

WM. H. BRADY, INC.

P.O. BOX 36 * ELKTON, MD * 21922-0036

(410) 398-4770 fax (410) 392-6165

RECOMMENDED METAL THICKNESS AND REINFORCEMENT FOR SINGLE WALL SPIRAL UNDER NEGATIVE PRESSURE W.G.				
DIAMETER	↓ 2" NEG.	3-4" NEG.	5-10" NEG.	10-20" NEG.
3-11"	26 ga	26 ga	26 ga	26 ga
12-13"	26 ga	26 ga	24 ga	24 ga
14"	26 ga	24 ga	24 ga	22 ga
15-19"	24 ga	24 ga	22 ga	20 ga
20-22"	24 ga	22 ga	22 ga	18 ga
23-24"	22 ga	22 ga	20 ga	18 ga
25-26"	22 ga	20 ga	20 ga	18 ga A/R 12' on ctr
27-30"	22 ga	20 ga	18 ga	18 ga A/R 6' on ctr
31-36"	20 ga	20 ga	18 ga	18 ga A/R 6' on ctr
37-42"	20 ga	18 ga	18 ga A/R 12' on ctr	18 ga A/R 4' on ctr
43-48"	20 ga	18 ga	18 ga A/R 6' on ctr	18 ga A/R 4' on ctr
52-60"	18 ga		18 ga A/R 6' on ctr	18 ga A/R 4' on ctr

Schedule is for spiral duct only. In order to maintain the pressure class, all fittings will be fabricated from a metal gauge 2 gauges heavier than the adjoining spiral duct. Flange connections are considered as reinforcement.

Standard joint for spiral duct is slip connection. As alternatives, we offer the following connections :

Ductmate Spiralmate Flange (see link)

Kirk and Blum Angle Rings (see link)

Accuflange Round and Oval Duct Connector (see link)

Wm. H. Brady, Inc. - Available Spiral Flat Oval Sizes

Other sizes available as rolled welded

SIZE	
Minor Axis	Major Axis
5	13
5	14.5
5	16
5	17.5
5	19.5
5	21
5	22.5
5	24
5	25.5
5	27
5	29
5	32
5	35
5	38
5	41.5
5	44.5
5	47.5
5	51
5	54
5	57
5	60.5
5	63.5
5	66.5
5	70
5	73
5	76

SIZE	
Minor Axis	Major Axis
6	14
6	15.5
6	17
6	18.5
6	20.5
6	22
6	23.5
6	25
6	26.5
6	28
6	31.5
6	34.5
6	37.5
6	41
6	44
6	47
6	50.5
6	53.5
6	56.5
6	60
6	63
6	66
6	69
6	72.5
6	75.5
6	79

SIZE	
Minor Axis	Major Axis
8	14.5
8	19
8	17.5
8	19
8	20.5
8	22.5
8	24
8	25.5
8	27
8	30
8	33.5
8	36.5
8	39.5
8	43
8	46
8	49
8	52.5
8	55.5
8	58.5
8	62
8	65
8	68
8	71.5
8	74.5
8	77.5
8	81

SIZE	
Minor Axis	Major Axis
10	15
10	16.5
10	18
10	19.5
10	21
10	23
10	24.5
10	26
10	29
10	32
10	35.5
10	38.5
10	41.5
10	45
10	48
10	51
10	54.5
10	57.5
10	60.5
10	64
10	67
10	70
10	73.5
10	76.5
10	79.5
10	83

SIZE	
Minor Axis	Major Axis
12	17
12	18.5
12	20
12	21.5
12	23
12	25
12	28
12	31
12	34.5
12	37.5
12	40.5
12	43.5
12	47
12	50
12	53
12	56.5
12	59.5
12	62.5
12	66
12	69
12	72
12	75.5
12	78.5
12	81.5
12	85

