SEALING SYSTEMS

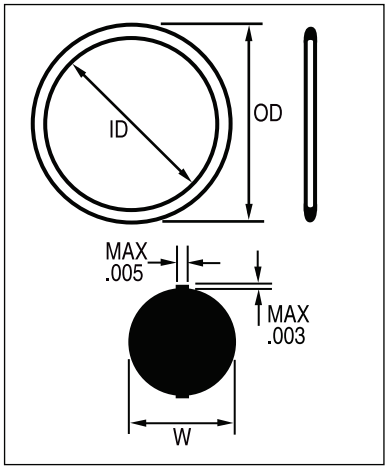
Engineering Equipment for Sanitary Applications

USP CLASS VI - FDA O'RINGS

EDITION 2023

Elastomer Characteristics

If you don’t know the size or number of the “O”-Ring, you will need to determine the I.D. and width (see illustration below) or you may enclose a sample of the size you need with your quote request or order.



Buna-N compound No. 1107 material will handle most food, dairy, and sanitary services.
It is the backbone of the food and edibles industries, has excellent resistance to compression set, tear and abrasion. It has good acid and mild alkali resistance and is good for vegetable oil service.
Rated at -40° to 225°F.

EPDM (ethylene propylene rubber) compound No. 2107 is excellent for hot water and steam service up to 275°F. It is very abrasion-resistant and has excellent resistance to ozone, sunlight or weather and de-ionized water.
EPDM also has good tensile strength and good resistance to mild acids, alkalis and alcohols.
Rated -65°F to 275°F (short term to 400°F)

Viton (bisphenol cured fluorocarbon elastomer) compound No. 3207 material has excellent mechanical, chemical, heat and steam resistance. It is particularly well-suited for steam resistance.
It is particularly well-suited for hot fatty and oil products.
Viton is especially good for hard vacuum service because of its high molecular weight and low gas permeability. It has been used to 65^{o}F in some static seals - flexibility, 0^{o}F to 400^{o}F
Rated at -20^{o}F to 400^{o}F (short terms to 600^{o}F).

Silicone Platinum cured compound No. 4749 (clear) material is known for its standard of purity and non-leaching characteristics. Its ability to withstand many chemicals and combination of chemicals is the reason it is so popular with the pharmaceutical industry.
Silicone has excellent low temperature flexibility - to 100^{o}F in dry heat 450^{o}F is the top for continuous duty with 600^{o}F possible for short periods.
Rated at -80^{o}F to 400^{o}F.

Kalrez® perfluoroelastomer compounds No. 6230 (black) and 6221 (white) last longer and seal more effectively than other elastomers due to their exceptional chemical resistance and thermal stability. **Kalrez®** o-rings can withstand attack by more than 1,800 chemicals, including many acids and amines that cause other elastomers to fail due to excessive swelling. Even after long-term exposure to temperatures up to 600^{o}F, **Kalrez®** retains its elasticity and recovery properties better than other high temperature elastomers.

Groove Finish

Straight-sided grooves are best to prevent extrusion or nibbling, but 5° sloping sides are easier to machine and are suitable for pressures up to 1599 psi. Finish sides to 32 RMS with no burrs, nicks, or scratches.
Locate in a shaft or rod, if possible, for easier machining and installation.

The rubbing surfaces should be 8 to 16 RMS without longitudinal or circumferential scratches. Best surfaces are honed, burnished, or hard chromeplate.
Soft or stringy metals such as aluminum, brass, bronze, monel, or free stainless steel should not be used for moving seals.
A-63RMS finish may be used for static glands.

Finishes below 5 RMS wipe too clean for good moving seal life . Steel or cast iron cylinder bores are preferred. They should be thick enough not to expand or breathe with pressure, otherwise the radial clearance gap may expand and contract with pressure fluctuations causing nibbling of the ring.
Pistons should be softer than cylinder materials to avoid scratching.

(E) Maximum Radial Clearance Gap to Prevent Extrusion

Maximum Pressure PSI6	"O"-Ring Hardness (Shore A)				
	50	0	70	809	0
100 250 500	.008" .005" .003"	.009" .008" .005"	.010" .009" .008"	.013" .012" .010"	.016" .014" .012"
1,000 1,500 2,000	.001" .000"	.003" .001" .000"	.005" .003" .002"	.008" .005" .004"	.010" .008" .005"
3,000 4,000 5,000			.000"	.002" .000"	.003" .001" .000"

Clearance apply to dynamic "O" - Rings with no backup washers for .139 in. (3.5mm) "O" -Ring cross-sections and up. Smaller cross-sections do not give effective moving seal life, are less resistant to extrusion, and may be critical in sealing high frequency dynamic motion.

Static Tolerances

SIZE NO.	A ±000	B ±000	C ±000	D ±000
001-012	+.001	-.001	-.001	+.001
013-050	+.002	-.002	-.002	+.002
102-178	+.003	-.003	-.003	+.003
201-284	+.004	-.004	-.003	+.003
309-395	+.005	-.005	-.003	+.003
425-475	+.006	-.006	-.003	+.003

Dynamic Tolerances

SIZE NO.	A ±000	B ±000	C ±000	D ±000
001-012	+.001	-.001	-.001	+.001
012-016	+.003	-.003	-.003	+.003
201-222	+.004	-.004	-.004	+.004
309-349	+.005	-.005	-.005	+.005
425-460	+.006	-.006	-.006	+.006

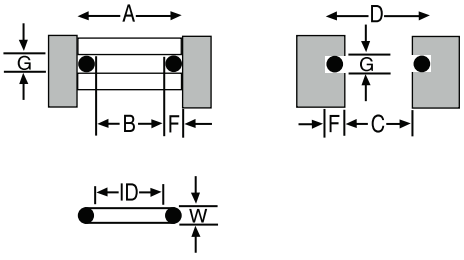
(G) Groove Dimensions — Commercial Applications

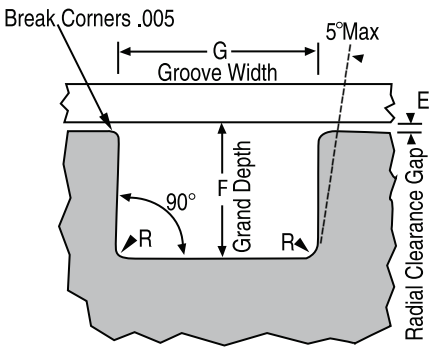
"O"Ring Cross-Section	ROLLING SEALS			NON-ROLLING SEALS*		
W	No Backup Washer	One Backup Washer	Two Backup Washer	No Backup Washer	One Backup Washer	Two Backup Washer
.070	.093	.149	.207	.083	.138	.205
.103	.140	.183	.245	.120	.171	.238
.139	.185	.225	.304	.160	.208	.275
.210	.285	.334	.474	.235	.311	.410
.275	.375	.440	.579	.310	.408	.538

* These groove widths are for compounds that free swell less than 15%. Suitable extra allowances should be made for higher swell.

	BUNA-N (1107)	EPDM (2107)	VITON™ (3207)	SILICONE (4137)	SILICONE (4749)
Specific Gravity	1.38	1.20	1.94	1.20	1.22
Tensile Strength, psi	2010	1705	1910	1256	1130
Elongation, %	405	450	310	307	610
300% Modulus, psi	1430	1260	1610	1245	450
Hardness, Shore A, pts.	70	71	74	75	80
Compression Set, % (Method B, 22 hrs. @ 100°C)	21.6	27.5	26.7	24.5	6.5

* These materials meet the criteria of the FDA, Title 21, Paragraph 177.2600, as a direct contact material with food and pharmaceutical products.





Size Number	Nominal Size					INCH STANDARD				METRIC STANDARD				Ordering Code
						Inside Diameter		Cross Section W		Inside Diameter		Cross Section W		
						IN.+	/-	IN.+	/-	MM.	+/-	MM.	+/-	
001	1/32	X	3/32	X	1/32	.029	.004	.040	.003	0.74	0.10	1.02	0.08	00074102-*-**
902 1/2	1/16	X	1/8	X	1/32	.070	.004	.040	.003	1.78	0.10	1.02	0.08	00178102-*-**
002	3/64	X	9/64	X	1/32	.042	.004	.050	.003	1.07	0.10	1.27	0.08	00107127-*-**
003	1/16	X	3/16	X	1/16	.056	.004	.060	.003	1.42	0.10	1.52	0.08	00142152-*-**
004	5/64	X	13/64	X	1/16	.070	.005	.070	.003	1.78	0.13	1.78	0.08	00178178-*-**
005	3/32	X	7/32	X	1/16	.101	.005			2.57	0.13			00257178-*-**
006	1/8	X	1/4	X	1/16	.114	.005			2.90	0.13			00290178-*-**
007	5/32	X	9/32	X	1/16	.145	.005			3.68	0.13			00368178-*-**
008	3/16	X	5/16	X	1/16	.176	.005			4.47	0.13			00447178-*-**
009	7/32	X	11/32	X	1/16	.208	.005			5.28	0.13			00528178-*-**
010	1/4	X	3/8	X	1/16	.239	.005			6.07	0.13			00607178-*-**
011	5/16	X	7/16	X	1/16	.301	.005			7.65	0.13			00765178-*-**
012	3/8	X	1/2	X	1/16	.364	.005			9.25	0.13			00925178-*-**
013	7/16	X	9/16	X	1/16	.426	.005			10.82	0.13			01082178-*-**
014	1/2	X	5/8	X	1/16	.489	.005			12.42	0.13			01242178-*-**
015	9/16	X	11/16	X	1/16	.551	.007			14.00	0.18			01400178-*-**
016	5/8	X	3/4	X	1/16	.614	.009			15.60	0.23			01560178-*-**
017	11/16	X	13/16	X	1/16	.676	.009			17.17	0.23			01717178-*-**
018	3/4	X	7/8	X	1/16	.739	.009			18.77	0.23			01877178-*-**
019	13/16	X	15/16	X	1/16	.801	.009			20.35	0.23			02035178-*-**
020	7/8	X	1	X	1/16	.864	.009			21.95	0.23			02195178-*-**
021	15/16	X	1 1/16	X	1/16	.926	.009			23.52	0.23			02352178-*-**
022	1	X	1 1/8	X	1/16	.989	.010			25.12	0.25			02512178-*-**
023	1 1/16	X	1 3/16	X	1/16	1.051	.010			26.70	0.25			02670178-*-**
024	1 1/8	X	1 1/4	X	1/16	1.114	.010			28.30	0.25			02830178-*-**
025	1 3/16	X	1 5/16	X	1/16	1.176	.011			29.87	0.28			02987178-*-**
026	1 1/4	X	1 3/8	X	1/16	1.239	.011			31.47	0.28			03147178-*-**
027	1 5/16	X	1 7/16	X	1/16	1.301	.011			33.05	0.28			03305178-*-**
028	1 3/8	X	1 1/2	X	1/16	1.364	.013			34.65	0.33			03465178-*-**
029	1 1/2	X	1 5/8	X	1/16	1.489	.013			37.82	0.33			03782178-*-**
030	1 5/8	X	1 3/4	X	1/16	1.614	.013			41.00	0.33			04100178-*-**
031	1 3/4	X	1 7/8	X	1/16	1.739	.015			44.17	0.38			04417178-*-**
032	1 7/8	X	2	X	1/16	1.864	.015			47.35	0.38			04735178-*-**
033	2	X	2 1/8	X	1/16	1.989	.018			50.52	0.46			05052178-*-**
034	2 1/8	X	2 1/4	X	1/16	2.114	.018			53.70	0.46			05370178-*-**
035	2 1/4	X	2 3/8	X	1/16	2.239	.018			56.87	0.46			05687178-*-**
036	2 3/8	X	2 1/2	X	1/16	2.364	.018			60.05	0.46			06005178-*-**
037	2 1/2	X	2 5/8	X	1/16	2.489	.018			63.22	0.46			06322178-*-**
038	2 5/8	X	2 3/4	X	1/16	2.614	.020			66.40	0.51			06640178-*-**
039	2 3/4	X	2 7/8	X	1/16	2.739	.020			69.57	0.51			06957178-*-**
040	2 7/8	X	3	X	1/16	2.864	.020			72.75	0.51			07275178-*-**
041	3	X	3 1/8	X	1/16	2.989	.024			75.92	0.61			07592178-*-**
042	3 1/4	X	3 3/8	X	1/16	3.239	.024			82.27	0.61			08227178-*-**
043	3 1/2	X	3 5/8	X	1/16	3.489	.024			88.62	0.61			08862178-*-**
044	3 3/4	X	3 7/8	X	1/16	3.739	.027			94.97	0.69			09497178-*-**
045	4	X	4 1/8	X	1/16	3.989	.027			101.32	0.69			10132178-*-**
046	4 1/4	X	4 3/8	X	1/16	4.239	.027			107.67	0.76			10767178-*-**
047	4 1/2	X	4 5/8	X	1/16	4.489	.030			114.02	0.76			11402178-*-**
048	4 3/4	X	4 7/8	X	1/16	4.739	.030			120.37	0.76			12037178-*-**
049	5	X	5 1/8	X	1/16	4.989	.037			126.72	0.94			12672178-*-**
050	5 1/4	X	5 3/8	X	1/16	5.239	.037	.070	.003	133.07	0.94	1.78	0.08	13307178-*-**

* The first digit referse to material, according to Table 1
** The last digit referse to certification, according to Table 2

Size Number	Nominal Size					INCH STANDARD				METRIC STANDARD				Ordering Code
						Inside Diameter		Cross Section W		Inside Diameter		Cross Section W		
						IN.+	/-	IN.+	/-	MM.	+/-	MM.	+/-	
102	1/16	X	1/4	X	3/32	.049	.005	.103	.003	1.24	0.10	2.62	0.08	00124262-*-**
103	3/32	X	9/32	X	3/32	.081	.005			2.06	0.13			00206262-*-**
104	1/8	X	5/16	X	3/32	.112	.005			2.84	0.13			00284262-*-**
105	5/32	X	11/32	X	3/32	.143	.005			3.63	0.13			00363262-*-**
106	3/16	X	3/8	X	3/32	.174	.005			4.42	0.13			00442262-*-**
107	7/32	X	13/32	X	3/32	.206	.005			5.23	0.13			00523262-*-**
108	1/4	X	7/16	X	3/32	.237	.005			6.02	0.13			00602262-*-**
109	5/16	X	1/2	X	3/32	.299	.005			7.59	0.13			00759262-*-**
110	3/8	X	9/16	X	3/32	.362	.005			9.19	0.13			00919262-*-**
111	7/16	X	5/8	X	3/32	.424	.005			10.77	0.13			01077262-*-**
112	1/2	X	11/16	X	3/32	.487	.007			12.37	0.13			01237262-*-**
113	9/16	X	3/4	X	3/32	.549	.009			13.94	0.18			01394262-*-**
114	5/8	X	13/16	X	3/32	.612	.009			15.54	0.23			01554262-*-**
115	11/16	X	7/8	X	3/32	.674	.009			17.12	0.23			01712262-*-**
116	3/4	X	15/16	X	3/32	.737	.009			18.72	0.23			01872262-*-**
117	13/16	X	1	X	3/32	.799	.010			20.29	0.25			02029262-*-**
118	7/8	X	1 1/16	X	3/32	.862	.010			21.89	0.25			02189262-*-**
119	15/16	X	1 1/8	X	3/32	.924	.010			23.47	0.25			02347262-*-**
120	1	X	1 3/16	X	3/32	.987	.010			25.07	0.25			02507262-*-**
121	1 1/16	X	1 1/4	X	3/32	1.049	.010			26.64	0.25			02664262-*-**
122	1 1/8	X	1 5/16	X	3/32	1.112	.010			28.24	0.25			02824262-*-**
123	1 3/16	X	1 3/8	X	3/32	1.174	.012			29.82	0.30			02982262-*-**
124	1 1/4	X	1 7/16	X	3/32	1.237	.012			31.42	0.30			03142262-*-**
125	1 5/16	X	1 1/2	X	3/32	1.299	.012			32.99	0.30			03299262-*-**
126	1 3/8	X	1 9/16	X	3/32	1.362	.012			34.59	0.30			03459262-*-**
127	1 7/16	X	1 5/8	X	3/32	1.424	.012			36.17	0.30			03617262-*-**
128	1 1/2	X	1 11/16	X	3/32	1.487	.012			37.77	0.30			03777262-*-**
129	1 9/16	X	1 3/4	X	3/32	1.549	.015			39.34	0.38			03934262-*-**
130	1 5/8	X	1 13/16	X	3/32	1.612	.015			40.94	0.38			04094262-*-**
131	1 11/16	X	1 7/8	X	3/32	1.674	.015			42.52	0.38			04252262-*-**
132	1 3/4	X	1 15/16	X	3/32	1.737	.015			44.12	0.38			04412262-*-**
133	1 13/16	X	2	X	3/32	1.799	.015			45.69	0.38			04569262-*-**
134	1 7/8	X	2 1/16	X	3/32	1.862	.015			47.29	0.38			04729262-*-**
135	1 15/16	X	2 1/8	X	3/32	1.925	.017			48.90	0.43			04890262-*-**
136	2	X	2 3/16	X	3/32	1.987	.017			50.47	0.43			05047262-*-**
137	2 1/16	X	2 1/4	X	3/32	2.050	.017			52.07	0.43			05207262-*-**
138	2 1/8	X	2 5/16	X	3/32	2.112	.017			53.64	0.43			05364262-*-**
139	2 3/16	X	2 3/8	X	3/32	2.175	.017			55.25	0.43			05525262-*-**
140	2 1/4	X	2 7/16	X	3/32	2.237	.017			56.82	0.43			05682262-*-**
141	2 5/16	X	2 1/2	X	3/32	2.300	.020			58.42	0.51			05842262-*-**
142	2 3/8	X	2 9/16	X	3/32	2.362	.020			59.99	0.51			05999262-*-**
143	2 7/16	X	2 5/8	X	3/32	2.425	.020			61.60	0.51			06160262-*-**
144	2 1/2	X	2 11/16	X	3/32	2.487	.020			63.17	0.51			06317262-*-**
145	2 9/16	X	2 3/4	X	3/32	2.550	.020			64.77	0.51			06477262-*-**
146	2 5/8	X	2 13/16	X	3/32	2.612	.020			66.34	0.51			06634262-*-**
147	2 11/16	X	2 7/8	X	3/32	2.675	.022			67.95	0.56			06795262-*-**
148	2 3/4	X	2 15/16	X	3/32	2.737	.022			69.52	0.56			06952262-*-**
149	2 13/16	X	3	X	3/32	2.800	.022			71.12	0.56			07112262-*-**
150	2 7/8	X	3 1/16	X	3/32	2.862	.022			72.69	0.56			07269262-*-**
151	3	X	3 3/16	X	3/32	2.987	.024			75.87	0.61			07587262-*-**
152	3 1/4	X	3 7/16	X	3/32	3.237	.024	.103	.003	82.22	0.61	2.62	0.08	08222262-*-**

* The first digit referse to material, according to Table 1
** The last digit referse to certification, according to Table 2

