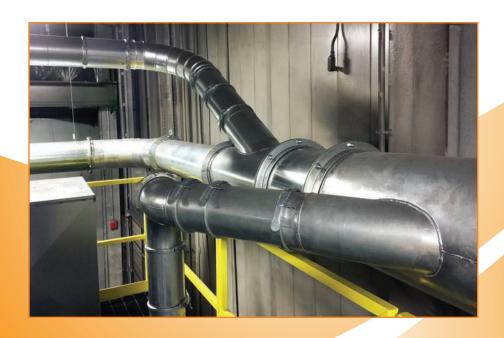




14 and 12 Gauge Ducting2017 Price Catalog



Nordfab Ducting

Heavier Gauge Ducting

In late 2015, Nordfab introduced XD Ducting, our line of ducting constructed from galvanized steel in 12 and 14 gauge. Ducting in 14ga is available with our popular QF rolled ends for clamp-together installation in sizes from 8" to 24" diameter or in sizes from 8" to 48" with Angle Flanged ends. Ducting in 12ga is available in sizes from 8" to 48" and provided with Angle Flanged ends. Nordfab ductwork is ideal for most dust.

mist and fume collection applications.



The World's Fastest Ducting

Nordfab's Quick-Fit™ (QF) is "The World's Fastest Ducting" in every aspect of your dust collection installation. Our ducting with QF rolled ends clamps together in seconds without welds, bolts, screws, flanges, special tools, precise measurements or specialized skills. Whenever your application allows clamp-together duct, QF cuts installation time — and duct-related downtime — by more than 45% over traditional ductwork.



Fast, Friendly and Reliable

When you contact Nordfab, you will find that from the time you first need design or quotation assistance, through delivery and installation, to after-sales service / replacement parts, Nordfab employees and products are "Fast, Friendly, and Reliable".

Our nationwide distribution network understands the urgency of your requests and has the tools and training to design and quote a system very quickly.





This product catalog contains information for ordering Nordfab XD ducting in galvanized steel in diameters from 8" to 48". If you are in need of custom fittings for specialized applications, ask your salesperson for availability.

Visit www.nordfab-us.com for Technical Data sheets and additional product information.



Enhanced Production Capabilities

Nordfab currently owns and operates an 80,000 square-foot office and manufacturing facility and a 30,000 square-foot XD manufacturing facility in Thomasville, North Carolina. More than 150 production, sales, and customer support employees work at our facilities.

No direct competitor in the industry matches Nordfab's investment in qualified employees, R&D or production technology. Nordfab is a global manufacturer with facilities in Europe (Scandinavia and the United Kingdom) and Asia as well as the USA.



Nordfab Quality Standards

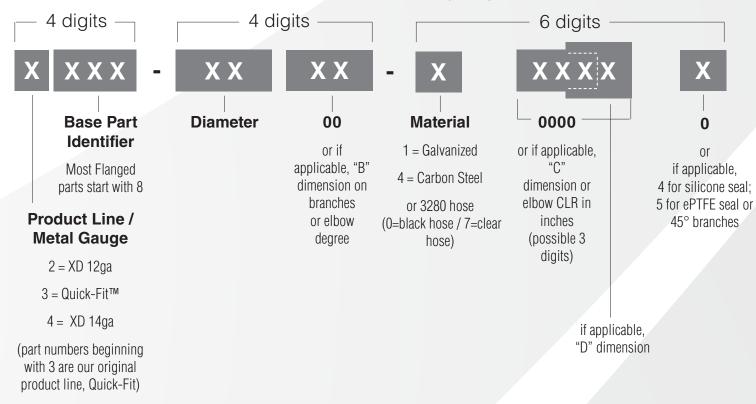
Nordfab is ISO 9001:2015 and ISO

14001:2015 registered, ensuring our dependability, quality, service, delivery, and minimum impact on the environment. Nordfab is also 6S



compliant, continuously improving plant processes and organization. In our continuing effort to ensure quality, our XD product fabricators inspect welds to AWS standards.

Nordfab Part Numbers & Product Groupings



Examples:

4200-1000-100000 = 14ga Pipe: 10" diameter QF galvanized

2801-1200-100000 = 12ga Pipe: 12" diameter flanged (standard Angle Flange) galvanized

2210-1090-115000 = 12ga Elbow: 10" diameter 90° galvanized, 1.5 CLR (15 = CLR x dia.)

4220-1008-106000 = 14ga 30° Branch: A=10", B=8", C=6" galvanized (to indicate 45° branch, final number changes to 5)

3260-1000-100004 = QF Clamp: 10" diameter galvanized with silicone seal

End Types (See illustrated examples of End Types on page 15)

QF: Quick-Fit[™] rolled ends for quick connection to other QF components using the QF Clamp (14 gauge only).

ANGFL: Industry-standard Angle Ring.

Nordfab standard is Angle Flange (ANGFL) attached loosely and retained in place using a vanstone lip. Upon customer request, the flange can be solid welded to product or provided loose (separate) with a NOFIT end. Flanges to be welded will require clocked location.

FFL - Flat Flange. Provided when custom flange is required (for options such as custom hole pattern). Same connections as ANGFL.

RAWFLEX - Raised dimple to retain flexible hose.

NOFIT - No Fitting. A raw end with standard dimensions based on product size.

RAWOD - Raw end without fitting. End dimension based on customer specified Outside Diameter.

RAWID - Raw end without fitting. End dimension based on customer specified Inside Diameter.

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		60° 1.5 CLR	8
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		30° 1.5 CLR	9
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See our QF product line catalog for additional ducting components in lighter gauges. Contact your salesperson about pricing and availability if you don't see 12 or 14 gauge items that you require.

Ductwork Product Groups

This price catalog is organized into the following product groups:

Pipe and Clamps, pages 5 - 7

Elbows, page 8 - 9

Branches, pages 10 - 11

Adapters, pages 12 - 13

Blast Gates, page 14

Hoses & Hose Clamps, pages 15 - 16

Diverter Valves, page 17

Accessories, pages 18

Hoods, page 18

Note:

Prices for flanged XD products include the cost of all flanges required.

Catalog and prices are subject to change without notice Product photographs reference only XD Ducting General Conditions of Sale apply



- Plasma welded, painted seam (section of seam shown at right).
- Nominal 5' length.
- If flanged, vanstone ends with rotational Angle Flanges is standard. Welded flanges optional.

Custom Length Cut Pipe Available

XD Duct Pipe

Ø in	XD-QF Pipe, 14ga 4200-XX00-100000	XD-ANGFL Pipe, 14ga 4201-XX00-100000	XD-ANGFL Pipe, 12ga 2201-XX00-100000
8	\$93.10	\$101.60	\$117.10
9	\$100.70	\$110.30	\$127.10
10	\$108.30	\$119.10	\$137.20
11	\$129.90	\$140.50	\$162.10
12	\$129.90	\$149.50	\$171.10
13	\$167.20	\$185.20	\$213.10
14	\$167.20	\$188.10	\$216.00
15	\$217.10	\$233.20	\$269.40
16	\$217.10	\$258.00	\$294.20
17	\$239.30	\$281.10	\$320.90
18	\$239.30	\$283.70	\$323.60
20	\$287.10	\$334.30	\$382.10
22	\$317.60	\$366.60	\$419.50
24	\$365.50	\$411.30	\$472.20
26		\$412.50	\$469.10
28		\$448.40	\$510.10
30		\$522.00	\$595.90
32		\$543.60	\$620.40
34		\$607.70	\$695.00
36		\$650.00	\$743.60
38		\$667.10	\$761.00
40		\$700.10	\$798.90
42		\$776.70	\$888.30
44		\$813.60	\$930.50
46		\$849.30	\$971.50
48		\$886.60	\$1,014.20



Above: Close-up of section of plasma welded pipe seam.

Quick-Fit™ Clamp with Pin



- Clamps come standard from factory with Nitrile seals.
 Silicone or ePTFE seals are optional for an upcharge
 specify when ordering.
 Clamps also may be ordered optionally without seals.
- 7" to 11" Clamps: Large bridge pin with 1/2" wide seal supplied from factory.
- 12" to 24" Clamps: Large bridge pin with 5/8" wide seal supplied from factory.
- Nitrile and Silicone seals stocked in rolls of 50'. ePTFE seals stocked in rolls of 100'.

