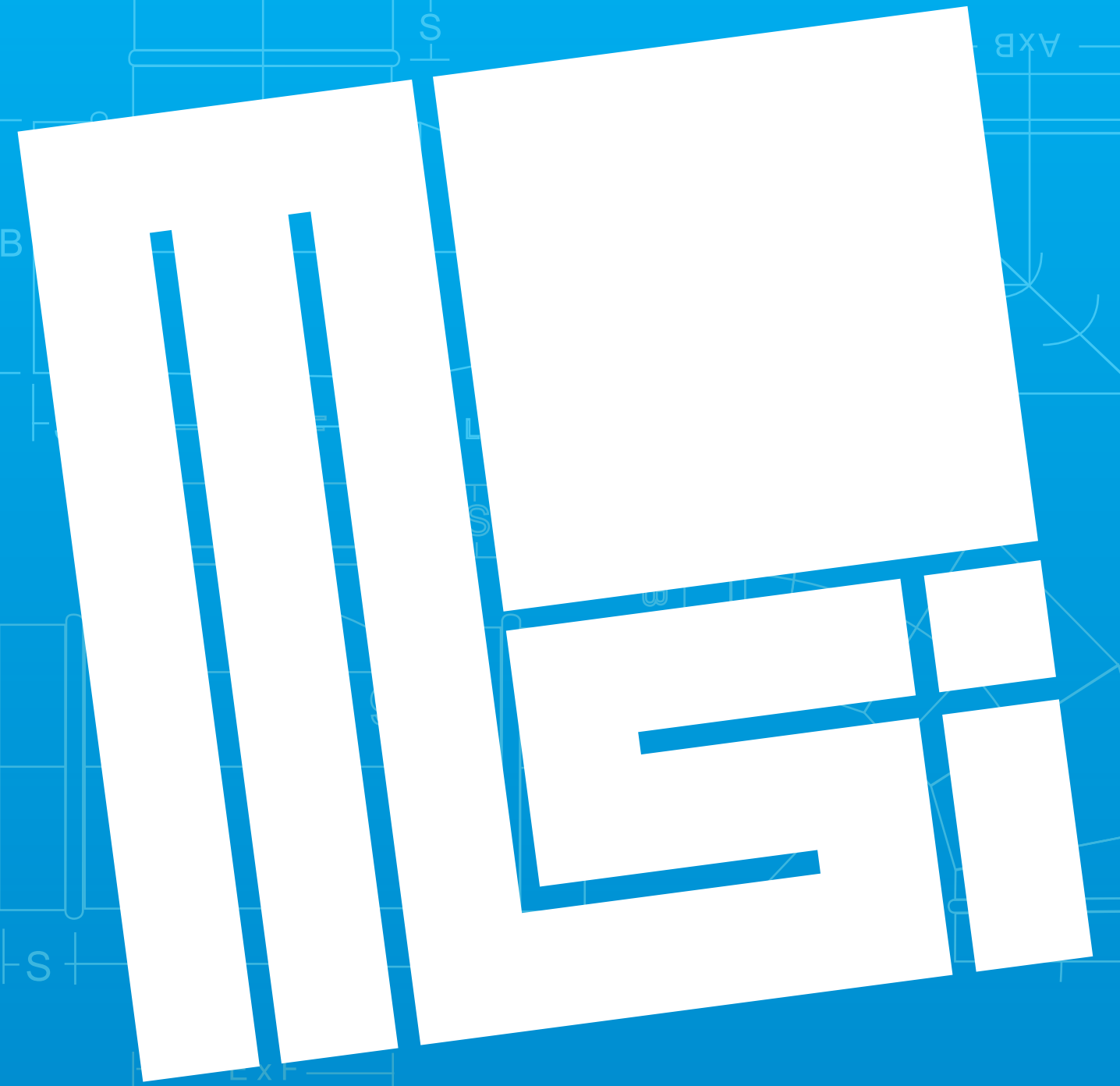




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SPIRAL SPECIFICATIONS

FLAT OVAL AND ROUND

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FLAT OVAL AND ROUND SPIRAL

Flat Oval Duct Description

Flat oval spiral duct has been designed to be used in a multitude of applications where architecturally sound visibility is necessary or space restricts the use of round spiral duct. Flat oval spiral duct is fabricated using a lock seam method, with a double bead in between each lock seam to reinforce its strength and durability. Refer to the chart below for specific materials, gauges and lengths.

