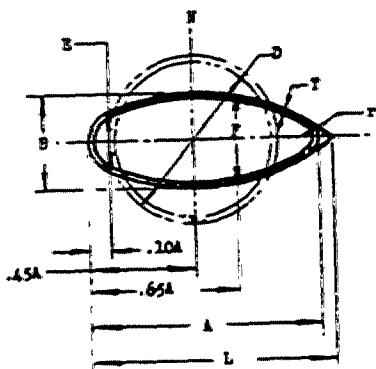
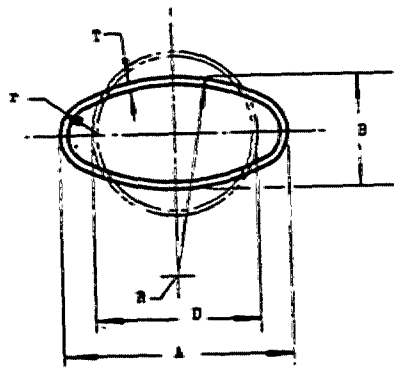


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STREAMLINE



OVAL

FORMULAS FOR DETERMINING MINIMAL TUBING DIMENSIONS

D = DIAMETER OF ROUND TUBING

(SHAPES PRODUCED BY DRAWING PROCESS)

STREAMLINE		OVAL	
DESIGN REFERENCE DIMENSIONS	INSPECTION REFERENCE DIMENSIONS	DESIGN REFERENCE DIMENSIONS	INSPECTION REFERENCE DIMENSIONS
N = NEUTRAL AXIS AT .45A	A = 1.3486D	$B = \frac{A}{2}$	A = 1.30D
L = CONSTRUCTION POINT = 2.5B	B = .9714D	B = 1.10D APPROX RAD	B = .65D
r = .1065D APPROX	E = .411D	r = .206D APPROX RAD	
	F = .457D		

DASH NUMBERS	DIMENSIONS								
	DIAMETER D		(a) WALL THICKNESS T	WIDTH A MAJOR AXIS		WIDTH B MINOR AXIS		WIDTH E	WIDTH F
	STREAMLINE	OVAL		STREAMLINE	OVAL	STREAMLINE	OVAL	STREAMLINE	STREAMLINE
S16	16	1.00	.035	1.349	1.300	.571	.650	.411	.457
S20	20	1.25	.035	1.663	1.625	.714	.812	.514	.572
S24	24	1.50	.035	2.023	1.950	.857	.975	.617	.686
S28	28	1.75	.049	2.360	2.275	1.000	1.138	.720	.801
S32	32	2.00	.049	2.697	2.600	1.143	1.300	.823	.916
S36	36	2.25	.058	3.035	2.925	1.286	1.462	.926	1.030
S40	40	2.50	.058	3.372	3.250	1.429	1.625	1.029	1.145
S44	44	2.75	.065	3.708	3.575	1.571	1.787	1.131	1.258
S48	48	3.00	.065	4.045	3.900	1.714	1.950	1.234	1.373
S52	52	3.25	.083	4.383	4.225	1.857	2.113	1.337	1.487
S56	56	3.50	.083	4.720	4.550	2.000	2.275	1.440	1.602
S60	60	3.75	.083	5.057	4.875	2.143	2.437	1.543	1.717
S64	64	4.00	.083	5.394	5.200	2.285	2.600	1.645	1.830
S68	68	4.25	.095	5.732	5.525	2.428	2.762	1.748	1.945
S72	72	4.50	.095	6.069	5.850	2.571	2.925	1.851	2.059
S76	76	4.75	.125	6.406	6.175	2.714	3.087	1.954	2.174
S80	80	5.00	.125	--	6.500	--	3.250	--	--

(a) WALL THICKNESS AS SHOWN IS THE MINIMUM THICKNESS AVAILABLE.

FOR SIZES OTHER THAN STANDARD THE PROCURING ACTIVITY SHALL PROVIDE A DRAWING WITH INVITATIONS AND CONTRACTS.

DIMENSIONS IN INCHES

THIS IS A DESIGN STANDARD, NOT USED AS A PART NUMBER.

CUSTODIAN Navy - QuAer  
Air Force  
PROCUREMENT SPECIFICATION NONE

MILITARY STANDARD  
STANDARD DIMENSIONS FOR STREAMLINE AND OVAL TUBULAR SHAPES

MS33534(ASG)

SHEET 1 OF 1

SUPPERSEDES ANDI1112

01 28116

APPROVED 26 Jan 1953 REVISED