



QUICK-FIT

Clamp-Together Ducting



THE WORLD'S FASTEST DUCTING

- **Easy & fast to install,**
just clamp together, no rivets, screws or welding needed.
Cuts installation and downtime by more than 45%
- **Adaptable to your existing ductwork**
- **Leak-tight laser welded seams,**
Smooth, fully welded seams prevent leaks, snags, and possible "bug harbors"
- **Easy Clean-Outs**
Easy to remove, clean-out and reinstall - without tools
- **Re-useable,**
easy to modify and easy to move as your needs change
- **Available in Galvanized and Stainless Steel**
- **Local dealer support**
- **Nordfab provides:**
quick delivery, order tracking, and lower freight costs

PRICE CATALOG

2011 ID: 020311

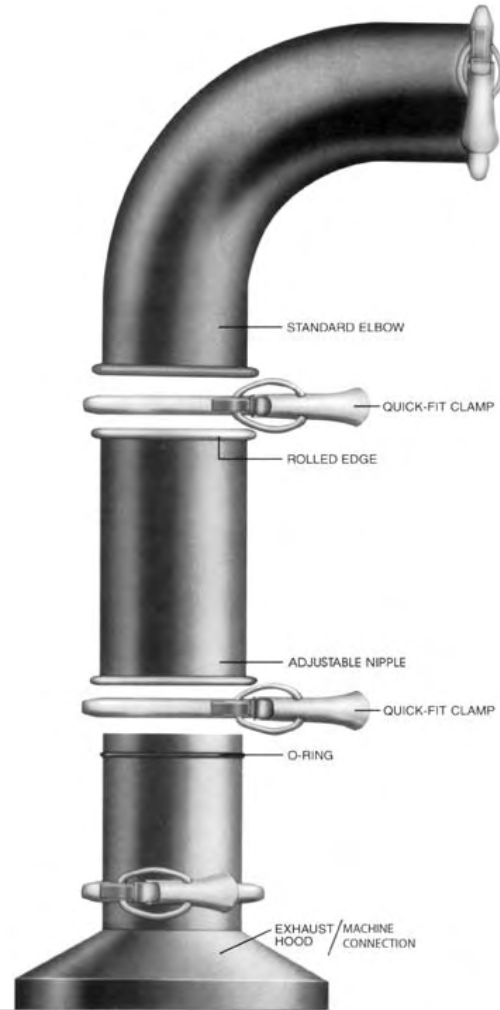


THE WORLD'S FASTEST DUCTING

Nordfab's Quick-Fit (Q-F) is "The World's Fastest Ducting" in every aspect of your dust collection installation. From the time you first need design or quotation assistance through delivery and installation, to after sales service and replacement parts, Nordfab lives up to being "The World's Fastest Ducting"

- Q-F clamps together in seconds without welds, bolts, screws, flanges, special tools, precise measurements or specialized skills. It cuts installation time – and duct-related downtime -- by more than 40% over traditional ductwork.
- Our nationwide distribution network understands the urgency of your requests and has the tools and training to design and quote a system very quickly.
- Nordfab ships most Q-F orders in four days or less. And if you have an emergency, we can often get stock or galvanized standard parts out on the day you call.
- Production in both the eastern and western US means quicker and cheaper transit to your job site.
- Once your Q-F ducting is installed, you can quickly and easily take it apart for cleaning or to reconfigure for any floor plan changes.

Nordfab Quick-Fit comes in both galvanized and stainless steel in diameters from 3" to 24". It is ideal for most dust, mist and fume collection applications. Make sure to visit www.ductingsystems.com to learn more reasons why Nordfab Quick-Fit is "The World's Fastest Ducting."




Enhanced Production Capabilities


Nordfab currently owns and operates a 65,000 square-foot office and manufacturing facility in Thomasville, NC and a 24,000 square-foot facility in Reno, Nevada. 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.

Our Reno facility significantly improves our order turn around time in the western half of the US. Our west coast sales representatives are also available until 6:00 p.m. EST to assist customers located in the eastern or central US.


Nordfab is ISO 9001:2008 registered, ensuring our dependability, quality, service, and delivery. We are also ISO 14001:2004 registered, ensuring we are minimizing our impact on the environment.



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 Video available at ductingsystems.com

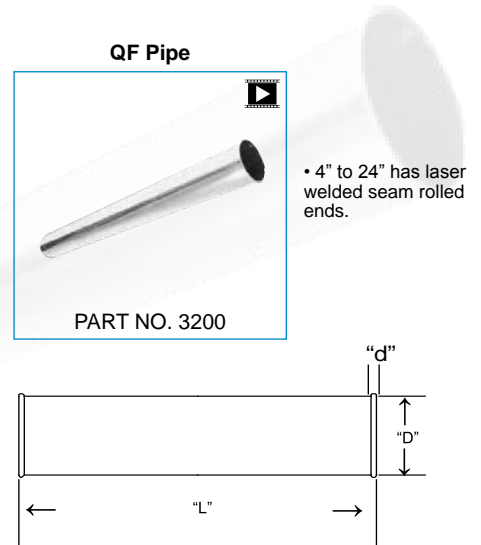
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 Video available at ductingsystems.com



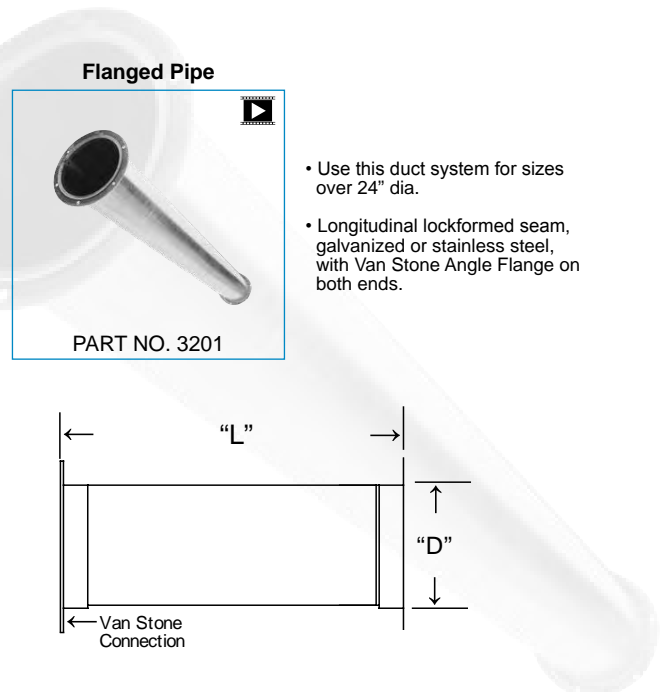
QF PIPE

Ø	PART NO.	ENDS	ID (IN.)	OD (IN.)	GAUGE GAL	GAUGE SS	ROLL (D)	LENGTH	PRICE GALV	PRICE SS	WEIGHT (GALV)
3"	3200-0300	QF	2.90	3.00	18	18	0.2	59.25"	\$25.60 #	\$54.00 #	4.00
4"	3200-0400	QF	3.86	3.93	22	22	0.2	59.25"	\$25.60 #	\$54.00 #	5.35
5"	3200-0500	QF	4.87	4.94	22	22	0.2	59.25"	\$28.10 #	\$59.30 #	6.65
6"	3200-0600	QF	5.89	5.96	22	22	0.2	59.25"	\$33.80 #	\$68.90 #	7.93
7"	3200-0700	QF	6.89	6.96	22	22	0.3	59.06"	\$41.40 #	\$86.20 #	11.70
8"	3200-0800	QF	7.88	7.95	22	22	0.3	59.06"	\$46.50 #	\$91.80 #	13.25
9"	3200-0900	QF	8.88	8.95	22	22	0.3	59.06"	\$50.30 #	\$104.60 #	14.92
10"	3200-1000	QF	9.89	9.95	22	22	0.3	58.75"	\$54.10 #	\$114.40 #	16.60
11"	3200-1100	QF	10.88	10.94	22	22	0.3	58.75"	\$64.90 #	\$136.30 #	18.10
12"	3200-1200	QF	11.97	12.04	22	22	0.4	58.75"	\$64.90 #	\$136.30 #	19.75
13"	3200-1300	QF	12.97	13.05	20	20	0.4	58.75"	\$83.50 #	\$173.50 #	21.40
14"	3200-1400	QF	13.96	14.04	20	20	0.4	58.75"	\$83.50 #	\$173.50 #	27.30
15"	3200-1500	QF	14.97	15.04	20	20	0.4	58.75"	\$108.40 #	\$213.10 #	29.25
16"	3200-1600	QF	15.97	16.04	20	20	0.4	58.75"	\$108.40 #	\$213.10 #	31.15
17"	3200-1700	QF	16.97	17.05	20	20	0.4	58.75"	\$119.50 #	\$255.50 #	33.09
18"	3200-1800	QF	17.96	18.04	20	20	0.4	58.75"	\$119.50 #	\$255.50 #	34.00
20"	3200-2000	QF	19.96	20.04	20	20	0.4	58.75"	\$143.40 #	\$306.10 #	38.00
22"	3200-2200	QF	21.97	22.05	20	20	0.4	58.75"	\$158.60 #	\$341.10 #	42.00
24"	3200-2400	QF	23.94	24.02	20	20	0.4	58.75"	\$182.50 #	\$392.30 #	45.82



FLANGED PIPE

Ø	PART NO.	ENDS	GAUGE GAL	GAUGE SS	LENGTH	PRICE GALV	PRICE SS	WEIGHT (GALV)
3"	3201-0300	FLANGE	18	18	59.25"	\$47.40	\$154.90	6.00
4"	3201-0400	FLANGE	22	22	59.50"	\$63.80	\$154.90	10.75
5"	3201-0500	FLANGE	20	22	78"	\$64.30	\$185.20	20.00
6"	3201-0600	FLANGE	20	22	78"	\$70.80	\$189.80	22.00
7"	3201-0700	FLANGE	20	22	78"	\$79.70	\$222.30	21.56
8"	3201-0800	FLANGE	20	22	78"	\$88.50	\$224.50	24.00
9"	3201-0900	FLANGE	20	22	78"	\$92.00	\$225.40	28.08
10"	3201-1000	FLANGE	20	22	78"	\$106.30	\$254.20	32.00
11"	3201-1100	FLANGE	20	22	78"	\$123.90	\$301.50	38.00
12"	3201-1200	FLANGE	20	20	78"	\$123.90	\$301.50	41.00
13"	3201-1300	FLANGE	20	20	78"	\$136.30	\$339.70	43.00
14"	3201-1400	FLANGE	20	20	78"	\$136.30	\$339.70	46.00
15"	3201-1500	FLANGE	20	20	78"	\$168.30	\$388.70	50.00
16"	3201-1600	FLANGE	20	20	78"	\$168.30	\$388.70	56.00
17"	3201-1700	FLANGE	20	20	78"	\$177.10	\$540.10	60.00
18"	3201-1800	FLANGE	20	20	78"	\$177.10	\$540.10	64.00
20"	3201-2000	FLANGE	20	20	78"	\$221.20	\$540.80	69.72
22"	3201-2200	FLANGE	20	20	78"	\$247.80	\$584.80	77.16
24"	3201-2400	FLANGE	20	20	78"	\$256.80	\$673.10	84.00
26"	3201-2600	FLANGE	20	20	78"	\$269.10	\$809.10	98.56
28"	3201-2800	FLANGE	20	20	78"	\$292.10	\$814.80	118.00
30"	3201-3000	FLANGE	18	20	78"	\$336.30	\$889.90	137.05
32"	3201-3200	FLANGE	18	20	78"	\$350.60	\$896.90	145.94
34"	3201-3400	FLANGE	18	20	78"	\$389.50	\$901.50	154.83
36"	3201-3600	FLANGE	18	20	78"	\$416.00	\$959.20	162.76
38"	3201-3800	FLANGE	18	20	78"	\$460.30	\$1,058.40	173.47
40"	3201-4000	FLANGE	18	20	78"	\$531.20	\$1,183.50	182.81



#-Denotes an item that is returnable. See page 59 for a full listing of returnable items.



QF Pipe 18ga



PART NO. 3200-XX18

Adj. Nipple 18ga



PART NO. 3202-XX18

QF 18GA

SS Not Available

QF Pipe 18ga

Ø	PART NO.	GAUGE GAL	LENGTH	PRICE
4"	3200-0418-100000	18	59.25"	\$33.30
5"	3200-0518-100000	18	59.25"	\$36.50
6"	3200-0618-100000	18	59.25"	\$43.90
7"	3200-0718-100000	18	59.0625"	\$53.80
8"	3200-0818-100000	18	59.0625"	\$60.50
9"	3200-0918-100000	18	59.0625"	\$65.50
10"	3200-1018-100000	18	58.75"	\$70.40
11"	3200-1118-100000	18	58.75"	\$84.40
12"	3200-1218-100000	18	58.75"	\$84.40
13"	3200-1318-100000	18	58.75"	\$108.60
14"	3200-1418-100000	18	58.75"	\$108.60
15"	3200-1518-100000	18	58.75"	\$140.90
16"	3200-1618-100000	18	58.75"	\$140.90
17"	3200-1718-100000	18	58.75"	\$155.40
18"	3200-1818-100000	18	58.75"	\$155.30
20"	3200-2018-100000	18	58.75"	\$186.50
22"	3200-2218-100000	18	58.75"	\$206.20
24"	3200-2418-100000	18	58.75"	\$237.30

Adj. Nipple 18ga

Ø	PART NO.	GAUGE GAL	LENGTH	PRICE
4"	3202-0418-100000	18	11 3/8"	\$20.10
5"	3202-0518-100000	18	11 3/8"	\$20.70
6"	3202-0618-100000	18	11 3/8"	\$21.20
7"	3202-0718-100000	18	11 1/8"	\$25.60
8"	3202-0818-100000	18	11 1/8"	\$25.90
9"	3202-0918-100000	18	11 1/8"	\$27.40
10"	3202-1018-100000	18	11 1/8"	\$27.80
11"	3202-1118-100000	18	10 7/8"	\$31.90
12"	3202-1218-100000	18	10 7/8"	\$31.90
13"	3202-1318-100000	18	10 7/8"	\$43.20
14"	3202-1418-100000	18	10 7/8"	\$43.20
15"	3202-1518-100000	18	10 7/8"	\$49.50
16"	3202-1618-100000	18	10 7/8"	\$49.50
17"	3202-1718-100000	18	10 7/8"	\$57.80
18"	3202-1818-100000	18	10 7/8"	\$57.80
20"	3202-2018-100000	18	10 7/8"	\$70.80
22"	3202-2218-100000	18	10 7/8"	\$83.90
24"	3202-2418-100000	18	10 7/8"	\$96.40

Heavy Wall Ducting



PART NO. 3200-XXHG

Heavy Wall Coupling



PART NO. 3200-XXCN

HEAVY WALL

SS Not Available

Heavy Wall Ducting

Ø	PART NO.	GAUGE GAL	LENGTH	PRICE
8"	3200-08HG-100000	16	59.0625"	\$65.10
9"	3200-09HG-100000	16	59.0625"	\$70.40
10"	3200-10HG-100000	16	58.75"	\$75.70
12"	3200-12HG-100000	16	58.75"	\$90.80
14"	3200-14HG-100000	16	58.75"	\$117.00
16"	3200-16HG-100000	16	58.75"	\$151.70
18"	3200-18HG-100000	16	58.75"	\$167.30
20"	3200-20HG-100000	16	58.75"	\$200.60
22"	3200-22HG-100000	16	58.75"	\$222.20
24"	3200-24HG-100000	16	58.75"	\$255.50

Heavy Wall Coupling Assembly

Ø	PART NO.	GAUGE GAL	LENGTH	PRICE GALV
8"	3200-08CN-100000	16	56.5"	\$106.10
9"	3200-09CN-100000	16	56.5"	\$115.70
10"	3200-10CN-100000	16	56.25"	\$127.90
12"	3200-12CN-100000	16	56.25"	\$154.90
14"	3200-14CN-100000	16	56.25"	\$200.80
16"	3200-16CN-100000	16	56.25"	\$262.40
18"	3200-18CN-100000	16	56.25"	\$286.40
20"	3200-20CN-100000	16	56.25"	\$329.70
22"	3200-22CN-100000	16	56.25"	\$367.70
24"	3200-24CN-100000	16	56.25"	\$414.40

Products Not Available in Heavy Wall Include:

Adj. Nipple, Clamps, O-Ring, Silencer, Ball Joint, Hose, Butterfly Valve, Bleed in Valve, 24"+ No-loss Stackhead, Sliding Access Panel, Mist Recycler, and Fume Arms.

