

UNIVERSAL SPIRAL AIR

Manufacturer of Spiral, Oval and Rectangular Duct Systems



West Branch:

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Walker MI 49544
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Accessories: Couplers, Accuflanges, Angle Rings, Hangers, Etc...	
Industrial: No-Loss Stack, Butterfly Damper, Blast Gate, Floor Sweep	
Other Products Available	
Doublewall Round	
Singlewall Oval	
Doublewall Oval	
Order Sheets	



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Spiral Pipe & Fittings

- Low, Medium, or High Pressure
- 10', 20' or custom length spiral pipe
- Welded fittings, Standing Seam, Lap
- Elbows: 90°, 45° or any angle required
- Tee's: 90°, 45°, Reducing, Bullheads
- Transitions (Tapers), Concentric, Eccentric
- ShoeTaps built to fit specified pipe sizes
- Offsets / Risers
- End caps
- Register Boxes off specified diameters
- A-Collar take-offs, Bell Mouthes
- Slip Connectors, AccuFlanges or equivalents
- Angle Rings, loose or installed
- Pipe Hangers
- Access Doors and Dampers
- China Caps, and Rain Collars
- Low Loss Stacks

Double Wall Spiral Pipe & Fittings

Oval Pipe & Fittings

Double Wall Oval Pipe & Fittings

Spiral Pipe & Fitting Inventory

- We have available for immediate pick-up a limited supply of Spiral pipe & Fittings from 4"– 24" diameters.

Industrial Pipe & Fittings

- Welded - Long seam pipe.
- Welded - Round fittings.

Rectangular Ductwork & Fittings

- TDF, SnapLock, Pittsburgh, off 60" Coil Line
- S & Drives, Standing S, Ductmate
- ½", 1" and 2" Lined duct
- DoubleWall duct & fittings, perforated metal liner
- Expanded Metal/ Bird Screen
- Register Boxes
- Dampers

PCD Spiral Pipe & Fittings

- 4 x 1 or 4 x 4
- Underground or Fume Exhaust

Roof Curbs: Flat, Pitched, Lined

- Curb Adapters

Black Iron Welded Ductwork

Our incorporated team experience spans greater than 50 years. We offer that experience to help with your projects.

MATERIALS AVAILABLE:

- Galvanized Steel
- PaintGrip (Galvanneal)
- PCD (Polyvinyl Coated Duct)
- Aluminum: 3003-H-14
- Black Iron
- Stainless Steel 304 & 316
- Perforated Metal
- Expanded Metal

Call, Fax or email your request



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COMMON METAL GAUGES

Contact USA for high positive or negative pressures

Low Pressure Galvanized Systems					
Spiral Duct		Fittings		Longitudinal Seam	
Dia	Minimum Gauge 0"-2" W.G.	Dia	Minimum Gauge 0"-2" W.G.	Dia	Minimum Gauge 0"-10" W.G.
3 - 14	28	3 - 14	26	8 - 50	20
15 - 26	26	15 - 26	24	52 - 60	18
27 - 36	24	27 - 36	22	62 - 84	16
38 - 50	22	38 - 50	20		
52 - 60	20	52 - 84	18		
62 & Up	18	53 - 84	16		

Medium to High - Positive Pressure Galvanized Systems					
Spiral Duct		Fittings		Longitudinal Seam	
Dia	Minimum Gauge 2"-10" W.G.	Dia	Minimum Gauge 2"-10" W.G.	Dia	Minimum Gauge 2"-10" W.G.
3 - 14	26	3 - 14	24	8 - 50	20
15 - 26	24	15 - 26	22	52 - 60	18
27 - 36	22	27 - 50	20	62 - 84	16
38 - 50	20	52 - 60	18		
52 - 60	18	62 - 84	16		

Aluminum 3003 H-14					
Spiral Duct		Fittings		Longitudinal Seam	
Dia	Minimum Gauge 0" - 2" W.G.	Dia	Minimum Gauge 0" - 2" W.G.	Dia	Minimum Gauge 2"-10" W.G.
3 - 14	.025	3 - 36	.040	8 - 36	.040
15 - 26	.032	38 - 50	.050	38 - 50	.050
27 - 36	.040	52 - 60	.063	52 - 60	.063
38 - 50	.050	62 & Up	.080		
52 & Up	.063				

PCD 4x1 (Below Ground)			
Spiral Duct		Fittings	
Dia	Minimum Gauge	Dia	Minimum Gauge
4 - 8	26	3 - 8	26
9 - 16 *	24	9 - 16	24
18 - 24 *	22	18 - 24	22
26 - 32 *	20	26 - 32	20
34 - 60 *	18	34 - 60	18
* (corrugated)			

PCD 4x4, 4x1, 1x4 (Above Ground for fume exhaust)			
Spiral Duct		Fittings	
Dia	Minimum Gauge *	Dia	Minimum Gauge *
4 - 14	26	4 - 12	24
16 - 26	24	13 - 26	22
28 - 36	22	28 - 50	20
38 - 48	20	52 - 60	18
50 - 60	18		

* Gauge dependant on pressure class, contact USA for high pressure (Pos or Negative)



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SPIRAL PIPE WEIGHT CHART

Galvanized Metal Weight - Pounds per Foot

<i>Dia</i>	<i>28 ga</i>	<i>26 ga</i>	<i>24 ga</i>	<i>22 ga</i>	<i>20 ga</i>	<i>18 ga</i>
3	0.7	0.8	1.0	1.2	1.5	NA
4	0.9	1.1	1.4	1.7	2.0	2.5
5	1.2	1.3	1.7	2.1	2.4	3.2
6	1.4	1.6	2.0	2.5	2.9	3.8
7	1.6	1.9	2.4	2.9	3.4	4.4
8	1.8	2.1	2.7	3.3	3.9	5.1
9	2.1	2.4	3.1	3.7	4.4	5.7
10	2.3	2.7	3.4	4.1	4.9	6.3
11	2.5	2.9	3.7	4.6	5.4	7.0
12	2.8	3.2	4.1	5.0	5.9	7.6
14	3.2	3.7	4.8	5.8	6.8	8.9
16	N/A	4.3	5.4	6.6	7.8	10.2
18		4.8	6.1	7.5	8.8	11.4
20		5.3	6.8	8.3	9.8	12.7
22		5.9	7.5	9.1	10.7	14.0
24		6.4	8.2	9.9	11.7	15.2
26		6.9	8.9	10.8	12.7	16.5
28		N/A	9.5	11.6	13.7	17.8
30			10.2	12.4	14.6	19.0
32			10.9	13.3	15.6	20.3
34			11.6	14.1	16.6	21.6
36			12.3	14.9	17.6	22.9
38			N/A	15.7	18.5	24.1
40				16.6	19.5	25.4
42				17.4	20.5	26.7
44				18.2	21.5	27.9
46				19.0	22.4	29.2
48				19.9	23.4	30.5
50				20.7	24.4	31.7
52				21.5	25.4	33.0
54				22.4	26.3	34.3
56				23.2	27.3	35.8
58				24.0	28.3	36.8
60				24.8	29.3	38.1

Standard pipe length is 10'. Other lengths thru 20 feet are available
Gray areas on the chart indicate standard gauges



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Spiral Product Codes

SP	Spiral Pipe	TEES	
ELBOWS		T90	Straight Tee
E90-1.0	90 1.0 radius	T90C	Conical Tee
E90-1.5	90 1.5 radius	T90X	Straight Cross
E45-1.0	45 1.0 radius	T90CX	Conical Cross
E45-1.5	45 1.5 radius	T45	Lateral 45
E90DS	90 1.5 radius Die Stamp	T45C	Lateral Conical
E45DS	45 1.5 radius Die Stamp	T45X	Lateral Cross
E90MW	90 short radius Maplewood	T45XC	Lateral Cross, Conical
E45MW	45 short radius Maplewood	TLL	Low Loss Tee
E90HT	Gored Heel Tap Elbow	TLLx	LowLoss Cross
E90MT	Mitered 90	T90 w/ RED	Straight Tee w/ Reducer
FITTINGS		T90C w/ RED	Conical Tee w/ Reducer
RED	Concentric Reducer (Taper)	T90X w/ RED	Straight Cross w/ Reducer
ECC-RED	Eccentric Reducer (Taper)	T90CX w/ RED	Conical Cross w/ Reducer
OFST	Offset	T45 w/ RED	Lateral 45 w/ Reducer
OFST-R	Reducing Offset	T45C w/ RED	Lateral Conical w/ Reducer
SQRND	Square to Round	T45X w/ RED	Lateral Cross w/ Reducer
SAD90	Saddle Tap	T45XC w/ RED	Lateral Cross, Conical w/ Reducer
SAD90C	Saddle Tap 90 Conical	TLL w/ RED	Low Loss Tee w/ Reducer
SAD45	Saddle Tap 45	TLLX w/ RED	LowLoss Cross w/ Reducer
SHTP-C	Shoe Tap - Continuous Flange	RT90	Reducing Body, Straight Tee
SHTP-F	Shoe Tap - Flap Style	RT90C	Reducing Body, Conical Tee
C	Connector Male (Pipe to Pipe)	RT90X	Reducing Body, Straight Cross
FITT-C	Connector Female (Fitting to Fitting)	RT90CX	Reducing Body, Conical Cross
BSHG	Bushing (Insulation Stop)	RT45	Reducing Body, Lateral 45
REGBox	Register Box	RT45C	Reducing Body, Conical Lateral
REGBox45	45deg Register Box	RT45X	Reducing Body, Lateral Cross
EBB	Elbow Box	RT45CX	Reducing Body, Conical Lateral Cross
EBB-SR	Elbow Box w/ Square to Round	RTLL	Reducing Body, Low Loss Tee
EB	Elbow Boot	RTLLX	Reducing Body, LowLoss Cross
CEB	Center End Boot	Y45	Y-Branch
ACCESSORIES		Y45R	Reducing Y-Branch
PCD Touch-Up	PCD Touch-Up	BHTEE	Bullhead Tee



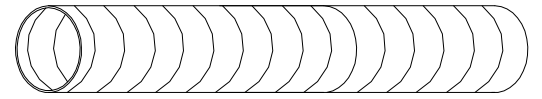
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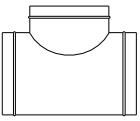
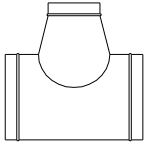
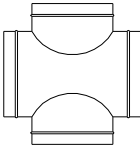
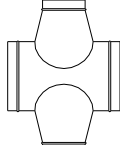
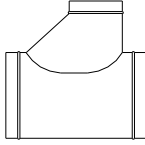
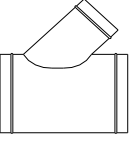
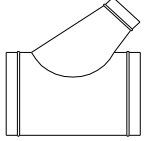
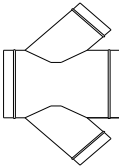
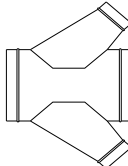
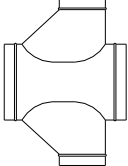
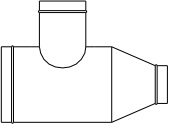
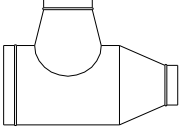
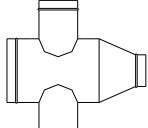
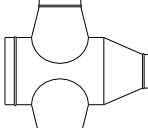
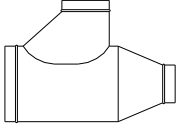
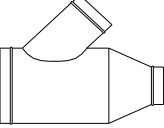
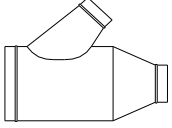
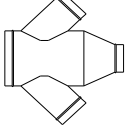
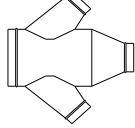
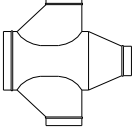
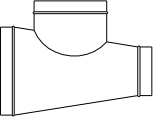
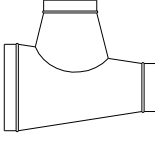
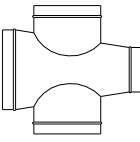
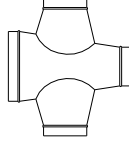
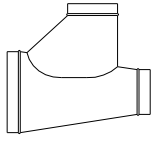
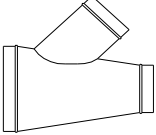
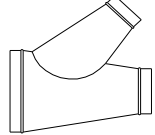
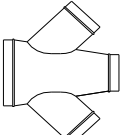
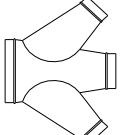
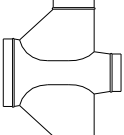
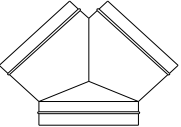
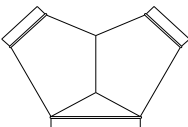
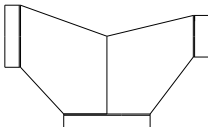
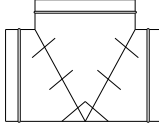
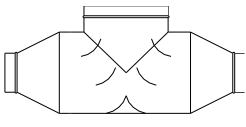
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Spiral Pipe



