

DURABLE AND EFFICIENT

EASY TO INSTALL

CUSTOM AIR SPIRAL DUCT AND FITTINGS

PRODUCT CATALOG



- Round
- Oval
- Single Wall
- Dual Wall
- Connectors & Accessories

INDEX

	Section - Page Number					
	Single Wall Round	Single Wall Oval	Dual Wall Round	Dual Wall Oval		
Introduction	i-2, i-3					
AVRON46® Antimicrobial Coating	1-1					
Velocity® Gasketed Joint System	1-2					
Slip Connections	1-3		1-6			
Angle Ring Connections	1-4		1-7	1-8		
Standard Angle Ring Sizes	1-5					
AccuFlange™ End Connections	1-9					
Dual to Single Wall Adaptors	1-10, 1-11					
Rectangular to Round Conversion Chart	1-12, 1-13					
Rectangular to Round & Oval Conversion Calculator	1-14					
Gauge and Construction Charts	2-1, 2-2	3-1 to 3-3	4-1, 4-2	5-1 to 5-3		
Elbows	2-3, 2-4	3-4, 3-5	4-3, 4-4	5-4, 5-5		
Tee Fittings	2-5	3-6	4-5	5-6		
Conical Tee Fittings	2-6	3-7	4-6	5-7		
Combination Tee Fittings	2-7	3-8	4-7	5-8		
Lateral Fittings	2-8	3-9	4-8	5-9		
Conical Lateral Fittings	2-9	3-10	4-9	5-10		
Wye Fittings and Bullhead Tees	2-10	3-11	4-10	5-11		
Reducers	2-11	3-12	4-11	5-12		
Miscellaneous	2-12	3-13	4-12	5-13		
Saddle Taps	2-13 to 2-16	-	-	-		
Industrial Fittings	2-17, 2-18	-	-	-		
Access Doors	6-1 to 6-3		6-4 to 6-6			
Ductmate® Access Doors	6-7					
RTR Transitions	6-8					
Duct Reinforcement	6-9					
Oval Reinforcement Charts	6-10 to 6-16					
Bellmouths	6-17					
Loose Rectangular Taps	6-18					
Installed Rectangular Taps	6-19					
Linear Diffuser Slots	6-20					
Volume Dampers	6-21					
Diffus-a-Plate Duct Diffusers	6-22 to 6-25					
Perforated Spiral Duct & Orifice Plates	6-26					
Manifolding	6-27, 6-28					

ANTIMICROBIAL SPIRAL DUCT AND FITTINGS

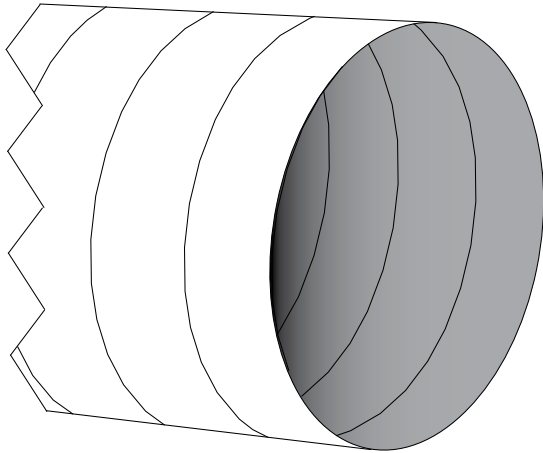
1



The economic way to prevent mold from becoming a problem in your HVAC system!

Over the last several years, concerns about mold and mildew growth in HVAC systems have increased significantly.

With an active ingredient approved for use by the EPA*, AVRON46® provides superior protection for only a fraction of the cost.

