



## Double-Wall Flat Oval – 1995 SMACNA Standards

### Positive Pressure to 10"

#### Standard Gauge Chart

##### Outer Pressure Shell (O.D.)

Major Axis	Spiral Pipe	Longseam Pipe	Fittings
to 24"	24	20	20
25" – 36"	22	20	20
37" – 48"	22	18	18
49" – 60"	20	18	18
61" – 70"	20	16	16
71" & Up	16	16	16

##### Inner Liner (I.D.)

Major Axis	Spiral Pipe	Longseam Pipe	Fittings
to 24"	24	20	24
25" – 36"	24	20	24
37" – 48"	24	18	22
49" – 60"	24	18	22
61" – 70"	24	16	20
71" & Up	22	16	20

One inch insulation layer to meet requirements set forth in NFPA pamphlet #90A (catalogue NFPA #255) as to flame spread and smoke developed ratings, K-value at 75 degree M.T. = 26 BTU. reinforcing/hangers.

#### Available Materials

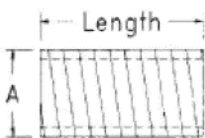
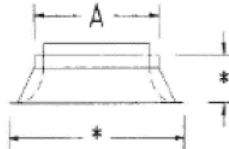
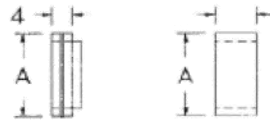

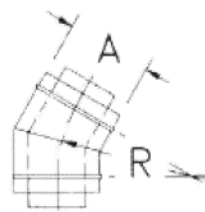
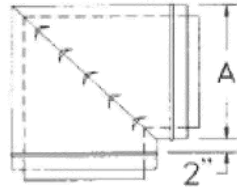
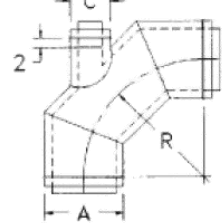
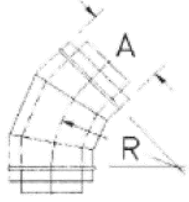
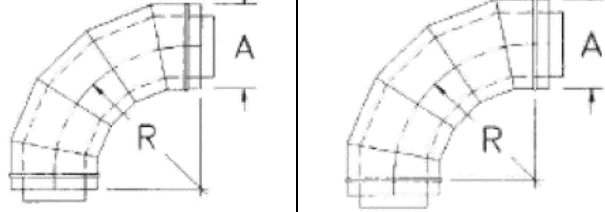
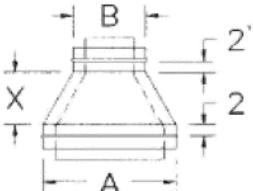
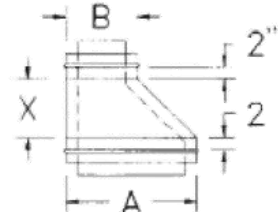
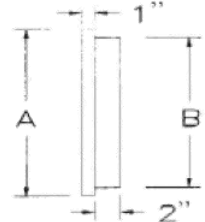
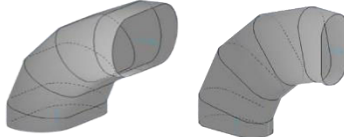
G90 Galvanized  
 Phosphatized (Galvanneal)  
 304 Stainless Steel  
 316 Stainless Steel  
 PCD (Polyvinyl Coated Galvanized)  
 3003 Aluminum  
 SPOT AglION™ (Antimicrobial)

Flat Oval ducts are recommended for positive pressure applications only.

