



FRANKLIN SILENCERS LTD.

Quality Exhaust Systems and Manipulated Tubular Components

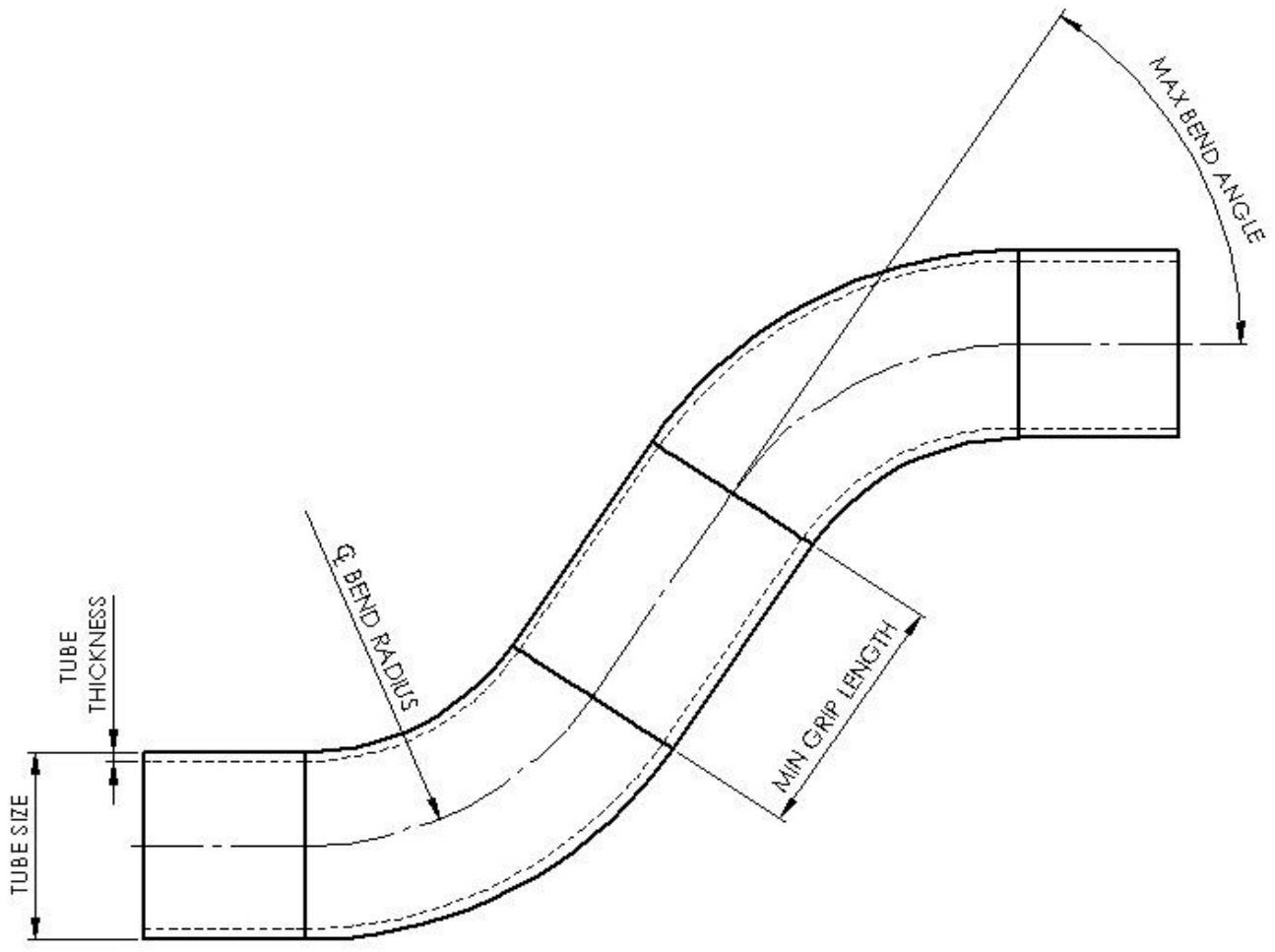
Bending Capability List

Tube Size		Centre Line Bend Radius	Minimum Grip Length	Maximum Bend Angle	Tube Thickness (Mandrel)			
Metric	Imperial				10g	14g	16g	18g
4.60	-	12	7	180	Please Contact With Requirments			
8.00	-	29	42	180	Please Contact With Requirments			
9.53	3/8	35	26	180	Please Contact With Requirments			
10.00	-	10	40	105			X	X
10.00	-	25	22	180			X	X
10.00	-	35	40	180			X	X
12.00	-	15	41	125			X	X
12.00	-	25	25	180			X	X
12.00	-	30	16	180			X	X
12.00	-	50	60	180			X	X
12.00	-	78	33	180			X	X
12.00	-	125	38	180			X	X
12.70	1/2	25	20	180			X	X
12.70	1/2	31.7	32	180			X	X
12.70	1/2	38	32	180			X	X
12.70	1/2	40	24	180			X	X
12.70	1/2	56	20	180			X	X
12.70	1/2	80	23	180			X	X
12.70	1/2	143	53	180			X	X
14.00	-	25	23	180	X	X	X	X
14.00	-	30	48	180	X	X	X	X
14.00	-	40	22	180	X	X	X	X
15.00	-	22.5	25	180	X	X	X	X
15.00	-	30	22	180	X	X	X	X
15.00	-	40	63	180	X	X	X	X
15.87	5/8	25	32	160	X	X	X	X
15.87	5/8	60	58	180	X	X	X	X
15.87	5/8	80	53	180	X	X	X	X
15.87	5/8	82	53	180	X	X	X	X
16.00	-	30	30	180	X	X	X	X
16.00	-	33	31	180	X	X	X	X
16.00	-	45	40	180	X	X	X	X
16.00	-	50	63	180	X	X	X	X
18.00	-	33	33	180	X	X	X	X
18.00	-	47	33	180	X	X	X	X
18.00	-	55	40	180	X	X	X	X
18.00	-	90	33	180	X	X	X	X

Tube Size		Centre Line Bend Radius	Minimum Grip Length	Maximum Bend Angle	Tube Thickness (Mandrel)			
