

## **Industrial Strength Dust & Fume Collection**

### **✓ Unsurpassed Customer Care**

- Trust our **knowledgeable team members** at every step.
- Ensure your project meets specifications **the first time!**

### **✓ Helping Customers Breathe Easier**

- In-stock items **ship in 24 hours.**
- **Quality** industrial ventilation components, fully welded, air tight.
- Non-stock manufacturing **in 3-5 days.**

### **✓ Lifetime Client Relationships**

- Our **family owned business** has been a leading source of industrial strength duct work for over **70 years!**



Dust Collection Systems

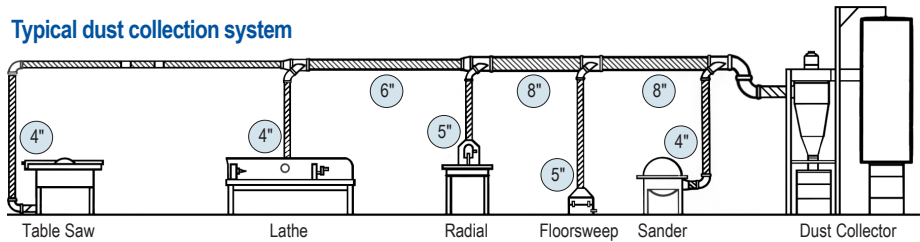
Dust collection systems can be complicated, here are a few simple steps to an effective and efficient dust collection system. We have simplified the dust collection system for smaller shops, it is important to know federal, state and localities have codes and regulations enforced by AHJ (Authorities Having Jurisdiction) governing sales, construction, installation and or use of dust collection systems. There are five simple steps to an effective and efficient dust collection system:

- 1. Draw a floor plan of your shop
- 2. Determine Duct Velocity (FPM)
- 3. Determine Diameter and CFM of each Branch
- 4. Determine Diameter and CFM of Main Duct
- 5. Figure System Resistance (SP - Static Pressure)

Definitions

- CFM - Air Volume in Cubic Feet per Minute.
- FPM - Velocity of Air in Feet per Minute.
- SP - Static Pressure. This is expressed in inches water gauge. It is resistance to air at rest in a duct, and is also commonly called "resistance," friction," "friction loss" or "pressure loss".
- VP - Velocity Pressure: expressed in inches water gauge. It is kinetic pressure in the direction of flow necessary to cause air at rest to flow at a given velocity.

Typical dust collection system



We ALWAYS recommend you do these calculations BEFORE you purchase your dust collector or ductwork. To properly size your dust collector, you NEED to know your CFM requirements and at what Static Pressure your system will be operating. Use the CFM and Static Pressure to compare the performance of your dust collector. The dust collector performance ratings should show that at your given Static Pressure, the CFM it will provide.

- 1. Draw a floor plan of your shop area including the following: (see example, page 5)
    - Location of dust producing machines, indicate size and location of dust pick-ups on each machine. Remember machines with the biggest draw (highest CFM) should be placed nearest to the dust collector.
    - Desired location of dust collector unit.
    - Floor to joist measurement.
    - Any obstructions that would interfere with the run of the duct.
  - 2. Determine Duct Velocity (FPM)
- Use the chart below to determine the Velocity of your system.

Type of Dust	Velocity in Branches	Velocity in Main
Metalworking Dust	4500 FPM	4000 FPM
Woodworking Dust	4000 FPM	3500 FPM
Other Light Dust	4000 FPM	3500 FPM

Air Handling Systems by Manufacturers Service Co., Inc. cannot guarantee compliance, and cannot be responsible for how the Product is installed or used. Before purchase and use of a Product, please review the Product application, national, state & local codes, regulations, and be sure that the Product, dust collection design, installation, and use will be in compliance.

## 3. Determine Diameter and CFM of each Branch

There are several ways to determine the diameter of the branches.

- If the machine has a factory installed collar, the manufacturer has determined that the machine needs that size branch under normal circumstances.
- If the machine has a metric diameter outlet, convert it into inches, and round off to the nearest inch. When writing up your parts list you may need to order a custom reducer.
- If the outlet is rectangular you need to determine the equivalent round diameter. This will require a Transition, see page 18.
- If the branch is smaller than 3" dia., requirement is high velocity vacuum, not volume dust collection, it is recommended to use a shop vacuum.

Chart 1			
CFM requirements at specified velocity.			
Dia.	3500 FPM	4000 FPM	4500 FPM
3"	170	195	220
4"	300	350	390
5"	475	550	610
6"	700	785	880
7"	950	1100	1200
8"	1200	1400	1570
9"	1550	1800	1990
10"	1900	2200	2450
12"	2800	3175	3600
14"	3800	4300	4800

Determine CFM requirement for each branch, use Chart 1. Under the proper velocity note the CFM of each branch. If working with wood dust, use 4000 FPM in branches.

## 4. Determine Diameter and CFM of Main Duct

Determine which machines are your primary machines. A primary machine is the machine(s) that will operate at the same time under the worst conditions. (If you normally operate two machines, but once a week need to operate a third machine at the same time, then you must size your system for all three machines.) We generally highlight the primary machines on the drawing.

Sizing the Main Trunk Line. When sizing the Main trunk line start with the primary machine farthest from the dust collector. Run that size duct until the next primary branch enters the Main. Increase the Main size at that junction to accommodate the CFM total of the two primaries. You will follow this practice all the way to the collector, sizing all primary junctions to accommodate total CFM of all primaries at that point. Do not increase Main duct size when a branch other than a primary enters. Your total CFM requirement is the total of all primary branches. When not using a primary machine you will close blast gate and divert suction to a secondary machine.

EXAMPLE - A 4" branch will be run from the Table Saw until it joins with the 4" branch from the Lathe. At this point your main starts and you need to increase the pipe to handle the combined CFM ( $350+350 = 700$ ). Using the CFM Chart 1 look up 700 CFM under the appropriate velocity (3500 FPM in the Main for wood dust), then look at the corresponding diameter (6"). Run 6" pipe in the Main from the Shaper until the branch of the Radial Saw joins the Main.

Here again you need to increase your Main to handle the total CFM ( $700+550=1250$  CFM). Using Chart 1 you will see that 1250 CFM is slightly more than volume for 8" diameter. Drop back to 8" diameter so as not to go below transport velocity. Run the 8" duct in your main from the Radial Saw to your Dust Collector.

## 5. Figure System Resistance (Static Pressure)

Static pressure is resistance to flow caused by friction and the channeling of airflow through a round pipe. If you turn on a dust collector with out anything attached to it - pipe, flex or filter bags, it will pull max volume at free air without any resistance. Attach filter bags and 10' of pipe to the inlet and you have added resistance. Add 20' more of pipe and so on - you increase resistance as you add more pipe and fittings.

It is the dust collector's job to overcome the ductwork resistance and pull the proper amount of CFM when you open a branch or branches in a central dust collection system. When you drink a soda with a regular straw it does not take much effort. If you have seen kids trying to drink a soda with those curly straws, they strain trying to get the soda to flow. They are trying to overcome the resistance of the long run.

You can run as much duct work in a system as long as the resistance has been compensated for and the

(Continued on next page)

# Helpful Information

CFM is delivered as required. "Inches of water" on a scale is used to measure the resistance in a duct system. It can be equated to the resistance to lift water by inches in a tube.

The total static pressure is several factors added together. They are entry loss, dirty filter loss, static pressure of the worst branch duct, static pressure of main duct, and static pressure of the return duct.

1. There are more complicated ways to figure the entry loss of your system, but we find it usually equals a loss of 1" water gauge. (Use 1" as a constant).
2. If your system has filters, add in a 2" loss. (If you do not have filters add zero).
3. The Worst Branch, is the branch with the greatest resistance. The branch with the greatest resistance is usually a smaller diameter with the most lineal footage of pipe and elbows. Static pressure of worst branch and main duct can be calculated by using Chart 2. Chart 2 is based on 100 feet of pipe; therefore, you have to convert all elbows to an equivalent of pipe.

To convert 90° and 45° elbows to equivalent feet of pipe use Chart 2.

When figuring the feet of pipe count lateral type branches as 45° elbows.

Chart 2					
Static Pressure based on 100' of Pipe.				Elbow to Straight Pipe Conversion	
Dia.	3500 FPM	4000 FPM	4500 FPM	90° Elbow 1.5 Dia. Rad.	45° Elbow 1.5 Dia. Rad.
3"	7.5	10.0	12.0	5'	2.5'
4"	5.5	7.0	8.5	6'	3.0'
5"	4.2	5.5	6.5	9'	4.5'
6"	3.5	4.5	5.5	12'	6.0'
7"	2.8	3.8	4.5	13'	6.5'
8"	2.4	3.2	3.8	15'	7.5'
9"	2.0	2.8	3.4	17.5'	8.75'
10"	1.8	2.4	3.0	20'	10.0'
12"	1.5	2.0	2.5	25'	12.5'
14"	1.3	1.6	2.0	30'	15.0'

Flexible hose has a lot of resistance depending on the corrugation. For this reason we suggest you keep hose to a minimum. Multiply your length of flexible hose on your worst branch by 3 for equivalent length of straight pipe.

If you are installing an indoor recirculating dust collector you need not calculate any more duct diameters. If you are attaching ductwork to the exhaust side of your dust collector it is accepted practice to use a duct diameter two inches larger on the exhaust side than on the inlet side, thus minimizing exhaust and duct resistance. If clean air return duct is required, duct resistance should also be calculated.

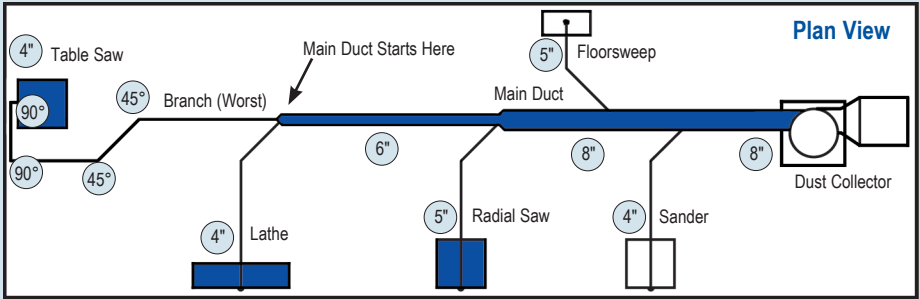
Now you have all the information you need to make an educated decision in purchasing your dust collector. You have determined the Velocity, CFM, Static Pressure and the size of the ductwork. To develop your list of materials required, go through the system; this time starting at the dust collector and list each part you will need. Don't forget pop rivets, hangers, strapping, caulking, and couplings. If you have any questions while you are designing your system give us a call at 800-367-3828.

Important TIPS to Remember

- Machines with the biggest draw (highest CFM) should be placed nearest to the dust collector.
- The shorter the run the better, less resistance to air flow.
- The final duct run entry into the dust collector should be straight pipe and not an elbow or branch fitting. Minimum of 3 times diameter of straight pipe, for example 8" diameter x 3 = 24" straight pipe.
- If clean air return is utilized from the dust collector, the outlet diameter should be a minimum 2" larger than the inlet to minimize resistance, slow down the air flow, and decrease the noise level.
- One hanger is required for every 10ft of main duct, and at least one on each 10ft branch or less.
- The less flexible hose used the better; flexible hose has approx. 3 times the resistance of air flow than straight pipe.
- Lateral tees off the main trunk line should be horizontal, with elbows attached to drop vertically. This will prevent dust flowing through the main duct from falling into a lateral tee positioned vertically.

Air Handling Systems by Manufacturers Service Co., Inc. cannot guarantee compliance, and cannot be responsible for how the Product is installed or used. Before purchase and use of a Product, please review the Product application, national, state & local codes, regulations, and be sure that the Product, dust collection design, installation, and use will be in compliance.

## 1. Draw a floor plan of your shop



## 2. Determine Duct Velocity (FPM)

Wood Dust 4000 FPM in Branch and 3500 FPM Main

## 3. Determine Diameter and CFM of each Branch and Main Duct

You have 3 primary machines. You have assigned the branch diameter and CFM requirements.