Ø in	Nitrile Seals 3260-XX00-X00900	Silicone Seals 3260-XX00-X00904	ePTFE Seals 3260-XX00-X00905	Weight Galv
	Galv. Price	Galv. Price	Galv. Price	
8	\$11.60 #	\$14.50 #	\$27.00 #	0.59
9	\$12.00 #	\$15.00 #	\$28.50 #	0.63
10	\$13.10 #	\$16.40 #	\$31.40 #	0.68
11	\$14.10 #	\$17.70 #	\$36.30 #	0.70
12	\$14.10 #	\$17.70 #	\$36.30 #	1.32
13	\$15.40 #	\$19.30 #	\$39.00 #	1.38
14	\$15.40 #	\$19.30 #	\$39.00 #	1.48
15	\$17.00 #	\$21.30 #	\$41.70 #	1.53
16	\$17.00 #	\$21.30 #	\$41.70 #	1.60
17	\$17.70 #	\$22.10 #	\$44.10 #	1.67
18	\$17.70 #	\$22.10 #	\$44.10 #	1.77
19	\$18.40 #	\$23.00 #	\$47.20 #	1.85
20	\$18.40 #	\$23.00 #	\$47.20 #	1.92
21	\$19.30	\$24.20	\$49.50	1.98
22	\$19.30 #	\$24.20 #	\$49.50 #	2.04
23	\$22.20	\$27.90	\$56.90	2.10
24	\$22.20 #	\$27.90 #	\$56.90 #	2.20
		Additional Bridge Pin		
	Galv 3	260-0150-100000 SS 3260-01	150-200000	
LARGE PINS	\$0.50	\$0.50	\$0.50	(10) .33
		Additional Seals		
Ø	Nitrile	Silicone	ePTFE	
in	Part No. & Price	Part No. & Price	Part No. & Price	
7 - 11	3260-0500-SP4000 \$0.30 per foot	3260-0500-HT4000 \$1.00 per foot	3260-0000-SG4000 \$2.10 per foot	0.02
12 - 24	3260-0650-SP5000 \$0.40 per foot	3260-0650-HT5000 \$1.10 per foot	3260-0000-SG.650 \$2.50 per foot	0.02



- The XD Adjustable Nipple Assembly is used to provide variable length adjustment of 14 gauge XD ductwork with QF ends.
- The assembly includes one Adjustable Nipple with O-ring, one nominally 5' long 14ga XD Duct Pipe, and one QF Clamp. The XD Pipe has a QF rolled edge on one end, for connection to other QF end ductwork using the Quick-Fit Clamp, and is raw on the other end. The raw end can be cut down during installation to fill duct spans less than 5 feet in length.
- For vertical or horizontal installation.
- In all applications duct must be supported in compliance with local regulations.
- For high temperature applications, red O-ring* and QF Clamp with Silicone Seal or QF Clamp with ePTFE Seal may be needed (additional cost). Specify O-ring and Clamp Seal type.

XD Adjustable Nipple Assembly

Ø in	XD Nipple Assembly 4202-xxXD-100000 4202-xxXD-100005 (for higher temps)*
8	\$125.20
9	\$134.60
10	\$142.80
11	\$169.50
12	\$169.50
13	\$220.80
14	\$220.80
15	\$279.10
16	\$279.10
17	\$311.40
18	\$311.40
20	\$375.30
22	\$421.50
24	\$484.80

The XD Adjustable Nipple Assembly gives users of 14 gauge XD Ducting all the easy-to-use features of Quick-Fit™ Ducting — a modular system with the ability to make fast length adjustments and clamp-to-gether connectivity — PLUS the durability of 14 gauge galvanized steel.





Measure distance to be spanned.



On raw end of provided Pipe, mark the distance to be spanned **less 1**".



Use provided O-ring to mark for cut.



Cut the Pipe.



Put O-ring on the cut piece of Pipe and slide the provided Adjustable Nipple over the Pipe.



Place QF Clamp over the O-ring and end of Adjustable Nipple.



Finished connection with the Adjustable Nipple Assembly





- Adapts duct with QF ends to duct with flanged ends.
 - Rotational Angle Flange standard. Specify if Flat Flange (FFL) required. If Flat Flange, specify hole pattern (cost same as Angle Flange). If no hole pattern drawing provided, Flat Flange will be blank.
- If welded flanges requested, clocked location must be specified.

Angle Flange

Ø		ID	OD		w	-		N= -4	Ø of	Orbi	
in	Part No.	in	in	H in	in	T in	B.C.	No. of Bolts	Bolt Holes	Galv Price	Weight
8	3261-0800	8.125	10.375	1 1/8	1 1/8	1/8	9 9/16	6	.375	\$17.40	1.90
9	3261-0900	9.125	11.625	1 1/4	1 1/4	1/8	10 5/8	6	.4375	\$19.30	2.55
10	3261-1000	10.125	12.875	1 1/4	1 3/8	1/8	11 13/16	6	.4375	\$23.00	3.05
11	3261-1100	11.125	14.125	1 1/4	1 1/2	1/8	12 3/4	6	.4375	\$30.10	3.25
12	3261-1200	12.125	15.125	1 1/2	1 1/2	1/8	14	8	.4375	\$30.10	3.88
13	3261-1300	13.125	16.125	1 1/2	1 1/2	1/8	15	8	.4375	\$37.40	4.25
14	3261-1400	14.125	17.125	1 1/2	1 1/2	1/8	16	8	.4375	\$37.40	4.75
15	3261-1500	15.125	18.125	1 1/2	1 1/2	3/16	17	8	.4375	\$51.00	7.25
16	3261-1600	16.125	19.125	1 1/2	1 1/2	3/16	18	8	.4375	\$51.00	8.00
17	3261-1700	17.125	20.125	1 1/2	1 1/2	3/16	19	8	.4375	\$53.90	8.25
18	3261-1800	18.125	21.125	1 1/2	1 1/2	3/16	20	8	.4375	\$53.90	8.50
19	3261-1900	19.125	22.125	1 1/2	1 1/2	3/16	20 3/4	12	.4375	\$56.60	8.75
20	3261-2000	20.125	23.125	1 1/2	1 1/2	3/16	21 3/4	12	.4375	\$56.60	9.50
21	3261-2100	21.125	24.125	1 1/2	1 1/2	3/16	22 3/4	12	.4375	\$63.00	10.25
22	3261-2200	22.125	25.125	1 1/2	1 1/2	3/16	23 3/4	12	.4375	\$63.00	10.75
23	3261-2300	23.125	26.125	1 1/2	1 1/2	3/16	24 7/8	12	.4375	\$67.60	11.25
24	3261-2400	24.125	27.125	1 1/2	1 1/2	3/16	25 7/8	12	.4375	\$67.60	11.50
25	3261-2500	25.125	28.125	1 1/2	1 1/2	3/16	26 7/8	16	.4375	\$94.10	12.00
26	3261-2600	26.125	30.125	2	2	3/16	28 3/8	16	.4375	\$94.10	16.75
27	3261-2700	27.125	31.125	2	2	3/16	29 3/8	16	.4375	\$103.70	17.38
28	3261-2800	28.125	32.125	2	2	3/16	30 3/8	16	.4375	\$103.70	18.00
29	3261-2900	29.125	33.125	2	2	3/16	31 3/8	16	.4375	\$113.50	18.75
30	3261-3000	30.125	34.125	2	2	3/16	32 3/8	16	.4375	\$113.50	19.50
31	3261-3100	31.125	35.125	2	2	3/16	33 3/8	16	.4375	\$119.10	20.38
32	3261-3200	32.125	36.125	2	2	3/16	34 3/8	16	.4375	\$119.10	20.75
33	3261-3300	33.125	37.125	2	2	3/16	35 3/8	16	.4375	\$128.70	21.25
34	3261-3400	34.125	38.125	2	2	3/16	36 3/8	16	.4375	\$128.70	22.00
35	3261-3500	35.125	39.125	2	2	3/16	37 3/8	16	.4375	\$132.60	22.50
36	3261-3600	36.125	40.125	2	2	3/16	38 3/8	16	.4375	\$132.60	23.00
37	3261-3700	37.125	41.125	2	2	3/16	39 3/8	24	.4375	\$134.60	23.75
38	3261-3800	38.125	42.125	2	2	3/16	40 3/8	24	.4375	\$134.60	24.50
39	3261-3900	39.125	43.125	2	2	3/16	41 3/8	24	.4375	\$144.20	25.00
40	3261-4000	40.125	44.125	2	2	3/16	42 3/8	24	.4375	\$144.20	25.75
42	3261-4200	42.125	46.125	2	2	3/16	44 3/8	24	.4375	\$148.30	26.50
44	3261-4400	44.125	48.125	2	2	3/16	46 3/8	24	.4375	\$156.10	28.00
46	3261-4600	46.125	50.125	2	2	3/16	48 3/8	24	.4375	\$163.20	29.00
48	3261-4800	48.125	52.125	2	2	3/16	50 3/8	24	.4375	\$170.40	30.75



• Industry standard Angle Flange

NOTE: Custom drill patterns available in Flat Flanges. ANSI Flange patterns are charged double the standard. Call for pricing on other options. ANSI patterns will be \$1/16" thickness.

Angle Flange Gasket

	- 1 milgs - 5 ms	
ø in	Nitrile 3263-XX00-000000 Price	Silicone 3263-XX00-000005 Price
8	\$10.30	\$15.40
9 *	\$11.30	\$17.10
10	\$16.20	\$24.30
11 **	\$17.60	\$26.50
12	\$18.70	\$28.10
13 **	\$22.10	\$33.30
14 *	\$23.30	\$35.00
15 **	\$32.70	\$49.10
16*	\$34.30	\$51.50
17 **	\$36.20	\$54.30
18 *	\$39.00	\$58.50
19 **	\$40.70	\$61.10
20 *	\$42.30	\$63.50
21 **	\$64.60	\$96.90
22*	\$67.20	\$100.80
23 **	\$69.80	\$104.30
24 *	\$74.60	\$112.00
25 **	\$77.20	\$115.90
26 **	\$82.20	\$123.30
27 **	\$84.90	\$127.30
28 **	\$90.90	\$136.40
29 **	\$90.90	\$136.40
30 **	\$92.40	\$138.70
31 **	\$95.00	\$142.60
32 **	\$129.30	\$194.00
33 **	\$132.70	\$199.20
34 **	\$136.20	\$204.30
35 **	\$139.50	\$209.30
36 **	\$143.00	\$214.50
37 **	\$146.30	\$219.60
38 **	\$149.80	\$224.70
39 **	\$153.10	\$229.70
40 **0	\$156.60	\$234.90
42 **0	\$159.90	\$247.90
44 **0	\$163.40	\$254.00
46 **°	\$166.90	\$260.10
48 **0	\$170.20	\$266.10
+ 0:1:	Florence F. 7 days lead to	

- * Silicone Flange 5 7 days lead time ** Both Nitrile and Silicone are 5 7 days lead time. ° Parts will be 4-piece segmented due to size.



- •Black nitrile standard, 60 durometer. Temp range -20°F to 170°F.
- •Red silicone optional, 50 durometer. Temp range -65°F to 450°F.
- •Nitrile material is conductive.
- One gasket per joint.



