

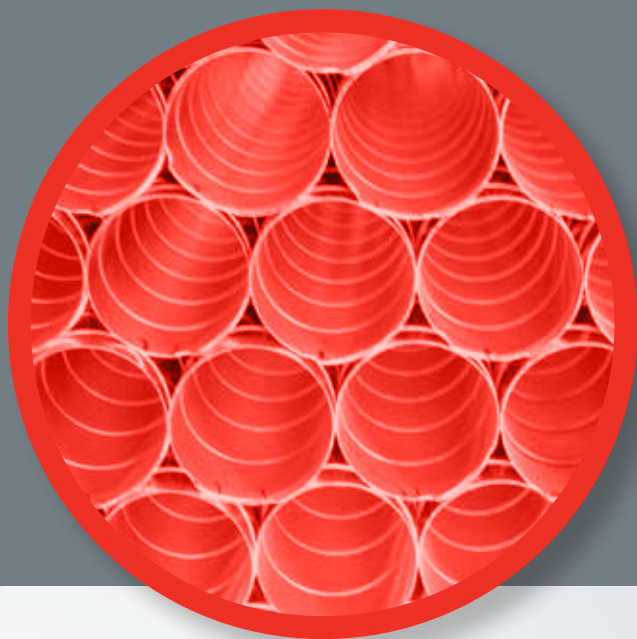


# HVAC Solutions

HVAC Products

Triple Lock® Metal Duct

Fabriflex™ Duct



Flexmaster has proudly supplied superior HVAC products to the ICI construction industry for over 35 years. Our extensive range of specified product offer numerous value-added features & benefits.

Flexmaster combines various patented processes with numerous unique product characteristics to produce a wide range of revolutionary ducting and accessory products.

We are proud of our products and their acceptance in the marketplace. Flexmaster is active in various industry associations and programs and dedicated to enhancing quality standards for the benefit of all industry participants.

Flexmaster flexible ducting products are UL Approved as Class 1 Air Duct and have a Flame Spread Rating of not over 25 without evidence of continued progressive combustion and a Smoke Developed Rating of not over 50. Thermal resistance R4.2, R6 and R8.

*All Flexmaster products are warranted to be free from all defects in material and workmanship. It is impossible to test Flexmaster products under all conditions to which they might be subjected in the field. It is therefore the buyer and/or end users' responsibility to test all Flexmaster products under conditions that duplicate the service conditions prior to installation.*

**Shipping Terms: F.O.B. Our Warehouses**

*Due to continuous improvements, all specifications are subject to change without prior notice.*

**Metal non-combustible flexible duct is ideally suited for a wide range of HVAC applications.**

### **Triple Lock™ Alluminum**

#### ***Non-Insulated Pressure Rated***

10" w.g. positive thru 16" Dia.  
6" w.g. positive, 18" Dia.  
12" w.g. negative, thru 16" Dia.  
4" w.g. negative, 18" Dia.

#### ***Rated Velocity***

5500 F.P.M.

Operating Temperature Range:

-60°F to +600°F

Flame/Smoke: 25/50 UL 181 Class 0



### **Triple Lock™ Stainless Steel**

#### ***Non-Insulated Pressure Rated***

12" w.g. positive (all Dia.)  
12" w.g. negative (all Dia.)

#### ***Rated Velocity***

5500 F.P.M.

Operating Temperature Range: -60°F to 1500°F

Flame/Smoke: 0/0 UL 181 Class 0





## TRIPLE LOCK® THERMAL FLEX DUCT

Insulated metal duct with outer vapour barrier controls vapour transmission and condensation.

### T/L-T

#### *Insulated Pressure Rated*

10" w.g. positive thru 16" Dia.  
6" w.g. positive, 18" Dia.  
12" w.g. negative, thru 16" Dia.  
4" w.g. negative, 18" Dia.

#### *Rated Velocity*

5500 F.P.M.

#### *Vapour Barrier Permeance*

.10 Perm A.S.T.M. E96, Procedure A

Operating Temperature Range: -20°F to +250°F  
Flame/Smoke 25/50 UL 181 Class 1  
Thermal Resistance: R-4.2, R-6.0, R-8.0



### T/L-M

#### *Insulated Pressure Rated*

10" w.g. positive thru 16" Dia.  
6" w.g. positive, 18" Dia.  
12" w.g. negative, thru 16" Dia.  
4" w.g. negative, 18" Dia.