Table Saw	4" Diameter	350 CFM
Lathe	4" Diameter	350 CFM
Radial Saw	5" Diameter	550 CFM

## 4. Determine Diameter and CFM of Main Duct

Total CFM of two 4" branches and one 5" branch pulling vacuum simultaneously = 1,250 CFM

## 5. Figure System Resistance (SP - Static Pressure)

Determine Static Pressure (Inches of Water Gauge) in Worst Branch - 4" Table Saw.

Description - 4" Diameter	Equivalent to Straight Pipe
Straight Pipe	20'
2 - 90° Elbows	12'
2 - 45° Elbows	6'
5' Flexhose (3x)	15'
Total equivalent straight pipe after conversions	53'
350 CFM in 4" diameter = 7" S.P. per 100'	
350 CFM in 4" diameter = <u>3.71" S.P. per 53'</u>	

**Static Pressure in MAIN DUCT 6" and 8"** The static pressure of the Main Duct is done the same way, except you figure it out for each diameter in the Main, starting farthest away and working toward the collector.

Description - 6" Diameter	Equivalent to Straight Pipe
Straight Pipe	20'
Total equivalent straight pipe after conversions	20'
700 CFM in 6" diameter = 3.5" S.P. per 100'	
700 CFM in 6" diameter = <u>.70" S.P. per 20'</u>	
Description - 8" Diameter	Equivalent to Straight Pipe
Straight Pipe	25'
2 - 90° Elbows	30'
Total equivalent straight pipe after conversions	55'
1,250 CFM in 8" diameter = 2.4" S.P. per 100'	
1,250 CFM in 8" diameter = <u>1.3" S.P. per 55'</u>	
(8" Diameter runs to self contained Dust Collector)	

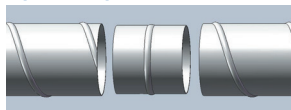
**Total Static Pressure** 1" (Entry Loss) + 2" (Filters) + 3.71" (Worst Branch) + .70" (6" Main) + 1.3" (8" Main) = 8.71" SP Inches Water Gauge.

**System Requirement: 1,250 CFM at 8.71" SPWG**

## Installation Information

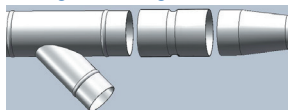
### Installation of Spiral Pipe and Fittings

#### Pipe-To-Pipe Connection



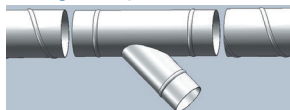
Spiral pipe is connected by a small end (Male) coupling (Part No. COUP) which slipped into the pipe sections.

#### Fitting-To-Fitting Connection



Fitting-to-Fitting connections can be made using a large end (Female) coupling (Part No. COU2).

#### Fitting-To-Pipe Connection



All fittings are sized (Male) to slip into mating (Female) pipe sections or flexhose. No additional coupling will be needed.

### Securing and Sealing the Connection

It is important to note that you must seal all field joints airtight. We recommend clear silicone caulking in tube form. Apply the silicone one-inch inside each large end completely around the circumference. Never use duct tape as it will dry rot over a short period of time and will open up leaks. Work the fitting into the pipe until the pipe is up to the bead on the fitting. Then drill rivet holes using # 30 drill bit through both layers of duct. Put a safe number of 1/8 diameter by 3/8 long steel pop rivets with steel pins around the circumference of each assembly. It is best to leave the bottom free from rivets between four o'clock to eight o'clock if possible. After the system is completely installed apply a coating of silicone over the outside of each joint, smooth out with a glove and let cure.

Never install sheet metal screws as fasteners, as they will catch pieces of wood and eventually clog the system. The velocity of air along with wood dust will wear the screw out over a period of time. This will cause the screws to fall out, and the pipe could possibly fall down if not supported sufficiently.

### Friction Loss and Air Leakage

Two problems with high velocity systems are friction loss and air leakage. The installer has to install the high-pressure system without causing possible friction losses or air leakage problems. Do not crimp the ends of the fittings to make assembly easier. The crimping puts interference in the air stream, which adds friction loss to the system. Crimping can also create noise problems. Excessive clearances in sizing of the pipe and fittings can cause problems in sealing the system to make it airtight. Hunting and patching leaks in an installed system is tedious and stressful.

Your duct and fittings are sized to fit tightly for THREE good reasons.

1. The joint has a minimum friction loss condition.
2. The tight fit makes the joint easy to seal against air leakage.
3. Noise is reduced with a tighter joint.

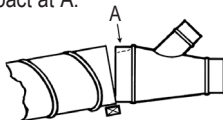
### Connection of duct and fitting

Starting the fitting into the duct.



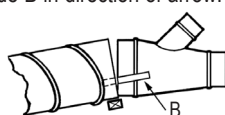
A sharp blow by a sheet metal hammer or mallet on the top of the fitting collar can cause the collar to seat into the duct. But, be careful not to dent the collar.

Starting the collar into duct, impact at A.



When a sub-assembly is put together on the floor, raise the end of the duct to support it off the floor by a piece of wood. Tilt the fitting slightly and start the bottom part of the fitting collar into the duct.

Starting the collar into duct, drive blade B in direction of arrow.



A strip of metal slipped into the space between the duct and fitting can be driven around the joint circumference. The fitting is worked to keep the collar in, but do not push too hard to bind the end of the duct and fitting so the fitting can't slip into the duct.



## Ordering

- **Phone** - 203.389.9595 or 800.367.3828
- **Online** - Visit us at [www.airhand.com](http://www.airhand.com) for secure ordering, 24 Hours a Day - 7 Days a Week.
- **Location** - Air Handling Systems by Manufacturers Service Co., Inc., 5 Lunar Drive, Woodbridge, CT 06525-2320

## International Services, Shipping Outside Continental United States

- We ship worldwide. All Prices in US \$ Dollars. Product prices and delivery charges may vary when shipping to another country or outside the continental United States. Recipients responsible for paying duty, fees and taxes. Contact us for product prices, shipping fees and estimated delivery times.

## Shipping

- Working with UPS, Fed Ex Ground, United States Postal Service, and many local, regional and national trucking companies our knowledgeable shipping department will ensure your shipment goes by the most efficient and economical way possible.
- We pride ourselves on our ability to ship your order in a timely manner, however we will not incur any liability for delays in processing and/or shipping your order.
- Accuracy is very important to all of us, however we realize mistakes do occur, please notify us immediately with any errors or omissions. We will not accept claims on errors or omissions after two (2) days from date of delivery.

## Packaging/Crates

- Standard shipments of fittings, hoses, accessories and 5-foot lengths of pipe normally will ship via UPS or FedEx Ground in cardboard boxes specially designed to maximize length, width and girth. Larger shipments may require special packaging to protect your shipment. We offer containers which are available for an additional cost which will be discussed upon placing your order.

## Customer Pick-Ups

- You are welcome to pick up your order between 8:00 AM - 5:00 PM Monday - Thursday; 8:00 AM - 3:30 PM Friday. We are located at 5 Lunar Drive, Woodbridge, CT. It is recommended to call/email your order in ahead of time.

## Special Requests/Rush Orders

- Rush Orders can be shipped collect Next, Second Day, or Air Freight, Customer UPS or Fed Ex Ground Account required. Requests to produce items as fast as possible may incur additional costs that will be discussed at time of order to eliminate any misunderstanding.

## Payment

- **Credit Cards** - We gladly accept American Express, VISA, Master Card & Discover.
- **Payment by Check** - Make checks payable to: MANUFACTURERS SERVICE CO., INC.
- **Established Credit** - For customers with established credit, payment terms are net 30 days from the date of invoice. If payment is not received within the 30-day period, we may defer or cancel all or part of any shipment or order.
- **Connecticut Sales Tax** - All orders picked up at our facility or shipped within the State of Connecticut are subject to Connecticut State Sales Tax regardless of destination, unless we have a properly filled out "Sales & Use Tax Resale Certificate" for the State of Connecticut.
- **Sales & Use Tax** - Purchaser agrees to pay any Sales or Use Tax.
- **Out-of-State Sales** - Title to shipment transfers at destination.

## Returns (NO RETURN POLICY)

- **Air Handling Systems has a long established NO RETURN POLICY, based in part on Cross Contamination Dangers. Therefore, we do not accept for return, any material that has left our facility. We have a long established NO RETURN POLICY for ALL Custom Fabrications. Custom items are made to your specifications, they are not returnable for any reason. Orders cannot be cancelled or changed once production has begun.**

## Terms & Conditions

- By placing an order and not stating otherwise, buyer has read and agreed to all Terms & Conditions set forth by Air Handling Systems by Manufacturers Service Co., Inc.
- All prices in US \$ Dollars. We make every effort to maintain our pricing, however, due to market fluctuations, prices are subject to change without prior notice.

# Terms and Conditions

## 1. [NATURE OF THIS DOCUMENT](#)

We hereby acknowledge receipt of your order of the Products shown on the reverse side hereof. All sales by us are made on the terms herein set forth. The terms of your order if on an instrument other than this are hereby rejected and we hereby offer to sell said Products to you upon the terms set forth. Your acceptance of this offer must be made on its exact terms and we OBJECT TO THE INCLUSION OF ANY DIFFERENT OR ADDITIONAL TERMS OR THE DELETION OR OMISSION OF ANY TERMS HEREOF proposed by you in any Acceptance hereof and if any are included or deleted in your Acceptance, a contract for sale will nonetheless result on our terms and conditions stated herein without the necessity of our rejecting such different or additional terms or deletions or omissions. Upon acceptance by us at our office in Woodbridge, Connecticut and by you, the terms of this instrument shall constitute the entire Agreement between us. No oral representation shall be effective whether or not made by you or our employees and no later document shall vary the terms hereof unless by specific reference hereto and signed by both of us, at our office in Woodbridge, Connecticut. If you fail to sign and return this instrument and we nonetheless deliver, such acceptance of delivery shall constitute acceptance of our offer contained herein on the terms herein set forth. We reserve the right to substitute an equivalent Product(s) of equal or greater value for the Product(s) ordered by you at our discretion.

ALL SALES ARE FINAL UPON ACCEPTANCE BY US. NO SALES ARE ON CONSIGNMENT OR APPROVAL.

## 2. [ACCEPTANCE](#)

Your acceptance of the terms and conditions herein must be accompanied by sufficient information plus a specification to enable us to proceed with the order forthwith. Otherwise we are to be at liberty to amend our prices to cover any increases in costs that may take place after acceptance and/or which may become apparent after such information and/or specification is furnished by you.

## 3. [SECURITY AGREEMENT](#)

This document when signed by you and accepted by us is a Security Agreement under the Uniform Commercial Code ("Code") and we retain and you grant to us a Purchase Money Security Interest in the Products as security for payment of the purchase price hereunder and upon your default we shall have the rights and remedies of a Secured Party under the Code. You will, at our request, sign and deliver Code filing documents and you irrevocably authorize us to sign such documents on your behalf. The foregoing is without prejudice to our rights under Article 2 and/or Article 9 of the Code.

## 4. [LIMITS OF CONTRACT](#)

Our Agreement includes only such Products as are specified herein. Many states and localities have codes and regulations governing sales, construction, installation and or use of Products for certain purposes, which may vary from those in neighboring areas. While Air Handling Systems by Manufacturers Service Co., Inc. attempts to assure that its Products comply with such codes, it cannot guarantee compliance, and cannot be responsible for how the Product is installed or used. Before purchase and use of a Product, please review the Product application, national & local codes, regulations, and be sure that the Product, installation, and use will be in compliance.

## 5. [WARRANTY TO BUYER](#)

THE PRODUCTS HAVE BEEN PURCHASED BY YOU "AS IS" AND YOU ACKNOWLEDGE THAT WE HAVE GIVEN YOU NO WARRANTY OF ANY KIND INCLUDING BUT NOT LIMITED TO ANY EXPRESS OR IMPLIED WARRANTIES, WARRANTIES REGARDING DESCRIPTION AND/OR QUALITY AND INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS, PRODUCTIVENESS, OR ANY OTHER MATTER REGARDING ANY PRODUCTS WHICH WE SHALL SUPPLY. WE SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF AND SERVICE OF OUR PRODUCTS AND YOU HEREBY WAIVE ALL RIGHTS OF REFUSAL AND RETURN OF GOODS.