Size Number	Nominal Size					INCH STANDARD				METRIC STANDARD				Ordering Code
						Inside Diameter		Cross Section W		Inside Diameter		Cross Section W		
						IN.+	/-	IN.+	/-	MM.	+/-	MM.	+/-	
153	3 1/2	X	3 11/16	X	3/32	3.737	.024	.103	.003	88.57	0.61	2.62	0.08	08857262-*-**
154	3 3/4	X	3 15/16	X	3/32	3.987	.028			94.92	0.71			09492262-*-**
155	4	X	4 3/16	X	3/32	4.237	.028			101.27	0.71			10127262-*-**
156	4 1/4	X	4 7/16	X	3/32	4.487	.030			107.62	0.76			10762262-*-**
157	4 1/2	X	4 11/16	X	3/32	4.737	.030			113.97	0.76			11397262-*-**
158	4 3/4	X	4 15/16	X	3/32	4.987	.030			120.32	0.76			12032262-*-**
159	5	X	5 3/16	X	3/32	5.237	.035			126.67	0.89			12667262-*-**
160	5 1/4	X	5 7/16	X	3/32	3.487	.035			133.02	0.89			13302262-*-**
161	5 1/2	X	5 11/16	X	3/32	5.487	.035			139.37	0.89			13937262-*-**
162	5 3/4	X	5 15/16	X	3/32	5.737	.035			145.72	0.89			14572262-*-**
163	6	X	6 3/16	X	3/32	5.987	.040			152.07	0.89			15207262-*-**
164	6 1/4	X	6 7/16	X	3/32	6.237	.040			158.42	1.02			15842262-*-**
165	6 1/2	X	6 11/16	X	3/32	6.487	.040			164.77	1.02			16477262-*-**
166	6 3/4	X	6 15/16	X	3/32	6.737	.040			171.12	1.02			17112262-*-**
167	7	X	7 3/16	X	3/32	6.987	.040			177.47	1.02			17747262-*-**
168	7 1/4	X	7 7/16	X	3/32	7.237	.045			183.82	1.14			18382262-*-**
169	7 1/2	X	7 11/16	X	3/32	7.487	.045			190.17	1.14			19017262-*-**
170	7 3/4	X	7 15/16	X	3/32	7.737	.045			196.54	1.14			19654262-*-**
171	8	X	8 3/16	X	3/32	7.987	.045			202.87	1.14			20287262-*-**
172	8 1/4	X	8 7/16	X	3/32	8.237	.050			209.22	1.27			20922262-*-**
173	8 1/2	X	8 11/16	X	3/32	8.487	.050			215.57	1.27			21557262-*-**
174	8 3/4	X	8 15/16	X	3/32	8.737	.050			221.92	1.27			22192262-*-**
175	9	X	9 3/16	X	3/32	8.987	.050			228.27	1.27			22827262-*-**
176	9 1/4	X	9 7/16	X	3/32	9.237	.055			234.62	1.40			23462262-*-**
177	9 1/2	X	9 11/16	X	3/32	9.487	.055			240.97	1.40			24097262-*-**
178	9 3/4	X	9 15/16	X	3/32	9.737	.055	.103	.003	247.32	1.40	2.62	0.08	24732262-*-**
201	3/16	X	7/16	X	1/8	.171	.007	.139	.004	4.34	0.18	3.53	0.10	00434353-*-**
202	1/4	X	1/2	X	1/8	.234	.007			5.94	0.18			00594353-*-**
203	5/16	X	9/16	X	1/8	.296	.007			7.52	0.18			00752353-*-**
204	3/8	X	5/8	X	1/8	.359	.007			9.12	0.18			00912353-*-**
205	7/16	X	11/16	X	1/8	.421	.007			10.69	0.18			01069353-*-**
206	1/2	X	3/4	X	1/8	.484	.007			12.29	0.18			01229353-*-**
207	9/16	X	13/16	X	1/8	.546	.007			13.87	0.18			01387353-*-**
208	5/8	X	7/8	X	1/8	.609	.009			15.47	0.23			01547353-*-**
209	11/16	X	15/16	X	1/8	.671	.009			17.04	0.23			01704353-*-**
210	3/4	X	1	X	1/8	.734	.010			18.66	0.25			01866353-*-**
211	13/16	X	1 1/16	X	1/8	.796	.010			20.22	0.25			02022353-*-**
212	7/8	X	1 1/8	X	1/8	.859	.010			21.82	0.25			02182353-*-**
213	15/16	X	1 3/16	X	1/8	.921	.010			23.40	0.25			02340353-*-**
214	1	X	1 1/4	X	1/8	.984	.010			25.00	0.25			02500353-*-**
215	1 1/16	X	1 5/16	X	1/8	1.046	.010			26.58	0.25			02658353-*-**
216	1 1/8	X	1 3/8	X	1/8	1.109	.012			28.17	0.30			02817353-*-**
217	1 3/16	X	1 7/16	X	1/8	1.171	.012			29.75	0.30			02975353-*-**
218	1 1/4	X	1 1/2	X	1/8	1.234	.012			31.35	0.30			03135353-*-**
219	1 5/16	X	1 9/16	X	1/8	1.296	.012			32.92	0.30			03292353-*-**
220	1 3/8	X	1 5/8	X	1/8	1.359	.012			34.52	0.30			03452353-*-**
221	1 7/16	X	1 11/16	X	1/8	1.421	.012			36.09	0.30			03609353-*-**
222	1 1/2	X	1 3/4	X	1/8	1.484	.015			37.70	0.38			03770353-*-**
223	1 5/8	X	1 7/8	X	1/8	1.609	.015			40.87	0.38			04087353-*-**
224	1 3/4	X	2	X	1/8	1.734	.015	.139	.004	44.04	0.38	3.53	0.10	04404353-*-**

* The first digit referse to material, according to Table 1
** The last digit referse to certification, according to Table 2

Size Number	Nominal Size					INCH STANDARD				METRIC STANDARD				Ordering Code
						Inside Diameter		Cross Section W		Inside Diameter		Cross Section W		
						IN.+	/-	IN.+	/-	MM.	+/-	MM.	+/-	
225	1 7/8	X	2 1/8	X	1/8	1.859	.035	.139	.004	47.22	0.46	3.53	0.10	04722353-*-**
226	2	X	2 1/4	X	1/8	1.984	.035			50.39	0.46			05039353-*-**
227	2 1/8	X	2 3/8	X	1/8	2.109	.035			53.57	0.46			05357353-*-**
228	2 1/4	X	2 1/2	X	1/8	2.234	.035			56.74	0.51			05674353-*-**
229	2 3/8	X	2 5/8	X	1/8	2.359	.055			59.92	0.51			05992353-*-**
230	2 1/2	X	2 3/4	X	1/8	2.484	.020			63.09	0.51			06309353-*-**
231	2 5/8	X	2 7/8	X	1/8	2.609	.018			66.27	0.51			06627353-*-**
232	2 3/4	X	3	X	1/8	2.734	.018			69.44	0.61			06944353-*-**
233	2 7/8	X	3 1/8	X	1/8	2.859	.018			72.62	0.61			07262353-*-**
234	3	X	3 1/4	X	1/8	2.984	.020			75.79	0.61			07579353-*-**
235	3 1/8	X	3 3/8	X	1/8	3.109	.020			78.97	0.61			07897353-*-**
236	3 1/4	X	3 1/2	X	1/8	3.234	.020			82.14	0.61			08214353-*-**
237	3 3/8	X	3 5/8	X	1/8	3.359	.024			85.32	0.61			08532353-*-**
238	3 1/2	X	3 3/4	X	1/8	3.484	.024			88.49	0.61			08849353-*-**
239	3 5/8	X	3 7/8	X	1/8	3.609	.024			91.67	0.71			09167353-*-**
240	3 3/4	X	4	X	1/8	3.734	.024			94.84	0.71			09484353-*-**
241	3 7/8	X	4 1/8	X	1/8	3.859	.024			98.02	0.71			09802353-*-**
242	4	X	4 1/4	X	1/8	3.984	.024			101.19	0.71			10119353-*-**
243	4 1/8	X	4 3/8	X	1/8	4.109	.024			104.37	0.71			10437353-*-**
244	4 1/4	X	4 1/2	X	1/8	4.234	.028			107.54	0.76			10754353-*-**
245	4 3/8	X	4 5/8	X	1/8	4.359	.028			110.72	0.76			11072353-*-**
246	4 1/2	X	4 3/4	X	1/8	4.484	.028			113.89	0.76			11389353-*-**
247	4 5/8	X	4 7/8	X	1/8	4.609	.028			117.07	0.76			11707353-*-**
248	4 3/4	X	5	X	1/8	4.734	.028			120.24	0.76			12024353-*-**
249	4 7/8	X	5 1/8	X	1/8	4.859	.030			123.42	0.89			12342353-*-**
250	5	X	5 1/4	X	1/8	4.984	.030			126.59	0.89			12659353-*-**
251	5 1/8	X	5 3/8	X	1/8	5.109	.030			129.77	0.89			12977353-*-**
252	5 1/4	X	5 1/2	X	1/8	5.234	.030			132.94	0.89			13294353-*-**
253	5 3/8	X	5 5/8	X	1/8	5.359	.030			136.12	0.89			13612353-*-**
254	5 1/2	X	5 3/4	X	1/8	5.484	.035			139.29	0.89			13929353-*-**
255	5 5/8	X	5 7/8	X	1/8	5.609	.035			142.47	0.89			14247353-*-**
256	5 3/4	X	6	X	1/8	5.734	.035			145.64	0.89			14564353-*-**
257	5 7/8	X	6 1/8	X	1/8	5.859	.035			148.82	0.89			14882353-*-**
258	6	X	6 1/4	X	1/8	5.984	.035			151.99	0.89			15199353-*-**
259	6 1/4	X	6 1/2	X	1/8	6.234	.035			158.34	1.02			15834353-*-**
260	6 1/2	X	6 3/4	X	1/8	6.484	.040			164.69	1.02			16469353-*-**
261	6 3/4	X	7	X	1/8	6.734	.040			171.04	1.02			17104353-*-**
262	7	X	7 1/4	X	1/8	6.984	.040			177.39	1.02			17739353-*-**
263	7 1/4	X	7 1/2	X	1/8	7.234	.040			183.74	1.14			18374353-*-**
264	7 1/2	X	7 3/4	X	1/8	7.484	.045			190.09	1.14			19009353-*-**
265	7 3/4	X	8	X	1/8	7.734	.045			196.44	1.14			19644353-*-**
266	8	X	8 1/4	X	1/8	7.984	.045			202.79	1.14			20279353-*-**
267	8 1/4	X	8 1/2	X	1/8	8.234	.045			209.14	1.27			20914353-*-**
268	8 1/2	X	8 3/4	X	1/8	8.484	.050			215.49	1.27			21549353-*-**
269	8 3/4	X	9	X	1/8	8.734	.050			221.84	1.27			22184353-*-**
270	9	X	9 1/4	X	1/8	8.984	.050			228.19	1.27			22819353-*-**
271	9 1/4	X	9 1/2	X	1/8	9.234	.050			234.54	1.40			23454353-*-**
272	9 1/2	X	9 3/4	X	1/8	9.484	.055			240.89	1.40			24089353-*-**
273	9 3/4	X	10	X	1/8	9.734	.055			247.24	1.40			24724353-*-**
274	10	X	10 1/4	X	1/8	9.984	.055			253.59	1.40			25359353-*-**
275	10 1/2	X	10 3/4	X	1/8	10.484	.055	.139	.004	266.29	1.40	3.53	0.10	26629353-*-**

* The first digit referse to material, according to Table 1
** The last digit referse to certification, according to Table 2

Size Number	Nominal Size					INCH STANDARD				METRIC STANDARD				Ordering Code
						Inside Diameter		Cross Section W		Inside Diameter		Cross Section W		
						IN.+	/-	IN.+	/-	MM.	+/-	MM.	+/-	
276	11	X	11 1/4	X	1/8	10.984	.065	.139	.004	278.99	1.65	3.53	0.10	27899353-*-**
277	11 1/2	X	11 3/4	X	1/8	11.484	.065			291.69	1.65			29169353-*-**
278	12	X	12 1/4	X	1/8	11.984	.065			304.39	1.65			30439353-*-**
279	13	X	13 1/4	X	1/8	12.984	.065			329.79	1.65			32979353-*-**
280	14	X	14 1/4	X	1/8	13.984	.065			355.19	1.65			35519353-*-**
281	15	X	15 1/4	X	1/8	14.984	.065			380.59	1.65			38059353-*-**
282	16	X	16 1/4	X	1/8	15.955	.075			405.26	1.90			40526353-*-**
283	17	X	17 1/4	X	1/8	16.955	.080			430.66	2.16			43066353-*-**
284	18	X	18 1/4	X	1/8	17.955	.085	.139	.004	456.06	2.42	3.53	0.10	45606353-*-**
309	7/16	X	13/16	X	3/16	.412	.005	.210	.005	10.46	0.13	5.33	0.13	01046533-*-**
310	1/2	X	7/8	X	3/16	.475	.005			12.07	0.13			01207533-*-**
311	9/16	X	15/16	X	3/16	.537	.007			13.64	0.18			01364533-*-**
312	5/8	X	1	X	3/16	.600	.009			15.25	0.23			01525533-*-**
313	11/16	X	1 1/16	X	3/16	.662	.009			16.81	0.23			01681533-*-**
314	3/4	X	1 1/8	X	3/16	.725	.010			18.42	0.25			01842533-*-**
315	13/16	X	1 3/16	X	3/16	.787	.010			19.99	0.25			01999533-*-**
316	7/8	X	1 1/4	X	3/16	.850	.010			21.59	0.25			02159533-*-**
317	15/16	X	1 5/16	X	3/16	.912	.010			23.16	0.25			02316533-*-**
318	1	X	1 3/8	X	3/16	.975	.010			24.77	0.25			02477533-*-**
319	1 1/16	X	1 7/16	X	3/16	1.037	.010			26.34	0.25			02634533-*-**
320	1 1/8	X	1 1/2	X	3/16	1.100	.012			27.94	0.30			02794533-*-**
321	1 3/16	X	1 9/16	X	3/16	1.162	.012			29.51	0.30			02951533-*-**
322	1 1/4	X	1 5/8	X	3/16	1.225	.012			31.12	0.30			03112533-*-**
323	1 5/16	X	1 11/16	X	3/16	1.287	.012			32.69	0.30			03269533-*-**
324	1 3/8	X	1 3/4	X	3/16	1.350	.012			34.29	0.30			03429533-*-**
325	1 1/2	X	1 7/8	X	3/16	1.475	.015			37.47	0.38			03747533-*-**
326	1 5/8	X	2	X	3/16	1.600	.015			40.64	0.38			04064533-*-**
327	1 3/4	X	2 1/8	X	3/16	1.725	.015			43.82	0.38			04382533-*-**
328	1 7/8	X	2 1/4	X	3/16	1.850	.015			46.99	0.38			04699533-*-**
329	2	X	2 3/8	X	3/16	1.975	.018			50.17	0.46			05017533-*-**
330	2 1/8	X	2 1/2	X	3/16	2.100	.018			53.34	0.46			05334533-*-**
331	2 1/4	X	2 5/8	X	3/16	2.225	.018			56.52	0.46			05652533-*-**
332	2 3/8	X	2 3/4	X	3/16	2.350	.018			59.69	0.46			05969533-*-**
333	2 1/2	X	2 7/8	X	3/16	2.475	.020			62.87	0.51			06287533-*-**
334	2 5/8	X	3	X	3/16	2.600	.020			66.04	0.51			06604533-*-**
335	2 3/4	X	3 1/8	X	3/16	2.725	.020			69.22	0.51			06922533-*-**
336	2 7/8	X	3 1/4	X	3/16	2.850	.020			72.39	0.51			07239533-*-**
337	3	X	3 3/8	X	3/16	2.975	.024			75.57	0.61			07557533-*-**
338	3 1/8	X	3 1/2	X	3/16	3.100	.024			78.74	0.61			07874533-*-**
339	3 1/4	X	3 5/8	X	3/16	3.225	.024			81.92	0.61			08192533-*-**
340	3 3/8	X	3 3/4	X	3/16	3.350	.024			85.09	0.61			08509533-*-**
341	3 1/2	X	3 7/8	X	3/16	3.475	.024			88.27	0.61			08827533-*-**
342	3 5/8	X	4	X	3/16	3.600	.028			91.44	0.71			09144533-*-**
343	3 3/4	X	4 1/8	X	3/16	3.725	.028			94.62	0.71			09462533-*-**
344	3 7/8	X	4 1/4	X	3/16	3.850	.028			97.79	0.71			09779533-*-**
345	4	X	4 3/8	X	3/16	3.975	.028			100.97	0.71			10097533-*-**
346	4 1/8	X	4 1/2	X	3/16	4.100	.028			104.14	0.71			10414533-*-**
347	4 1/4	X	4 5/8	X	3/16	4.225	.030			107.32	0.76			10732533-*-**
348	4 3/8	X	4 3/4	X	3/16	4.350	.030			110.49	0.76			11049533-*-**
349	4 1/2	X	4 7/8	X	3/16	4.475	.030	.210	.005	113.67	0.76	5.33	0.13	11367533-*-**

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Size Number	Nominal Size					INCH STANDARD				METRIC STANDARD				Ordering Code
						Inside Diameter		Cross Section W		Inside Diameter		Cross Section W		
						IN.+	/-	IN.+	/-	MM.	+/-	MM.	+/-	
350	4 5/8	X	5	X	3/16	4.600	.030	.210	.005	116.84	0.76	5.33	0.13	11684533-*-**
351	4 3/4	X	5 1/8	X	3/16	4.725	.030			120.02	0.76			12002533-*-**
352	4 7/8	X	5 1/4	X	3/16	4.850	.030			123.19	0.76			12319533-*-**
353	5	X	5 3/8	X	3/16	4.975	.037			126.37	0.94			12637533-*-**
354	5 1/8	X	5 1/2	X	3/16	5.100	.037			129.54	0.94			12954533-*-**
355	5 1/4	X	5 5/8	X	3/16	5.225	.037			132.72	0.94			13272533-*-**
356	5 3/8	X	5 3/4	X	3/16	5.350	.037			135.89	0.94			13589533-*-**
357	5 1/2	X	5 7/8	X	3/16	5.475	.037			139.07	0.94			13907533-*-**
358	5 5/8	X	6	X	3/16	5.600	.037			142.24	0.94			14224533-*-**
359	5 3/4	X	6 1/8	X	3/16	5.725	.037			145.42	0.94			14542533-*-**
360	5 7/8	X	6 1/4	X	3/16	5.850	.037			148.49	0.94			14849533-*-**
361	6	X	6 3/8	X	3/16	5.975	.037			151.77	0.94			15177533-*-**
362	6 1/4	X	6 5/8	X	3/16	6.225	.040			158.12	1.02			15812533-*-**
363	6 1/2	X	6 7/8	X	3/16	6.475	.040			164.47	1.02			16447533-*-**
364	6 3/4	X	7 1/8	X	3/16	6.725	.040			170.82	1.02			17082533-*-**
365	7	X	7 3/8	X	3/16	6.975	.040			177.17	1.02			17717533-*-**
366	7 1/4	X	7 5/8	X	3/16	7.225	.045			183.52	1.14			18352533-*-**
367	7 1/2	X	7 7/8	X	3/16	7.475	.045			189.87	1.14			18987533-*-**
368	7 3/4	X	8 1/8	X	3/16	7.725	.045			196.22	1.14			19622533-*-**
369	8	X	8 3/8	X	3/16	7.975	.045			202.57	1.14			20257533-*-**
370	8 1/4	X	8 5/8	X	3/16	8.225	.050			208.92	1.30			20892533-*-**
371	8 1/2	X	8 7/8	X	3/16	8.475	.050			215.27	1.30			21527533-*-**
372	8 3/4	X	9 1/8	X	3/16	8.725	.050			221.65	1.30			22165533-*-**
373	9	X	9 3/8	X	3/16	8.975	.050			227.97	1.30			22797533-*-**
374	9 1/4	X	9 5/8	X	3/16	9.225	.055			234.32	1.40			23432533-*-**
375	9 1/2	X	9 7/8	X	3/16	9.475	.055			240.67	1.40			24067533-*-**
376	9 3/4	X	10 1/8	X	3/16	9.725	.055			247.02	1.40			24702533-*-**
377	10	X	10 3/8	X	3/16	9.975	.055			253.37	1.40			25337533-*-**
378	10 1/2	X	10 7/8	X	3/16	10.475	.060			266.07	1.52			26607533-*-**
379	11	X	11 3/8	X	3/16	10.975	.060			278.77	1.52			27877533-*-**
380	11 1/2	X	11 7/8	X	3/16	11.475	.065			291.47	1.65			29147533-*-**
381	12	X	12 3/8	X	3/16	11.975	.065			304.17	1.65			30417533-*-**
382	13	X	13 3/8	X	3/16	12.975	.065			329.57	1.65			32957533-*-**
383	14	X	14 3/8	X	3/16	13.975	.070			354.97	1.78			35497533-*-**
384	15	X	15 3/8	X	3/16	14.975	.070			380.37	1.78			38037533-*-**
385	16	X	16 3/8	X	3/16	15.955	.075			405.26	1.90			40526533-*-**
386	17	X	17 3/8	X	3/16	16.955	.080			430.66	2.03			43066533-*-**
387	18	X	18 3/8	X	3/16	17.955	.085			456.06	2.16			45606533-*-**
388	19	X	19 3/8	X	3/16	18.952	.090			481.38	2.29			48138533-*-**
389	20	X	20 3/8	X	3/16	19.952	.090			506.78	2.41			50678533-*-**
390	21	X	21 3/8	X	3/16	20.952	.090			532.18	2.41			53218533-*-**
391	22	X	22 3/8	X	3/16	21.952	.100			557.58	2.55			55758533-*-**
392	23	X	23 3/8	X	3/16	22.940	.105			582.68	2.75			58268533-*-**
393	24	X	24 3/8	X	3/16	23.940	.110			608.08	2.80			60808533-*-**
394	25	X	25 3/8	X	3/16	24.940	.115			633.48	2.90			63348533-*-**
395	26	X	26 3/8	X	3/16	25.940	.120	.210	.005	658.88	3.05	5.33	0.13	65888533-*-**

* The first digit referse to material, according to Table 1
** The last digit referse to certification, according to Table 2