SP

Elbow 90° 1.0 or 1.5 Radius E90 1.0 E90 1.5	Elbow 45° 1.0 or 1.5 Radius E45 1.0 E45 1.5	Elbow 90° Maplewood E90MW	Elbow 45° Maplewood E45MW	Elbow 90° Reducing E90R
Elbow 90° Diestamp E90DS	Elbow 45° Diestamp E45DS	Elbow 90° Heel Tap E90HT	Elbow 90° Mitered E90MT	Square to Round SQRND
Offset OFST	Offset - Reducing OFST-R	Saddle Tap 90° SAD90	Saddle Tap 45° SAD45	Saddle Tap 90° Conical SAD90C
Concentric Reducer (Taper) RED	Eccentric Reducer (Taper) ECC-RED	Register Box REGBOX	Register Box 45° REGBOX45	Access Door Round AD-RND
Bushing (Insulation Stop) BSHG	Bellmouth Flange-Spun BM	USA Starter USA Starter	Accuflange ACF	Angle Ring AR
Shoe Tap - Continuous Flange SHTP-C	Shoe Tap - Flap Style SHTP-F	A-Collar ACLR	Pipe Coupler - Male C	End Cap EC
Half Hanger 1/2HNG	Full Hangers HNG	Oval Half Hangers OV-1/2HNG	Butterfly Damper BD	Blastgate BGATE

Straight Tee  T90	Conical Tee  T90C	Straight Cross  T90X	Conical Cross  T90CX	Low Loss Tee  TLL
Lateral 45° Tee  T45	Conical Lateral Tee  T45C	Lateral Cross  T45X	Conical Lateral Cross  T45XC	Low Loss Cross  TLLX
Straight Tee w/ Reducer  T90 w/ RED	Conical Tee w/ Reducer  T90C w/ RED	Straight Cross w/ Reducer  T90X w/ RED	Conical Cross w/ Reducer  T90CX w/ RED	Low Loss Tee w/ Reducer  TLL w/ RED
Lateral 45° Tee w/ Reducer  T45 w/ RED	Conical Lateral Tee w/ Reducer  T45C w/ RED	Lateral Cross w/ Reducer  T45X w/ RED	Conical Lateral Cross w/ Reducer  T45XC w/ RED	Low Loss Cross w/ Reducer  TLLX w/ RED
Reducing Body Straight Tee  RT90	Reducing Body Conical Tee  RT90C	Reducing Body Straight Cross  RT90X	Reducing Body Conical Cross  RT90CX	Reducing Body Low Loss Tee  RTLL
Reducing Body Lateral 45° Tee  RT45	Reducing Body Conical Lateral Tee  RT45C	Reducing Body Lateral Cross  RT45X	Reducing Body Conical Lateral Cross  RT45CX	Reducing Body Low Loss Cross  RTLLX
45° Y-Branch  Y45	45° Y-Branch w/ Reducers  Y45R	90° Y-Branch w/ 1 Reducer  Y90	Bullhead Tee  BHTEE	Bullhead Tee w/ Reducers  BHTEE w/ RED



UNIVERSAL SPIRAL AIR

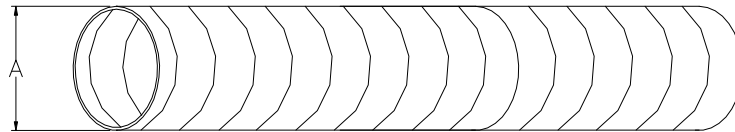
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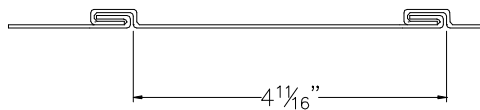
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ROUND: SINGLEWALL

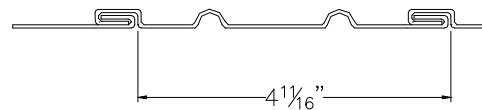
SP
SINGLE WALL SPIRAL PIPE



STANDARD LATERAL SECTION
(EXTERIOR)



CORRUGATED LATERAL SECTION
(EXTERIOR)





UNIVERSAL SPIRAL AIR

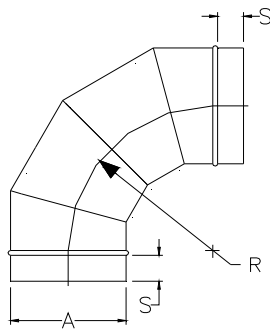
Manufacturer of Spiral, Oval and Rectangular Duct Systems

West Branch: 2735 West River Dr NW Walker MI 49544
616-475-5905 Fax: 616-475-6433 Email: sale@usaduct.com

East Branch: 37050 Plymouth Rd., Livonia MI 48150
734-261-0410 Fax: 734-261-0435 Email: detsales@usaduct.com

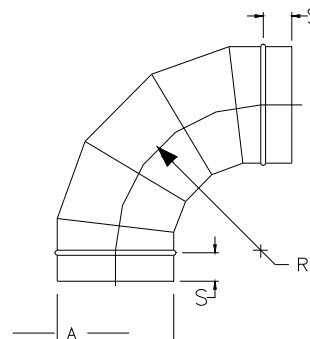
ROUND: ELBOWS

E90 1.0
FOUR GORED ELBOW 90°
(OR ANY ANGLE)



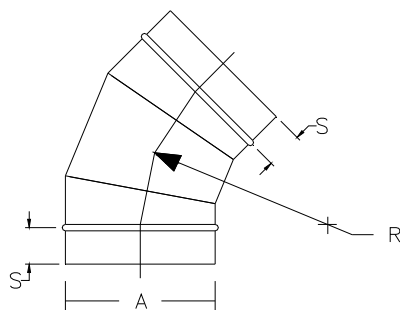
$S=2"$
 $R=1.0XA$

E90 1.5
FIVE GORED ELBOW 90°
(OR ANY ANGLE)



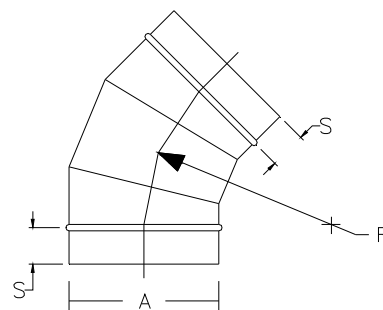
$S=2"$
 $R=1.5XA$

E45 1.0
GORED ELBOW 45°
(OR ANY ANGLE)



$S=2"$
 $R=1.0XA$

E45 1.5
GORED ELBOW 45°
(OR ANY ANGLE)



$S=2"$
 $R=1.5XA$



UNIVERSAL SPIRAL AIR

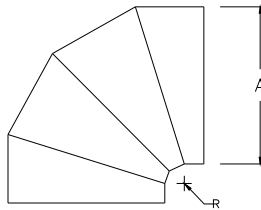
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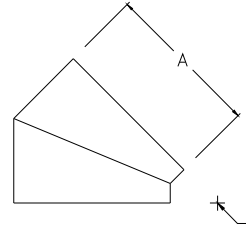
ROUND: ELBOWS

E90MW
MAPLEWOOD ELBOW 90°



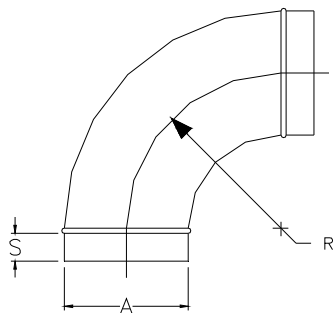
R=SHORT THROAT
LOW PRESSURE FITTING

E45MW
MAPLEWOOD ELBOW 45°



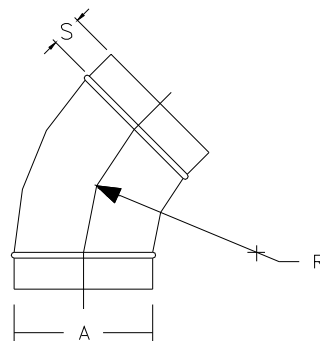
R=SHORT THROAT
LOW PRESSURE FITTING

E90DS
DIE STAMPED 90°



$R=1.5XA$
 $S=2"$

E45DS
DIE STAMPED 45°



$R=1.5XA$
 $S=2"$



UNIVERSAL SPIRAL AIR

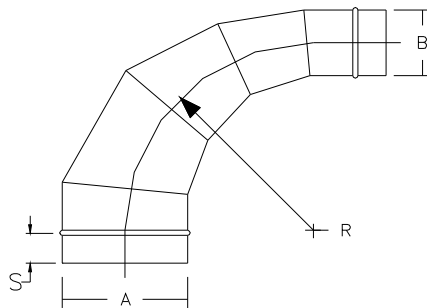
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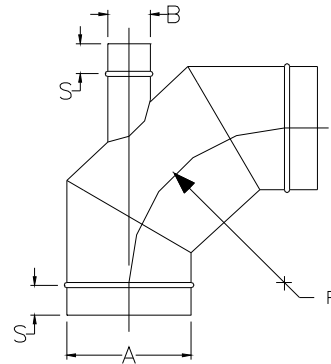
ROUND: ELBOWS

E90R
REDUCING ELBOW 90°



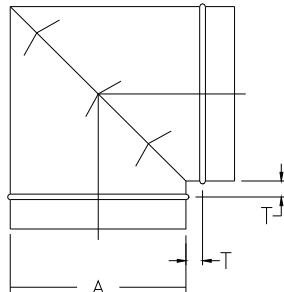
$S=2"$
 $R=1.5XA$

E90HT
HEEL TAP ELBOW



$S=2"$
 $R=1.5XA$

E90MT
MITERED 90°



$T=4"$
WITH OR WITHOUT TURNING VALVES
CALL TO CONFIRM DIMENSIONS WHEN $A>36"$



UNIVERSAL SPIRAL AIR

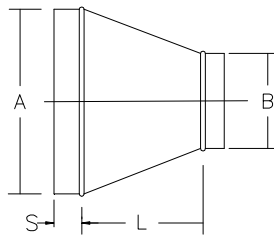
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ROUND: REDUCERS & OFFSETS

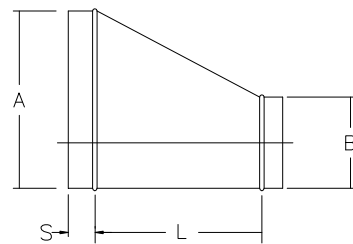
RED
CONCENTRIC REDUCER



$$S=2''$$

$$L=A-B+2''$$

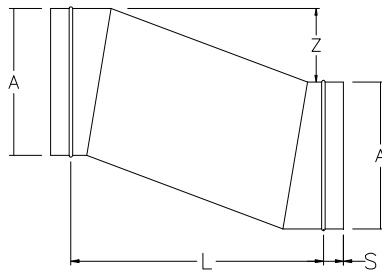
ECC-RED
ECCENTRIC REDUCER



$$S=2''$$

$$L=A-B+4''$$

OFST
OFFSET

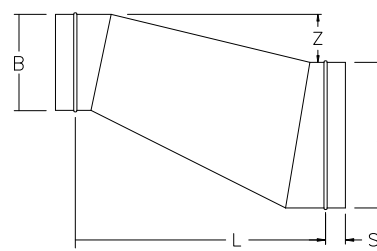


$$S=2''$$

$$L=(Z+Z)+A$$

$$Z=\text{CUSTOMER SPECIFIED}$$

OFST-R
REDUCING OFFSET



$$S=2''$$

$$L=(Z+Z)+A$$

$$Z=\text{CUSTOMER SPECIFIED}$$



UNIVERSAL SPIRAL AIR

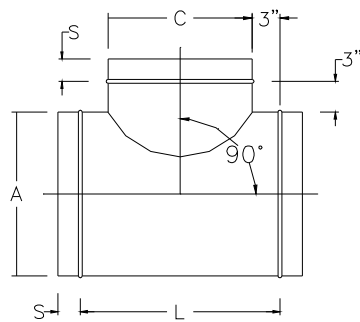
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ROUND: TEES