IN ALL EVENTS WE SHALL NOT BE LIABLE FOR ANY INCIDENTAL AND/OR CONSEQUENTIAL DAMAGE.

## 6. [CLAIMS](#)

On arrival the Products should be carefully and thoroughly inspected for any sign of damage or shortage and should be noted on the Freight Bill before signing the receipt. If the Product cannot be inspected properly, we recommend that you sign the Freight Bill marked "SUBJECT TO INSPECTION." It is your responsibility to report immediately to the carrier any package or crate received in a damaged condition and to request an inspection report. If you notice any damage after unpacking the shipment, notify the transport company immediately and request an inspection. Damage claims must be made with the carrier. All packaging material must be retained until the shipment is inspected by the carrier and your claim is settled. If you fail to notify the carrier within said time period, such Product shall be deemed conforming goods. If such a claim is sustained after inspection by us and Products furnished is proved not as ordered to our satisfaction, we shall have the option in such event of repairing or replacing the Products or crediting your account. Under no circumstances will we be liable for damages or for any claims for expense involved in using our Product. We will not allow claims for defective goods on those parts further processed by you and resulting in change of either dimensions or characteristics from your original blueprint or other specifications.

## 7. [DELIVERIES](#)

Every effort will be made to fill orders within the time promised but under no circumstances will we assume responsibility for any damage growing out of or owing to any delays whatever. Unless specifically stated to the contrary, orders are accepted for delivery as fast as manufactured by partial shipment in bulk. Any part of an order that is shipped within ten days from the date of receipt of your Order at our offices in Woodbridge, Connecticut, will be invoiced at our prices shown on the reverse side hereof. Any part of an Order that, for any reason, is not shipped within the thirty days following date of receipt of your Order at our said offices will be invoiced at our prices prevailing at the date of shipment.

## 8. [TERMS](#)

All shipments are subject to the terms on the reverse side hereof. Prices are exclusive of all city, state and federal excise taxes, including without limitation taxes on manufacture, sales, receipts, gross income, occupation, use and similar taxes. Wherever applicable, any tax or taxes will be added to the invoice as a separate charge to be paid by you and are subject to our terms of payment, net thirty days from date of invoice. You agree to pay costs of collection including reasonable attorney fees, if collection costs are incurred through your late payment. Upon your failure to make any payment for any of the Products promptly when due and/or your failure to make any payment due by you to us whether or not covered by or related to this instrument and/or your default with respect to any term of any agreement between you and us, we shall have the right to cause all of your obligations to us hereunder whether or not then due, payable and/or performable to become due, payable and/or performable on demand and you consent that we may at any time thereafter maintain an action for all sums payable by you to us together with costs of collection including a reasonable attorney's fee. Prices herein are net wholesale prices with trade discounts already deducted. Due to market fluctuations, prices are subject to change without prior notice.

## 9. [TAXES](#)

You agree to pay all applicable Federal, State, or local Manufacturer's or sales, use or value added taxes, or any other tax now or hereafter levied upon this instrument or upon any Products sold on any shipments made hereunder.

## 10. [CANCELLATIONS](#)

Orders accepted by us cannot be cancelled or changed except with our consent and upon terms that will indemnify us against loss. All cancellation charges to be determined at the time of cancellation.

## 11. [APPLICABLE LAW](#)

Any agreement arising hereunder shall be governed by Connecticut Law.

## 12. [TITLE](#)

Title to shipment transfers at destination.



## Spiral Pipe - 24 Gauge Galvanized

Our 24 gauge spiral pipe has a minimum of G60 thick protective coating of galvanized steel, perfect for all your small diameter needs. Available in easy to ship and install 5-foot lengths when you need small quantities. Also available in 10-foot lengths when you require large amounts for longer runs.

	5 ft	10 ft
Dia.	Part No.	Part No.
3"	03X5PI	03PIPE
4"	04X5PI	04PIPE
5"	05X5PI	05PIPE

## Spiral Pipe - Heavy 22 Gauge Galvanized

Our 22 gauge spiral pipe is commonly used for dust collection, fume collection and HVAC and has a minimum of a G60 thick protective coating of galvanized steel.

**Stronger than other pipe** - Make sure you have the right gauge for the right job. Do not be undersold, just to save money. Our spiral pipe is fabricated to industrial standards and is up to 20% stronger than smooth pipe systems of the same gauge, due to the added exterior spiral reinforcement. Available in easy to ship and install 5-foot lengths. Also available in 10-foot lengths when you require longer runs.

	5 ft	10 ft
Dia.	Part No.	Part No.
6"	06X5PI	06PIPE
7"	07X5PI	07PIPE
8"	08X5PI	08PIPE
9"	09X5PI	09PIPE
10"	10X5PI	10PIPE
11"	11X5PI	11PIPE
12"	12X5PI	12PIPE
13"	13X5PI	13PIPE
14"	14X5PI	14PIPE
15"	15X5PI	15PIPE
16"	16X5PI	16PIPE
18"	18X5PI	18PIPE
*20"	20X5PI	20PIPE
*22"	22X5PI	22PIPE
*24"	24X5PI	24PIPE

\*4 to 10 working days  
for fabrication.

**Current Pricing**  
**203-389-9595**  
**www.airhand.com**

## Spiral Pipe - 20 Gauge Galvanized

Our 20 gauge spiral pipe is used for various commercial and industrial applications. 20 gauge spiral pipe has a minimum of a G60 thick protective coating of galvanized steel. Available from 10"-36". 40 feet minimum required for cost effectiveness, otherwise additional setup fees will be incurred. Contact us for quote and lead time.

22 & 20 Ga. Spiral Pipe is sized large end (female) to slip over standard fittings sized small end (male). Pipe measures approx. 1/16" less than inch. i.e. 6" = approx. 5-15/16".



**Long Life** - No painting required, will last years outdoors.

## Spiral Pipe - 18 Gauge Galvanized

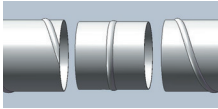
Our 18 gauge spiral pipe has a minimum of a G60 thick protective coating of galvanized steel, and is available for your heavy-duty industrial needs. Used for all larger systems requiring the ultimate in strength and abrasion resistance. Ideal where high vacuum is required in dust collection systems. Available from 14"-36". 40 feet minimum required for cost effectiveness, otherwise additional setup fees will be incurred. Contact us for quote and lead time.

Angle Rings, pre-punched, black iron, page 11, are required to secure connections between 18 gauge spiral pipe sections.

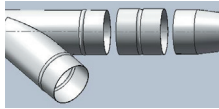


Couplings

20 Gauge - Stronger Than Most Competitors



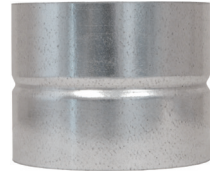
Small end (male) coupling for connecting pipe to pipe and flexible hose to pipe.



Large end (female) coupling or short piece of pipe for connecting fitting to fitting.



Small End (male) Coupling

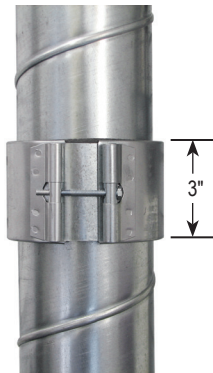


Large End (female) Coupling

Dia.	Small End male (O.D.)	Large End female (I.D.)
3"	03COUP	03COU2
4"	04COUP	04COU2
5"	05COUP	05COU2
6"	06COUP	06COU2
7"	07COUP	07COU2
8"	08COUP	08COU2
9"	09COUP	09COU2
10"	10COUP	10COU2
11"	11COUP	11COU2
12"	12COUP	12COU2
14"	14COUP	14COU2
15"	15COUP	15COU2
16"	16COUP	16COU2
18"	18COUP	18COU2

Easy Connect System

Easy Connect Sleeve (ECS) is easily assembled by simply tightening one bolt to complete the connection. ECS's are airtight with no protrusions into the airstream. They are ideal for dust collection systems, which require quick disassembly and reassembly of ductwork, or when a fast labor saving installation is important. Sleeves have polyethylene seal that has sufficient elasticity to accommodate the spiral duct seam. When the connector is tightened the galvanized metal sleeve contacts the duct wall to provide rigidity. 3" Width.



Dia.	Part No.
3"	03ECS
4"	04ECS
5"	05ECS
6"	06ECS
7"	07ECS
8"	08ECS
9"	09ECS
10"	10ECS
12"	12ECS
14"	14ECS

**Current Pricing**  
**203.389.9595**  
**www.airhand.com**

I/O Couplings

Inside/Outside Couplings have one Small-End which fits inside Spiral Pipe and one Large-End which fits outside Spiral Pipe. When using I/O Coupling, install in direction of air flow for a smoother inside surface. 20 gauge galvanized steel.



Dia.	Part No.
3"	03IO
4"	04IO
5"	05IO
6"	06IO
7"	07IO
8"	08IO
10"	10IO
12"	12IO

End Cap/Plug

End Cap/Plug is the perfect combination of an End Cap and an End Plug. It is designed to fit over fittings to cap off the end as well as fit into spiral pipe to cap off the end. Individual End Caps also available.



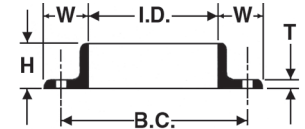
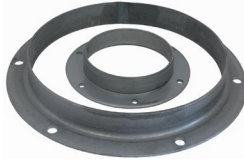
Dia.	Part No.
3"	03ECAP/PLUG
4"	04ECAP/PLUG
5"	05ECAP/PLUG
6"	06ECAP/PLUG
7"	07ECAP/PLUG
8"	08ECAP/PLUG
9"	09ECAP/PLUG
10"	10ECAP/PLUG
12"	12ECAP/PLUG
14"	14ECAP/PLUG
16"	16ECAP/PLUG

## Angle Rings - Pre-punched, Black Iron

Angle Rings create an obstruction-free interior with stronger and sturdier joints (welded hot rolled steel). Used in Spray Booth Stacking, Paper Trim Collection, Bulk Material Handling, and any system that requires easy disassembly or where 18 gauge Spiral Pipe is installed. Angle Rings exposed to weather will have to be painted in the field. When installing, slip Angle Ring over spiral pipe, weld, then bolt together. Stainless Angle Rings also available, call for details.