Size Number	Nominal Size					INCH STANDARD				METRIC STANDARD				Ordering Code
						Inside Diameter		Cross Section W		Inside Diameter		Cross Section W		
						IN.+	/-	IN.+	/-	MM.	+/-	MM.	+/-	
425	4 1/2X		5	X	1/4	4.475	.033	.275	.006	113.67	0.84	6.99	0.15	11367699-*-**
426	A 5/8X		5 1/8	X	1/4	4.600	.033			116.84	0.84			11684699-*-**
427	4 3/4X		5 1/4	X	1/4	4.725	.033			120.02	0.84			12002699-*-**
428	4 7/8X		5 3/8	X	1/4	4.850	.033			123.19	0.84			12319699-*-**
429	5X		5 1/2	X	1/4	4.975	.037			126.37	0.94			12637699-*-**
430	5 1/8X		5 5/8	X	1/4	5.100	.037			129.54	0.94			12954699-*-**
431	5 1/4X		5 3/4	X	1/4	5.225	.037			132.72	0.94			13272699-*-**
432	5 3/8X		5 7/8	X	1/4	5.350	.037			135.89	0.94			13589699-*-**
433	5 1/2X		6	X	1/4	5.475	.037			139.07	0.94			13907699-*-**
434	5 5/8X		6 1/8	X	1/4	5.600	.037			142.24	0.94			14224699-*-**
435	5 3/4X		6 1/4	X	1/4	5.725	.037			145.42	0.94			14542699-*-**
436	5 7/8X		6 3/8	X	1/4	5.850	.037			148.59	0.94			14859699-*-**
437	6X		6 1/2	X	1/4	5.975	.037			151.77	0.94			15177699-*-**
438	6 1/4X		6 3/4	X	1/4	6.225	.040			158.12	1.02			15812699-*-**
439	6 1/2X		7	X	1/4	6.475	.040			164.47	1.02			16447699-*-**
440	6 3/4X		7 1/4	X	1/4	6.725	.040			170.82	1.02			17082699-*-**
441	7X		7 1/2	X	1/4	6.975	.040			177.17	1.02			17717699-*-**
442	7 1/4X		7 3/4	X	1/4	7.225	.045			183.52	1.14			18352699-*-**
443	7 1/2X		8	X	1/4	7.475	.045			189.87	1.14			18987699-*-**
444	7 3/4X		8 1/4	X	1/4	7.725	.045			196.22	1.14			19622699-*-**
445	8X		8 1/2	X	1/4	7.975	.045			202.57	1.14			20257699-*-**
446	8 1/2X		9	X	1/4	8.475	.055			215.27	1.40			21527699-*-**
447	9X		9 1/2	X	1/4	8.975	.055			227.97	1.40			22797699-*-**
448	9 1/2X		10	X	1/4	9.475	.055			240.67	1.40			24067699-*-**
449	10	X	10 1/2	X	1/4	9.975	.055			253.37	1.40			25337699-*-**
450	10 1/2X		11	X	1/4	10.475	.060			266.07	1.52			26607699-*-**
451	11	X	11 1/2	X	1/4	10.975	.060			278.77	1.52			27877699-*-**
452	11 1/2X		12	X	1/4	11.475	.060			291.47	1.52			29147699-*-**
453	12	X	12 1/2	X	1/4	11.975	.060			304.17	1.52			30417699-*-**
454	12 1/2X		13	X	1/4	12.475	.060			316.87	1.52			31687699-*-**
455	13	X	13 1/2	X	1/4	12.975	.060			329.57	1.52			32957699-*-**
456	13 1/2X		14	X	1/4	13.475	.070			342.27	1.78			34227699-*-**
457	14	X	14 1/2	X	1/4	13.975	.070			354.97	1.78			35497699-*-**
458	14 1/2X		15	X	1/4	14.475	.070			367.67	1.78			36767699-*-**
459	15	X	15 1/2	X	1/4	14.975	.070			380.37	1.78			38037699-*-**
460	15 1/2X		16	X	1/4	15.475	.070			393.07	1.78			39307699-*-**
461	16	X	16 1/2	X	1/4	15.955	.075			405.26	1.90			40526699-*-**
462	16 1/2	X	17	X	1/4	16.455	.075			417.96	1.90			41796699-*-**
463	17	X	17 1/2	X	1/4	16.955	.080			430.66	2.05			43066699-*-**
464	17 1/2X		18	X	1/4	17.455	.085			443.36	2.15			44336699-*-**
465	18	X	18 1/2	X	1/4	17.955	.085			456.06	2.15			45606699-*-**
466	18 1/2X		19	X	1/4	18.455	.085			468.76	2.15			46876699-*-**
467	19	X	19 1/2	X	1/4	18.955	.090			481.46	2.29			48146699-*-**
468	19 1/2X		20	X	1/4	19.455	.090			494.16	2.29			49416699-*-**
469	20	X	20 1/2	X	1/4	19.955	.090			506.86	2.41			50686699-*-**
470	21	X	21 1/2	X	1/4	20.955	.090			532.26	2.41			53226699-*-**
471	22	X	22 1/2	X	1/4	21.955	.100			557.66	2.55			55766699-*-**
472	23	X	23 1/2	X	1/4	22.940	.105			582.68	2.65			58268699-*-**
473	24	X	24 1/2	X	1/4	23.940	.110			608.08	2.80			60808699-*-**
474	25	X	25 1/2	X	1/4	24.940	.115			633.48	2.90			63348699-*-**
475	26	X	26 1/2	X	1/4	25.940	.120	.275	.006	658.88	3.05	6.99	0.15	65888699-*-**

* The first digit referse to material, according to Table 1
** The last digit referse to certification, according to Table 2

Table 1

Materials	Ordering Code
EPDM BLACK	EB
EPDM WHITE	EW
NBR BLACK	NB
NBR WHITE	NW
FPM BLACK	VB
FPM WHITE	VW
SILICONE PEROXIDE WHITE	SW
SILICONE RED	SR
SILICONE PLATINUM	SC
ENCAPSULATE SILICONE	ES
ENCAPSULATE VITON	EN
TEFLON WHITE	TW

Table 2

CERTIFICATION FOR SILICONE	Ordering Code
GENERAL PURPOSE	00
SILICONE PEROXIDE FDA	01
SILICONE PLATINUM FDA	02
SILICONE PEROXIDE FDA CLASS VI	11
SILICONE PLATINUM FDA CLASS VI	22
CERTIFICATION FOR EPDM, NBR, FPM, TEFLON	**Ordering Code**
GENERAL PURPOSE	00
FDA	01
FDA CLASS VI	11

Ordering Example

Size Number	Material	Ordering Code
001	EPDM BLACK- FDA	000740102-EB-01

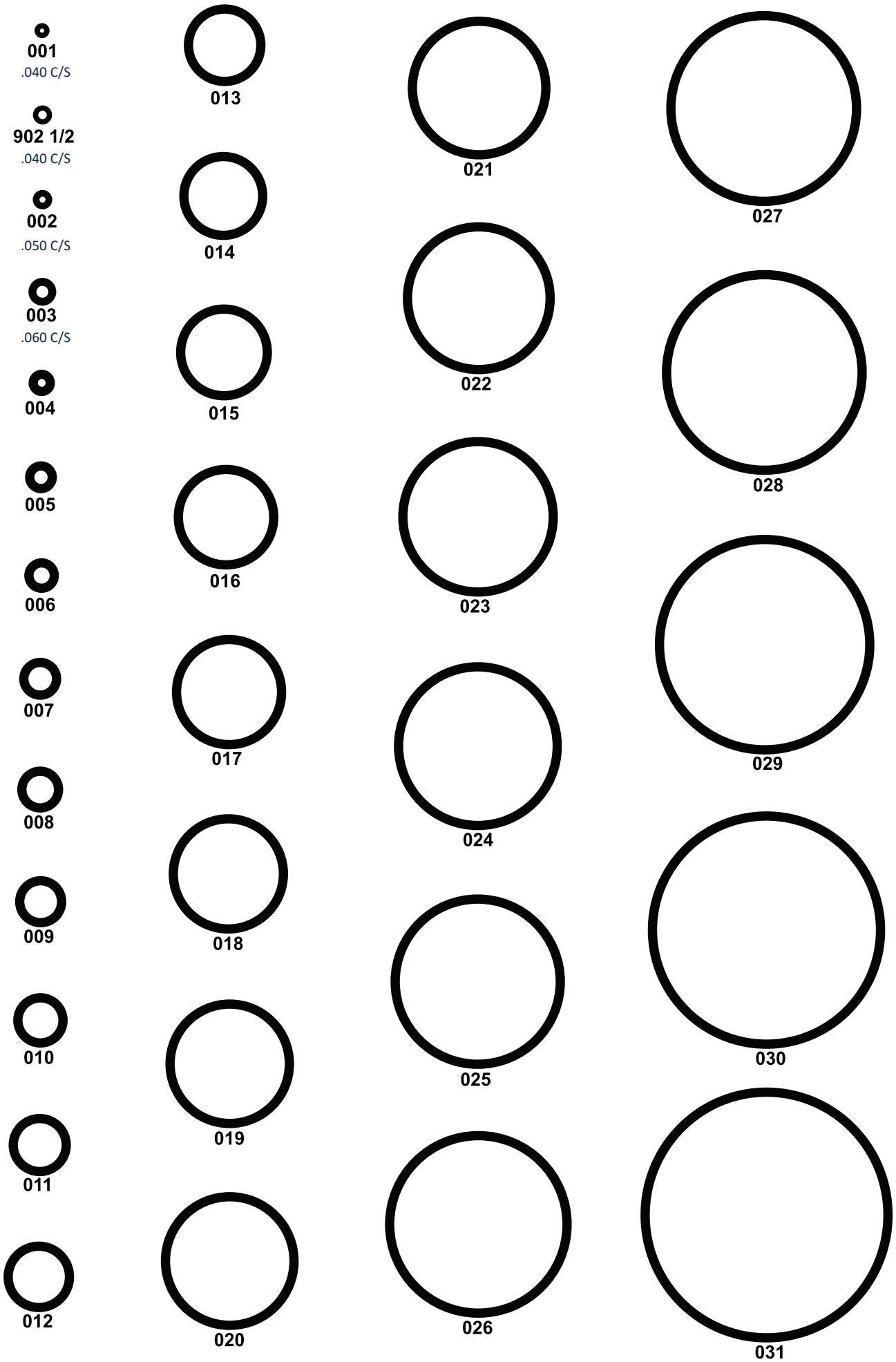
PERFORMANCE PROPERTY CHART

	Nitrile (Buna-N)	Ethylene-Propylene (EPDM)	Silicone	Fluoroelastomer (Viton™ A) 401C	Fluoroelastomer (Viton™ GF) 600S	Fluoroelastomer (Viton™ ETP) 600S	Teflon®	Silverback™	Kalrez®
Tensile Strength	Good	Good-Excellent	Good	Good-Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Electrical Properties	Poor	Excellent	Excellent	Good	Good	Good	Excellent	Excellent	Excellent
Weather Resistance	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Ozone Resistance	Poor	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Heat Resistance	Good (225°F) (107°C)	Excellent (275°F) (135°C)	Excellent (450°F) (232°C)	Excellent (450°F) (232°C)	Excellent (450°F) (232°C)	Excellent (450°F) (232°C)	Excellent (450°F) (232°C)	Excellent (450°F) (232°C)	Excellent (620°F) (327°C)
Cold Resistance	Good (-40°F) (-40°C)	Good Excellent (-55°F) (-48°C)	Excellent (-80°F) (-62°C)	Good (-2°F) (-18°C)	Good (18°F) (-8°C)	Good (10°F) (-12°C)	Excellent (-110°F) (-79°C)	Good (-20°F) (-28°C)	N/A
Steam Resistance	Excellent	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Tear Resistance	Good	Good	Good	Good	Good	Good	Excellent	Excellent	Good
Abraision Resistance	Good	Good Excellent	Good Excellent	Good	Excellent	Excellent	Excellent	Excellent	Good
Acid Resistance	Poor-Good	Good-Excellent	Good	Good	Excellent	Excellent	Excellent	Excellent	Excellent
Petroleum Oil Resistance	Excellent	Poor	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Flame Resistance	Poor	Poor	Poor	Good	Good	Good	Excellent	Excellent	Excellent
Vegetable Oil Resistance	Excellent	Good (most)	Good (inter-mittent)	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
3-A Compliant	Yes	Yes	Yes	Yes					

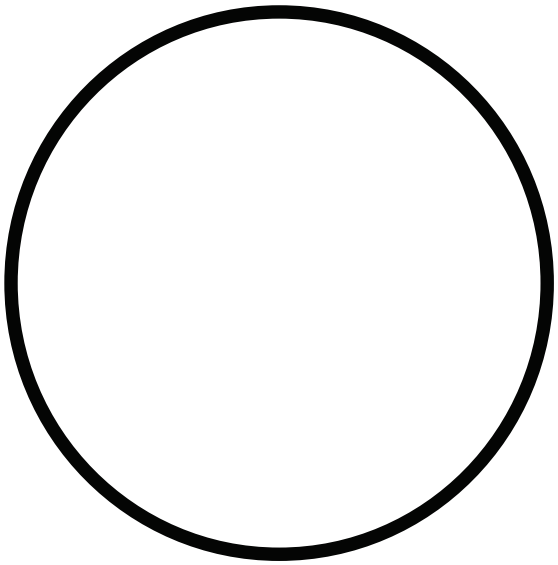
Buna-N is not recommended for use with CIP Sanitizing Agent OXONIA use EPDM or Silicone.
EPDM or Viton™ is recommended for ozone treated water.

All of the above compounds used in our production meet the criteria set forth by the FDA.

000 SERIES – .070 cross section



000 SERIES – .070 cross section



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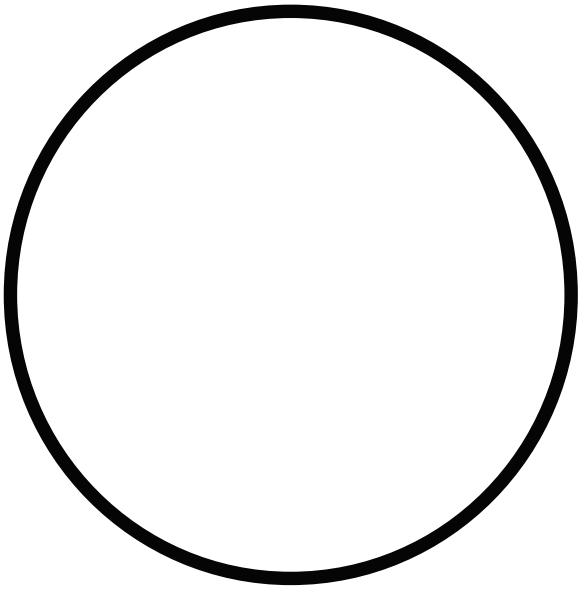

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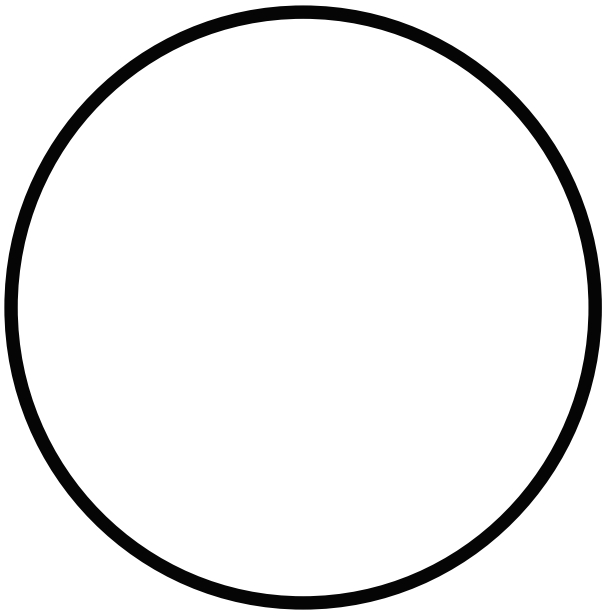

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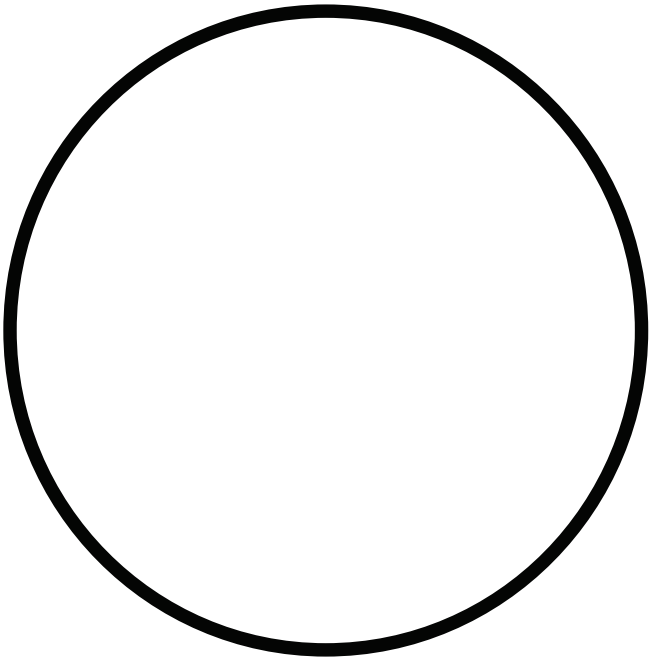

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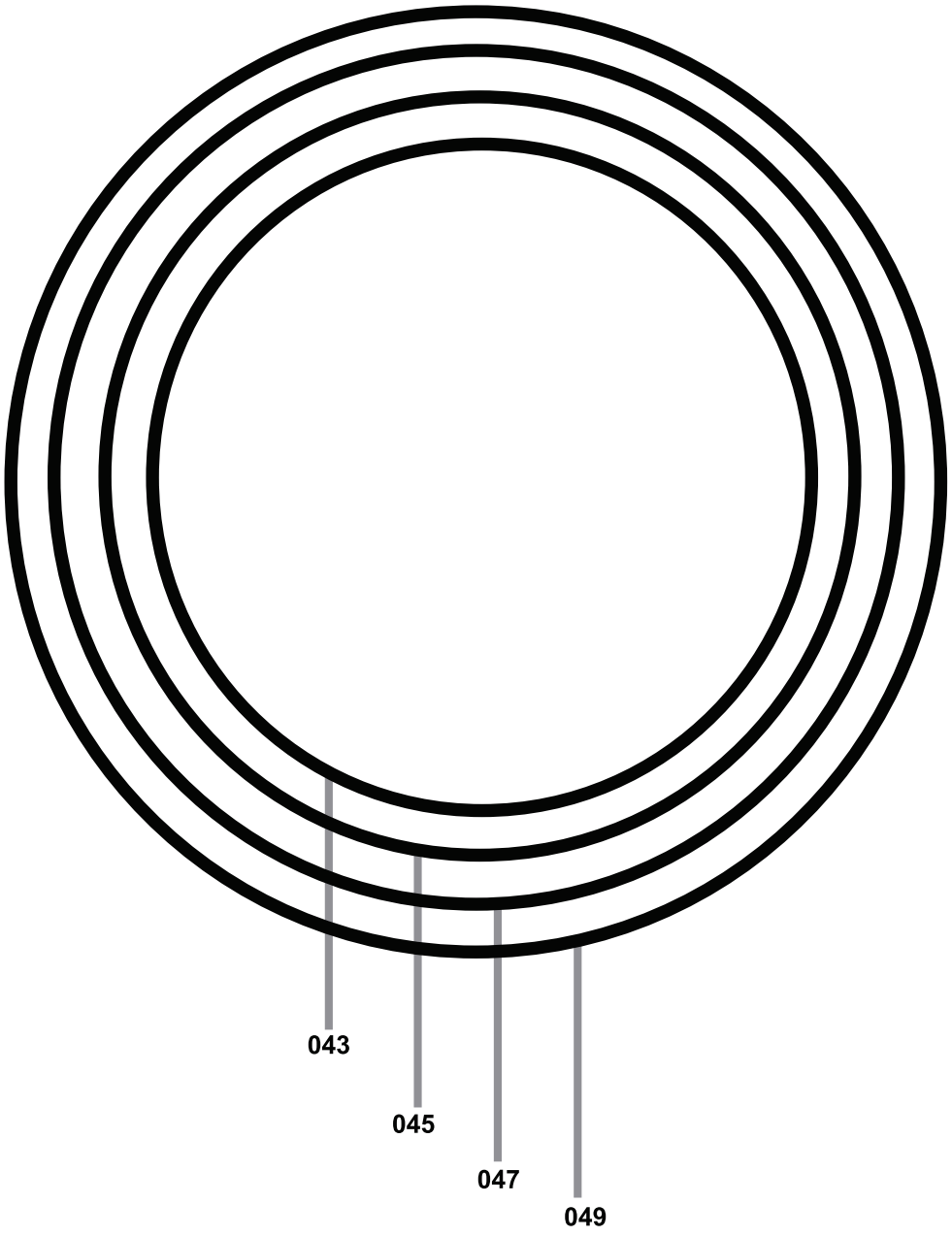
000 SERIES **043** **045** **047** **049**