#-Denotes an item that is returnable. See page 59 for a full listing of returnable items.





CLAMP WITH PIN

Ø	PART NO.	GALV. PRICE	SS 304 PRICE ◊	WEIGHT (GALV)
3"	3260-0300-X00000	\$8.10 #	\$17.00 #	0.15
4"	3260-0400-X00000	\$8.70 #	\$17.00 #	0.20
5"	3260-0500-X00000	\$9.20 #	\$18.30 #	0.22
6"	3260-0600-X00000	\$9.60 #	\$19.40 #	0.25
7"	3260-0700-X00000	\$10.10 #	\$20.60 #	0.45
8"	3260-0800-X00000	\$10.40 #	\$21.80 #	0.50
9"	3260-0900-X00000	\$10.80 #	\$22.90 #	0.55
10"	3260-1000-X00000	\$11.70 #	\$24.00 #	0.55
11"	3260-1100-X00000	\$12.70 #	\$26.70 #	0.75
12"	3260-1200-X00000	\$12.70 #	\$26.70 #	1.10
13"	3260-1300-X00000	\$13.90 #	\$30.10 #	1.15
14"	3260-1400-X00000	\$13.90 #	\$30.10 #	1.20
15"	3260-1500-X00000	\$15.20 #	\$33.90 #	1.30
16"	3260-1600-X00000	\$15.20 #	\$33.90 #	1.35
17"	3260-1700-X00000	\$15.90 #	\$35.00 #	1.40
18"	3260-1800-X00000	\$15.90 #	\$35.00 #	1.55
20"	3260-2000-X00000	\$16.50 #	\$36.30 #	1.60
22"	3260-2200-X00000	\$17.40 #	\$37.40 #	1.80
24"	3260-2400-X00000	\$20.00 #	\$43.00 #	2.00
ADDITIONAL PINS				
LARGE BRIDGE PINS	3260-PINS-LARGE0	\$0.50	\$1.30	(10) .33
SMALL BRIDGE PINS	3260-PINS-SMALL0	\$0.20	\$0.50	(10) .11
ADDITIONAL NITRILE SEALS				
3" - 6"	3260-0375-SP3000	\$0.20	per foot	0.01
7" - 11"	3260-0500-SP4000	\$0.30	per foot	0.02
12" - 24"	3260-0650-SP5000	\$0.20	per foot	0.02

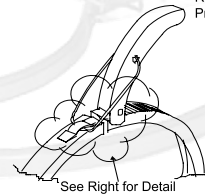
Clamp with Pin



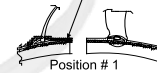
- Clamps come from factory with Nitrile seals. ePTFE seals are available for an additional charge.

- 3" to 6" Clamps: Small bridge pin with 3/8" wide Nitrile seal from factory.
- 7" to 11" Clamps: Large bridge pin with 1/2" wide Nitrile seal from factory.
- 12" to 24" Clamps: Large bridge pin with 5/8" wide Nitrile seal from factory.
- Supplied with galvanized cotter pin.
- ePTFE seals and SS construction available at additional charge.
- Seals stocked in rolls of 50'

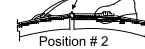
Danish Style



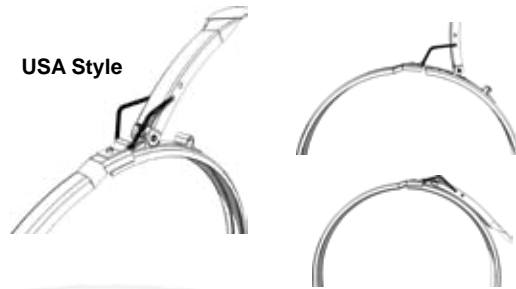
Seal Will Be Installed And Folded Over At the Factory. It Will Release Easily Due To The Pressure Sensitive Backing.



While Clamping Down, Slowly Tuck Extra Seal Underneath The Opposing Side Of Clamp.



USA Style



NOTE: We still have a supply of Danish clamps, once we exhaust our supply of those, only US style clamps will be sold.

Clamp with ePTFE Seal



- ePTFE seals are placed in clamps at factory.

- 3" to 6" Clamps : Small bridge pin with 3/8" wide ePTFE seal from factory.
- 7" to 11" Clamps: Large bridge pin with 1/2" wide ePTFE seal from factory.
- 12" to 24" Clamps: Large bridge pin with 5/8" wide ePTFE seal from factory.
- Specify ePTFE when ordering.
- Seals stocked in rolls of 100'

CLAMP WITH ePTFE SEAL

Ø	PART NO.	GALV. PRICE	SS 304 PRICE ◊	WEIGHT (GALV)
3"	3260-0300-X00005	\$16.90 #	\$25.10 #	0.15
4"	3260-0400-X00005	\$16.90 #	\$25.10 #	0.20
5"	3260-0500-X00005	\$18.10 #	\$28.00 #	0.22
6"	3260-0600-X00005	\$19.30 #	\$29.40 #	0.25
7"	3260-0700-X00005	\$23.10 #	\$31.90 #	0.45
8"	3260-0800-X00005	\$24.30 #	\$36.70 #	0.50
9"	3260-0900-X00005	\$25.60 #	\$37.40 #	0.55
10"	3260-1000-X00005	\$28.30 #	\$39.30 #	0.55
11"	3260-1100-X00005	\$32.60 #	\$55.20 #	0.75
12"	3260-1200-X00005	\$32.60 #	\$55.20 #	1.10
13"	3260-1300-X00005	\$35.00 #	\$56.80 #	1.15
14"	3260-1400-X00005	\$35.00 #	\$56.80 #	1.20
15"	3260-1500-X00005	\$37.50 #	\$58.50 #	1.27
16"	3260-1600-X00005	\$37.50 #	\$58.50 #	1.35
17"	3260-1700-X00005	\$39.60 #	\$60.10 #	1.45
18"	3260-1800-X00005	\$39.60 #	\$60.10 #	1.55
20"	3260-2000-X00005	\$42.40 #	\$61.90 #	1.60
22"	3260-2200-X00005	\$44.50 #	\$63.50 #	1.80
24"	3260-2400-X00005	\$51.20 #	\$73.00 #	2.27
ADDITIONAL PINS				
LARGE BRIDGE PINS	3260-PINS-LARGE0	\$0.50	\$1.30	(10) .33
SMALL BRIDGE PINS	3260-PINS-SMALL0	\$0.20	\$0.50	(10) .11
ADDITIONAL EPTFE SEALS				
3" - 6"	3260-0000-SG3000	\$1.40	per foot	0.01
7" - 11"	3260-0000-SG4000	\$1.90	per foot	0.02
12" - 24"	3260-0000-SG.650	\$2.30	per foot	0.02

◊ Items may take longer than standard lead times.

#-Denotes an item that is returnable. See page 59 for a full listing of returnable items.



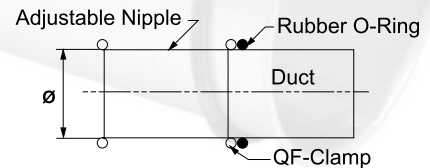
ADJUSTABLE NIPPLE WITH O-RING

Ø	PART NO.	ENDS	ID (IN)	OD (IN)	LENGTH (L)	GAUGE GAL	GAUGE SS	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3202-0300	QF	3.07	3.15	11 1/4"	22	22	\$15.50 #	\$34.60 #	0.80
4"	3202-0400	QF	3.96	4.03	11 1/4"	22	22	\$15.50 #	\$34.60 #	1.05
5"	3202-0500	QF	4.96	5.03	11 1/4"	22	22	\$15.90 #	\$35.60 #	1.30
6"	3202-0600	QF	5.99	6.06	11 1/4"	22	22	\$16.30 #	\$37.50 #	1.60
7"	3202-0700	QF	7.00	7.07	11 1/8"	22	22	\$19.60 #	\$44.10 #	2.40
8"	3202-0800	QF	8.00	8.06	11"	22	22	\$20.00 #	\$45.00 #	2.70
9"	3202-0900	QF	9.00	9.06	11"	22	22	\$21.10 #	\$46.80 #	3.05
10"	3202-1000	QF	10.00	10.07	10 7/8"	22	22	\$21.40 #	\$48.70 #	3.40
11"	3202-1100	QF	11.12	11.19	10 5/8"	22	22	\$24.50 #	\$56.00 #	3.80
12"	3202-1200	QF	12.11	12.17	10 5/8"	22	22	\$24.50 #	\$56.00 #	4.20
13"	3202-1300	QF	13.12	13.20	10 5/8"	20	20	\$33.20 #	\$76.20 #	4.70
14"	3202-1400	QF	14.10	14.18	10 5/8"	20	20	\$33.20 #	\$76.20 #	5.85
15"	3202-1500	QF	15.12	15.20	10 5/8"	20	20	\$38.10 #	\$87.90 #	6.25
16"	3202-1600	QF	16.10	16.18	10 5/8"	20	20	\$38.10 #	\$87.90 #	6.65
17"	3202-1700	QF	17.07	17.15	10 5/8"	20	20	\$44.50 #	\$100.70 #	7.05
18"	3202-1800	QF	18.10	18.18	10 5/8"	20	20	\$44.50 #	\$100.70 #	7.45
20"	3202-2000	QF	20.10	20.18	10 5/8"	20	20	\$54.50 #	\$122.90 #	8.10
22"	3202-2200	QF	22.11	22.19	10 5/8"	20	20	\$64.50 #	\$144.90 #	8.80
24"	3202-2400	QF	24.06	24.14	10 5/8"	20	20	\$74.10 #	\$166.70 #	9.70

Adjustable Nipple with O-Ring



- Used to provide variable length adjustment of QF System. Black O-ring included.
- Specify Red O-ring if needed.



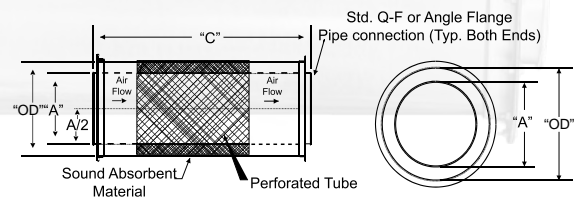
SILENCER

"A"	"OD"	PART NO.	ENDS	LENGTH (C)	GAUGE HOUSING	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	12"	3106-0300	QF	28"	20	\$455.50	\$842.30	10.00
4"	12"	3106-0400	QF	28"	20	\$475.10	\$878.30	21.00
5"	13"	3106-0500	QF	28"	20	\$490.20	\$906.10	35.00
6"	14"	3106-0600	QF	30"	20	\$509.10	\$941.30	43.00
7"	15"	3106-0700	QF	30"	20	\$595.50	\$1,101.00	54.00
8"	16"	3106-0800	QF	35"	20	\$704.60	\$1,302.70	65.00
9"	17"	3106-0900	QF	40"	20	\$759.20	\$1,403.50	76.00
10"	18"	3106-1000	QF	48"	20	\$831.90	\$1,538.00	89.00
12"	20"	3106-1200	QF	54"	20	\$863.70	\$1,596.80	104.00
14"	22"	3106-1400	QF	60"	20	\$918.20	\$1,697.60	122.00
16"	24"	3106-1600	QF	64"	20	\$1,041.00	\$1,924.50	176.00
18"	26"	3106-1800	QF	68"	20	\$1,128.20	\$2,295.70	225.00
20"	28"	3106-2000	QF	72"	20	\$1,322.80	\$2,445.60	265.00
22"	30"	3106-2200	QF	76"	20	\$1,431.90	\$2,647.30	310.00
24"	32"	3106-2400	QF	80"	20	\$1,556.40	\$2,877.30	406.00
26"	34"	3106-2600	FLANGE	80"	20	\$2,335.30	\$4,317.20	546.00
28"	36"	3106-2800	FLANGE	80"	20	\$2,353.20	\$4,350.50	600.00
30"	38"	3106-3000	FLANGE	80"	18	\$2,401.10	\$4,438.90	678.00
32"	40"	3106-3200	FLANGE	80"	18	\$2,472.20	\$4,570.40	700.00
34"	42"	3106-3400	FLANGE	80"	18	\$2,497.10	\$4,616.50	770.00
36"	44"	3106-3600	FLANGE	80"	18	\$2,975.60	\$5,501.00	897.00
38"	46"	3106-3800	FLANGE	80"	18	\$3,041.00	\$5,622.20	974.00
40"	48"	3106-4000	FLANGE	80"	18	\$3,062.70	\$5,662.10	1118.00

Silencer



- Reduces sound levels from fans and equipment.