Material	Thickness	ASTM	Type	Length
Galvanized	26-16 Gauge	A-653	G60 – G90	1' to 10'
Paint Grip	24-18 Gauge	A-653	A60	1' to 10'
Aluminum	24-16 Gauge	B-316	3003 H-14	1' to 10'
Stainless Steel	24-20 Gauge	A-240	304 or 316	1' to 10'

Flat Oval Recommended Size and Gauge Chart Below.

Major Dimension Duct Width	Spiral Seamduct Gauge	Gauges of Fittings
4" to 24"	24	24
26" to 36"	22	22
38" to 48"	22	20
50" to 60"	20	20
62" to 70"	20	18
72" and up	18	18



FLAT OVAL AND ROUND SPIRAL CONNECTOR



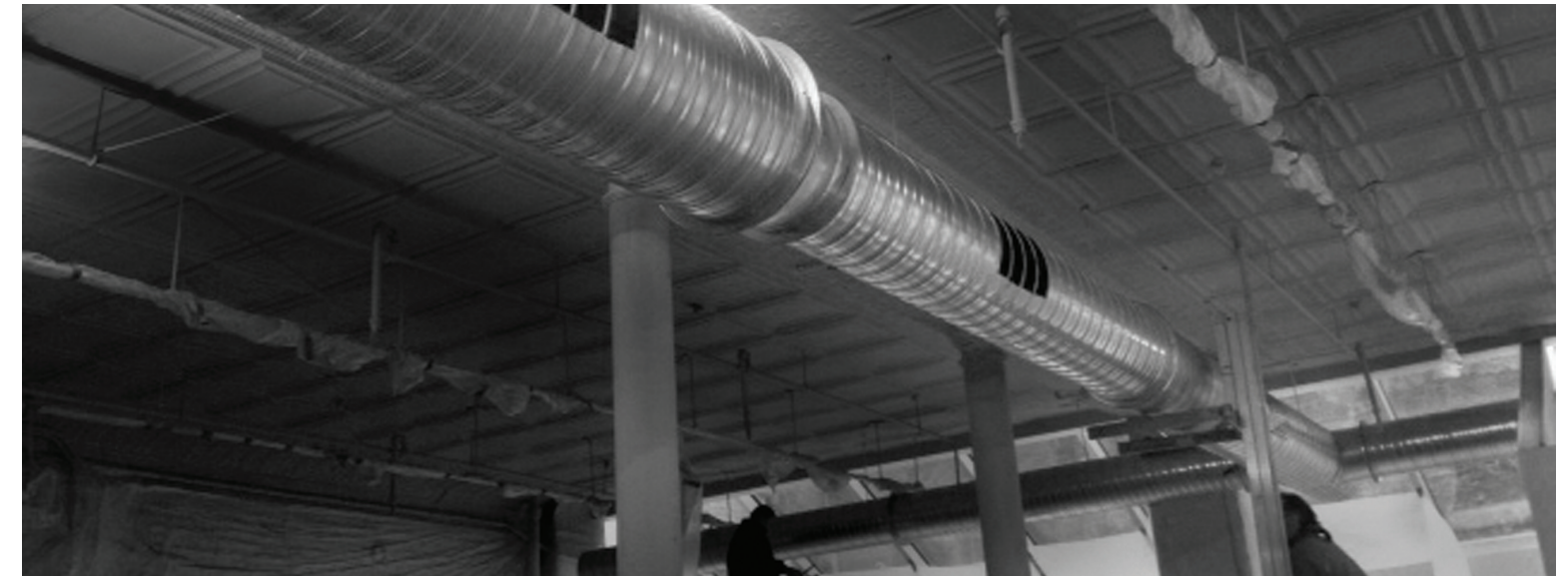
Ring Connection

Mason Scott Industries flanged ring connectors are fabricated from 16 gauge material matching the type of material used for the round or flat oval spiral duct in your order. These flanges are used for assembling round and flat oval spiral duct and fittings. They are attached to the end of the duct with mechanical fasteners. When the ring connection is provided for double wall round and flat oval spiral duct or fittings, a secondary factory installed flange is affixed. This keeps the inner liner concentric and eliminates the need to make an additional connection at the inner wall.