SIZE	
Minor Axis	Major Axis
14	17.5
14	19
14	20.5
14	22
14	23.5
14	27
14	30
14	33
14	36.5
14	39.5
14	42.5
14	46
14	49
14	52
14	55
14	58.5
14	61.5
14	64.5
14	68
14	71
14	74
14	77.5
14	80.5
14	83.5

SIZE	
Minor Axis	Major Axis
16	21
16	22.5
16	25.5
16	29
16	32
16	35
16	38.5
16	41.5
16	44.5
16	47.5
16	51
16	54
16	57
16	60.5
16	63.5
16	66.5
16	70
16	91
16	76
16	79.5
16	82.5
16	84.5

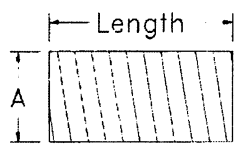
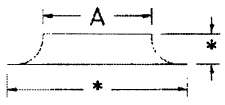



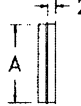
SIZE	
Minor Axis	Major Axis
18	21.5
18	24.5
18	27.5
18	31
18	34
18	37
18	40.5
18	43.5
18	46.5
18	50
18	53
18	56
18	59
18	62.5
18	65.5
18	69
18	72
18	75
18	78
18	81.5
18	84.5

SIZE	
Minor Axis	Major Axis
20	23.5
20	26.5
20	29.5
20	33
20	36
20	39
20	42.5
20	45
20	48.5
20	52
20	55
20	58
20	61
20	64.5
20	67.5
20	71
20	74
20	77
20	80
20	83.5

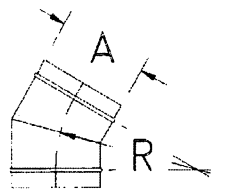
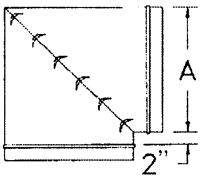
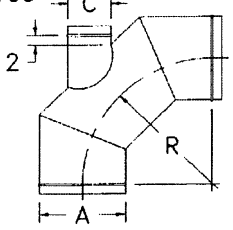
SIZE	
Minor Axis	Major Axis
22	26.5
22	28.5
22	31.5
22	35
22	38
22	41
22	44
22	47.5
22	50.5
22	53.5
22	57
22	60
22	63
22	66
22	69.5
22	72.5
22	75.5
22	79
22	82

SIZE	
Minor Axis	Major Axis
24	27.5
24	30.5
24	33.5
24	37
24	40
24	43
24	46.5
24	49.5
24	52.5
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24	65
24	68
24	71.5
24	74.5
24	77.5
24	81


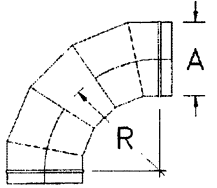
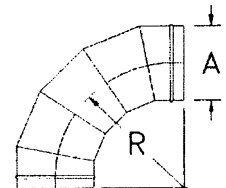
Single Wall Oval Spiral Pipe and Fitting Standards

<p>SP</p> 	<p>B1</p> 	<p>PP</p>  <p style="text-align: center;">PIPE TO PIPE</p>  <p style="text-align: center;">FITTING TO FITTING</p>	<p>FF EC EP</p>  <p style="text-align: center;">END CAP</p>  <p style="text-align: center;">END PLUG</p>
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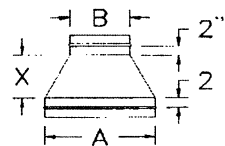
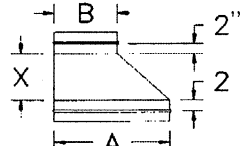
Spiral Pipe	Bellmouth	Couplings	Caps & Plugs
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<p style="text-align: center;">E1 Thru E36</p>  <p style="text-align: center;">A = 3" Thru 24"</p>	<p style="text-align: center;">EV90</p>  <p style="text-align: center;">A = 3" Thru 60"</p>	<p style="text-align: center;">ET90</p>  <p style="text-align: center;">A = 3" Thru 60"</p>
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2 Gore Elbows	Mitered Elbow	Elbow w/Tap
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<p style="text-align: center;">E37 Thru E71</p>  <p style="text-align: center;">A = 3" Thru 24"</p>	<p style="text-align: center;">E72 Thru E90</p>  <p style="text-align: center;">A = 3" Thru 24"</p>	 <p style="text-align: center;">A = Greater than 24"</p>
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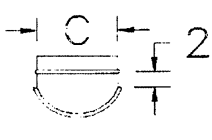
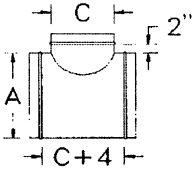
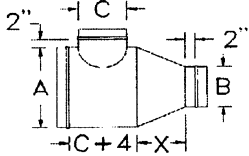
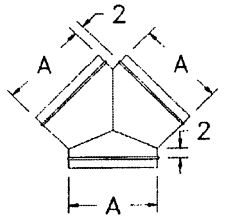
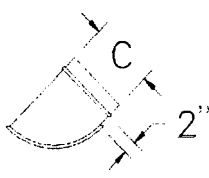
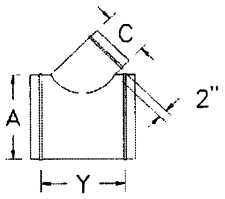
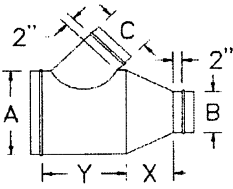
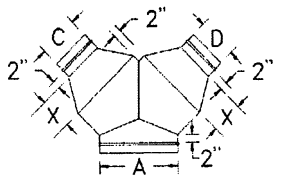
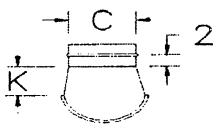
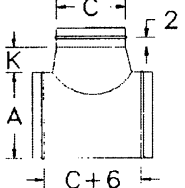
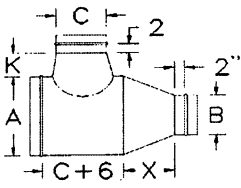
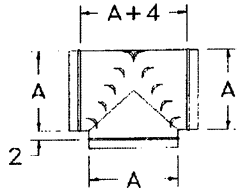
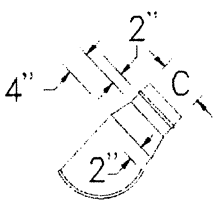
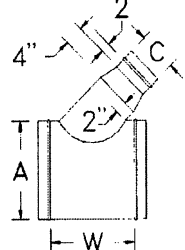
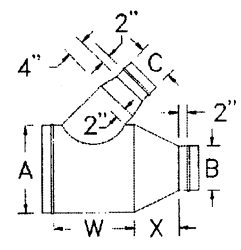
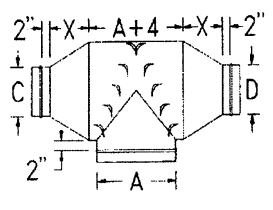
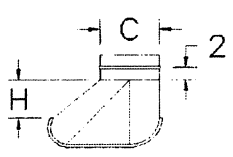
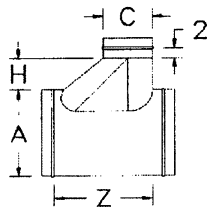
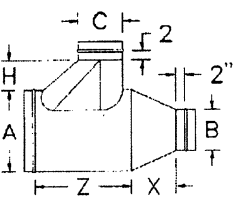
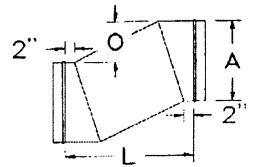
3 Gore Elbows	5 Gore Elbows
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<p>R1</p> 	<p>ER1</p> 
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Reducers