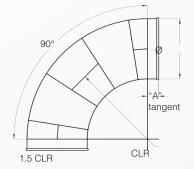
- Elbows are constructed of butt-welded gores.
- Other CLRs available upon request.
- Interior buffing available with upcharge.
- If flanged, vanstone ends with rotational Angle Flanges standard. Welded flanges will be clocked at the centerline as standard.

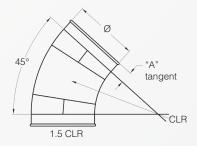
XD Elbow

Standard, radius 1.5 CLR

14ga 4210-XXXX- 4211-XXXX- 1XX000 1XX0000 1XX0000 1XX0000 1XX0000 1XX0000 1XX0000 1XX0000 1XX000		XD-QF Elbow,	XD-ANGFL	XD-ANGFL
		14ga	Elbow, 14ga	Elbow, 12ga
Section		4210-XXXX-	4211-XXXX-	2211-XXXX-
8 \$199.90 \$218.80 \$256.30 9 \$207.70 \$228.50 \$267.50 10 \$216.00 \$238.90 \$279.40 11 \$274.40 \$308.40 \$359.90 12 \$274.40 \$308.40 \$359.90 13 \$291.30 \$338.00 \$382.60 14 \$291.30 \$330.80 \$385.50 15 \$299.10 \$364.10 \$420.20 17 \$420.40 \$488.80 \$567.60 18 \$420.40 \$491.40 \$570.30 20 \$490.60 \$569.60 \$661.60 22 \$631.10 \$715.30 \$833.60 24 \$725.80 \$812.20 \$948.20 26 \$1,095.30 \$1,279.90 28 \$1,355.60 \$1,587.40 30 \$1,387.00 \$1,623.10 32 \$1,762.00 \$2,067.30 34 \$2,015.70 \$2,366.90 32 \$1,762.00 \$2,267.30 34 \$2,302.60 \$2,706.10 38 \$2,490.00 <th>Ø</th> <th>1XX000</th> <th>1XX000</th> <th>1XX000</th>	Ø	1XX000	1XX000	1XX000
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	48		\$2,815.10	\$3,304.20

	XD-QF Elbow,	XD-ANGFL	XD-ANGFL
	14ga	Elbow, 14ga	Elbow, 12ga
	4210-XXXX-	4211-XXXX-	2211-XXXX-
Ø	1XX000	1XX000	1XX000
in		45 Degree	
8	\$140.80	\$159.70	\$186.10
9	\$143.60	\$164.40	\$191.30
10	\$149.60	\$172.50	\$200.60
11 12	\$157.90 \$157.90	\$183.00 \$192.00	\$212.60 \$221.60
13	\$157.90	\$206.80	\$238.80
14	\$170.20	\$209.70	\$241.60
15	\$228.30	\$268.40	\$311.20
16	\$228.30	\$293.30	\$336.10
17	\$262.70	\$331.00	\$380.20
18	\$262.70	\$333.70	\$382.90
20	\$314.00	\$393.00	\$451.90
22	\$360.30	\$444.50	\$512.10
24	\$414.40	\$500.80	\$578.50
26		\$750.00	\$869.90
28		\$935.90	\$1,089.00
30		\$1,002.20	\$1,166.10
32		\$1,114.40	\$1,298.20
34		\$1,195.40	\$1,392.80
36		\$1,330.00	\$1,551.10
38 40		\$1,444.30 \$1,552.30	\$1,683.90
40		\$1,658.50	\$1,810.80 \$1,935.50
44		\$1,737.40	\$2,027.50
46		\$1,815.10	\$2,118.40
48		\$1,894.40	\$2,210.90
		30 degree	
8	\$132.50	\$151.40	\$176.20
9	\$137.20	\$158.00	\$183.80
10	\$143.60	\$166.50	\$193.40
11	\$146.50	\$171.60	\$199.10
12	\$146.50	\$180.60	\$208.10
13	\$161.90	\$198.50	\$228.90
14	\$161.90	\$201.40	\$231.80
15	\$180.70	\$220.90	\$254.80
16 17	\$180.70 \$196.30	\$245.80 \$264.60	\$279.70 \$301.40
18	\$196.30	\$267.30	\$304.10
20	\$229.80	\$308.90	\$352.00
22	\$262.70	\$346.90	\$396.10
24	\$302.10	\$388.50	\$445.10
26	400=110	\$660.70	\$763.80
28		\$726.60	\$840.50
30		\$816.10	\$945.10
32		\$850.70	\$985.00
34		\$990.00	\$1,148.90
36		\$1,091.00	\$1,267.30
38		\$1,188.70	\$1,380.40
40		\$1,276.50	\$1,483.30
42		\$1,363.20	\$1,584.70
44		\$1,428.00	\$1,660.10
46		\$1,491.60	\$1,734.20
48		\$1,556.80	\$1,810.00







- Specify LR when ordering.
- Elbows are constructed of butt-welded gores.
- Other CLRs available upon request.
- Interior buffing available with upcharge.
- If flanged, vanstone ends with rotational Angle Flanges standard. Welded flanges will be clocked at the centerline as standard.

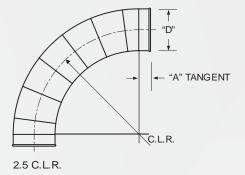
XD Elbow Long Radius Radius 2.5 CLR

	XD-QF Elbow,	XD-ANGFL	XD-ANGFL
	14ga 4210-XXXX-	Elbow, 14ga 4211-XXXX-	Elbow, 12ga 2211-XXXX-
Ø	1XX000	1XX000	1XX000
in	90 De	egree, Long Rad	dius
8	\$259.00	\$277.90	\$326.40
9	\$269.40	\$290.20	\$340.70
10	\$274.40	\$297.30	\$348.80
11	\$324.30	\$349.40	\$410.20
12	\$324.30	\$358.40	\$419.20
13	\$360.30	\$396.90	\$464.50
14	\$360.30	\$399.80	\$467.30
15	\$562.60	\$602.80	\$708.30
16	\$562.60	\$627.70	\$733.10
17	\$614.30	\$682.60	\$797.80
18	\$614.30	\$685.30	\$800.50
20	\$1,018.80	\$1,097.90	\$1,288.90
22	\$1,037.80	\$1,122.10	\$1,316.70
24	\$1,193.70	\$1,280.10	\$1,503.90
26		\$1,385.70	\$1,624.80
28		\$1,712.40	\$2,011.10
30		\$1,753.00	\$2,057.70
32		\$2,222.40	\$2,613.90
34		\$2,541.00	\$2,990.70
36		\$2,900.70	\$3,416.30
38		\$3,312.70	\$3,902.60
40		\$3,692.70	\$4,352.60
42		\$4,028.10	\$4,749.40
44		\$4,219.90	\$4,975.40
46		\$4,410.40	\$5,200.30
48	CO dom	\$4,602.50 ree, Long Radiu	\$5,426.80
8	\$202.00	\$220.80	\$258.70
9	\$202.00	\$235.60	\$275.90
10	\$240.00	\$262.90	\$307.90
11	\$261.10	\$286.20	\$335.10
12	\$261.10	\$295.10	\$344.10
13	\$298.90	\$335.60	\$391.60
14	\$298.90	\$338.40	\$394.50
15	\$349.60	\$389.80	\$455.30
16	\$349.60	\$414.60	\$480.10
17	\$395.70	\$464.10	\$538.30
18	\$395.70	\$466.70	\$540.90
20	\$509.80	\$588.80	\$684.40
22	\$602.00	\$686.30	\$799.20
24	\$692.60	\$779.00	\$908.80
26	T	\$1,049.50	\$1,225.50
28		\$1,193.90	\$1,395.30
30		\$1,396.20	\$1,634.00
32		\$1,724.30	\$2,022.50
34		\$2,161.40	\$2,539.90
36		\$2,488.20	\$2,926.50
38		\$2,840.70	\$3,342.20
40		\$3,164.90	\$3,725.70
42		\$3,451.20	\$4,064.20
44		\$3,615.40	\$4,257.60
46		\$3,778.40	\$4,449.90

