

The world's [**FASTEST**] ducting

866-455-2130

www.ductingsystems.com

ID: 030112

QUICK-FIT

Technical Manual

- Easy & fast to install
- Easy Clean-Outs
- Leak-tight laser welded seams
- Re-useable

**Cuts installation and downtime
by more than 45%**



Made in the USA

REGISTERED
ISO
9001:2008
14001:2004



QUICK-FIT

THE WORLD'S FASTEST DUCTING

GENERAL ENGINEERING SPECIFICATION FOR NORDFAB QUICK FIT DUCTING

MANUFACTURING PROFILE:

Nordfab Quick-Fit Ducting is manufactured in Thomasville, NC and Sparks, NV. Nordfab duct is a clamp-together design using a rolled edge design with a single lever clamp. The ducting and clamps are made of similar materials. During manufacturing the duct material sheet blanks, which are five feet long, are rolled and fused together with a laser weld process along the longitudinal seam. Each pipe is checked with a light apparatus for any welding flaws or gaps. The rolled edge is then die-formed after inspection by rolling each end of the pipe simultaneously. The laser weld prevents any gaps in the rolled edge from forming. This rolled end is used for clamping components together as well as offering reinforcement every five feet. All clamps contain a standard gasket made of Nitrile which is suitable for most applications, including oil mist, as long as high temperatures are not an issue. An ePTFE gasket option is available for food grade and high temp applications. Nordfab Quick-Fit Ducting is available in 1" increments sized 3" to 24" diameter.

Engineering Specification:

1. Ducting shall consist of the following:
 - a. Galvanized: ASTM A527 with a G90 rating
 - i. Temp rating is 500° F with no breakdown of zinc - Zinc melting point is 740° F
 - b. 304SS: Finish meets ASTM A240
 - i. Temp rating is 1,100° F
 - c. 316SS: Finish meets ASTM A240
 - i. Temp rating is 1,100° F

2. Ducting manufacturing techniques:
 - a. Diameters 3" - 24" pipe, adjustable nipples, and collars attached to other components will have one or both ends die formed-rolled to provide a uniform edge around the circumference of the rolled end. The pipe and adjustable nipples shall have the longitudinal seam laser welded to allow for a tighter slip joint and reduce system pressure losses. All laser welded seams will undergo a light test to ensure there are no voids or imperfections in the system. Pipe lengths using laser welded seams will not exceed a nominal 60" length. The rolled edges provide structural support at 5' intervals or less and can be interpreted as a stiffener where SMACNA specifications are required. An adjustable nipple is used for adjustment during the install process. Pipe is cut to appropriate length and the adjustable nipple secures the pipe for install.

 - b. Pipe and other components larger than 24" shall utilize either an angle flange or flat flange attached loosely and retained in place using a 3/8" vanstone lip. The pipe shall have a compressed-interlocking lap form seam and not exceed 78" in length. The angle or flat flanges provide structural support at 6'-6" intervals or less and are considered as stiffeners where SMACNA specifications are required.

 - c. There will be times when certain components will be air direction sensitive. These components will have an arrow sticker attached showing the proper flow direction.

 - d. All ducting and its components shall have been tested to 80" WG using the following gauged reference:
 - i. 3" will use 18ga material thickness
 - ii. 4" through 12" will use 22ga material thickness
 - iii. 13" through 29" will use 20ga material thickness
 - iv. 30" and above will use 18ga material thickness

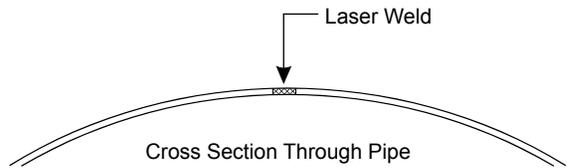
Engineering Specification (cont.):



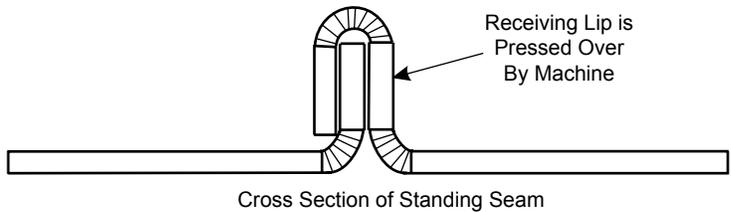
QUICK-FIT

EXAMPLES OF CONSTRUCTION METHODS

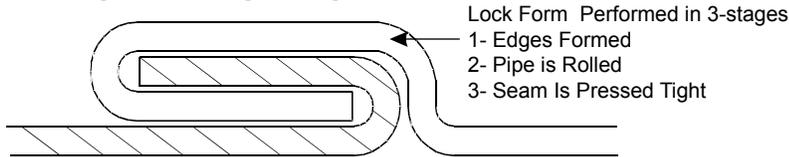
- 1. LONGITUDINAL LASER WELD SEAM FOR "Q-F" PIPE
 * Applies to all straight duct up to 24", adapters, nipples, collars, and most elbows.
 All Reno made elbows are supplied with standard seam - see figure 5 below



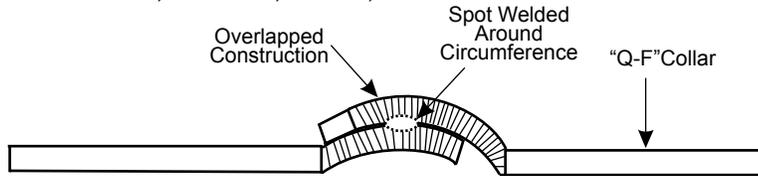
- 2. STANDING SEAM
 * Applied to segmented elbows, offsets and end caps.



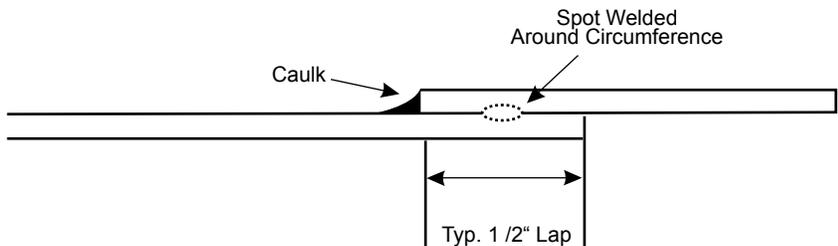
- 3. LONGITUDINAL LOCK FORM SEAM ON FLANGE PIPE
 * Applies to all straight duct flanged lengths.



- 4. OVERLAPPED, SPOT WELDED SEAM CONSTRUCTION AND QF COLLAR CONNECTION
 * Applies to all branches, reducers, in-cuts, etc.



- 5. STANDARD SEAM JOINING METHOD ON HOODS, BOXES, TRANSITIONS, AND SPECIALTY ITEMS
 * Lapped, spot welded, and caulked.





QUICK-FIT

THE WORLD'S FASTEST DUCTING

ELBOWS

- A) Standard elbows will have a centerline radii of 1 x dia & 1.5 x dia as specified in catalog .Longer radius elbows are available upon request.
- B) Standard elbows 3" to 7" are pressed formed, 8" and larger are gored construction with a lock form standing seam every 15 degrees. Gore type elbows are produced as follows:

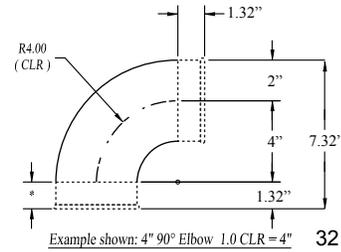
<u>ANGLE IN DEGREES</u>	<u>NUMBER OF GORES</u>
15°	(2) 7.5° + 2 tangents
30°	(1) 15° + (2) 7.5° + 2 tangents
45°	(2) 15° + (2) 7.5° + 2 tangents
60°	(3) 15° + (2) 7.5° + 2 tangents
90°	(5) 15° + (2) 7.5° + 2 tangents

ELBOW STANDARD AND UPGRADES FOR QF AND ANGLE FLANGE

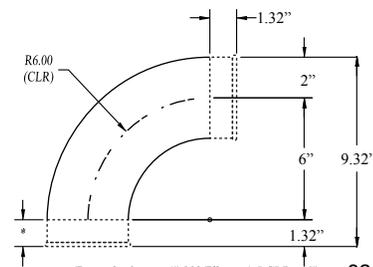
NOTE: TUBED ELBOWS ARE AVAILABLE @ 14 GA EXCEPT 3-4" GAL @ 16GA

ELBOW DIAMETER	GALV STD GAUGE	SS STD GAUGE	ONE GAUGE UPGRADE	MAX HEAVY WALL STYLE ELBOW
3"	24	14 TUBED	N/A	N/A
4"	24	14 TUBED	N/A	N/A
5"	24	14 TUBED	N/A	N/A
6"	24	14 TUBED	N/A	N/A
7"	24	22	18	16
8"	22	22	18	16
9"	22	22	18	16
10"	22	22	18	16
11"	22	22	18	16
12"	22	22	18	16
13"	20	20	18	16
14"	20	20	18	16
15"	20	20	18	16
16"	20	20	18	16
17"	20	20	18	16
18"	20	20	18	16
19"	20	20	18	16
20"	20	20	18	16
21"	20	20	18	16
22"	20	20	18	16
23"	20	20	18	16
24"	20	20	18	16
26"	18	18	16	16
28"	18	18	16	16
30"	18	18	16	16
32"	18	18	16	16
34"	16	16	16	16
36"	16	16	16	16
38"	16	16	16	16
40"	16	16	16	16