Angle Ring Connection

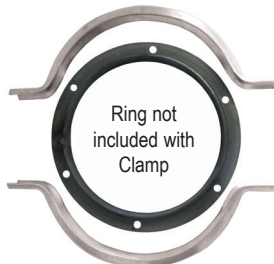


24"+ Rings ship by Common Carrier

Dia.	Height x Width Part No.	Inside x Thickness	Bolt Hole Dia. I.D.	No. of Centers	Size of Bolt Holes	Bolt Holes	Weight
3"	03RING	1" x 1" x 10 Ga.	3-1/8"	4-5/16"	6	9/32"	.67
4"	04RING	1" x 1" x 10 Ga.	4-1/8"	5-5/16"	6	9/32"	.88
5"	05RING	1" x 1" x 10 Ga.	5-1/8"	6-5/16"	6	9/32"	1.13
6"	06RING	1-1/4" x 1-1/4" x 1/8"	6-1/8"	7-5/16"	6	9/32"	1.75
7"	07RING	1-1/4" x 1-1/4" x 1/8"	7-1/8"	8-1/2"	6	3/8"	2.00
8"	08RING	1-1/4" x 1-1/4" x 1/8"	8-1/8"	9-9/16"	6	3/8"	2.25
9"	09RING	1-1/4" x 1-1/4" x 1/8"	9-1/8"	10-5/8"	6	7/16"	2.50
10"	10RING	1-1/4" x 1-1/4" x 1/8"	10-1/8"	11-13/16"	6	7/16"	2.75
12"	12RING	1-1/2" x 1-1/2" x 1/8"	12-1/8"	14"	8	7/16"	4.00
14"	14RING	1-1/2" x 1-1/2" x 1/8"	14-1/8"	16"	8	7/16"	4.75
16"	16RING	1-1/2" x 1-1/2" x 3/16"	16-1/8"	18"	8	7/16"	8.00
18"	18RING	1-1/2" x 1-1/2" x 3/16"	18-1/8"	20"	8	7/16"	8.50
20"	20RING	1-1/2" x 1-1/2" x 3/16"	20-1/8"	21-3/4"	12	7/16"	9.50
22"	22RING	1-1/2" x 1-1/2" x 3/16"	22-1/8"	23-3/4"	12	7/16"	10.75
24"	24RING	1-1/2" x 1-1/2" x 3/16"	24-1/8"	25-7/8"	12	7/16"	11.50
26"	26RING	2" x 2" x 3/16"	26-1/8"	28-3/8"	16	7/16"	16.50
28"	28RING	2" x 2" x 3/16"	28-1/8"	30-3/8"	16	7/16"	18.00
30"	30RING	2" x 2" x 3/16"	30-1/8"	32-3/8"	16	7/16"	19.50
32"	32RING	2" x 2" x 3/16"	32-1/8"	34-3/8"	16	7/16"	20.00
34"	34RING	2" x 2" x 3/16"	34-1/8"	36-3/8"	16	7/16"	22.00
36"	36RING	2" x 2" x 3/16"	36-1/8"	38-3/8"	16	7/16"	23.00
38"	38RING	2" x 2" x 3/16"	38-1/8"	40-3/8"	24	7/16"	24.50
40"	40RING	2" x 2" x 3/16"	40-1/8"	42-3/8"	24	7/16"	25.75
42"	42RING	2" x 2" x 3/16"	42-1/8"	44-3/8"	24	7/16"	26.50

## Quick Clamp for Angle Rings

SAVE TIME where removing of ductwork is required. Quick Clamp is easily removed by loosening two bolts. Not to be used with 14 gauge galvanized Angle Rings. Available in larger sizes.



Dia.	Part No.
4"	04QC
5"	05QC
6"	06QC
8"	08QC
10"	10QC
12"	12QC

**Current Pricing**  
**www.airhand.com**

# Elbows

## Die-Stamped Elbows and Gored Elbows

**Stronger Than Most Competitor's Products** Airtight, welded elbows (die stamped and gored) are available in 45° and 90°. The die stamped elbows run from 3" to 14" and are fabricated from 24-20 gauge galvanized steel. Centerline Radius (CLR) is 1.5 x diameter. Our welded Gored (segmented) Elbows including 13", 15" and 16" are also manufactured from 20 gauge galvanized steel. Elbows 18" and larger are 18 gauge or can be quoted in heavier gauges. Elbows have 2" small end collars slightly less than even inch outside to fit into spiral pipe. All elbows have a smooth obstruction free interior. 30° and 60° elbows also available.



45° - Die-Stamped



90° - Die-Stamped



45° - 3 Gores



90° - 5 Gores

Dia.	Part No.
3"	03EL45
4"	04EL45
5"	05EL45
6"	06EL45
7"	07EL45
8"	08EL45
9"	09EL45
10"	10EL45
12"	12EL45
14"	14EL45

Dia.	Part No.
3"	03EL90
4"	04EL90
5"	05EL90
6"	06EL90
7"	07EL90
8"	08EL90
9"	09EL90
10"	10EL90
12"	12EL90
14"	14EL90

Dia.	Part No.
13"	13EL45
15"	15EL45
16"	16EL45
18"	18EL45
20"	20EL45
22"	22EL45
24"	24EL45

Dia.	Part No.
13"	13EL90
15"	15EL90
16"	16EL90
18"	18EL90
20"	20EL90
22"	22EL90
24"	24EL90

All Elbows 18" and larger are fabricated of 18 gauge galvanized metal.

## HVAC Elbow

Heating & Air Conditioning 90° elbows are 24 gauge and welded airtight. Centerline radius (CLR) is 1 x diameter making them perfect for HVAC systems.



Dia.	Part No.
4"	04EL90-1
6"	06EL90-1
8"	08EL90-1
10"	10EL90-1
12"	12EL90-1

## 90° Long Radius Elbows

One piece elbows are fabricated from a single piece of galvanized sheet metal. Centerline radius (CLR) is 2.5 x diameter. Each elbow is fully welded airtight on the back (heel). Elbows 3"-8" are 22 gauge and 10"-12" are 20 gauge.



Dia.	Part No.
3"	03EL90LR
4"	04EL90LR
5"	05EL90LR
6"	06EL90LR
7"	07EL90LR
8"	08EL90LR
10"	10EL90LR
12"	12EL90LR



## Hangers - Cost-effective Solution

DYNA-TITE CABLE LOCK is the fastest way to secure spiral pipe and equipment, reducing installation labor. A fast, strong, lightweight solution. The anti-corrosion housing has a stainless steel spring that holds the serrated teeth locking wedges against the 3/16" galvanized wire rope. There is a release pin for easy adjustment. The working weight load limit per 3/16" wire rope and Cable Lock is 640 lbs. with a 5 to 1 safety factor before breaking. These specifications apply only to Duro-Dyne Cable.



Part No.	Desc.
30350	Cable Lock: package 10
30206	3/16" wire rope: 250 ft. Spool
894075	Cable Cutter
Sold only in package or full spool	

## Hangers - Economical

Economical Hangers 3"-12" are fabricated of 20-gauge galvanized steel, which is stronger than most competitors. They are perfect for lighter duty applications. Hangers are 1" wide. One hanger is required for every 10 feet of main duct, and at least one on each 10 foot branch or less.



Dia.	Part No.
3"	03HANG-S
4"	04HANG-S
5"	05HANG-S
6"	06HANG-S
8"	08HANG-S
10"	10HANG-S
12"	12HANG-S

## Hangers - Single Rod

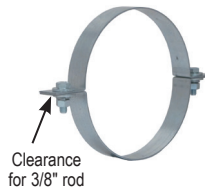
Single Rod Hangers are designed to hang from a threaded single rod and fit loose around pipe. 3"-10" fabricated of 22-gauge galv. steel and 11"-14" fabricated of 20-gauge galv. steel. **One hanger is required for every 10 feet of main duct, and at least one on each 10 foot of branch or less.**



Dia.	Part No.
3-4"	HANGER(3-4)
5-6"	HANGER(5-6)
7-8"	HANGER(7-8)
9-10"	HANGER(9-10)
11-12"	HANGER(11-12)
13-14"	HANGER(13-14)

## Hangers - Heavy-Duty Galvanized

Heavy-Duty Hangers 3"-8" are fabricated of 18-gauge steel, Hangers 9"-12", 16-gauge steel, and Hangers 12"-24", 12-gauge steel. All Heavy-Duty Hangers are 1" wide. One Hanger is required for every 10 feet of main duct, and at least one on each 10 foot branch or less. Hangers come with nuts, 5/16" bolts, and washers. Can be installed with strapping or threaded rod. **Other sizes available, call for pricing.**



Dia.	Part No.
3"	03HANG
4"	04HANG
5"	05HANG
6"	06HANG
8"	08HANG
9"	09HANG
10"	10HANG
12"	12HANG
14"	14HANG

## Hanger Strapping 5 feet, 25 feet, & 100 feet

**5 feet** - Heavy-Duty, 16-gauge Hanger Strapping is used with heavy-duty hangers and economical hangers. To install, attach a hanger approximately every ten feet on spiral pipe system and run strapping from hangers to a safe structural location. Each piece is 5 feet long, 16-gauge Galvanized by 1 inch wide. UPS shippable.

**25 feet** - Easily make your own hangers from our 20-gauge galvanized steel, Light Duty Hanger Strapping, a 25-foot roll made, 3/4" wide. Hanger strap contains continuous perforated holes for easy securing where needed. Locate hanger every 10 feet. **Recommended for hanging 22-gauge spiral pipe up to 6" in diameter.** Simply cut strip to length and form by hand.

**100 feet** - Heavy-Duty 100-foot roll of heavy 16-gauge galvanized steel hanger strapping, 1" wide. No wasted material. Weight per box 22 lbs. Easily shipped by UPS. To install, simply cut to length, locate and drill hole for hanging.

Desc.	Part No.
Strap 5'	STRAP5
Strap 25'	STRAP25
Strap 100'	STRAP100

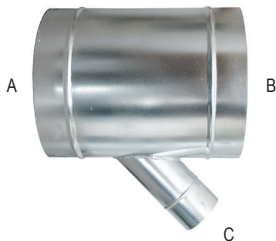
## 45° Lateral Tee

**Stronger Than Competitor's Products, Airtight, Fully Welded** Built of 20 gauge steel, stronger than most competitor's products, Lateral Tees are fully welded, air tight to prevent leakage, saving you money. To minimize turbulence and possible particulate that may settle out in your dust and fume collection duct-work, we recommend that Lateral Tee branches enter the main at a 45° angle. Lateral Tees should be installed to the side of the main, and no two branches should be entering opposite one another. Other sizes available upon request, contact us for quote and lead time.

**Fully  
Airtight  
Welded**



6" on 6" 45° Lateral Tee



4" on 12" 45° Lateral Tee

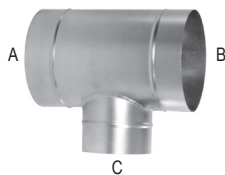
## Specification & Installation

Our Lateral fittings are fabricated out of 20 ga. galvanized metal, with all seams welded solid to make an airtight system. To allow for an easy installation, tees are fabricated with a bead two (2) inches in from each small end. This allows Spiral Pipe or Flexible Hose to fit over the Tee and set up tight against the bead. For a permanent installation, it is recommended that you place a small amount of silicone about one inch in and around the inside of the Spiral Pipe before you assemble any fitting. This chemical bond will make your Air Handling System completely airtight.

## 90° Bullhead Tee

Bullhead Tees are designed for **heating and air conditioning systems, not to be used for dust collection.** When ordering replace LT with BT, contact us for lead time.

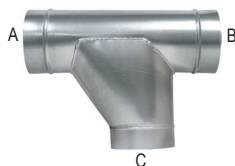
**Fully  
Airtight  
Welded**



## 90° Boot Tee

Boot Tees are commonly used in confined area that does not allow use of 45° Lateral Tee. Call for price and lead time. When ordering, replace LT with BOOT. Example: 06BOOT12

**Fully  
Airtight  
Welded**



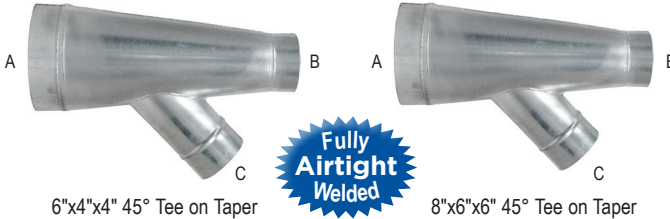
C on A-B	Part No.
02 on 04	02LT04
02 on 06	02LT06
03 on 03	03LT03
03 on 04	03LT04
03 on 05	03LT05
03 on 06	03LT06
03 on 08	03LT08
04 on 04	04LT04
04 on 05	04LT05
04 on 06	04LT06
04 on 07	04LT07
04 on 08	04LT08
04 on 10	04LT10
04 on 12	04LT12
05 on 05	05LT05
05 on 06	05LT06
05 on 07	05LT07
05 on 08	05LT08
05 on 09	05LT09
05 on 10	05LT10
05 on 12	05LT12
06 on 06	06LT06
06 on 07	06LT07
06 on 08	06LT08
06 on 10	06LT10
06 on 12	06LT12
06 on 14	06LT14
07 on 08	07LT08
07 on 10	07LT10
07 on 12	07LT12
07 on 14	07LT14
08 on 08	08LT08
08 on 10	08LT10
08 on 12	08LT12
08 on 14	08LT14
08 on 16	08LT16
10 on 10	10LT10
10 on 12	10LT12
10 on 14	10LT14
10 on 16	10LT16
12 on 12	12LT12
12 on 14	12LT14
12 on 16	12LT16
12 on 18	12LT18
14 on 14	14LT14
14 on 16	14LT16
16 on 16	16LT16
18 on 18	18LT18

**Current Pricing  
www.airhand.com**



## 45° Tee on Taper

**Airtight, Fully Welded, Stronger Than Competitor's Products** Tee on Tapers are needed to reduce static pressure in your dust collection system and improve the overall performance. Tee on Tapers are used in locations where the combination of lateral tee and reducer may be planned. Many other sizes available, contact us at 203-389-9595 or sales@airhand.com for quote.