\$3,943.10

\$4,643.70

Ø	XD-QF Elbow, 14ga 4210-XXXX- 1XX000	XD-ANGFL Elbow, 14ga 4211-XXXX- 1XX000	XD-ANGFL Elbow, 12ga 2211-XXXX- 1XX000
in		egree, Long Rad	
8	\$202.00	\$220.80	\$258.70
9	\$214.80	\$235.60	\$275.90
10	\$240.00	\$262.90	\$307.90
11	\$261.10	\$286.20	\$335.10
12	\$261.10	\$295.10	\$344.10
13	\$298.90	\$335.60	\$391.60
14	\$298.90	\$338.40	\$394.50
15	\$349.60	\$389.80	\$455.30
16	\$349.60	\$414.60	\$480.10
17	\$395.70	\$464.10	\$538.30
18	\$395.70	\$466.70	\$540.90
20	\$509.80	\$588.80	\$684.40
22	\$602.00	\$686.30	\$799.20
24	\$692.60	\$779.00	\$908.80
26		\$954.30	\$1,112.40
28		\$1,187.80	\$1,388.10
30		\$1,271.70	\$1,486.20
32 34		\$1,413.50 \$1,516.00	\$1,653.40 \$1,773.50
36		\$1,663.20	\$1,773.30
38		\$1,896.80	\$2,221.30
40		\$2,109.10	\$2,472.00
42		\$2,297.20	\$2,693.90
44		\$2,406.50	\$2,822.10
46		\$2,514.60	\$2,949.00
48		\$2,624.30	\$3,077.70
	30 degr	ee, Long Radiu	
8	\$156.90	\$175.70	\$205.20
9	\$165.40	\$186.20	\$217.20
10	\$171.60	\$194.50	\$226.70
11	\$184.00	\$209.10	\$243.60
12	\$184.00	\$218.10	\$252.60
13	\$196.30	\$232.90	\$269.70
14	\$196.30	\$235.80	\$272.60
15	\$215.10	\$255.30	\$295.70
16	\$215.10	\$280.20	\$320.50
17	\$241.10	\$309.40	\$354.60
18	\$241.10 \$282.40	\$312.10	\$357.30
20	\$282.40 \$321.90	\$361.40	\$414.40
24	\$370.10	\$406.20 \$456.50	\$466.50 \$525.90
26	φ370.10	\$842.10	\$979.30
28		Ψ042.10	ψ313.00
		\$926.20	\$1 N77 5N
		\$926.20 \$1.039.30	\$1,077.50 \$1,210.20
30 32		\$1,039.30	\$1,210.20
30 32		\$1,039.30 \$1,083.30	\$1,210.20 \$1,261.20
30		\$1,039.30 \$1,083.30 \$1,258.80	\$1,210.20 \$1,261.20 \$1,468.20
30 32 34		\$1,039.30 \$1,083.30	\$1,210.20 \$1,261.20
30 32 34 36		\$1,039.30 \$1,083.30 \$1,258.80 \$1,360.70	\$1,210.20 \$1,261.20 \$1,468.20 \$1,587.60
30 32 34 36 38		\$1,039.30 \$1,083.30 \$1,258.80 \$1,360.70 \$1,550.70	\$1,210.20 \$1,261.20 \$1,468.20 \$1,587.60 \$1,810.30
30 32 34 36 38 40		\$1,039.30 \$1,083.30 \$1,258.80 \$1,360.70 \$1,550.70 \$1,721.90	\$1,210.20 \$1,261.20 \$1,468.20 \$1,587.60 \$1,810.30 \$2,012.30
30 32 34 36 38 40 42		\$1,039.30 \$1,083.30 \$1,258.80 \$1,360.70 \$1,550.70 \$1,721.90 \$1,874.10	\$1,210.20 \$1,261.20 \$1,468.20 \$1,587.60 \$1,810.30 \$2,012.30 \$2,191.40

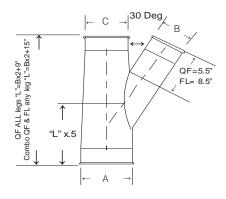




- Standard 30° Optional 45°.
- When ordering specify A, B, C.
- A-B ≥ B-C
- Use formula above to determine if a reducer is needed at "C".
- If flanged, vanstone ends with rotational flanges standard.
 If welded flanges requested, clocked location must be specified.

XD Branch

Ø in	XD-QF Branch, 14ga 4220-XXXX-1XX000	XD-ANGFL Branch, 14ga 4820-XXXX-1XX000	XD-ANGFL Branch, 12ga 2820-XXXX-1XX000
8	\$195.40	\$223.60	\$262.70
9	\$204.40	\$235.70	\$276.60
10	\$218.10	\$252.40	\$296.00
11	\$242.40	\$279.90	\$328.40
12	\$242.40	\$293.40	\$341.90
13	\$284.50	\$339.40	\$396.30
14	\$284.50	\$343.70	\$400.60
15	\$327.20	\$387.50	\$453.00
16	\$327.20	\$424.80	\$490.20
17	\$356.10	\$458.60	\$529.80
18	\$356.10	\$462.60	\$533.80
20	\$428.70	\$547.20	\$633.00
22	\$539.10	\$665.50	\$773.30
24	\$620.00	\$749.60	\$873.60
26		\$767.70	\$888.00
28		\$964.90	\$1,122.10
30		\$1,080.20	\$1,258.00
32		\$1,203.00	\$1,403.50
34		\$1,333.70	\$1,557.70
36		\$1,464.20	\$1,711.80
38		\$1,611.90	\$1,884.40
40		\$1,732.30	\$2,026.70
42		\$1,803.30	\$2,109.50
44		\$1,889.00	\$2,209.80
46		\$1,973.00	\$2,308.30
48		\$2,059.30	\$2,409.30



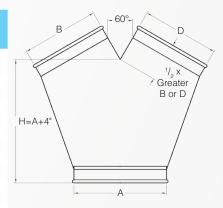
Any Branch with B, C, or D end smaller than 8" will be hybrid. (Smaller section will be a lighter gauge.)



- Standard 60° Optional 90°.
- When ordering specify A, B, D.
- Both B & D each must be at least 50% of A. With B or D being at least 80% of the opposite leg.
- Leg length = 1/2 greater of B or D
- If flanged, vanstone ends with rotational flanges standard.
 If welded flanges requested, clocked location must be specified.

XD Y-Branch (Traditional Pant Leg Design)

Ø	XD-QF Y-Branch, 14ga	XD-ANGFL Y-Branch, 14ga	XD-ANGFL Y-Branch, 12ga
in	4221-XXXX-1XX000	4821-XXXX-1XX000	2821-XXXX-1XX000
8	\$262.10	\$290.40	\$342.80
9	\$275.60	\$306.80	\$361.90
10	\$280.70	\$315.10	\$371.20
11	\$322.50	\$360.10	\$424.60
12	\$322.50	\$373.60	\$438.10
13	\$388.20	\$443.10	\$520.70
14	\$388.20	\$447.40	\$525.00
15	\$431.90	\$492.20	\$578.50
16	\$431.90	\$529.40	\$615.80
17	\$479.70	\$582.20	\$678.10
18	\$479.70	\$586.20	\$682.10
20	\$570.70	\$689.30	\$803.50
22	\$655.60	\$782.00	\$913.10
24	\$754.30	\$883.90	\$1,034.70
26		\$950.10	\$1,106.90
28		\$1,085.80	\$1,267.10
30		\$1,191.10	\$1,391.00
32		\$1,306.70	\$1,527.90
34		\$1,436.60	\$1,681.20
36		\$1,569.10	\$1,837.70
38		\$1,717.50	\$2,011.20
40		\$1,858.60	\$2,178.30
42		\$1,953.00	\$2,289.10
44		\$2,045.90	\$2,398.00
46		\$2,136.90	\$2,505.00
48		\$2,230.40	\$2,614.60



Note:

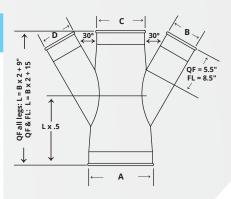
Branch pricing is same regardless of B, C, or D dimensions. Flanged branches include the cost of all flanges required.



- When ordering, specify A,B,C,D.
- (A-B) \geq (B-C) and (B) \geq (D)
- Reducer at "B" or "D" may be required. Use formula above to determine.
- Standard 30° Optional 45°
- If flanged, vanstone ends with rotational flanges standard.
 If welded flanges requested, clocked location must be specified.

XD Double Branch

	XD-QF Double	XD-ANGFL Double	XD-ANGFL Double
Ø	Branch, 14ga	Branch, 14ga	Branch, 12ga
in	4226-XXXX-1XXXX0	4826-XXXX-1XXXX0	2826-XXXX-1XXXX0
8	\$261.00	\$298.70	\$350.80
9	\$274.10	\$315.70	\$370.60
10	\$279.60	\$325.40	\$381.30
11	\$320.90	\$371.00	\$435.20
12	\$320.90	\$389.00	\$453.20
13	\$386.40	\$459.60	\$536.90
14	\$386.40	\$465.30	\$542.60
15	\$429.80	\$510.10	\$596.10
16	\$429.80	\$559.80	\$645.80
17	\$477.60	\$614.30	\$709.80
18	\$477.60	\$619.60	\$715.10
20	\$568.10	\$726.20	\$839.90
22	\$652.70	\$821.20	\$951.70
24	\$750.50	\$923.30	\$1,073.50
26		\$1,001.40	\$1,157.40
28		\$1,140.90	\$1,321.30
30		\$1,249.90	\$1,448.80
32		\$1,368.40	\$1,588.40
34		\$1,502.10	\$1,745.50
36		\$1,638.00	\$1,905.30
38		\$1,748.50	\$2,031.70
40		\$1,837.30	\$2,135.40
42		\$1,928.10	\$2,241.10
44		\$2,019.80	\$2,347.70
46		\$2,109.00	\$2,451.80
48		\$2,201.50	\$2,559.20



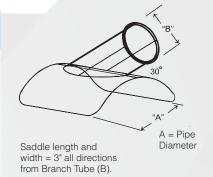
Any Branch with B, C, or D end smaller than 8" will be hybrid. Smaller section will be a lighter gauge.



- In-cut used to cut into existing lines.
- Specify A and B diameter and end treatment. Standard end is QF.
- Standard 30° Optional 45°.
- If flanged, vanstone ends with rotational flanges standard. If welded flanges requested, clocked location must be specified.