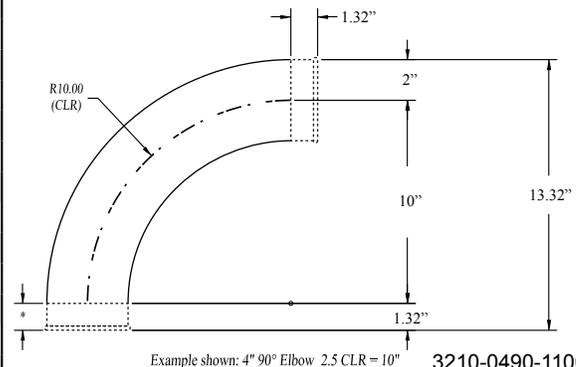
4" GALV. ELBOW CLR EXAMPLE



Example shown: 4" 90° Elbow 1.0 CLR = 4" 3210-0490-104000



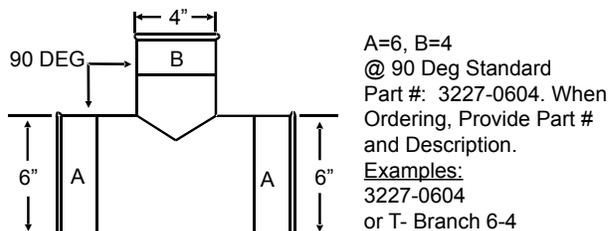
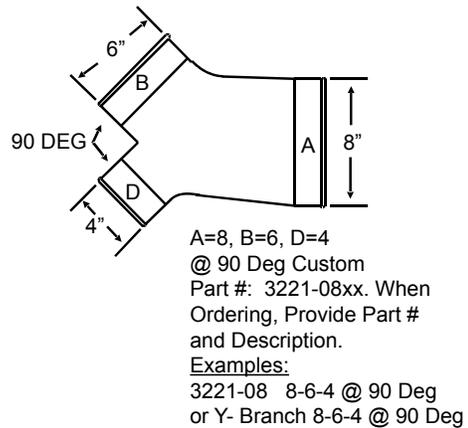
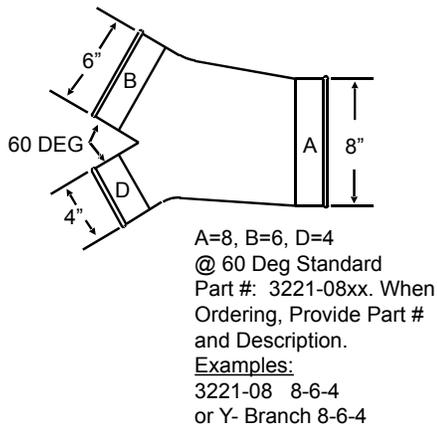
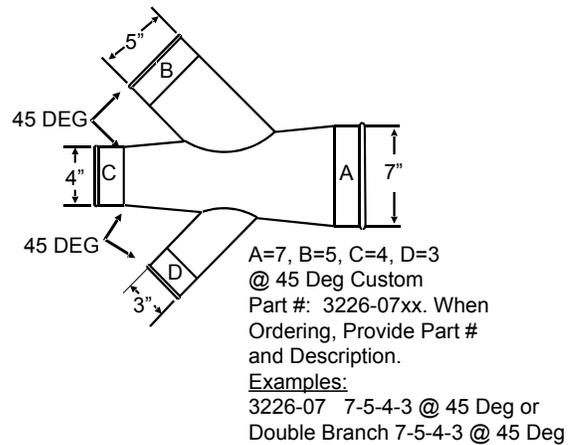
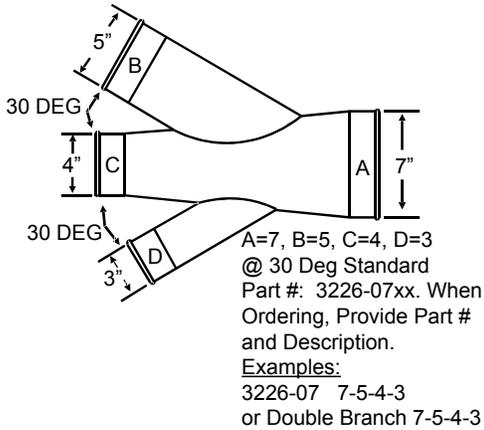
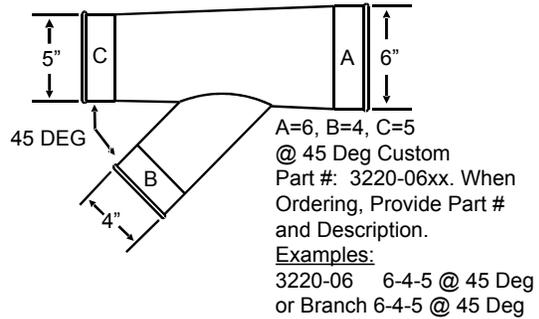
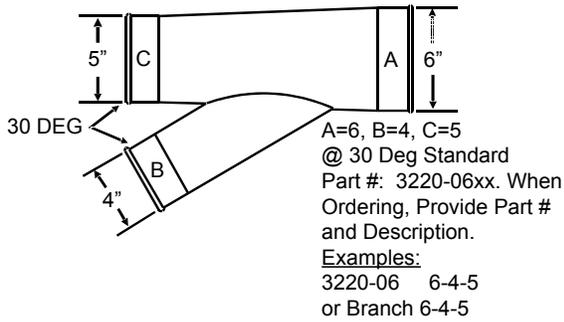
Example shown: 4" 90° Elbow 1.5 CLR = 6" 3210-0490-106000



Example shown: 4" 90° Elbow 2.5 CLR = 10" 3210-0490-110000

NOTE: Overall height calculation only works with 90° elbows.

BRANCH STYLES

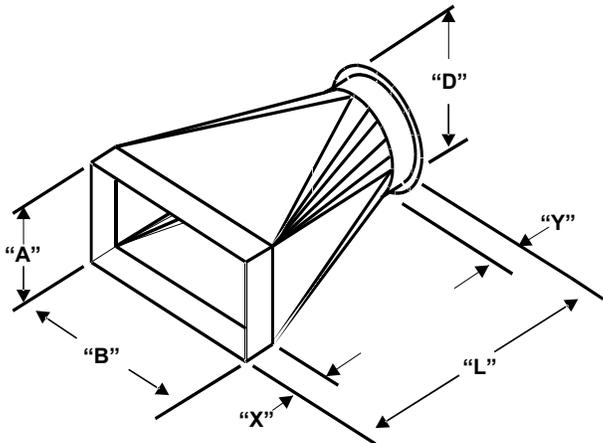




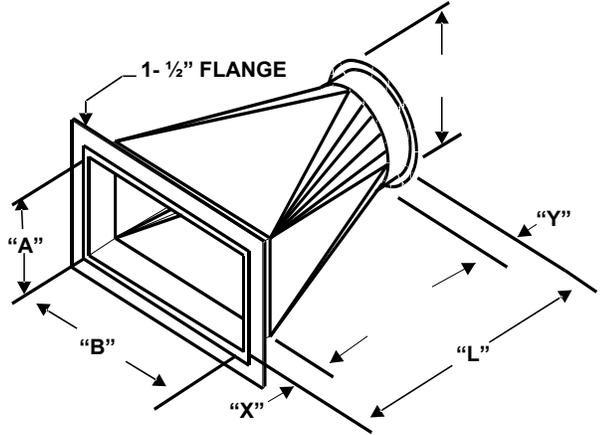
QUICK-FIT

THE WORLD'S FASTEST DUCTING

TRANSITION STYLES



STYLE #1



STYLE #2

Built to your specifications. Please list all required dimensions and details.

- Specify Rectangle End: Angle Flange Flat Flange Raw End I.D. Raw End O.D.
- Flange Type: Angle Flange Flat Flange Sheet Metal
- Specify Round End: QF Angle Flange Flat Flange Hose Conn.
- Raw I.D. Or O.D.