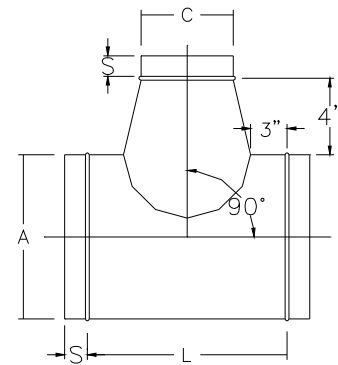
T90
STRAIGHT TEE



S=2"
L=C+6"

CALL TO CONFIRM DIMENSIONS WHEN A>36"

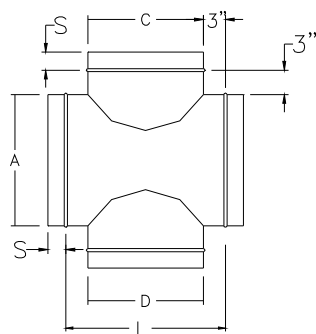
T90C
CONICAL TEE



S=2"
L=C+10"

CALL TO CONFIRM DIMENSIONS WHEN A>36"

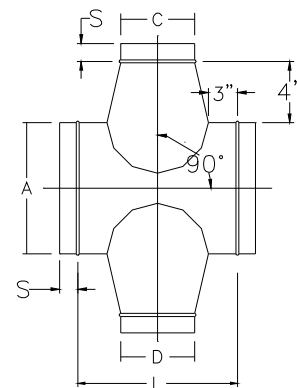
T90X
STRAIGHT TEE, CROSS



S=2"
L=C+6"

CALL TO CONFIRM DIMENSIONS WHEN A >36"

T90CX
TEE, CONICAL, CROSS



S=2"
L=LARGEST TAP+10"

CALL TO CONFIRM DIMENSIONS WHEN A>36"



UNIVERSAL SPIRAL AIR

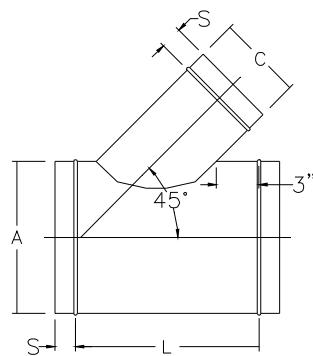
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ROUND: TEES

T45
TEE, LATERAL

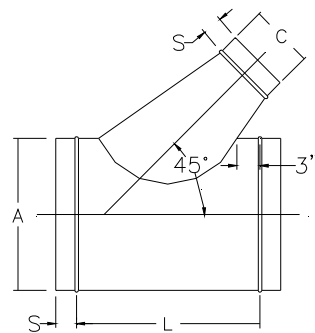


$$S=2''$$

$$L=C(1.5)+6''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$

T45C
TEE, CONICAL LATERAL

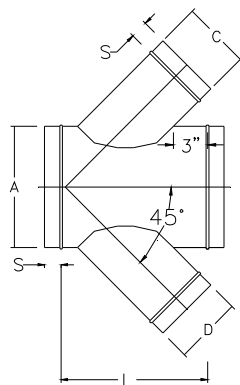


$$S=2''$$

$$L=C(1.5)+10''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$

T45X
TEE, LATERAL CROSS

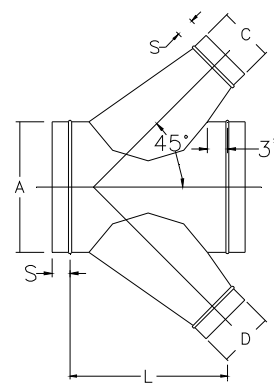


$$S=2''$$

$$L=\text{LARGEST TAP}(1.5)+6''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$

T45XC
TEE, CONICAL LATERAL CROSS



$$S=2''$$

$$L=\text{LARGEST TAP}(1.5)+10''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$



UNIVERSAL SPIRAL AIR

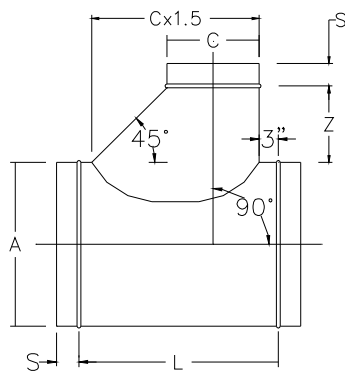
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ROUND: TEES

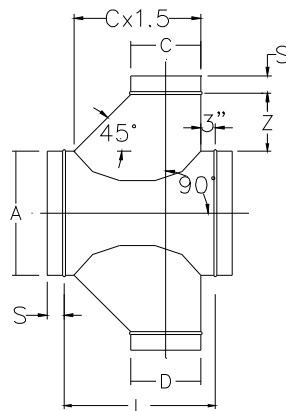
TLL
TEE, LOW LOSS



S=2"
Z=C/2
L=C(1.5)+6"

CALL TO CONFIRM DIMENSIONS WHEN A>36"

TLLX
TEE, LOW LOSS, CROSS



S=2"
Z=C/2
L=LARGEST TAP(1.5)+6"

CALL TO CONFIRM DIMENSIONS WHEN A>36"



UNIVERSAL SPIRAL AIR

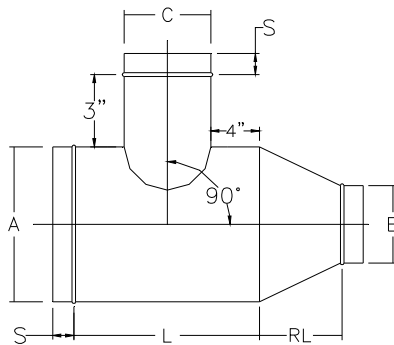
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ROUND: TEES

T90 w/ RED
TEE w/ REDUCER



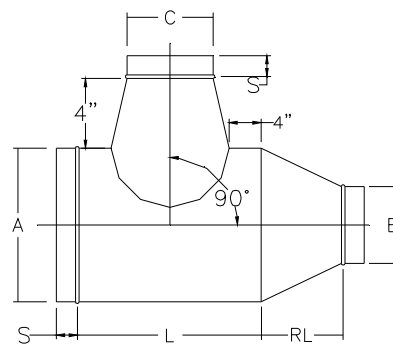
$$S=2''$$

$$RL=A-B+2''$$

$$L=C+6''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$

T90C w/ RED
TEE, CONICAL w/ REDUCER



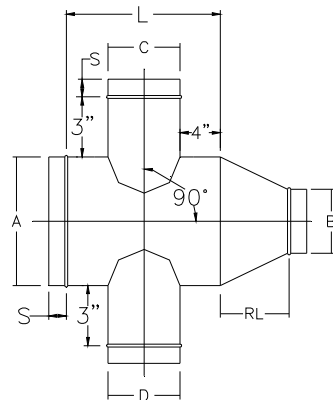
$$S=2''$$

$$RL=A-B+2''$$

$$L=C+10''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$

T90X w/ RED
TEE, CROSS w/ REDUCER



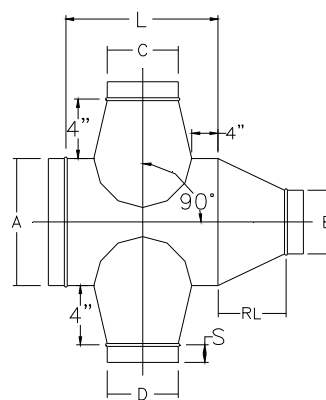
$$S=2''$$

$$RL=A-B+2''$$

$$L=LARGEST\ TAP+6''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$

T90CX w/ RED
TEE, CROSS, CONICAL w/ REDUCER



$$S=2''$$

$$RL=A-B+2''$$

$$L=LARGEST\ TAP+10''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$



UNIVERSAL SPIRAL AIR

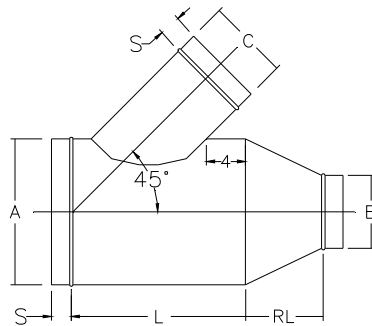
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ROUND: TEES

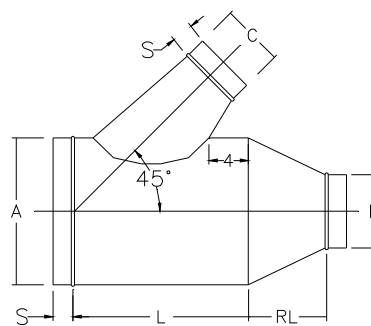
T45 w/ RED
TEE, LATERAL w/ REDUCER



$$\begin{aligned} S &= 2'' \\ RL &= A - B + 2'' \\ L &= C(1.5) + 6'' \end{aligned}$$

CALL TO CONFIRM DIMENSIONS WHEN A>36"

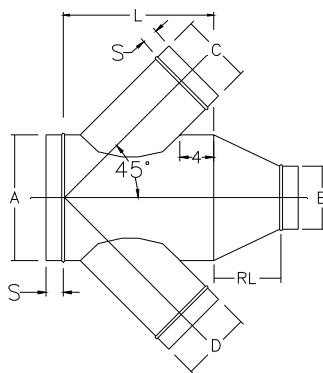
T45C w/ RED
TEE, CONICAL, LATERAL w/ REDUCER



$$\begin{aligned} S &= 2'' \\ RL &= A - B + 2'' \\ L &= C(1.5) + 10'' \end{aligned}$$

CALL TO CONFIRM DIMENSIONS WHEN A>36"

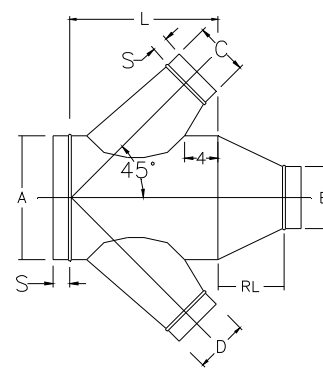
T45X w/ RED
TEE, CROSS, LATERAL w/ REDUCER



$$\begin{aligned} S &= 2'' \\ RL &= A - B + 2'' \\ L &= \text{LARGEST TAP}(1.5) + 6'' \end{aligned}$$

CALL TO CONFIRM DIMENSIONS WHEN A>36"

T45XC w/ RED
TEE, CROSS, CONICAL
LATERAL w/ REDUCER



$$\begin{aligned} S &= 2'' \\ RL &= A - B + 2'' \\ L &= \text{LARGEST TAP}(1.5) + 10'' \end{aligned}$$

CALL TO CONFIRM DIMENSIONS WHEN A>36"



UNIVERSAL SPIRAL AIR

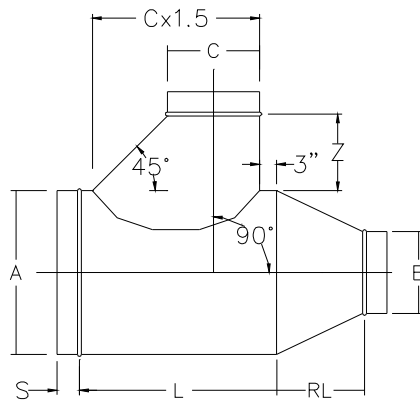
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ROUND: TEES

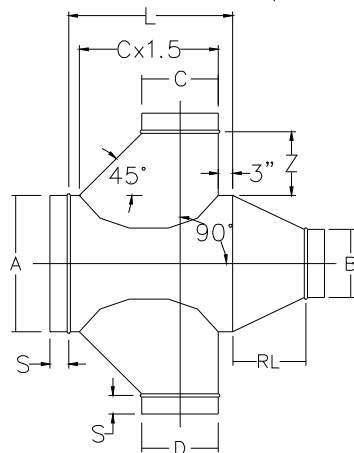
TLL w/ RED
TEE, LOW LOSS w/ REDUCER



S=2"
Z=C/2"
RL=A-B+2"
L=C(1.5)+6"

CALL TO CONFIRM DIMENSIONS WHEN A>36"

TLLX w/ RED
TEE, LOW LOSS, CROSS w/ REDUCER



S=2"
Z=C/2"
RL=A-B+2"
L=LARGEST TAP(1.5)+6"

CALL TO CONFIRM DIMENSIONS WHEN A>36"



UNIVERSAL SPIRAL AIR

Manufacturer of Spiral, Oval and Rectangular Duct Systems

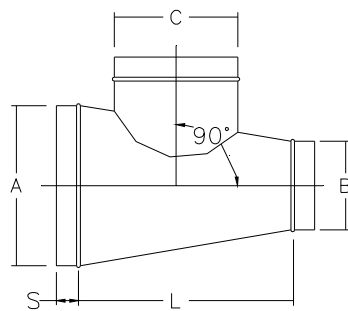
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ROUND: TEES