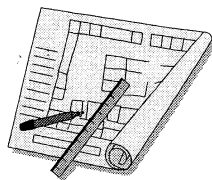
<p>Dimensions:</p> <p>A = Inlet (Major x Minor or Minor x Major)</p> <p>B = Outlet (Major x Minor or Minor x Major)</p> <p>C = Branch (Major x Minor or Minor x Major)</p> <p>D = Branch (Major x Minor or Minor x Major)</p> <p>H = 3" if C = 3" to 8" 6" if C = 9" to 16" 9" if C = 17" to 24" 12" if C = 25" & Up</p>	<p>K = 5 1/4"</p> <p>L = Offset Length</p> <p>O = Offsetting Amount</p> <p>R = 1.5 x A</p> <p>S = 2</p> <p>T = A/4+2</p> <p>U = Ax2+2</p> <p>**Dimension of Liner = O.D. - (2 x Insulation Thickness)</p> <p>**End of Liner Extends 2" Past Ends of Fittings</p>	<p>V = (A/2x1.414)+((C+2)/2)+6</p> <p>W = (C+2)x1.414+4</p> <p>X = 12" if A - B = 18" or Less 24" if A - B = 19" or Greater</p> <p>Y = (1.414 x C) + 4</p> <p>Z = C+H+4</p> <p>* = Consult Factory</p>
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Single Wall Oval Spiral Pipe and Fitting Standards

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

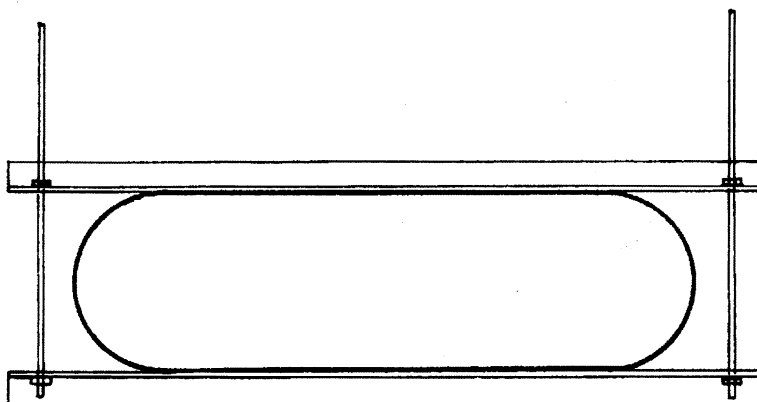
Wm. H. Brady, Inc.

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DOUBLE ANGLE EXTERIOR REINFORCEMENT FOR OVAL DUCT



MAXIMUM WIDTH	LOW PRESSURE to 2" S. P.	MEDIUM PRESSURE to 6" S. P.	HIGH PRESSURE to 10" S. P.
0" to 24"			
24" to 28"			6' Centers (1-1/2 x 1-1/2 x 1/8)
28" to 36"		6' Centers (1-1/2 x 1-1/2 x 1/8)	4' Centers (1-1/2 x 1-1/2 x 1/8)
36" to 40"		4' Centers (1-1/2 x 1-1/2 x 1/8)	3'6" Centers (2 x 2 x 1/8)
40" to 46"	6' Centers (1 x 1 x 1/8)		
		3'6" Centers (1-1/2 x 1-1/2 x 1/8)	3' Centers (2 x 2 x 1/8)
	5' Centers (1-1/2 x 1-1/2 x 1/8)		
46" to 52"	4'6" Centers (1-1/2 x 1-1/2 x 1/8)	3' Centers (2 x 2 x 1/8)	2'6" Centers (2 x 2 x 3/16)
52" to 60"	4' Centers (1-1/2 x 1-1/2 x 1/8)	2'6" Centers (2 x 2 x 1/8)	2' Centers (2-1/2 x 2-1/2 x 3/16)
60" to 72"	3'6" Centers (2 x 2 x 1/8)	2'6" Centers (2 x 2 x 1/4)	2' Centers (3 x 3 x 3/16)