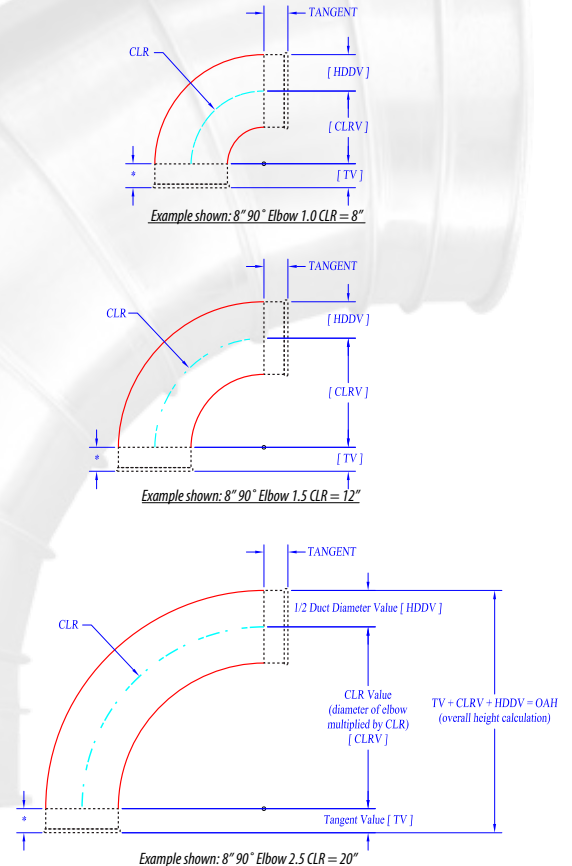
ELBOWS

Ø	PART NO.	ENDS	CLR	STYLE		GAUGE		TANGENTS		GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
				GALV	SS	GALV	SS	GALV	SS			
90 DEGREE												
3"	3210-0390	QF	1.0*	P	T	24	14	2.25"	2.00"	\$37.60	TUBED	0.90
4"	3210-0490	QF	1.0*	P	T	24	14	1.32"	2.00"	\$46.30 #	TUBED	1.00
5"	3210-0590	QF	1.0*	P	T	24	14	1.32"	2.00"	\$51.40 #	TUBED	1.20
6"	3210-0690	QF	1.0*	P	T	24	14	1.32"	2.00"	\$57.80 #	TUBED	1.50
7"	3210-0790	QF	1.0*	P	S	24	22	1.32"	2.25"	\$77.10 #	\$235.80	2.20
8"	3210-0890	QF	1.5	S	S	22	22	2.25"	2.25"	\$112.30 #	\$255.70	6.10
9"	3210-0990	QF	1.5	S	S	22	22	2.25"	2.25"	\$116.70	\$266.50	7.60
10"	3210-1090	QF	1.5	S	S	22	22	2.25"	2.25"	\$121.40 #	\$268.60	9.00
11"	3210-1190	QF	1.5	S	S	22	22	2.25"	2.25"	\$154.20	\$338.60	10.50
12"	3210-1290	QF	1.5	S	S	22	22	2.25"	2.25"	\$154.20 #	\$338.60	12.40
13"	3210-1390	QF	1.5	S	S	20	20	2.25"	2.25"	\$163.70	\$359.70	14.26
14"	3210-1490	QF	1.5	S	S	20	20	2.25"	2.25"	\$163.70	\$359.70	19.00
15"	3210-1590	QF	1.5	S	S	20	20	2.25"	2.25"	\$168.10	\$378.70	21.25
16"	3210-1690	QF	1.5	S	S	20	20	2.25"	2.25"	\$168.10	\$378.70	24.00
17"	3210-1790	QF	1.5	S	S	20	20	2.25"	2.25"	\$236.20	\$519.10	27.50
18"	3210-1890	QF	1.5	S	S	20	20	2.25"	2.25"	\$236.20	\$519.10	30.90
20"	3210-2090	QF	1.5	S	S	20	20	2.25"	2.25"	\$275.60	\$605.80	35.97
22"	3210-2290	QF	1.5	S	S	20	20	2.25"	2.25"	\$354.60	\$781.40	43.06
24"	3210-2490	QF	1.5	S	S	20	20	2.25"	2.25"	\$407.80	\$898.60	55.50
60 DEGREE												
3"	3210-0360	QF	1.0*	P	T	24	14	2.25"	2.00"	\$37.60	TUBED	0.65
4"	3210-0460	QF	1.0*	P	T	24	14	1.32"	2.00"	\$46.30 #	TUBED	0.80
5"	3210-0560	QF	1.0*	P	T	24	14	1.32"	2.00"	\$48.10 #	TUBED	1.15
6"	3210-0660	QF	1.0*	P	T	24	14	1.32"	2.00"	\$61.80 #	TUBED	1.35
7"	3210-0760	QF	1.0*	P	S	24	22	1.32"	2.25"	\$77.10 #	\$175.60	1.65
8"	3210-0860	QF	1.5	S	S	22	22	2.25"	2.25"	\$95.60	\$206.90	4.40
9"	3210-0960	QF	1.5	S	S	22	22	2.25"	2.25"	\$98.30	\$215.60	5.50
10"	3210-1060	QF	1.5	S	S	22	22	2.25"	2.25"	\$109.80	\$230.70	6.70
11"	3210-1160	QF	1.5	S	S	22	22	2.25"	2.25"	\$119.60	\$252.10	7.50
12"	3210-1260	QF	1.5	S	S	22	22	2.25"	2.25"	\$119.60	\$252.10	8.96
13"	3210-1360	QF	1.5	S	S	20	20	2.25"	2.25"	\$136.90	\$292.30	12.25
14"	3210-1460	QF	1.5	S	S	20	20	2.25"	2.25"	\$136.90	\$292.30	13.70
15"	3210-1560	QF	1.5	S	S	20	20	2.25"	2.25"	\$159.90	\$338.60	16.00
16"	3210-1660	QF	1.5	S	S	20	20	2.25"	2.25"	\$159.90	\$338.60	18.83
17"	3210-1760	QF	1.5	S	S	20	20	2.25"	2.25"	\$181.20	\$388.70	19.20
18"	3210-1860	QF	1.5	S	S	20	20	2.25"	2.25"	\$181.20	\$388.70	20.81
20"	3210-2060	QF	1.5	S	S	20	20	2.25"	2.25"	\$233.20	\$489.10	25.35
22"	3210-2260	QF	1.5	S	S	20	20	2.25"	2.25"	\$275.60	\$581.70	30.28
24"	3210-2460	QF	1.5	S	S	20	20	2.25"	2.25"	\$317.00	\$668.90	42.50



Elbow

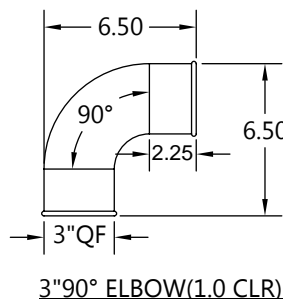
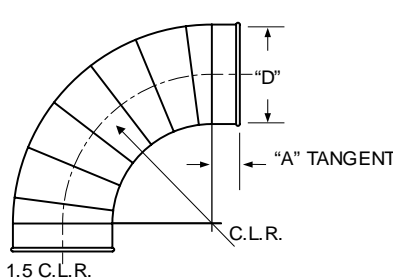
- Galvanized or stainless steel (Specify if Stainless Steel.)
- Elbows in heavier gauges can be supplied in solid welded construction at an additional cost.
- Tubed elbows are air flow directional (collar on outside of tube for outlet and collar on inside of tube for inlet).



3" Stainless steel elbows – constructed of 18ga walled tubing with collars spot welded and raised lap seamed on each end. This tube is airflow directional (collar on outside of tube for outlet and collar on inside of tube for inlet).

T= Tubed style. CLR= Center Line radius. P= Press formed halves stitch welded together. S= Segmented elbows.
Notes: * 1.0 Galv and 1.5 SS

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



#-Denotes an item that is returnable. See page 59 for a full listing of returnable items.





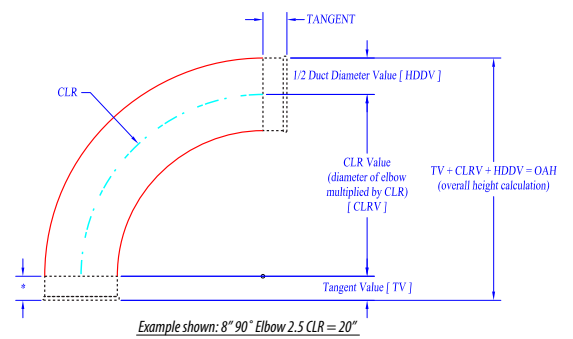
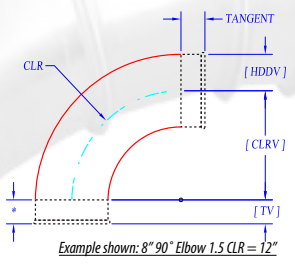
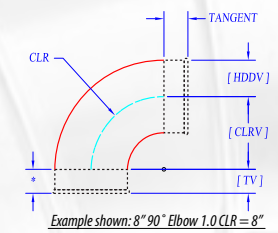
ELBOWS

Ø	PART NO.	ENDS	CLR	STYLE		GAUGE		TANGENTS		GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
				GALV	SS	GALV	SS	GALV	SS			
45 DEGREE												
3"	3210-0345	QF	1.0"	P	T	24	14	2.25"	2.00"	\$33.90	TUBED	0.90
4"	3210-0445	QF	1.0"	P	T	24	14	1.32"	2.00"	\$39.50 #	TUBED	1.00
5"	3210-0545	QF	1.0"	P	T	24	14	1.32"	2.00"	\$43.80 #	TUBED	0.70
6"	3210-0645	QF	1.0"	P	T	24	14	1.32"	2.00"	\$52.00 #	TUBED	1.05
7"	3210-0745	QF	1.0"	P	S	24	22	1.32"	2.25"	\$73.30 #	\$152.90	1.30
8"	3210-0845	QF	1.5	S	S	22	22	2.25"	2.25"	\$79.10	\$156.70	3.70
9"	3210-0945	QF	1.5	S	S	22	22	2.25"	2.25"	\$80.70	\$163.00	4.80
10"	3210-1045	QF	1.5	S	S	22	22	2.25"	2.25"	\$84.10	\$172.90	5.31
11"	3210-1145	QF	1.5	S	S	22	22	2.25"	2.25"	\$88.70	\$188.00	6.05
12"	3210-1245	QF	1.5	S	S	22	22	2.25"	2.25"	\$88.70	\$188.00	7.30
13"	3210-1345	QF	1.5	S	S	20	20	2.25"	2.25"	\$95.60	\$201.30	9.25
14"	3210-1445	QF	1.5	S	S	20	20	2.25"	2.25"	\$95.60	\$201.30	11.48
15"	3210-1545	QF	1.5	S	S	20	20	2.25"	2.25"	\$128.30	\$271.50	12.06
16"	3210-1645	QF	1.5	S	S	20	20	2.25"	2.25"	\$128.30	\$271.50	13.80
17"	3210-1745	QF	1.5	S	S	20	20	2.25"	2.25"	\$147.60	\$314.80	15.25
18"	3210-1845	QF	1.5	S	S	20	20	2.25"	2.25"	\$147.60	\$314.80	17.80
20"	3210-2045	QF	1.5	S	S	20	20	2.25"	2.25"	\$176.40	\$372.40	20.04
22"	3210-2245	QF	1.5	S	S	20	20	2.25"	2.25"	\$202.40	\$426.40	23.90
24"	3210-2445	QF	1.5	S	S	20	20	2.25"	2.25"	\$232.80	\$490.30	28.00
30 DEGREE												
3"	3210-0330	QF	1.0"	P	T	24	14	2.25"	2.00"	\$33.90	TUBED	0.38
4"	3210-0430	QF	1.0"	P	T	24	14	1.32"	2.00"	\$39.50 #	TUBED	0.45
5"	3210-0530	QF	1.0"	P	T	24	14	1.32"	2.00"	\$43.80 #	TUBED	0.65
6"	3210-0630	QF	1.0"	P	T	24	14	1.32"	2.00"	\$54.00 #	TUBED	0.85
7"	3210-0730	QF	1.0"	P	S	24	22	1.32"	2.25"	\$73.30 #	\$130.30	1.20
8"	3210-0830	QF	1.5	S	S	22	22	2.25"	2.25"	\$74.50	\$138.00	2.80
9"	3210-0930	QF	1.5	S	S	22	22	2.25"	2.25"	\$77.10	\$141.70	3.60
10"	3210-1030	QF	1.5	S	S	22	22	2.25"	2.25"	\$80.70	\$144.80	4.30
11"	3210-1130	QF	1.5	S	S	22	22	2.25"	2.25"	\$82.30	\$152.10	4.75
12"	3210-1230	QF	1.5	S	S	22	22	2.25"	2.25"	\$82.30	\$152.10	5.55
13"	3210-1330	QF	1.5	S	S	20	20	2.25"	2.25"	\$91.00	\$154.40	7.10
14"	3210-1430	QF	1.5	S	S	20	20	2.25"	2.25"	\$91.00	\$154.40	8.53
15"	3210-1530	QF	1.5	S	S	20	20	2.25"	2.25"	\$101.60	\$206.40	9.00
16"	3210-1630	QF	1.5	S	S	20	20	2.25"	2.25"	\$101.60	\$206.40	10.30
17"	3210-1730	QF	1.5	S	S	20	20	2.25"	2.25"	\$110.30	\$235.50	11.07
18"	3210-1830	QF	1.5	S	S	20	20	2.25"	2.25"	\$110.30	\$235.50	12.14
20"	3210-2030	QF	1.5	S	S	20	20	2.25"	2.25"	\$129.10	\$273.90	14.73
22"	3210-2230	QF	1.5	S	S	20	20	2.25"	2.25"	\$147.60	\$312.20	17.90
24"	3210-2430	QF	1.5	S	S	20	20	2.25"	2.25"	\$169.70	\$359.00	22.70



Elbow

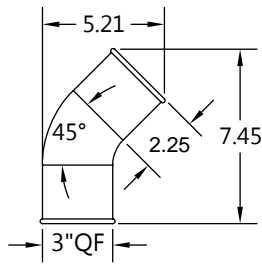
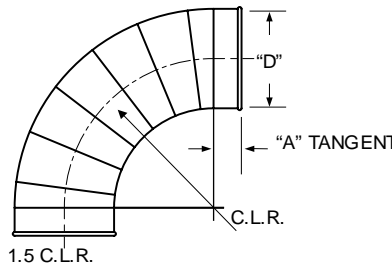
- Galvanized or stainless steel (Specify if Stainless Steel.)
- Elbows in heavier gauges can be supplied in solid welded construction at an additional cost.
- Tubed elbows are air flow directional (collar on outside of tube for outlet and collar on inside of tube for inlet).



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

3" Stainless steel elbows – constructed of 18ga walled tubing with collars spot welded and raised lap seamed on each end. This tube is airflow directional (collar on outside of tube for outlet and collar on inside of tube for inlet).

T= Tubed style. CLR= Center Line radius. P= Press formed halves stitch welded together. S= Segmented elbows.
Notes: * 1.0 Galv and 1.5 SS



3"45° ELBOW(1.0 CLR)

#-Denotes an item that is returnable. See page 59 for a full listing of returnable items.



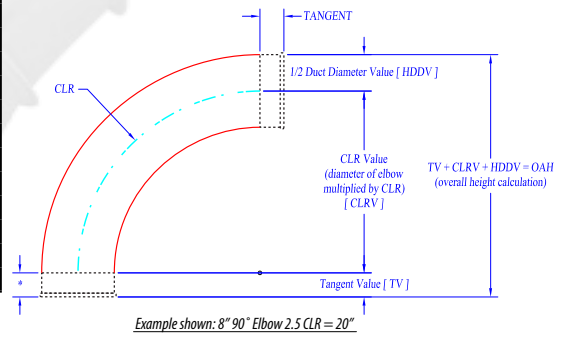
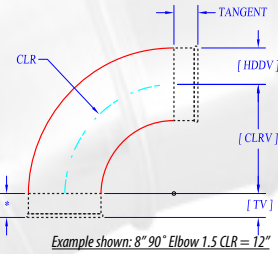
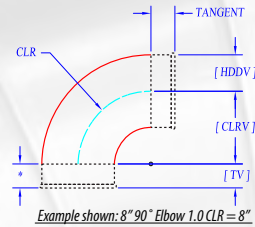
ELBOW LONG RADIUS

Ø	PART NO.	ENDS	CLR	STYLE		GAUGE		TANGENTS		GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
				GALV	SS	GALV	SS	GALV	SS			
90 DEGREE												
3"	3210-0390	QF	1.5*	P	T	24	14	2.00"	2.00"	\$37.60	TUBED	0.90
4"	3210-0490	QF	1.5*	P	T	24	14	2.00"	2.00"	\$50.00 #	TUBED	1.00
5"	3210-0590	QF	1.5*	P	T	24	14	2.00"	2.00"	\$56.00 #	TUBED	1.20
6"	3210-0690	QF	1.5*	P	T	24	14	2.00"	2.00"	\$61.40 #	TUBED	1.50
7"	3210-0790	QF	1.5*	P	S	24	22	2.00"	2.25"	\$82.30 #	\$275.80	2.20
8"	3210-0890	QF	2.5	S	S	22	22	2.25"	2.25"	\$145.50	\$307.10	6.10
9"	3210-0990	QF	2.5	S	S	22	22	2.25"	2.25"	\$151.40	\$319.80	7.60
10"	3210-1090	QF	2.5	S	S	22	22	2.25"	2.25"	\$154.20	\$324.60	9.00
11"	3210-1190	QF	2.5	S	S	22	22	2.25"	2.25"	\$182.20	\$381.10	10.50
12"	3210-1290	QF	2.5	S	S	22	22	2.25"	2.25"	\$182.20	\$381.10	12.40
13"	3210-1390	QF	2.5	S	S	20	20	2.25"	2.25"	\$202.40	\$424.90	14.26
14"	3210-1490	QF	2.5	S	S	20	20	2.25"	2.25"	\$202.40	\$424.90	19.00
15"	3210-1590	QF	2.5	S	S	20	20	2.25"	2.25"	\$316.10	\$667.10	21.25
16"	3210-1690	QF	2.5	S	S	20	20	2.25"	2.25"	\$316.10	\$667.10	24.00
17"	3210-1790	QF	2.5	S	S	20	20	2.25"	2.25"	\$345.10	\$728.70	27.50
18"	3210-1890	QF	2.5	S	S	20	20	2.25"	2.25"	\$345.10	\$728.70	30.90
20"	3210-2090	QF	2.5	S	S	20	20	2.25"	2.25"	\$572.40	\$783.70	35.97
22"	3210-2290	QF	2.5	S	S	20	20	2.25"	2.25"	\$583.10	\$990.60	43.06
24"	3210-2490	QF	2.5	S	S	20	20	2.25"	2.25"	\$670.70	\$1,139.20	55.50
60 DEGREE												
3"	3210-0360	QF	1.5*	P	T	24	14	2.00"	2.00"	\$37.60	TUBED	0.65
4"	3210-0460	QF	1.5*	P	T	24	14	2.00"	2.00"	\$50.00	TUBED	0.80
5"	3210-0560	QF	1.5*	P	T	24	14	2.00"	2.00"	\$56.10	TUBED	1.15
6"	3210-0660	QF	1.5*	P	T	24	14	2.00"	2.00"	\$61.40	TUBED	1.35
7"	3210-0760	QF	1.5*	P	S	24	22	2.00"	2.25"	\$80.90	\$245.70	1.65
8"	3210-0860	QF	2.5	S	S	22	22	2.25"	2.25"	\$113.50	\$255.20	4.40
9"	3210-0960	QF	2.5	S	S	22	22	2.25"	2.25"	\$120.70	\$264.60	5.50
10"	3210-1060	QF	2.5	S	S	22	22	2.25"	2.25"	\$134.90	\$282.90	6.70
11"	3210-1160	QF	2.5	S	S	22	22	2.25"	2.25"	\$146.70	\$309.50	7.50
12"	3210-1260	QF	2.5	S	S	22	22	2.25"	2.25"	\$146.70	\$309.50	8.96
13"	3210-1360	QF	2.5	S	S	20	20	2.25"	2.25"	\$168.00	\$358.70	12.25
14"	3210-1460	QF	2.5	S	S	20	20	2.25"	2.25"	\$168.00	\$358.70	13.70
15"	3210-1560	QF	2.5	S	S	20	20	2.25"	2.25"	\$196.40	\$415.60	16.00
16"	3210-1660	QF	2.5	S	S	20	20	2.25"	2.25"	\$196.40	\$415.60	18.83
17"	3210-1760	QF	2.5	S	S	20	20	2.25"	2.25"	\$222.30	\$477.10	19.20
18"	3210-1860	QF	2.5	S	S	20	20	2.25"	2.25"	\$222.30	\$477.10	20.81
20"	3210-2060	QF	2.5	S	S	20	20	2.25"	2.25"	\$286.40	\$600.20	25.35
22"	3210-2260	QF	2.5	S	S	20	20	2.25"	2.25"	\$338.30	\$713.90	30.28
24"	3210-2460	QF	2.5	S	S	20	20	2.25"	2.25"	\$389.10	\$820.90	42.50