#### *Rated Velocity*

5500 F.P.M.

#### *Vapour Barrier Permeance*

.05 Perm A.S.T.M. E96, Procedure A

Operating Temperature Range: -20°F to +250°F  
Flame/Smoke: 25/50 UL 181 Class 1  
Thermal Resistance: R-4.2, R-6.0, R-8.0



## TRIPLE LOCK® ACOUSTIC FLEX DUCT

A perforated inner-core reduces noise generated by mechanical equipment or system vibration.

### T/L-A-T/L

#### *Insulated Pressure Rated*

6" w.g. positive thru 16" Dia.  
2" w.g. negative thru 16" Dia.

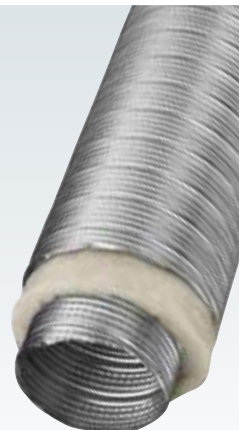
#### *Rated Velocity*

4000 F.P.M.

#### *Vapour Barrier*

Triple Lock®, Aluminum Jacket

Operating Temperature Range: -20°F to +250°F  
Flame/Smoke 25/50 UL 181 Class 1



### T/L-A

#### *Insulated Pressure Rated*

2" w.g. positive thru 16" Dia.  
1" w.g. negative, 10" Dia.

#### *Rated Velocity*

4000 F.P.M.

#### *Vapour Barrier Permeance*

.10 Perm A.S.T.M. E96, Procedure A

Operating Temperature Range: -20°F to +250°F  
Flame/Smoke 25/50 UL 181 Class 1  
Thermal Resistance: R-4.2, R-6.0, R-8.0



### T/L-AM

#### *Vapour Barrier Permeance*

.05 Perm A.S.T.M. E96, Procedure A





A patented outside mechanical lock provides a positive seal and eliminates the need for problematic adhesives. Choose a duct to handle internal operating pressures, provide thermal reliability or meet critical noise criteria levels.

## Fabriflex™ Ducting

### **Fab 3** (Non-Insulated)

#### *Pressure Rated*

20" w.g. positive  
10" w.g. neg thru 12" dia.  
5" w.g. neg 14" & 16" dia.  
1" w.g. neg. 18" & 20" dia.

#### *Rated Velocity*

5500 F.P.M.

#### *Core*

Trilaminate of Aluminum Foil, Fiberglass  
and Aluminized Polyester

### **Fab 3T** (Insulated)

#### *Vapour Barrier Permeance*

.10 Perm A.S.T.M E96 Procedure A

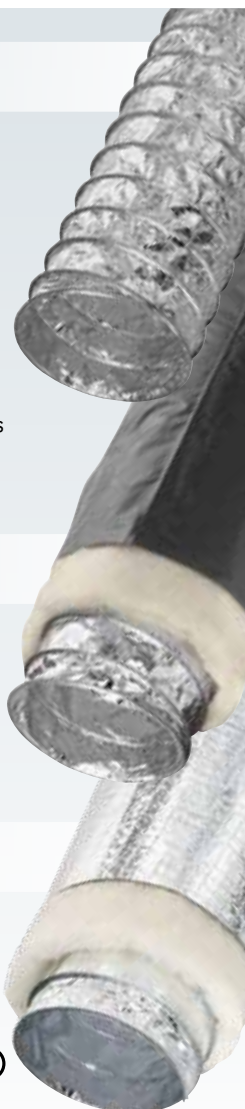
Connector Rated

### **Fab 3M** (Insulated)

#### *Vapour Barrier Permeance*

.05 Perm A.S.T.M E96 Procedure A

Duct Rated



## Fabriflex™ Ducting

### **Fab 4** (Non-Insulated)

#### *Pressure Rated*

25" w.g. positive  
10" w.g. neg thru 12" dia.  
5" w.g. neg 14" & 16" dia.  
1" w.g. neg. 18" & 20" dia.