Metric	Imperial				10g	14g	16g	18g
19.05	3/4	51	52	180	X	X	X	X
19.05	3/4	33	52	180	X	X	X	X
19.05	3/4	35	53	180	X	X	X	X
19.05	3/4	38	52	180	X	X	X	X
19.05	3/4	40	40	180	X	X	X	X
19.05	3/4	45	52	170	X	X	X	X
19.05	3/4	60	35	180	X	X	X	X
19.05	3/4	73	50	180	X	X	X	X
19.05	3/4	100	53	180	X	X	X	X
19.05	3/4	110	53	180	X	X	X	X
19.05	3/4	114	112	180	X	X	X	X
19.05	3/4	152	52	180	X	X	X	X
20.00	-	25	40	170	X	X	X	X
20.00	-	30	40	180	X	X	X	X
20.00	-	35	52	180	X	X	X	X
20.00	-	50	55	180	X	X	X	X
22.20	7/8	30	47	170	X	X	X	X
22.20	7/8	30	63	180	X	X	X	X
22.20	7/8	35	80	170	X	X	X	X
22.20	7/8	40	52	180	X	X	X	X
22.20	7/8	43	60	180	X	X	X	X
22.20	7/8	50	55	180	X	X	X	X
22.20	7/8	56	50	180	X	X	X	X
22.20	7/8	63	50	180	X	X	X	X
22.20	7/8	70	43	180	X	X	X	X
22.20	7/8	75	40	180	X	X	X	X
22.20	7/8	81	65	180	X	X	X	X
22.20	7/8	145	28	180	X	X	X	X
22.20	7/8	160	105	180	X	X	X	X
25.40	1	38	52	180	X	X	X	X
25.40	1	42.5	52	180	X	X	X	X
25.40	1	44.5	52	180	X	X	X	X
25.40	1	51	40	180	X	X	X	X
25.40	1	63	55	180	X	X	X	X
25.40	1	75	62	180	X	X	X	X
25.40	1	87	53	180	X	X	X	X
25.40	1	90	70	180	X	X	X	X
25.40	1	146	63	180	X	X	X	X
25.40	1	205	68	180	X	X	X	X
25.40	1	63	50	180			X	
26.98	1 1/6	38	53	180	X	X	X	X
26.98	1 1/6	43	53	180	X	X	X	X
26.98	1 1/6	51	60	180	X	X	X	X
26.98	1 1/6	114	76	180	X	X	X	X
25.40	1	100	53	180	X	X	X	X
25.40	1	146	63	180	X	X	X	X
25.40	1	205	68	180	X	X	X	X
25.40	1	63	50	180			X	