Elbow Long Radius

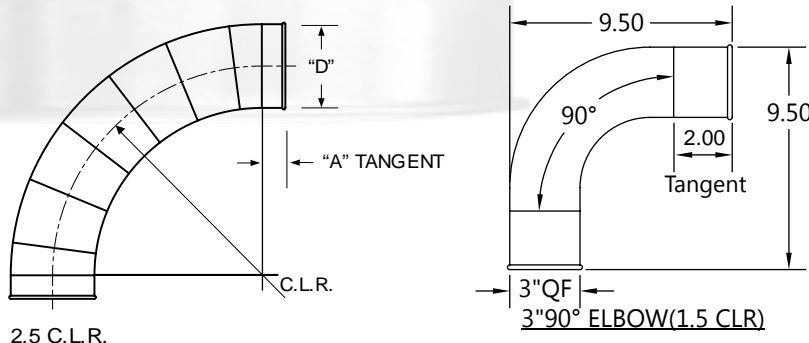


- Galvanized or stainless steel. (Specify if Stainless Steel.)
- Elbows in heavier gauges can be supplied in solid welded construction at an additional cost.
- Specify LR when Ordering



T= Tubed style. CLR= Center Line radius. P= Press formed halves stitch welded together. S= Segmented elbows.
Notes: * 1.5 Galv and 2.5 SS

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



#-Denotes an item that is returnable. See page 59 for a full listing of returnable items.



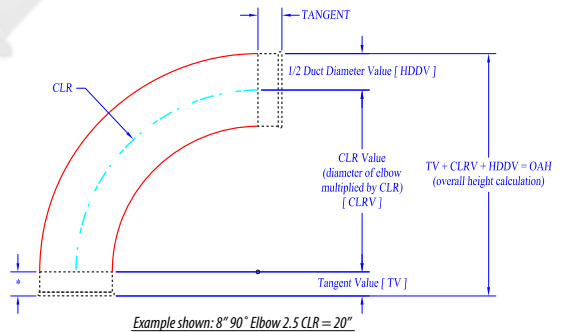
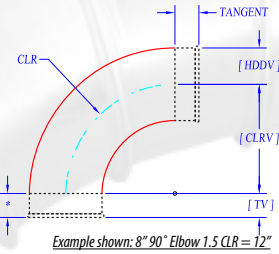
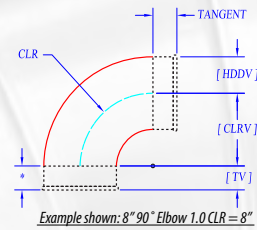
ELBOW LONG RADIUS

Ø	PART NO.	ENDS	CLR	STYLE		GAUGE		TANGENTS		GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
				GALV	SS	GALV	SS	GALV	SS			
45 DEGREE												
3"	3210-0345	QF	1.5*	P	T	24	14	2.00"	2.00"	\$33.90	TUBED	0.90
4"	3210-0445	QF	1.5*	P	T	24	14	2.00"	2.00"	\$50.00	TUBED	1.05
5"	3210-0545	QF	1.5*	P	T	24	14	2.00"	2.00"	\$56.00	TUBED	1.60
6"	3210-0645	QF	1.5*	P	T	24	14	2.00"	2.00"	\$61.40	TUBED	2.20
7"	3210-0745	QF	1.5*	P	S	24	22	2.00"	2.25"	\$101.70	\$215.60	2.90
8"	3210-0845	QF	2.5	S	S	22	22	2.25"	2.25"	\$113.50	\$240.10	7.65
9"	3210-0945	QF	2.5	S	S	22	22	2.25"	2.25"	\$120.70	\$264.60	10.87
10"	3210-1045	QF	2.5	S	S	22	22	2.25"	2.25"	\$134.90	\$282.90	13.38
11"	3210-1145	QF	2.5	S	S	22	22	2.25"	2.25"	\$146.70	\$309.50	16.25
12"	3210-1245	QF	2.5	S	S	22	22	2.25"	2.25"	\$146.70	\$309.50	22.00
13"	3210-1345	QF	2.5	S	S	20	20	2.25"	2.25"	\$168.00	\$358.70	25.00
14"	3210-1445	QF	2.5	S	S	20	20	2.25"	2.25"	\$168.00	\$358.70	29.04
15"	3210-1545	QF	2.5	S	S	20	20	2.25"	2.25"	\$196.40	\$415.60	32.10
16"	3210-1645	QF	2.5	S	S	20	20	2.25"	2.25"	\$196.40	\$415.60	36.80
17"	3210-1745	QF	2.5	S	S	20	20	2.25"	2.25"	\$222.30	\$477.10	41.00
18"	3210-1845	QF	2.5	S	S	20	20	2.25"	2.25"	\$222.30	\$477.10	45.93
20"	3210-2045	QF	2.5	S	S	20	20	2.25"	2.25"	\$286.40	\$600.20	58.00
22"	3210-2245	QF	2.5	S	S	20	20	2.25"	2.25"	\$338.30	\$713.90	67.52
24"	3210-2445	QF	2.5	S	S	20	20	2.25"	2.25"	\$389.10	\$820.90	75.74
30 DEGREE												
3"	3210-0330	QF	1.5*	P	T	24	14	2.00"	2.00"	\$36.70	TUBED	0.80
4"	3210-0430	QF	1.5*	P	T	24	14	2.00"	2.00"	\$50.00	TUBED	0.96
5"	3210-0530	QF	1.5*	P	T	24	14	2.00"	2.00"	\$56.00	TUBED	1.40
6"	3210-0630	QF	1.5*	P	T	24	14	2.00"	2.00"	\$61.40	TUBED	1.80
7"	3210-0730	QF	1.5*	P	S	24	22	2.00"	2.25"	\$76.30	\$160.00	2.60
8"	3210-0830	QF	2.5	S	S	22	22	2.25"	2.25"	\$88.20	\$166.90	5.56
9"	3210-0930	QF	2.5	S	S	22	22	2.25"	2.25"	\$92.90	\$173.90	7.79
10"	3210-1030	QF	2.5	S	S	22	22	2.25"	2.25"	\$96.40	\$177.60	9.45
11"	3210-1130	QF	2.5	S	S	22	22	2.25"	2.25"	\$103.40	\$186.60	11.40
12"	3210-1230	QF	2.5	S	S	22	22	2.25"	2.25"	\$103.40	\$186.60	13.08
13"	3210-1330	QF	2.5	S	S	20	20	2.25"	2.25"	\$110.30	\$189.30	16.30
14"	3210-1430	QF	2.5	S	S	20	20	2.25"	2.25"	\$110.30	\$189.30	20.92
15"	3210-1530	QF	2.5	S	S	20	20	2.25"	2.25"	\$120.90	\$253.30	23.10
16"	3210-1630	QF	2.5	S	S	20	20	2.25"	2.25"	\$120.90	\$253.30	25.58
17"	3210-1730	QF	2.5	S	S	20	20	2.25"	2.25"	\$135.40	\$289.10	28.10
18"	3210-1830	QF	2.5	S	S	20	20	2.25"	2.25"	\$135.40	\$289.10	31.86
20"	3210-2030	QF	2.5	S	S	20	20	2.25"	2.25"	\$158.60	\$336.30	38.94
22"	3210-2230	QF	2.5	S	S	20	20	2.25"	2.25"	\$180.90	\$383.00	46.68
24"	3210-2430	QF	2.5	S	S	20	20	2.25"	2.25"	\$208.00	\$440.50	60.43

Elbow Long Radius

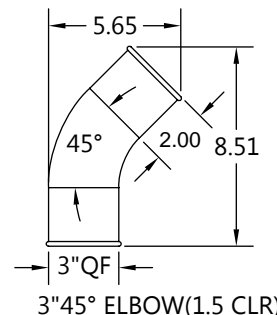
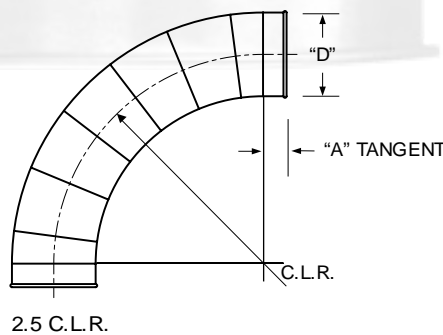


- Galvanized or stainless steel. (Specify if Stainless Steel.)
- Elbows in heavier gauges can be supplied in solid welded construction at an additional cost.
- Specify LR when Ordering



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

T= Tubed style. CLR= Center Line radius. P= Press formed halves stitch welded together. S= Segmented elbows.
Notes: * 1.5 Galv and 2.5 SS



#-Denotes an item that is returnable. See page 59 for a full listing of returnable items.

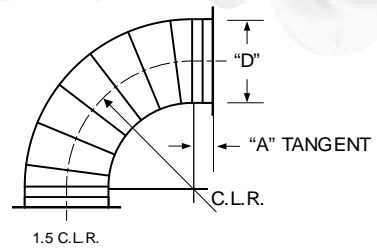


ELBOW FLANGED

Ø	PART NO.	CLR		STYLE		GAUGE		TANGENTS	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
		GALV	SS	GALV	SS	GALV	SS				
90 DEGREE											
3"	3211-0390	1.0	1.5	P	T	24	14	2"	\$56.00	TUBED	1.75
4"	3211-0490	1.0	1.5	P	T	24	14	2"	\$66.50	TUBED	2.25
5"	3211-0590	1.0	1.5	P	T	24	14	2"	\$73.80	TUBED	2.80
6"	3211-0690	1.0	1.5	P	T	24	14	2"	\$88.90	TUBED	3.85
7"	3211-0790	1.0	1.5	P	S	24	22	2"	\$107.10	\$347.00	4.90
8"	3211-0890	1.5	1.5	S	S	22	22	2"	\$150.10	\$370.90	7.66
9"	3211-0990	1.5	1.5	S	S	22	22	2"	\$158.40	\$382.60	8.45
10"	3211-1090	1.5	1.5	S	S	22	22	2"	\$170.50	\$387.40	15.47
11"	3211-1190	1.5	1.5	S	S	22	22	2"	\$218.40	\$465.70	17.60
12"	3211-1290	1.5	1.5	S	S	22	22	2"	\$218.40	\$465.70	19.33
13"	3211-1390	1.5	1.5	S	S	20	20	2"	\$241.90	\$494.00	22.40
14"	3211-1490	1.5	1.5	S	S	20	20	2"	\$241.90	\$494.00	25.39
15"	3211-1590	1.5	1.5	S	S	20	20	2"	\$272.40	\$537.80	27.90
16"	3211-1690	1.5	1.5	S	S	20	20	4"	\$272.40	\$537.80	30.51
17"	3211-1790	1.5	1.5	S	S	20	20	4"	\$348.90	\$729.30	32.30
18"	3211-1890	1.5	1.5	S	S	20	20	4"	\$348.90	\$729.30	34.67
20"	3211-2090	1.5	1.5	S	S	20	20	4"	\$395.40	\$835.90	41.99
22"	3211-2290	1.5	1.5	S	S	20	20	4"	\$490.00	\$1,039.60	46.90
24"	3211-2490	1.5	1.5	S	S	20	20	4"	\$563.50	\$1,195.50	70.96
26"	3211-2690	1.5	1.5	S	S	18	18	4"	\$652.70	\$1,277.50	89.12
28"	3211-2890	1.5	1.5	S	S	18	18	4"	\$801.80	\$1,538.30	99.19
30"	3211-3090	1.5	1.5	S	S	18	18	4"	\$822.30	\$1,591.80	110.26
32"	3211-3290	1.5	1.5	S	S	18	18	4"	\$1,035.10	\$1,644.70	121.38
34"	3211-3490	1.5	1.5	S	S	16	16	4"	\$1,180.60	\$1,958.50	133.52
36"	3211-3690	1.5	1.5	S	S	16	16	4"	\$1,344.60	\$2,400.10	149.04
38"	3211-3890	1.5	1.5	S	S	16	16	4"	\$1,534.00	\$2,893.50	162.31
40"	3211-4090	1.5	1.5	S	S	16	16	4"	\$1,853.70	\$3,598.40	176.20
60 DEGREE											
3"	3211-0360	1.0	1.5	P	T	24	14	2"	\$56.00	TUBED	1.60
4"	3211-0460	1.0	1.5	P	T	24	14	2"	\$66.50	TUBED	2.00
5"	3211-0560	1.0	1.5	P	T	24	14	2"	\$70.30	TUBED	2.75
6"	3211-0660	1.0	1.5	P	T	24	14	2"	\$88.90	TUBED	3.65
7"	3211-0760	1.0	1.5	P	S	24	22	2"	\$107.10	\$284.20	4.80
8"	3211-0860	1.5	1.5	S	S	22	22	2"	\$132.60	\$319.90	6.87
9"	3211-0960	1.5	1.5	S	S	22	22	2"	\$139.10	\$329.30	9.48
10"	3211-1060	1.5	1.5	S	S	22	22	2"	\$158.50	\$347.80	12.98
11"	3211-1160	1.5	1.5	S	S	22	22	2"	\$182.20	\$375.40	15.49
12"	3211-1260	1.5	1.5	S	S	22	22	2"	\$182.20	\$375.40	18.67
13"	3211-1360	1.5	1.5	S	S	20	20	2"	\$213.80	\$423.40	21.44
14"	3211-1460	1.5	1.5	S	S	20	20	2"	\$213.80	\$423.40	24.92
15"	3211-1560	1.5	1.5	S	S	20	20	2"	\$263.80	\$469.10	27.80
16"	3211-1660	1.5	1.5	S	S	20	20	4"	\$263.80	\$496.10	30.25
17"	3211-1760	1.5	1.5	S	S	20	20	4"	\$291.40	\$593.50	33.69
18"	3211-1860	1.5	1.5	S	S	20	20	4"	\$291.40	\$593.50	36.86
20"	3211-2060	1.5	1.5	S	S	20	20	4"	\$351.20	\$714.10	40.52
22"	3211-2260	1.5	1.5	S	S	20	20	4"	\$407.50	\$831.50	45.95
24"	3211-2460	1.5	1.5	S	S	20	20	4"	\$468.50	\$956.20	58.95
26"	3211-2660	1.5	1.5	S	S	18	18	4"	\$501.60	\$973.80	75.08
28"	3211-2860	1.5	1.5	S	S	18	18	4"	\$568.80	\$1,104.10	82.97
30"	3211-3060	1.5	1.5	S	S	18	18	4"	\$662.00	\$1,285.10	91.71
32"	3211-3260	1.5	1.5	S	S	18	18	4"	\$811.20	\$1,574.70	100.23
34"	3211-3460	1.5	1.5	S	S	16	16	4"	\$1,009.80	\$1,683.10	132.18
36"	3211-3660	1.5	1.5	S	S	16	16	4"	\$1,236.40	\$1,748.50	122.29
38"	3211-3860	1.5	1.5	S	S	16	16	4"	\$1,512.30	\$2,465.30	132.58
40"	3211-4060	1.5	1.5	S	S	16	16	4"	\$1,748.30	\$3,393.50	142.99



- Elbows of dia. 4" - 7" are supplied press formed.
- Elbows of dia. 3" & 8" - 40" are only supplied segmented.
- Elbows are supplied with Van Stone Angle Flanges on both ends.
- Also available in Long Radius.