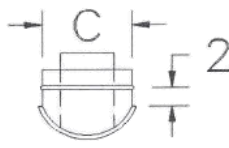
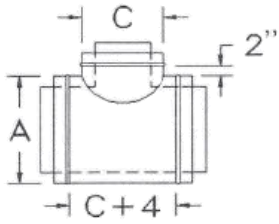
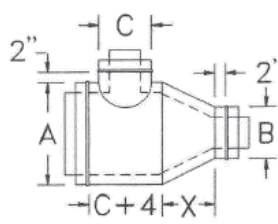
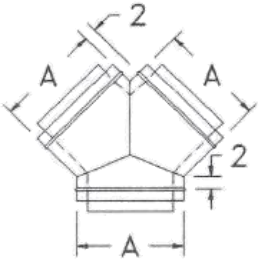
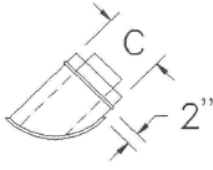
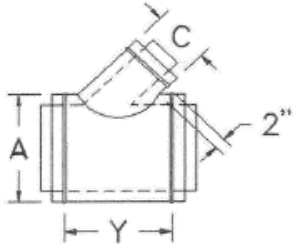
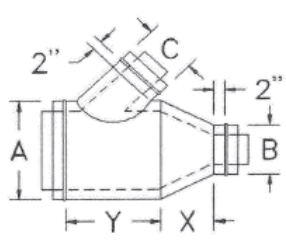
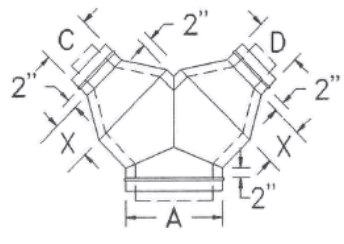
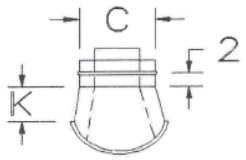
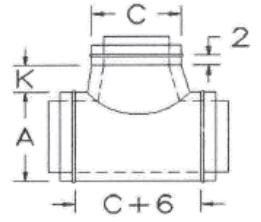
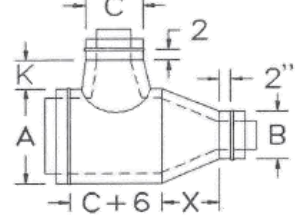
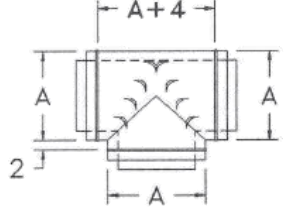
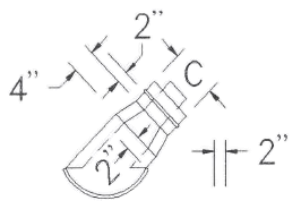
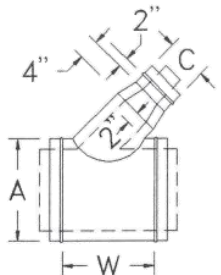
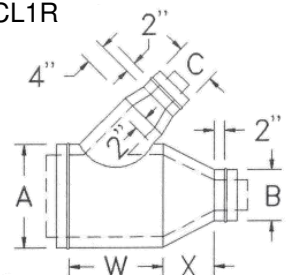
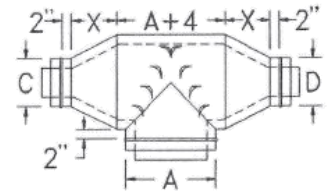
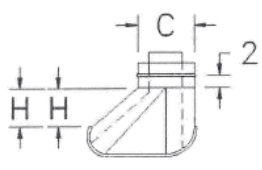
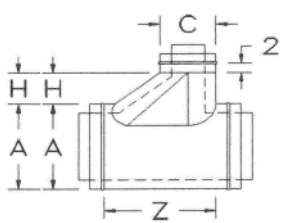
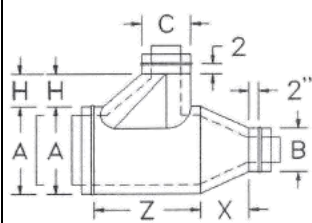
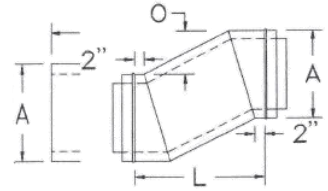
Standard fittings to be spot welded and sealed. Continuously welded seam fittings are available if specified. All PCD and SPOT AglION fittings are riveted and sealed. Inner liner can be solid or perforated. Perforated material to have 3/32" holes and 3/16" staggered centers for a 23% open area.