#### *Rated Velocity*

5500 F.P.M.

#### *Core*

PVC Coated Fiberglass Cloth

### **Fab 4T** (Insulated)

#### *Vapour Barrier Permeance*

.10 Perm A.S.T.M. Procedure A

Connector Rated

### **Fab 4M** (Insulated)

#### *Vapour Barrier Permeance*

.05 Perm A.S.T.M. E96 Procedure A

Duct Rated



Flexible ducting connects mixing boxes, light troffers, diffusers, and other terminals to air distribution systems.

## Fabriflex™ Low Pressure Ducting

### Fab 5 (Non-Insulated)

#### Pressure Rated

10" w.g. positive  
10" w.g. neg thru 12" dia.  
5" w.g. neg 14" & 16" dia.  
1" w.g. neg. 18" & 20" dia.

#### Rated Velocity

5500 F.P.M.

#### Core

Trilaminate of Aluminum Foil, Fiberglass  
and Aluminized Polyester

### Fab 5T (Insulated)

#### Vapour Barrier Permeance

.10 Perm A.S.T.M. Procedure A

Connector Rated

### Fab 5M (Insulated)

#### Vapour Barrier Permeance

.05 Perm A.S.T.M. E96 Procedure A

Duct Rated



## Fabriflex™ Acoustical Ducting

### Fab 6 (Non-Insulated)

#### Pressure Rated

6" w.g. positive  
5" w.g. neg thru 16" dia.  
1" w.g. neg. 18" & 20" dia.

#### Rated Velocity

5500 F.P.M.

#### Core

SPUNBOND Nylon Fabric

### Fab 6T (Insulated)

#### Vapour Barrier Permeance

.10 Perm A.S.T.M. Procedure A

Connector Rated

### Fab 6M (Insulated)

#### Vapour Barrier Permeance

.05 Perm A.S.T.M. E96 Procedure A

Duct Rated





Our Fabriflex™ line of flexible ducting products conforms to NFPA standards 90A and 90B; tested in accordance with UL-S110M or UL-181 standards under — Factory-Made Air Ducts and Air Ducts. Flexible ducts must be installed in accordance with the conditions of their UL/UL Listings.

## Fabriflex™ Ducting

### **Fab 8** (Non-Insulated)

#### *Pressure Rated*

10" w.g. positive  
5" w.g. neg thru 16" dia.  
1" w.g. neg. 18" & 20" dia.

#### *Rated Velocity*

5500 F.P.M.

#### *Core*

Chlorinated Polyethylene  
(CPE) Fabric

### **Fab 8T** (Insulated)

#### *Vapour Barrier Permeance*

.10 Perm A.S.T.M Procedure A

#### *Type*

Connector

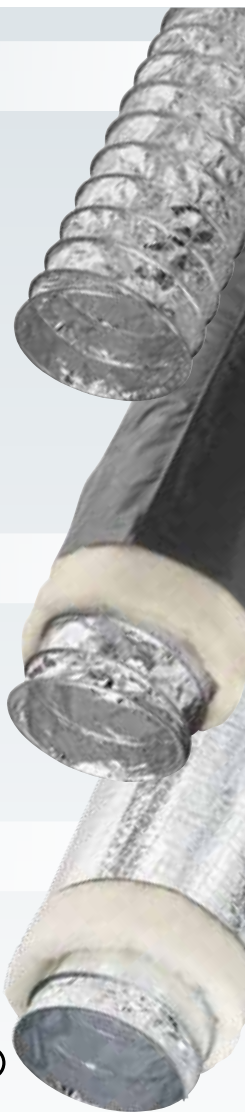
### **Fab 8M** (Insulated)

#### *Vapour Barrier Permeance*

.05 Perm A.S.T.M. E96 Procedure A

#### *Type*

Duct Rated



## Encapsulated Flexible Ducting

### **Fab 97** (Non-Insulated)

Material: Metalized PET film

Maximum Rated Velocity:

20.3 m/s (4000 fpm)

Maximum Positive Pressure:

1.5 kPa (6 in. WC)

Maximum Negative Pressure:

0.13 kPa (0.5 in. WC)

Temperature Range: -20°F to +250°F

Bend Radius: 1 x diameter

Available Sizes: 3" to 16"