XD In-Cut

Ø in	XD-QF In-Cut 14ga 4223-XXXX-100000	XD-ANGFL In-Cut, 14ga 4823-XXXX-100000	XD-ANGFL In-Cut, 12ga 2823-XXXX-100000
8	\$95.30	\$104.70	\$123.70
9	\$99.30	\$109.70	\$129.60
10	\$107.60	\$119.00	\$140.50
11	\$115.80	\$128.40	\$151.50
12	\$115.80	\$132.90	\$156.00
13	\$130.90	\$149.20	\$175.40
14	\$130.90	\$150.60	\$176.80
15	\$147.60	\$167.70	\$197.20
16	\$147.60	\$180.10	\$209.60
17	\$163.90	\$198.10	\$230.90
18	\$163.90	\$199.50	\$232.20
20	\$260.70	\$300.20	\$352.30
22	\$358.50	\$400.60	\$472.30
24	\$412.50	\$455.70	\$538.10
26		\$492.00	\$594.30
28		\$538.30	\$650.10
30		\$596.80	\$720.60
32		\$656.00	\$791.90
34		\$799.60	\$964.50
36		\$883.10	\$1,065.00
38		\$930.40	\$1,122.30
40		\$979.50	\$1,181.50
42		\$1,009.30	\$1,193.10
44		\$1,057.40	\$1,249.80
46		\$1,104.80	\$1,306.00
48		\$1,153.00	\$1,363.00

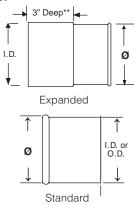




- Standard end styles are QF to NOFIT.
- If Expanded, specify desired ID or OD of non QF end.
- Specify if different end style required. Options are: flanged (ANGFL or FFL) and raw (RAWID or RAWOD).
- Must be within maximum opened dimension (.3"), or will be priced as reducer.

XD-QF Machine Adapter

Ø in	XD-QF Machine Adapter, 14ga 4249-XX00-100000
8	\$48.30
9	\$51.00
10	\$54.40
11	\$57.80
12	\$57.80
13	\$61.40
14	\$61.40
15	\$64.20
16	\$64.20
17	\$70.80
18	\$70.80
20	\$73.20
22	\$80.40
24	\$92.70

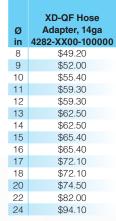


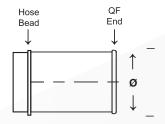
Adapters can only be expanded up to .3" above the nominal diameter size ("A" dimension). Expansions larger than .3" should be ordered as a reducer.



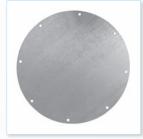
- Used to connect to rubber hose.
- Will not work with metal flex hose.

XD-QF Hose Adapter









- End Caps enable users to close off taps for future use.
- Flanged End Plates are flat plate with Angle Flange hole pattern.

XD End Cap / End Plate

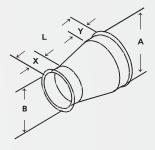
Q ii	4151-XX00-100000	XD-ANGFL End Plate, 14ga	Plate, 12ga 2153-XX00-
	4151-XX00-100000	, ,	
		4153-XX00-100000	100000
8	\$32.20	\$15.50	\$16.70
Ç	**	\$17.20	\$18.60
1		\$20.50	\$22.10
1	\$38.90	\$26.80	\$28.90
1	\$38.90	\$26.80	\$28.90
1	\$41.50	\$33.30	\$35.90
1	\$41.50	\$33.30	\$35.90
1	\$43.60	\$45.40	\$48.90
1	\$43.60	\$45.40	\$48.90
1	\$46.20	\$48.00	\$51.70
1	\$46.20	\$48.00	\$51.70
2	\$49.20	\$50.40	\$54.30
2	\$50.90	\$56.00	\$60.40
2	\$58.60	\$60.20	\$64.90
2	6	\$83.70	\$90.30
2		\$92.30	\$99.50
3		\$101.00	\$109.00
3	2	\$106.00	\$114.40
3	1	\$114.60	\$123.60
3		\$118.00	\$127.30
3		\$119.80	\$129.20
4		\$128.30	\$138.40
4		\$132.00	\$142.40
4	1	\$138.90	\$149.80
4		\$145.20	\$156.70
4	3	\$151.70	\$163.60



- When ordering specify A,B.
- Specify reducer end style.
- X & Y are standard 2" long nominal.
- QF length (L)= A-B+6", 7" min.
- FL length (L)= A-B+8", 9" min.
- If flanged, vanstone ends with rotational flanges standard.
 If welded flanges requested, clocked location must be specified.

XD Reducer

ø	XD-QF Reducer, 14ga	XD-ANGFL Reducer, 14ga	XD-ANGFL Reducer, 12ga
in	4222-XXXX-100000	4822-XXXX-100000	2822-XXXX-100000
8	\$80.20	\$98.10	\$114.10
9	\$90.90	\$110.70	\$128.90
10	\$92.30	\$114.20	\$132.70
11	\$108.90	\$132.80	\$154.60
12	\$108.90	\$138.40	\$160.20
13	\$129.80	\$165.10	\$191.10
14	\$129.80	\$167.80	\$193.80
15	\$179.00	\$218.80	\$254.60
16	\$179.00	\$231.60	\$267.40
17	\$186.80	\$253.50	\$290.80
18	\$186.80	\$256.50	\$293.80
20	\$198.50	\$275.40	\$315.10
22	\$226.00	\$309.80	\$355.00
24	\$249.00	\$335.10	\$384.90
26		\$351.60	\$389.50
28		\$397.10	\$439.40
30		\$433.00	\$479.40
32		\$479.80	\$532.20
34		\$525.30	\$583.40
36		\$580.00	\$645.00
38		\$636.10	\$707.80
40		\$704.30	\$784.40
42		\$758.10	\$845.20
44		\$794.10	\$885.40
46		\$829.70	\$925.10
48		\$865.60	\$965.10



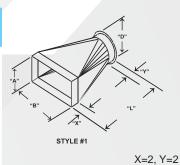
Any Reducer with B end smaller than 8" will be hybrid. Smaller section will be a lighter gauge.

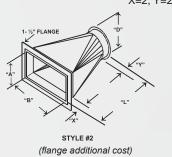


*NOTE: Minimum L = B x .75. If less, square to square transition will be provided. 7" minimum L allowable for Sq to Rd and 4" L minimum allowable for Sq to Sq.

XD Transition Rectangular to Round

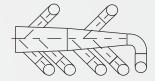
	XD-QF Transition,	XD-ANGFL Transition,	XD-ANGFL Transition,
Ø	14ga	14ga	12ga
in	4225-XXXX-1XX000	4825-XXXX-1XX000	2825-XXXX-1XX000
8	•	•	•
9	•	•	•
10	•	•	•
11	•	•	•
12	• Con	tact ·	•
13			•
14	. Nor	nab .	•
15	· fo	r ·	•
16		-	•
17	• pric	ing •	•
18	•	•	•
20	•	•	•
22	•	•	•
24	•	•	•
26		•	•
28		•	•
30		•	•
32		•	•
34		•	•
36		•	•
38		•	•
40		•	•
42		•	•
44		•	•
46		•	•
48		•	•







Custom manifolds are available. Contact our sales office for your particular needs.



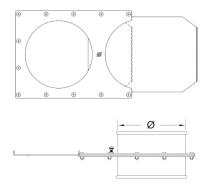




- Manually operated blast gate.
- Body is 10 gauge galvanized steel. Transition available in 14ga or 12ga (flanged only).
- If flanged, vanstone ends with rotational flanges standard. If welded flanges requested, clocked location must be specified.

XD Blast Gate Manual

Ø in	XD-QF Manual Blast Gate, 14ga 4240-XX00-100000	XD-ANGFL Manual Blast Gate, 14ga 4840-XX00-100000	XD-ANGFL Manual Blast Gate, 12ga 2840-XX00-100000
8	\$337.50	\$342.80	\$356.30
9	\$391.50	\$396.70	\$412.30
10	\$445.50	\$450.60	\$468.40
12	\$580.50	\$591.30	\$614.50
14	\$715.50	\$726.40	\$755.00
16	\$796.50	\$829.70	\$861.50
18	\$918.00	\$952.30	\$989.00
20	\$999.00	\$1,038.10	\$1,078.10
22	\$1,134.00	\$1,172.90	\$1,218.20
24	\$1,269.00	\$1,304.60	\$1,355.40
26		\$1,471.60	\$1,528.30
28		\$1,609.70	\$1,671.80
30		\$1,721.80	\$1,788.20
32		\$1,831.70	\$1,902.50
34		\$1,918.10	\$1,992.10
36		\$1,978.10	\$2,054.30
38		\$2,278.80	\$2,366.80
40		\$2,726.60	\$2,832.90





Automatic energy saving blast gates operated by double-acting compressed air cylinders. Cylinders are controlled by electrically-connected solenoid to machines or remote

reduces air loss and friction in operation. 120V control circuit and 75psi minimum air pressure. Optional 24V DC or AC control circuit available.

• APPLICATION: Gates are used as energy saving

switch. Gates are constructed of galvanized metal and a special sealing device that

- devices for industrial dust extraction where extraction is not always needed and where manual control needs to be eliminated.
- Single cylinder: 8". Double cylinder 9" to 22".
- All auto blast gates have cylinders with metal body and steel rod. Solenoid has plastic housing.

XD Blast Gate NFES Automatic

Ø in	XD-QF Auto Blast Gate, 14ga 4245-XX00-100000	XD-ANGFL Auto Blast Gate, 14ga 4845-XX00-100000	XD-ANGFL Auto Blast Gate, 12ga 2845-XX00-100000
8	\$1,014.10	\$1,032.90	\$1,071.20
9	\$1,061.20	\$1,082.10	\$1,122.10
10	\$1,090.80	\$1,113.70	\$1,154.80
12	\$1,120.20	\$1,154.20	\$1,196.50
14	\$1,249.90	\$1,289.40	\$1,336.50
16	\$1,415.00	\$1,480.00	\$1,533.40
18	\$1,521.10	\$1,592.10	\$1,649.50
20	\$1,650.80	\$1,729.90	\$1,792.20
22	\$1,709.80	\$1,794.00	\$1,858.50
	* /		

All cylinders are magnetic.



Reed Switch Assembly 1.06

Part No.	Price Per Assembly	
3245-0000-RSW106	\$91.20	

- Optional position (open/closed) sensing switch with indicator light.
- Assembly includes two switches, one indicating open position and one indicating closed position.
- Applies to both styles of automatic Blast Gate.