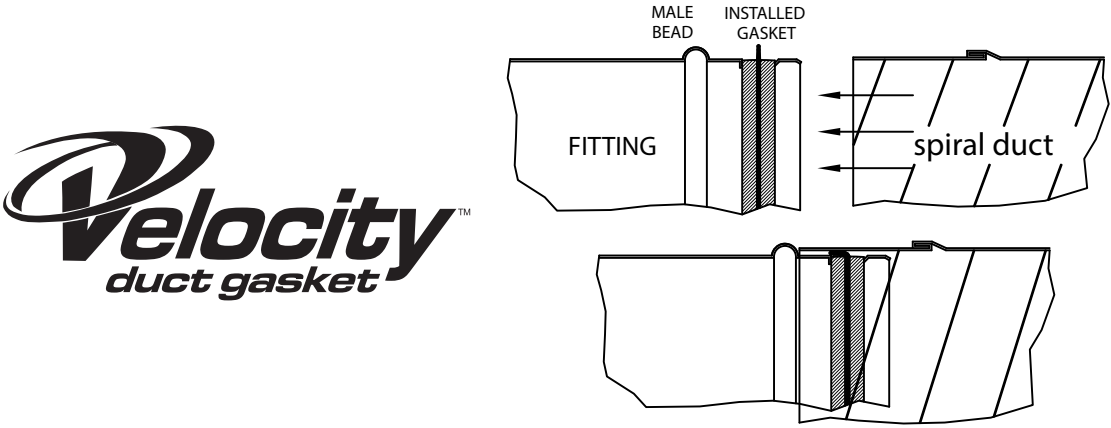


The gray coating of AVRON46® can be factory applied to the Interior of FläktGroup® FläktGroup SEMCO® duct and fittings to prevent mold.

FläktGroup® SEMCO® duct & acoustical products are available pre-coated with the industry's most affordable solution to effective prevention of mold growth in HVAC systems.

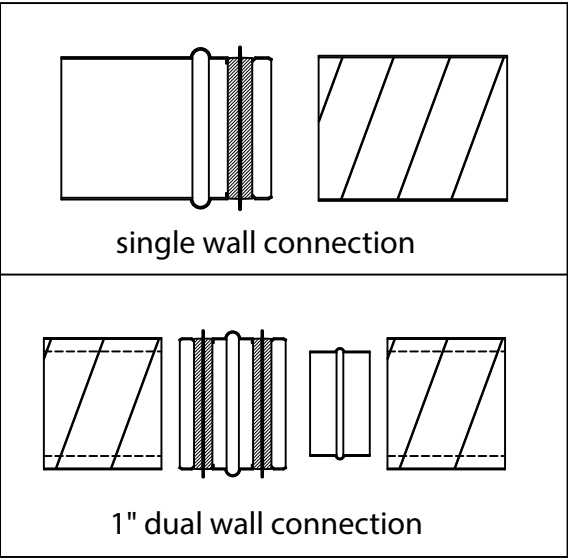
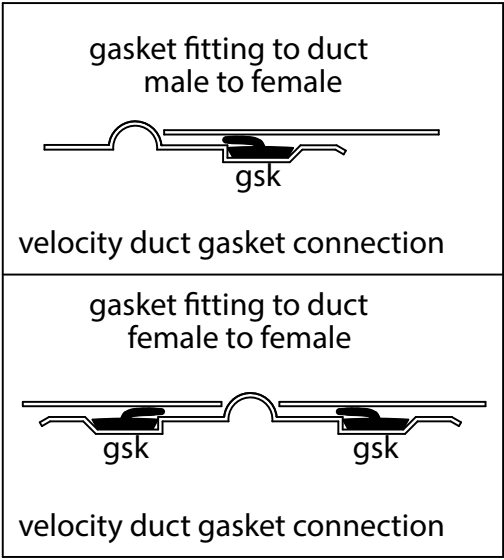
- Available for Round and Oval, Single Wall and Dual Wall products
- Typical application of AVRON46® is to the interior surface.
- Post manufacturing application of AVRON46 assures maximum interior coverage.
- AVRON46 utilizes an EPA* registered active ingredient approved for use in air duct systems.
- AVRON46 does not release any VOC's into the air stream.
- Exterior application of AVRON46 is available upon request.
- Gray pigment provides a natural HVAC duct look.