Spiral Pipe of Texas products are manufactured in accordance with the latest SMACNA, ASHRAE, and SPIDA standards. In an on-going effort to improve our products, Spiral Pipe of Texas reserves the right to revise the design and/or specifications of its products as technology advances or applicable standards change.

### Double-Wall Flat Oval Spiral Pipe and Fitting Standards

Dimensions			
A = Inlet**** B = Outlet**** C = Branch**** D = Branch**** H = 3" if C = 3" to 8" 6" if C = 9" to 16" 9" if C = 17" to 24" 12" if C = 25" & Up		K = 5 1/4" L = Offset Length O = Offsetting Amount R = 1.5 x A S = 2 T = A/4 + 2 U = A x 2 + 2 **Dimension of Liner = O.D. - (2 x Insulations Thickness) ***End of Liner Extends 2" Past Ends of Fittings ****(Minor X Major <b>OR</b> Major X Minor)	
$V = (A/2 \times 1.414) + ((C + 2)/2) + 6$ $W = (C + 2) \times 1.414 + 4$ $X = 12"$ if A - B = 18" or Less 24" if A - B = 19" or Greater $Y = (1.414 \times C) + 4$ $Z = C + H + 4$ * = Consult Factory			
SP	B1	PP	FF
			
Spiral Pipe	Bellmouth	Couplings	Caps & Plug
E1 Thru E36		EV90	ET90
			
A = 3" Thru 24"		A = 3" Thru 60"	A = 3" Thru 60"
2 Gore Elbows		Mitered Elbow	Elbow w/ Tap
E37 Thru E71		E72 Thru E90	
			
A = 3" Thru 24"		A = 3" Thru 24"	
3 Gore Elbows		5 Core Elbows	
R1	ER1	SD	
			
Reducers	Stepdown	Easy Hard Bends	

### Double-Wall Flat Oval Spiral Pipe and Fitting Standards

LT 	T1 	T1R 	Y2 
<b>Straight 90 Degree Tees</b>			<b>"Y" Fitting</b>
LL 	L1 	L1R 	Y2R 
<b>45 Degree Lateral Tees</b>			<b>Reducing "Y" Fitting</b>
LCT 	CT1 	CT1R 	BT 
<b>Conical 90 Degree Tees</b>			<b>Bullhead Tee</b>
LCL 	CL1 	CL1R 	BTR 
<b>Conical 45 Degree Lateral Tees</b>			<b>Reducing Bullhead</b>
LLL 	LL1 	LL1R 	SET 
<b>Low Loss 90 Degree Tees</b>			<b>Offset</b>



SIZE	
Minor Axis	Major Axis
3	14
3	16
3	17
3	19
3	20
3	22
3	23
3	25
3	27
3	28
3	30
3	31
3	33
3	34
3	36
3	38
3	39
3	42
3	45
3	49
3	52
3	55
3	58
3	61
3	64
3	67
3	71
3	74
3	77

4	15
4	17
4	18
4	20
4	21
4	23
4	24
4	26
4	28
4	29
4	31
4	32
4	34
4	35
4	37

SIZE	
Minor Axis	Major Axis
4	39
4	42
4	45
4	48
4	51
4	54
4	57
4	61
4	64
4	67
4	70
4	73
4	76

5	13
5	14
5	16
5	18
5	19
5	21
5	22
5	24
5	25
5	27
5	29
5	30
5	32
5	33
5	35
5	36
5	38
5	41
5	44
5	48
5	51
5	54
5	57
5	60
5	63
5	66
5	69
5	73
5	76
5	79

SIZE	
Minor Axis	Major Axis
6	14
6	15
6	17
6	19
6	20
6	22
6	23
6	25
6	26
6	28
6	30
6	31
6	33
6	34
6	36
6	37
6	41
6	44
6	47
6	50
6	53
6	56
6	59
6	63
6	66
6	69
6	72
6	75
6	78
6	81
6	85

8	14
8	16
8	18
8	19
8	21
8	22
8	24
8	25
8	27
8	29
8	30
8	32
8	33

SIZE	
Minor Axis	Major Axis
8	35
8	36
8	37
8	39
8	42
8	46
8	49
8	52
8	55
8	58
8	61
8	64
8	65
8	68
8	71
8	74
8	77
8	80
8	83

10	15
10	16
10	18
10	20
10	21
10	23
10	24
10	26
10	28
10	29
10	31
10	32
10	34
10	35
10	38
10	41
10	44
10	48
10	51
10	54
10	57
10	60
10	63
10	66
10	70

SIZE	
Minor Axis	Major Axis
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10	76
10	79
10	82
10	85

12	17
12	18
12	20
12	21
12	23
12	25
12	26
12	28
12	30
12	31
12	33
12	34
12	37
12	40
12	43
12	47
12	50
12	51
12	53
12	56
12	59
12	62
12	65
12	69
12	72
12	75
12	78
12	81
12	84

14	17
14	19
14	20
14	22
14	23
14	25
14	27
14	28
14	30



SIZE	
Minor Axis	Major Axis
14	32
14	33
14	36
14	37
14	39
14	42
14	45
14	49
14	52
14	55
14	58
14	61
14	64
14	67
14	71
14	74
14	77
14	80
14	83
14	86

16	19
16	21
16	22
16	24
16	25
16	27
16	29
16	30
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16	35
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16	41
16	44
16	47
16	51
16	54
16	57
16	60
16	61
16	63
16	66
16	69
16	73
16	76

SIZE	
Minor Axis	Major Axis
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16	82
16	85
16	88

18	21
18	23
18	24
18	26
18	27
18	29
18	31
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18	56
18	59
18	62
18	65
18	68
18	71
18	75
18	78
18	81
18	84
18	87
18	90

20	23
20	25
20	26
20	28
20	29
20	33
20	36
20	39
20	42
20	45
20	48
20	51
20	55

SIZE	
Minor Axis	Major Axis
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20	61
20	64
20	67
20	70
20	73
20	77
20	80
20	83
20	86
20	89
20	92
20	95
20	98
20	102
20	105
20	108
20	111
20	114
20	117
20	121
20	124
20	127

22	25
22	27
22	28
22	31
22	35
22	38
22	41
22	44
22	47
22	50
22	53
22	57
22	60
22	63
22	66
22	69
22	72
22	75
22	79
22	82
22	85

SIZE	
Minor Axis	Major Axis
22	88
22	91
22	94
22	97
22	101
22	104
22	107
22	110
22	113
22	116
22	119
22	122
22	126
22	129

24	27
24	30
24	33
24	37
24	40
24	43
24	46
24	49
24	52
24	55
24	59
24	62
24	65
24	68
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24	84
24	87
24	90
24	93
24	96
24	99
24	102
24	106
24	109
24	112
24	115
24	118

SIZE	
Minor Axis	Major Axis
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24	125
24	128

26	29
26	32
26	35
26	39
26	42
26	45
26	48
26	51
26	54
26	57
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26	92
26	95
26	98
26	101
26	105
26	108
26	111
26	114
26	117
26	120
26	123
26	127

28	31
28	34
28	37
28	41
28	44
28	47
28	50
28	53



SIZE	
Minor Axis	Major Axis
28	56
28	59
28	63
28	66
28	69
28	72
28	75
28	78
28	81
28	85
28	88
28	91
28	94
28	97
28	100
28	103
28	107
28	110
28	113
28	116
28	119
28	122
28	125
28	129

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30	58
30	61
30	65
30	68
30	71
30	74
30	77
30	80
30	83
30	87
30	90

SIZE	
Minor Axis	Major Axis
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30	96
30	99
30	102
30	105
30	109
30	112
30	115
30	118
30	121
30	124
30	127

32	35
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32	67
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32	92
32	95
32	98
32	101
32	104
32	107
32	111
32	114
32	117
32	120
32	123
32	126

SIZE	
Minor Axis	Major Axis
34	38
34	40
34	43
34	47
34	50
34	53
34	56
34	59
34	62
34	65
34	69
34	72
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34	122
34	125

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36	61
36	64
36	68
36	71
36	74
36	77
36	80
36	83

SIZE	
Minor Axis	Major Axis
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36	95
36	98
36	101
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36	108
36	111
36	115
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