Reducing Body available only when C & D are smaller than B

RT90
REDUCING BODY TEE

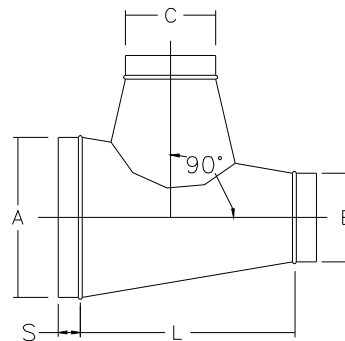


$$S=2''$$

$$L=C+(A-B)+6''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$

RT90C
REDUCING BODY TEE, CONICAL

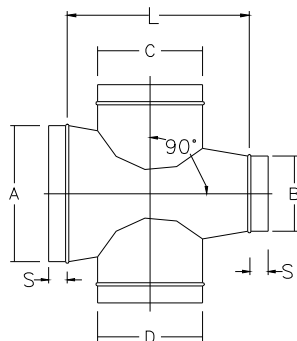


$$S=2''$$

$$L=C+(A-B)+10''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$

RT90X
REDUCING BODY TEE, CROSS

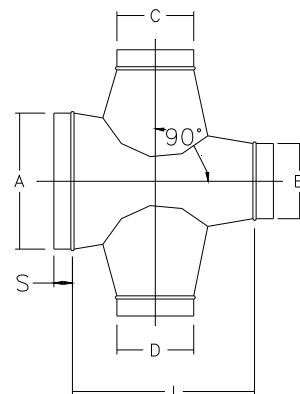


$$S=2''$$

$$L=\text{LARGEST TAP}+(A-B)+6''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$

RT90CX
REDUCING BODY TEE,
CONICAL, CROSS



$$S=2''$$

$$L=\text{LARGEST TAP}+(A-B)+10''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$



UNIVERSAL SPIRAL AIR

Manufacturer of Spiral, Oval and Rectangular Duct Systems

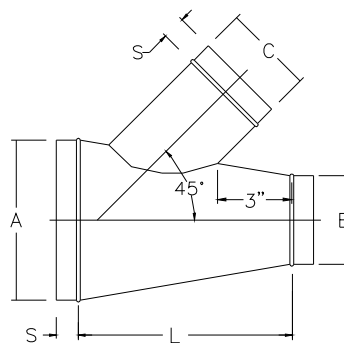
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ROUND: TEES

Reducing Body available only when C & D are smaller than B

RT45
REDUCING BODY TEE, LATERAL

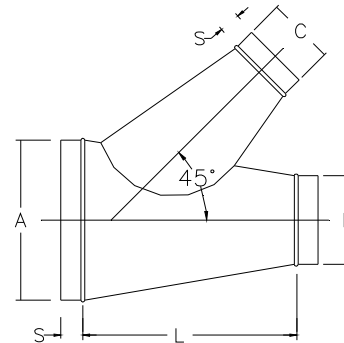


$$S=2''$$

$$L=C(1.5)+(A-B)+6''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$

RT45C
REDUCING BODY TEE,
LATERAL, CONICAL

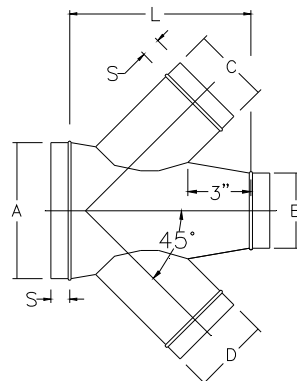


$$S=2''$$

$$L=C(1.5)+(A-B)+10''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$

RT45X
REDUCING BODY TEE,
LATERAL, CROSS

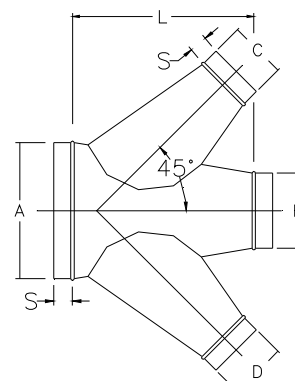


$$S=2''$$

$$L=\text{LARGEST TAP}(1.5)+(A-B)+6''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$

RT45CX
REDUCING BODY TEE, LATERAL,
CONICAL, CROSS



$$S=2''$$

$$L=\text{LARGEST TAP}(1.5)+(A-B)+10''$$

CALL TO CONFIRM DIMENSIONS WHEN $A>36''$



UNIVERSAL SPIRAL AIR

Manufacturer of Spiral, Oval and Rectangular Duct Systems

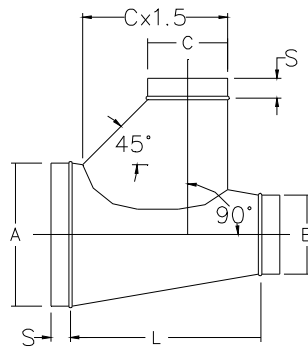
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ROUND: TEES

Reducing Body available only when C & D are smaller than B

RTLL
REDUCING BODY TEE, LOW LOSS

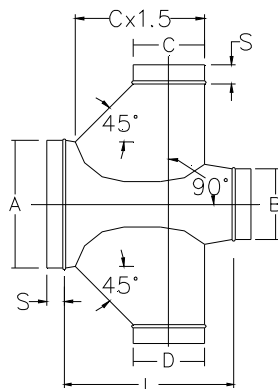


$$S=2"$$

$$L=C(1.5)+(A-B)+4"$$

CALL TO CONFIRM DIMENSIONS WHEN A>36"

RTLLX
REDUCING BODY TEE, LOW LOSS, CROSS



$$S=2"$$

$$L=LARGEST\ TAP(1.5)+(A-B)+4"$$

CALL TO CONFIRM DIMENSIONS WHEN A>36"



UNIVERSAL SPIRAL AIR

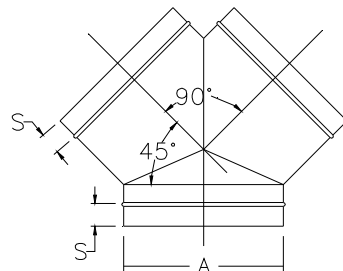
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ROUND: WYES

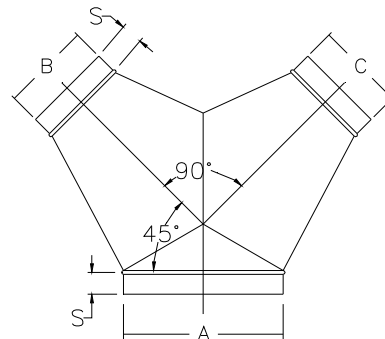
Y45
Y-BRANCH 45°



S=2"

CALL TO CONFIRM DIMENSIONS WHEN A>36"

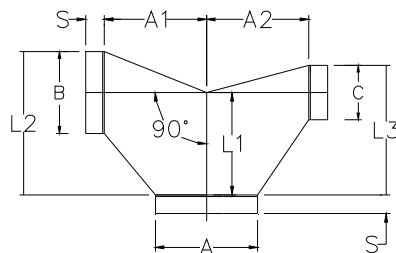
Y45R
REDUCING Y-BRANCH 45°



S=2"

CALL TO CONFIRM DIMENSIONS WHEN A>36"

Y90
Y-BRANCH 90°



S=2"

MAXIMUM B or C = A

CALL TO CONFIRM DIMENSIONS WHEN A>36"



UNIVERSAL SPIRAL AIR

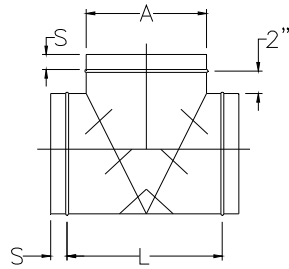
Manufacturer of Spiral, Oval and Rectangular Duct Systems

West Branch: 2735 West River Dr NW Walker MI 49544
616-475-5905 Fax: 616-475-6433 Email: sale@usaduct.com

East Branch: 37050 Plymouth Rd., Livonia MI 48150
734-261-0410 Fax: 734-261-0435 Email: detsales@usaduct.com

ROUND: BULLHEADS

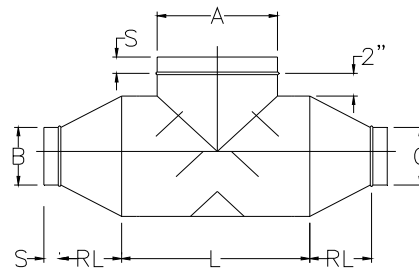
BHTEE
TEE, BULLHEAD W/ VANES



S=2"
L=A+10

CALL TO CONFIRM DIMENSIONS WHEN A>36" WITH OR WITHOUT TURNING VANES

RBHTEE
TEE, REDUCING,
BULLHEAD W/ VANES



S=2"
L=A+10
RL=A-B+2"

CALL TO CONFIRM DIMENSIONS WHEN A>36" WITH OR WITHOUT TURNING VANES



UNIVERSAL SPIRAL AIR

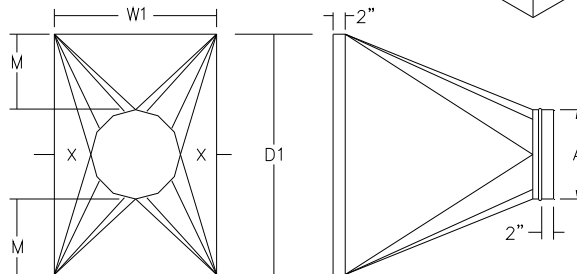
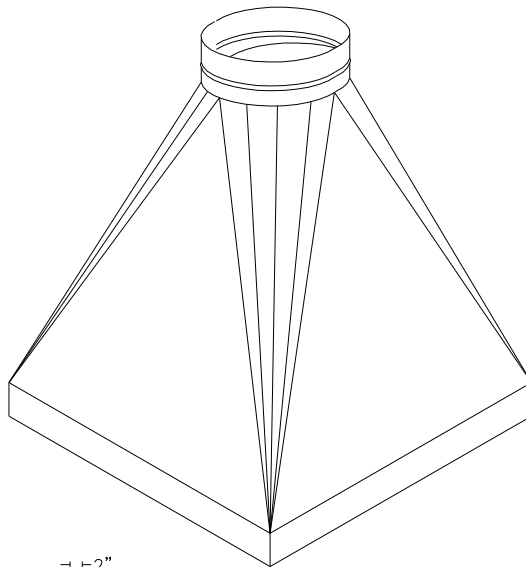
Manufacturer of Spiral, Oval and Rectangular Duct Systems

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616-475-5905 Fax: 616-475-6433 Email: sale@usaduct.com

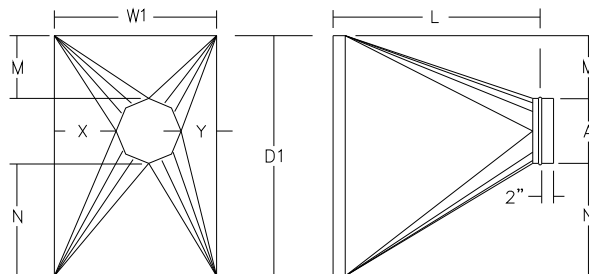
East Branch: 37050 Plymouth Rd., Livonia MI 48150
734-261-0410 Fax: 734-261-0435 Email: detsales@usaduct.com

SQUARE TO ROUND

SQRND
SQUARE TO ROUND TRANSITIONS



RECTANGULAR TO ROUND CONCENTRIC TRANSITION



RECTANGULAR TO ROUND NONCONCENTRIC TRANSITION

L=CUSTOMER SPECIFIED OR
DETERMINED BY USA.
SPECIFY W1xD1 CONNECTION TYPE
IE.- RAW, FLANGE,...ETC.