A x B x C	Part No.
4"x3"x3"	04X03X03TT
5"x4"x3"	05X04X03TT
5"x4"x4"	05X04X04TT
6"x4"x4"	06X04X04TT
6"x5"x3"	06X05X03TT
6"x5"x4"	06X05X04TT
6"x5"x5"	06X05X05TT
7"x5"x5"	07X05X05TT
7"x6"x4"	07X06X04TT
8"x6"x4"	08X06X04TT
8"x6"x5"	08X06X05TT
8"x6"x6"	08X06X06TT
10"x8"x6"	10X08X06TT
10"x8"x8"	10X08X08TT
12"x10"x6"	12X10X06TT

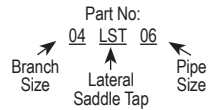
## 45° Lateral Saddle Tap

**Airtight, Fully Welded, Stronger Than Competitor's Products** Commonly used when tapping into existing pipe, a 45° Saddle Tap can be added on existing duct work by cutting a hole and pop riveting the saddle over the opening. It is important that you have the air volume (C.F.M.) for the new opening. Part Number designation for ordering, use "LST". A 4" branch on 6" pipe use Part No.: 04LST06.

- Saddle price is based on branch diameter.
- Saddle branch is male end.
- Saddle is rolled to fit specified pipe size.
- 20 Gauge galvanized welded construction.
- Fabricated to order.

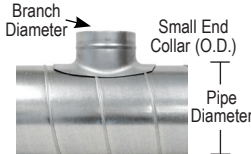


Branch Dia.	Part No.
2"	02LST__
3"	03LST__
4"	04LST__
5"	05LST__
6"	06LST__
8"	08LST__
10"	10LST__
12"	12LST__



## 90° Stamped Saddle Tap

90° Saddle Tap is used to add branches onto existing pipe. **Only for use in Heat/AC and Low Velocity Systems.** NOT to be used for Dust Collection Systems.

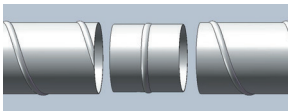


Branch Dia. on Pipe Dia.	Part No.
6" on 6", 8", 10"/12", 14"/16"/18", 20"/22"/24"	06ST__
8" on 8", 10", 12"/14", 16"/18", 20"/22"/24"	08ST__
10" on 10", 12", 14"/16", 18"/20", 22"/24"	10ST__
12" on 12", 14"/16", 18"/20", 22"/24"	12ST__

Other sizes available upon request

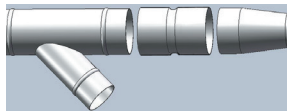
## Installation of Spiral Pipe and Fittings

### Pipe-To-Pipe Connection



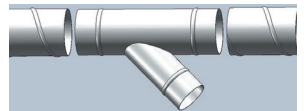
Spiral pipe is connected by a small end coupling (Part No. COUP) which slips into the pipe sections.

### Fitting-To-Fitting Connection



Fitting-to-Fitting connections can be made using a large end coupling (Part No. COU2).

### Fitting-To-Pipe Connection

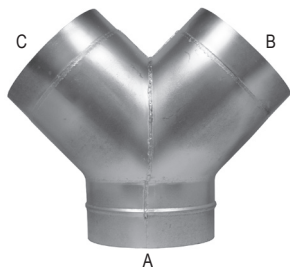


All fittings are sized to slip into mating pipe sections or flexible hose. No additional coupling will be needed.

# Y Branches, Multi Tap Tees

## Y Branches

**Fully Welded, Airtight** Y Branch is the perfect solution for merging two branches of equal size together. As with our Tees, Y Branches are built to industrial standards of 20 gauge galvanized steel. Other sizes available upon request.



6" x 6" x 6" Y Branch



10" x 8" x 8" Y Branch

**Current Pricing**  
[www.airhand.com](http://www.airhand.com)

A x B x C	Part No.
3"x3"x3"	03X03X03Y
4"x3"x3"	04X03X03Y
4"x4"x4"	04X04X04Y
5"x3"x3"	05X03X03Y
5"x4"x4"	05X04X04Y
5"x5"x5"	05X05X05Y
6"x3"x3"	06X03X03Y
6"x4"x4"	06X04X04Y
6"x5"x5"	06X05X05Y
6"x6"x6"	06X06X06Y
7"x4"x4"	07X04X04Y
7"x5"x5"	07X05X05Y
7"x7"x7"	07X07X07Y
8"x4"x4"	08X04X04Y
8"x5"x5"	08X05X05Y
8"x6"x6"	08X06X06Y
8"x8"x8"	08X08X08Y
10"x5"x5"	10X05X05Y
10"x6"x6"	10X06X06Y
10"x8"x8"	10X08X08Y
10"x10"x10"	10X10X10Y

## OEM, Production and Speciality Fittings

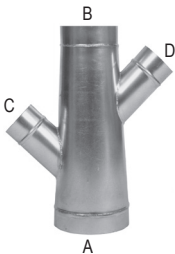
**What You Need, When You Need It. Fully Welded, Airtight**

We fabricate a variety of OEM, production and speciality round fittings. Standard material is 20 ga. galvanized steel, other materials are available including galvanized (paintable) steel. Whether you need one special fitting or a thousand custom parts, we fabricate components to meet the needs of our diversified customer base.

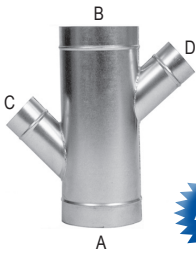


## Multi-Tap Tees

**Stronger Than Most Competitor's Products Airtight, Fully Welded** Perfect for machinery requiring multiple dust collection points.

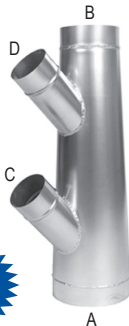


45° Double Cross  
Tee on Taper  
DCTTAP45

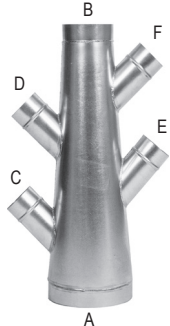


45° Double Cross  
Lateral Tee  
DCLT45

**Fully Airtight Welded**



45° Double Branch  
Tee on Taper  
DBTTAP45

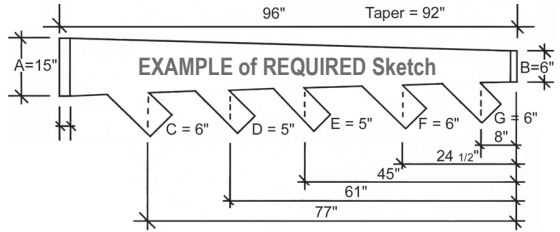


45° Double Cross Branch  
Tee on Taper  
DCBTTAP45

## 45° Multi Tap Manifolds

### What You Need, When You Need It.

**Fully Welded, Airtight** We fabricate Multi Tap Manifolds to your specifications, within seven business days. To provide a quote we require a DETAILED Sketch of the manifold. On the sketch, designate the A & B diameter, then, designate the placement and diameter of each tap C, D, E, F etc. Provide measurements from small-end B to the start of each tap working toward A (taps can be on opposite sides).



Multi-Tap Manifold  
(4 taps) for a high  
production sander

**Fully  
Airtight  
Welded**



Multi-Tap Manifold  
(4 taps) for a gang of  
Shapers



Multi-Tap Manifold  
(7 taps) built for a  
cabinet manufacturer using  
an Edgebander; shipped in  
2 pieces via UPS

### AHS ON THE JOB - Gil Russ, Loveland, OH

"I don't know how you get the items to fit together so well? I know when you weld metal it is hard to hold a true form, however, Air Handling Systems has this down pat. Other companies cannot do this - that is why they only offer fittings that are spot-welded. But Air Handling Systems fully welds everything. That's why they are the experts. Everyone who comes into my shop is impressed with my dust collection system. I recommend that they call Air Handling Systems if they want a clean shop."

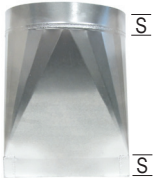
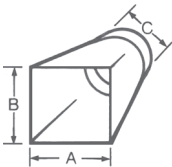
Transitions

**Stronger Than Most Competitor's Products Airtight, Fully Welded** Transitions are custom fabricated of 20 gauge galvanized steel with welded construction. Flanges are not included but will be priced upon request. The round end 3"-24" is concentric to the square or rectangular end. Please specify I.D. or O.D. dimensions. Transition pricing applies to those with a round, rectangular, or square end area within 10%.

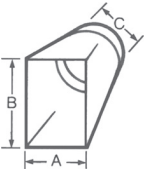


- Transitions 3"-11" diameter overall length = 9", S = 2"
- Transitions 12"-15" diameter overall length = 12", S = 2"
- Transitions 16"-24" diameter overall length = 16", S = 2"

Dia.	Circle Area in Sq. In.
3"	7.07
4"	12.57
5"	19.63
6"	28.27
8"	50.27
9"	63.62
10"	78.54
12"	113.10
14"	153.90
16"	201.00
18"	254.40
20"	314.10
22"	380.10
24"	452.30



Trans 1 - Square to Round



Trans 2 - Rectangle to Round,  
with 1 inch bent out flange

**Current Pricing**  
**203.389.9595**  
**www.airhand.com**

Nozzles

Nozzles are best utilized to get the capture velocity in close to your work area. This helps collect the majority of the dust or fumes. These are designed with a small end (O.D.) collar to attach directly to flexible hose. Nozzles are available in standard sizes only, 26 gauge, lap and spot welded construction. For custom sizes, see Transitions, above.



Type 1 - Square



Type 2 - Side Intake



Type 3 - Flat

Dia.	Type	Description	Part No.
3"	1	4" x 4" Square	C51014
4"	1	5" x 5" Square	C51015
5"	1	6" x 6" Square	C51016
6"	1	8" x 8" Square	C51030
3"	2	3" x 5" Side Intake	C51018
4"	2	4" x 8" Side Intake	C51019
5"	2	5" x 8" Side Intake	C51020
6"	2	6" x 9" Side Intake	C51021
3"	3	7" x 1.25" Flat	C51026
4"	3	8" x 2" Flat	C51027
5"	3	10" x 2.25" Flat	C51028
6"	3	12" x 3" Flat	C51029

## Spun Reducers

**Seam Welded, Airtight** Standard Spun Reducers, are lathe formed from 20 gauge galvanized metal. Both ends are male end collars sized to fit into spiral pipe or flex hose (Collar is roughly two inches long). Overall Spun Reducer lengths are approximately eight inches. **Other sizes and materials available, please contact us for quote and lead time.**

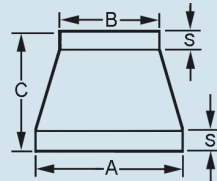
Dia.	Part No.
4" to 3"	04SR03
5" to 3"	05SR03
5" to 4"	05SR04
6" to 3"	06SR03
6" to 4"	06SR04
6" to 5"	06SR05
7" to 4"	07SR04
7" to 5"	07SR05
7" to 6"	07SR06
8" to 4"	08SR04
8" to 5"	08SR05
8" to 6"	08SR06
8" to 7"	08SR07
9" to 5"	09SR05
9" to 6"	09SR06
9" to 8"	09SR08



Dia.	Part No.
10" to 5"	10SR05
10" to 6"	10SR06
10" to 7"	10SR07
10" to 8"	10SR08
10" to 9"	10SR09
11" to 8"	11SR08
11" to 9"	11SR09
11" to 10"	11SR10
12" to 6"	12SR06
12" to 8"	12SR08
12" to 9"	12SR09
12" to 10"	12SR10
13" to 10"	13SR10
13" to 12"	13SR12
14" to 8"	14SR08
14" to 10"	14SR10
14" to 12"	14SR12

## Custom Concentric Reducers

- Fully welded, airtight
- Fabricated to your specifications
- 20 Gauge Galvanized Metal.
- When ordering, use A, B & C dimensions. S=2".