T= Tubed style. CLR= Center Line radius. P= Press formed halves stitch welded together. S= Segmented elbows.
Notes: * 1.0 Galv and 1.5 SS

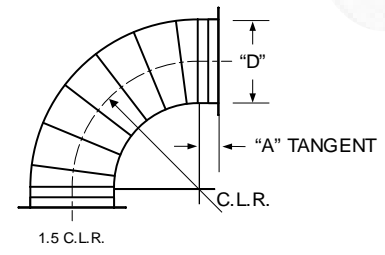


ELBOW FLANGED

Ø	PART NO.	CLR		STYLE		GAUGE		TANGENTS	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
		GALV	SS	GALV	SS	GALV	SS				
45 DEGREE											
3"	3211-0345	1.0	1.5	P	T	24	14	2"	\$38.30	TUBED	1.75
4"	3211-0445	1.0	1.5	P	T	24	14	2"	\$59.60	TUBED	2.25
5"	3211-0545	1.0	1.5	P	T	24	14	2"	\$65.80	TUBED	2.80
6"	3211-0645	1.0	1.5	P	T	24	14	2"	\$79.10	TUBED	3.85
7"	3211-0745	1.0	1.5	P	S	24	22	2"	\$103.10	\$260.60	4.90
8"	3211-0845	1.5	1.5	S	S	22	22	2"	\$115.40	\$267.50	7.66
9"	3211-0945	1.5	1.5	S	S	22	22	2"	\$120.70	\$274.50	8.45
10"	3211-1045	1.5	1.5	S	S	22	22	2"	\$131.60	\$287.50	15.47
11"	3211-1145	1.5	1.5	S	S	22	22	2"	\$149.90	\$308.60	17.60
12"	3211-1245	1.5	1.5	S	S	22	22	2"	\$149.90	\$308.60	19.33
13"	3211-1345	1.5	1.5	S	S	20	20	2"	\$170.50	\$328.70	22.40
14"	3211-1445	1.5	1.5	S	S	20	20	2"	\$170.50	\$328.70	25.39
15"	3211-1545	1.5	1.5	S	S	20	20	2"	\$230.70	\$426.00	27.90
16"	3211-1645	1.5	1.5	S	S	20	20	4"	\$230.70	\$426.00	30.51
17"	3211-1745	1.5	1.5	S	S	20	20	4"	\$256.30	\$516.40	32.30
18"	3211-1845	1.5	1.5	S	S	20	20	4"	\$256.30	\$516.40	34.67
20"	3211-2045	1.5	1.5	S	S	20	20	4"	\$292.00	\$592.40	41.99
22"	3211-2245	1.5	1.5	S	S	20	20	4"	\$331.10	\$669.30	46.90
24"	3211-2445	1.5	1.5	S	S	20	20	4"	\$380.70	\$769.80	70.96
26"	3211-2645	1.5	1.5	S	S	18	18	4"	\$458.70	\$890.50	89.12
28"	3211-2845	1.5	1.5	S	S	18	18	4"	\$566.00	\$1,096.90	99.19
30"	3211-3045	1.5	1.5	S	S	18	18	4"	\$606.10	\$1,176.60	110.26
32"	3211-3245	1.5	1.5	S	S	18	18	4"	\$671.30	\$1,303.30	121.38
34"	3211-3445	1.5	1.5	S	S	16	16	4"	\$719.70	\$1,397.30	133.52
36"	3211-3645	1.5	1.5	S	S	16	16	4"	\$798.10	\$1,551.20	149.04
38"	3211-3845	1.5	1.5	S	S	16	16	4"	\$885.80	\$1,719.50	162.31
40"	3211-4045	1.5	1.5	S	S	16	16	4"	\$984.60	\$1,911.50	176.20
30 DEGREE											
3"	3211-0330	1.0	1.5	P	T	24	14	2"	\$59.60	TUBED	1.60
4"	3211-0430	1.0	1.5	P	T	24	14	2"	\$59.60	TUBED	2.00
5"	3211-0530	1.0	1.5	P	T	24	14	2"	\$65.80	TUBED	2.75
6"	3211-0630	1.0	1.5	P	T	24	14	2"	\$81.20	TUBED	3.65
7"	3211-0730	1.0	1.5	P	S	24	22	2"	\$103.10	\$236.90	4.80
8"	3211-0830	1.5	1.5	S	S	22	22	2"	\$110.60	\$248.10	6.87
9"	3211-0930	1.5	1.5	S	S	22	22	2"	\$117.10	\$252.40	9.48
10"	3211-1030	1.5	1.5	S	S	22	22	2"	\$128.00	\$258.10	12.98
11"	3211-1130	1.5	1.5	S	S	22	22	2"	\$143.30	\$271.10	15.49
12"	3211-1230	1.5	1.5	S	S	22	22	2"	\$143.30	\$271.10	18.67
13"	3211-1330	1.5	1.5	S	S	20	20	2"	\$166.00	\$279.60	21.44
14"	3211-1430	1.5	1.5	S	S	20	20	2"	\$166.00	\$279.60	24.92
15"	3211-1530	1.5	1.5	S	S	20	20	2"	\$203.00	\$358.00	27.80
16"	3211-1630	1.5	1.5	S	S	20	20	4"	\$203.00	\$358.00	30.25
17"	3211-1730	1.5	1.5	S	S	20	20	4"	\$217.70	\$433.60	33.69
18"	3211-1830	1.5	1.5	S	S	20	20	4"	\$217.70	\$433.60	36.86
20"	3211-2030	1.5	1.5	S	S	20	20	4"	\$242.60	\$489.70	40.52
22"	3211-2230	1.5	1.5	S	S	20	20	4"	\$273.80	\$550.10	45.95
24"	3211-2430	1.5	1.5	S	S	20	20	4"	\$314.90	\$632.60	58.95
26"	3211-2630	1.5	1.5	S	S	18	18	4"	\$408.50	\$792.80	75.08
28"	3211-2830	1.5	1.5	S	S	18	18	4"	\$448.40	\$868.80	82.97
30"	3211-3030	1.5	1.5	S	S	18	18	4"	\$501.60	\$973.80	91.71
32"	3211-3230	1.5	1.5	S	S	18	18	4"	\$523.10	\$1,013.60	100.23
34"	3211-3430	1.5	1.5	S	S	16	16	4"	\$604.30	\$1,172.90	132.18
36"	3211-3630	1.5	1.5	S	S	16	16	4"	\$663.80	\$1,288.80	122.29
38"	3211-3830	1.5	1.5	S	S	16	16	4"	\$730.10	\$1,415.50	132.58
40"	3211-4030	1.5	1.5	S	S	16	16	4"	\$802.90	\$1,556.70	142.99



- Elbows of dia. 4" - 7" are supplied press formed.
- Elbows of dia. 3" & 8" - 40" are only supplied segmented.
- Elbows are supplied with Van Stone Angle Flanges on both ends.
- Also available in Long Radius.



T= Tubed style. CLR= Center Line radius. P= Press formed halves stitch welded together. S= Segmented elbows.
 Notes: * 1.0 Galv and 1.5 SS



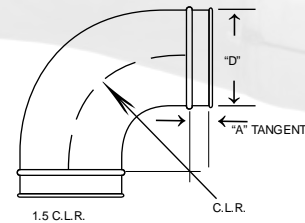
ELBOW TUBED

Ø	PART NO.	ENDS	CLR	GAUGE		TANGENTS		GALV. PRICE	SS 304 PRICE ◊	WEIGHT (GALV)
				GALV	SS	GALV	SS			
90 DEGREE										
3"	3214-0390	QF	1.5	16	14	2.00	2	\$56.40	\$87.90	3.50
4"	3214-0490	QF	1.5	16	14	2.00	2	\$56.40	\$90.30	5.00
5"	3214-0590	QF	1.5	14	14	2.00	2	\$107.20	\$182.10	7.40
6"	3214-0690	QF	1.5	14	14	2.00	2	\$143.90	\$222.30	10.25
8" ◊	3214-0890	QF	1.5	14	14	2.00	2	\$283.30	\$421.40	15.00
60 DEGREE										
3"	3214-0360	QF	1.5	16	14	2.00	2	\$56.40	\$87.90	2.31
4"	3214-0460	QF	1.5	16	14	2.00	2	\$56.40	\$90.30	3.33
5"	3214-0560	QF	1.5	14	14	2.00	2	\$107.20	\$182.10	4.95
6"	3214-0660	QF	1.5	14	14	2.00	2	\$143.90	\$222.30	6.67
8"	3214-0860	QF	1.5	14	14	2.00	2	\$283.30	\$421.40	9.98
45 DEGREE										
3"	3214-0345	QF	1.5	16	14	2.00	2	\$56.40	\$87.90	1.75
4"	3214-0445	QF	1.5	16	14	2.00	2	\$56.40	\$90.30	2.50
5"	3214-0545	QF	1.5	14	14	2.00	2	\$107.20	\$182.10	3.75
6"	3214-0645	QF	1.5	14	14	2.00	2	\$143.90	\$222.30	5.00
8"	3214-0845	QF	1.5	14	14	2.00	2	\$283.30	\$421.40	7.50
30 DEGREE										
3"	3214-0330	QF	1.5	16	14	2.00	2	\$56.40	\$87.90	1.15
4"	3214-0430	QF	1.5	16	14	2.00	2	\$56.40	\$90.30	1.65
5"	3214-0530	QF	1.5	14	14	2.00	2	\$107.20	\$182.10	2.48
6"	3214-0630	QF	1.5	14	14	2.00	2	\$143.90	\$222.30	3.33
8"	3214-0830	QF	1.5	14	14	2.00	2	\$283.30	\$421.40	4.95

Elbow Tubed



• Galvanized or stainless steel. (Specify if Stainless Steel.)



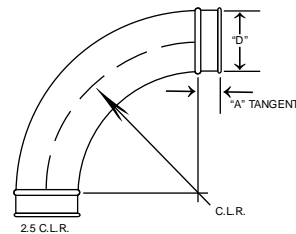
ELBOW TUBED LONG RADIUS

Ø	PART NO.	ENDS	CLR	GAUGE		TANGENTS		GALV. PRICE	SS 304 PRICE ◊	WEIGHT (GALV)
				GALV	SS	GALV	SS			
90 DEGREE										
3"	3214-0390LR	QF	2.5	16	14	2.00	2	\$61.40	\$123.10	5.00
4"	3214-0490LR	QF	2.5	16	14	2.00	2	\$61.40	\$164.00	7.00
5"	3214-0590LR	QF	2.5	14	14	2.00	2	\$107.20	\$280.20	11.25
6"	3214-0690LR	QF	2.5	14	14	2.00	2	\$147.30	\$337.20	14.75
8" ◊	3214-0890LR	QF	2.5	14	14	2.00	2	\$279.70	\$583.70	25.00
60 DEGREE										
3"	3214-0360LR	QF	2.5	16	14	2.00	2	\$61.40	\$123.10	3.33
4"	3214-0460LR	QF	2.5	16	14	2.00	2	\$61.40	\$164.00	4.62
5"	3214-0560LR	QF	2.5	14	14	2.00	2	\$107.20	\$280.20	7.26
6"	3214-0660LR	QF	2.5	14	14	2.00	2	\$147.30	\$337.20	8.91
8"	3214-0860LR	QF	2.5	14	14	2.00	2	\$279.70	\$583.70	16.50
45 DEGREE										
3"	3214-0345LR	QF	2.5	16	14	2.00	2	\$61.40	\$123.10	2.50
4"	3214-0445LR	QF	2.5	16	14	2.00	2	\$61.40	\$123.10	3.65
5"	3214-0545LR	QF	2.5	14	14	2.00	2	\$107.20	\$210.20	5.50
6"	3214-0645LR	QF	2.5	14	14	2.00	2	\$147.30	\$252.90	6.75
8"	3214-0845LR	QF	2.5	14	14	2.00	2	\$279.70	\$437.80	12.50
30 DEGREE										
3"	3214-0330LR	QF	2.5	16	14	2.00	2	\$61.40	\$123.10	1.65
4"	3214-0430LR	QF	2.5	16	14	2.00	2	\$61.40	\$123.10	2.31
5"	3214-0530LR	QF	2.5	14	14	2.00	2	\$107.20	\$210.20	3.63
6"	3214-0630LR	QF	2.5	14	14	2.00	2	\$147.30	\$252.90	4.46
8"	3214-0830LR	QF	2.5	14	14	2.00	2	\$279.70	\$437.80	8.25

Elbow Tubed Long Radius



• Galvanized or stainless steel. (Specify if Stainless Steel.)



◊ Items may take longer than standard lead times.



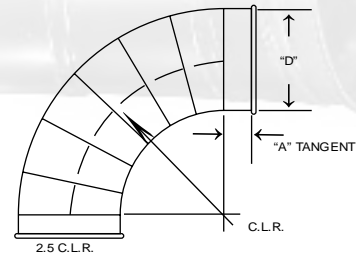
ELBOW HEAVY WALL

Ø	PART NO.	ENDS	TANGENT	CLR	GAUGE	GALV. PRICE	SS PRICE	WEIGHT (GALV)
90 DEGREE								
7"	3212-0790	QF	2.25"	2.5	16	\$152.10	\$320.90	9.42
8"	3212-0890	QF	2.25"	2.5	16	\$177.30	\$374.00	13.64
9"	3212-0990	QF	2.25"	2.5	16	\$184.30	\$388.80	16.64
10"	3212-1090	QF	2.25"	2.5	16	\$187.90	\$396.40	21.54
11"	3212-1190	QF	2.25"	2.5	16	\$222.10	\$468.30	27.65
12"	3212-1290	QF	2.25"	2.5	16	\$222.10	\$468.30	33.76
13"	3212-1390	QF	2.25"	2.5	16	\$247.00	\$521.10	40.07
14"	3212-1490	QF	2.25"	2.5	16	\$247.00	\$521.10	46.38
15"	3212-1590	QF	2.25"	2.5	16	\$370.60	\$781.50	52.61
16"	3212-1690	QF	2.25"	2.5	16	\$370.60	\$781.50	58.83
17"	3212-1790	QF	2.25"	2.5	16	\$404.60	\$853.50	66.14
18"	3212-1890	QF	2.25"	2.5	16	\$404.60	\$853.50	73.44
20"	3212-2090	QF	2.25"	2.5	16	\$580.10	\$1,223.50	85.40
22"	3212-2290	QF	2.25"	2.5	16	\$630.10	\$1,329.00	107.98
24"	3212-2490	QF	2.25"	2.5	16	\$724.60	\$1,528.40	132.63
60 DEGREE								
7"	3212-0760	QF	2.25"	2.5	16	\$109.10	\$230.20	8.65
8"	3212-0860	QF	2.25"	2.5	16	\$116.40	\$245.40	11.90
9"	3212-0960	QF	2.25"	2.5	16	\$137.90	\$290.90	14.21
10"	3212-1060	QF	2.25"	2.5	16	\$154.00	\$324.80	17.29
11"	3212-1160	QF	2.25"	2.5	16	\$168.30	\$354.80	20.65
12"	3212-1260	QF	2.25"	2.5	16	\$168.30	\$354.80	24.00
13"	3212-1360	QF	2.25"	2.5	16	\$191.50	\$404.00	28.68
14"	3212-1460	QF	2.25"	2.5	16	\$191.50	\$404.00	33.35
15"	3212-1560	QF	2.25"	2.5	16	\$225.60	\$475.90	37.09
16"	3212-1660	QF	2.25"	2.5	16	\$225.60	\$475.90	40.83
17"	3212-1760	QF	2.25"	2.5	16	\$252.40	\$532.30	45.85
18"	3212-1860	QF	2.25"	2.5	16	\$252.40	\$532.30	50.87
20"	3212-2060	QF	2.25"	2.5	16	\$322.30	\$679.70	62.19
22"	3212-2260	QF	2.25"	2.5	16	\$376.00	\$793.10	74.56
24"	3212-2460	QF	2.25"	2.5	16	\$432.40	\$912.00	86.93
45 DEGREE								
7"	3212-0745	QF	2.25"	2.5	16	\$103.80	\$219.00	7.82
8"	3212-0845	QF	2.25"	2.5	16	\$112.70	\$237.80	9.56
9"	3212-0945	QF	2.25"	2.5	16	\$116.40	\$245.40	11.30
10"	3212-1045	QF	2.25"	2.5	16	\$120.00	\$252.90	13.97
11"	3212-1145	QF	2.25"	2.5	16	\$125.40	\$264.50	16.92
12"	3212-1245	QF	2.25"	2.5	16	\$125.40	\$264.50	20.40
13"	3212-1345	QF	2.25"	2.5	16	\$136.00	\$286.90	23.85
14"	3212-1445	QF	2.25"	2.5	16	\$136.00	\$286.90	27.60
15"	3212-1545	QF	2.25"	2.5	16	\$177.30	\$374.00	30.56
16"	3212-1645	QF	2.25"	2.5	16	\$177.30	\$374.00	34.10
17"	3212-1745	QF	2.25"	2.5	16	\$207.70	\$437.90	39.80
18"	3212-1845	QF	2.25"	2.5	16	\$207.70	\$437.90	44.36
20"	3212-2045	QF	2.25"	2.5	16	\$241.70	\$509.80	52.60
22"	3212-2245	QF	2.25"	2.5	16	\$273.90	\$577.80	59.10
24"	3212-2445	QF	2.25"	2.5	16	\$315.00	\$664.50	64.78
30 DEGREE								
7"	3212-0730	QF	2.25"	2.5	16	\$100.20	\$211.40	5.18
8"	3212-0830	QF	2.25"	2.5	16	\$105.70	\$222.90	6.79
9"	3212-0930	QF	2.25"	2.5	16	\$109.10	\$230.20	8.40
10"	3212-1030	QF	2.25"	2.5	16	\$112.70	\$237.80	9.77
11"	3212-1130	QF	2.25"	2.5	16	\$116.40	\$245.40	11.44
12"	3212-1230	QF	2.25"	2.5	16	\$116.40	\$245.40	13.10
13"	3212-1330	QF	2.25"	2.5	16	\$127.10	\$268.10	16.09
14"	3212-1430	QF	2.25"	2.5	16	\$127.10	\$268.10	19.07
15"	3212-1530	QF	2.25"	2.5	16	\$143.20	\$302.10	22.94
16"	3212-1630	QF	2.25"	2.5	16	\$143.20	\$302.10	25.86
17"	3212-1730	QF	2.25"	2.5	16	\$155.80	\$328.50	29.40
18"	3212-1830	QF	2.25"	2.5	16	\$155.80	\$328.50	33.31
20"	3212-2030	QF	2.25"	2.5	16	\$170.20	\$358.80	42.15
22"	3212-2230	QF	2.25"	2.5	16	\$207.70	\$437.90	51.09
24"	3212-2430	QF	2.25"	2.5	16	\$238.80	\$503.70	56.91