VELOCITY®
GASKETED JOINT SYSTEM



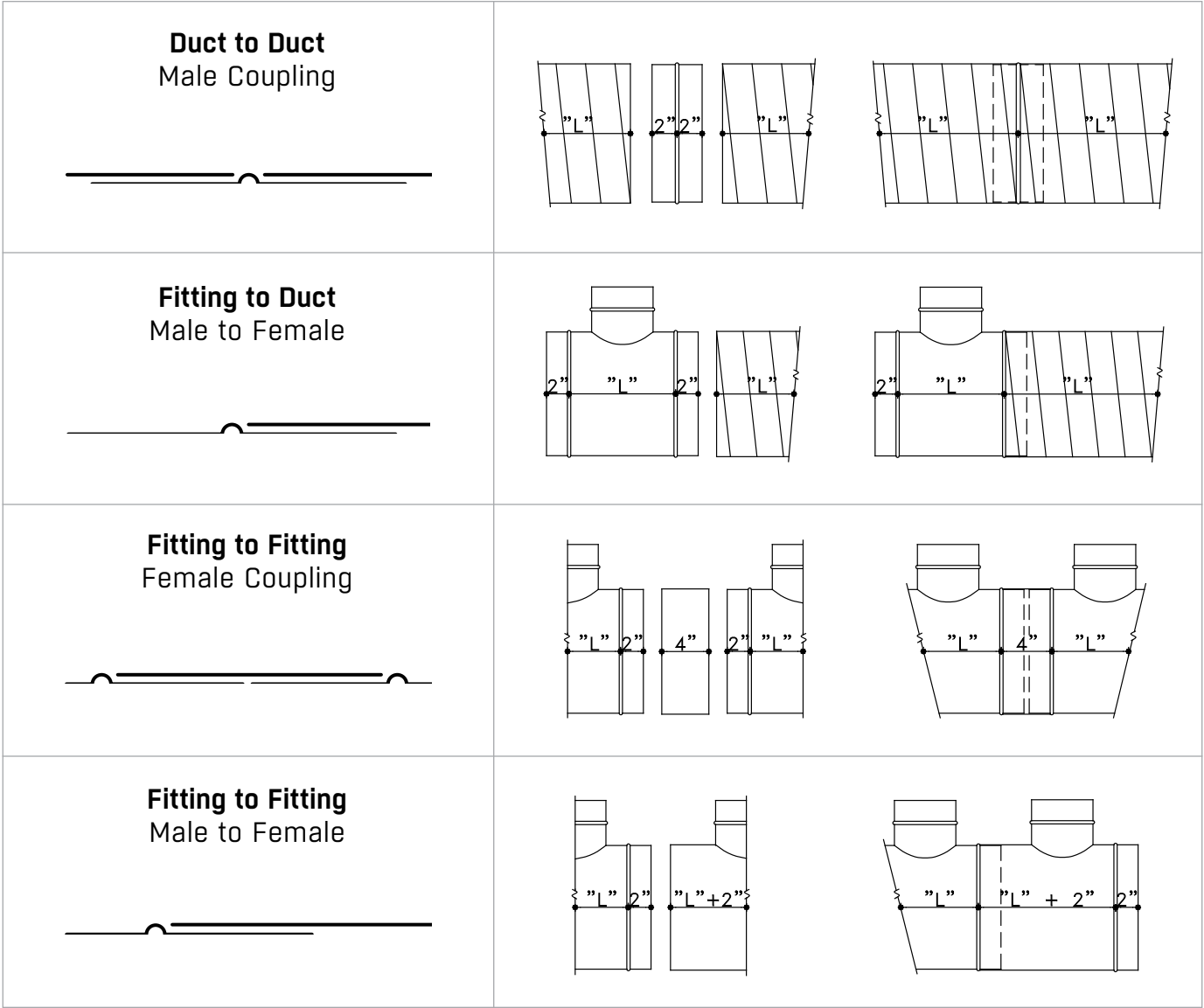
SINGLE WALL Ø	SP GAUGE	FITTING GAUGE	SPIRAL DUCT STD. LENGTH
4" - 14"	26	24	10'-0"
15" - 24"	24	24	10'-0"

1" DUAL WALL Ø	SP GAUGE	FITTING GAUGE	SPIRAL DUCT STD. LENGTH
3" - 12" I.D.	26	24	10'-0"
13" - 22" I.D.	24	22	10'-0"



VELOCITY GASKET JOINTS ARE AVAILABLE ON STANDARD SINGLE WALL AND 1" DUAL WALL DUCT
GALVANIZED STEEL IN DIAMETERS 4" THROUGH 24" OD
THE VELOCITY GASKET HAS BEEN INDEPENDENTLY TESTED AND APPROVED
IN ACCORDANCE WITH ASTM E84-00A / NFPA 255 / NFPA 90A.