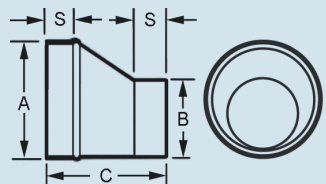
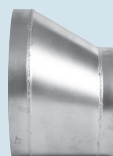


## AHS ON THE JOB - Warren Lemaster, LeMaster Marine/LeMaster Builders, Bayside, CA

*"It's always been my pleasure and advantage to deal with your company, Air Handling Systems, and personally with Curt Corum. I look forward to placing my next order. The personal attention and capability to provide quality materials with custom workmanship is very much appreciated."*

## Custom Eccentric Reducers

- Fully welded, airtight
- Fabricated to your specifications
- 20 Gauge Galvanized Metal.
- When ordering, use A, B & C dimensions. S=2".
- Heating and Air Conditioning Systems Only.



# Blast Gates

## Full Blast Gate

Full Blast Gates 3"-24" are constructed of aluminum castings with a galvanized steel slide blade. Gate can be disassembled for cleaning. Full Blast Gates are used to balance the air going from one branch to another branch. When a machine is used for only a part of the workday, you can close the Blast Gate and divert the air to another machine.



Dia.	Part No.
3"	03GATE
4"	04GATE
5"	05GATE
6"	06GATE
7"	07GATE
8"	08GATE
9"	09GATE
10"	10GATE
12"	12GATE

## Half Blast Gate

Half Gates 3"-18" have the same quality and construction as the Full Blast Gate. Use Half Gates when working with wood containing a lot of pitch (it prevents the pitch from clogging the slide track). Half Gate is easily installed in existing ductwork simply by cutting a slot half way around the duct and sliding the blade into the opening, then pop riveting the casting to the outside of the duct.



Dia.	Part No.
3"	03HGATE
4"	04HGATE
5"	05HGATE
6"	06HGATE
8"	08HGATE
9"	09HGATE
10"	10HGATE

## Self-Cleaning Blast Gate

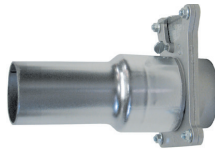
Self-Cleaning Gates are the same construction as Full Blast Gates except the galvanized steel blade pushes material like green wood, or wood sap through the end of the blast gate casting. This allows the blade to close without jamming on compacted materials.



Dia.	Part No.
3"	03SGATE
4"	04SGATE
5"	05SGATE
6"	06SGATE
8"	08SGATE
10"	10SGATE
12"	12SGATE

## 2" Blast Gate with IO

2" Blast Gate with Inside Outside (IO) Coupling designed to fit INSIDE 2" flexible hose without restriction of airflow.



Dia.	Part No.
2"	02GATE-IOK

## Hose to Gate Connector

Hose to Blast Gate Connector (BC) serves as an extension to facilitate installation of flexible hose to blast gate. See page 27.



**Current Pricing**  
**[www.airhand.com](http://www.airhand.com)**

## Balancing with Blast Gates

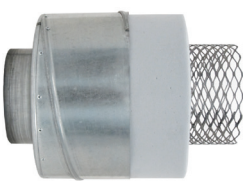
Our Blast Gates can be adjusted to be open or closed at any position to best optimize their airflow from the equipment. Each of our Blast Gates has a thumbscrew adjustment to control CFM flow. You may close off a duct system a small amount and force that CFM to be used at another machine. Once you balance your system, just mark the location of each blast gate blade, you can even use color markings for different settings.



## Duct Silencers

Duct Silencers greatly reduce air movement noise levels (50% reduction in noise energy) in your work area or outside the building when located in the duct line on CLEAN air discharge of fans and dust collectors. Duct Silencers can be installed in new or existing systems. Not to be installed on inlet side of dust collector.

Our Duct Silencer is constructed of three layers. The inside layer is a wall fabricated of 22 gauge expanded metal. This is wrapped in the second layer which is a noise absorbing melamine foam. The foam is coated with a thermoplastic polyurethane film, this coating stops the foam from absorbing contaminate that flows through the duct system and at the same time allows air noise to pass into the foam. Finally, the outer layer consists of 22 gauge galvanized steel spiral pipe. **Please contact us for quote and lead time.**



Cross Section of Silencer, showing inner expanded metal wrapped in sound acoustical foam covered by our spiral pipe as the outer layer



Stainless Steel Silencers and larger sizes available, call for quote.

Dia.	L x W	Part No.
5"	36" x 9"	05SILE
6"	36" x 10"	06SILE
8"	36" x 12"	08SILE
10"	36" x 14"	10SILE
12"	36" x 16"	12SILE
14"	46" x 18"	14SILE
16"	46" x 20"	16SILE
18"	46" x 22"	18SILE

## Up-Blast Stack Cap

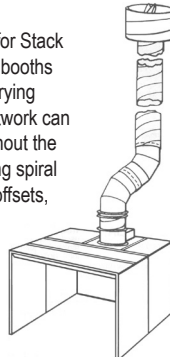
Up-Blast Stack Cap combination non-back draft damper is applied at the terminating point of a vertical exhaust stack. The Cap has two damper blades that open automatically when the fan is turned on. When the fan is at operating speed, rain and snow are pushed away from the open duct. The damper blades remain at a slight angle when they are open. At the moment the fan is turned off, the blades drop and close off the open duct. This stops rain, snow or outside air from entering the duct system.

Most state and local municipalities "require" an Up-Blast Stack Cap as the terminating point of an exhaust duct that is directed to the atmosphere. It is also recommended to terminate the exhaust duct 6 feet above the roof line in a vertical fashion. This prevents the contaminant from being drawn into the heating or air conditioning units, open windows, make up air units and other open vents in the roof. For additional information, please refer to NFPA 33 and NFPA 91. The Code booklets can be obtained from the National Fire Protection Agency, [www.nfpa.org](http://www.nfpa.org). Please contact us for lead time. **Stainless Steel Stack Caps and larger sizes also available, call for lead time and quote.**



Side View. Collar sized to slip OVER spiral pipe.

Common uses for Stack Caps are spray booths (as shown) or drying ovens. Our ductwork can be used throughout the system, including spiral pipes, elbows, offsets, and transitions.



Dia.	Length	Part No.
6"	14"	UB06
8"	16"	UB08
10"	18"	UB10
12"	20"	UB12
14"	22"	UB14
16"	24"	UB16
18"	26"	UB18

Useful Fittings

Swivel Ball Joint

Swivel Ball Joints with TWO properly installed collars - one to fit ductwork and a second EXTENDED COLLAR to connect to flexible hose allowing for free rotation. Do not be undersold just to save money. Most companies sell short collars, which are detrimental to installation and make it hard to connect pipe or hose. Competitors Ball Joints cannot be installed as sold. We add collars to ease connection to ductwork and hose. **Constructed of 20 gauge galvanized steel.**



Dia.	Part No.
4"	04BJC
5"	05BJC
6"	06BJC
8"	08BJC
10"	10BJC
12"	12BJC

Ball Joints are perfect for CNC Routers

Floorsweep

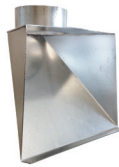
Floorsweeps ease clean-up when located near a machine where sufficient dust collection is difficult. At the end of the day, simply sweep dust into the Floorsweep. **18 gauge galvanized steel, welded construction.**



Dia.	Part No.	Opening Size	Height
4"	04FSWEEP	12" x 1.75"	13"
5"	05FSWEEP	14" x 2"	14.25"
6"	06FSWEEP	16" x 2"	14.25"

Radial Saw Hood

Designed to be located behind saw blade. Hood has 4", 5" or 6" diameter collar, **18 gauge galvanized steel, welded construction.**

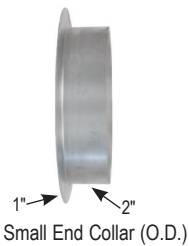


Dia.	Part No.	Size
4"	04RADIAL	H=9.5", W=9.5", D=7.5"
5"	05RADIAL	H=9.5", W=9.5", D=7.5"
6"	06RADIAL	H=9.5", W=9.5", D=7.5"

**Current Pricing**  
[www.airhand.com](http://www.airhand.com)

Starter Collar

Starter Collars are used when spaced is limited, for attaching flexible hose or pipe to a flat surface. This does not allow for the best airflow but is an alternative in a tight spot. They have a smaller back flange than bellmouths and take less space to install. They are also ideal for hanging filter bags. **20 gauge galvanized steel.** Other sizes available.



Dia.	Part No.
3"	03RING-G
4"	04RING-G
5"	05RING-G
6"	06RING-G
8"	08RING-G
10"	10RING-G
12"	12RING-G
14"	14RING-G

Bellmouth

Bellmouth is the optimum flow fitting for tapping round pipe or flexible hose to a flat surface. It is the proper fitting as recommended by the ACGIH, that must be used when tapping to a flat surface when space allows. You can locate a bellmouth on the under side of a table saw, then attach ducting. Other sizes available. **20 gauge galvanized steel.**

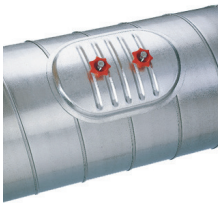


Dia.	Part No.
4"	04BELL
5"	05BELL
6"	06BELL
8"	08BELL
10"	10BELL
12"	12BELL

## Access Doors for Round Duct

Quick and Simple. Can be installed in minutes. Access Doors for round ducts are fabricated of galvanized steel. They have their own gaskets; no sealant is required, even for high-pressure applications. There are many times you need access into your duct system. For example, cleaning a spray booth duct and fan blade, cleaning out plugged ductwork, checking sprinkler heads or a fire damper's fusible links. This is the perfect solution. Other sizes available including High Temperature Doors. Fiberglass Rope 1000°F or Ceramic Fiber Gasket 2300°F.

**Access Doors for Round Duct are installed right above the tube axial fans (tube fans) to allow for cleaning and inspection of the fan blades as these are presently inaccessible areas.**



EASY Installation - Stick pattern on duct. Cut around pattern. Insert Door.

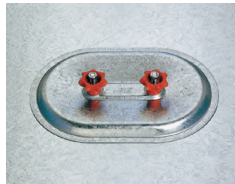


Pipe Dia.	Door Size	Part No.
4"	7"x3"	07ACDR03(4)
5"	7"x3"	07ACDR03(5)
6"	8"x4"	08ACDR04(6)
7"	8"x4"	08ACDR04(7)
8"	8"x4"	08ACDR04(8)
10"	8"x4"	08ACDR04(10)
12"	12"x8"	12ACDR08(12)
14"	12"x8"	12ACDR08(14)
16"	12"x8"	12ACDR08(16)
18"	16"x12"	16ACDR12(18)
20"	16"x12"	16ACDR12(20)
22"	20"x16"	20ACDR16(22)
24"-26"	20"x16"	20ACDR16(24-26)
28"	20"x16"	20ACDR16(28)
30"-32"	20"x16"	20ACDR16(30-32)
34"-36"	20"x16"	20ACDR16(34-36)
38"-40"	20"x16"	20ACDR16(38-40)
42"-46"	20"x16"	20ACDR16(42-46)50



## Access Doors for Flat Surfaces

Flat Access Doors (oval shape) are fabricated of galvanized steel. They are perfect for use with rectangular or square duct. Can also be used for access in storage bins and into machines such as table saws. High Temperature Doors. Allow 10 working days for fabrication. Fiberglass Rope 1000°F or Ceramic Fiber Gasket 2300°F.