Elbow Heavy Wall



- Heavy Wall Elbows are constructed of gores lapped over one another and spot welded.
- This is a directional elbow and supplied with an arrow to indicate the direction of flow.
- Specify Galvanized or Stainless Steel (304) Gauge: 16 gauge with 16 gauge collars CLR: Standard is 2.5xd.
- Other CLR's available upon request.



90° QF Heavy Wall 2.5CLR
 60° QF Heavy Wall 2.5CLR
 45° QF Heavy Wall 2.5CLR
 30° QF Heavy Wall 2.5CLR

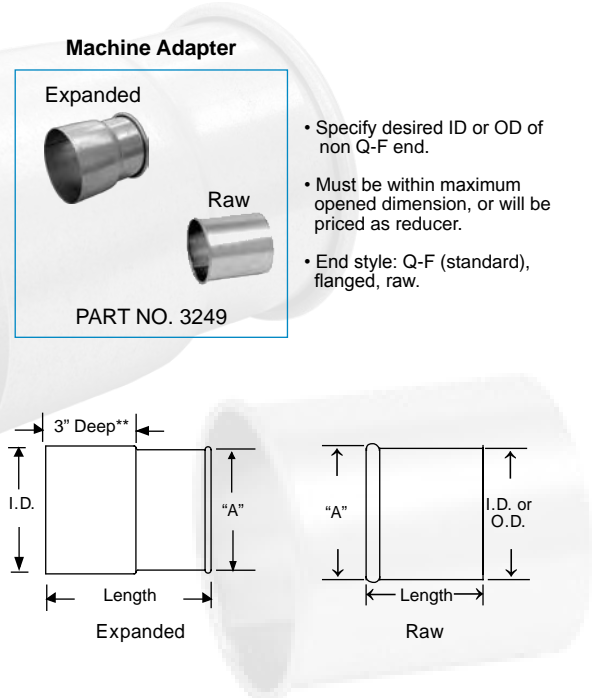
#-Denotes an item that is returnable. See page 59 for a full listing of returnable items.



MACHINE ADAPTER

Ø	PART NO.	RAW END ID	RAW END OD	GAUGE	APPROX. LENGTH	MAXIMUM OPEN DIM. ID	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3249-0300	2.90"	3.00"	22	5.5"	3.18"	\$19.20 #	\$34.80	0.60
4"	3249-0400	3.86"	3.93"	22	4"	4.30"	\$19.20 #	\$34.80	0.75
5"	3249-0500	4.87"	4.94"	22	4"	5.30"	\$21.30 #	\$40.00	0.95
6"	3249-0600	5.89"	5.96"	22	4"	6.30"	\$25.00 #	\$47.90	1.10
7"	3249-0700	6.89"	6.96"	22	4"	7.30"	\$26.90 #	\$51.50	1.35
8"	3249-0800	7.88"	7.95"	22	4"	8.30"	\$28.90 #	\$55.40	1.50
9"	3249-0900	8.88"	8.95"	22	4"	9.30"	\$30.60 #	\$59.00	1.75
10"	3249-1000	9.89"	9.95"	22	4"	10.30"	\$32.60 #	\$62.70	1.95
11"	3249-1100	10.88"	10.94"	22	4"	11.30"	\$34.70	\$66.30	2.10
12"	3249-1200	11.97"	12.04"	22	4"	12.30"	\$34.80 #	\$66.30	2.30
13"	3249-1300	12.97"	13.05"	20	5.5"	13.30"	\$36.80	\$70.00	2.45
14"	3249-1400	13.96"	14.04"	20	5.5"	14.30"	\$36.80 #	\$70.00	2.70
15"	3249-1500	14.97"	15.04"	20	5.5"	15.30"	\$38.40	\$74.90	3.05
16"	3249-1600	15.97"	16.04"	20	5.5"	16.30"	\$38.40 #	\$74.90	3.20
17"	3249-1700	16.97"	17.05"	20	5.5"	17.30"	\$42.40	\$81.00	3.32
18"	3249-1800	17.96"	18.04"	20	5.5"	18.30"	\$42.40 #	\$81.00	3.45
20"	3249-2000	19.96"	20.04"	20	5.5"	20.30"	\$43.90 #	\$84.70	3.90
22"	3249-2200	21.97"	22.05"	20	5.5"	22.30"	\$48.20 #	\$89.50	4.30
24"	3249-2400	23.94"	24.02"	20	5.5"	24.30"	\$55.50 #	\$102.90	5.60

*Published lengths are nominal and may vary slightly

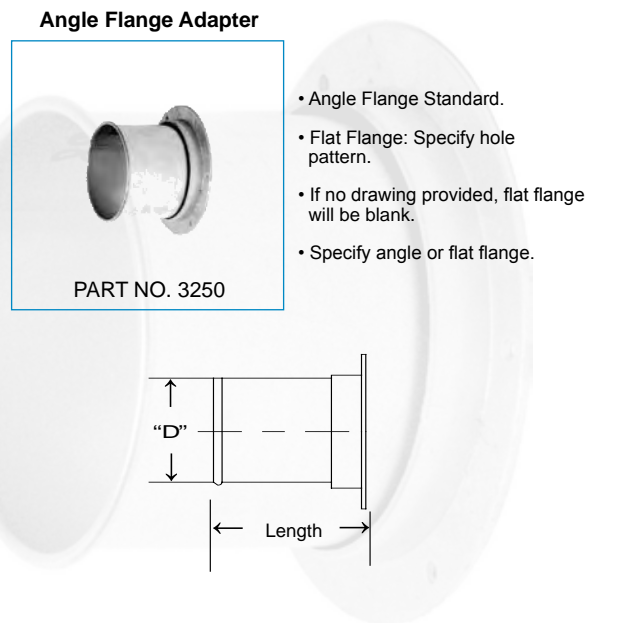


- Specify desired ID or OD of non Q-F end.
- Must be within maximum opened dimension, or will be priced as reducer.
- End style: Q-F (standard), flanged, raw.

ANGLE FLANGE ADAPTER

Ø	PART NO.	APPROX. LENGTH	GAUGE	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3250-0300	5"	22	\$40.70 #	\$70.60	1.40
4"	3250-0400	3.5"	22	\$40.70 #	\$70.60	1.70
5"	3250-0500	3.5"	22	\$42.80 #	\$78.50	2.15
6"	3250-0600	3.5"	22	\$51.20 #	\$87.80	2.55
7"	3250-0700	3.5"	22	\$55.20 #	\$94.40	3.10
8"	3250-0800	3.5"	22	\$57.60 #	\$99.20	3.15
9"	3250-0900	3.5"	22	\$64.50	\$101.60	3.25
10"	3250-1000	3.5"	22	\$67.90	\$105.70	5.00
11"	3250-1100	3.5"	22	\$75.20	\$110.80	5.60
12"	3250-1200	3.5"	22	\$75.20	\$110.80	6.15
13"	3250-1300	5"	20	\$78.40	\$119.70	7.02
14"	3250-1400	5"	20	\$78.40	\$119.70	7.70
15"	3250-1500	5"	20	\$85.30	\$129.40	9.25
16"	3250-1600	5"	20	\$85.30	\$129.40	11.05
17"	3250-1700	5"	20	\$92.50	\$161.10	12.90
18"	3250-1800	5"	20	\$92.50	\$161.10	15.20
20"	3250-2000	5"	20	\$98.40	\$171.60	19.15
22"	3250-2200	5"	20	\$105.30	\$184.70	26.05
24"	3250-2400	5"	20	\$121.10	\$212.40	30.00

*Published lengths are nominal and may vary slightly



- Angle Flange Standard.
- Flat Flange: Specify hole pattern.
- If no drawing provided, flat flange will be blank.
- Specify angle or flat flange.



HOSE ADAPTER

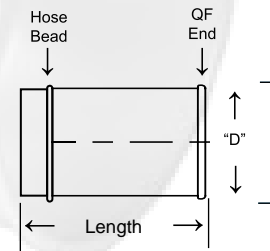
Ø	PART NO.	APPROX. LENGTH	GAUGE	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3282-0300	5.5"	22	\$19.50 #	\$35.40	0.60
4"	3282-0400	4"	22	\$19.50 #	\$35.40	0.75
5"	3282-0500	4"	22	\$21.70 #	\$40.70	0.95
6"	3282-0600	4"	22	\$25.50 #	\$48.70	1.10
7"	3282-0700	4"	22	\$27.50 #	\$52.40	1.35
8"	3282-0800	4"	22	\$29.50 #	\$56.30	1.50
9"	3282-0900	4"	22	\$31.20	\$60.10	1.75
10"	3282-1000	4"	22	\$33.20	\$63.80	1.95
11"	3282-1100	4"	22	\$35.50	\$67.50	2.10
12"	3282-1200	4"	22	\$35.50	\$67.50	2.30
13"	3282-1300	5.5"	20	\$37.50	\$71.20	2.45
14"	3282-1400	5.5"	20	\$37.50	\$71.20	2.70
15"	3282-1500	5.5"	20	\$39.20	\$76.20	3.05
16"	3282-1600	5.5"	20	\$39.20	\$76.20	3.20
17"	3282-1700	5.5"	20	\$43.20	\$82.40	3.32
18"	3282-1800	5.5"	20	\$43.20	\$82.40	3.45
20"	3282-2000	5.5"	20	\$44.70	\$86.20	3.90
22"	3282-2200	5.5"	20	\$49.10	\$91.10	4.30
24"	3282-2400	5.5"	20	\$56.40	\$104.70	5.60

*Published lengths are nominal and may vary slightly

Hose Adapter



- Hose adapters are available in Galvanized or Stainless Steel.



BELL MOUTH ADAPTER

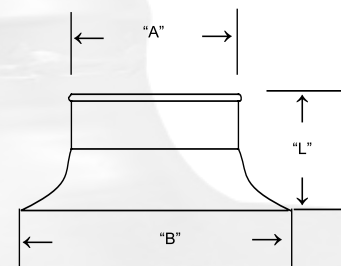
Ø (A)	Ø (B)	PART NO.	LENGTH (L)	GALV. PRICE	SS 304 PRICE ◊	WEIGHT (GALV)
3"	8"	3251-0300	4.5"	\$70.80	\$119.30	0.90
4"	9"	3251-0400	4.5"	\$70.80	\$119.30	1.05
5"	10"	3251-0500	4.5"	\$82.10	\$138.30	1.15
6"	12"	3251-0600	5.0"	\$90.00	\$151.70	1.85
7"	13"	3251-0700	5.0"	\$96.20	\$161.90	1.95
8"	14"	3251-0800	5.0"	\$103.20	\$173.80	2.10
9"	15"	3251-0900	5.0"	\$112.80	\$190.00	2.25
10"	16"	3251-1000	5.0"	\$121.40	\$204.70	3.00
11"	19"	3251-1100	6.0"	\$145.10	\$244.50	3.70
12"	20"	3251-1200	6.0"	\$145.10	\$244.50	4.10
13"	21"	3251-1300	6.0"	\$147.70	CALL	4.50
14"	22"	3251-1400	6.0"	\$147.70	CALL	5.75
15"	23"	3251-1500	6.0"	\$150.40	CALL	6.25
16"	26"	3251-1600	7.0"	\$150.40	CALL	7.50
17"	27"	3251-1700	7.0"	\$174.00	CALL	8.25
18"	28"	3251-1800	7.0"	\$174.00	CALL	9.50
20"	30"	3251-2000	7.0"	\$197.50	CALL	10.75
22"	34"	3251-2200	8.0"	\$221.10	CALL	12.25
24"	36"	3251-2400	8.0"	\$254.30	CALL	14.50

◊ Items may take longer than standard lead times.

Bell Mouth Adapter



- A flared end adapter.
- Increases capture ratio of air, dust, smoke etc.
- 20 gauge





BRANCH

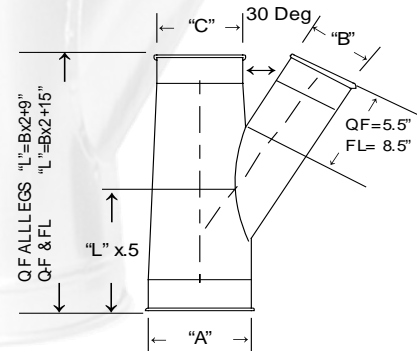
Ø	PART NO.	ENDS	GAUGE		GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
			GALV	SS			
3"	3220-03XX	QF	22	22	\$103.50	\$211.00	2.32
4"	3220-04XX	QF	22	22	\$103.50	\$211.00	3.00
5"	3220-05XX	QF	22	22	\$108.90	\$215.10	3.75
6"	3220-06XX	QF	22	22	\$112.60	\$219.90	4.25
7"	3220-07XX	QF	22	22	\$114.40	\$224.60	5.00
8"	3220-08XX	QF	22	22	\$117.10	\$230.90	6.00
9"	3220-09XX	QF	22	22	\$122.50	\$239.80	7.25
10"	3220-10XX	QF	22	22	\$130.70	\$255.20	8.50
11"	3220-11XX	QF	22	22	\$145.20	\$285.30	9.25
12"	3220-12XX	QF	22	22	\$145.20	\$285.30	10.75
13"	3220-13XX	QF	20	20	\$170.50	\$336.20	11.40
14"	3220-14XX	QF	20	20	\$170.50	\$336.20	13.50
15"	3220-15XX	QF	20	20	\$196.10	\$386.60	15.60
16"	3220-16XX	QF	20	20	\$196.10	\$386.60	17.56
17"	3220-17XX	QF	20	20	\$213.40	\$421.70	19.00
18"	3220-18XX	QF	20	20	\$213.40	\$421.70	21.00
20"	3220-20XX	QF	20	20	\$256.90	\$501.80	30.00
22"	3220-22XX	QF	20	20	\$323.10	\$631.60	39.50
24"	3220-24XX	QF	20	20	\$371.60	\$726.40	53.50
26"	3220-26XX	FLANGE	18	18	\$410.30	\$872.80	74.00
28"	3220-28XX	FLANGE	18	18	\$524.70	\$947.50	98.00
30"	3220-30XX	FLANGE	18	18	\$590.00	\$1,034.50	117.05
32"	3220-32XX	FLANGE	18	18	\$660.80	\$1,082.20	125.94
34"	3220-34XX	FLANGE	18	18	\$735.20	\$1,152.30	134.83
36"	3220-36XX	FLANGE	18	18	\$809.70	\$1,187.30	142.78
38"	3220-38XX	FLANGE	18	18	\$891.30	\$1,281.00	153.47
40"	3220-40XX	FLANGE	18	18	\$978.50	\$1,351.20	162.81

NOTE: See page 59 for returnable sizes

Branch



- All branches priced by large end.
- 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".