Coupling Connection

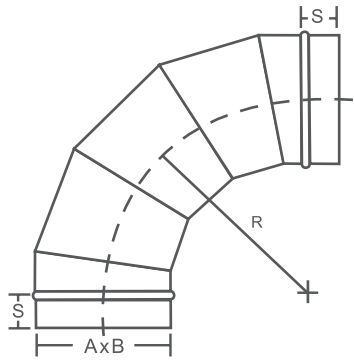
Pipe to pipe connections are made by using a fitting sized coupling that slips inside the mating duct sections. A stop bead runs around the middle of the coupling which is then centered between connections. Secure the connection by using mechanical fasteners, 1/2" back from the stop bead.



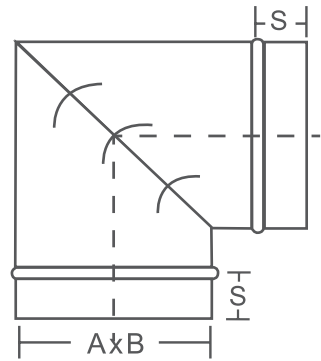
FLAT OVAL AND ROUND SPIRAL FITTINGS

FLAT OVAL AND ROUND SPIRAL FITTINGS

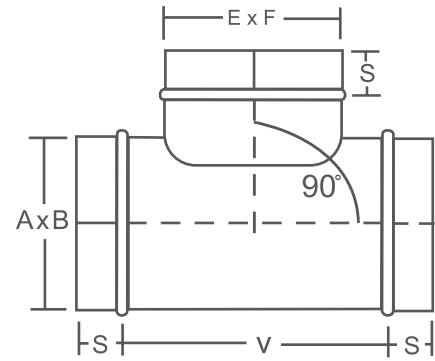
FOE-90-5 | FOE-60-4 | FOE-45-3



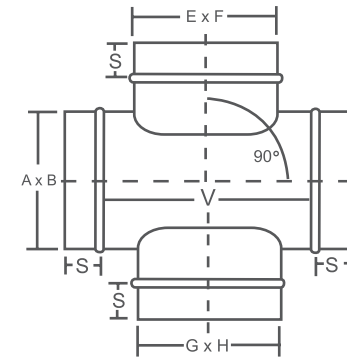
FOE-90-2 Mitered 90°



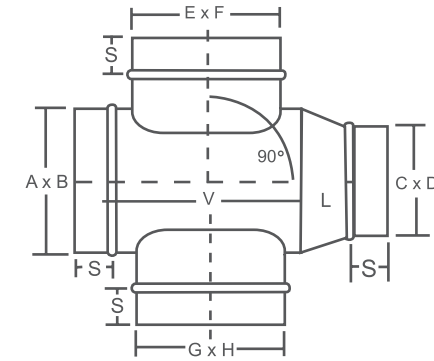