Door Size	Part No.
8" x 4"	08FTAC04
12" x 8"	12FTAC08
16" x 12"	16FTAC12
20" x 16"	20FTAC16
24" x 16"	24FTAC16

### AHS ON THE JOB - Roy Myers, Myers Cabinets, Whitestown, IN

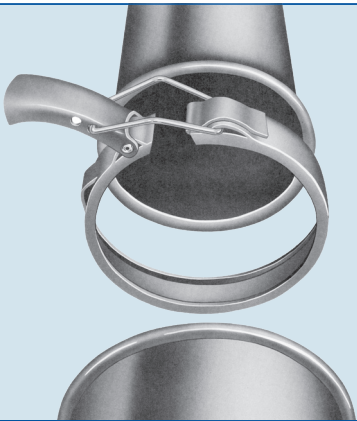
*"Speed in providing the needed materials and accuracy in system design tools are essential services provided by Air Handling Systems. The ease of installation helped save me money by using my own staff to install this entire system." Continues Myers. "Outstanding Service and Technical Advice is why I continue to use Air Handling Systems."*

# Clamp-Together Duct System

## Clamp Together Duct System

Air Handling Systems provides a full range of ALL types of ductwork to handle all your dust collection, fume collection and industrial ventilation needs.

Our Clamp Together (CT) Ductwork easily connects to your existing system. The Clamp Together Duct System uses a barrel-type clamp to attach two rolled edges of ducting together. A specially designed gasket inside the clamp seals the joint tightly. Clamp each piece together without any special tools; the telescoping Clamp Together adjustable sleeve eliminates precise measurements. Pipe is laser welded and CT collars are added to our fully welded, air tight fittings



**CT Pipe** Pipe clamps together without welds, bolts, screws, flanges, special tools, or specialized skills. CT Pipe has a laser welded seam and rolled ends for use with CT Clamps, allowing quick assembly/ disassembly and relocation.



Standard length 59"

**Clamps** Clamp Together (CT) Clamps provides quick and easy connections for Air Handling Systems CT Pipe and Fittings. Clamps come standard with Nitrile seals and bridge pin for locking clamp into closed position.



**Lateral Tee** Built of 20 gauge steel, stronger than most competitor's products, CT Lateral Tees are fully welded, air tight to prevent leakage, saving you money. Lateral Tees should be installed to the side of the main.



Dia.	Part No.
3"	03X5PI-CT
4"	04X5PI-CT
5"	05X5PI-CT
6"	06X5PI-CT
7"	07X5PI-CT
8"	08X5PI-CT
9"	09X5PI-CT
10"	10X5PI-CT
12"	12X5PI-CT

Dia.	Part No.
3"	03CLAMP-CT
4"	04CLAMP-CT
5"	05CLAMP-CT
6"	06CLAMP-CT
7"	07CLAMP-CT
8"	08CLAMP-CT
9"	09CLAMP-CT
10"	10CLAMP-CT
12"	12CLAMP-CT

Dia.	Part No.
3" on 4"	03LT04-CT
3" on 5"	03LT05-CT
3" on 6"	03LT06-CT
4" on 4"	04LT04-CT
4" on 5"	04LT05-CT
4" on 6"	04LT06-CT
5" on 6"	05LT06-CT
6" on 6"	06LT06-CT
6" on 8"	06LT08-CT

**Adjustable Sleeve** Provides for variable length adjustment of Clamp Together System. Approx. 11" long.



Dia.	Part No.
4"	04ADSL-CT
5"	05ADSL-CT
6"	06ADSL-CT
8"	08ADSL-CT
10"	10ADSL-CT
12"	12ADSL-CT

# Clamp-Together Duct System

**Y Branch** Ideal fitting for proper airflow when connecting two branches together and can be made with various diameter branches. As with our Tees, Clamp Together (CT) Y Branches are built to industrial standards of 20 gauge galvanized steel; fully welded, airtight.



Dia.	Part No.
3"x3"x3"	03X03X03Y-CT
4"x3"x3"	04X03X03Y-CT
5"x5"x5"	05X05X05Y-CT
6"x3"x3"	06X03X03Y-CT
6"x4"x4"	06X04X04Y-CT
6"x5"x5"	06X05X05Y-CT
6"x6"x6"	06X06X06Y-CT
7"x6"x6"	07X06X06Y-CT

**Full Blastgates** Balance air going from one branch to another. By closing an idle machine's gate, air will be diverted improving system effectiveness.



Dia.	Part No.
3"	03GATE-CT
4"	04GATE-CT
5"	05GATE-CT
6"	06GATECT
8"	08GATECT
10"	10GATE-CT
12"	12GATE-CT

**Elbows** Smooth obstruction free interior. Clamp Together (CT) Elbows are fully welded with rolled ends for use with Clamp Together Ductwork, allowing quick assembly / disassembly and relocation.



45°

Die-Stamped



90°

Die-Stamped

Dia.	Part No.
3"	03EL45-CT
4"	04EL45-CT
5"	05EL45-CT
6"	06EL45-CT
8"	08EL45-CT
10"	10EL45-CT
12"	12EL45-CT

Dia.	Part No.
3"	03EL90-CT
4"	04EL90-CT
5"	05EL90-CT
6"	06EL90-CT
8"	08EL90-CT
10"	10EL90-CT
12"	12EL90-CT

**Spun Reducers** Perfect solution for enlarging or decreasing the duct size in order to gain efficiency in a properly designed system with CT collars.



Dia.	Part No.
4" to 3"	04SR03-CT
5" to 3"	05SR03-CT
5" to 4"	05SR04-CT
6" to 3"	06SR03-CT
6" to 4"	06SR04-CT
6" to 5"	06SR05-CT
8" to 4"	08SR04-CT
8" to 6"	08SR06-CT
10" to 6"	10SR06-CT
10" to 8"	10SR08-CT
12" to 8"	12SR08-CT

**Ball Joints** Swivel Ball Joints with CT collars allow for free rotation. Constructed of 20 gauge galvanized steel.



Dia.	Part No.
6"	06BJ-CT
8"	08BJ-CT
10"	10BJ-CT

**Machine Adapter** Allows easy connection of Clamp Together ductwork. Sized +1/16" ID (.0625") in the expanded version.



**Hose Adapter** Provides connection from Clamp Together (CT) ductwork to flexible hose. Hose end is beaded to help retain hose with the hose clamp.



**Current Pricing**  
[www.airhand.com](http://www.airhand.com)

**Call to Order 203.389.9595 25**

# Stainless Steel

## Stainless Steel Components

All Stainless Steel materials are supplied in 304, 2B, unless otherwise specified. Due to market fluctuations, prices and product availability will be quoted upon request.

### Stainless Straight Pipe

Five foot length

Dia.	Part No.
4"	04X5PSS
5"	05X5PSS
6"	06X5PSS
8"	08X5PSS
10"	10X5PSS
12"	12X5PSS
14"	14X5PSS



### Stainless Angle Rings

Pre-punched

Dia.	Part No.
4"	04RINGSS
6"	06RINGSS
8"	08RINGSS
10"	10RINGSS
12"	12RINGSS
14"	14RINGSS
16"	16RINGSS
18"	18RINGSS
20"	20RINGSS
24"	24RINGSS



### Stainless Steel Welded Elbows

20 Gauge

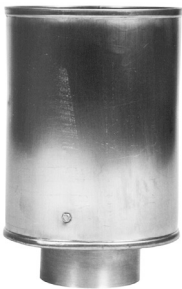
Dia.	Part No.
4"	04EL45SS
5"	05EL45SS
6"	06EL45SS
7"	07EL45SS
8"	08EL45SS
9"	09EL45SS
10"	10EL45SS
12"	12EL45SS
14"	14EL45SS



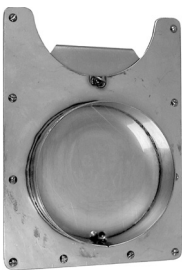
Dia.	Part No.
4"	04EL90SS
5"	05EL90SS
6"	06EL90SS
7"	07EL90SS
8"	08EL90SS
9"	09EL90SS
10"	10EL90SS
12"	12EL90SS
14"	14EL90SS

## Other Stainless Steel fittings available include:

### Up-Blast Stack Caps



### Full Blast Gates



### Y Branches



### Fabricated Reducers



### Bellmouths



### Lateral Tees



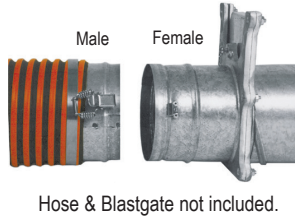
### Starter Collars





## Quick Flexible Hose Disconnect (QFD)

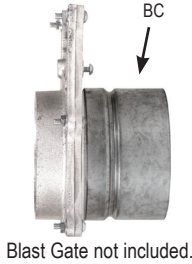
Quick Flexhose Disconnects are an easy way of connecting flexhose to hood collar or duct run. Installs in flexhose with hose clamp. Just unsnap to remove quickly. Priced as a set. Also available separately, call for pricing and availability.



Dia.	Part No.
4"	04QFD
5"	05QFD
6"	06QFD
8"	08QFD
10"	10QFD
12"	12QFD

## Hose to Gate Connector

Hose to Blast Gate Connector (BC) serves as an extension to facilitate installation of flexible hose to blast gate. BC Connectors are three inches long, 22 gauge, and fits snugly over small end of blast gate while flexible hose fits tightly over the other end. Pop rivet BC Connector to Blast Gate, for a long lasting easy installation.



Dia.	Part No.
3"	03BC
4"	04BC
5"	05BC
6"	06BC
7"	07BC
8"	08BC
10"	10BC
12"	12BC

## AHS ON THE JOB - TJ Carr, Downes and Reader

*"Air Handling Systems has been able to help me over every hurdle I've had. From collection issues at the machine to return air; the support, service and inventory has been there when I needed it. They are a wonderful group to work with, always helpful and responsive from the sales desk to the shipping department."*

## 3-Bead Coupling for Hose

3-Bead Coupling (COUX) is the solution for connecting short hose sections to create a usable length. Do you have a damaged hose section? Simply cut out the bad section and splice it back together with the 3-Bead Coupling. You can also use the COUX to extend an existing hose drop when necessary to connect to a machine a little further away. Constructed of 20 gauge galvanized steel. Overall length = 6".



Dia.	Part No.
3"	03COUX
4"	04COUX
5"	05COUX
6"	06COUX
8"	08COUX
10"	10COUX
12"	12COUX

**Current Pricing**  
**[www.airhand.com](http://www.airhand.com)**

## Stainless Steel Hose Clamps

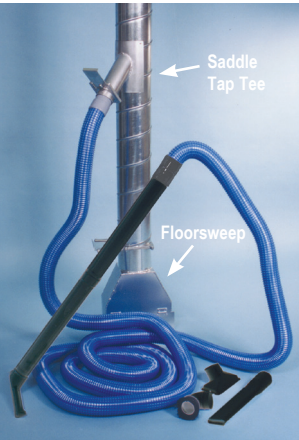
Completely mechanical design locks the one-piece housing directly to the band, using the full strength of the material to provide maximum anti-shear protection. There are no spot welds to rupture under stress or corrosion. And the one-piece housing cannot come apart under high loading. All Stainless Steel construction. Material Specifications Screw: 5/16" hex-head. 410 stainless steel. Band: 1/2" band width. 201/301 stainless steel. Housing: 201/301 stainless steel.



Dia.	Part No.
2"	02CLAM
3"	03CLAM
4"	04CLAM
5"	05CLAM
6"	06CLAM
8"	08CLAM
10"	10CLAM
12"	12CLAM

Industrial Vacuum Hose & Kit

Dust collection systems work great, but, they cannot possibly remove all the dust in the shop. How do you get rid of the stray dust from your hand tools and other machines that don't have dust collection attachments? The Industrial Vacuum Hose & Kit will put the stray dust where it belongs - in the dust collector. **The Vacuum Kit includes the following: 2-1/2" Industrial Vacuum Hose (25 feet long), Nozzle Kit including Crevice tool, 14" wide Floor Nozzle, Dust Brush, Bench Nozzle, Elbow Grip, two Wands, plus two Hose Cuffs** (Gate and Saddle Tap Tee NOT included). The kit attaches directly to your existing ductwork with a Saddle Tap Tee and 3" Blast Gate with special metal cuff (03CUFFAD).