NOTE: If no hole pattern is supplied for flanges, they will be supplied "Blank" to be field drilled.
 "L" = to the greater of B or D **NOTE: Minimum L for Sq to Rd is B x 0.75**

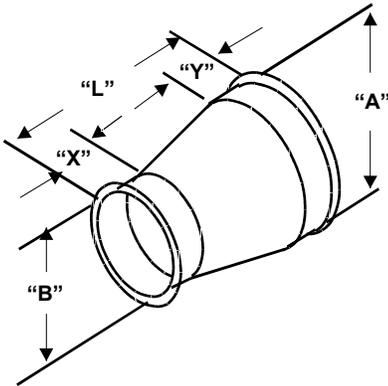
Item #	Qty.	"D"	"A"	"B"	"X" Std 2"	"Y" Std 2"	"L"	Gauge	Flange Material	Fig Dwg	Special Notes



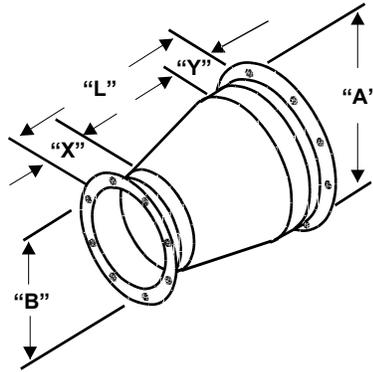
QUICK-FIT

THE WORLD'S FASTEST DUCTING

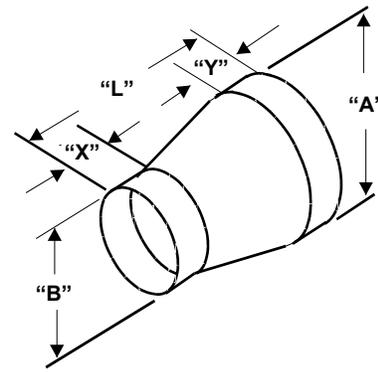
REDUCER STYLES



"Q-F STYLE"



"FLANGED STYLE"



"RAW END STYLE"

A) Reducers are produced by the following formula:

"QF" LENGTH = (A-B) + 6" [7" MIN]

"FL" LENGTH = (A-B) + 8" [9" MIN]

B) Standard material gauges as follows: (Heavier gauges available contact NORDFAB)

DIA.	GALV. GAUGE	SS GAUGE
4" - 12"	22	22
14" - 22"	20	20

NOTE: Any combination of the above style are available upon request. Please specify all the required dimensions and all reducer end configurations (Raw ID, Raw OD Style, QF Style, Flange Style, Etc.).

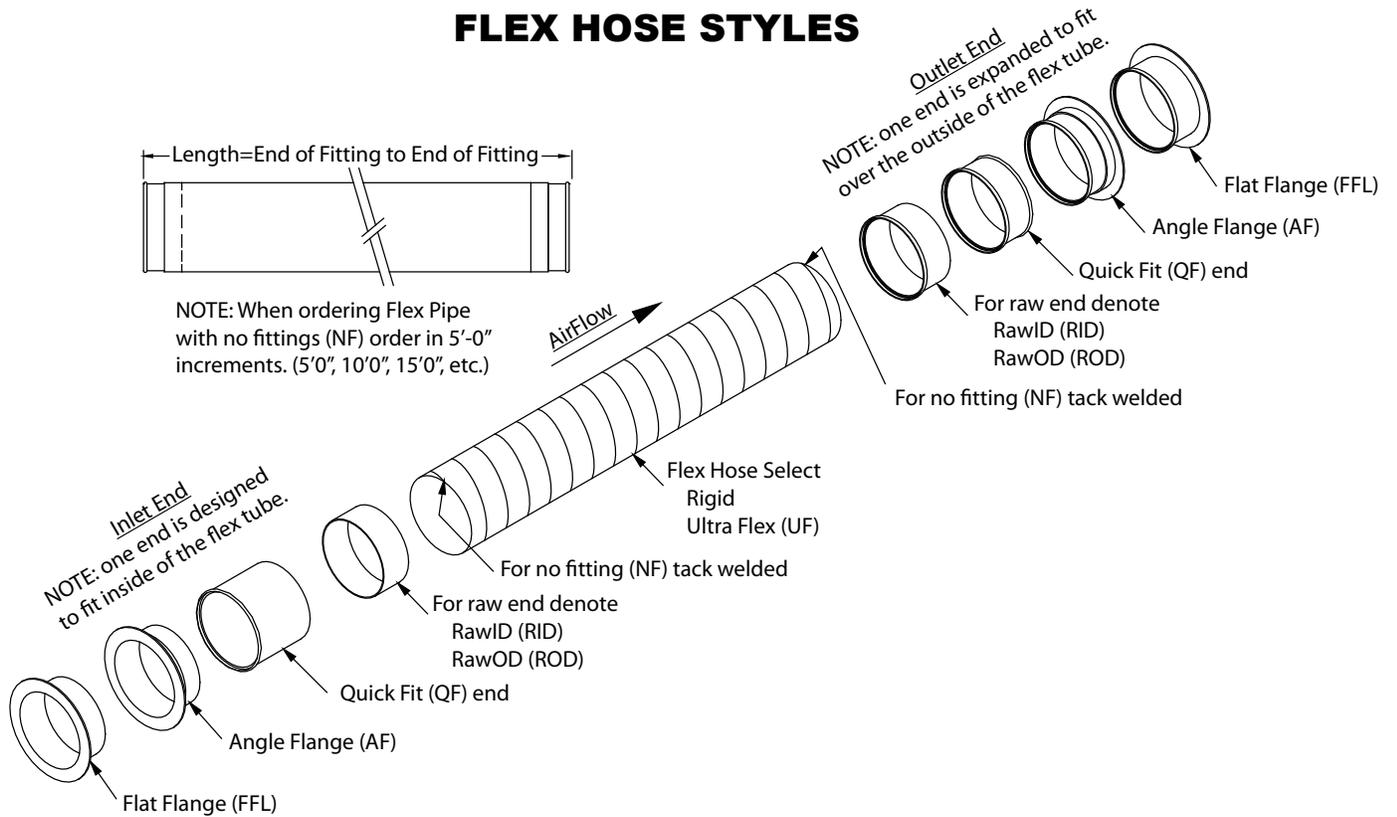
Item#	Qty	"A"	Style "Q-F" "Flange" "Raw"	"B"	Style "Q-F" "Flange" "Raw"	"L" (A-B+6)	"X" STD-2"	"Y" STD-2"	Part Gauge	Flange Material	Fig Dwg	Special Notes



QUICK-FIT

THE WORLD'S FASTEST DUCTING

FLEX HOSE STYLES



NOTES:

1. If no hole pattern is supplied for flanges, you will receive blank flanges (flanges without holes).
2. Any combination of the above style are available upon request. Please specify the inlet diameter, flex hose diameter, and outlet diameter.
3. Note the length is based on the flex hose being stretched out before cutting (not compressed).
4. Special Notes: SP=Spot Weld (Std), ST=Stitch Weld, SO=Solid Weld, BY=Buff Yes, BN=Buff No (Std), note other requirements.
5. Rigid and Ultra Flex hose is produced in 5' lengths in diameters 7" and above.

Item #	Inlet Dia.	Inlet End Style (QF, NF, AF, FFL, RID, ROD)	Flex Dia.	Flex Hose (RF, UF)	Outlet Dia.	Outlet End Style	Length (in.)	Material (G, SS)	Drawing (Y/N)	Special Notes



QUICK-FIT

THE WORLD'S FASTEST DUCTING

RUBBER FLEXIBLE HOSE

- Wide Temperature Range
- Versatility
- Better UV, Moisture and Weathering Resistance
- Will Not Set to The Shape of the Box When Packed
- Superior Chemical Resistance
- Better Abrasion Resistance
- Outstanding Flex Resistance
- Better Looking Product
- No Cement
- Air Tight

T-7



Size Range (in).....stock 2" to 24"
 Standard Length (ft)..... 25', 50'
 Standard Colors..... black
 Temp Range (°F)-60° to 275°

- Medium weight thermoplastic rubber hose reinforced with a spring steel wire helix
- Good abrasion resistance
- Designed for applications with wide temperature ranges
- Great moisture & UV resistance
- Excellent chemical resistance
- Smooth interior assures minimal friction loss & efficient air flow
- Wall Thickness = .030"
- Available in metric sizes, consult sales team on pricing & minimums



R-4



Size Range (in).....stock 2" to 24"
 Standard Length (ft)..... 10', 25', 50'
 Standard Colors..... clear
 Temp Range (°F) 20° to 160°

- Medium weight PVC hose reinforced with a spring steel wire helix
- Good for positive pressure applications
- Great compressibility
- Construction allows for value packaging by reducing the box size, reducing warehouse space & shipping costs
- Ideal for dust and woodworking applications
- Good chemical & moisture resistance
- Manufactured with FDA acceptable materials
- Wall Thickness = .028"



FLX-THANE® MD



Size Range (in).....stock 2" to 24"
 Standard Length (ft)..... 25', 50'
 Standard Colors..... black, clear
 Temp Range (°F)-60° to 225°

- Medium weight polyurethane hose reinforced with a bronze coated spring steel wire helix
- Good compressibility
- Great abrasion resistance & high tear strength
- Superior chemical resistance
- Excellent flexibility
- Designed for applications with wide temperature ranges
- Very good low temperature flexibility
- Clear is manufactured with FDA acceptable materials
- Available in metric sizes, consult sales team on pricing & minimums
- Wall Thickness = .030"

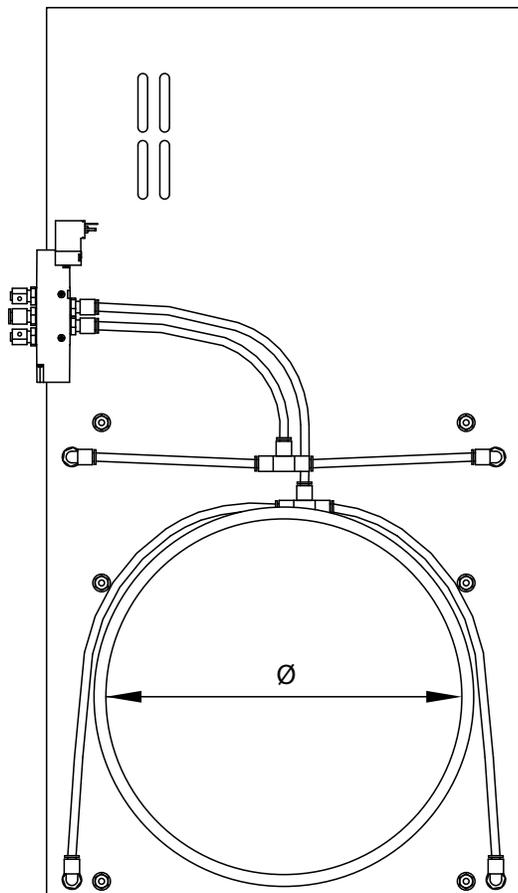




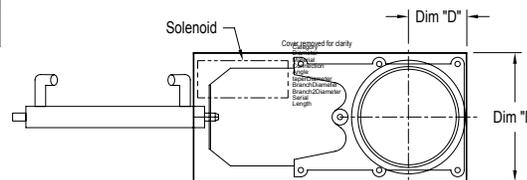
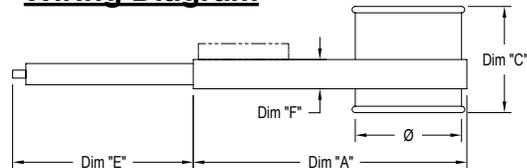
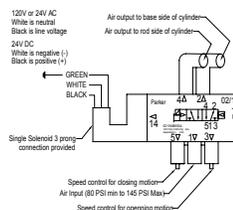
QUICK-FIT

THE WORLD'S FASTEST DUCTING

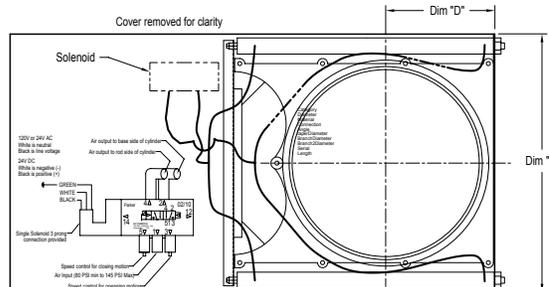
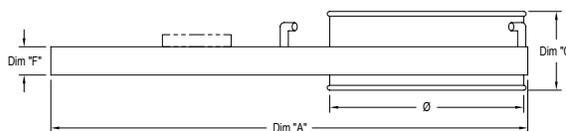
SD AUTOMATIC BLAST GATE



Wiring Diagram



Single Cylinder



Double Cylinder

DESCRIPTION:

Automatic standard duty blast gates operated by double-acting compressed air cylinders. The SD version is a less expensive alternative to the NFES gate due to omission of the seals. Cylinders are controlled by electrically-connecting solenoid to machines or remote switch.

APPLICATIONS:

Gates are used as energy-saving devices for industrial dust extraction where extraction is not needed on a constant basis and where manual control needs to be eliminated.

AVAILABILITY:

Material: GALVANIZED
 Sizes in inch: 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24



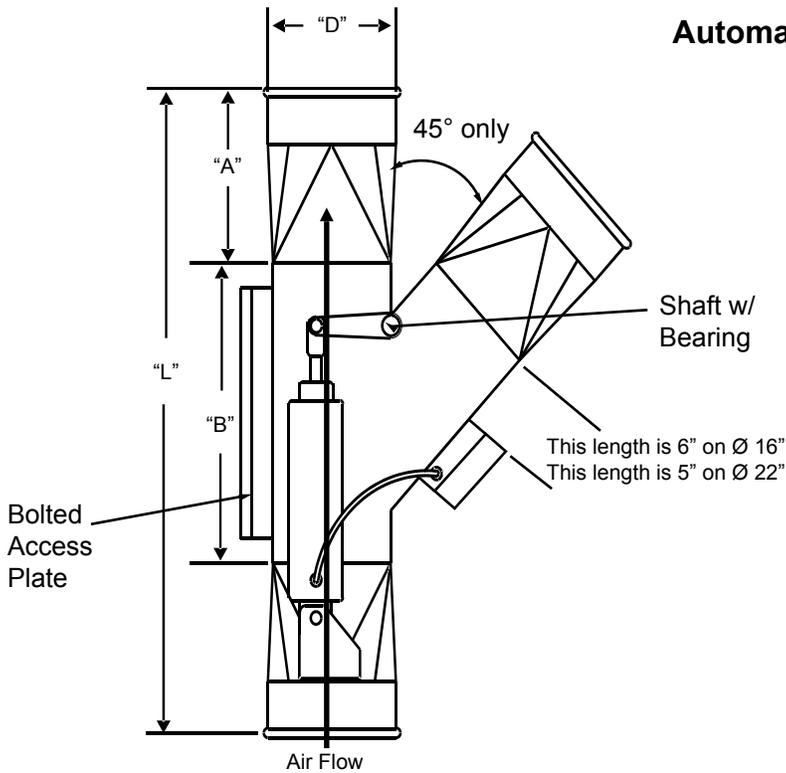
Part numbers: 3242-XX00 (where XX is the diameter)
 Standard Requirements: 120 Volt power source and 80 psi minimum air pressure horizontally mounted. 240, 24 and 12 volt AC. 24 and 12 volt DC models also available upon request.



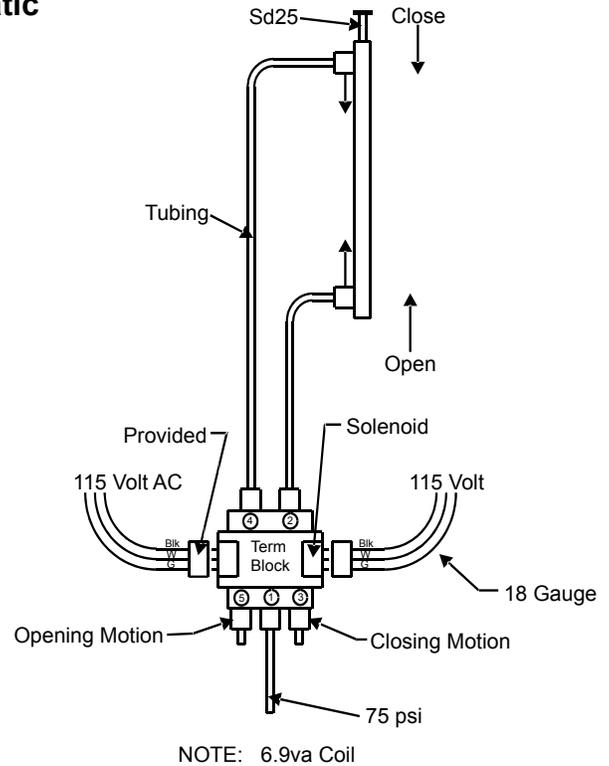
QUICK-FIT

THE WORLD'S FASTEST DUCTING

DIVERTER VALVE



Automatic



DESCRIPTION:

Highly efficient, economical method of diverting flow of material or air. Designed with Q-F or flanged, manual, or air operated.

APPLICATIONS:

Diverter valves are used for diverting material or air to one of two possible directions at a time.

AVAILABILITY:

Material: BLACK METAL or STAINLESS STEEL 3/16" thick
 Sizes in inch: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 24
 Larger sizes available upon request.

Please NOTE: 45 lateral angle only

Part numbers: 3235-XX00 for manual (where XX is the diameter)
 3236-XX00 for automatic, PLUS read "Special".

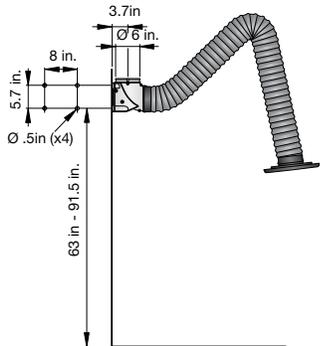
Standard Requirements: 120 Volt power source and 75 psi minimum air pressure.
 240, 24 and 12 volt AC as well as 24 and 12 volt DC models are available upon request.



QUICK-FIT

THE WORLD'S FASTEST DUCTING

- The arm is flexible in all directions and simple to position
- Designed for wall mounting with integrated wall bracket/90° bend
- Can be rotated 180°
- Can be equipped with a damper placed in the bend as an accessory
- The hood can be tilted in all directions



Nordfab standard extraction arm is specially designed for working environments with fumes, vapors or non-explosive dust, where the demands for higher airflows and temperatures are moderate. Typical workplaces can be welding schools and different types of applications in light production. The applications can be welding, grinding, or other industrial processes where an easily positioned arm is required. The arm is available in two lengths, 2 and 3 m, and equipped with a high efficiency extraction hood.



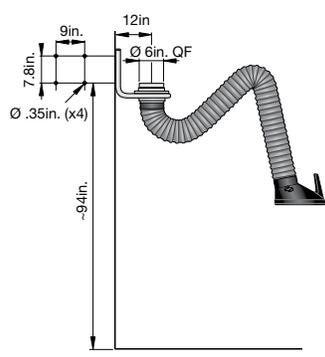
Description	Working range, ft	Airflow, CFM	Connection Ø, in	Max. fume temperature, °F	Noise level at hood, dB(A)	Weight, lbs
Standard arm, 6.5 ft	6.5	353-530	6	158	67	24
Standard arm, 10 ft	10	353-530	6	158	67	29

Extraction arm Original



It is specially designed for working environments with fumes, vapors or non-explosive dust. Typical workplaces are the metal fabrication industry or other types of industries where extraction is needed. The applications can be welding, grinding, or other industrial processes where an easily positioned arm is required. The product is equipped with a damper in the hood as standard.

- A swivel allows the product to rotate 360°.
- The arm is flexible in all directions and simple to position.
- The product is equipped with a damper in the hood as standard.
- The hood on all models can be tilted in all directions.



Description	Working range, ft	Airflow, CFM	Connection Ø, in	Max. fume temperature, °F	Noise level at hood, dB(A)	Weight, lbs
Original arm 6.5 ft	6.5	412-589	6	158	63-75	24
Original arm 10 ft	10	412-589	6	158	63-75	28
Original arm 13 ft, vertical	13	412-589	6	158	63-75	35
Original arm 13 ft, horizontal	13	412-589	6	158	63-75	35



QUICK-FIT

THE WORLD'S FASTEST DUCTING

Application:

Material Types: Dry Dusts (not designed for combustible gas and vapors and hybrid mixtures of these substances.)

Kst Value of Dust < 200 Bar-M / Sec
NOT SUITABLE for greater than ST1 dust.

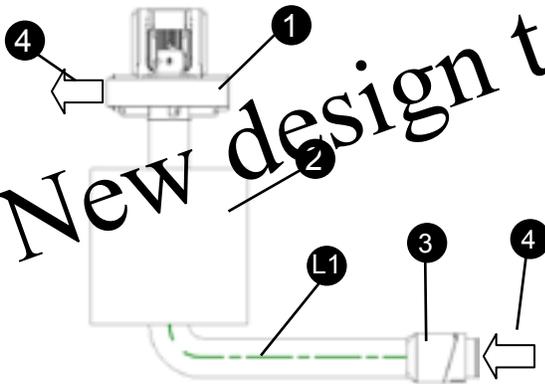
Transport Medium: Standard Air

Air Velocity In the Device: > than the minimum transport velocity of the conveyed dust.

Design conditions for ductwork and Air Material Separator (Dust Collector)

EIF Designed for Max. Reduced Pressure P _{red}	
Size	P _{red}
CARZ 6"-22"	0.5 bar
CARZ 24"-40" AF	0.3 bar

Installation:



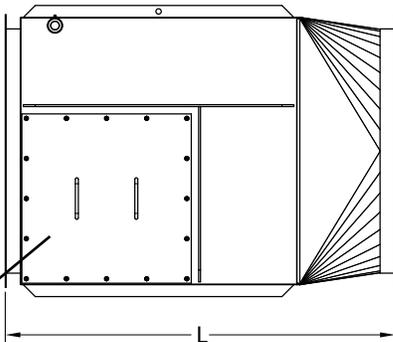
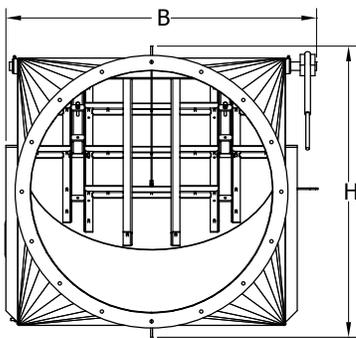
New design to be released in Q2

- 1 Fan
- 2 Vessel (filter, container, silo, ect.)
- 3 CARZ Explosion Isolation Flap
- 4 Normal process flow
- L1 Installation distance from vessel, where explosion could occur

Min. Distance Between EIF and AMS		
Size	Min A	Max A
CARZ 6"-20"	7'	16'
CARZ 24" - 40" AF	16'	28'

KST verification form required / Lead time is 25 working days after receipt.

Dimensions:



Inspection door 22" and larger

Actual diameter	Length (L)	Body (B)	Weight (lbs)
6"	19 1/4"	16 7/8"	29
7"	20 1/8"	17 5/8"	35
8"	21"	18 7/16"	42
10"	23"	20 7/16"	44
12"	25 1/2"	23"	60
14"	27"	24 3/8"	73
16"	29"	26 3/8"	93
18"	31"	28 3/8"	99
20"	33"	30 1/4"	108
22"	42 1/4"	32"	176
24" AF	44 7/16"	34 3/4"	229
28" AF	48"	38"	267
32" AF	51 5/8"	41 1/2"	309
36" AF	55 1/2"	45 3/8"	353
40" AF	59 1/2"	49 3/8"	397

Above dimension chart is for general information. Please consult factory for dimensions based on the connection options



QUICK-FIT

THE WORLD'S FASTEST DUCTING

INLINE SILENCER (cont.)

"A"	"OD"	PART NO.	ENDS	LENGTH (C)	GAUGE HOUSING	WEIGHT (GALV)
3"	12"	3106-0300	QF	28"	20	10.00
4"	12"	3106-0400	QF	28"	20	21.00
5"	13"	3106-0500	QF	28"	20	35.00
6"	14"	3106-0600	QF	30"	20	43.00
7"	15"	3106-0700	QF	30"	20	54.00
8"	16"	3106-0800	QF	35"	20	65.00
9"	17"	3106-0900	QF	40"	20	76.00
10"	18"	3106-1000	QF	48"	20	89.00
12"	20"	3106-1200	QF	54"	20	104.00
14"	22"	3106-1400	QF	60"	20	122.00
16"	24"	3106-1600	QF	64"	20	176.00
18"	26"	3106-1800	QF	68"	20	225.00
20"	28"	3106-2000	QF	72"	20	265.00
22"	30"	3106-2200	QF	76"	18	310.00
24"	32"	3106-2400	QF	80"	18	406.00
26"	34"	3106-2600	FLANGE	80"	18	546.00
28"	36"	3106-2800	FLANGE	80"	18	600.00
30"	38"	3106-3000	FLANGE	80"	18	678.00
32"	40"	3106-3200	FLANGE	80"	18	700.00
34"	42"	3106-3400	FLANGE	80"	18	770.00
36"	44"	3106-3600	FLANGE	80"	18	897.00
38"	46"	3106-3800	FLANGE	80"	18	974.00
40"	48"	3106-4000	FLANGE	80"	18	1,118.00

Material Specifications:

- Galvanized: ASTM A527 with a G-90 rating
- Perforated Tube: ASTM A653
- 304SS: Finish meets ASTM A240
- 316SS: Finish meets ASTM A240

Absorbent Material:

3-1/2" thick fiberglass stranded bats

Structural Integrity:

Outer Tube: Longitudinal seam is laser welded to 15" diameter pipe and lock formed 16" and greater

Air flow directional:

Yes - arrows are painted on product for installation.

Special Notes:

Standard QF end can be changed to RawID, RawOD, No Fitting, Hose Adapter, Flat Flange, and Angle Flange.



QUICK-FIT

THE WORLD'S FASTEST DUCTING

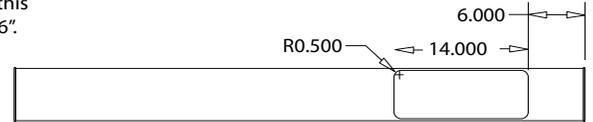
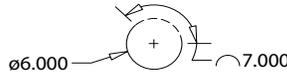
SLIDING ACCESS PANEL MIST RECYCLER



Closed position Partially Open Fully Open

SLIDING ACCESS PANEL

The 7" dimension of the opening is measured around the pipe as shown. Because of this panels are not available under 6".

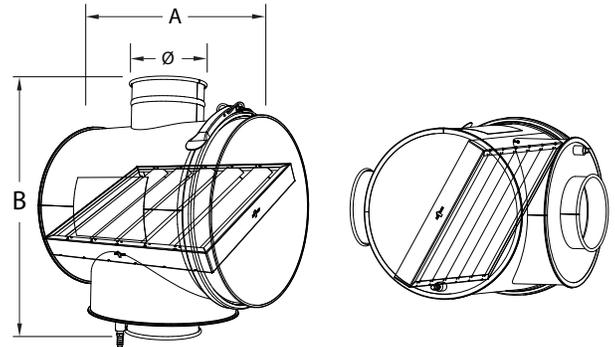


Ø	Pipe Length/Slide Length	Access Hole	Part Number
6"-8"	59.25 inches/18 Inches	7" x 14"	3103-XX00-100000
9"-24"	58.75 inches/18 Inches	7" x 14"	3103-XX00-100000

The SAP consists of a standard length of QF pipe with an access opening laser cut into it, a pre-mounted 18-inch sleeve with two clamps and two rubber o-rings that covers and allows access.

MIST RECYCLER

Ø	PART NO.	GAUGE	(A) INCH	(B) INCH	BAFFLE SIZE	WEIGHT (GALV)
3"	3192-0300	22	14.00	18.00	10" x 14"	11.10
4"	3192-0400	22	14.00	18.00	10" x 14"	11.25
5"	3192-0500	22	14.00	18.00	10" x 14"	11.45
6"	3192-0600	22	14.00	18.00	10" x 14"	11.60
7"	3192-0700	22	20.00	24.00	16" x 20"	22.70
8"	3192-0800	22	20.00	24.00	16" x 20"	22.85
9"	3192-0900	22	20.00	24.00	16" x 20"	23.10
10"	3192-1000	22	20.00	24.00	16" x 20"	23.30
11"	3192-1100	22	20.00	28.00	20" x 20"	32.65
12"	3192-1200	22	20.00	28.00	20" x 20"	32.85



DESCRIPTION:

The Nordfab Mist Recycler (MR) can extend filter media life, reduce maintenance costs and decrease issues caused by excessive fluids in the system..

APPLICATIONS:

Mist recyclers are used to extract mist particles from the air to be recycled back to the machine. The baffle acts as a system prefilter and mechanically extracts droplets and mist from the airstream. Liquid collected in the MR drains into a sump and is returned to the machine via a drain port.

AVAILABILITY:

Material: GALVANIZED OR SS304



QUICK-FIT

THE WORLD'S FASTEST DUCTING

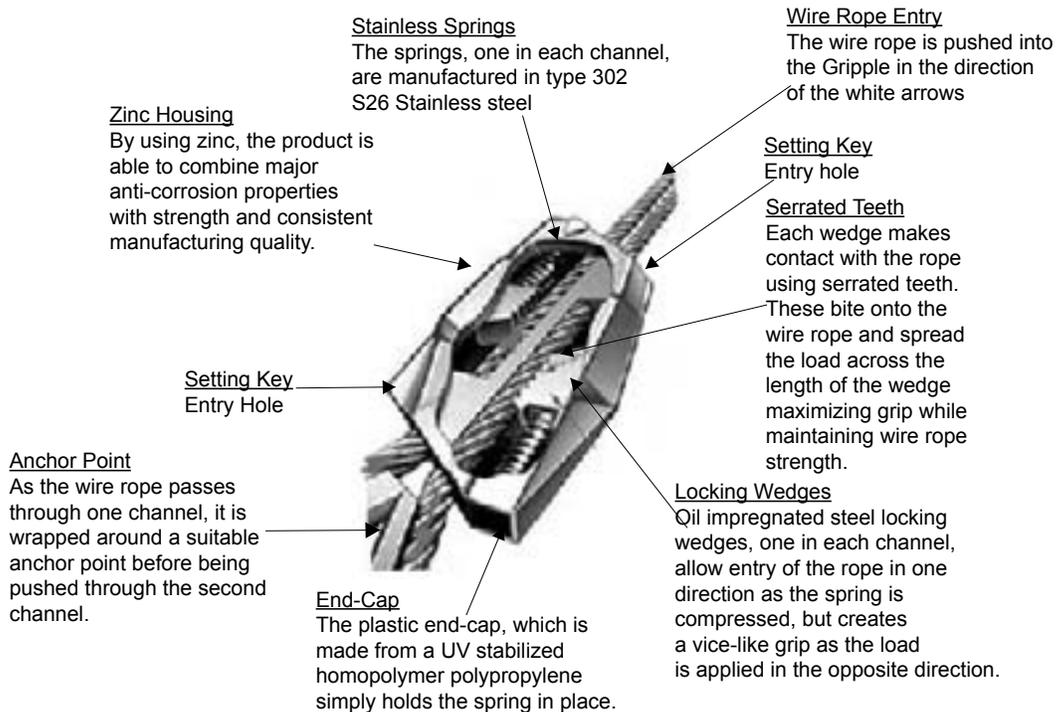
GRIPPLE HANG-FAST

Gripple Hang-Fast is a complete solution for hanging mechanical and electrical services. It comes as a ready-to-use suspension kit, with load ratings from 22lbs to 715lbs. The comprehensive range ensures that installation times are minimized and high productivity is achieved on site.

The principal element of all Gripple Hang-Fast assemblies is the Gripple Hang-Fast Grip, which is not only used to terminate the rope but is also the means by which object height can be adjusted.

Gripple Hang-Fast
 Sizes & Working Load Limits ...

ITEM #	LENGTH	WEIGHT	AVAILABILITY
3266-1500-022LBS	15'	22 LBS	IN STOCK
3266-1500-100LBS	15'	100 LBS	IN STOCK
3266-1500-200LBS	15'	200 LBS	IN STOCK
3266-1500-495LBS	15'	495 LBS	IN STOCK
3266-1500-715LBS	15'	715 LBS	IN STOCK

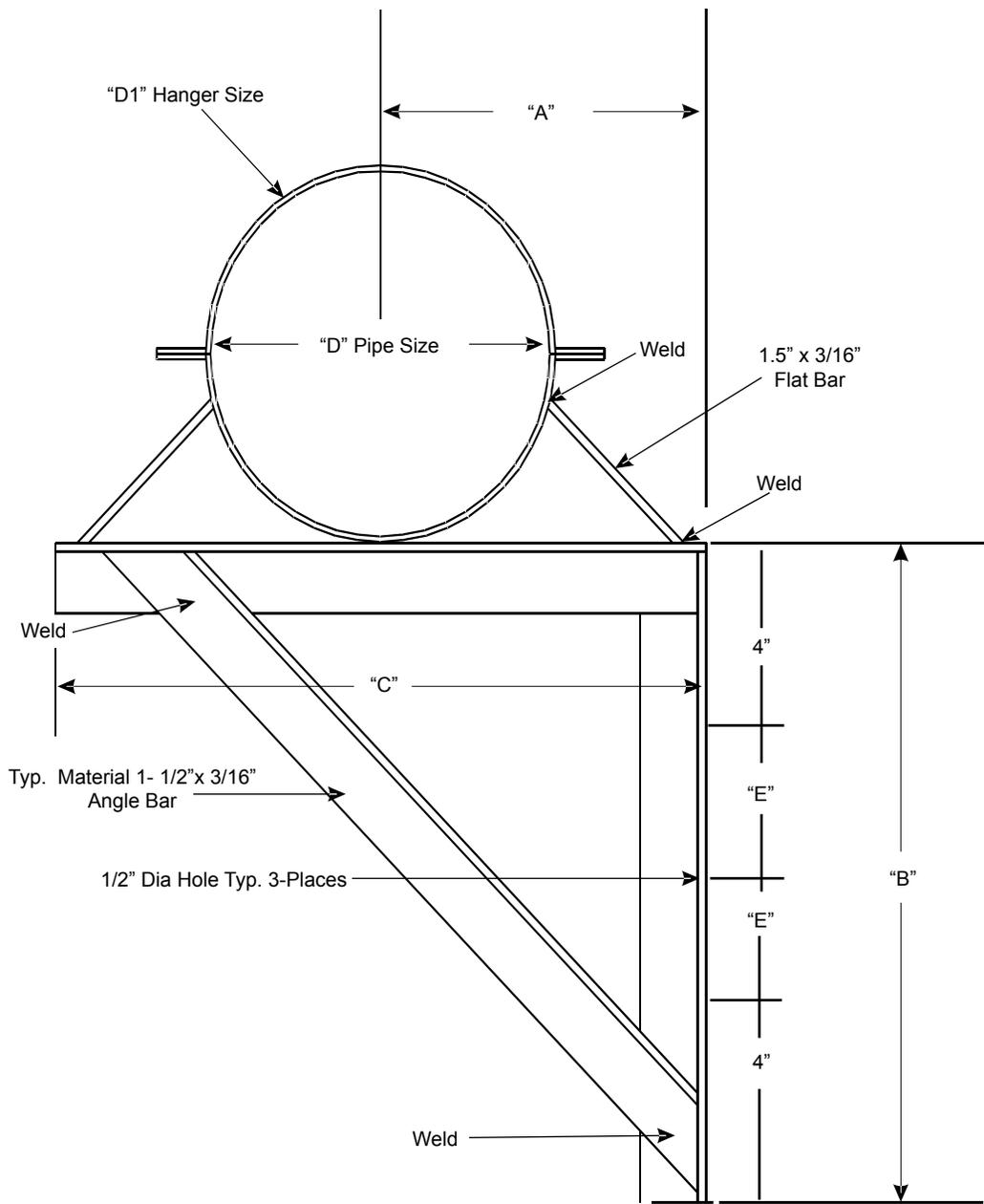




QUICK-FIT

THE WORLD'S FASTEST DUCTING

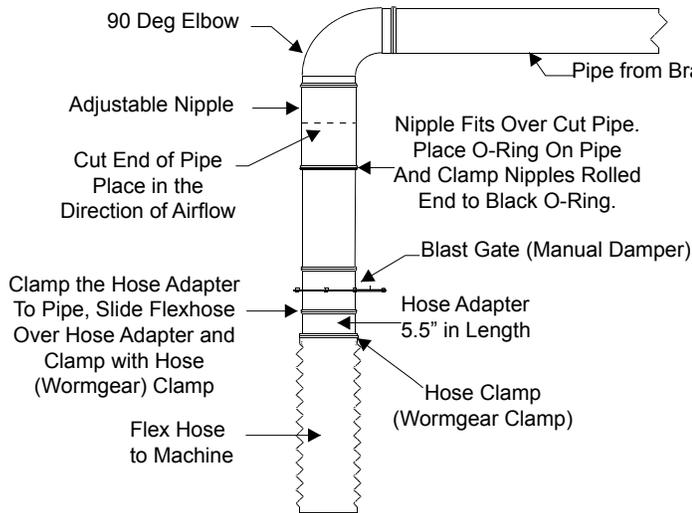
TYPICAL WALL MOUNTING BRACE



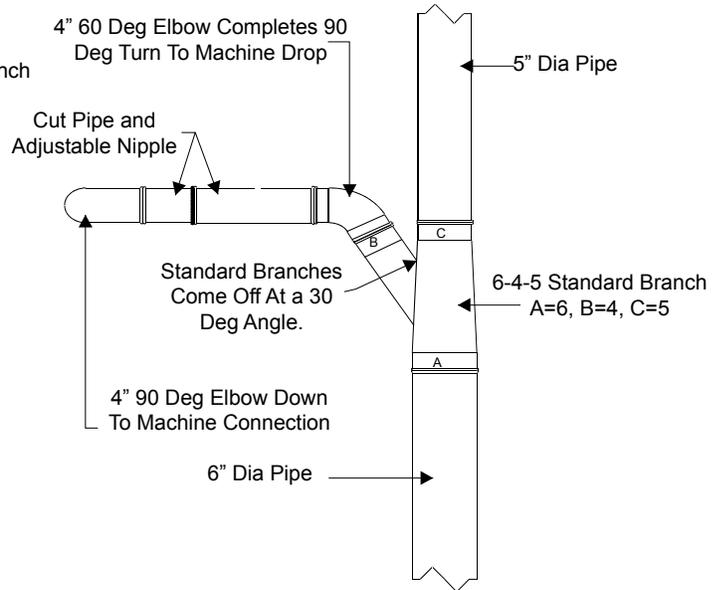
QTY	"A"	"B"	"C"	"D1"	"D"	"E"

TYPICAL DRY SYSTEM INSTALLATION

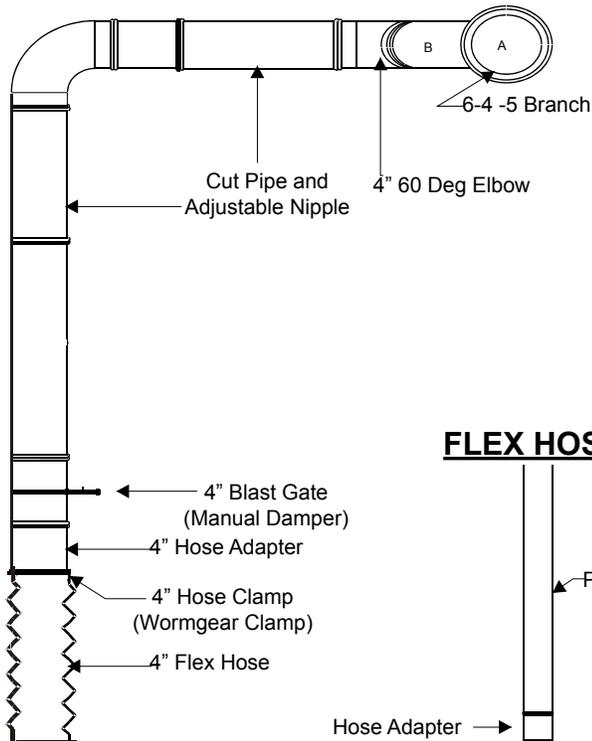
TYPICAL DROP FOR DRY SYSTEMS



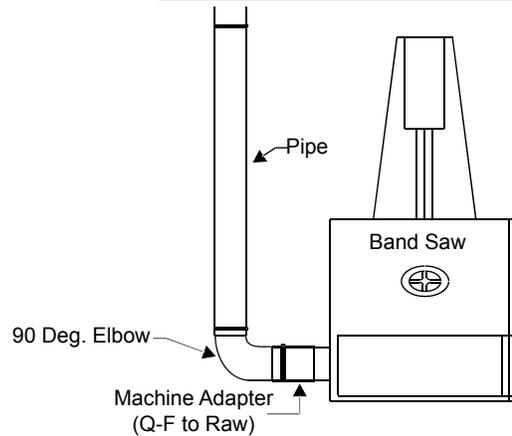
PLAN VIEW



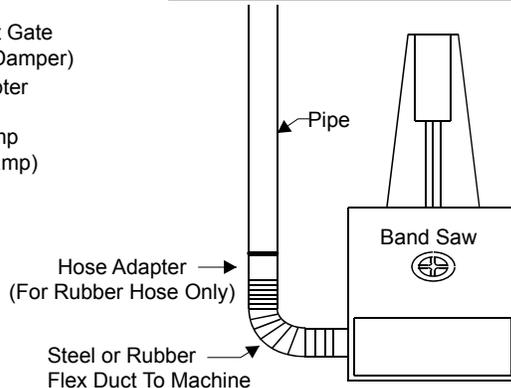
ELEVATION VIEW



HARD DUCT TO MACHINE

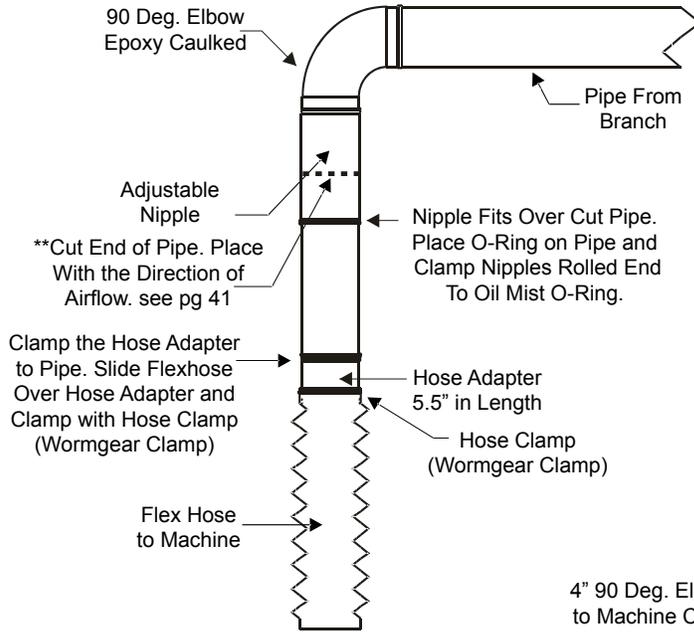


FLEX HOSE TO MACHINE

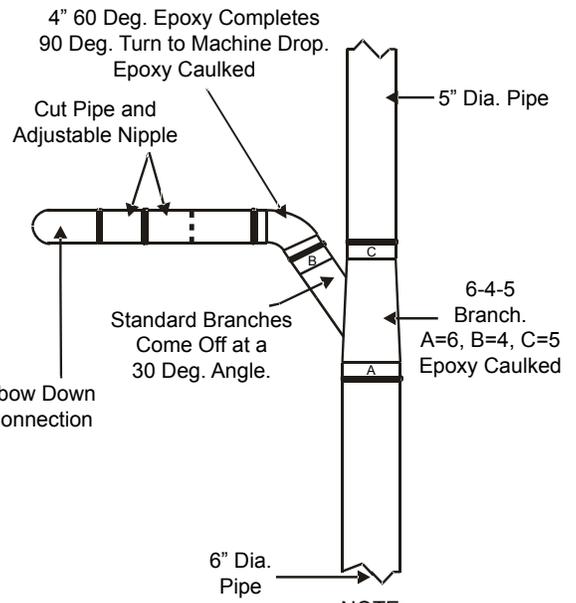


TYPICAL WET SYSTEM INSTALLATION

TYPICAL DROP FOR WET SYSTEMS

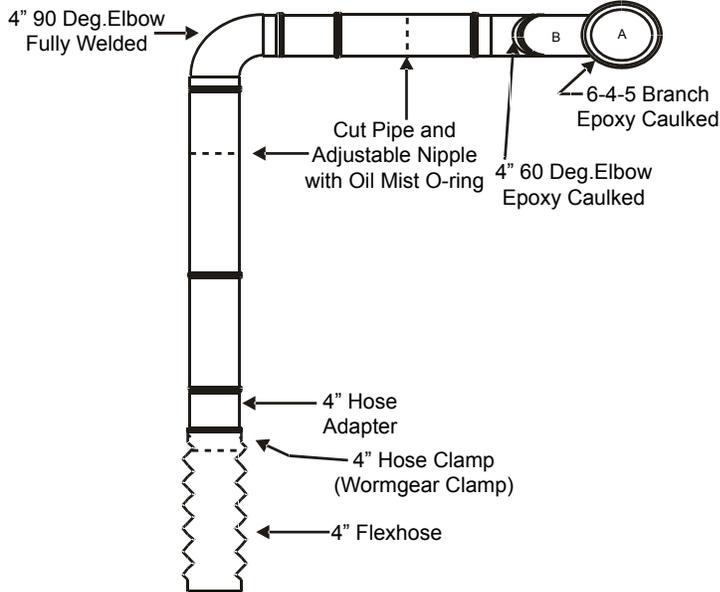


PLAN VIEW



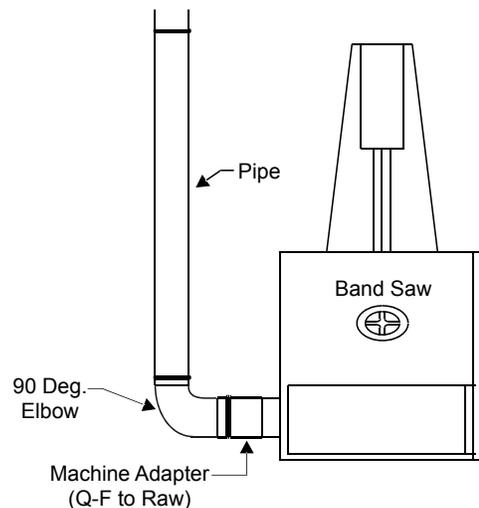
NOTE:
**Use Q-F clamps & Leak-Free gasketing

ELEVATION VIEW



NOTE:
Blast gates are not commonly used for wet systems. Use butterfly valves for flow control.
***Use Q-F clamps & Leak-Free gasketing

HARD DUCT TO MACHINE



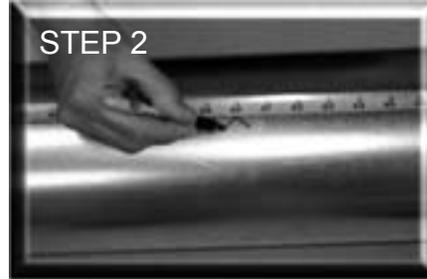
**INSTRUCTIONS FOR USING THE "QF" ADJUSTABLE NIPPLE
WITH RUBBER O-RING FOR DRY SYSTEM**

Each QF pipe section is 5 ft. in length. To accommodate an existing span, an adjustable nipple is used to shorten.



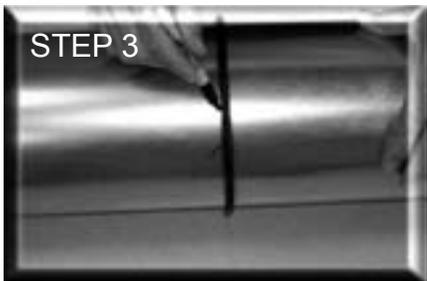
STEP 1

Measure distance to be spanned.



STEP 2

Mark distance to be spanned less 4".



STEP 3

Use O-ring provided and mark for cut.



STEP 4

Drill access hole then cut with saw



STEP 5

Cut piece of pipe put O-ring on cut pipe, slide nipple over



STEP 6

Snap clamp over O-ring and one end of nipple.

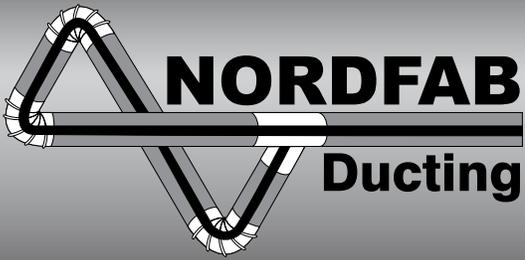
FINISHED CONNECTION
USING THE ADJUSTABLE
NIPPLE ASSEMBLY.



NOTE: KEEP CUT PIPE IN THE DIRECTION AS THE AIR FLOW.

AIR VOLUME CHART (CFM)

AIR VOLUME IN DUCTS IN CUBIC FEET PER MINUTE (CFM)											
VELOCITY IN FEET PER MINUTE (FPM)											
DUCT Ø	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000
3	100	125	150	170	195	220	245	270	295	320	345
4	175	220	260	305	350	395	440	485	525	570	615
5	275	340	410	475	545	615	680	750	820	885	955
6	395	490	590	685	785	885	980	1080	1180	1275	1375
7	535	670	800	935	1070	1205	1335	1470	1605	1735	1870
8	700	875	1050	1220	1395	1570	1745	1920	2095	2270	2445
9	885	1105	1325	1545	1765	1990	2210	2430	2650	2870	3090
10	1090	1365	1635	1910	2180	2455	2725	3000	3270	3545	3820
11	1320	1650	1980	2310	2640	2970	3300	3630	3960	4290	4620
12	1570	1965	2355	2750	3140	3535	3925	4320	4710	5105	5500
13	1850	2300	2770	3225	3685	4150	4610	5070	5530	5990	6450
14	2140	2675	3205	3740	4275	4810	5345	5880	6415	6950	7485
15	2450	3070	3680	4300	4900	5520	6130	6750	7360	7970	8590
16	2790	3490	4190	4885	5585	6285	6980	7680	8380	9075	9775
17	3150	3940	4730	5515	6300	7090	7880	8670	9450	10240	11030
18	3535	4420	5300	6185	7070	7950	8835	9720	10600	11485	12370
20	4365	5455	6545	7635	8725	9815	10910	12000	13090	14180	15270
22	5280	6600	7920	9240	10560	11880	13200	14520	15840	17160	18480
24	6285	7855	9425	10995	12656	14135	15710	17280	18850	20420	21995
26	7370	9210	11055	12900	14740	16580	18420	20270	22110	23950	25800
28	8550	10685	12820	14960	17100	19230	21310	23500	25650	27780	29920
30	9800	12260	14700	17170	19625	22080	24530	26990	29440	31890	34350
32	11160	13950	16750	19541	22330	25120	27910	30700	33490	36280	39070
34	12600	15755	18905	22055	25210	28360	31510	34660	37810	40965	44115
36	14130	17665	21195	24730	28260	31800	35325	38860	42390	45925	49455
38	15745	19680	23615	27550	31490	35425	39360	43295	47230	51170	55100
40	17445	21800	26170	30530	34890	39250	43610	47975	52330	56700	61055



The world's [***FASTEST***] ducting



QUICK-FIT FAST FAX TO: 888-922-5040

~~WANT~~ HAVE DUCTING EXPERT CONTACT ME

NAME: _____ COMPANY: _____

ADDRESS: _____ CITY: _____ ST: _____ ZIP: _____

DATE NEEDED: _____

PHONE: _____ FAX: _____ EMAIL: _____

CURRENT NEED: _____



AIR CLEANING SPECIALISTS, INC.
26 Horan Drive • Fenton, MO 63026
Toll Free 866-455-2130
Fax: 888-922-5040

www.ductingsystems.com