Standard Lengths: 25ft

### **Fab 97T** (Insulated)



## Encapsulated Fabriflex™ Ducting

### **Fab 99** (Non-Insulated)

Maximum Rated Velocity:

20.3 m/s (4000 fpm)

Maximum Positive Pressure:

1.5 kPa (6 in. WC)

Maximum Negative Pressure:

0.13 kPa (0.5 in. WC)

Temperature Range: -20°F to +250°F

Bend Radius: 1 x diameter

Available Sizes: 3" to 16"

Standard Lengths: 25ft

### **Fab 99T** (Insulated)

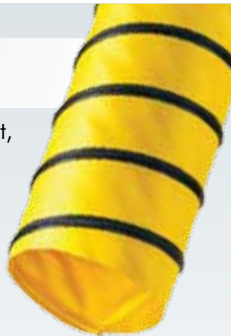




## Industrial Ducting

### Vinyl Blower Duct

Fabric reinforced vinyl coated blower duct, ideal for fresh air supply. Manufactured with a molecularly bonded wearstrip for scuff resistance. An economical duct for large volume air transfer. This duct is reinforced with a spring steel helix and covered with a urethane wearstrip.



Material: Polyester single fabric coated with vinyl  
Diameters: 6" to 24" I.D. Larger sizes available  
Bend Radius = 12" diam. = 7"  
Weight: 6" I.D. = .7 lbs/ft  
Length 25ft  
Compression Ratio: 10:1  
Temperature Range: -20°F to +180°F

Unless otherwise designated, the term "flexible air duct" is used for all ducts classified by UL as either flexible air ducts or flexible air connectors.

These provisions apply to ducts used for indoor comfort heating, ventilating, and air conditioning service. They do not apply to service for conveying particulates, corrosive fumes and vapours, high temperature air or contaminated atmosphere. Project specifications must define specific materials, pressure limits, velocity limits, friction rate, thermal conductivity, acoustical ratings, and other pertinent or relevant attributes.

## Industrial Ducting

### U-Lok 440HR

Medium gauge silicone coated fiberglass duct. Single-ply economical silicone/fiberglass duct designed for vehicular exhaust extraction and high temperature air transfer. Ultra flexible mechanical lock construction provides superior tear and tensile strength and eliminates wire movements found in traditional single-ply duct. Air tight construction. Uniform flexibility and compressibility reduces exhaust turbulence and pressure loss. High temperature air supply and removal. Garage fume control. Combustion by-products. For use with hose reels.

Material: Med. gauge silicone coated fiberglass  
Construction: Mechanical lock, external steel scuff guard  
Diameters: 2" to 12"  
Weight: 6" I.D. = 1.1lbs/ft  
Length: 25ft  
Compression Ratio: 5:1  
Temperature range: -60°F to +500°F  
Colour: Orange/red with black external scuff guard

### Flame Retardant TPR

This flame retardant welding fume extraction duct and cable cover is designed specifically for welding environments including sparks and slag.

Material: Flame retardant thermoplastic rubber  
Diameters: 2" to 12"  
Weight: 6" = .77 lbs/ft  
Lengths: 25 ft & 50 ft to 8" diam., 25' - 10" and up  
Compression Ratio: 2:1  
Temperature range: -40°F to +275°F, continuous, +300°F (intermittent)

### Static Dissipating (Urethane)

Manufactured using inherently dissipating urethane with wire helix to allow for safe grounding when used with metallic fittings. This results in permanent protection against electrostatic discharge. The special molecular bonded construction generates less turbulence. Lightweight and extremely flexible, it will perform under the toughest conditions. Excellent flexibility and maximum abrasion resistance. Superior tear resistance and high tensile strength. Clear construction for visual monitoring.

Temperature range: -65°F to 200°F  
Lengths: 25 & 50 ft  
Sizes: 2" to 12"  
(larger diameters available, please contact the factory)  
Compression ratio: 2:1





Flexmaster conical spin collars average 36% less static pressure (SP) drop and 45% less total pressure (TP) drop than conventional fish-lock collars.

### **Straight Spin-On Collars (1801 & 1802)**

Assembly comes complete with quality regulator and retractable spring bearing hardware. Available in diameters ranging from 4" to 12"; with or without damper. Save approximately 43% on installation time over conventional fish-lock collars.