On sizes above 24", "A" is flanged. Add the cost of flange if "B" and "C" require flanges.

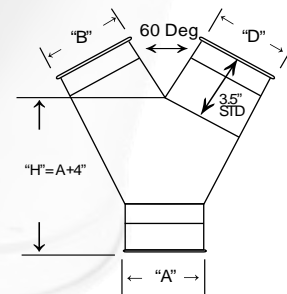
Y BRANCH

Ø	PART NO.	ENDS	GAUGE		GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
			GALV	SS			
3"	3221-03XX	QF	22	22	\$133.00	\$270.10	1.50
4"	3221-04XX	QF	22	22	\$133.00	\$270.10	1.75
5"	3221-05XX	QF	22	22	\$140.20	\$273.70	2.00
6"	3221-06XX	QF	22	22	\$146.10	\$285.60	2.75
7"	3221-07XX	QF	22	22	\$150.40	\$295.30	3.25
8"	3221-08XX	QF	22	22	\$157.10	\$306.70	4.50
9"	3221-09XX	QF	22	22	\$165.10	\$321.90	5.25
10"	3221-10XX	QF	22	22	\$168.30	\$331.00	6.75
11"	3221-11XX	QF	22	22	\$193.30	\$377.20	8.00
12"	3221-12XX	QF	22	22	\$193.30	\$377.20	10.25
13"	3221-13XX	QF	20	20	\$232.70	\$454.10	12.50
14"	3221-14XX	QF	20	20	\$232.70	\$454.10	14.00
15"	3221-15XX	QF	20	20	\$258.80	\$505.90	15.75
16"	3221-16XX	QF	20	20	\$258.80	\$505.90	17.00
17"	3221-17XX	QF	20	20	\$287.50	\$560.80	18.50
18"	3221-18XX	QF	20	20	\$287.50	\$560.80	20.00
20"	3221-20XX	QF	20	20	\$342.00	\$667.80	24.50
22"	3221-22XX	QF	20	20	\$392.90	\$768.90	29.00
24"	3221-24XX	QF	20	20	\$452.00	\$884.20	36.00
26"	3221-26XX	FLANGE	18	18	\$519.60	\$946.20	69.00
28"	3221-28XX	FLANGE	18	18	\$597.10	\$1,017.60	93.00
30"	3221-30XX	FLANGE	18	18	\$656.40	\$1,083.10	112.05
32"	3221-32XX	FLANGE	18	18	\$722.90	\$1,148.60	120.94
34"	3221-34XX	FLANGE	18	18	\$796.90	\$1,202.10	129.83
36"	3221-36XX	FLANGE	18	18	\$872.60	\$1,309.20	137.78
38"	3221-38XX	FLANGE	18	18	\$963.30	\$1,422.30	148.47
40"	3221-40XX	FLANGE	18	18	\$1,059.50	\$1,517.50	157.81

Y Branch



- All branches priced by large end.
- Standard 60° Optional 90°.
- When ordering specify A, B, D.
- Both B & D must be at least 50% of A. With B or D being 80% of the opposite leg
- Flange Leg: Length = 4.5" Height = A + 4"



On sizes above 24", "A" is flanged. Add the cost of flange if "B" and "D" require flanges.



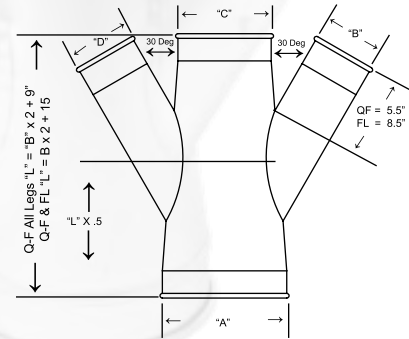
DOUBLE BRANCH

Ø	PART NO.	ENDS	GAUGE		GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
			GALV	SS			
3"	3226-03XX	QF	22	22	\$132.50	\$269.00	2.62
4"	3226-04XX	QF	22	22	\$132.50	\$269.00	3.50
5"	3226-05XX	QF	22	22	\$139.50	\$272.50	4.35
6"	3226-06XX	QF	22	22	\$145.50	\$284.40	5.00
7"	3226-07XX	QF	22	22	\$149.70	\$294.00	6.00
8"	3226-08XX	QF	22	22	\$156.40	\$305.30	7.25
9"	3226-09XX	QF	22	22	\$164.30	\$320.50	8.50
10"	3226-10XX	QF	22	22	\$167.60	\$329.60	10.00
11"	3226-11XX	QF	22	22	\$192.30	\$375.60	10.75
12"	3226-12XX	QF	22	22	\$192.30	\$375.60	12.25
13"	3226-13XX	QF	20	20	\$231.60	\$452.20	13.15
14"	3226-14XX	QF	20	20	\$231.60	\$452.20	14.95
15"	3226-15XX	QF	20	20	\$257.60	\$503.70	17.35
16"	3226-16XX	QF	20	20	\$257.60	\$503.70	19.56
17"	3226-17XX	QF	20	20	\$286.20	\$558.40	21.00
18"	3226-18XX	QF	20	20	\$286.20	\$558.40	26.00
20"	3226-20XX	QF	20	20	\$340.50	\$664.90	35.00
22"	3226-22XX	QF	20	20	\$391.20	\$765.60	49.50
24"	3226-24XX	QF	20	20	\$449.80	\$880.50	68.40
26"	3226-26XX	FLANGE	18	18	\$517.20	\$942.10	104.00
28"	3226-28XX	FLANGE	18	18	\$594.40	\$1,013.30	128.00
30"	3226-30XX	FLANGE	18	18	\$653.40	\$1,078.50	153.00
32"	3226-32XX	FLANGE	18	18	\$719.70	\$1,143.70	164.94
34"	3226-34XX	FLANGE	18	18	\$793.40	\$1,196.90	179.83
36"	3226-36XX	FLANGE	18	18	\$868.70	\$1,303.60	187.78
38"	3226-38XX	FLANGE	18	18	\$958.90	\$1,416.20	203.49
40"	3226-40XX	FLANGE	18	18	\$1,054.70	\$1,511.00	222.81

Double Branch



- All branches priced by large end.
- 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°



On sizes above 24", "A" is flanged. Add the cost of flange if "B", "C", and "D" require flanges.

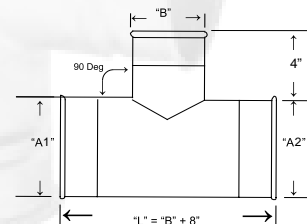
T-BRANCH

Ø	PART NO.	ENDS	GAUGE		GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
			GALV	SS			
3"	3227-03XX	QF	22	22	\$105.00	\$213.70	1.50
4"	3227-04XX	QF	22	22	\$105.00	\$213.70	2.00
5"	3227-05XX	QF	22	22	\$110.40	\$217.90	2.75
6"	3227-06XX	QF	22	22	\$114.10	\$222.90	3.25
7"	3227-07XX	QF	22	22	\$115.90	\$227.60	4.00
8"	3227-08XX	QF	22	22	\$118.80	\$234.20	4.75
9"	3227-09XX	QF	22	22	\$124.20	\$243.00	5.50
10"	3227-10XX	QF	22	22	\$132.50	\$258.50	6.00
11"	3227-11XX	QF	22	22	\$147.20	\$289.10	7.50
12"	3227-12XX	QF	22	22	\$147.20	\$289.10	8.75
13"	3227-13XX	QF	20	20	\$172.90	\$341.00	10.25
14"	3227-14XX	QF	20	20	\$172.90	\$341.00	12.00
15"	3227-15XX	QF	20	20	\$198.90	\$391.60	13.25
16"	3227-16XX	QF	20	20	\$198.90	\$391.60	14.00
17"	3227-17XX	QF	20	20	\$216.30	\$427.30	16.00
18"	3227-18XX	QF	20	20	\$216.30	\$427.30	18.25
20"	3227-20XX	QF	20	20	\$260.50	\$508.10	20.50
22"	3227-22XX	QF	20	20	\$327.60	\$639.90	24.75
24"	3227-24XX	QF	20	20	\$376.80	\$735.90	28.95
26"	3227-26XX	FLANGE	18	18	\$416.00	\$1,049.30	40.28
28"	3227-28XX	FLANGE	18	18	\$531.90	\$1,126.70	45.01
30"	3227-30XX	FLANGE	18	18	\$598.20	\$1,218.60	58.53
32"	3227-32XX	FLANGE	18	18	\$670.00	\$1,270.40	62.97
34"	3227-34XX	FLANGE	18	18	\$745.40	\$1,343.60	66.42
36"	3227-36XX	FLANGE	18	18	\$821.00	\$1,382.50	70.30
38"	3227-38XX	FLANGE	18	18	\$903.70	\$1,512.50	75.74
40"	3227-40XX	FLANGE	18	18	\$992.20	\$1,608.40	80.41

T-Branch



- All branches priced by large end.
- When ordering specify A,B.
- "A1" to "A2" must be the same dimension, however "B" must be equal to or smaller than the "A" dimensions.



On sizes above 24", "A1" is flanged. Add the cost of flange if "A2" and/or "B" requires a flange.



IN CUT

Ø	PART NO.	ENDS	GAUGE		GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
			GALV	SS			
3"	3223-XX03	QF	22	22	\$46.80	\$90.30	1.25
4"	3223-XX04	QF	22	22	\$46.80	\$90.30	1.48
5"	3223-XX05	QF	22	22	\$48.00	\$92.70	2.15
6"	3223-XX06	QF	22	22	\$51.60	\$98.20	2.84
7"	3223-XX07	QF	22	22	\$54.50	\$104.60	3.53
8"	3223-XX08	QF	22	22	\$57.10	\$109.70	4.48
9"	3223-XX09	QF	22	22	\$59.50	\$115.70	5.38
10"	3223-XX10	QF	22	22	\$64.50	\$123.40	6.47
11"	3223-XX11	QF	22	22	\$69.40	\$132.10	7.62
12"	3223-XX12	QF	22	22	\$69.40	\$132.10	8.77
13"	3223-XX13	QF	20	20	\$78.40	\$151.00	11.23
14"	3223-XX14	QF	20	20	\$78.40	\$151.00	13.68
15"	3223-XX15	QF	20	20	\$88.40	\$169.50	15.79
16"	3223-XX16	QF	20	20	\$88.40	\$169.50	17.20
17"	3223-XX17	QF	20	20	\$98.30	\$189.00	19.26
18"	3223-XX18	QF	20	20	\$98.30	\$189.00	21.29
20"	3223-XX20	QF	20	20	\$156.20	\$226.10	25.58
22"	3223-XX22	QF	20	20	\$214.90	\$492.70	30.47
24"	3223-XX24	QF	20	20	\$247.20	\$566.60	35.36
26"	3223-XX26	FLANGE	18	18	\$311.50	\$824.20	40.28
28"	3223-XX28	FLANGE	18	18	\$340.50	\$897.00	45.01
30"	3223-XX30	FLANGE	18	18	\$376.80	\$970.30	56.53
32"	3223-XX32	FLANGE	18	18	\$413.20	\$989.90	62.97
34"	3223-XX34	FLANGE	18	18	\$500.60	\$1,024.10	67.42
36"	3223-XX36	FLANGE	18	18	\$551.80	\$1,048.80	71.38
38"	3223-XX38	FLANGE	18	18	\$582.50	\$1,158.60	76.74
40"	3223-XX40	FLANGE	18	18	\$613.00	\$1,232.90	81.41

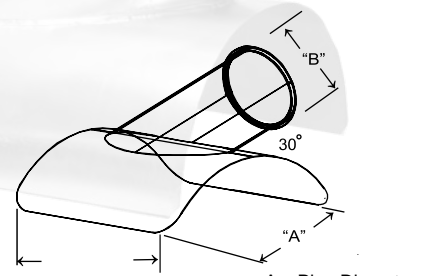
*XX = A dimension, Number = B dimension. Gauge based on "A"

In Cut



PART NO. 3223

- Priced by 'B' diameter.
- Specify 'A' and 'B' diameter and end treatment.
- Standard 30° Optional 45°.
- Incut used to cut into existing lines to begin QF system.



Saddle length + width = 3" all directions from Branch Tube (B).
A = Pipe Diameter

TAP IN

Ø	PART NO.	ENDS	GAUGE		GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
			GALV	SS			
3"	3224-XX03	QF	22	22	\$46.80	\$90.30	0.45
4"	3224-XX04	QF	22	22	\$46.80	\$90.30	0.62
5"	3224-XX05	QF	22	22	\$48.00	\$92.70	0.84
6"	3224-XX06	QF	22	22	\$51.60	\$98.20	1.12
7"	3224-XX07	QF	22	22	\$54.50	\$104.60	1.35
8"	3224-XX08	QF	22	22	\$57.10	\$109.70	1.63
9"	3224-XX09	QF	22	22	\$59.50	\$115.70	1.94
10"	3224-XX10	QF	22	22	\$64.50	\$123.40	2.26
11"	3224-XX11	QF	22	22	\$69.40	\$132.10	2.47
12"	3224-XX12	QF	22	22	\$69.40	\$132.10	2.92
13"	3224-XX13	QF	20	20	\$78.40	\$151.00	3.30
14"	3224-XX14	QF	20	20	\$78.40	\$151.00	4.41
15"	3224-XX15	QF	20	20	\$88.40	\$169.50	5.10
16"	3224-XX16	QF	20	20	\$88.40	\$169.50	5.60
17"	3224-XX17	QF	20	20	\$98.30	\$189.00	6.10
18"	3224-XX18	QF	20	20	\$98.30	\$189.00	6.74
20"	3224-XX20	QF	20	20	\$156.20	\$226.10	7.68
22"	3224-XX22	QF	20	20	\$214.90	\$492.70	8.94
24"	3224-XX24	QF	20	20	\$247.20	\$566.60	11.25
26"	3224-XX26	FLANGE	18	18	\$311.50	\$824.20	35.28
28"	3224-XX28	FLANGE	18	18	\$340.50	\$897.00	40.00
30"	3224-XX30	FLANGE	18	18	\$376.80	\$970.30	51.53
32"	3224-XX32	FLANGE	18	18	\$413.20	\$989.90	57.97
34"	3224-XX34	FLANGE	18	18	\$500.60	\$1,024.10	62.42
36"	3224-XX36	FLANGE	18	18	\$551.80	\$1,048.80	66.38
38"	3224-XX38	FLANGE	18	18	\$582.50	\$1,158.60	71.74
40"	3224-XX40	FLANGE	18	18	\$613.00	\$1,232.90	79.41

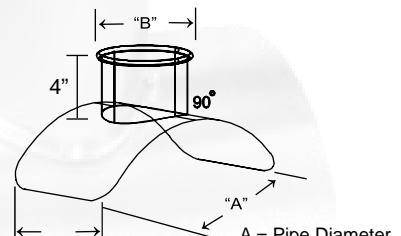
*XX = A dimension, Number = B dimension. Gauge based on "A"

Tap In



PART NO. 3224

- Priced by 'B' diameter.
- Specify 'A' and 'B' diameter and end treatment.
- Tap In used to cut into existing lines to begin QF system.