FOT-1 Straight Tee



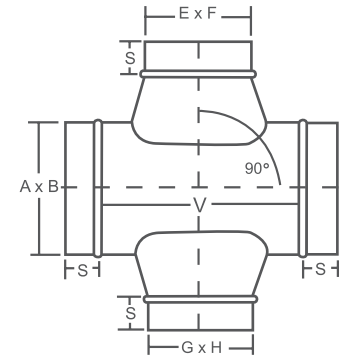
FOC-2 Cross



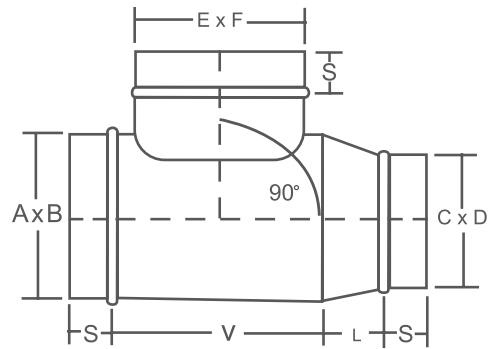
FOC-2R Reducing Cross



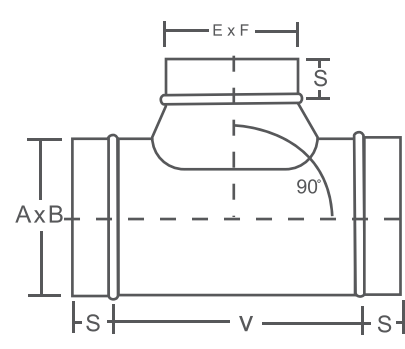
FOCON-C-2 Conical Cross



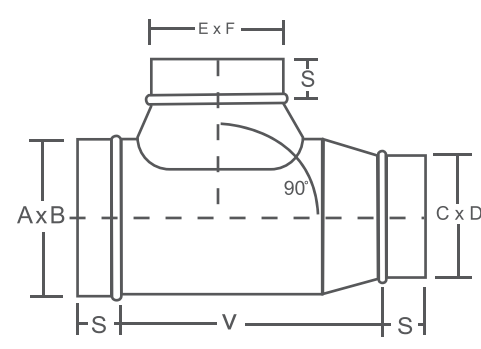
FOT-1R Reducing Tee



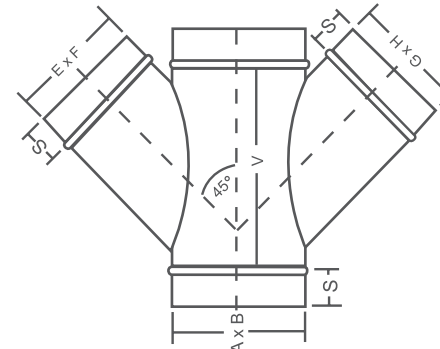
FOCON-T-1 Conical Tee



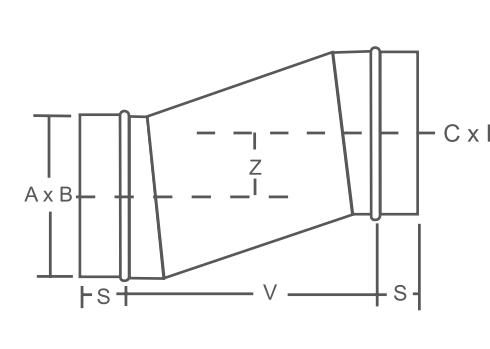
FOCON-T-1R Reducing Conical Tee



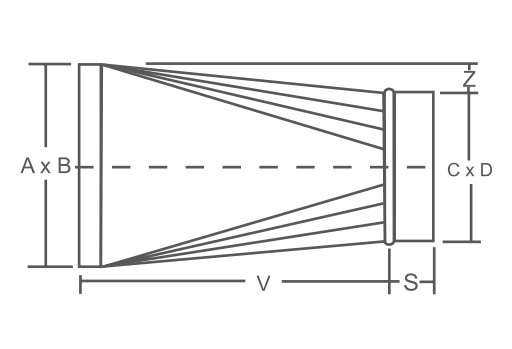
FOLC-2 Lateral Cross



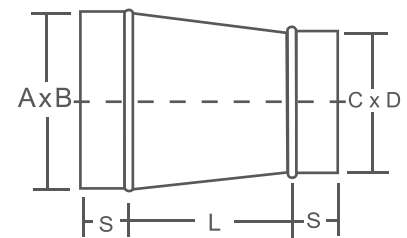
FOSET Offset



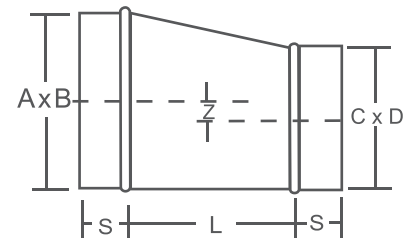
FOTREC or FOTRND Oval to Rectangular Oval to Round