Rubber Hose, Black

Ø	Part No.	Price PER FOOT
1"	3280-0100-000000	\$4.50
1.5"	3280-1500-000000	\$4.50
2"	3280-0200-000000	\$4.90
2.5"	3280-2500-000000	\$6.20
80mm	3280-0315-000000	\$7.30
3.5"	3280-3500-000000	\$7.60
4"	3280-0400-000000	\$7.60
5"	3280-0500-000000	\$9.70
6"	3280-0600-000000	\$12.30
7"	3280-0700-000000	\$14.30
8"	3280-0800-000000	\$15.80
9"	3280-0900-000000	\$23.70
10"	3280-1000-000000	\$24.50
12"	3280-1200-000000	\$25.30
14"	3280-1400-000000	\$37.90
16"	3280-1600-000000	\$43.60
18"	3280-1800-000000	\$49.50
20"	3280-2000-000000	\$52.80
24"	3280-2400-000000	\$70.10



- Black thermoplastic flexible rubber hose reinforced with spring steel wire helix.
- Order hose clamps separately.
- •1" 12" is sold in 5' increments up to 50' maximum.
- 14" 24" sold in 5' increments up to 25' maximum.
- Use #3282 Hose Adapter with this hose.

Rubber Hose, Clear

Ø	Part No.	Price per Foot
2"	3280-0200-600000	\$5.80
2.5"	3280-0250-600000	\$7.10
80mm	3280-0315-600000	\$8.50
4"	3280-0400-600000	\$9.80
5"	3280-0500-600000	\$11.30
5.5"	3280-0550-600000	\$11.80
6"	3280-0600-600000	\$14.60
7"	3280-0700-600000	\$16.30
8"	3280-0800-600000	\$18.80
9"	3280-0900-600000	\$25.90
10"	3280-1000-600000	\$28.20
12"	3280-1200-600000	\$28.60
14"	3280-1400-600000	\$42.20
16"	3280-1600-600000	\$48.80



- Clear polyurethane flexible rubber hose reinforced with a bronze coated spring steel wire helix, manufactured with FDA acceptable materials.
- Order hose clamps separately.
- •2" 12" is sold in 5' increments up to 50' maximum.
- •14" 16" sold in 5' increments up to 25' maximum.
- •Use #3282 Hose Adapter with this hose.

Static Dissipative Urethane Hose, Clear

Ø	Part No.	Price per Foot
80mm	3279-0315	\$14.80
4"	3279-0400	\$17.50
5"	3279-0500	\$23.40
6"	3279-0600	\$25.90
8"	3279-0800	\$28.90
10"	3279-1000	\$36.70
12"	3279-1200	\$51.50

All hose products are standard QF thicknesses



- Medium weight clear static dissipative polyurethane hose reinforced with bronze coated spring steel wire helix, manufactured with FDA acceptable materials.
- Great abrasion resistance & high tear strength as well as superior chemical resistance, excellent flexibility, and tolerance for applications with wide temperature ranges.
- Order hose clamps separately.



Stainless Steel Only



Hose Clamp

Ø in	Part No.	SS 304 Price	Weight
2	3285-0200	\$2.70	0.05
3	3285-0300	\$2.70	0.06
4	3285-0400	\$4.40	0.07
5	3285-0500	\$4.40	0.08
6	3285-0600	\$5.50	0.09
7	3285-0700	\$6.50	0.10
8	3285-0800	\$8.20	0.14
9	3285-0900	\$8.90	0.15
10	3285-1000	\$9.30	0.17
12	3285-1200	\$13.40	0.20
14	3285-1400	\$14.30	0.25
16	3285-1600	\$16.20	0.30
18	3285-1800	\$17.20	0.40
20	3285-2000	\$18.40	0.45
22	3285-2200	\$20.10	0.50
24	3285-2400	\$21.90	0.60



 Conforms to hose's wire helix for more secure fit.

Bridge Clamp for Hose

Ø in	Part No.	SS 304 Price	Weight
2	3288-0200	\$6.00	0.05
2.5	3288-0250	\$6.50	0.06
3	3288-0300	\$6.40	0.07
4	3288-0400	\$7.10	0.09
5	3288-0500	\$7.80	0.10
6	3288-0600	\$9.70	0.14
7	3288-0700	\$11.00	0.15
8	3288-0800	\$11.90	0.17
10	3288-1000	\$14.00	0.25
12	3288-1200	\$20.20	0.30

Rigid Flex Steel Hose ◊

riigia i lex oteel riose v						
Ø in	Part No.	Galv Price per Foot	Weight			
1.5	3281-1500	\$5.40	1.00			
2	3281-0200	\$6.80	1.30			
2.5	3281-2500	\$7.10	1.60			
3	3281-0300	\$10.40	2.00			
4	3281-0400	\$13.10	2.60			
5	3281-0500	\$16.00	3.00			
6	3281-0600	\$19.70	3.60			
7	3281-0700	\$22.40	4.00			
8	3281-0800	\$25.70	4.60			
9	3281-0900	\$28.70	5.30			
10	3281-1000	\$30.90	5.90			
12	3281-1200	\$37.50	7.00			
14	3281-1400	\$43.30	8.10			



- Flexible rigid steel hose for higher temperature or abrasive material.
- Available in Galvanized or Stainless Steel.
- •1.5" 6" is sold in 5' increments up to a 25' maximum length.
- 7" 14" hoses are sold in 5' increments only. If lengths longer than 5' are needed, Nordfab can supply 5' hose assemblies with Quick-Fit ends to easily connect additional assemblies.
- · Comes with raw ends standard.
- QF or Angle Flange ends can be attached (additional charge).

- ♦ Items may take longer than standard lead times.
- * Do **NOT** use #3285 SS Hose Clamps with these hoses (3281 & 3283).

 Alternate ends are available for these hoses upon request at additional cost of \$10.00 per end plus the cost of a machine adapter. If flange required, see pg. 9.

All hose products are standard QF thicknesses

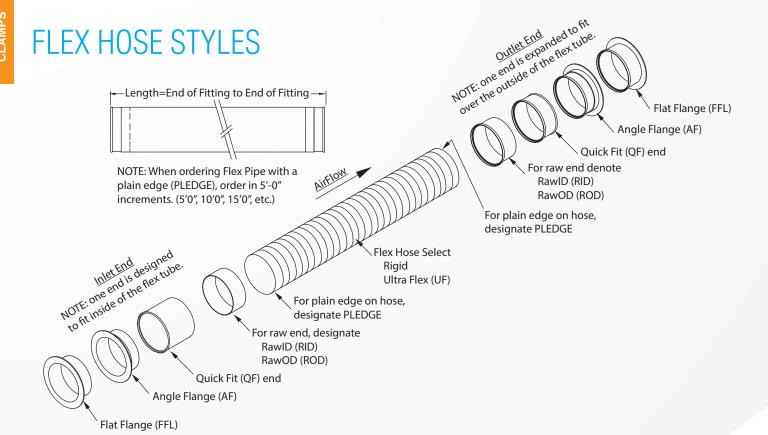
Ultra Flex Steel Hose ◊

Ø in	Part No.	Part No. Galv Price per Foot	
3	3283-0300	\$19.50	2.15
4	3283-0400	\$19.50	2.65
5	3283-0500	\$24.30	3.05
6	3283-0600	\$29.70	3.55
7	3283-0700	\$35.00	4.15
8	3283-0800	\$39.60	4.55

♦ Items may take longer than standard lead times.



- Special flex-steel hose.
- · Available in Galvanized or Stainless Steel.
- •3" 6" is sold in 5' increments up to a 25' maximum length.
- 7" 8" hoses are sold in 5' increments only. If lengths longer than 5' are needed, Nordfab can supply 5' hose assemblies with Quick-Fit ends to easily connect additional assemblies.
- · Comes with plain ends standard.
- QF or Angle Flange ends can be attached (additional charge).

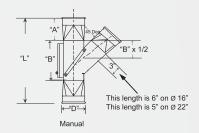




- High efficiency, economical method of diverting flow of material or air.
- Constructed of heavy 3/16" thick and painted black metal with welded seams. Transition available in 14ga or 12ga (flanged only).
- Supplied with heavy duty flange bearings and rubber seal in door.
- Manual Open and Close.
- 45° angle only.
- Other sizes available upon request.
- If flanged, vanstone ends with rotational flanges standard.
 If welded flanges requested, clocked location must be specified.

XD Manual Diverter Valve

Ø in	XD-QF Manual Diverter Valve 4235-XX45-100000	XD-ANGFL Manual Diverter Valve 4835-XX45-100000	XD-ANGFL Manual Diverter Valve 2835-XX45-100000
8	\$1,936.50	\$1,964.70	\$2,036.40
9	\$2,023.50	\$2,054.70	\$2,129.70
10	\$2,107.10	\$2,141.40	\$2,219.50
11	\$2,244.70	\$2,282.30	\$2,365.50
12	\$2,244.70	\$2,295.80	\$2,378.90
13	\$2,453.60	\$2,508.60	\$2,599.50
14	\$2,453.60	\$2,512.90	\$2,603.70
15	\$2,662.70	\$2,722.90	\$2,821.50
16	\$2,662.70	\$2,760.20	\$2,858.80
17	\$2,873.40	\$2,975.90	\$3,082.40
18	\$2,873.40	\$2,980.00	\$3,086.40
20	\$2,998.70	\$3,117.30	\$3,228.30
22	\$3,124.10	\$3,250.40	\$3,366.20
24	\$3,592.70	\$3,722.30	\$3,855.40





- •High efficiency, economical method of diverting flow of material or air.
- Constructed of heavy 3/16" thick and painted black metal with welded seams. Transition available in 14ga or 12ga (flanged only).