**Construction:** Longitudinal and helical polyester fibers bonded to a final layer of PVC reinforced with a spring steel wire helix.  
**Color:** Blue  
**Available Diameter:** 2 1/2" I.D.  
**Hose Lengths:** 25 ft. or 50 ft.  
**Temperature Range:** -20°F to 150°F

Desc.	Part No.
Vac Kit w/25' hose*	025IVHKITK
25 feet of hose	025IVH25
Nozzle Kit	025ACCEK
Hose Cuff	025CUFF
3" Gate & Coup	03CUFFAD
Saddle Tap Tee	03LSTxx*

\*Vacuum Kit includes 25' of hose, cuff & nozzle kit (gate and saddle tap tee NOT included).

Industrial Vacuum Hose and Kit is designed for general clean up around the shop floor and machinery. **Do not use for very fine dust collection such as bag house room or very prolonged periods of time. Required: Minimum 5 HP Two-Stage Dust Collector; NOT for use with Single Stage Dust Collectors.**

Why buy a portable vacuum when you can use the dust collector you already have?

**Shop Online**  
[www.airhand.com](http://www.airhand.com)

General Purpose RFH

**Chemical Resistant. Fume Removal. Light Dust Collection. Moisture Resistant. UV/Ozone Resistant.** Most versatile general purpose hose available. No cements, glues or adhesives are used in the manufacturing process. Can handle applications with a wide temperature range. Superior chemical resistance. UV/ ozone resistant. Mild abrasion resistant. **Also available:** RFH-METRIC is identical to RFH except that it is metric size in 80mm and 160mm. Developed specifically to meet the needs of imported machinery owners. **Standard Length:** 25 ft.



**Construction:** 30-MIL thermoplastic rubber with a wire helix  
**Color:** Black  
**Standard Lengths:** 5 ft., 10 ft., 25 ft.  
**Temp. Range:** -60°F to 275°F continuous service, intermittent service to 300°F

Dia.	Part No.
2"	02RFH
3"	03RFH
4"	04RFH
5"	05RFH
6"	06RFH
7"	07RFH
8"	08RFH
10"	10RFH
12"	12RFH

## Flame Retardant Polyester Neoprene AH2P

**Flame Retardant. UL Listed. Chemical Resistant. Fume Removal. Puncture Resistant.** AH2P is strong, flexible and flame retardant to UL94V-0 rating, it is suitable for a wide range of applications from welding exhaust to dust collection on conveyors, grinders, buffers, polishers, machine tools, surface grinders, wood-working machines, and removal of smoke, fumes and airborne particles.



**Construction:** 2-ply 100% polyester neoprene coated flame retardant to UL94V-0 rating with a crush resistant spring steel wire helix

**Color:** Black

**Standard Length:** 25 ft. or 12.5 ft. for \$10 cutting charge.

**Temp. Range:** -40°F to 250°F

Dia.	Part No.
2"	02AH2P
3"	03AH2P
4"	04AH2P
5"	05AH2P
6"	06AH2P
8"	08AH2P
10"	10AH2P

## Smooth Bore Abrasion Resistance Urethane U30-AP

**Moisture Resistant. UV/Ozone Resistant. Abrasion Resistant. Puncture Resistant.** U30-AP has an ultra smooth interior which assures efficient airflow. Great abrasion, puncture and tear resistance with high tensile strength and lightweight. Clarity of hose allows easy visual check for blockages. External ABS helix.



**Construction:** 33-40 MIL co-extruded all thermoplastic ether based polyurethane with rigid external ABS helix.

**Color:** Clear & Yellow

**Standard Length:** 25 ft.

**Temp. Range:** -40°F to 200°F

Dia.	Part No.
3"	03U30-AP
4"	04U30-AP
5"	05U30-AP
6"	06U30-AP
8"	08U30-AP

## Chemical Resistance, Fume Control CVD

**Chemical Resistant. Fume Removal. Oil Resistant.** CVD is an economical flex hose with good chemical resistance for FUMES. Excellent choice for applications involving fume removal and satisfying many industrial chemical requirements.



**Construction:** Polyvinyl chloride (PVC) chemical resistance material with a reinforced spring steel wire helix.

**Color:** Blue

**Standard Length:** 25 ft. or 12.5 ft. for \$10 cut charge

**Temp. Range:** -20°F to 180°F

Dia.	Part No.
3"	03CVD-B
4"	04CVD-B
5"	05CVD-B
6"	06CVD-B
8"	08CVD-B
10"	10CVD-B

## Many Other Flexible Hoses In Stock



We stock a variety of flexible hoses. Contact us at 800-367-3828 or [www.airhand.com](http://www.airhand.com) for more details.

**Current Pricing**  
**[www.airhand.com](http://www.airhand.com)**

**Call to Order 203.389.9595 29**

# Flexible Hose - Abrasion Resistance

## Lightweight Abrasion Resistance U20

Lightweight with good flexibility and compressibility, U20 has nearly all the abrasion and environmental resistance as our U30. Ideal for Oil Mist applications. U20 is constructed of 20-MIL thick urethane. Recommended for Vertical Panel Saw, and Edge Bander.



**Construction:** 20-MIL polyurethane reinforced with a spring steel wire helix.  
**Color:** Transparent  
**Standard Lengths:** 10 ft. & 25 ft., (10" 12.5 ft. & 25 ft. only)  
**Temp. Range:** -65°F to 200°F

Dia.	Part No.
3"	03U20-T
4"	04U20-T
5"	05U20-T
6"	06U20-T
8"	08U20-T
10"	10U20-T

## Superior Abrasion Resistance U30

Heavy Duty Urethane U30 is ideal for traversing machinery such as CNC routers used in woodworking, plastics & solid surface dust collection. Additional uses include Shapers, Planers, Moulders, and Leaf collection. U30 has a high tear strength & superior abrasion resistance. U30 is constructed of 30-MIL thick urethane.



**Construction:** 30-MIL polyurethane reinforced with a spring steel wire helix.  
**Color:** Clear  
**Standard Lengths:** 5 ft., 15 ft. & 25 ft.  
**Temp. Range:** -65°F to 200°F

Dia.	Part No.
3"	03U30-C
4"	04U30-C
5"	05U30-C
6"	06U30-C
*8"	08U30-C
*10"	10U30-C
*12"	12U30-C

\*Additional Shipping Costs Apply.

## Ultimate Abrasion Resistance U45

The Ultimate Puncture Resistant Urethane U45 is preferred when used for extreme conditions in leaf collection and street sweeping, broken glass, wood chips or any highly abrasive material. Ideal for heavy-duty municipal/commercial vacuuming. U45 will not collapse, twist or kink within recommended positive or negative working pressures. U45 is constructed of 45-MIL thick urethane. Allow 4-10 working days for fabrication.



**Construction:** 45-MIL polyurethane reinforced with a spring steel helix.  
**Color:** Clear or Translucent Blue depending on availability.  
**Standard Length:** 25 ft. or 12.5 ft. for \$10 cut charge.  
**Temp. Range:** -65°F to 200°F

Dia.	Part No.
*6"	06U45
*8"	08U45
*10"	10U45
*12"	12U45

\*Additional Shipping Costs Apply.



## Lightweight Antistatic Flexible Hose U20

U20-AS antistatic, lightweight, highly flexible, compressible (3:1), abrasion resistant, microbe resistant and flame retardant flexible hose. Lighter weight, lighter duty version of the U30-AS. Flame-retardant according to DIN 4102-B1. Permanently antistatic wall: electrical and surface resistance <10<sup>9</sup> Ω



**Construction:** 20-MIL (.020) approx. permanently anti-static ester-polyurethane with a spring steel wire helix firmly embedded in wall.

**Color:** Clear

**Standard Length:** 25 ft. or 12.5 ft. for \$10 cutting charge

**Temp. Range:** -40°F to 195°F

Dia.	Part No.
2"	02U20-AS
3"	03U20-AS
4"	04U20-AS
5"	05U20-AS
6"	06U20-AS
8"	08U20-AS
10"	10U20-AS
12"	12U20-AS

## Antistatic Flexible Hose U30

U30-AS antistatic, polyurethane, medium-duty highly abrasion resistant, microbe resistant & flame retardant flexible hose ideal for a variety of applications. Industries/applications include combustible dust, woodworking, abrasive powder, bulk material, offset printing, UV dryer, IR dryer, textile, clean room ventilation. Flame-retardant according to DIN 4102-B1. Permanently antistatic wall: electrical and surface resistance <10<sup>9</sup> Ω



**Construction:** 30-MIL approx. permanently anti-static ester-polyurethane with a spring steel wire helix firmly embedded in wall.

**Color:** Clear

**Standard Length:** 25 ft. or 12.5 ft. for \$10 cutting charge

**Temp. Range:** -40°F to 195°F

Dia.	Part No.
2"	02U30-AS
3"	03U30-AS
4"	04U30-AS
5"	05U30-AS
6"	06U30-AS
8"	08U30-AS
120mm	120U30-AS
140mm	140U30-AS
160mm	160U30-AS

## Static Dissipative U30-SDC

U30-SDC is the answer for those who want to minimize the static build up from the friction caused by the material traveling through the hose. It is a flexible thermoplastic urethane hose which is an ideal choice for highly abrasive applications such as pellets, or dust collection. Recommended for fine powders found in woodworking, solid surface, plastics, toner dust, graphite, fertilizer.



**Construction:** 30-MIL thermoplastic static dissipative urethane with a spring steel wire helix.

**Color:** Clear

**Standard Length:** 25 ft. or 12.5 ft. for \$10 cutting charge

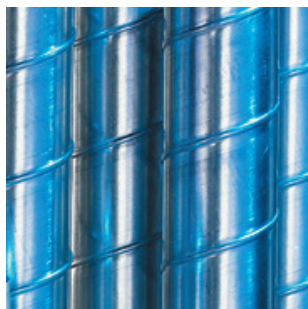
**Temp. Range:** -65°F to 200°F

Dia.	Part No.
3"	03U30-SDC
4"	04U30-SDC
5"	05U30-SDC
6"	06U30-SDC
*8"	08U30-SDC

\*Additional Shipping Costs Apply.

Both static dissipative and antistatic materials reduce the risk of producing a charge, but only a static dissipative material protects against existing charges as well.

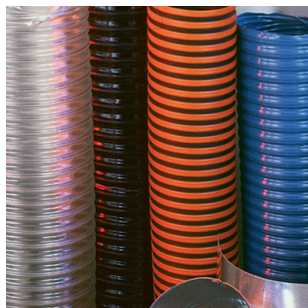




## Spiral Pipe

Our spiral pipe is commonly used for dust collection, fume collection and HVAC.

This pipe is **up to 20% stronger than smooth pipe systems** of the same gauge, due to the spiral reinforcement. Make sure you have the right pipe for the job.



## Flexible Hose

Air Handling Systems **stocks over 20 different types of hoses** for various applications including dust, fume and chip collection.

Looking for a product you can't find? Do you have a unique application or an OEM need? **We have a solution.**



## Fittings

Stronger than most competitors products all of our standard fittings are 20 ga. **galvanized, fully welded and air tight** to eliminate leakage and give proper support to **last a lifetime.**



## Ready to Ship

Our staff makes sure your shipment goes with the **most economical carrier** within the USA or globally. We factor in the overall size of your order and prepare it efficiently. **And, we honor expedited requests.**

2021 V1



Visit us at 5 Lunar Dr. Woodbridge, CT 06525

Due to market changes and fluctuations beyond our control, specifications & pricing subject to change without notice. Buyers subject to terms and conditions of sale. Copyright Air Handling Systems. 4/21 - 40

Call to order today!  
**203-389-9595**

Know what you need?  
**Order online at [www.airhand.com](http://www.airhand.com)**