### **Long Body Spin-On Collars (1803 & 1804)**

Diameters range from 6" to 20"; with or without damper. 24 gauge construction. Complete with quality regulator and retractable spring bearing hardware. Extra long body allows damper blade to be less obtrusive in linear air stream. 1804 s/o comes with identical 1802 hardware. Designed for use with spiral duct.



### **Conical Spin-In Collars (1701 & 1702)**

Conicals average 36% less Static Pressure (SP) drop and 45% less Total Pressure (TP) drop than conventional spin-on collars. Superior quality and design. Diameters range from 4" to 16"; with or without damper.



### **Spin-On Collars c/w Stand-off Regulator (1806)**

Complete with 8" body, 1/4" square rod, locking quadrant, heavy duty handle, 1" standoff regulator; with or without damper; in diameters ranging from 6" to 20". Blades are specially designed for optimum linear balancing. Recommended for insulated ductwork.

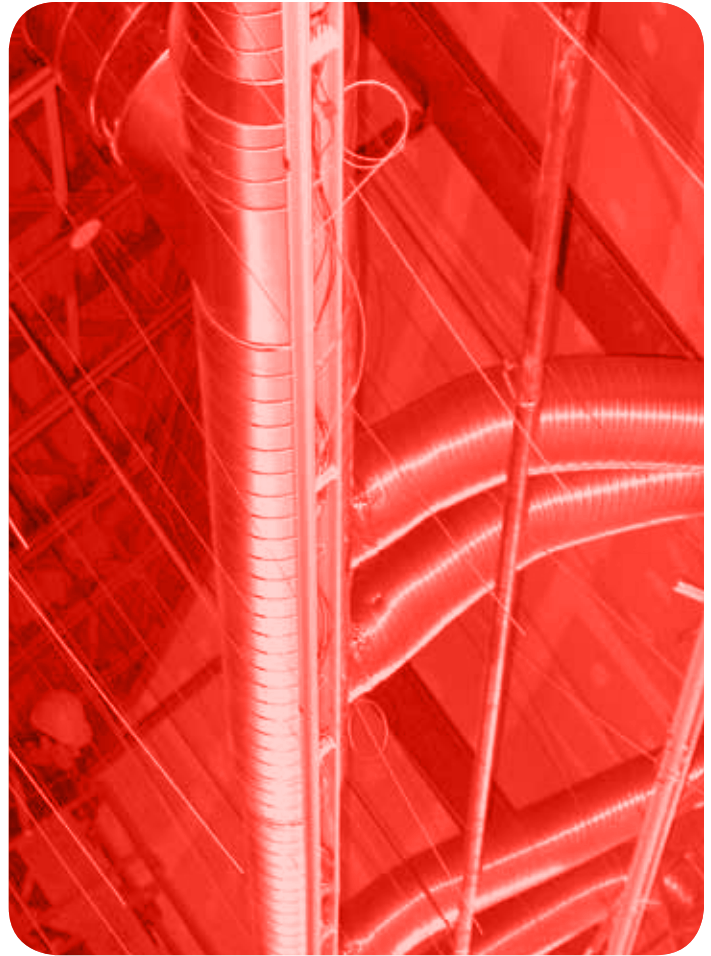




For quality job, use our water-based, mold and mildew resistant, low VOC emitting, UV resistant, High-Velocity Ductbond Duct Sealant.

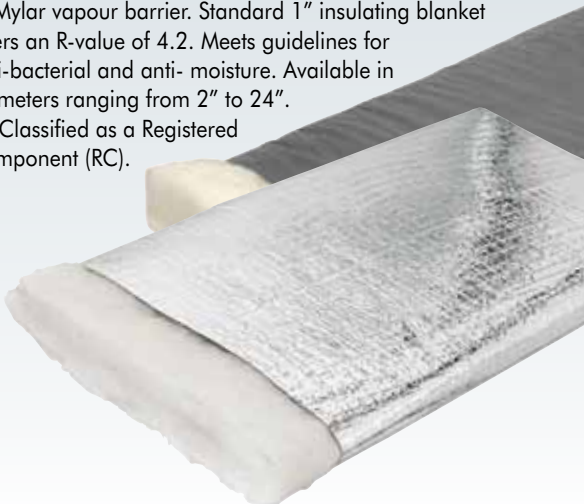
## Duct Sealant

Ductbond is a high velocity duct sealant, tested to ASTM G-21, with a Rating = 0 (no fungal growth on surface). This UL Listed duct sealant is tested to ASTM E84 and meets NFPA 90A and 90B 25/50 requirements. UV Rated, Fire Resistant, water based, non toxic, VOC Rated and inhibits mold and mildew growth.