XD Automatic Diverter Valve

Ø in	XD-QF Automatic Diverter Valve 4236-XX45-100000	XD-ANGFL Auto Diverter Valve 4836-XX45-100000	XD-ANGFL Auto Diverter Valve 2836-XX45-100000
8	\$2,962.20	\$2,990.40	\$3,100.20
9	\$3,073.70	\$3,104.90	\$3,218.80
10	\$3,284.30	\$3,318.70	\$3,440.30
11	\$3,493.20	\$3,530.80	\$3,660.20
12	\$3,493.20	\$3,544.30	\$3,673.70
13	\$3,702.20	\$3,757.10	\$3,894.20
14	\$3,702.20	\$3,761.40	\$3,898.50
15	\$4,459.80	\$4,520.10	\$4,685.30
16	\$4,459.80	\$4,557.40	\$4,722.50
17	\$4,842.90	\$4,945.40	\$5,124.80
18	\$4,842.90	\$4,949.40	\$5,128.80
20	\$5,194.70	\$5,313.30	\$5,505.70
22	\$5,933.00	\$6,059.40	\$6,279.10
24	\$6,823.10	\$6,952.70	\$7,205.40

- •Supplied with heavy duty flange bearings and rubber seal in door.
- •Power Open and Close.
- •Minimum 75psi.
- •45° angle only.
- •Other sizes available upon request.
- •Solenoid has plastic housing. Bearing is iron.
- If flanged, vanstone ends with rotational flanges standard. If welded flanges requested, clocked location must be specified.



Reed Switch Assembly 2.50

 Part No.
 Price PER ASSEMBLY

 3203-0000-RSW250
 \$97.00



Cylinder with reed switches attached shown at left

- Optional position (open/closed) sensing switch with indicator light.
- Assembly includes two switches, one indicating open position and one indicating closed position.
- Applies to both styles of automatic Diverter Valves.

All cylinders are magnetic



- Used when exhausting from fans or stacks through roof.
- Eliminates back pressure on fan while providing weather protection.
- Flange for guide wire attachment.
- If roof connection end is flanged, vanstone ends with rotational flanges standard. If welded flanges requested, clocked location must be specified.



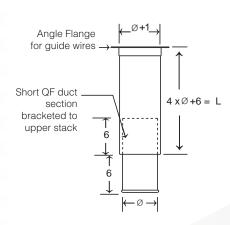
XD	Jet	Cap

	Ø in	Stackhead, 14ga 4204-XX00-100000	Stackhead, 14ga 4804-XX00-100000	Stackhead, 12ga 2804-XX00-100000
Ī	8	\$195.00	\$204.50	\$243.50
	9	\$216.40	\$226.80	\$270.10
	10	\$239.90	\$251.40	\$299.40
	11	\$281.90	\$294.40	\$350.80
	12	\$281.90	\$298.90	\$355.30
	13	\$335.00	\$353.30	\$420.30
	14	\$335.00	\$354.80	\$421.80
	15	\$393.00	\$413.10	\$491.70
	16	\$393.00	\$425.50	\$504.10
	17	\$533.10	\$567.30	\$673.90
	18	\$533.10	\$568.70	\$675.30
	20	\$670.40	\$709.90	\$844.00
	22	\$746.30	\$788.50	\$937.70
	24	\$858.30	\$901.50	\$1,073.10
	26		\$1,002.80	\$1,192.30
	28		\$1,131.60	\$1,345.90
	30		\$1,229.70	\$1,462.90
	32		\$1,391.10	\$1,656.00
	34		\$1,422.20	\$1,692.40
	36		\$1,451.60	\$1,726.80
ı	38		\$1,669.00	\$1,986.10
	40		\$1,788.90	\$2,129.30
,	אח	Jet Can		

XD No-Loss Stackhead

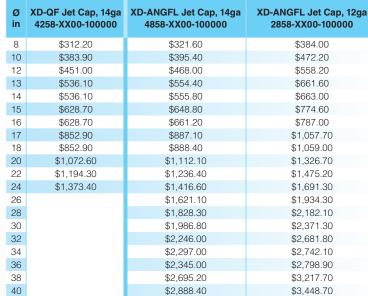
XD-QF No-Loss XD-ANGFL No-Loss

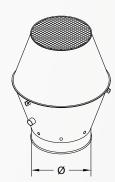
XD-ANGFL No-Loss



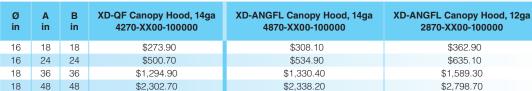


- Prevents rain from entering ductina
- Inner funnel piece allows rain to drain out of ductwork even when system is not running.
- Has three angle brackets for guide wire attachment.
- If flanged, vanstone ends with rotational flanges standard. If welded flanges requested, clocked location must be specified.



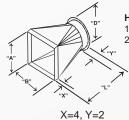


Canopy Hood





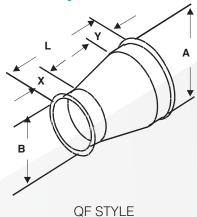
- Specify opening size. Hemmed
- If other opening sizes needed, please see Transition.

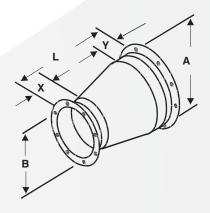


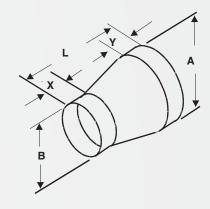
Hood Design Basis:

- 150 fpm capture velocity
- 2 ft. distance from source

Reducer Styles







TYLE ANGLE FLANGED STYLE

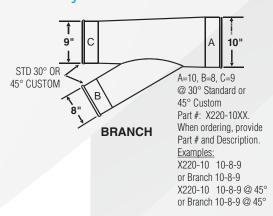
RAW END STYLE

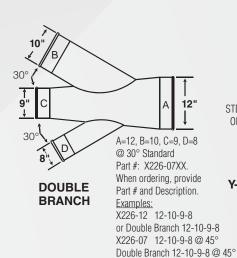
Reducers are produced by the following formula:

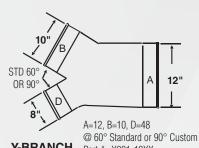
QF LENGTH = (A-B) + 6" [7" MIN] Flanged LENGTH = (A-B) + 8" [9" MIN] NOTE: Any combination of the above styles are available upon request. Please specify all the required dimensions and all reducer end configurations (Raw ID, Raw OD, QF, Flange, etc.).

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

Branch Styles







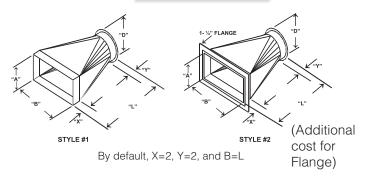
Y-BRANCH
Part #: X221-12XX.
When ordering, provide
Part # and Description.
Examples:
X221-12 12-10-8

or Y- Branch 12-10-8 X221-12 12-10-8 @ 90° or Y- Branch 12-10-8 @ 90°

Transition Styles

Transition Rectangular to Round





Transition Square to Square



- L must be at least 75% of B or it will be Square to Square.
- L of Square to Round (at least 7" minimum, larger in some instances).
 L of Square to Square (4" minimum).

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

Specify Rectan	gle End:	Flanged	Raw End I.D.	Raw End O.D.	
Flange Type:		Angle Bar	Flat Bar	Sheet Metal	
Specify Round	End:	QF	Flanged	Hose Conn.	Raw I.D. Or O.D
NOTE:	If no hole patter	n is supplied for	flanges, they will be	supplied blank to b	e field drilled.

L = to the greater of B or D.

Item #	Qty.	D	А	В	X Std 2"	Y Std 2"	L	Gauge	Flange Material	Flange Dwg	Special Notes

Specify dimensions A, B, D, and L. Also available with flanged connections. Specify flange pattern. If no hole pattern is supplied for flanges, they will be supplied blank to be field drilled.

Standard flange material is 1-1/2 x 3/16" THK angle. Diameter sizes exceeding 24" will be supplied with a flange. Standard length is equal to B dimension, unless otherwise specified. Prices are determined by the rectangular dimension of style 1. Add for Flange on style 2.

NOTE: Square to square transitions are made when the customer's specified length is less than 75% of the B dimension.

Nordfab Drawing Service

Provide Nordfab with basic information about the job:

- Material conveyed
- Machine type and placement
- Recommended velocity

And Nordfab will provide you with an AutoCAD or PDF file of the drawing, complete with a list of the XD parts set forth in the drawing.

Part No.		Price
DS/MC	Drawings priced by machine connection	\$25.00/connection

^{*} Minimum drawing service charge of \$150.00

XD Parts Take-off Worksheet

				Qty																								
<u>a.</u>	Date	Project Date		Branches, Double Branches, Y-Branches	A B C																							
			Reducers, Transitions	etc.																								
	lect		H	Adapters																								
	Pro_		Flex	Clamps																								
			H Ş	Hose																								
		Phone	- Po	ਠ																								
			Angle	Adapters																								
Email _	_ Phone		Machine	Adapters																								
			Blast	Gates																								
			SMS	30°																								
				45°																								
			Elbows	。 09																								
				.06																								
ате	lny			Pipe																								
Your name_	Company		8	⊇. ⊆	80	6	10	F	12	13	14	15	16	17	18	20	22	24	56	28	30	32	34	36	38	40		

SIZING A QF PIPE SYSTEM

Nordfab offers assistance to those salespeople and customers who have never designed a piping system. We can assist you in determining the correct pipe size and configuration that will supply you with the correct flow. Please call an Inside Sales Representative for assistance.