000 SERIES IS SPACED IN TWO NUMBER INCREMENTS

000 SERIES – .070 cross section



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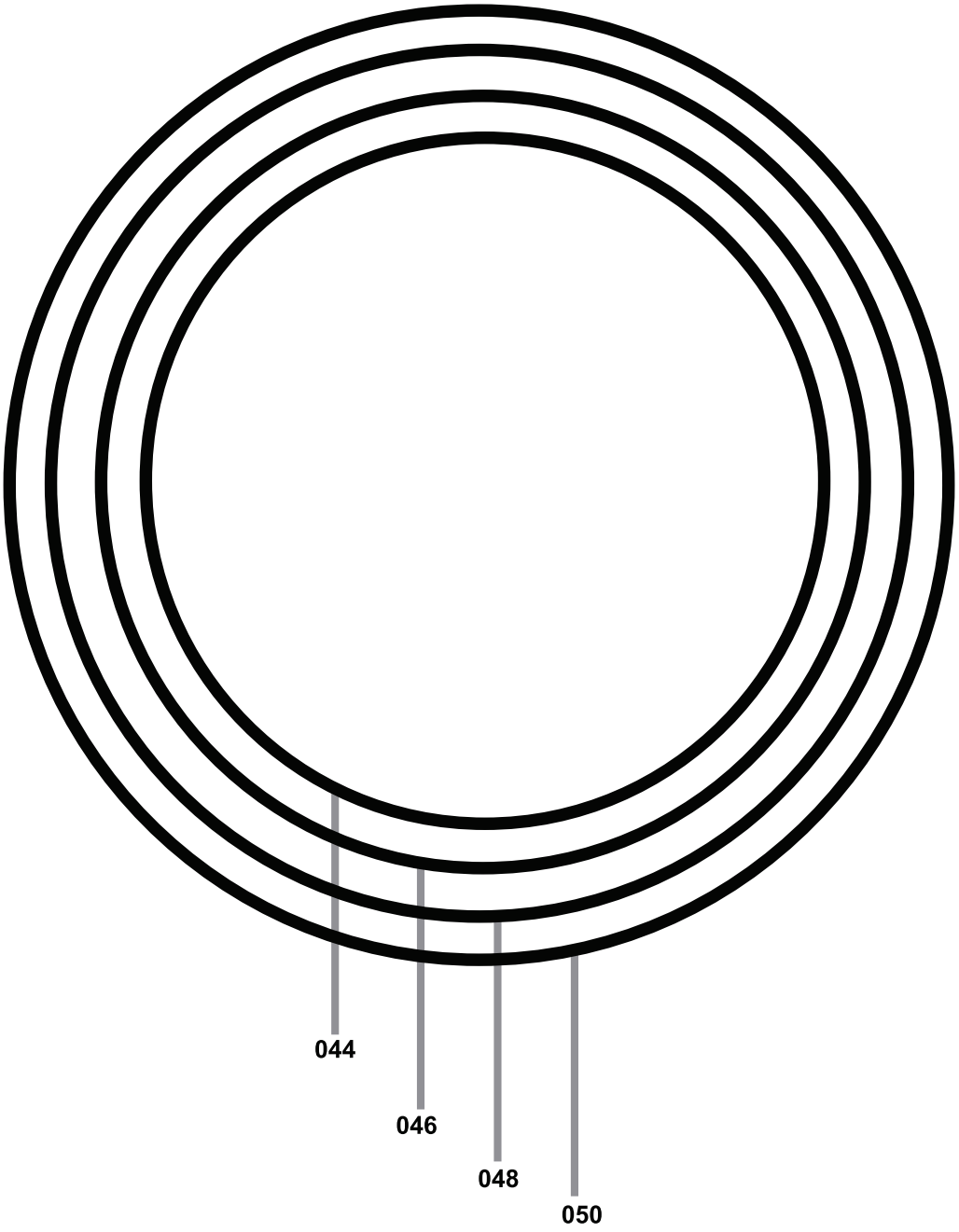
000 SERIES IS SPACED IN TWO NUMBER INCREMENTS



100 SERIES – .103 cross section

100 SERIES – .103 cross section

130

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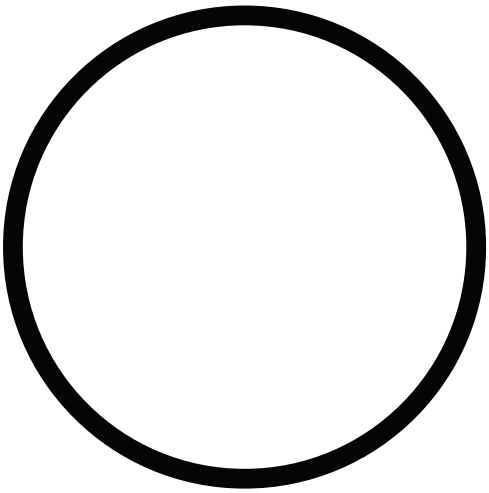
100 SERIES – .103 cross section



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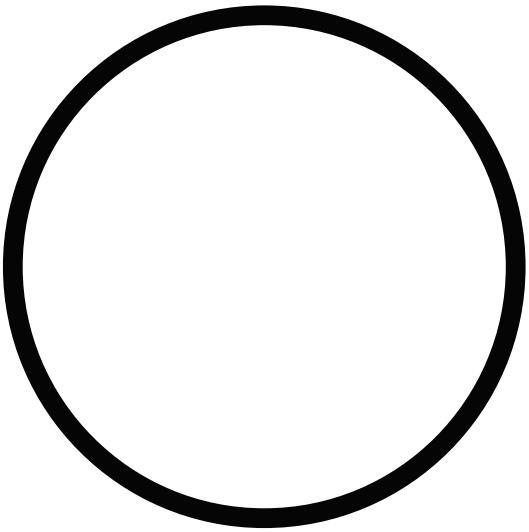

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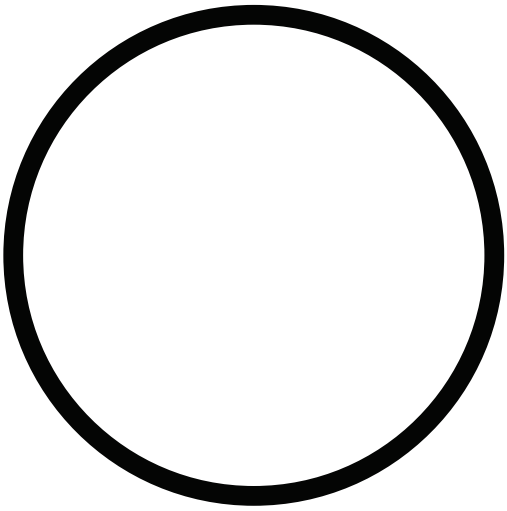

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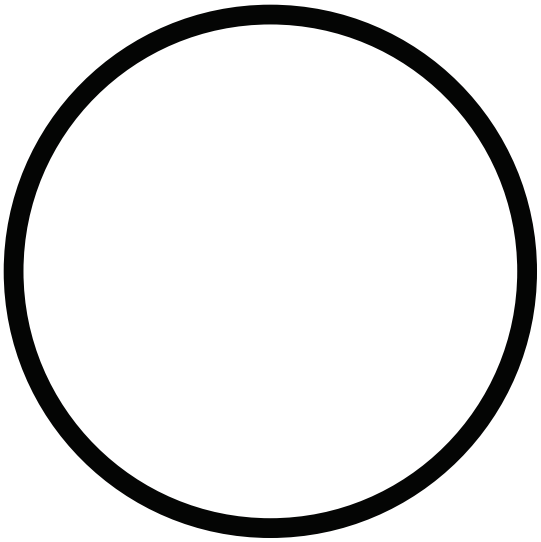

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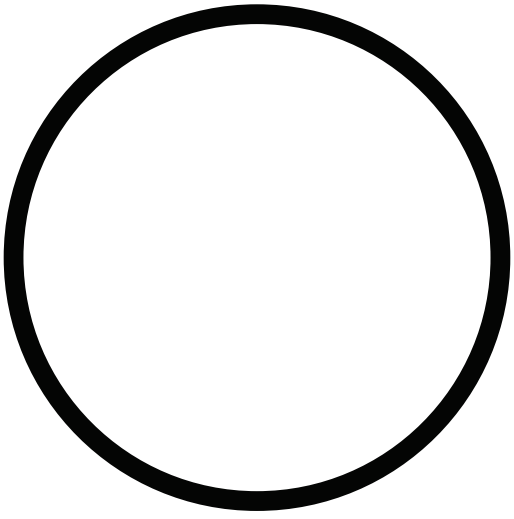

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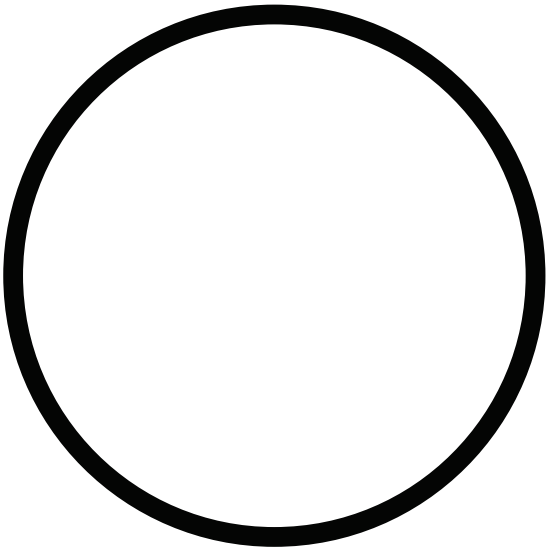

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100 SERIES – .103 cross section

147

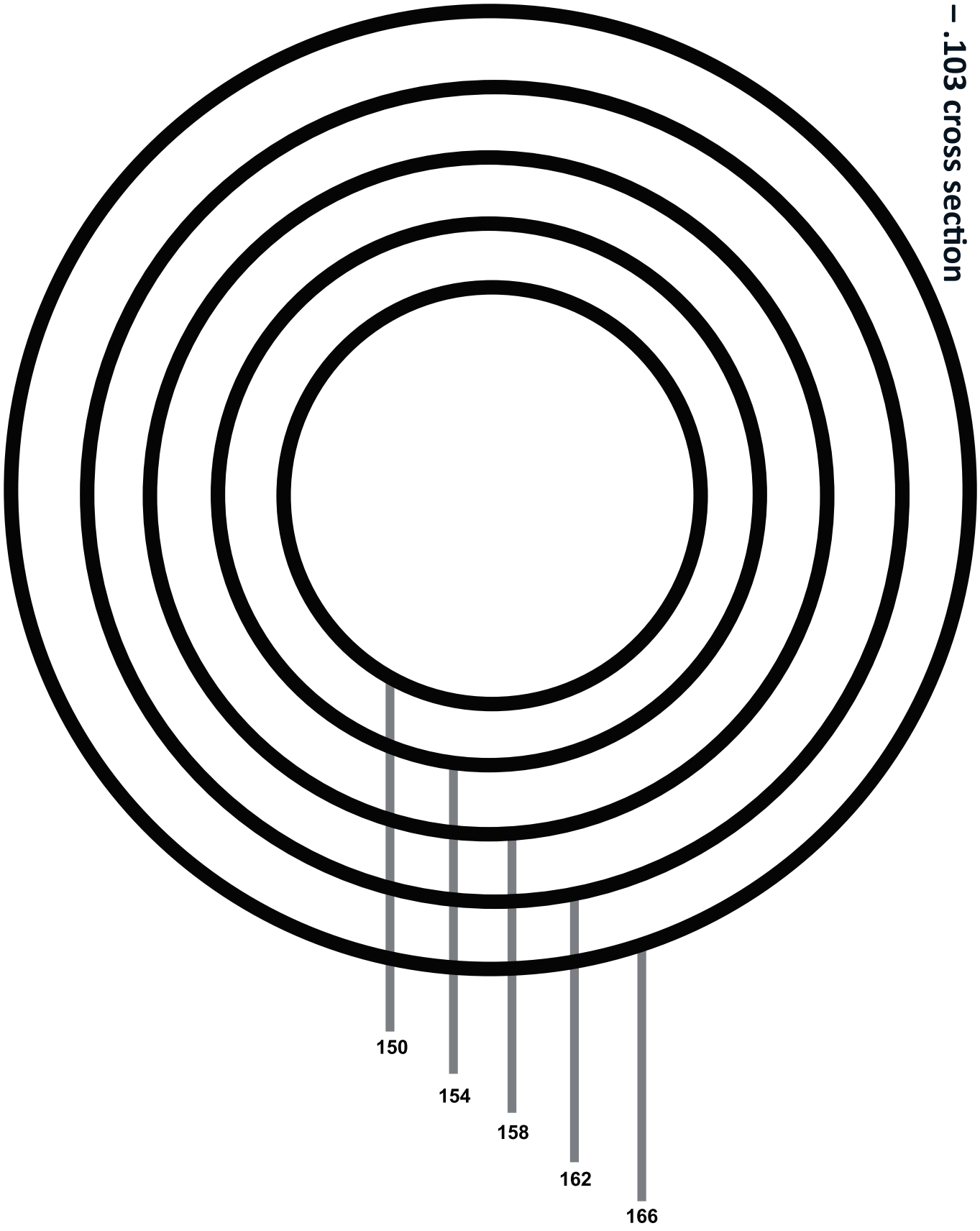
148

149

100 SERIES **150** **154** **158** **162** **166**

100 SERIES IS SPACED IN FOUR NUMBER INCREMENTS

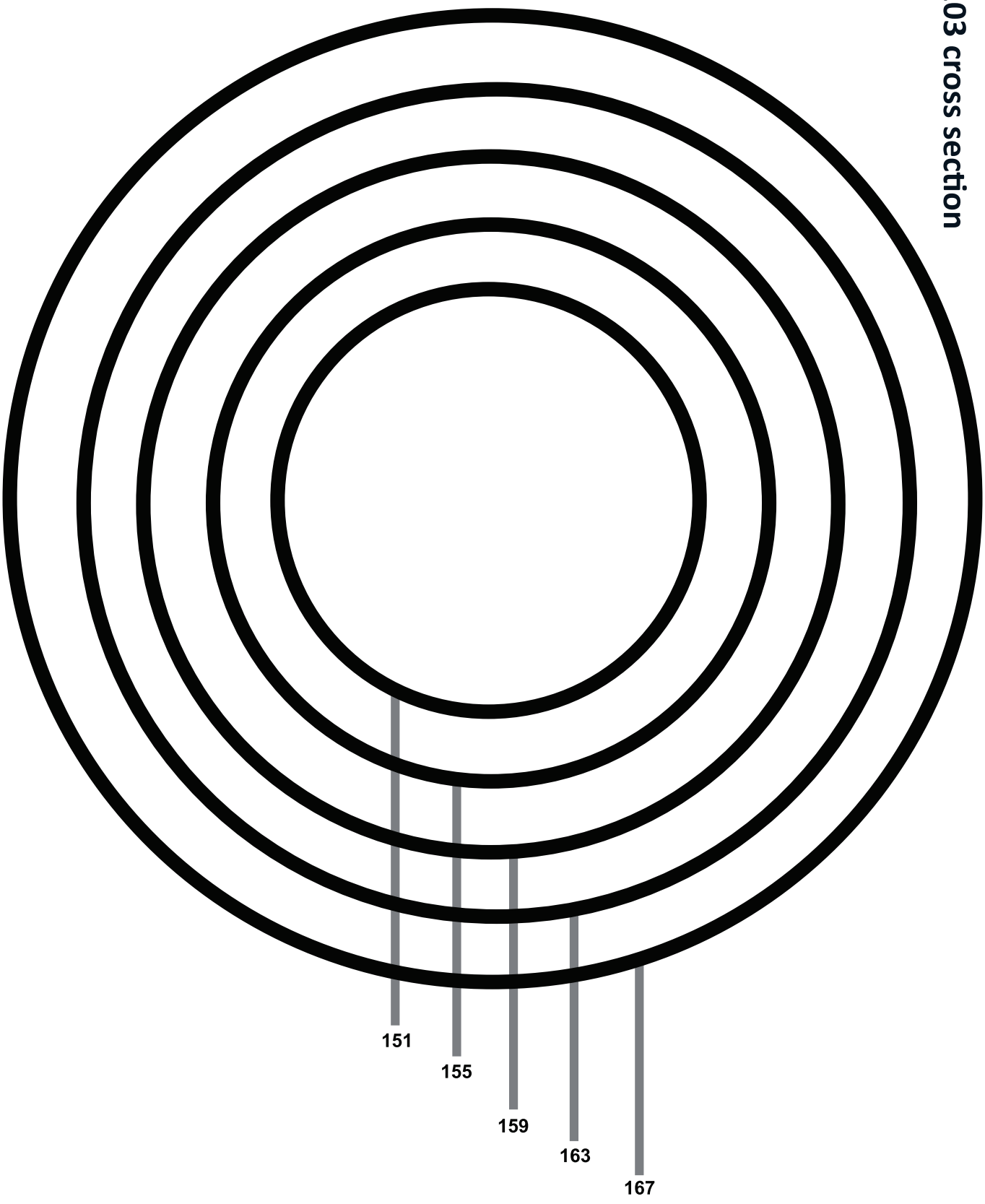
100 SERIES – .103 cross section



100 SERIES **151** **155** **159** **163** **167**

100 SERIES IS SPACED IN FOUR NUMBER INCREMENTS

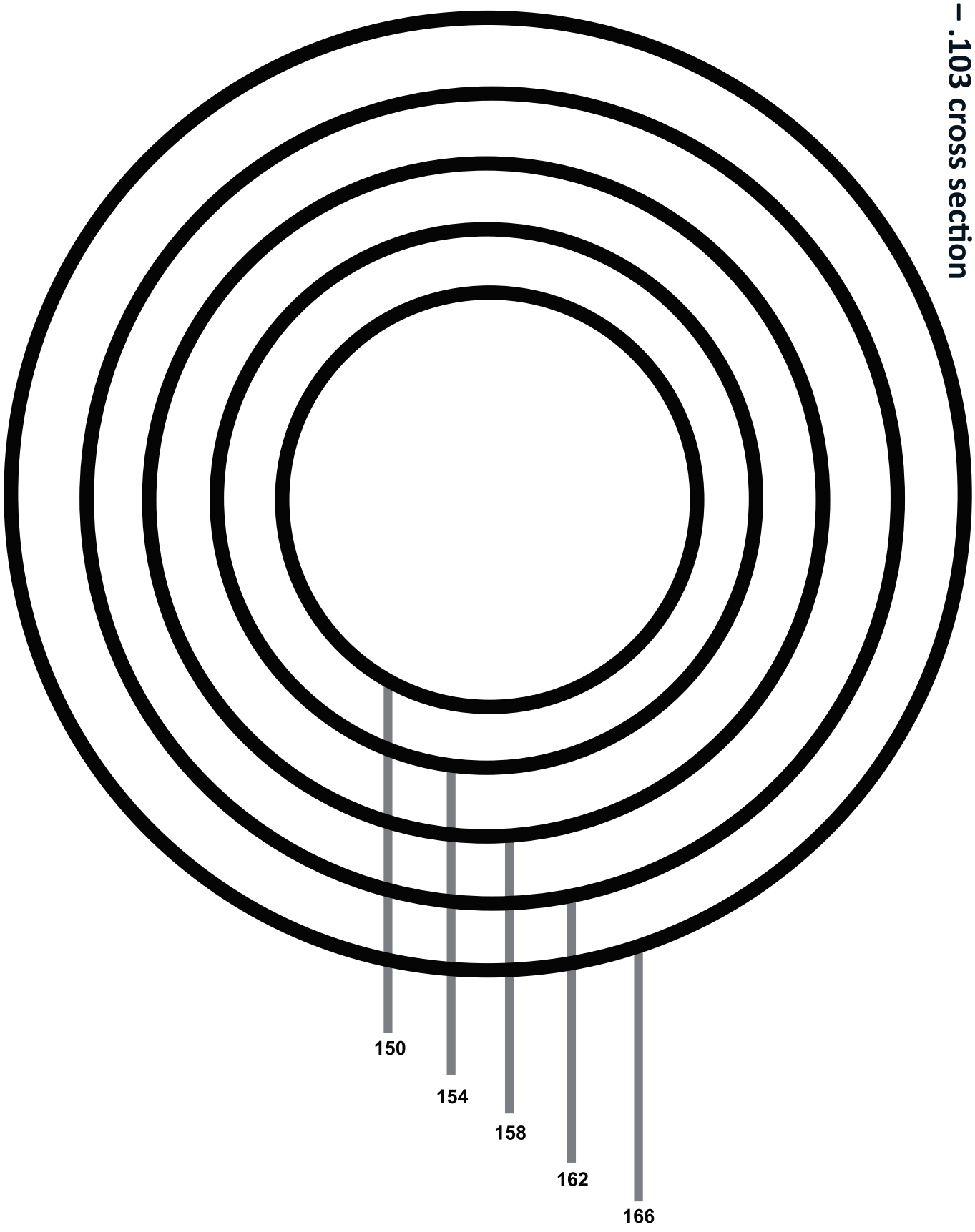
100 SERIES – .103 cross section



100 SERIES **150** **154** **158** **162** **166**

100 SERIES IS SPACED IN FOUR NUMBER INCREMENTS

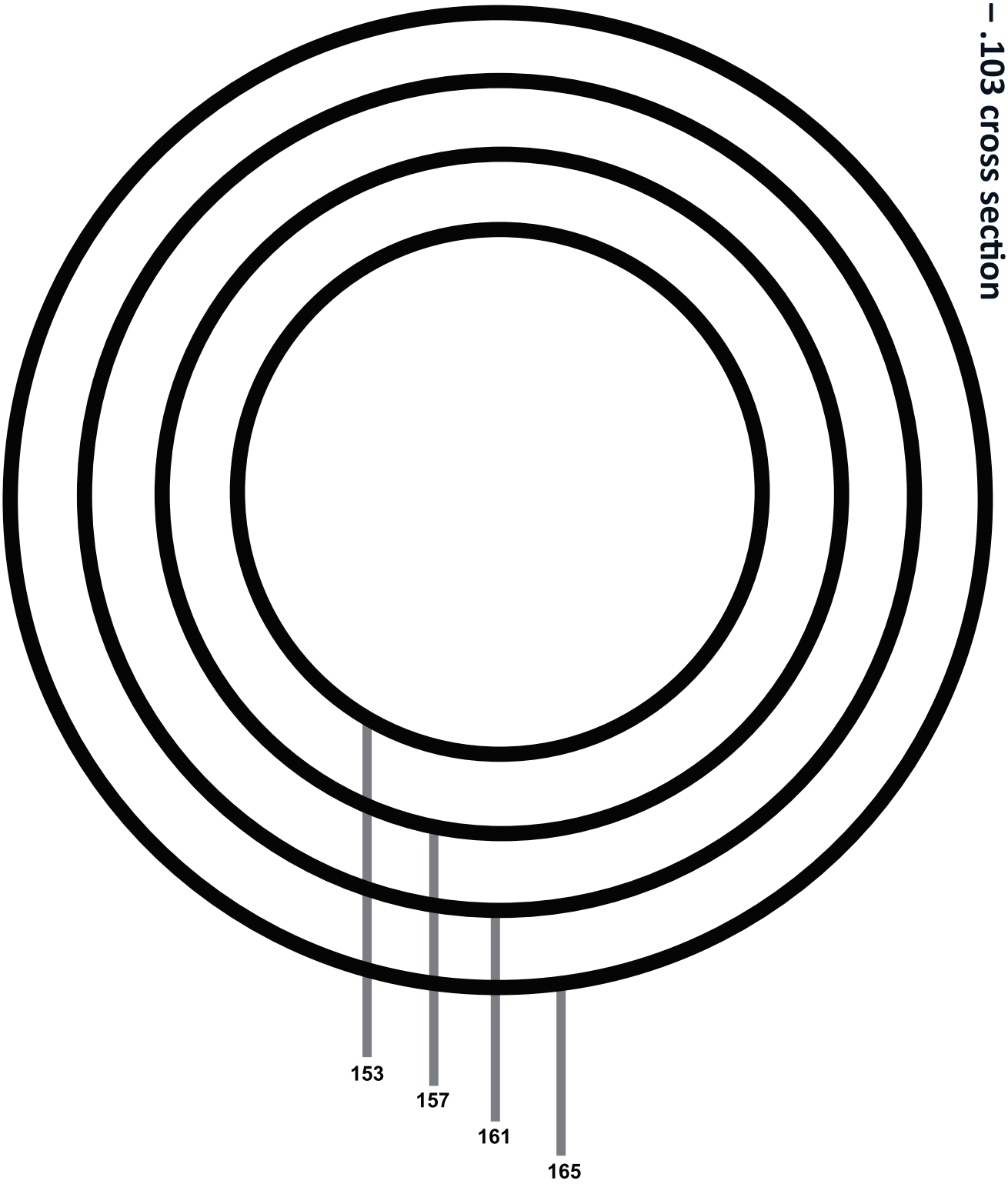
100 SERIES – .103 cross section



100 SERIES **153** **157** **161** **165**

100 SERIES IS SPACED IN FOUR NUMBER INCREMENTS

100 SERIES – .103 cross section



200 SERIES – .139 cross section

200 SERIES – .139 cross section

225

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200 SERIES – .139 cross section

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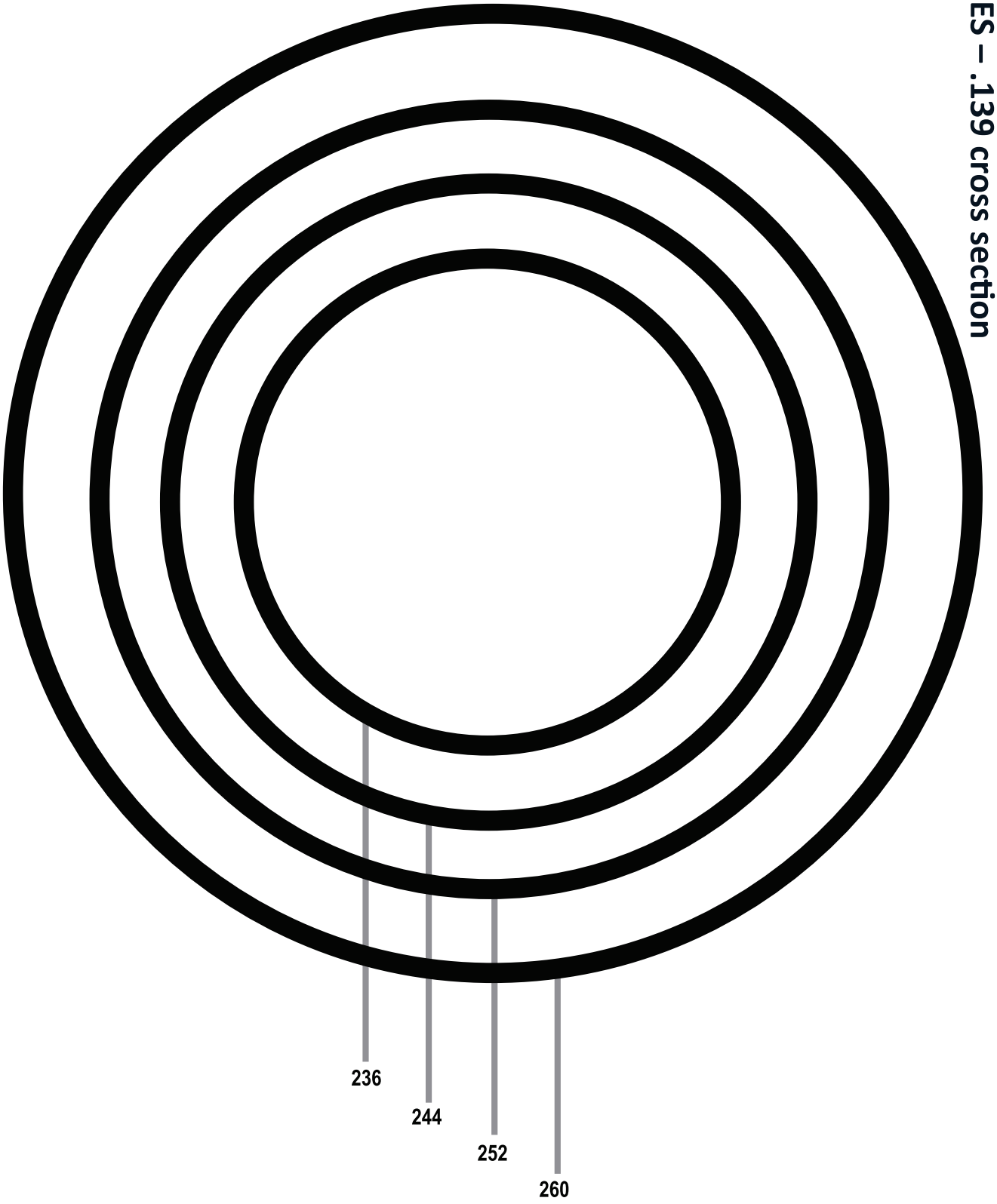
200 SERIES **236** **244** **252** **260**

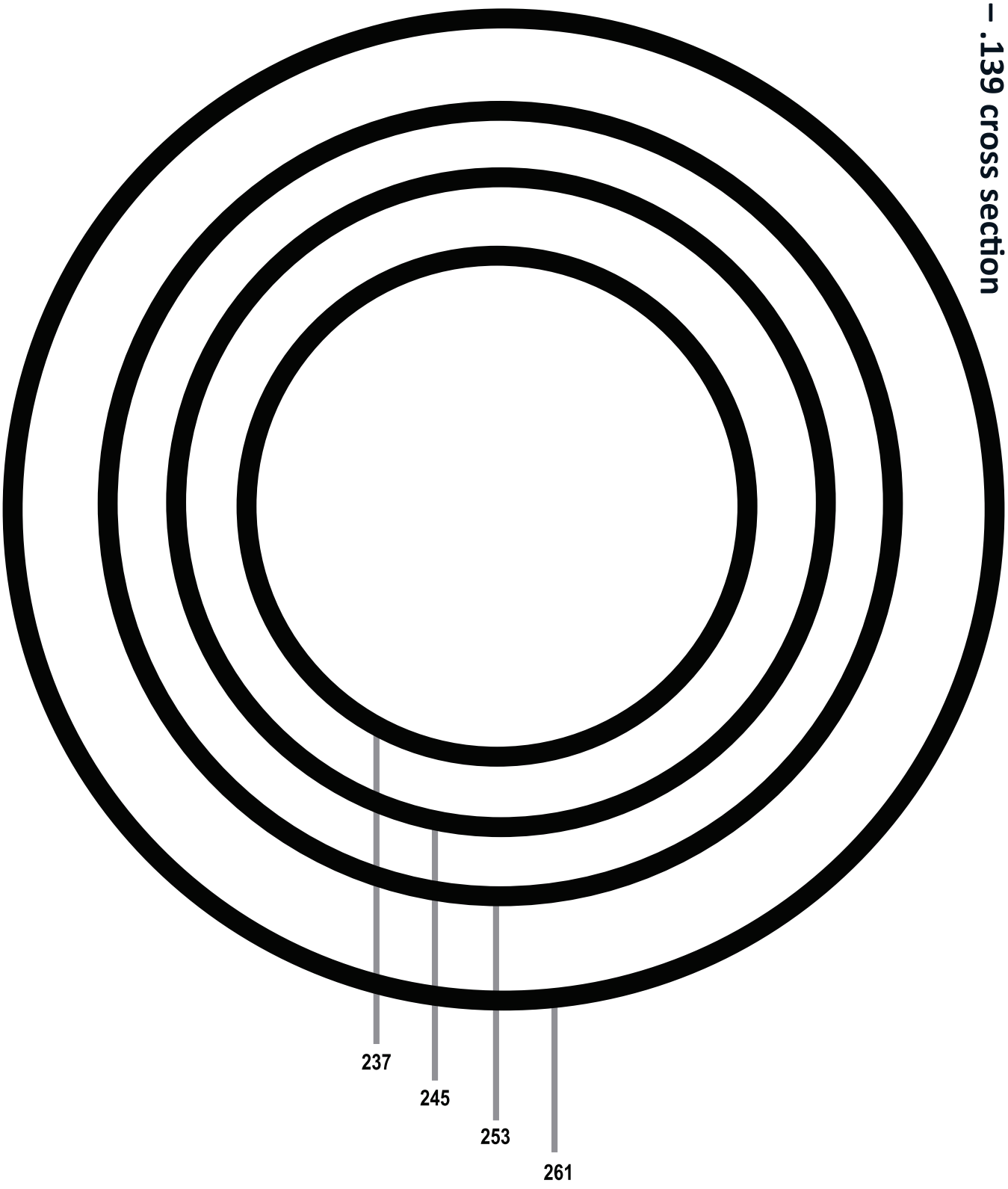
200 SERIES IS SPACED IN EIGHT NUMBER INCREMENTS

200 SERIES – .139 cross section



200 SERIES **237** **245** **253** **261**

200 SERIES IS SPACED IN EIGHT NUMBER INCREMENTS



200 SERIES – .139 cross section

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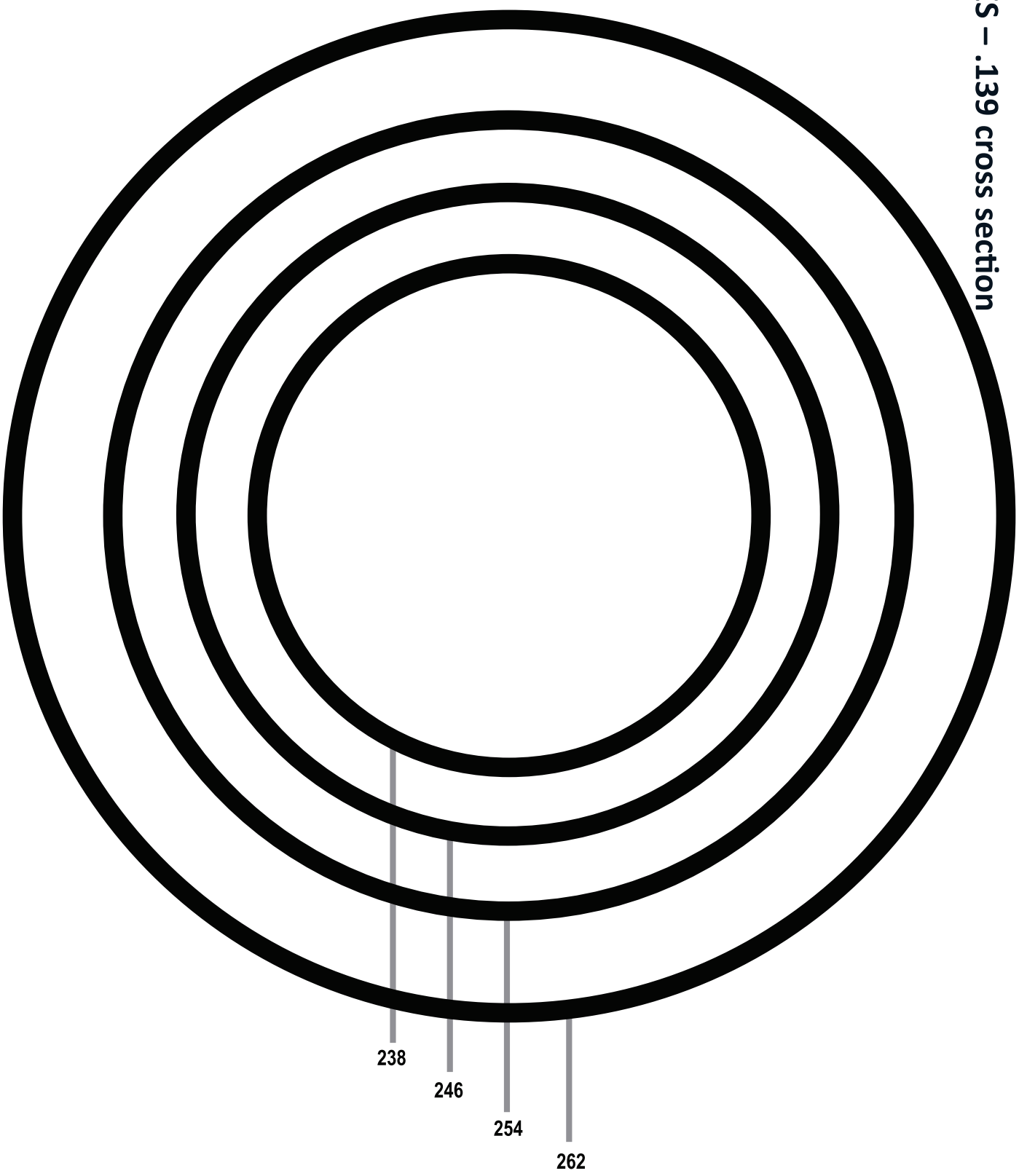
200 SERIES IS SPACED IN EIGHT NUMBER INCREMENTS

200 SERIES – .139 cross section



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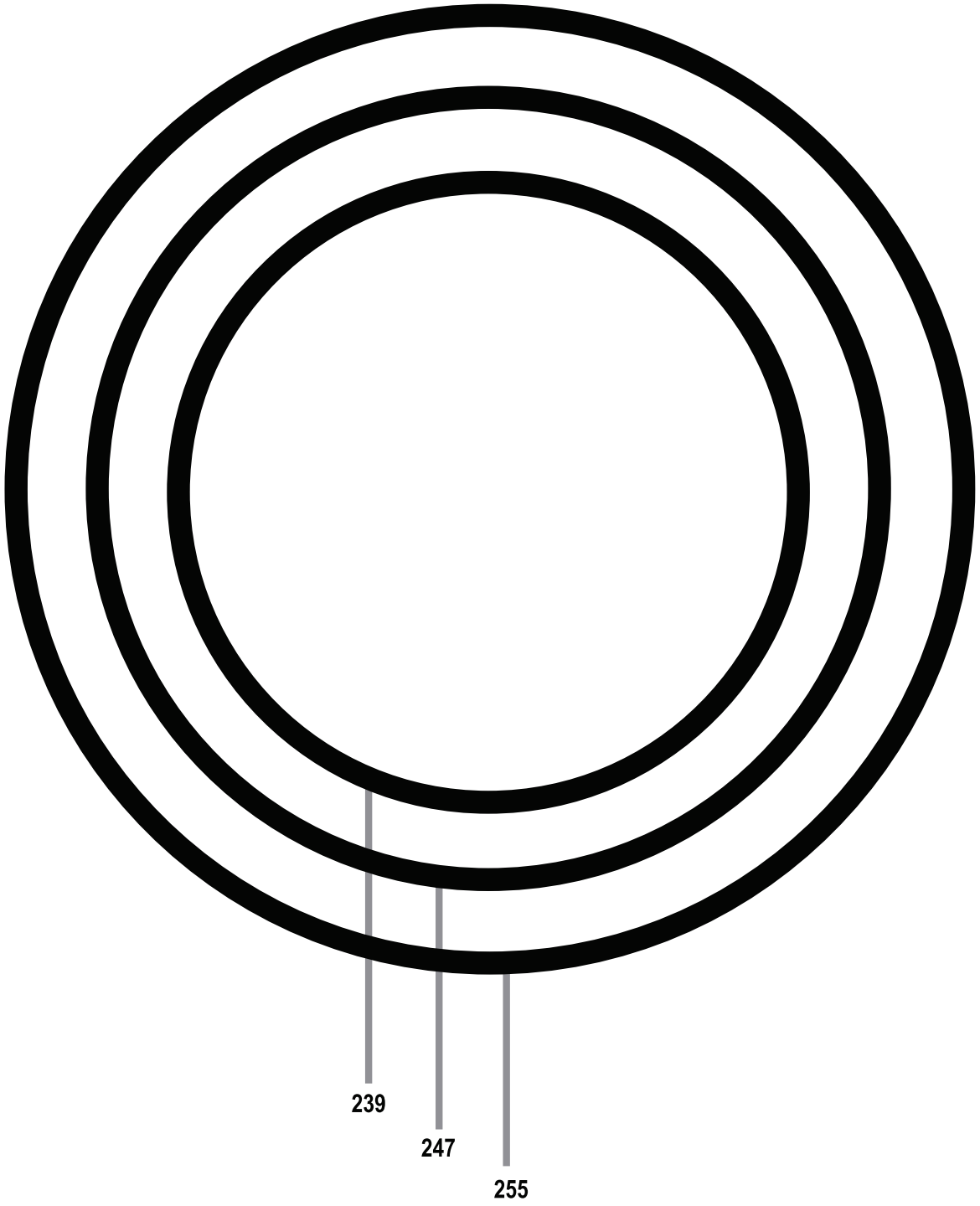
200 SERIES IS SPACED IN EIGHT NUMBER INCREMENTS

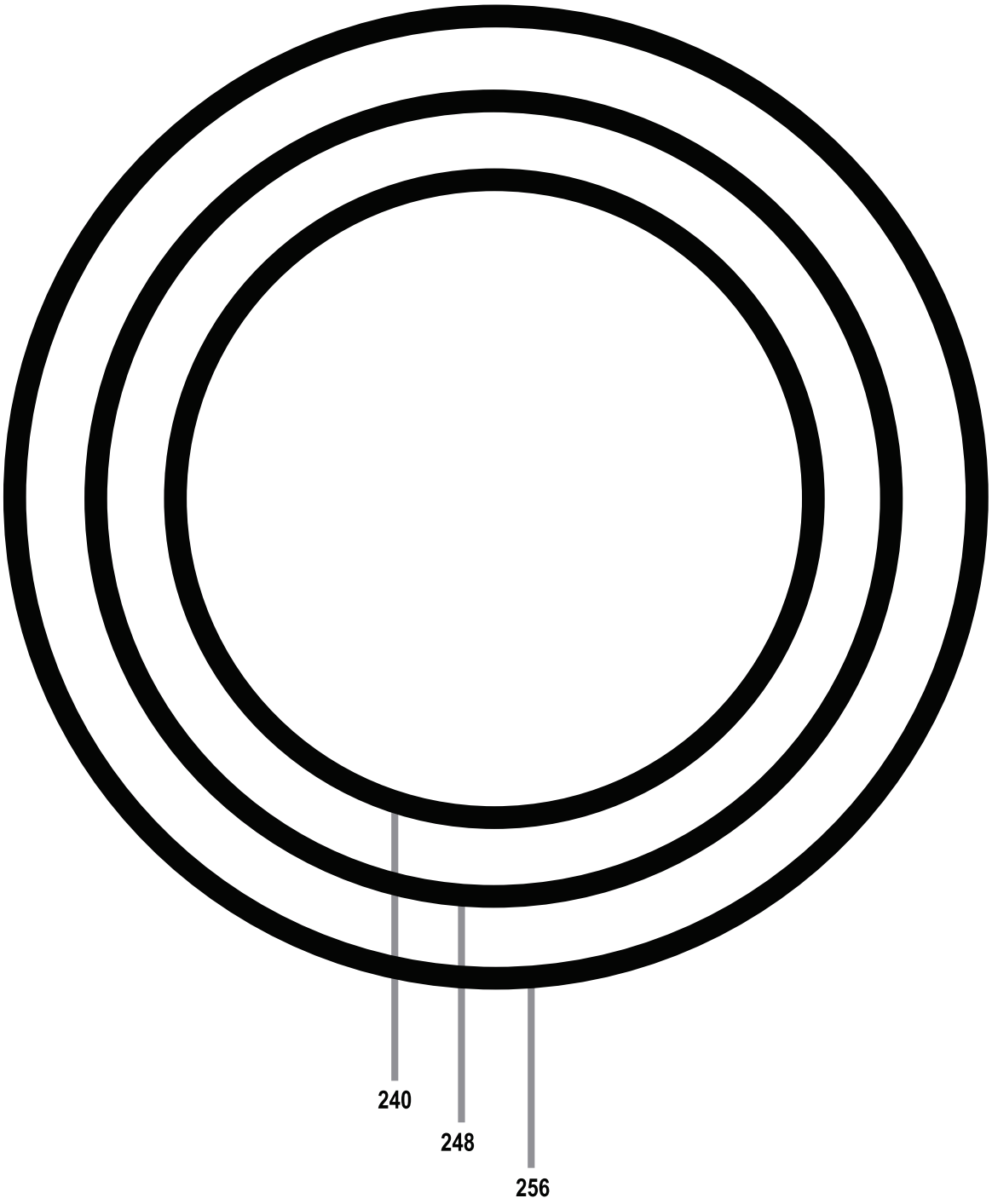
200 SERIES – .139 cross section



200 SERIES 240 248 256

200 SERIES IS SPACED IN EIGHT NUMBER INCREMENTS

200 SERIES – .139 cross section



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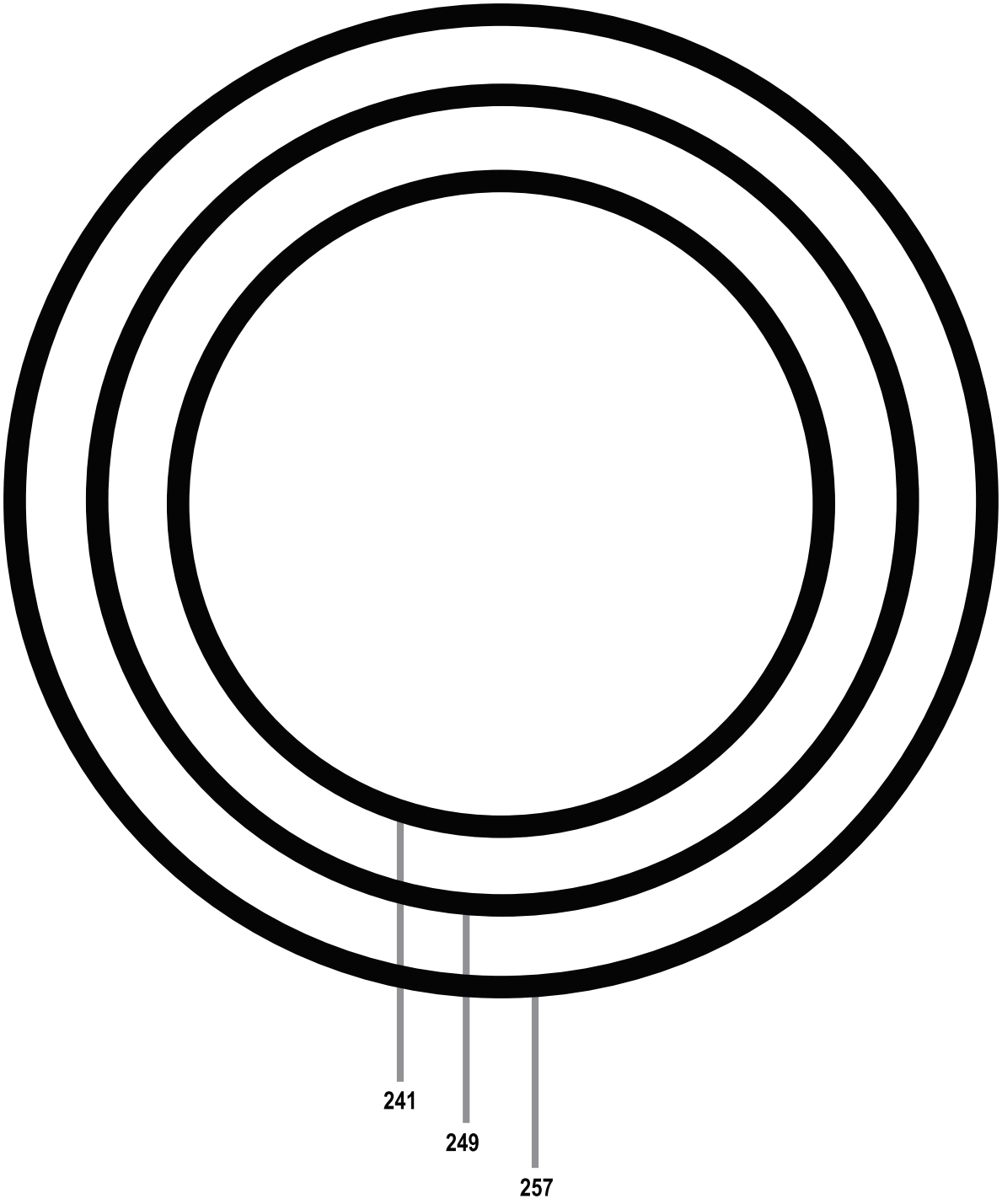
200 SERIES IS SPACED IN EIGHT NUMBER INCREMENTS

200 SERIES – .139 cross section



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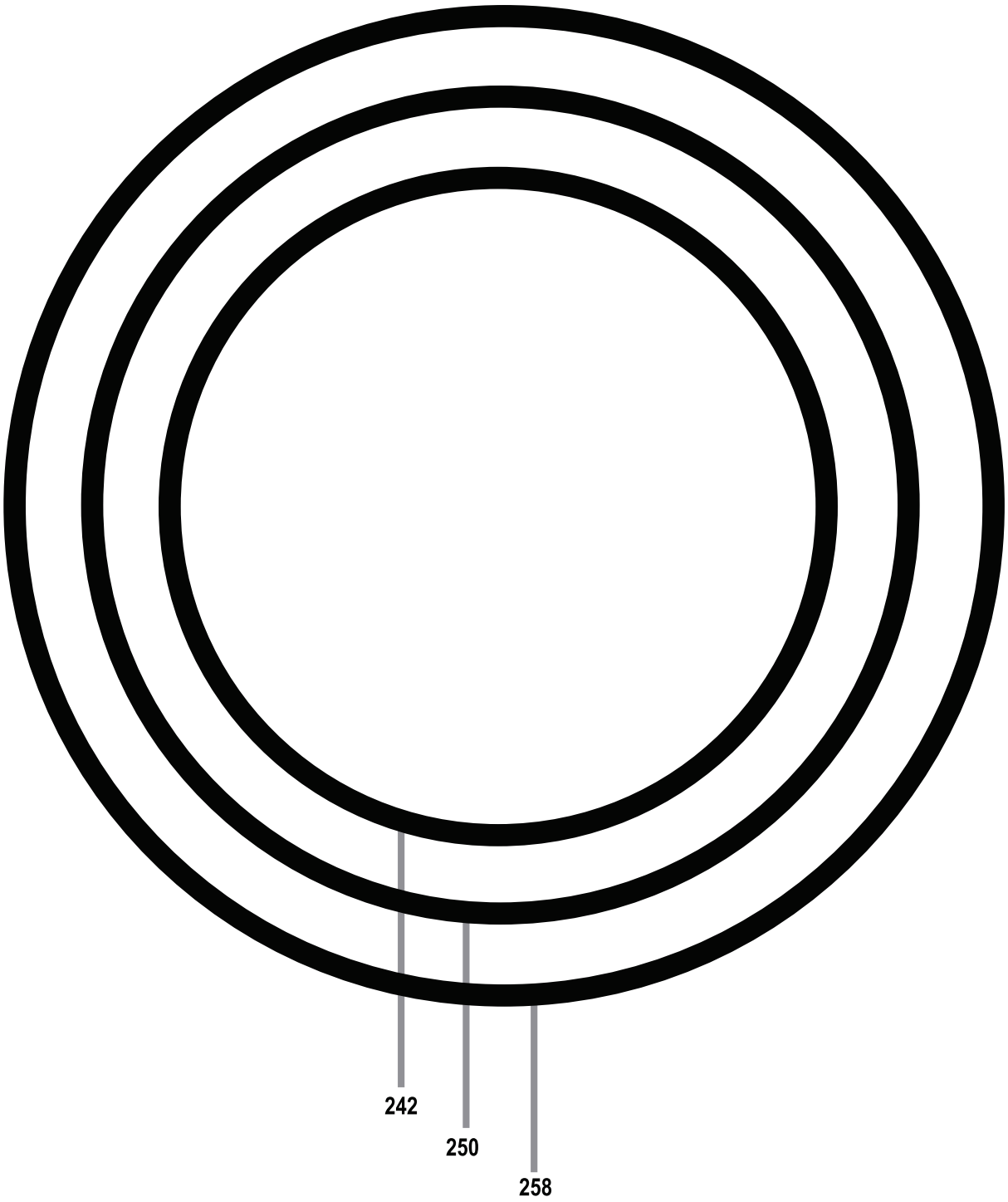
200 SERIES IS SPACED IN EIGHT NUMBER INCREMENTS

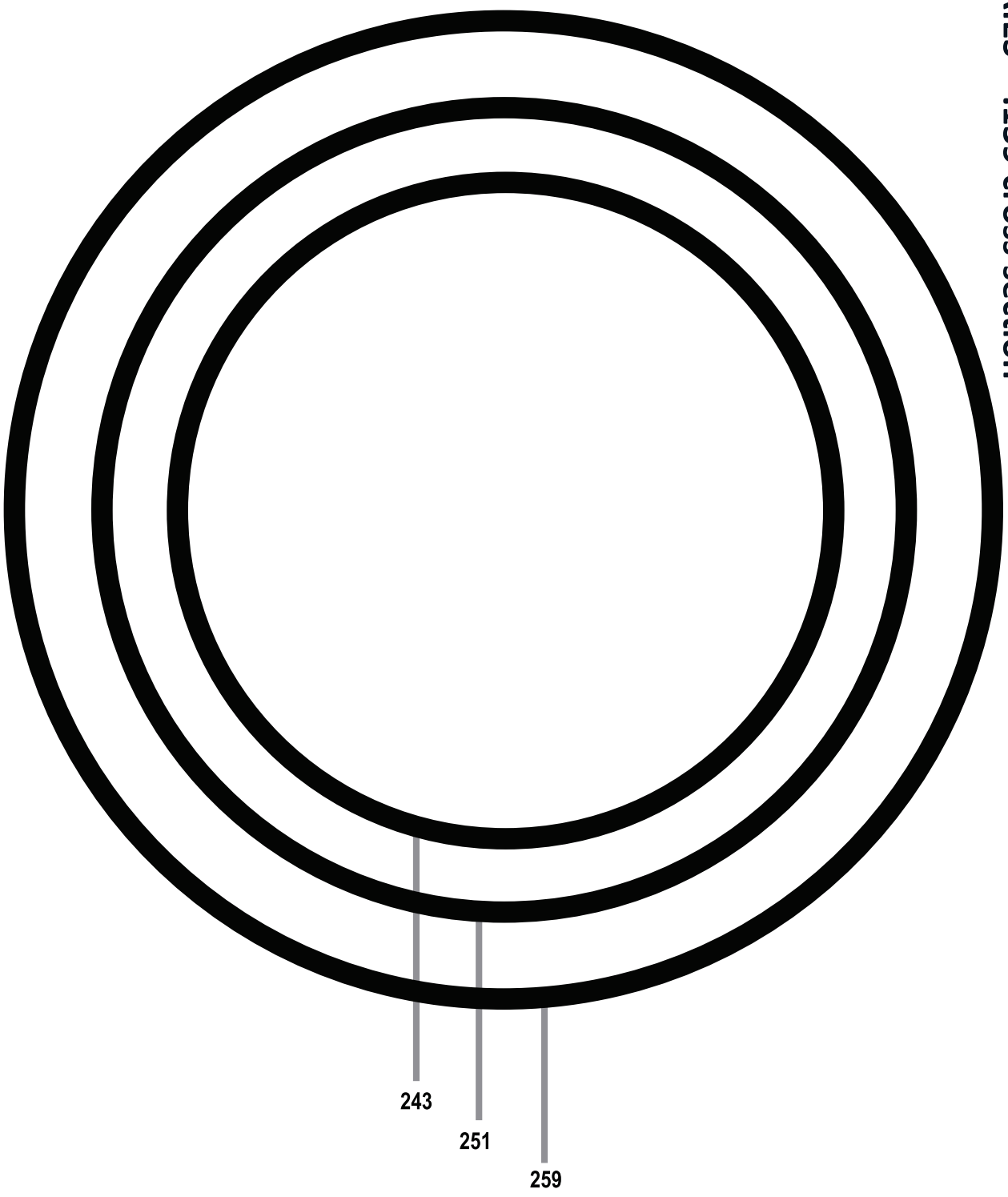
200 SERIES – .139 cross section



200 SERIES **243** **251** **259**

200 SERIES IS SPACED IN EIGHT NUMBER INCREMENTS

200 SERIES – .139 cross section



300 SERIES – .210 cross section

300 SERIES – .210 cross section

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300 SERIES – .210 cross section

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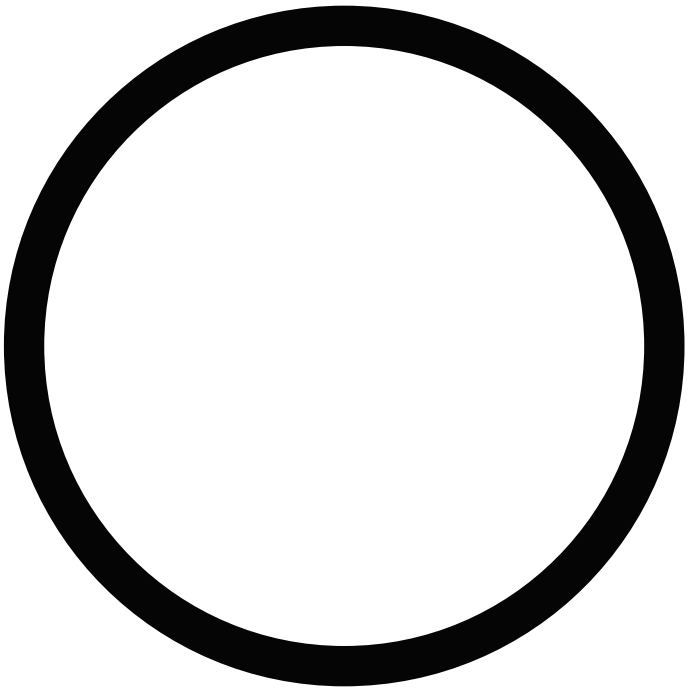
337

300 SERIES – .210 cross section



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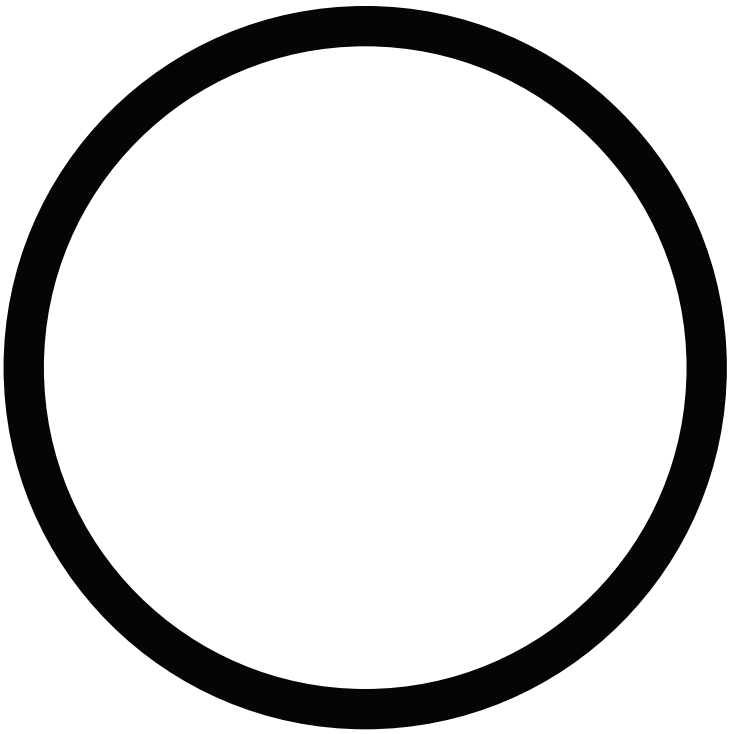

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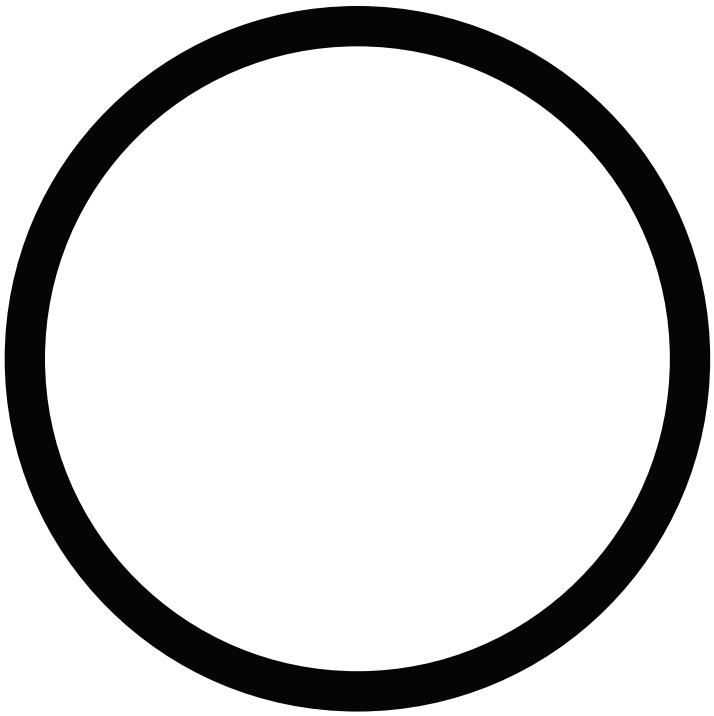

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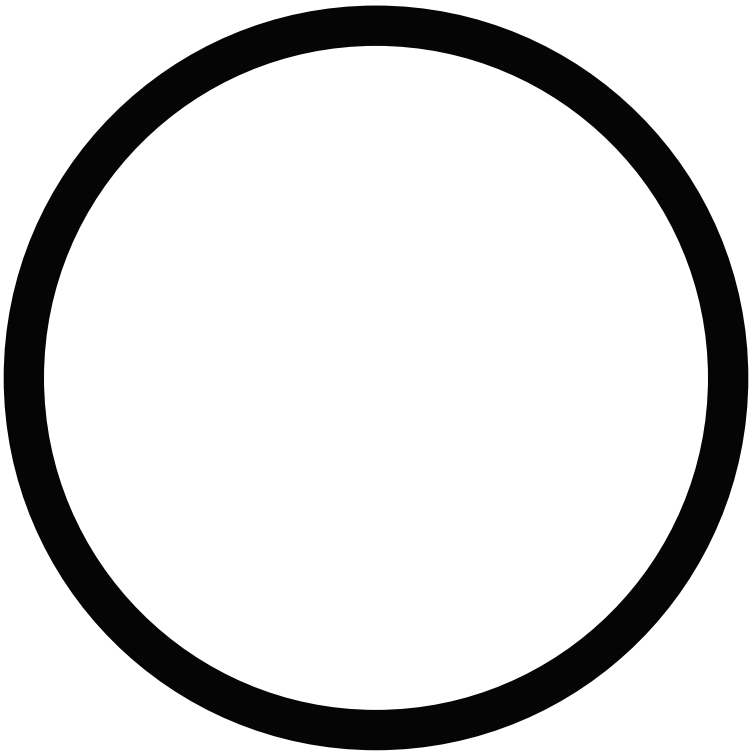

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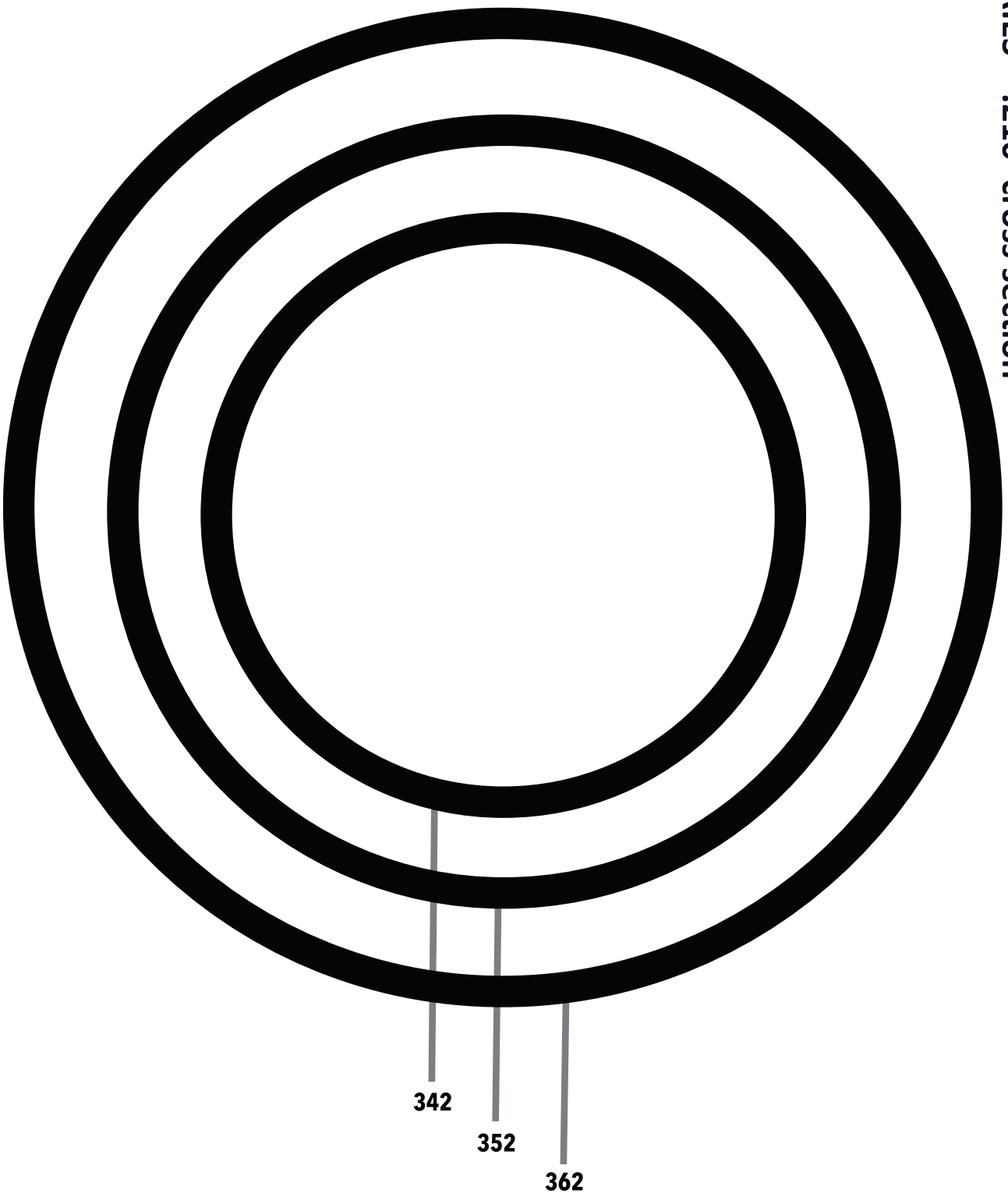
300 SERIES **342** **352** **362**

300 SERIES IS SPACED IN TEN NUMBER INCREMENTS

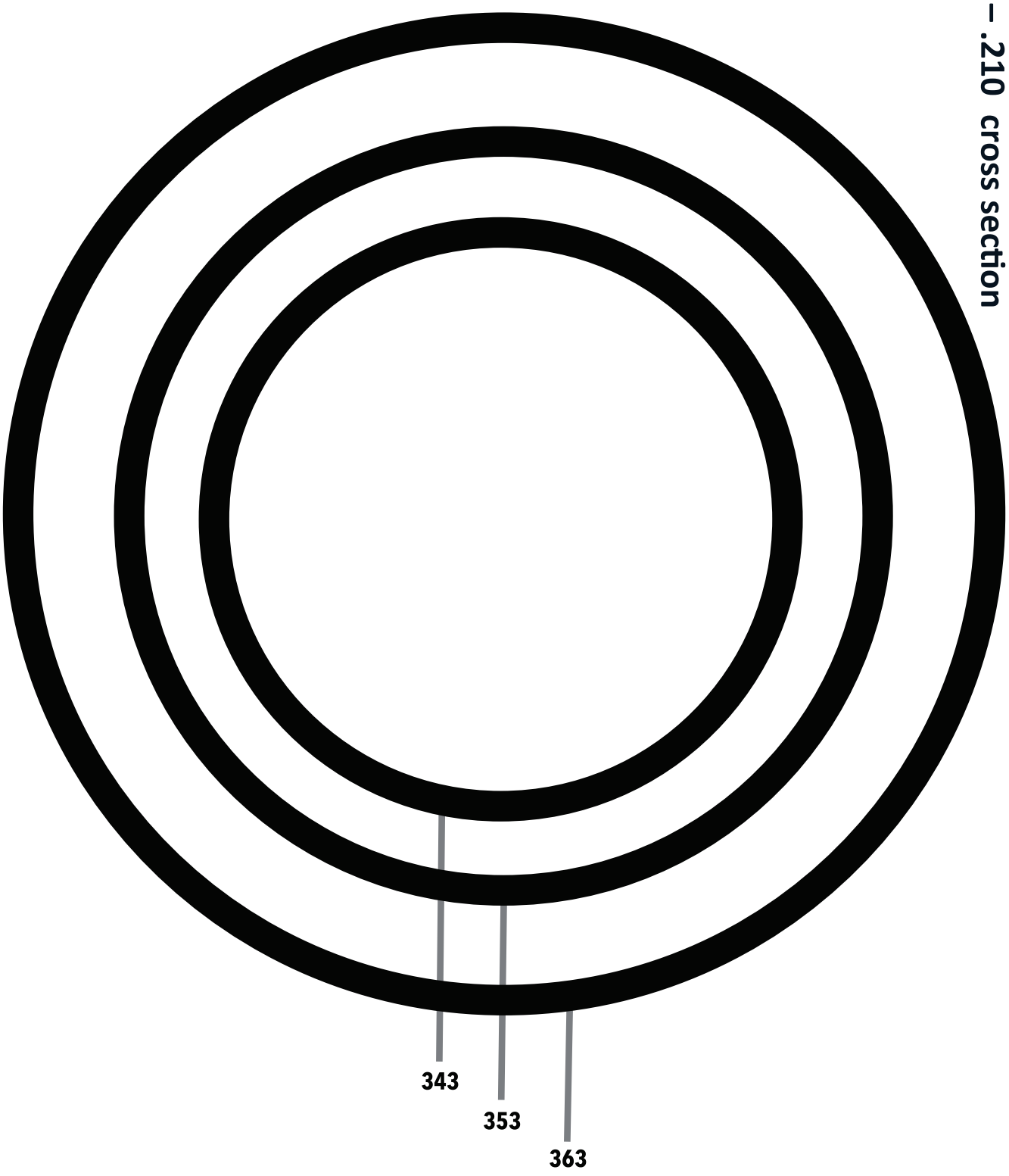
300 SERIES – .210 cross section



300 SERIES **343** **353** **363**

300 SERIES IS SPACED IN TEN NUMBER INCREMENTS

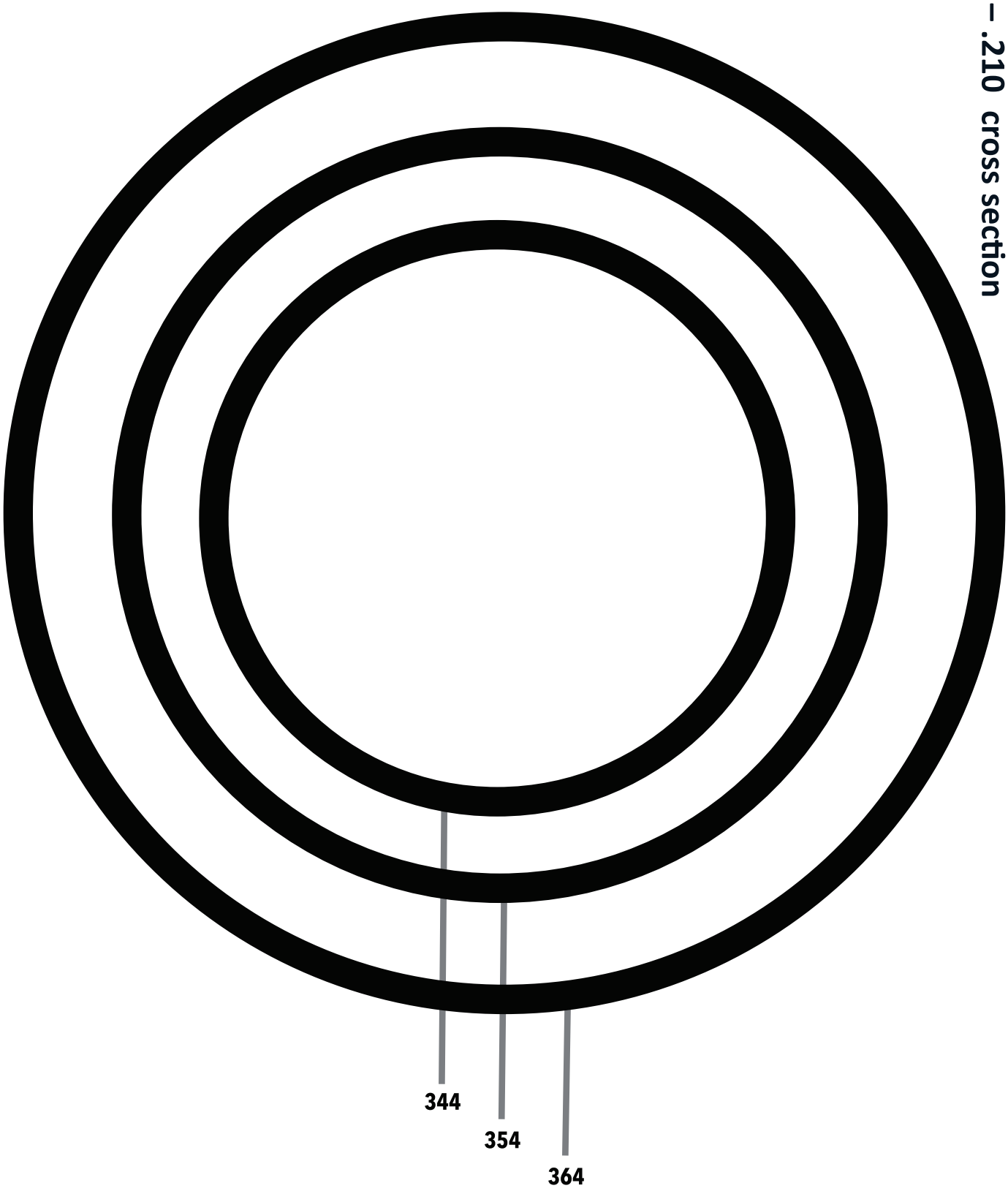
300 SERIES – .210 cross section



300 SERIES **344** **354** **364**

300 SERIES IS SPACED IN TEN NUMBER INCREMENTS

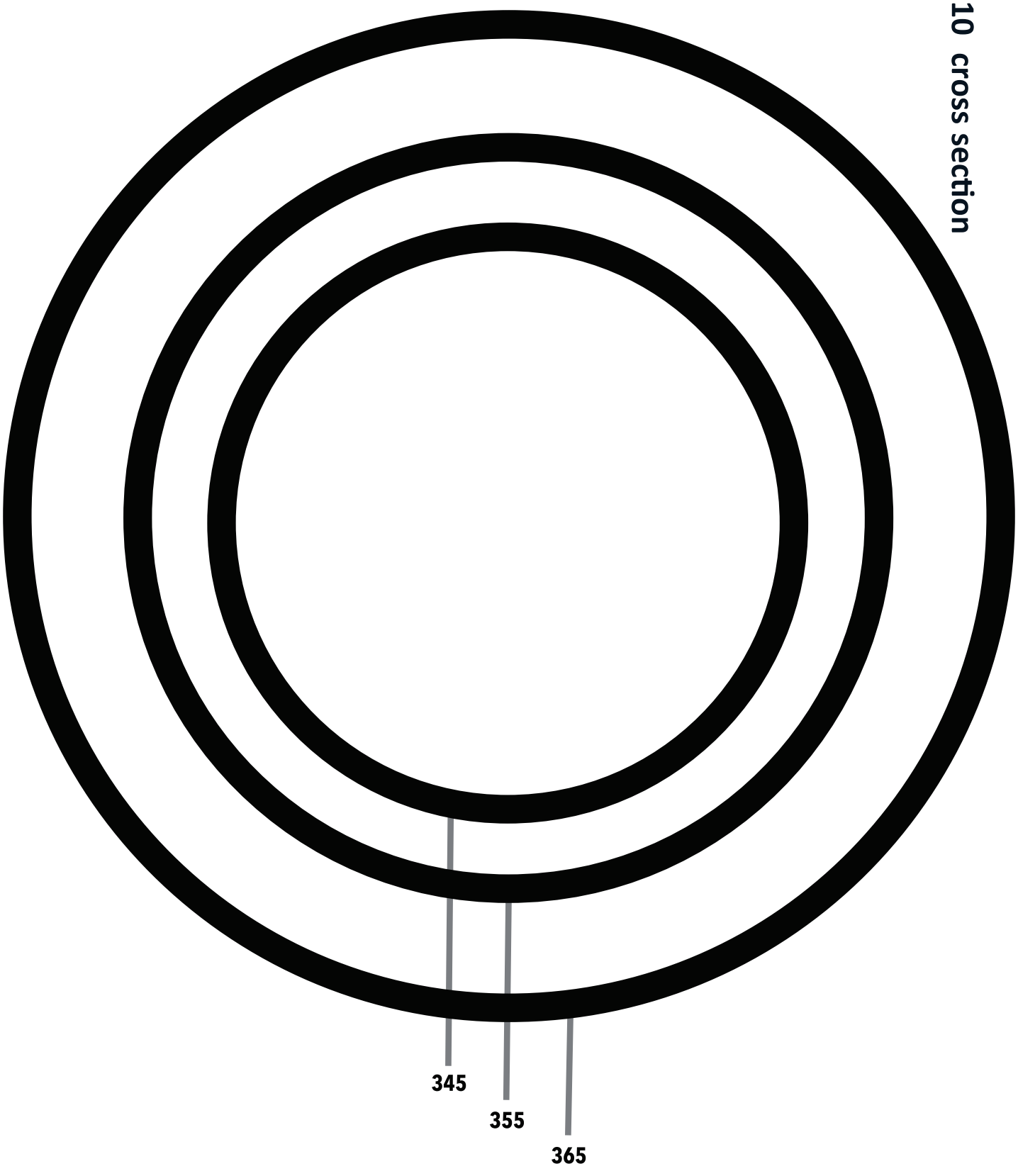
300 SERIES – .210 cross section



300 SERIES **345** **355** **365**

300 SERIES IS SPACED IN TEN NUMBER INCREMENTS

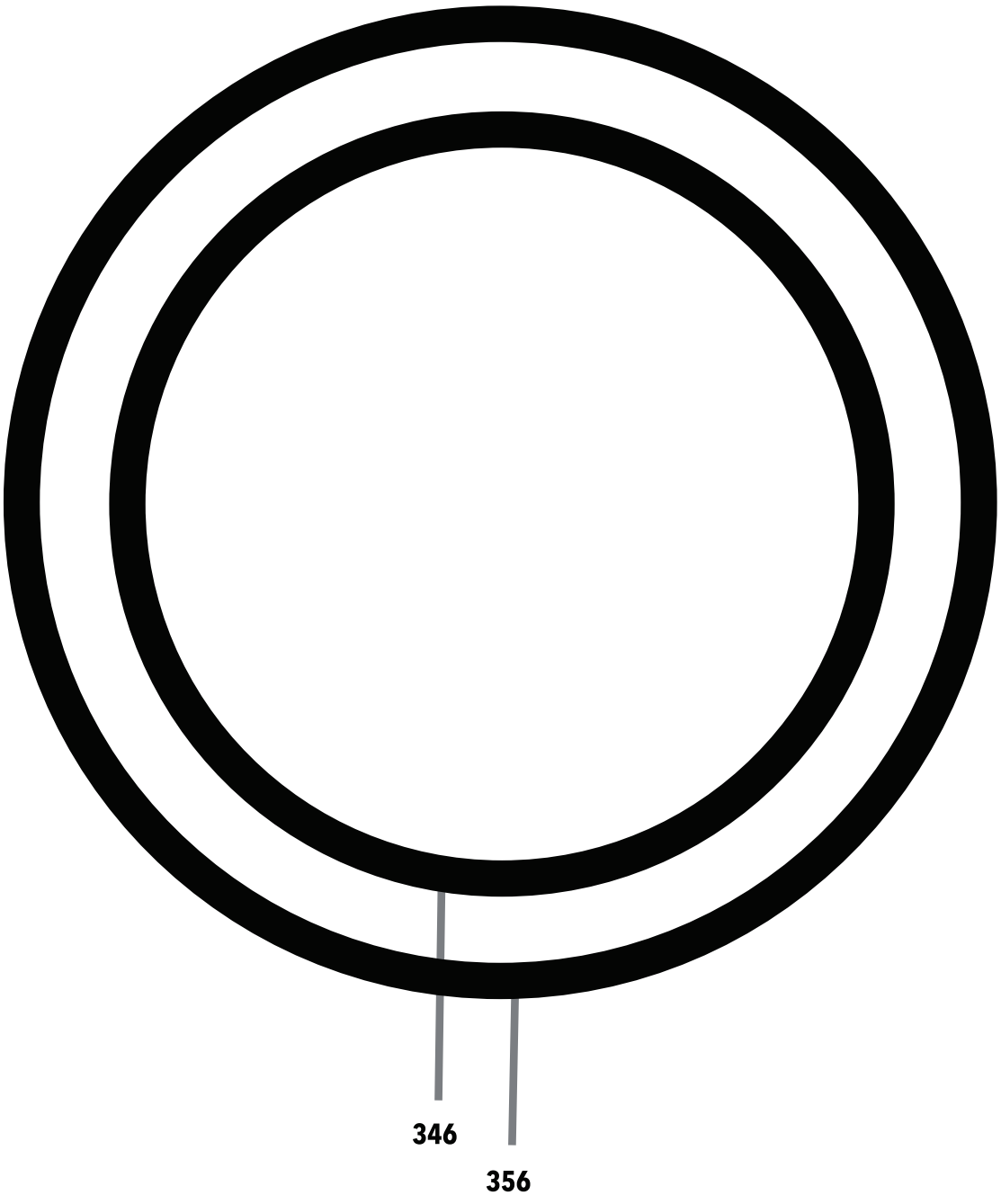
300 SERIES – .210 cross section



300 SERIES **346** **356**

300 SERIES IS SPACED IN TEN NUMBER INCREMENTS

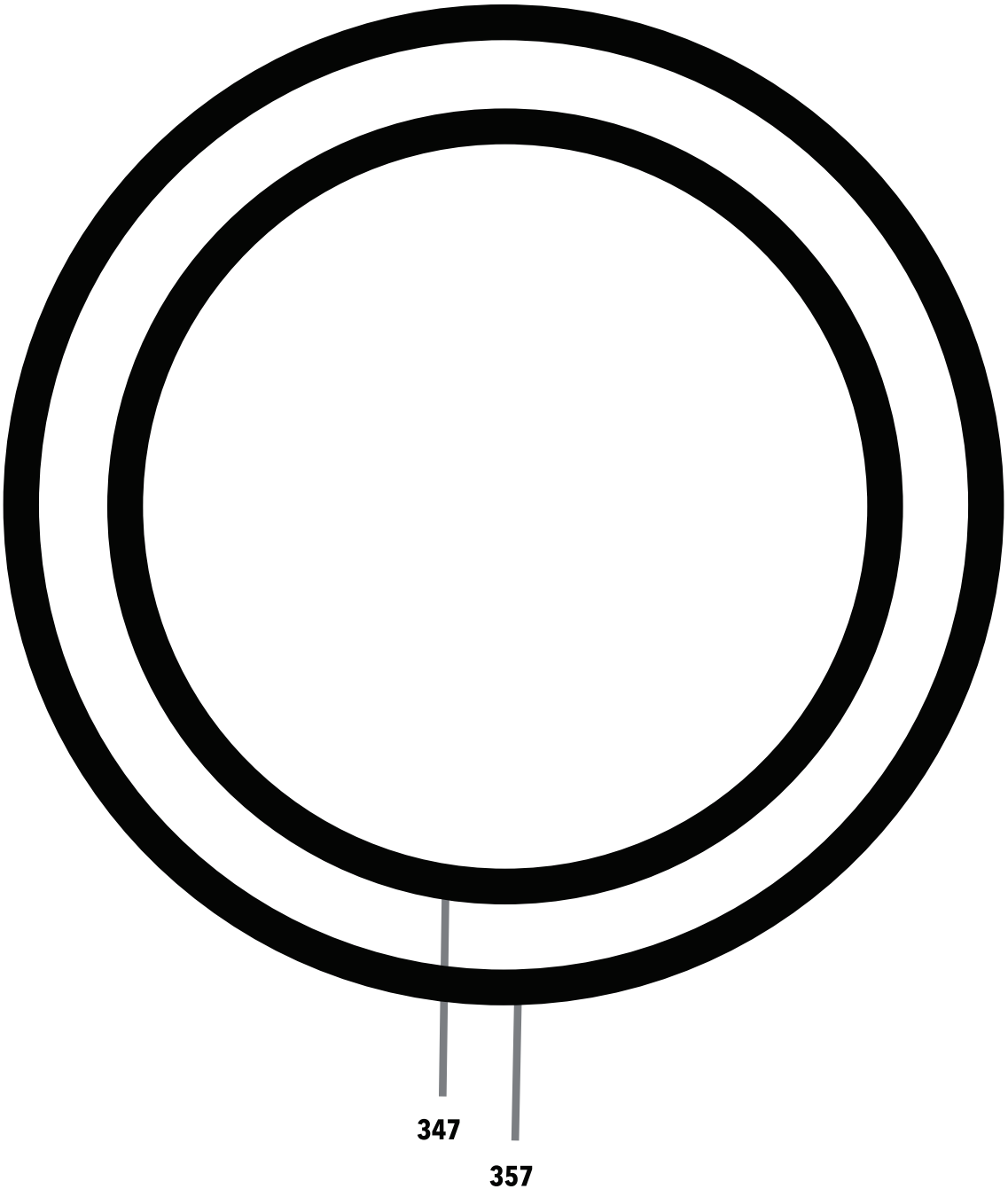
300 SERIES – .210 cross section



300 SERIES **347** **357**

300 SERIES IS SPACED IN TEN NUMBER INCREMENTS

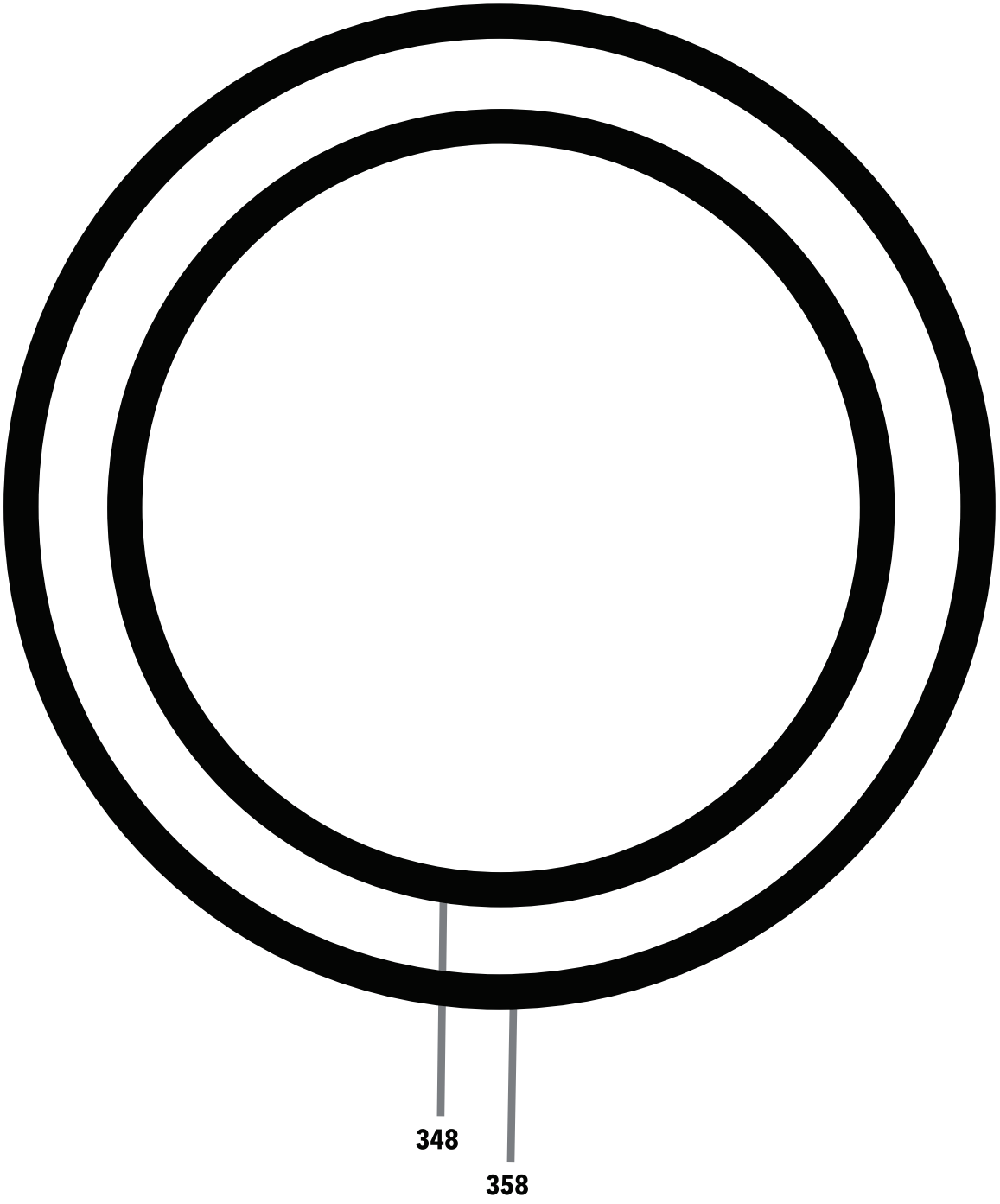
300 SERIES – .210 cross section



300 SERIES **348** **358**

300 SERIES IS SPACED IN TEN NUMBER INCREMENTS

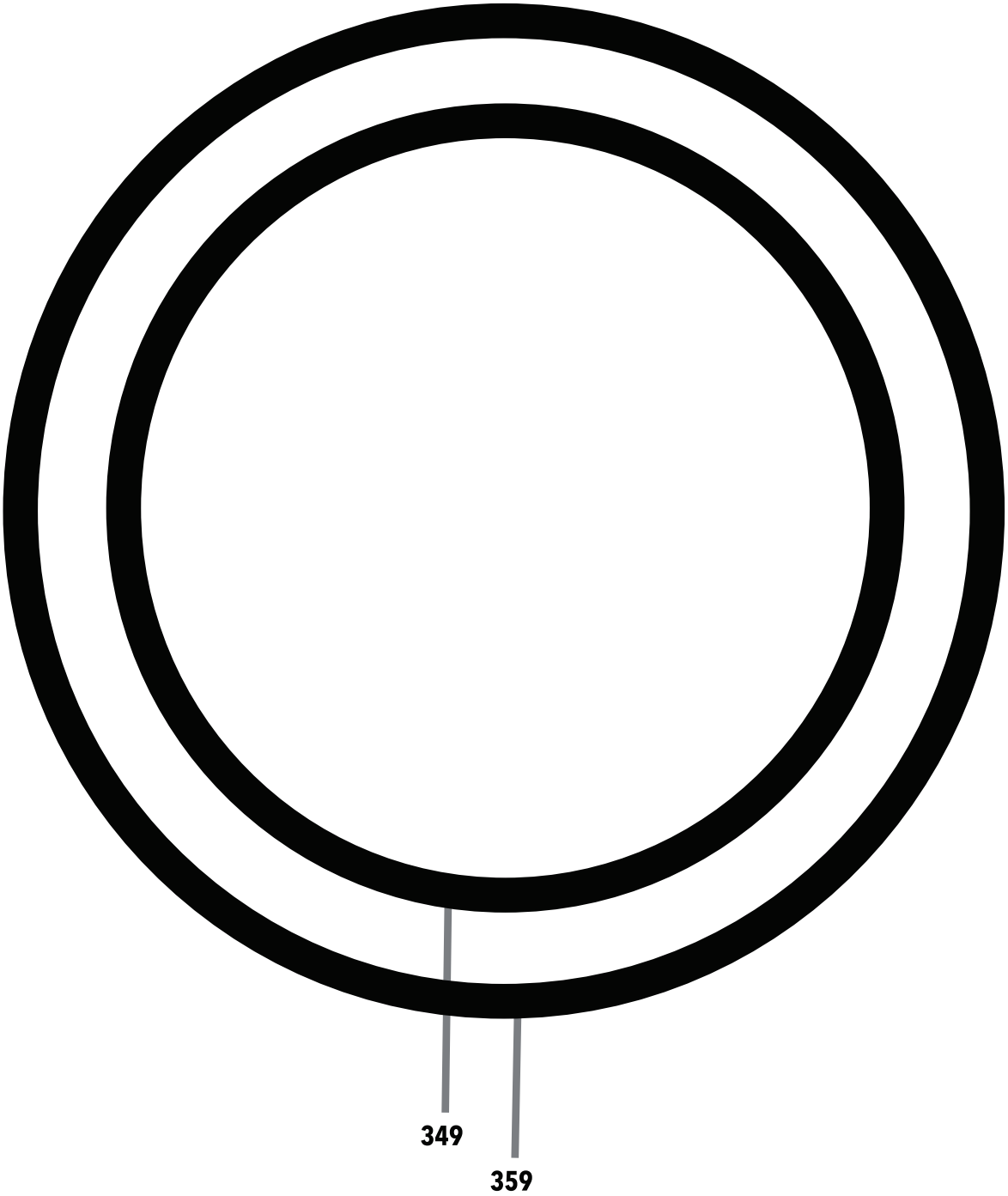
300 SERIES – .210 cross section



300 SERIES 349 359

300 SERIES IS SPACED IN TEN NUMBER INCREMENTS

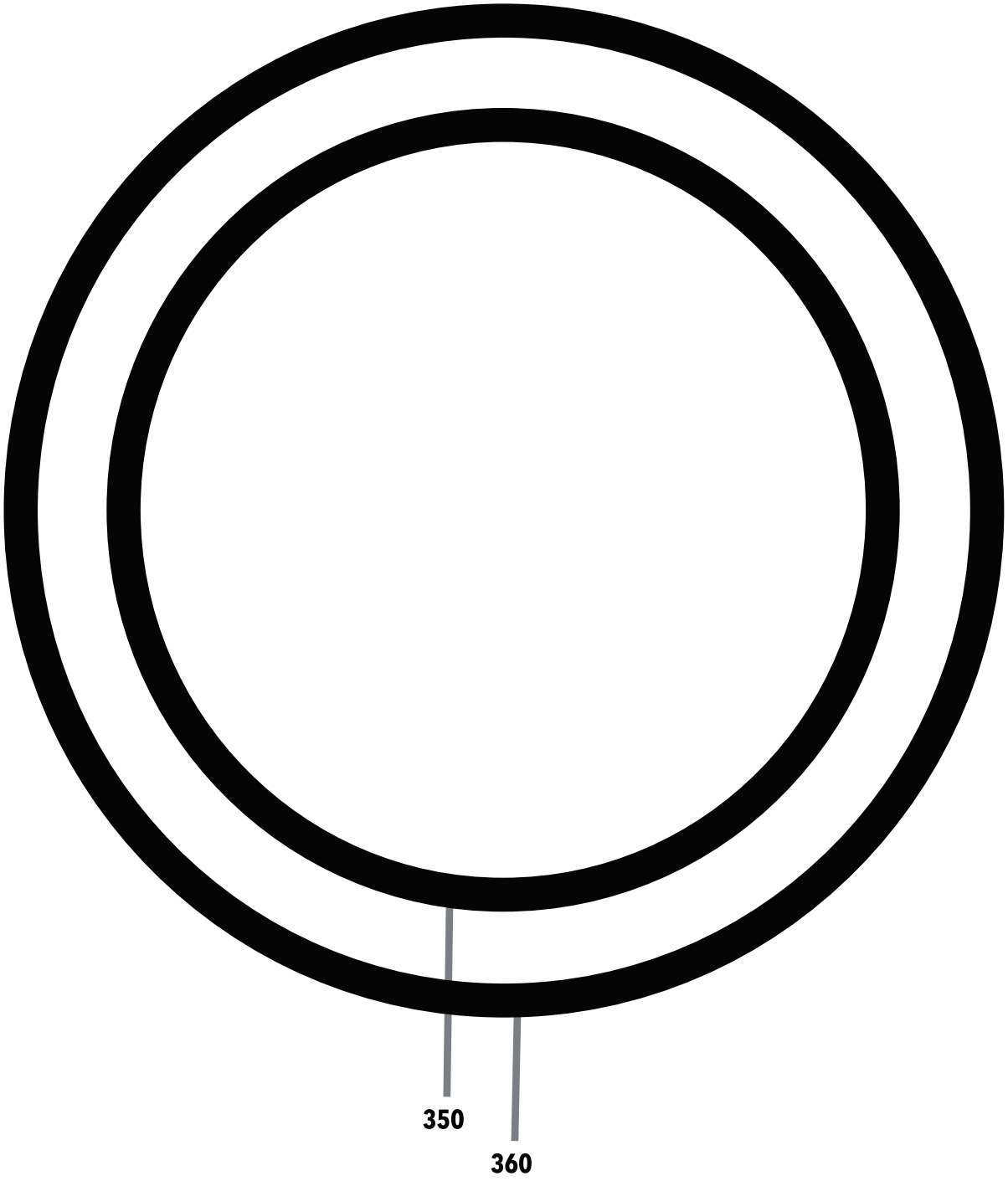
300 SERIES – .210 cross section



300 SERIES 350 360

300 SERIES IS SPACED IN TEN NUMBER INCREMENTS

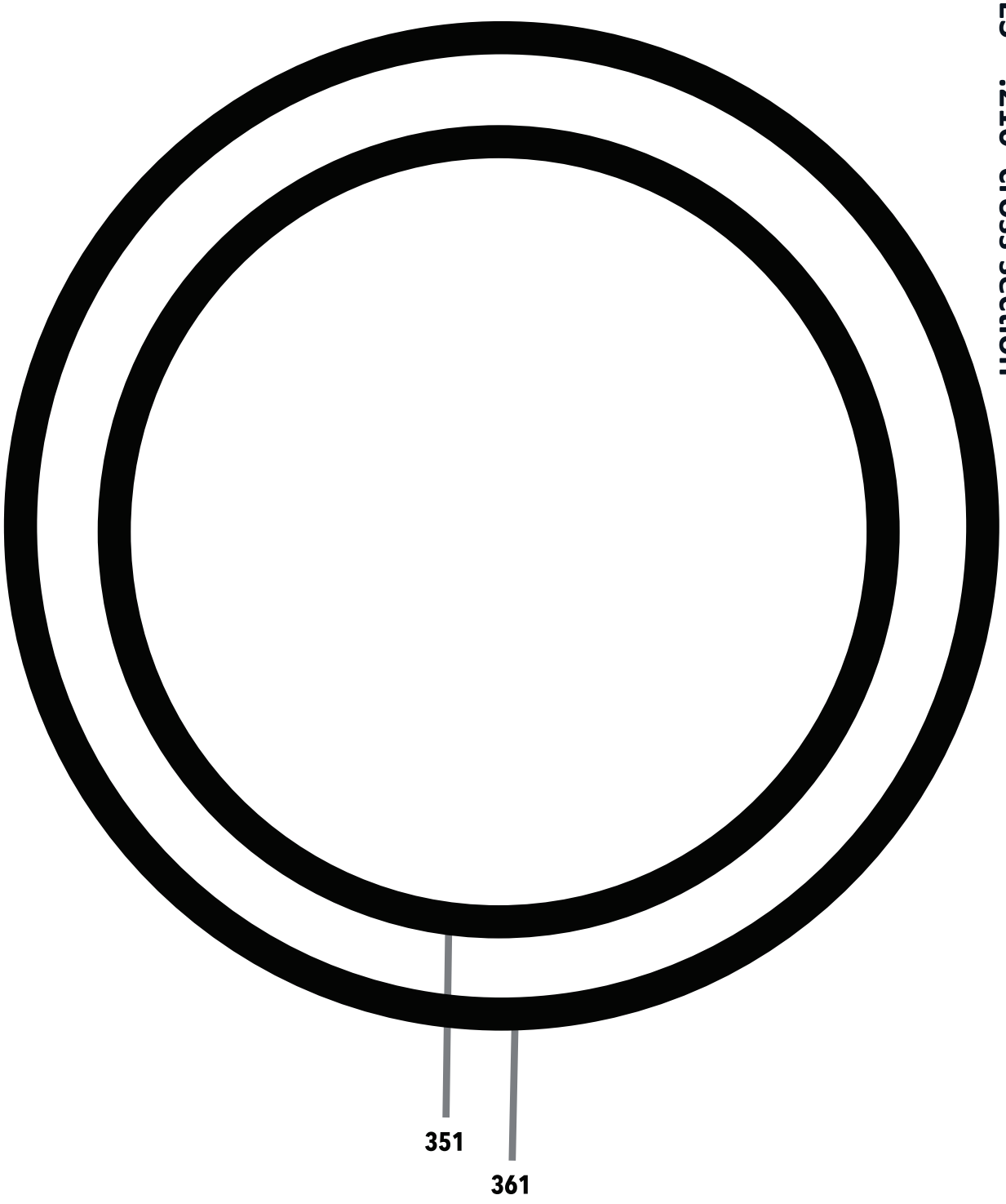
300 SERIES – .210 cross section



300 SERIES 351 361

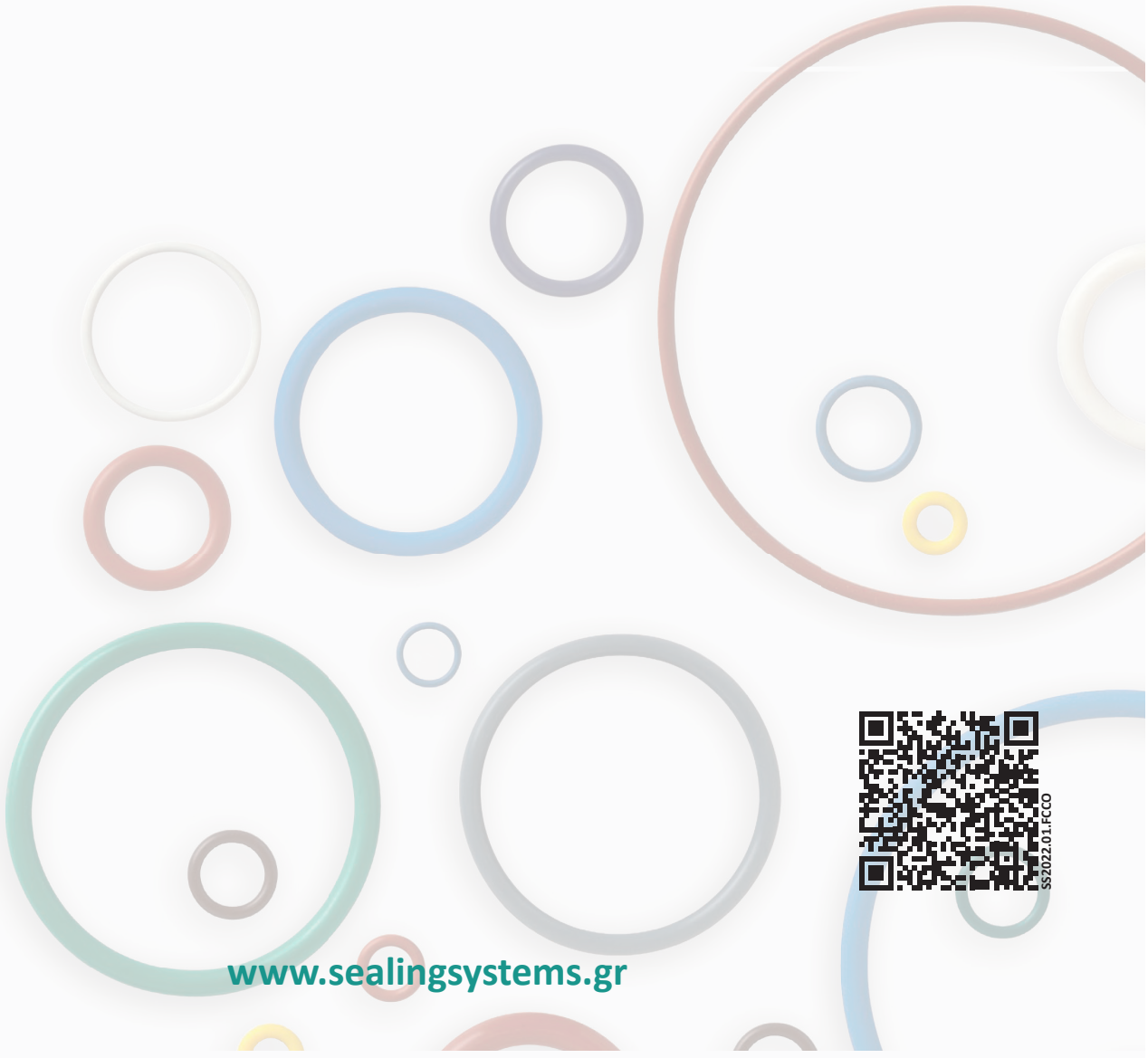
300 SERIES IS SPACED IN TEN NUMBER INCREMENTS

300 SERIES – .210 cross section



SEALING SYSTEMS

Engineering Equipment for Sanitary Applications



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