UNIVERSAL SPIRAL AIR

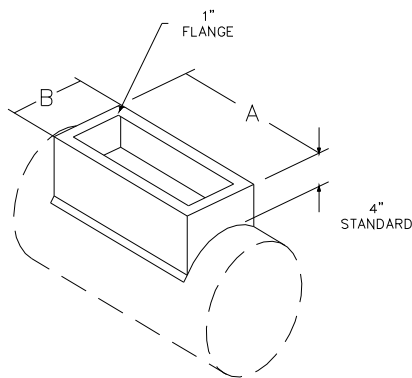
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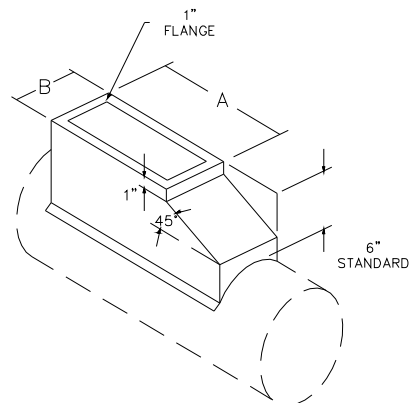
ROUND: REGISTER BOXES & ATTACHMENTS

REGB
REGISTER BOX



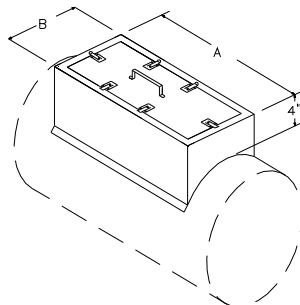
SPECIFY ID or OD WHEN ORDERING
BUILT $\frac{7}{8}$ " TO ALLOW FOR CLEARANCE FOR REGISTER FIT

REGB45
REGISTER BOX 45°

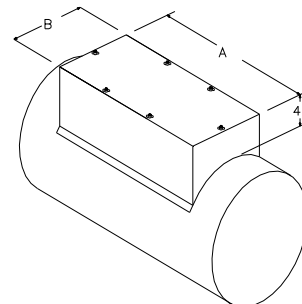


SPECIFY ID or OD WHEN ORDERING
BUILT $\frac{7}{8}$ " TO ALLOW FOR CLEARANCE FOR REGISTER FIT

AD-CLIPS
ACCESS DOOR W/ CLIPS
ON REGISTER BOX



AD-STUDS
ACCESS DOOR W/
STUDS ON REGISTER
BOX





UNIVERSAL SPIRAL AIR

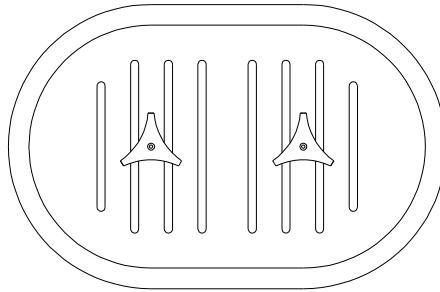
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ROUND: ACCESS DOOR

AD-RND
ROUND ACCESS DOOR



DOOR SIZE	DUCT SIZE
8" x 4"	5" - 6"
	7" - 9"
	10" - 11"
	12" - 14"
12" x 8"	10" - 11"
	12" - 14"
	15" - 16"
	17" - 18"
	19" - 20"
16" x 12"	15" - 16"
	17" - 18"
	19" - 20"
	21" - 22"
	23" - 24"
	25" - 28"
	29" - 32"
	33" - 36"
24" x 18" (2 PANEL ONLY)	29" - 32"
	33" - 36"
	37" - 40"
	41" - 44"
	45" - 48"
	49" - 52"
	53" - 56"
	57" - 62"

ACCESS DOOR SECTION



*AVAILABLE INSULATED or UNISULATED

**SPECIFY POSITIVE or
NEGATIVE APPLICATION.



UNIVERSAL SPIRAL AIR

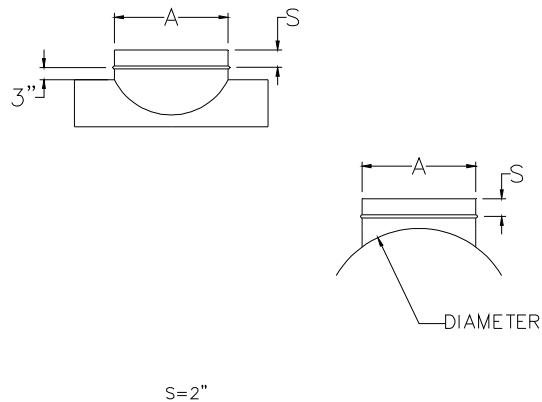
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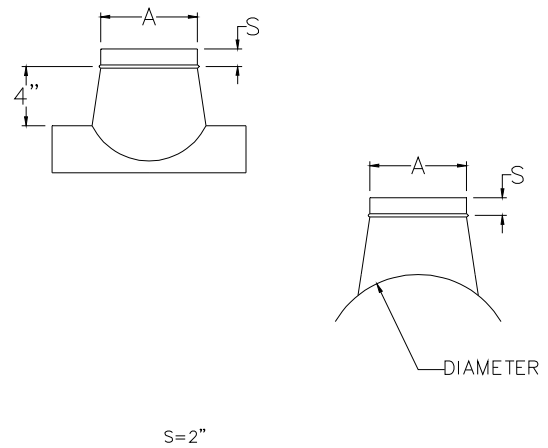
East Branch: 37050 Plymouth Rd., Livonia MI 48150
734-261-0410 Fax: 734-261-0435 Email: detsales@usaduct.com

ROUND: SADDLE TAPS

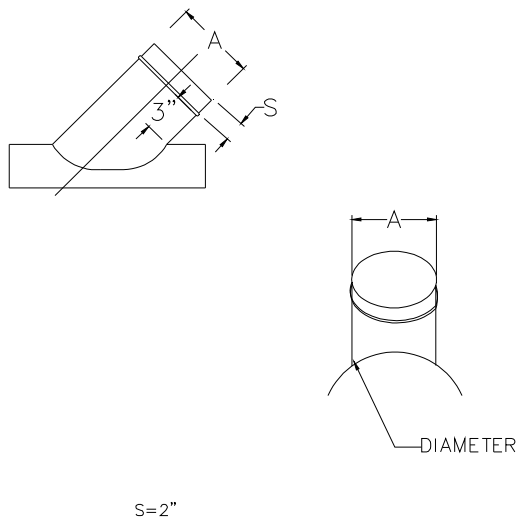
SAD90
SADDLE TAP 90°



SAD90C
SADDLE TAP CONICAL 90°



SAD45
SADDLE TAP 45°





UNIVERSAL SPIRAL AIR

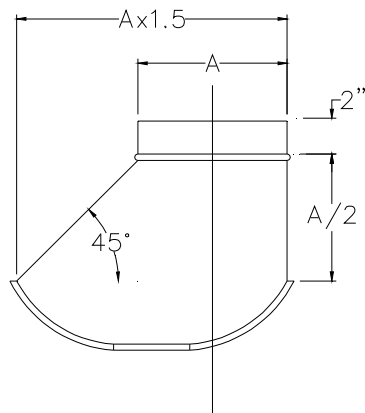
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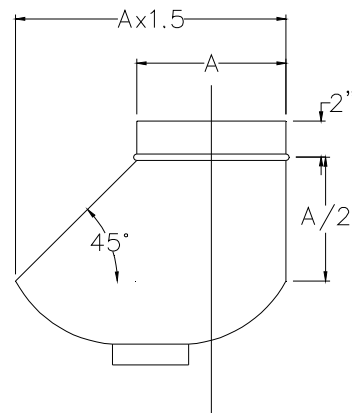
East Branch: 37050 Plymouth Rd., Livonia MI 48150
734-261-0410 Fax: 734-261-0435 Email: detsales@usaduct.com

ROUND: SHOE TAPS

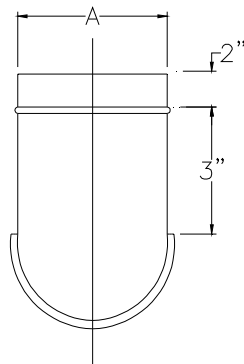
SHTP-C
SHOE TAP - CONTINUOUS FLANGE



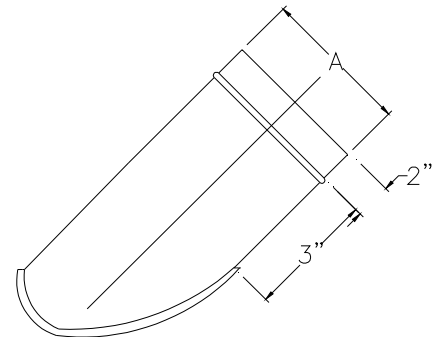
SHTP-F
SHOE TAP - FLAP STYLE



90 TAP IN
90deg TAP IN - CONTINUOUS FLANGE



45 TAP IN
45deg TAP IN - CONTINUOUS FLANGE





UNIVERSAL SPIRAL AIR

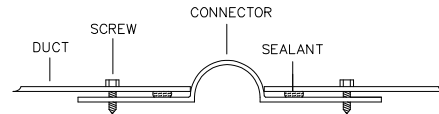
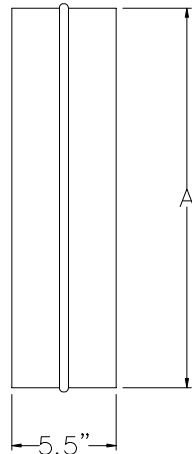
Manufacturer of Spiral, Oval and Rectangular Duct Systems

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East Branch: 37050 Plymouth Rd., Livonia MI 48150
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ACCESSORIES

C COUPLER



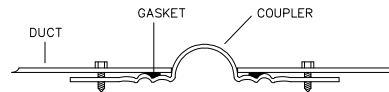
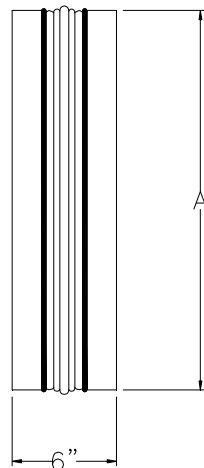
EASIEST TO INSTALL
REQUIRES ONLY SHEET METAL SCREWS
& SEALANT
AVAILABLE IN ROUND OR OVAL

APPLICATION – COMMERCIAL

SIZES: 4"–80" (ROUND)

SIZES: 4"–30" (MINOR AXIS OVAL)

C–G GASKETED COUPLER



SELF-SEALING CONNECTOR
INSTALLED WITH SHEET METAL SCREWS
AVAILABLE FOR ROUND SINGLEWALL
REQUIRES FITTINGS TO BE PIPE SIZE

ADVANTAGE – EXCELLENT RESISTANCE TO OZONE, WEATHERING, HEAT AGING,
UV EXPOSURES, COMPRESSION SET, WATER ABSORPTION AND
DEGRADATION BY WATER AQUEOUS SYSTEMS AND
NON-PETROLEUM FLUIDS
EXCELLENT FLEXIBILITY AT BOTH HIGH AND LOW TEMPERATURES
EXCELLENT RESISTANCE TO ACIDS & ALKALIS
GOOD RESISTANCE TO FUELS AND OILS
DO NOT REQUIRE SEALANT

SIZES: 4"–48"



UNIVERSAL SPIRAL AIR

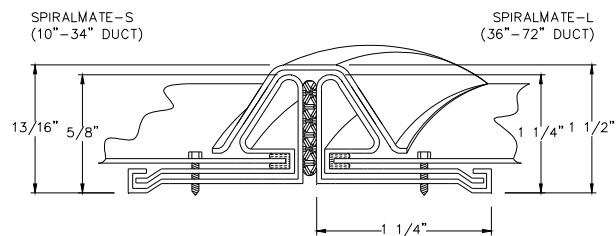
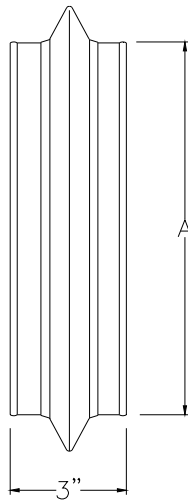
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ACCESSORIES

C-S COUPLER – SPIRALMATE (OVALMATE)



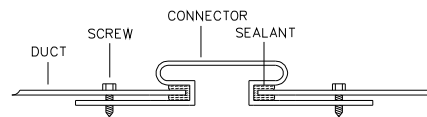
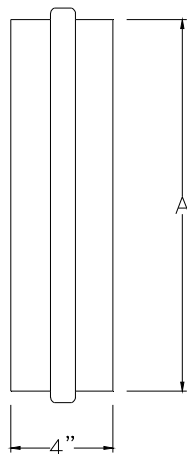
ROUND 3-PIECE CONNECTOR (2 PROFILED RINGS WITH FACTORY-INSTALLED MASTIC AND ONE CLOSURE RING)
INNER RINGS ARE SCREWED OR WELDED TO DUCT ENDS
GASKET APPLIED TO ONE INNER RING FACE
AVAILABLE IN ROUND OR OVAL
OVAL IS A 2-PIECE, 4-BOLT SYSTEM USING CLEATS INSTEAD OF A CLOSURE RING

ADVANTAGE – EASE OF ASSEMBLY AND DISASSEMBLY

APPLICATIONS – COMMERCIAL, EXPOSED COMMERCIAL, INDUSTRIAL

SIZES: 10"–72" (ROUND)
SIZES: 12"–36" (MINOR AXIS OVAL)