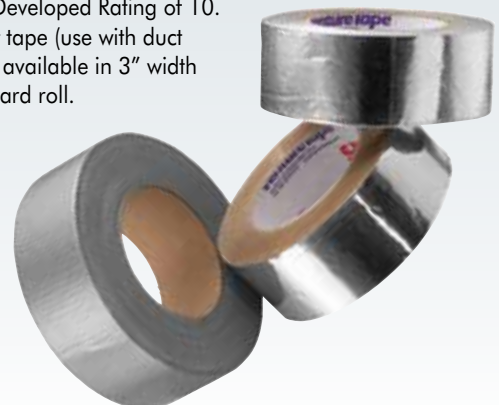
## Insulation Sleeves

Factory assembled fiberglass inner lining with polyethylene or Mylar vapour barrier. Standard 1" insulating blanket offers an R-value of 4.2. Meets guidelines for anti-bacterial and anti-moisture. Available in diameters ranging from 2" to 24". UL Classified as a Registered Component (RC).



## Duct Tape

Grey vinyl-coated fabric pressure sensitive tapes are available in 2" widths and 60 yard rolls. Aluminum foil pressure-sensitive tapes are available in 2" widths and 50 yard rolls. Foil tapes are UL Classified with a Flame Spread Rating of 5 and a Smoke Developed Rating of 10. Scrim duct tape (use with duct sealant) is available in 3" width and 100 yard roll.





Flexmaster offers quality sheet metal products with distinct advantages and excellent value intended to improve system performance or enhance overall aesthetics. Our products are manufactured in a wide range of diameters, gauges and metal alloys suitable for any HVAC application.

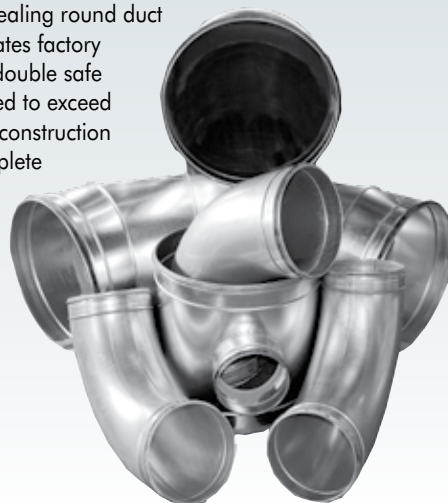
### Spiral Duct

Unique lock-formed seam and consistent calibrated tolerances combine to produce a superior quality product in a wide range of gauges to SMACNA Standards. Spiral duct is available in Galvanized, Satin Coat, Aluminum, 304/316 Stainless Steel, in diameters ranging from 3" to 72". Standard length - 10ft. Also available in double wall, insulated.



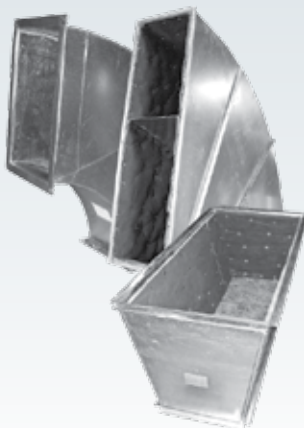
### Platinum Flow™

Innovative self-sealing round duct system incorporates factory installed EPDM double safe gaskets. Designed to exceed SMACNA's duct construction standards. Complete system available in single wall, double wall insulated as well as custom design capabilities.