Branch Typ. @ 30°

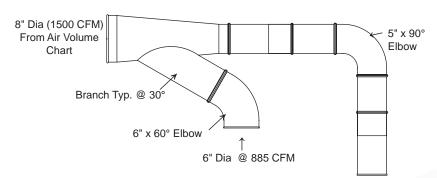
toward the filter.
s back to join
n will you need?

5"x 90°
Elbow

6" x 60° Elbow

6" Dia @ 885 CFM

EXAMPLE: Always work from your machines back toward the filter. Suppose that you have a 5" drop that rises and runs back to join with a 6" drop as sketched above. What size branch will you need?



The 5" pipe carries 615 CFM at 4500 FPM, (See chart). The 6" pipe will need 885 CFM at the same velocity (see chart). Added together, you have a total of (615 + 885) 1500 CFM coming together.

5" Dia @ 615 CFM

Looking again at the chart under 4500 FPM, you find that 1500 CFM is not listed, but falls very close to the 1570 CFM listed for an 8" pipe. This indicates that the 5" joined to the 6" will require an 8" pipe to carry all of the material at the right velocity. The branch, therefore, will be 8" on the downstream end reducing down to a 5" with a 6" branching off of it. That is listed as an 8-6-5 branch.

USING THE CFM/FPM CHART

This chart allows you to choose the correct pipe size for the CFM that is required. Different materials need to be conveyed at different velocities to prevent the material from falling out of the air stream.

For example, wood chips and saw dust flow well at 4500 feet per minute. Referring to the chart, a 10" pipe will convey 2455 CFM at 4500 FPM. This indicates that a 10" pick-up on a machine will use 2455 CFM from the filtering system. Or working in reverse, if you know that a machine will require approximately 2500 CFM to remove the waste, then you should design a 10" pipe for the application.

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			
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	36302	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			
42	19242	24052	28863	33673	38483	43294	48104	52915	57725	62535	67346			
44	23081	26397	31677	36956	42236	47515	52795	58074	63354	68633	73913			
46	25132	28852	34622	40392	46163	51933	57703	63474	69244	75014	80785			
48	27270	31415	37698	43981	50264	56547	62830	69113	75396	81679	87962			

5" Dia @ 615 CFM

XD PRODUCTS CONDITIONS OF SALE

General Conditions of Sale

The Terms and Conditions of acceptance of sale as set forth herein, Nordfab, LLC (Nordfab)'s Order Acknowledgment and all drawings, specifications, and descriptions, if any, and any other documents attached hereto or transmitted herewith and incorporated herein by reference, constitute the entire agreement between Nordfab and the Buyer (hereinafter "the Agreement"). Nordfab's acceptance of Buyer's order is expressly conditioned upon Buyer's consent to the Terms and Conditions set forth herein. In no event shall any conflicting or different terms in Buyer's order become part of this Agreement unless Nordfab explicitly agrees to such in writing or expressly incorporates such terms into this Agreement. The failure of Nordfab to object to any provision in conflict with these Terms and Conditions whether contained in Buyer's purchase order or otherwise, shall not be construed as a waiver of the provisions of the Agreement or the Terms and Conditions contained herein nor as an acceptance thereof. Any prior oral or written statements or proposals provided by Nordfab are preliminary only unless otherwise agreed and confirmed in writing. If any of the terms and conditions contained in any prior oral or written statements or proposals by Nordfab conflict with these General Terms and Conditions of Sale, these General Terms and Conditions of Sale shall prevail.

This Agreement is deemed to be executed and performed in the State of North Carolina, and shall be governed, construed, and enforced in accordance with the laws of the State of North Carolina, excluding that State's conflict of law principles, as to all matters arising out of or relating to this Agreement. Nordfab and the Buyer exclude the application of the 1980 United Nations Convention on Contracts for the International Sale of Goods if otherwise applicable. In the event of any controversy, claim, or dispute between Nordfab and Buyer arising out of or relating to this Agreement, such controversy, claim, or dispute shall be tried exclusively in the General Court of Justice, Superior Court Division for the State of North Carolina with venue being in Davidson County, North Carolina. If any provision of this Agreement is held to be illegal, invalid or otherwise unenforceable in a judicial proceeding, then such provision shall be severed and shall be inoperative provided that the fundamental terms and conditions of this Agreement remain legal and enforceable, the remainder of this Agreement shall remain operative and binding on Nordfab and Buyer.

Limited Warranty

Nordfab warrants that the products sold hereunder conform to any applicable drawings and specifications attached hereto and will be free from any defects in material and workmanship which become apparent under normal use. This limited warranty applies to the original Buyer only and is non-transferrable. To make a claim under this limited warranty, Buyer must give written notice to Nordfab within a period of 12 months from the date of installation or 12 months from the date of shipment, whichever period first expires. If, within that period, Nordfab receives from Buyer written notice of any alleged defect in or non-conformance of any product covered by this limited warranty and if, in Nordfab's sole judgment, the product does not conform with this limited warranty, then Buyer shall, at Nordfab's request, return the part or product F.O.B. Nordfab's shipping point. Nordfab, at its sole option and expense, shall then repair or replace the defective part or product or repay Buyer the full price paid for such part or product. Dismounting of defective or nonconforming parts and remounting of any repaired or replaced parts is at Buyer's sole expense. This Limited Warranty, as it relates to the delivery of spare parts or replacement for non-conforming parts, expires when the limited warranty for the original product or equipment expires. Any repayment of purchase price shall be without interest. NORDFAB'S SOLE RESPONSIBILITY, AND BUYER'S EXCLUSIVE REMEDY HEREUNDER, SHALL BE LIMITED TO SUCH REPAIR, REPLACEMENT, OR REPAYMENT OF THE PURCHASE PRICE AS ABOVE PROVIDED. NO OTHER WARRANTIES, EXPRESS, STATUTORY, OR IMPLIED, ARE MADE AND ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY, QUALITY, OR FITNESS FOR PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. This limited warranty does not cover and Nordfab makes no warranty with respect to:

- A) failures not reported to Nordfab within the warranty period specified above;
- B) failure or damage due to misapplication, abuse, improper installation or abnormal conditions of any kind, including, but not limited to, temperature, dirt or other corrosive matter;
- C) failures due to operation, either intentional or otherwise, above rated capacities or in an otherwise improper manner;
- p) products which have been in any way tampered with or altered by anyone other than an authorized representative of Nordfab;
- E) products damaged in shipment or otherwise without fault of Nordfab;
- expenses incurred by Buyer in an attempt to repair, rework, or replace any alleged defective product; and
- G) defects in material and workmanship which are attributable to drawings and specifications provided by Buyer.

Terms of Payment

Unless agreed to in writing by Nordfab's Sales Manager, the terms of this Agreement are NET 30. If the full purchase price is not paid by Buyer NET 30, then interest shall accrue at the rate of 1.5% per month. Buyer agrees that if Nordfab is required to bring suit to collect any sums due Nordfab under this Agreement, then Buyer shall be responsible for all costs and expenses incurred by Nordfab, including but not limited to Nordfab's reasonable attorney's fees.

Claims for Shortages

Any claims for loss, breakage (obvious or concealed), or shortage are Buyer's sole responsibility and should be made to the carrier immediately. Nordfab will render Buyer reasonable assistance in securing satisfactory adjustment of such claims. Any notice of shortages or other errors must be made in writing to Nordfab within 30 days after receipt of shipment. Failure to give such notice shall constitute unqualified acceptance of the product and a waiver by Buyer of all claims against Nordfab for loss, breakage or shortage. Risk of loss for damage to products sold under this Agreement passes to Buyer when the carrier takes custody of any of the products purchased under this Agreement regardless of who pays shipping costs.

Buyer Responsibility

Nordfab products are sold as components only.

Nordfab products are manufactured to meet the customer's designed solution for dust extraction. Air flow equipment design and performance is the responsibility of the customer.

No installation is included. It is the customer's responsibility to ensure that the hanging method is based on the proper load calculations per regional codes and regulations.

Limitation of Liability

Nordfab's sole responsibility and Buyer's sole and exclusive remedy with respect to any alleged breach of the limited warranty, as set forth above, or any other claim under this Agreement shall be limited to repair, replacement or repayment of the purchase price at Nordfab's sole discretion. Nordfab's total responsibility for any and all claims, damages of any nature, losses, liabilities or costs of corrective efforts, including, but not limited to, those relating to any limited warranty or claim arising out of or related to performance of this Agreement or the products covered hereunder or the performance thereof shall not exceed the total purchase price of the product(s) covered by this Agreement. IN NO EVENT SHALL NORDFAB BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER; INCLUDING, BUT NOT LIMITED TO, LOSS OF USE OF PRODUCTION FACILITIES OR EQUIPMENT, LOST PROFITS, PROPERTY DAMAGE, EXPENSE INCURRED IN RELIANCE ON NORDFAB'S PERFORMANCE HEREUNDER, OR LOST PRODUCTION, WHETHER SUFFERED BY BUYER OR ANY THIRD PARTY. Nordfab specifically disclaims all liability for any and all costs, claims, demands, charges, expenses or other damages, either direct or indirect, incident to all property damages arising out of any cause of action based on strict liability.



Nordfab Quick-Fit and XD Ducting Resources

Take advantage of our online resources at www.nordfab-us.com:



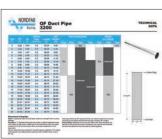
Product Catalog
Part no. 3610-0400-206000



Applications



Clampdown Sheet Part no. 3610-0400-400000



Product Technical Data



Oil Mist & Cutting Fluid
Duct System



Nordfab Drawing Service



Manifold Spec. Sheet



Grain Industry Applications



Recycling Industry Applications



Woodworking Applications

Your Local Ducting Expert: