.00	9.00	11.00
SS095	0.039	0.374	0.453	1.00	9.50	11.50
SS100	0.039	0.394	0.472	1.00	10.00	12.00
SS105	0.039	0.413	0.492	1.00	10.50	12.50
SS110	0.039	0.433	0.512	1.00	11.00	13.00
SS115	0.039	0.453	0.531	1.00	11.50	13.50
SS120	0.039	0.472	0.551	1.00	12.00	14.00
SS125	0.039	0.492	0.571	1.00	12.50	14.50
SS130	0.039	0.512	0.591	1.00	13.00	15.00
SS135	0.039	0.531	0.610	1.00	13.50	15.50
SS140	0.039	0.551	0.630	1.00	14.00	16.00
SS145	0.039	0.571	0.650	1.00	14.50	16.50
SS150	0.039	0.591	0.669	1.00	15.00	17.00
SS155	0.039	0.610	0.689	1.00	15.50	17.50
SS160	0.039	0.630	0.709	1.00	16.00	18.00
SS165	0.039	0.650	0.728	1.00	16.50	18.50
SS170	0.039	0.669	0.748	1.00	17.00	19.00
SS175	0.039	0.689	0.768	1.00	17.50	19.50

Size	CS (IN)	ID (IN)	OD (IN)	CS (MM)	ID (MM)	OD (MM)
SS180	0.039	0.709	0.787	1.00	18.00	20.00
SS185	0.039	0.728	0.807	1.00	18.50	20.50
SS190	0.039	0.748	0.827	1.00	19.00	21.00
SS195	0.039	0.768	0.846	1.00	19.50	21.50
SS200	0.039	0.787	0.866	1.00	20.00	22.00
V15	0.157	0.571	0.885	4.00	14.50	22.50
V24	0.157	0.925	1.239	4.00	23.50	31.50
V34	0.157	1.319	1.633	4.00	33.50	41.50
V40	0.157	1.555	1.869	4.00	39.50	47.50
V55	0.157	2.146	2.460	4.00	54.50	62.50
V70	0.157	2.717	3.031	4.00	69.00	77.00
V85	0.157	3.307	3.621	4.00	84.00	92.00
V100	0.157	3.898	4.212	4.00	99.00	107.00
V1055	0.394	41.102	41.890	10.00	1044.00	1064.00
V120	0.157	4.685	4.999	4.00	119.00	127.00
V150	0.157	5.846	6.160	4.00	148.50	156.50
V175	0.157	6.811	7.125	4.00	173.00	181.00
V225	0.236	8.760	9.232	6.00	222.50	234.50
V275	0.236	10.709	11.181	6.00	272.00	284.00
V325	0.236	12.657	13.129	6.00	321.50	333.50
V380	0.236	14.803	15.275	6.00	376.00	388.00
V430	0.236	16.752	17.224	6.00	425.50	437.50
V480	0.394	18.701	19.489	10.00	475.00	495.00
V530	0.394	20.650	21.438	10.00	524.50	544.50
V585	0.394	22.795	23.583	10.00	579.00	599.00
V640	0.394	24.941	25.729	10.00	633.50	653.50
V690	0.394	26.890	27.678	10.00	683.00	703.00
V740	0.394	28.839	29.627	10.00	732.50	752.50
V790	0.394	30.787	31.575	10.00	782.00	802.00
V845	0.394	32.933	33.721	10.00	836.50	856.50
V950	0.394	37.028	37.816	10.00	940.50	960.50