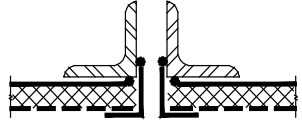
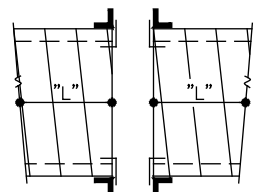
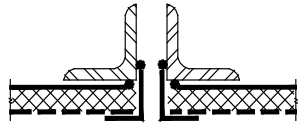
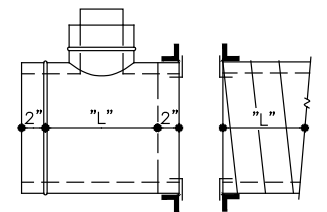
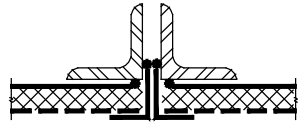
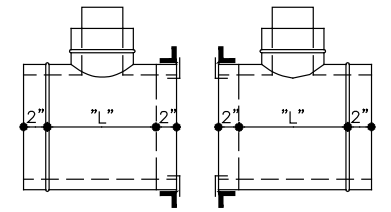
SLIP CONNECTIONS
SINGLE WALL ROUND AND OVAL



A solid welded companion angle joint, ASW, consists of an angle ring solid welded to the sheet metal duct on the interior of the ring. Use of an ASW on both sides of a joint requires special alignment of bolt holes during fabrication.

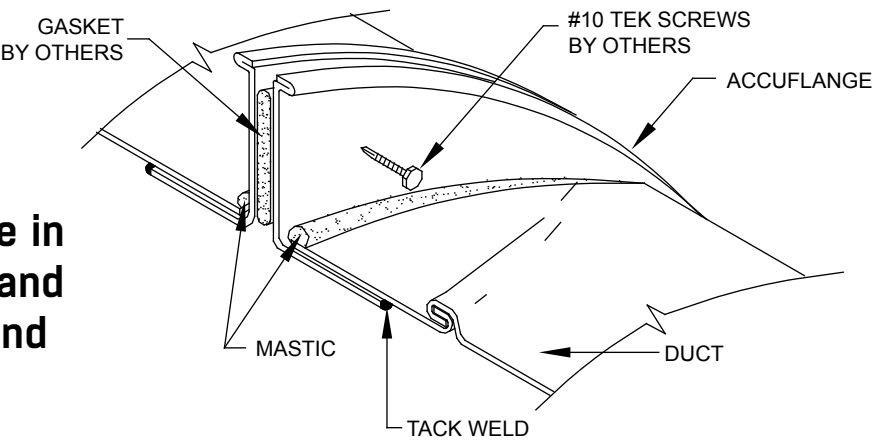
A Vanstone companion angle joint, AVS, consists of a loose angle ring behind a turned up flange on the end of the sheet metal duct. The angle ring is tacked to the duct for shipment and is broken loose in the field for alignment of bolt holes.

ANGLE RING CONNECTIONS
DUAL WALL OVAL

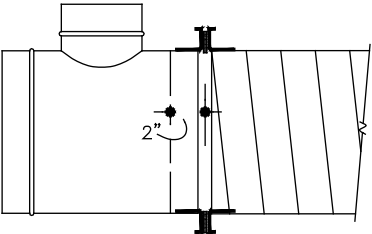
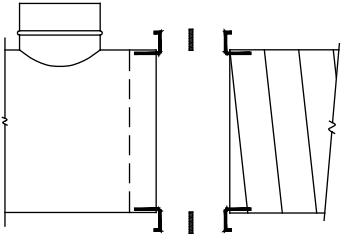
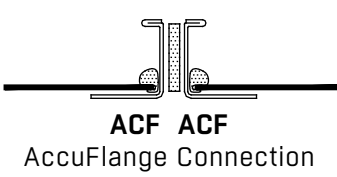
Duct to Duct with Flat Span Liner Support	 ASW ASW Solid Weld Solid Weld Standard for Oval Standard for Oval	
Fitting to Duct with Flat Span Liner Support	 ASW ASW Solid Weld Solid Weld Standard for Oval Standard for Oval	
Fitting to Fitting with Flat Span Liner Support	 ASW ASW Solid Weld Solid Weld Standard for Oval Standard for Oval	

ACCUFLANGE™
END CONNECTIONS

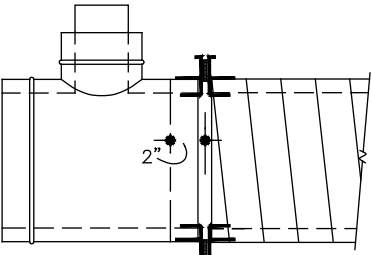
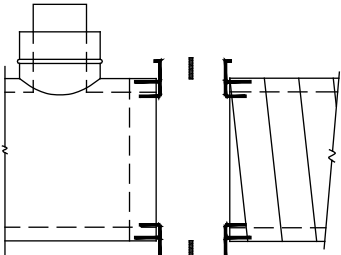
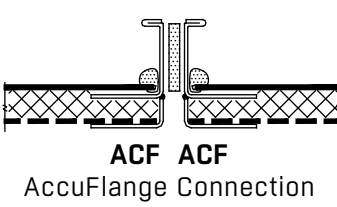
AccuFlange is Available in
Galvanized, Stainless, and
Aluminum on Round and
Oval Spiral Duct



Single Wall Connection



Dual Wall Connection
with Sealed Off Insulation



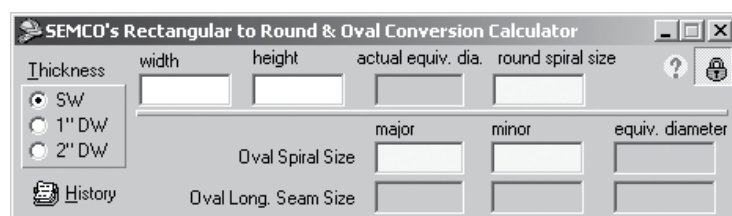
Note: AccuFlange requires a minimum of 5"ø for round duct and 5"ø (minor) for oval duct. Screws and gaskets for AccuFlange connections are to be furnished by others. AccuFlange is a registered trademark of Spinfinity.

COMPUTER UTILITIES

Rectangle to Round and Oval Conversion Calculator

MicroLink™ Rectangular to Round and Oval Conversion Calculator is designed to aid in the conversion of rectangular HVAC layouts to round and oval duct and fittings. Enter the rectangular size shown on the drawings and it will calculate the equivalent round diameter and list our recommended round diameter and oval major/minor. The History button will give you a printable listing of all sizes calculated during the current session. When you start up your next session, you will be prompted to clear the history for the last session.

The calculator is available for download from our website at www.semcohvac.com. Go to the Duct section from home page and look on the left hand column for Utilities to find the link to download the “Rectangle to Round Calculator”. For assistance or to request a copy on CD, contact your local sales representative or FläktGroup® SEMCO® directly.



GAUGE & CONSTRUCTION CHART

2

Construction Standard 0 to 10"wg. Positive Pressure				
Nominal Diameter	Galv. Spiral Duct Ga.	Galv. Fitting Ga.	Spiral Duct Wt. (lb/ft)	Spiral Duct Std. Lgth. (ft)
3	26	26	0.73	10
4	26	26	1.02	10
5	26	26	1.31	10
6	26	26	1.59	10
7	26	26	1.87	10
8	26	26	2.15	10
9	26	26	2.42	10
10	26	26	2.7	10
11	26	26	2.98	10
12	26	26	3.25	10
13	26	26	3.53	10
14	26	26	3.8	10
15	26	24	4.07	10
16	26	24	4.35	10
17	26	24	4.62	10
18	26	24	4.9	10
19	26	24	5.17	10
20	26	24	5.44	10
21	26	24	5.72	10
22	26	24	5.99	10
24	26	24	6.54	10
26	24	22	9.04	10
28	24	22	9.74	10
30	24	22	10.43	10
32	24	22	11.13	10
34	24	22	11.83	10
36	24	22	12.53	10
38	24	22	13.22	10
40	24	22	13.92	10
42	24	20	14.62	10
44	22	20	18.63	10
46	22	20	19.47	10
48	22	20	20.32	10
50	22	20	21.17	10
52	22	20	22.02	10
54	22	20	22.86	10
56	22	20	23.72	10
58	22	20	24.56	10
60	22	20	25.41	10
62	22	18	26.25	10
64	22	18	27.1</	