Tube Size		Centre Line Bend Radius	Minimum Grip Length	Maximum Bend Angle	Tube Thickness (Mandrel)			
Metric	Imperial				10g	14g	16g	18g
28.60	1 1/8	51	82	180	X	X	X	X
28.60	1 1/8	55	55	180				X
28.60	1 1/8	73	55	180				X
28.60	1 1/8	75	40	180	X	X	X	X
28.60	1 1/8	100	75	180	X	X	X	X
30.00	-	85	40	180	X	X	X	X
30.00	-	125	53	180	X	X	X	X
30.00	-	152	80	180	X	X	X	X
31.70	1 1/4	38	65	180		X		X
31.70	1 1/4	63	75	180		X		X
31.70	1 1/4	68	53	180		X		X
31.70	1 1/4	85	70	180		X		X
31.70	1 1/4	90	70	180		X		X
31.70	1 1/4	100	70	180		X		X
31.70	1 1/4	114	70	180		X		X
31.70	1 1/4	125	70	180		X		X
31.70	1 1/4	140	80	180		X		X
31.70	1 1/4	152	80	180		X		X
34.90	1 3/8	45	53	180		X		X
34.90	1 3/8	53	53	180		X		X
34.90	1 3/8	63	50	180		X		X
34.90	1 3/8	65	56	180		X		X
34.90	1 3/8	76	80	180		X		X
34.90	1 3/8	102	92	180		X		X
38.10	1 1/2	50	68	170			X	X
38.10	1 1/2	52	90	150		X	X	
38.10	1 1/2	73	75	180		X	X	X
38.10	1 1/2	89	70	180			X	X
38.10	1 1/2	95	75	180		X	X	X
38.10	1 1/2	113	80	180			X	X
38.10	1 1/2	115	80	180			X	X
38.10	1 1/2	118	135	180			X	X
38.10	1 1/2	170	100	180			X	X
41.20	1 5/8	52	90	180			X	
41.20	1 5/8	75	75	180			X	X
44.40	1 3/4	44.4	78	180	X	X	X	
44.40	1 3/4	52	78	170	X	X	X	
44.40	1 3/4	76	75	180	X	X	X	X
44.40	1 3/4	120	120	180	X	X	X	X
47.60	1 7/8	55	95	120			X	
47.60	1 7/8	89	102	180			X	X
50.80	2.00	50.8	90	170		X	X	
50.80	2	76	95	170		X	X	X
50.80	2	89	95	180		X	X	X
57.10	2 1/4	57	114	175			X	
57.10	2 1/4	71.6	110	155			X	
57.10	2 1/4	127	125	180		X	X	

Tube Size		Centre Line Bend Radius	Minimum Grip Length	Maximum Bend Angle	Tube Thickness (Mandrel)			
Metric	Imperial				10g	14g	16g	18g
63.50	2 1/2	63.5	75	120		X	X	
63.50	2 1/2	121	115	180		X	X	X
69.80	2 3/4	146	125	180			X	X
76.20	3	76.2	140	118		X	X	
76.20	3	114	140	145		X	X	
76.20	3	178	140	110		X	X	
88.90	3 1/2	114.3	269	120			X	
101.60	4	101.6	253	100	X	X	X	
101.60	4	152	304	115	X	X	X	
114.30	4 1/2	125	345	100			X	
127.00	5	140	380	120		X	X	



This tooling list has been generated as a design aid for customers wishing to utilise our standard bending tooling.
 For sizes that are required but are not specified please contact us to discuss your bespoke requirements.
 The column marked "minimum grip length" represents the minimum straight length between bends to avoid welded joints.