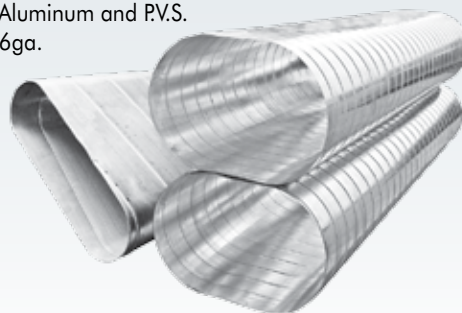
### Rectangular Duct & Fittings

Rectangular ductwork is manufactured from an Automated Duct Line in 5' or 4' lengths. Duct and fittings are constructed to SMACNA duct standards for high, medium, low and negative pressure classes. Ductwork is available in T.D.F., S and Drive and Raw connections along with a variety of material options which include Galvanized, Satin Coat, Stainless Steel, Aluminum and P.V.S. from 26ga to 16ga. Also available in double wall insulated.



### Flat Oval Duct & Fittings

Flat Oval ductwork is manufactured from a mechanically locked spiral seam that is evenly spaced for those tight places. Duct and fittings are constructed to SMACNA duct standards for high, medium, low and negative pressure classes. Flat Oval is available in slip fit or flange connections along with a variety of material options which include Galvanized, Satin Coat, Stainless Steel, Aluminum and P.V.S. from 24ga to 16ga. Also available in double wall insulated.



Consider registers and in-line silencers if you need to eliminate unwanted fan or duct vibration noise. Flexmaster can supply the Sound Attenuation and Insertion Loss data to assist you in the selection process. Reduce broadband or tonal noise by lowering dB levels and decreasing the overall NC Rating.

### P.V.S. Under-slab/Corrosive Environment Duct

P.V.S. is an engineered Duct system for use as an under-slab duct or in corrosive environments such as natatoriums. P.V.S. is a G90 galvanized sheet bonded on both sides with 4 mil. Polyvinyl Chloride. P.V.S. duct will not rust, chip, crack, peel, corrode, or off gas. Service temperature -40 F to 350F. P.V.S. is non-flammable and UL listed as a Class 1 air duct. Full duct systems are provided in both rectangular and round configurations.



### LEED Smart Spiral Elbows

Feature full radius, 4" to 18" diameters, galvanized construction with a mechanical 4-ply lock seam construction. Spiral elbows have a low flow resistance and meet SMACNA gauge requirements. Visual continuity with spiral pipe is maintained. LEED smart spiral elbows have greater structural integrity, are cost effective and require no field applied sealant. Manufactured with recyclable material and minimal energy used during fabrication. They are VOC free and have an indefinite service life.



### Silencers

Strategically locate these in-line silencers to eliminate noise problems. All silencers come with double-lipped EPDM self-sealing gaskets for easy system integration. Available in diameters from 3" to 50", lengths from 1 ft. to 8 ft., insulation thicknesses from 2" to 6". Insertion loss data and pressure drop information available on request.



### Registers

Supply or return RGS-3 register with adjustable double deflection blade and volume damper mount directly onto spiral duct. Eliminates unsightly rectangular register taps. No leakage; manufactured from heavy gauge galvanized steel; available in 21 sizes. Performance data available on request. Drum Louvers also available.







## Multi-Cut Hole Cutter

The Multi-Cut Hole Cutter is ideal for cutting large quantities of identical holes ideal for spin-on cut-ins. It can cut perfect holes from 2" to 12" diameter through a wide range of gauges. It comes with a solid cast aluminum body, adjustable nut & pivot pin, and easy to read scale. Replaceable three fluted cutting bits are available.



## Gripple®

Suspend any static load with these quick and versatile cable hangers. Reduces installation time by up to 6 times over conventional threaded rod and hanger strap. UL and CSA Listed, SMACNA Verified and Seismic Tested. Available in five load rated sizes and 5 ft to 30 ft lengths.



## Gear Clamps

Constant tension clamps come with a 5/16" hex slotted head and 1/2" wide stainless steel band. Fully adjustable and ideal for making flexible duct connections in diameters ranging from 2" to 24". Offer maximum strength and anti-shear protection. Not recommended for underground applications.



## Bridge Clamps

Stainless steel bridge clamps, in comparison to traditional band clamps provide a superior seal for both interior and exterior helix ducting. The flat band clamps snugly around the material between the raised helix, assuring a tight seal at the venting connection.



## Nylon Tensioning Clamps

Complete with 8" body, 1/4" square rod, locking quadrant, heavy duty handle, 1" standoff regulator; with or without damper; in diameters ranging from 6" to 20". Blades are specially designed for optimum linear balancing. Recommended for insulated ductwork.



### U.S.A.

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