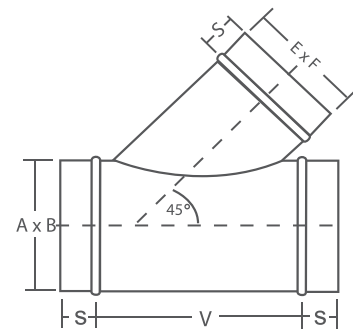
FOR Concentric Reducer



FOER Eccentric Reducer



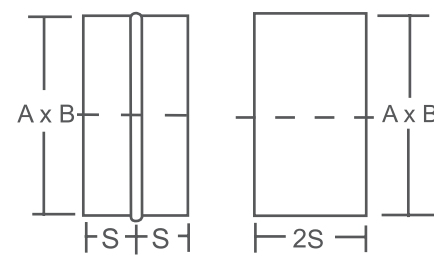
FOL-1 Lateral



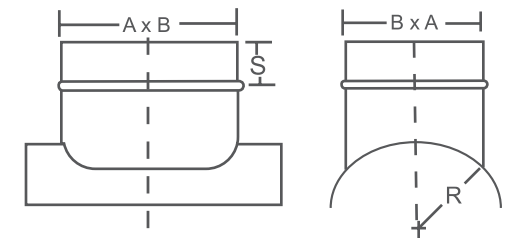
FON-1 for Pipe
FON-2 for Fitting End Cap



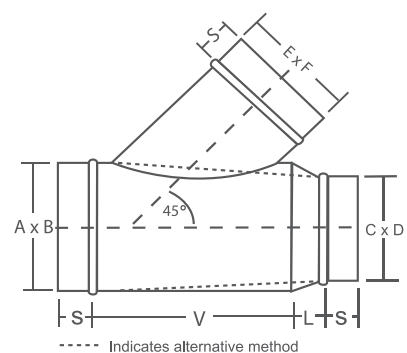
FOS-1 for Pipe FOS-2 for Fitting Coupling



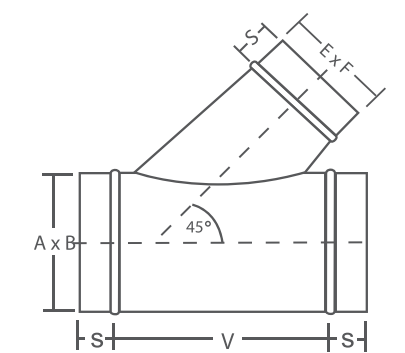
FOST Saddle Tap



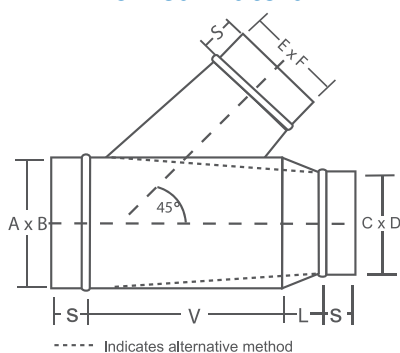
FOL-1R Reducing Lateral



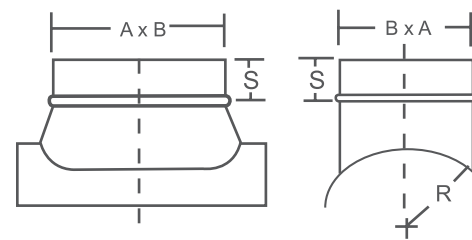
FOCON-L-1 Conical Lateral



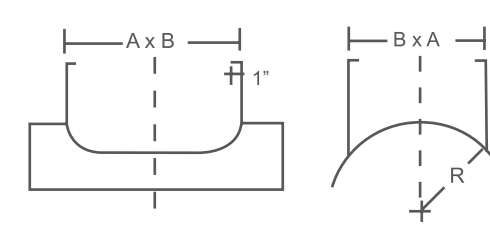
FOCON-L-1 Reducing Conical Lateral



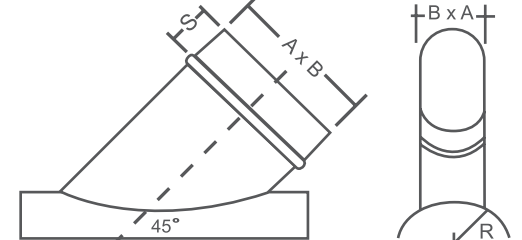
FOCST Conical Saddle Tap



FOGBT Grille Box Tap



FOLST Lateral Saddle Tap



MATERIAL AND GAUGE CAPACITIES

Aluminum: 24 thru 18 ga. (0.6 thru 1.2mm)
 Galvanized Steel: 28 thru 18 ga. (0.4 thru 1.2mm)
 Paint Grip: 28 thru 18 ga. (0.4 thru 1.2mm)

Minor Axis	6	8	10	12	14	16	18	20	22	24	
Stock Diameter											
16	21.8										24 Gauge
17	23.4	22.2	21.1	19.9							
18	25	23.8	22.7	21.5	20.3						
19	26.6	25.4	24.1	23.1	21.9	20.7					
20	28.1	27.0	25.8	24.7	23.5	22.3	21.2				
22	31.3	30.1	29.0	27.8	26.7	25.5	24.3	23.2			
24	34.5	33.3	32.1	31.0	29.8	28.7	27.5	26.3	25.2		
26	37.6	36.5	35.3	34.1	33.0	31.8	30.7	29.5	28.3	27.2	22 Gauge
28	40.8	39.6	38.5	37.3	36.1	35.0	33.8	32.7	31.5	30.3	
30	44.0	42.8	41.6	40.5	39.3	38.1	37.0	35.8	34.7	33.5	
32	47.1	46.0	44.8	43.6	42.5	41.3	40.1	39.0	37.8	36.7	
34	50.3	49.1	48.0	46.8	45.6	44.5	43.3	42.1	41	39.8	
36	53.5	52.3	51.1	50.0	48.8	47.6	46.5	45.3	44.1	43.0	
38	56.6	55.5	54.3	53.1	52	50.8	49.6	48.5	47.3	46.1	
40	59.8	58.6	57.5	56.3	55.1	54	52.8	51.6	50.5	49.3	20 Gauge
42	62.9	61.8	60.6	59.5	58.3	57.1	56.0	54.8	53.6	52.5	
44	66.1	64.9	63.8	62.6	61.5	60.3	59.1	58.0	56.8	55.6	
46	69.3	68.1	66.9	65.8	64.6	63.5	62.3	61.1	60.0	58.8	
48	72.4	71.3	70.1	68.9	67.8	66.6	65.5	64.3	63.1	62.0	
50	75.6	74.4	73.3	72.1	70.9	69.8	68.6	67.5	66.3	65.1	
52	78.8	77.6	76.4	75.3	74.1	72.9	71.8	70.6	69.5	68.3	
54	81.9	80.8	79.6	78.4	77.3	76.1	74.9	73.8	72.6	71.5	18 Gauge
56			82.8	81.6	80.4	79	78.1	76.9	75.8	74.6	
58						82.4	81.3	80.1	78.9	77.8	
60								83.3	82.1	80.9	

MATERIAL AND GAUGE CAPACITIES

Minor Axis	150	200	255	305	355	405	455	510	560	610	
Stock Diameter	Major Axis										
406	556										0.8mm
432	596	567	535	506							
457	636	607	575	546	517						
483	676	647	615	586	557	528					
508	716	687	655	626	597	568	539				
559	797	768	736	706	677	648	619	587			
610	877	848	816	787	758	729	700	668	638		
660	957	928	896	867	838	809	780	748	719	690	0.9mm
711	1038	1009	977	948	918	889	860	828	799	770	
762	1118	1089	1057	1028	999	970	941	909	880	850	
718	1198	1169	1137	1108	1079	1050	1021	989	960	931	
864	1279	1250	1218	1189	1159	1130	1101	1069	1040	1011	
914	1359	1330	1298	1269	1240	1211	1182	1150	1121	1091	
956	1439	1410	1378	1349	1320	1291	1262	1230	1201	1172	
1016	1520	1491	1549	1430	1401	1371	1342	1310	1281	1252	1.2mm
1067	1600	1571	1539	1510	1481	1452	1423	1391	1362	1333	
1118	1681	1651	1619	1590	1561	1532	1503	1471	1442	1413	
1168	1761	1732	1700	1671	1642	1613	1583	1551	1522	1493	
1219	1841	1812	1780	1751	1722	1693	1664	1632	1603	1574	
1270	1922	1893	1861	1831	1802	1773	1744	1712	1683	1654	
1321	2002	1973	1941	1912	1883	1854	1825	1793	1763	1734	
1372	2082	2053	2021	1992	1963	1934	1905	1873	1844	1815	
1422			2102	2072	2043	2014	1985	1953	1924	1895	
1473						2095	2066	2034	2004	1975	
1524								2114	2085	2056	