C-K COUPLER – KEATING



SELF-SEALING CONNECTOR
INSTALLED WITH SHEET METAL SCREWS
AVAILABLE IN ROUND AND OVAL SINGLEWALL
REQUIRE THAT DUCT HAVE ABSOLUTE SQUARE ENDS

APPLICATION – EXPOSED COMMERCIAL

SIZES: 10"–48" (ROUND)
SIZES: 10"–24" (MINOR AXIS OVAL)



UNIVERSAL SPIRAL AIR

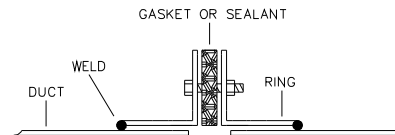
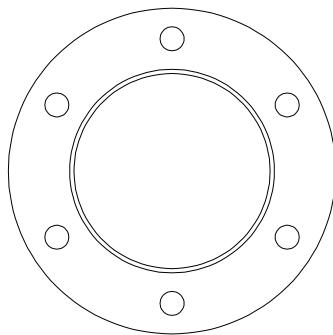
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ACCESSORIES

AR
ANGLE RING



HEAVY-DUTY, BOLTED FLANGE CONNECTOR
INSTALLED WITH FULL WELD
GASKET APPLIED TO INNER RING FACE
AVAILABLE IN ROUND OR OVAL
AVAILABLE IN SINGLE- OR DOUBLE-WALL

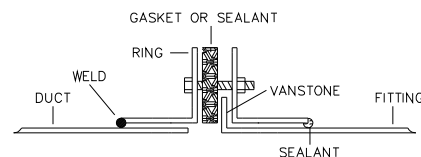
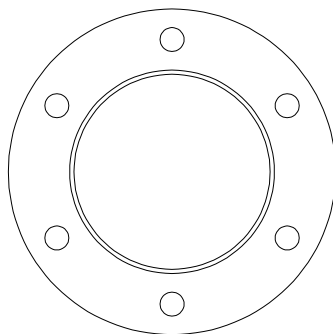
ADVANTAGE - SIGNIFICANT REINFORCING
USE AS INTERMEDIATE REINFORCEMENT OR HANGER SUPPORT

APPLICATIONS - INDUSTRIAL, LARGE-DIAMETER COMMERCIAL

SIZES: 3"-72" (ROUND)

SIZES: 3"-72" (MINOR AXIS OVAL)

AR-V
ANGLE RING - VANSTONE



HEAVY-DUTY, BOLTED FLANGE CONNECTOR
FACTORY-INSTALLED
GASKET ON INNER RING FACE
AVAILABLE IN ROUND OR OVAL

ADVANTAGE - SIGNIFICANT REINFORCING
EASE OF BOLT HOLE ALIGNMENT

APPLICATION - INDUSTRIAL, LARGE-DIAMETER COMMERCIAL

SIZES: 3"-72" (ROUND)

SIZES: 3"-72" (MINOR AXIS OVAL)



UNIVERSAL SPIRAL AIR

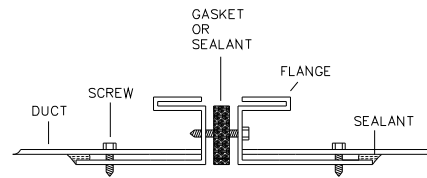
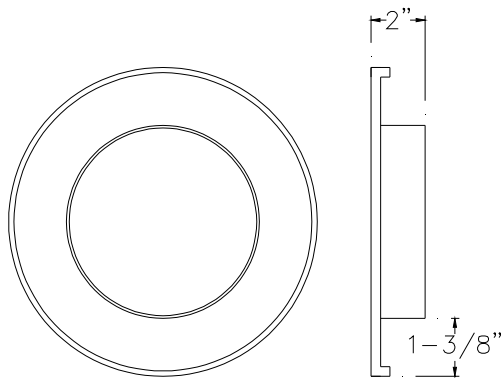
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ACCESSORIES

ACF ACCUFLANGE



REINFORCED SLIP CONNECTOR
REQUIRES ONLY SHEET METAL SCREWS & SEALANT
GASKET APPLIED TO INNER RING FACE
AVAILABLE IN ROUND OR OVAL

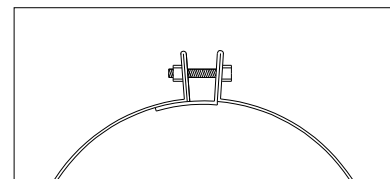
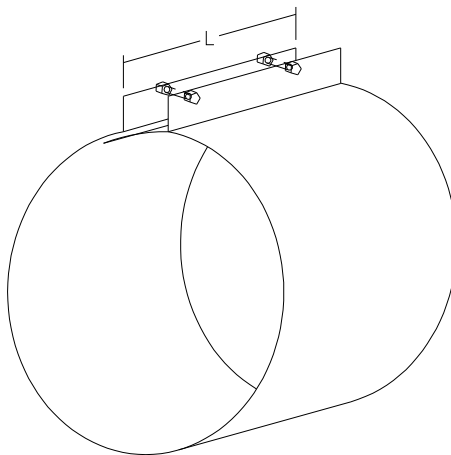
ADVANTAGE – SIGNIFICANT REINFORCING

APPLICATION – COMMERCIAL, EXPOSED
COMMERCIAL, & INDUSTRIAL

SIZES: 10"–94" (ROUND)

SIZES: 8"–72" (MINOR AXIS OVAL)

DBD DRAWBAND



DRAW BAND CONNECTOR
AVAILABLE FOR ROUND SINGLEWALL

ADVANTAGE – QUICK ASSEMBLY AND DISASSEMBLY
DO NOT REQUIRE SEALANT

APPLICATIONS – PRIMARILY USED IN MATERIAL HANDLING, FUME EXHAUST
SYSTEMS THAT REQUIRE PERIODIC CLEANING AND INSPECTION

SIZES: 3"–16"

L=4", UNLESS SPECIFIED



UNIVERSAL SPIRAL AIR

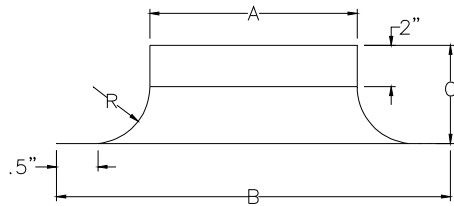
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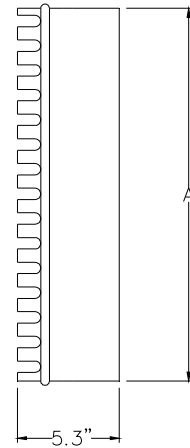
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ACCESSORIES

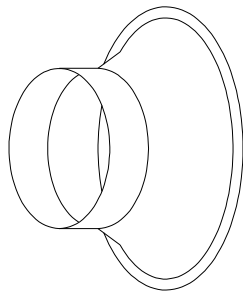
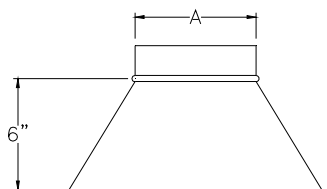
BM
SPUN BELLMOUTH FLANGE



ACLR
A-COLLAR

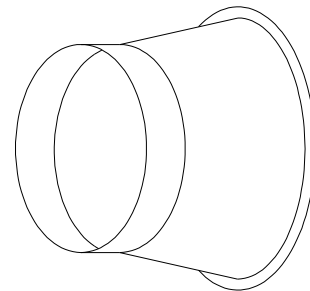
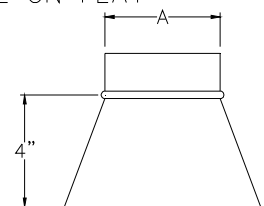


USA STARTER



TYPICAL GROWTH = $A+8$

CONICAL ON FLAT



TYPICAL GROWTH = $A+2$



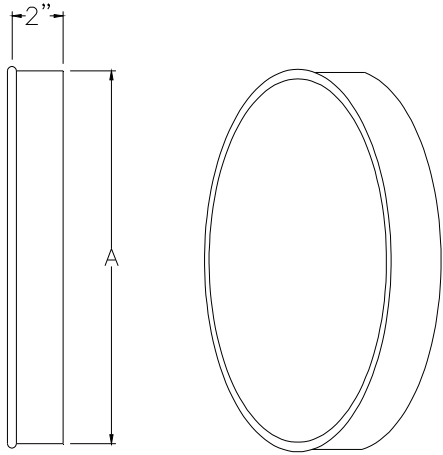
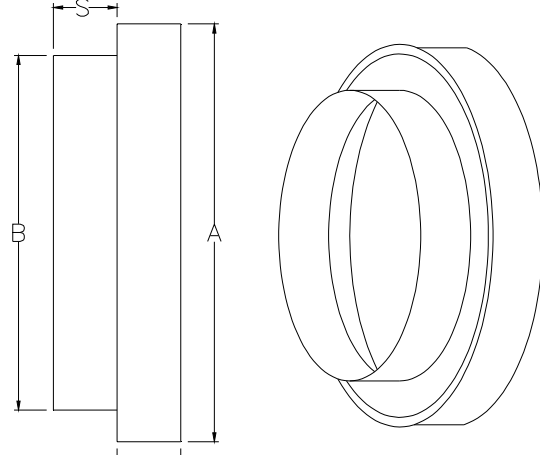
UNIVERSAL SPIRAL AIR

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ACCESSORIES

EC END CAP  OVAL – REPLACE "A" WITH W1xD1	BSHG BUSHING (INSULATION STOP)  S=2" SPECIFY "A" AS MALE OR FEMALE SPECIFY "B" AS MALE OR FEMALE OVAL – REPLACE A WITH W1xD1 AND B WITH W2xD2



UNIVERSAL SPIRAL AIR

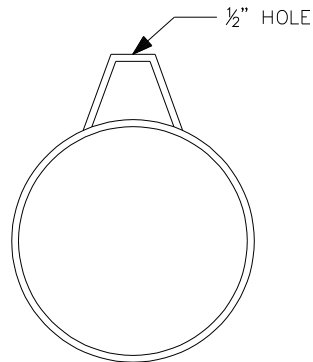
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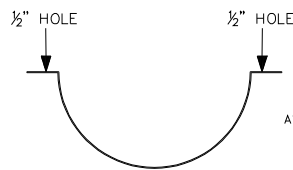
ACCESSORIES

HGR
USA WELDED HANGER



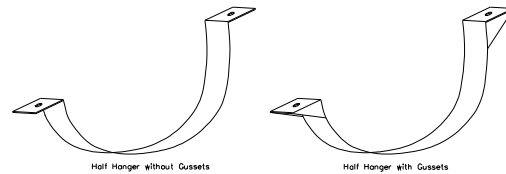
IN STOCK SIZES: EVEN SIZES 4"–24",

HGR–H
HALF HANGER



3–18in	18GA	1.5"wide	
19–24in	16GA	1.5"wide	
25–32in	16GA	1.5"wide	Gussets
33–36in	14GA	1.5"wide	Gussets
38–48in	12GA	1.5"wide	Gussets
49–59in	12GA	2"wide	Gussets
60in+	10GA	2"wide	Gussets

AVAILABLE SIZES: IN ALL DIAMETERS



AVAILABLE SIZES: IN ALL DIAMETERS

O–HGR–H
OVAL HALF HANGER



AVAILABLE SIZES: IN ALL DIAMETERS



UNIVERSAL SPIRAL AIR

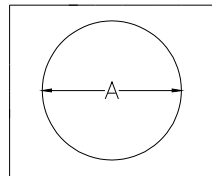
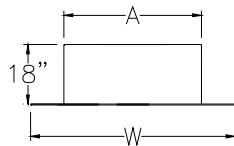
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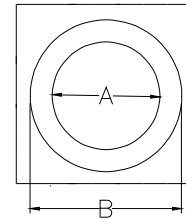
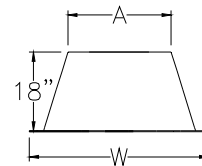
ACCESSORIES

FL
STANDARD FLATROOF FLASHING
(PITCH FLASHING AVAILABLE)



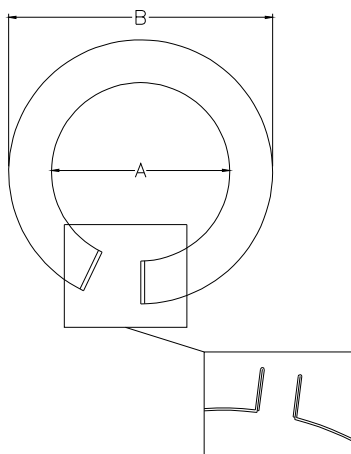
A=PIPE DIAMETER+2" (NO FLANGES ON PIPES)
A=PIPE DIAMETER+4" (PIPE w/ FLANGES (ASSUME 2"))
W=A+8"

FLC
CONE FLATROOF FLASHING
(PITCH FLASHING AVAILABLE)



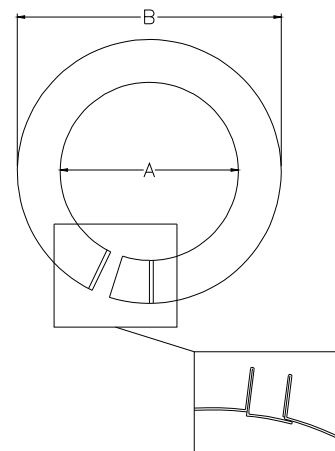
A=PIPE DIAMETER+2" (NO FLANGES ON PIPES)
A=PIPE DIAMETER+4" (PIPE w/ FLANGES (ASSUME 2"))
B=A+4"
W=A+8" ASSUME 2" FLANGE

BR
BEAUTY RING



A=PIPE DIAMETER
B=A+6" STANDARD, OTHERWISE
SPECIFIED

RCOL
RAIN COLLAR



NUTS & BOLTS PROVIDED

A=PIPE DIAMETER
B=A+10"



UNIVERSAL SPIRAL AIR

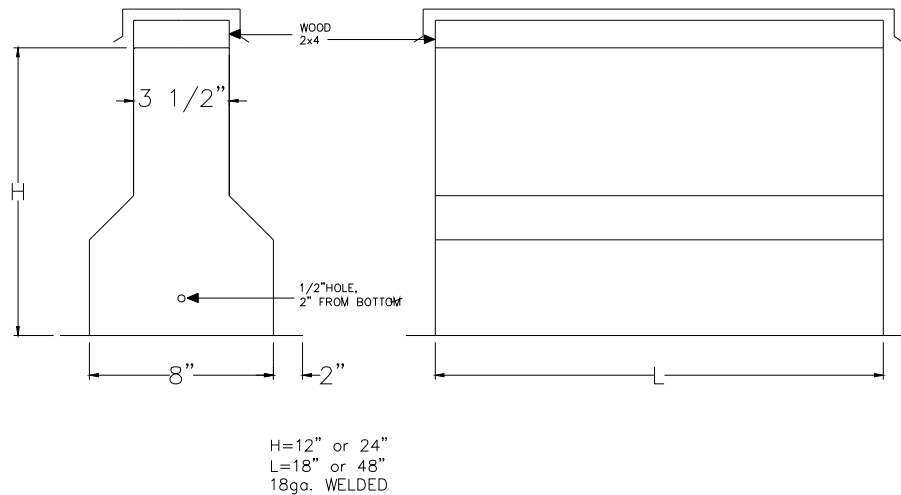
Manufacturer of Spiral, Oval and Rectangular Duct Systems

West Branch: 2735 West River Dr NW Walker MI 49544
616-475-5905 Fax: 616-475-6433 Email: sales@usaduct.com

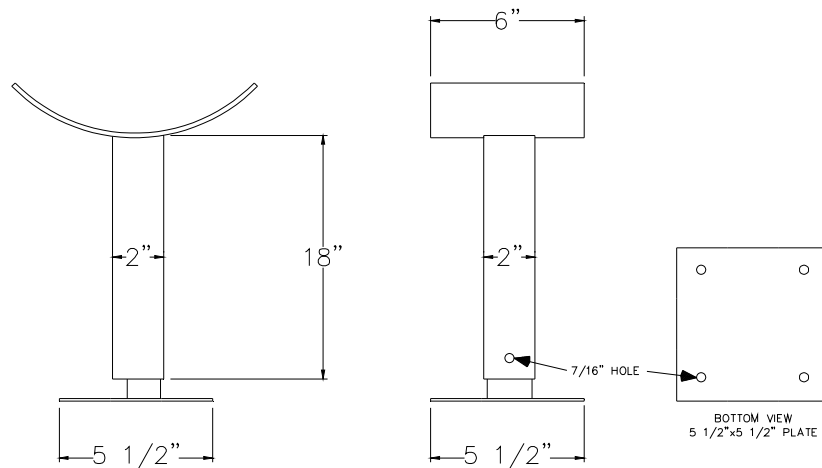
East Branch: 37050 Plymouth Rd., Livonia MI 48150
734-261-0410 Fax: 734-261-0435 Email: detsales@usaduct.com

ACCESSORIES

SE EQUIPMENT SUPPORT



SPS SPIRAL PIPE STANDS





UNIVERSAL SPIRAL AIR

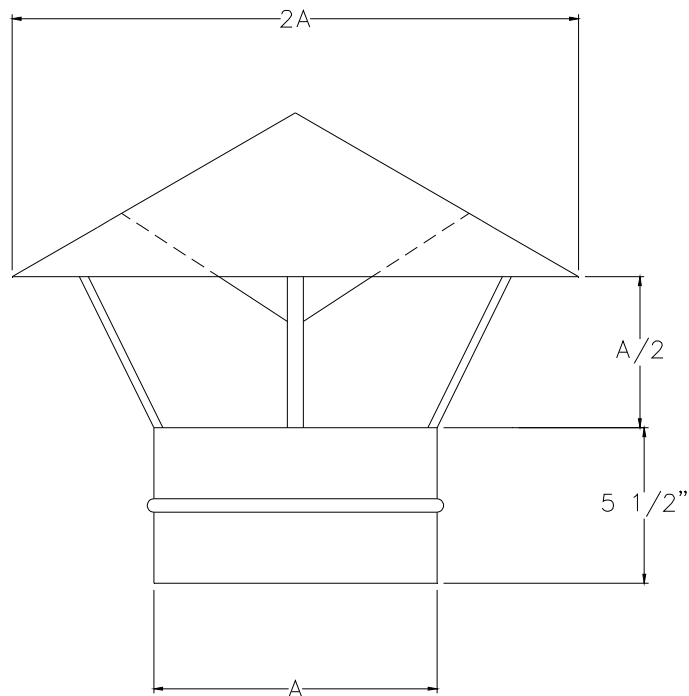
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ACCESSORIES

RC
RAIN CAP



SHOWN WITH SLIP CONNECTION
ANGLE RING CONNECTIONS AVAILABLE



UNIVERSAL SPIRAL AIR

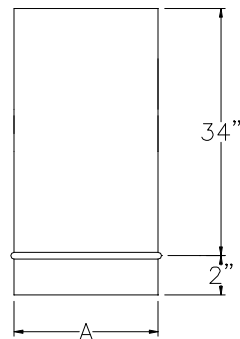
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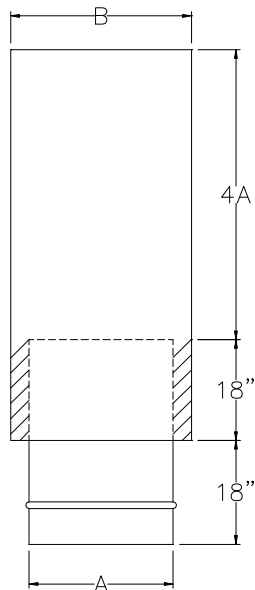
INDUSTRIAL

NLS
NO-LOSS STACK



COUPLING

A (INCHES)	GAUGE (GALVANIZED)
3-36	18
37-50	16
51-60	14



STACK
 $B = A + 2$

A (INCHES)	GAUGE (GALVANIZED)
5-36	20
37-60	18 **

**CORUGATED 48" AND ABOVE

SLIP STYLE SHOWN, ANGLE
RING COMMON 18" DIAMETER
AND LARGER



UNIVERSAL SPIRAL AIR

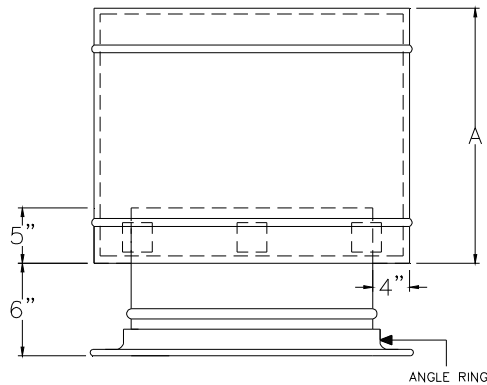
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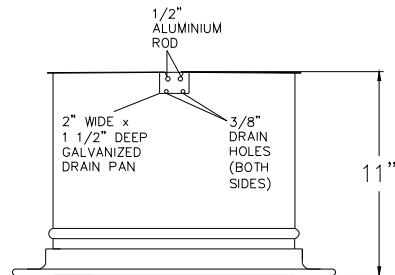
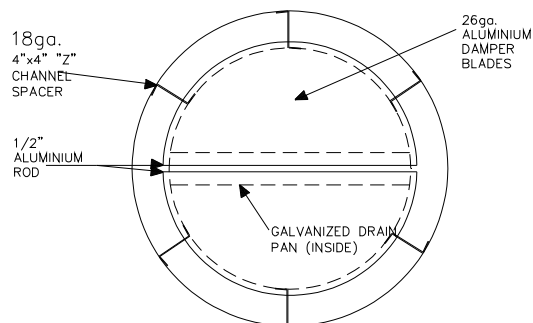
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INDUSTRIAL

BD
BUTTERFLY DAMPER



DIAMETER SIZE	A
12	16
14	18
16	20
18	21
20	22
24	24
30	27
36	29
42	34
48	36
54	40
60	43





UNIVERSAL SPIRAL AIR

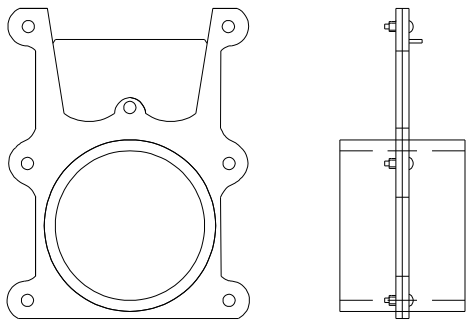
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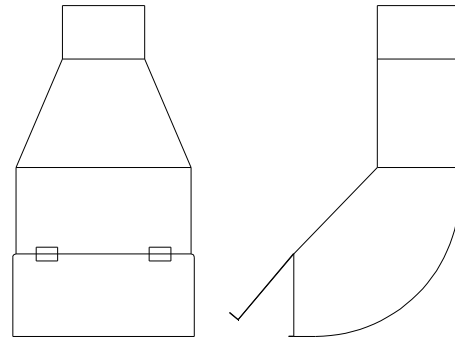
INDUSTRIAL

BGATE
BLASTGATE



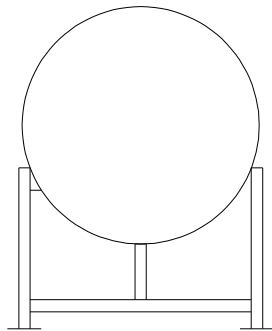
AVAILABLE SIZES: 3"–9" DIAMETER
EVEN SIZES: 10"–20" DIAMETER

FS
FLOOR SWEEP



AVAILABLE IN	
DIAMETER	DOOR OPENING
5"	10" x 3"
6"	12" x 4"

LARGE DIAMETER
PIPE STAND





UNIVERSAL SPIRAL AIR

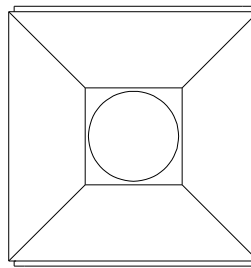
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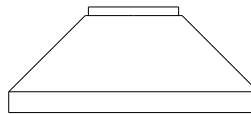
East Branch: 37050 Plymouth Rd., Livonia MI 48150
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INDUSTRIAL: WELDING HOODS

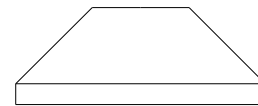
OVERHEAD
WELD HOOD



TOP

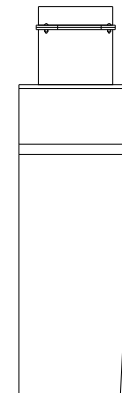
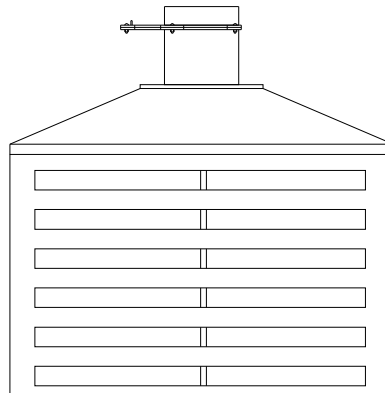


FRONT



SIDE

BENCH
WELD HOOD





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Other Products Available:

Double Wall Round
Single Wall Oval
Double Wall Oval



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USA manufactures Double Wall Spiral pipe & fittings. Most of the fittings within our single wall products can be made as double wall. Call for details on ordering and/or pricing.



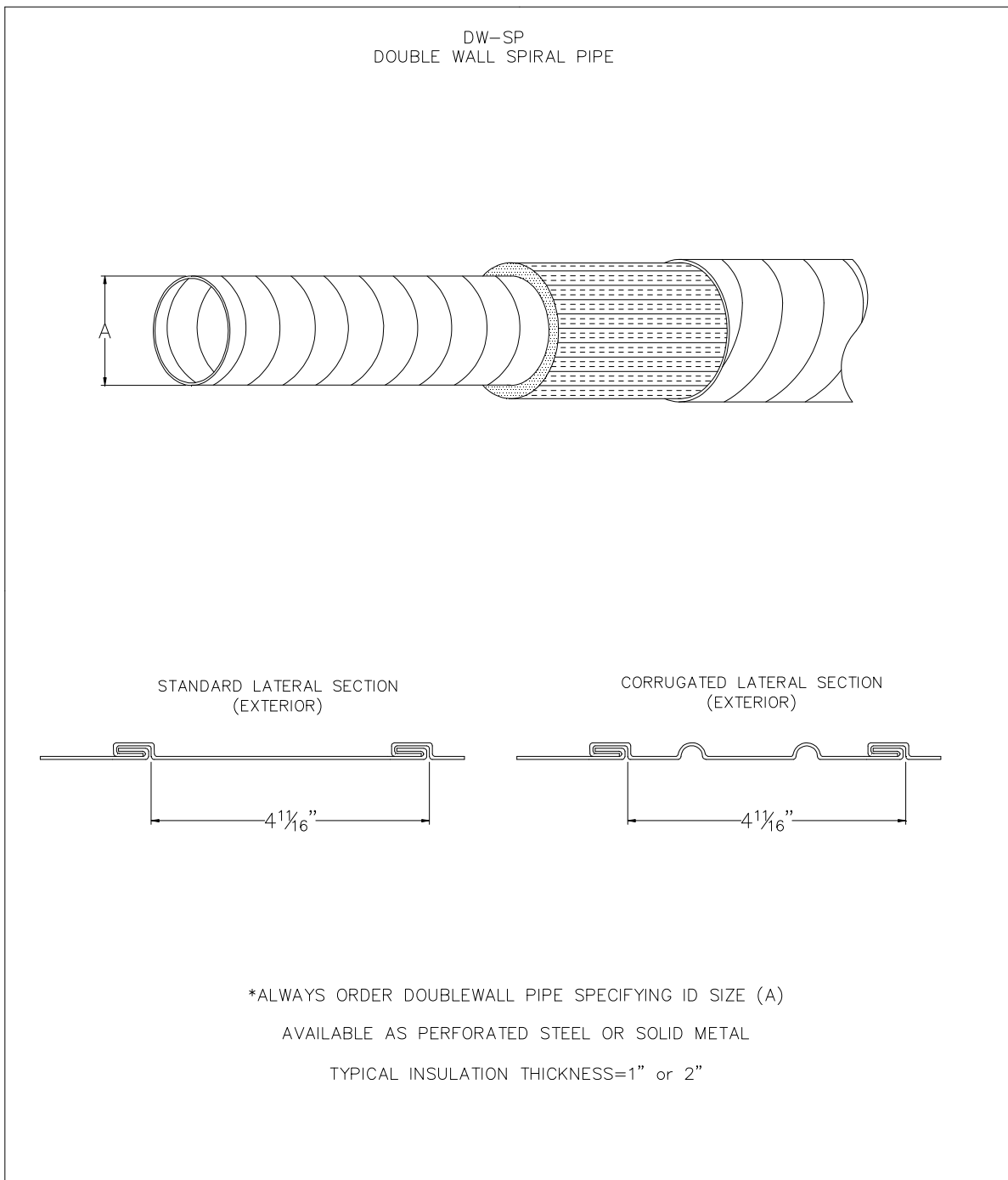
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ROUND: DOUBLEWALL





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East Branch: 37050 Plymouth Rd., Livonia MI 48150
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USA manufactures Single & Double Wall Oval pipe & fittings. Most of the fittings within our single wall products can be made as single & double wall. When ordering, oval elbows must be ordered as easy or hard bend (see following pages for details). Call for details on ordering and/or pricing.



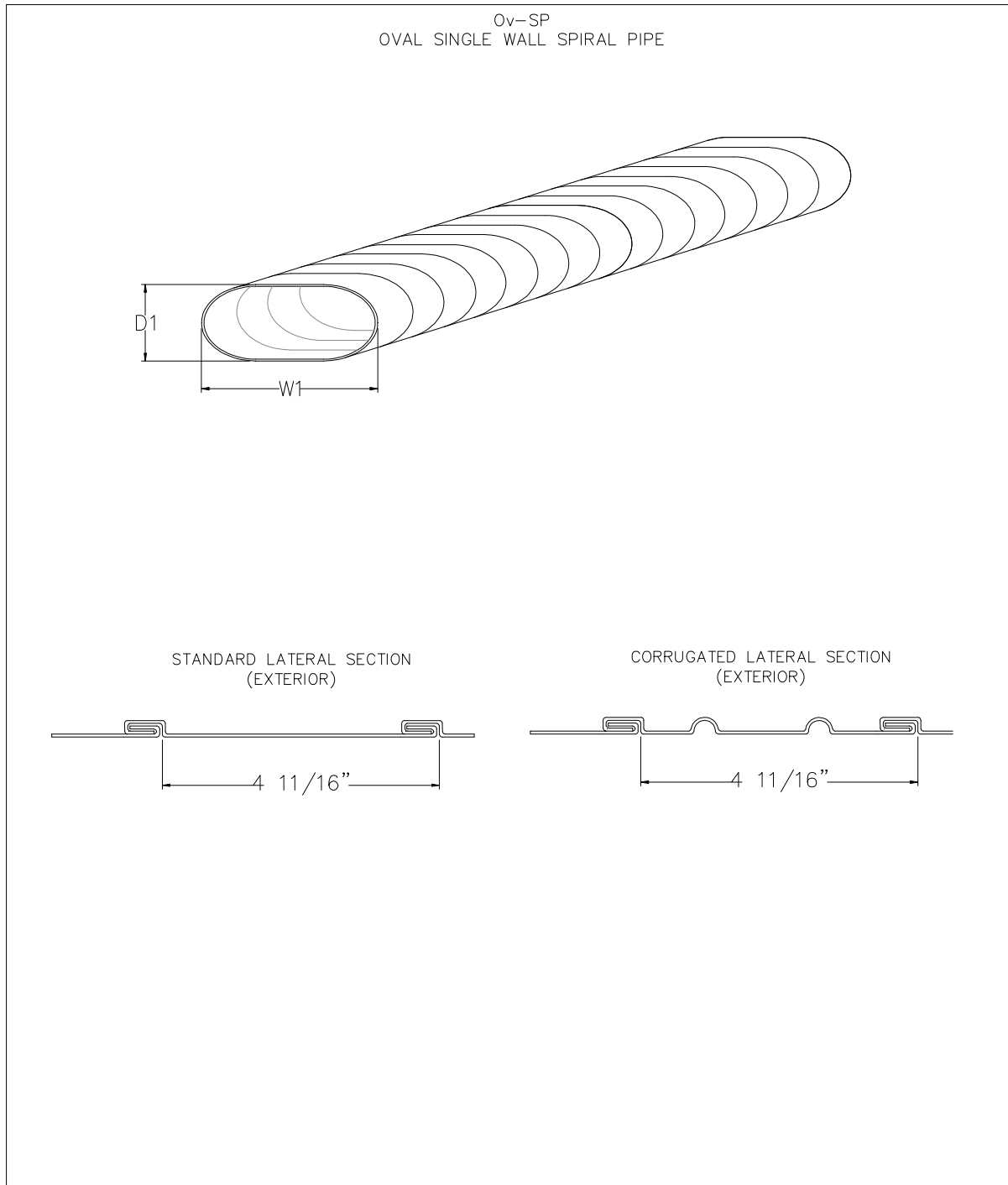
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OVAL: SINGLEWALL





UNIVERSAL SPIRAL AIR

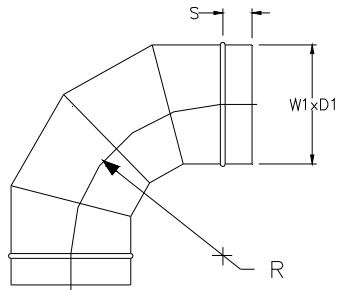
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OVAL: SINGLEWALL

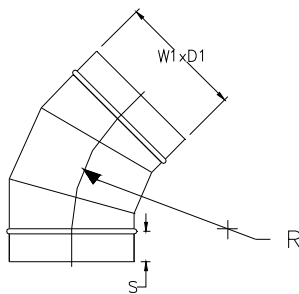
Ov-E90 1.0 or 1.5
OVAL ELBOW 90°
HARD BEND (SHOWN)



S=2"
R=1.0xW1
ANY ANGLE

0°-35° - 2 PIECES
36°-71° - 3 PIECES
72°-90° - 4 PIECES

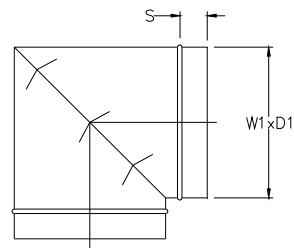
Ov-E45 1.0 or 1.5
OVAL ELBOW 45°
HARD BEND (SHOWN)



S=2"
R=1.0xW1
ANY ANGLE

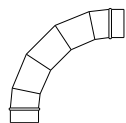
0°-35° - 2 PIECES
36°-71° - 3 PIECES
72°-90° - 4 PIECES

Ov-E90MT
OVAL MITERED ELBOW 90°

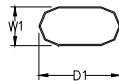


S=4"
THROAT MINIMUM 6"+S
3" DIAMETER & OVER
90° TYPICAL

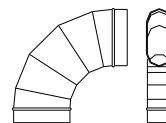
OVAL DUAL ELBOWS ARE AVAILABLE IN ANY ANGLE IN "EASY BEND" AND "HARD BEND"



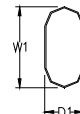
EASY
BEND
(EB)



TYPICALLY VERTICAL



HARD
BEND
(HB)



TYPICALLY HORIZONTAL



UNIVERSAL SPIRAL AIR

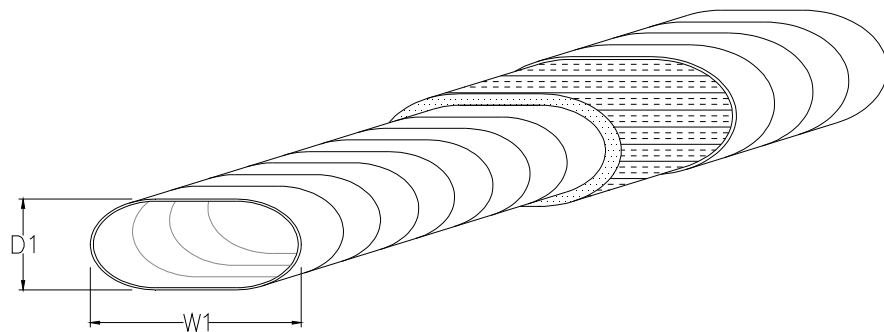
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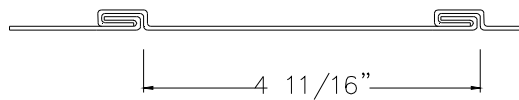
East Branch: 37050 Plymouth Rd., Livonia MI 48150
734-261-0410 Fax: 734-261-0435 Email: detsales@usaduct.com

OVAL: DOUBLEWALL

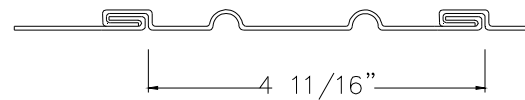
Ov-DW-SP
OVAL DOUBLE WALL SPIRAL PIPE



STANDARD LATERAL SECTION
(EXTERIOR)



CORRUGATED LATERAL SECTION
(EXTERIOR)



*ALWAYS ORDER DOUBLEWALL PIPE SPECIFYING ID SIZE (D1)

D1 = INNER PIPE DIAMETER
AVAILABLE AS PERFORATED STEEL OR SOLID METAL

TYPICAL INSULATION THICKNESS=1" OR 2"



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