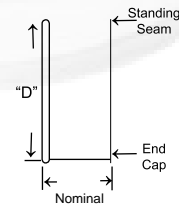
Saddle length + width = 2" all directions from Branch Tube (B).
A = Pipe Diameter

END CAP

Ø	PART NO.	ENDS	GAUGE		GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
			GALV	SS			
3"	3151-0300	QF	18	18	\$13.30	\$25.70	0.30
4"	3151-0400	QF	22	22	\$13.30	\$25.70	0.37
5"	3151-0500	QF	22	22	\$14.40	\$28.50	0.50
6"	3151-0600	QF	22	22	\$16.20	\$31.50	0.72
7"	3151-0700	QF	22	22	\$18.30	\$35.70	0.92
8"	3151-0800	QF	22	22	\$19.30	\$38.50	1.10
9"	3151-0900	QF	22	22	\$21.20	\$41.40	1.40
10"	3151-1000	QF	22	22	\$22.10	\$44.40	1.65
11"	3151-1100	QF	22	22	\$23.30	\$47.30	1.85
12"	3151-1200	QF	22	22	\$23.30	\$47.30	2.05
13"	3151-1300	QF	20	20	\$24.90	\$50.00	2.45
14"	3151-1400	QF	20	20	\$24.90	\$50.00	3.10
15"	3151-1500	QF	20	20	\$26.10	\$52.80	3.55
16"	3151-1600	QF	20	20	\$26.10	\$52.80	4.00
17"	3151-1700	QF	20	20	\$27.70	\$55.50	4.45
18"	3151-1800	QF	20	20	\$27.70	\$55.50	4.90
20"	3151-2000	QF	20	20	\$29.50	\$60.00	5.45
22"	3151-2200	QF	20	20	\$30.50	\$73.70	6.30
24"	3151-2400	QF	20	20	\$35.10	\$84.70	7.90



- End Caps enable users to close off taps for future use.

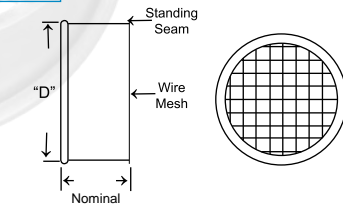


END CAP WITH BIRD SCREEN

Ø	PART NO.	ENDS	GAUGE		GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
			GALV	SS			
3"	3152-0300	QF	18	18	\$33.70	\$37.40	0.25
4"	3152-0400	QF	22	22	\$33.70	\$37.40	0.30
5"	3152-0500	QF	22	22	\$35.10	\$40.20	0.35
6"	3152-0600	QF	22	22	\$36.50	\$43.10	0.52
7"	3152-0700	QF	22	22	\$38.90	\$47.40	0.60
8"	3152-0800	QF	22	22	\$39.90	\$50.30	0.70
9"	3152-0900	QF	22	22	\$41.70	\$53.20	0.80
10"	3152-1000	QF	22	22	\$42.60	\$56.20	0.90
11"	3152-1100	QF	22	22	\$44.00	\$59.00	0.95
12"	3152-1200	QF	22	22	\$44.00	\$59.00	1.00
13"	3152-1300	QF	20	20	\$45.30	\$61.90	1.15
14"	3152-1400	QF	20	20	\$45.30	\$61.90	1.25
15"	3152-1500	QF	20	20	\$46.50	\$64.80	1.36
16"	3152-1600	QF	20	20	\$46.50	\$64.80	1.48
17"	3152-1700	QF	20	20	\$48.40	\$67.50	1.60
18"	3152-1800	QF	20	20	\$48.40	\$67.50	1.75
20"	3152-2000	QF	20	20	\$50.00	\$71.90	1.90
22"	3152-2200	QF	20	20	\$51.10	\$85.80	2.10
24"	3152-2400	QF	20	20	\$58.50	\$98.60	2.85



- End cap with birdscreen 1/2" galvanized wire mesh.



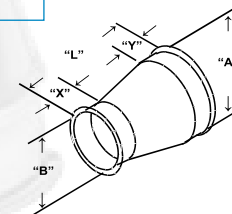
REDUCER

Ø	PART NO.	ENDS	GAUGE		GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
			GALV	SS			
3"	3222-03XX	QF	22	22	\$43.80	\$80.40	1.00
4"	3222-04XX	QF	22	22	\$43.80	\$80.40	1.25
5"	3222-05XX	QF	22	22	\$44.60	\$80.90	1.50
6"	3222-06XX	QF	22	22	\$46.90	\$88.10	1.75
7"	3222-07XX	QF	22	22	\$47.20	\$89.30	2.00
8"	3222-08XX	QF	22	22	\$48.10	\$89.90	2.25
9"	3222-09XX	QF	22	22	\$54.50	\$103.00	2.50
10"	3222-10XX	QF	22	22	\$55.30	\$104.00	3.00
11"	3222-11XX	QF	22	22	\$65.20	\$124.60	3.50
12"	3222-12XX	QF	22	22	\$65.20	\$124.60	3.75
13"	3222-13XX	QF	22	22	\$77.80	\$145.30	4.00
14"	3222-14XX	QF	22	22	\$77.80	\$145.30	4.50
15"	3222-15XX	QF	22	22	\$107.30	\$200.30	6.00
16"	3222-16XX	QF	20	20	\$107.30	\$200.30	7.00
17"	3222-17XX	QF	20	20	\$111.90	\$209.10	10.25
18"	3222-18XX	QF	20	20	\$111.90	\$209.10	21.00
20"	3222-20XX	QF	20	20	\$118.90	\$224.40	30.00
22"	3222-22XX	QF	20	20	\$135.40	\$254.20	39.50
24"	3222-24XX	QF	20	20	\$149.20	\$292.40	53.50
26"	3222-26XX	FLANGE	18	18	\$163.50	\$361.60	74.00
28"	3222-28XX	FLANGE	18	18	\$180.40	\$401.20	98.00
30"	3222-30XX	FLANGE	18	18	\$196.50	\$435.10	117.05
32"	3222-32XX	FLANGE	18	18	\$217.10	\$474.60	125.94
34"	3222-34XX	FLANGE	18	18	\$238.10	\$525.50	134.83
36"	3222-36XX	FLANGE	18	18	\$262.50	\$580.70	142.78
38"	3222-38XX	FLANGE	18	18	\$289.40	\$638.40	153.47
40"	3222-40XX	FLANGE	18	18	\$318.20	\$704.00	162.81



- Priced by large end 'A'.
- 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.

NOTE: See page 47 for ordering instructions



On sizes above 24", "A" is flanged. Add the cost of flange if "B" requires a flange.

NOTE: See page 59 for returnable sizes

#-Denotes an item that is returnable. See page 59 for a full listing of returnable items.



MANUAL DIVERTER VALVE ◇

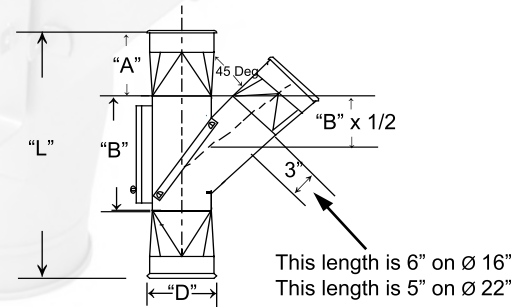
Ø	PART NO.	ENDS	D	B	A	L	HOUSING GAUGE	BLACK METAL PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3235-0345	QF	3"	14"	6"	26"	3/16"	\$1,213.20	\$1,714.40	15.00
4"	3235-0445	QF	4"	14"	6"	26"	3/16"	\$1,213.20	\$1,714.40	20.00
5"	3235-0545	QF	5"	15.25"	6"	27.25"	3/16"	\$1,366.90	\$1,873.70	30.00
6"	3235-0645	QF	6"	16"	6"	28"	3/16"	\$1,461.10	\$2,001.20	44.00
7"	3235-0745	QF	7"	16"	6"	28"	3/16"	\$1,539.40	\$2,109.50	60.00
8"	3235-0845	QF	8"	17"	6"	29"	3/16"	\$1,611.80	\$2,208.40	66.50
9"	3235-0945	QF	9"	18"	8"	34"	3/16"	\$1,684.30	\$2,307.10	85.40
10"	3235-1045	QF	10"	20"	8"	36"	3/16"	\$1,753.90	\$2,402.70	100.00
11"	3235-1145	QF	11"	20"	8"	36"	3/16"	\$1,868.40	\$2,559.00	115.00
12"	3235-1245	QF	12"	24"	8"	40"	3/16"	\$1,868.40	\$2,559.00	130.00
13"	3235-1345	QF	13"	24"	8"	40"	3/16"	\$2,042.30	\$2,797.90	146.50
14"	3235-1445	QF	14"	28"	8"	44"	3/16"	\$2,042.30	\$2,797.90	170.00
15"	3235-1545	QF	15"	28"	8"	44"	3/16"	\$2,216.30	\$3,037.00	190.00
16"	3235-1645	QF	16"	32"	8"	48"	3/16"	\$2,216.30	\$3,037.00	220.00
17"	3235-1745	QF	17"	32"	8"	48"	3/16"	\$2,391.70	\$3,275.80	337.00
18"	3235-1845	QF	18"	36"	8"	52"	3/16"	\$2,391.70	\$3,275.80	392.00
20"	3235-2045	QF	20"	40"	10"	60"	3/16"	\$2,496.00	\$3,419.40	447.00
22"	3235-2245	QF	22"	41.25"	10"	61.25"	3/16"	\$2,600.40	\$3,562.70	522.50
24"	3235-2445	QF	24"	48"	10"	68"	3/16"	\$2,990.50	\$4,097.10	625.10

◇ Diverter Valves have a lead time of 7 days minimum

Manual Diverter Valve



- High efficiency, economical method of diverting flow of material or air.
- Constructed of heavy 3/16" thick and painted metal, with welded seams. Supplied with heavy duty flange bearings, and rubber seal in door.
- Manual Open and Close.
- 45° angle only.
- Other sizes available upon request.
- Available in black metal painted (standard) or stainless steel (optional).



Manual

AUTOMATIC DIVERTER VALVE ◇

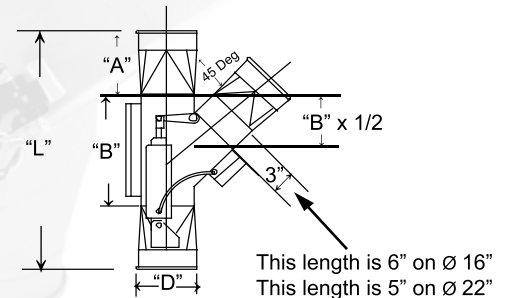
Ø	PART NO.	ENDS	D	B	A	L	HOUSING GAUGE	BLACK METAL PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3236-0345	QF	3"	14"	6"	26"	3/16"	\$1,917.70	\$2,708.60	22.50
4"	3236-0445	QF	4"	14"	6"	26"	3/16"	\$1,917.70	\$2,708.60	27.00
5"	3236-0545	QF	5"	15.25"	6"	27.25"	3/16"	\$2,093.10	\$2,868.00	37.50
6"	3236-0645	QF	6"	16"	6"	28"	3/16"	\$2,326.40	\$3,186.60	51.00
7"	3236-0745	QF	7"	16"	6"	28"	3/16"	\$2,384.40	\$3,266.50	67.50
8"	3236-0845	QF	8"	17"	6"	29"	3/16"	\$2,465.60	\$3,377.80	74.00
9"	3236-0945	QF	9"	18"	8"	34"	3/16"	\$2,558.40	\$3,505.20	92.90
10"	3236-1045	QF	10"	20"	8"	36"	3/16"	\$2,733.80	\$3,744.50	107.50
11"	3236-1145	QF	11"	20"	8"	36"	3/16"	\$2,907.70	\$3,983.30	140.00
12"	3236-1245	QF	12"	24"	8"	40"	3/16"	\$2,907.70	\$3,983.30	154.00
13"	3236-1345	QF	13"	24"	8"	40"	3/16"	\$3,081.60	\$4,222.40	177.50
14"	3236-1445	QF	14"	28"	8"	44"	3/16"	\$3,081.60	\$4,222.40	198.50
15"	3236-1545	QF	15"	28"	8"	44"	3/16"	\$3,712.20	\$5,085.80	227.40
16"	3236-1645	QF	16"	32"	8"	48"	3/16"	\$3,712.20	\$5,085.80	260.00
17"	3236-1745	QF	17"	32"	8"	48"	3/16"	\$4,031.10	\$5,522.50	345.00
18"	3236-1845	QF	18"	36"	8"	52"	3/16"	\$4,031.10	\$5,522.50	400.00
20"	3236-2045	QF	20"	40"	10"	60"	3/16"	\$4,323.90	\$5,924.00	455.00
22"	3236-2245	QF	22"	41.25"	10"	61.25"	3/16"	\$4,938.40	\$6,765.30	530.00
24"	3236-2445	QF	24"	48"	10"	68"	3/16"	\$5,679.30	\$7,780.10	635.00

◇ Diverter Valves have a lead time of 7 days minimum

Automatic Diverter Valve



- High efficiency, economical method of diverting flow of material or air.
- Constructed of heavy 3/16" thick and painted metal, with welded seams. 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.
- Available in black metal painted (standard) or stainless steel (optional).
- SS diverters have SS cylinder with steel rod. Solenoid has plastic housing. Bearing is iron.



Automatic

#-Denotes an item that is returnable. See page 59 for a full listing of returnable items.



SD Diverter Valves



- High efficiency, economical method of diverting flow of material or air.
- Constructed of heavy 14ga thick galvanized or stainless steel, with bolted seams. Supplied with heavy duty flange bearings, and rubber seal in door.
- 45° angle only.
- Other sizes available upon request.
- Available in galvanized (standard) or stainless steel (optional).
- Operated by compressed air cylinders, controlled by electrically connected solenoid. 120v control circuit and 75psi minimum air pressure. Optional 24v DC or AC control circuits available. (Auto Only)
- SS diverters have SS cylinder with steel rod. Solenoid has plastic housing. Bearing is iron.

SD MANUAL DIVERTER VALVE ◇

Ø	PART NO.	GALV PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3233-0300	\$938.40	\$1,114.40	10.00
4"	3233-0400	\$938.40	\$1,114.40	10.00
5"	3233-0500	\$938.40	\$1,114.40	10.00
6"	3233-0600	\$1,130.10	\$1,300.80	22.00
7"	3233-0700	\$1,130.10	\$1,300.80	22.00
8"	3233-0800	\$1,246.80	\$1,435.50	37.00
9"	3233-0900	\$1,246.80	\$1,435.50	37.00
10"	3233-1000	\$1,356.60	\$1,561.80	55.00
11"	3233-1100	\$1,356.60	\$1,561.80	55.00
12"	3233-1200	\$1,445.30	\$1,663.30	73.00
13"	3233-1300	\$1,445.30	\$1,663.30	73.00

SD AUTO DIVERTER VALVE ◇

Ø	PART NO.	GALV PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3234-0300	\$1,483.30	\$1,760.60	15.00
4"	3234-0400	\$1,483.30	\$1,760.60	15.00
5"	3234-0500	\$1,483.30	\$1,760.60	15.00
6"	3234-0600	\$1,799.50	\$2,071.30	27.00
7"	3234-0700	\$1,799.50	\$2,071.30	27.00
8"	3234-0800	\$1,907.10	\$2,195.60	42.00
9"	3234-0900	\$1,907.10	\$2,195.60	42.00
10"	3234-1000	\$2,114.50	\$2,433.90	60.00
11"	3234-1100	\$2,114.50	\$2,433.90	60.00
12"	3234-1200	\$2,249.10	\$2,589.20	78.00
13"	3234-1300	\$2,249.10	\$2,589.20	78.00

◇ Diverter Valves have a lead time of 7 days minimum



BLAST GATE MANUAL

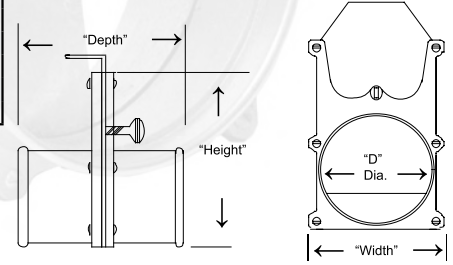
Ø	PART NO.	ENDS	GALV. WIDTH	GALV. HEIGHT	GALV. DEPTH	SS WIDTH	SS HEIGHT	SS DEPTH	GALV. PRICE	SS 304 PRICE ◊	WEIGHT (GALV)
3"	3240-0300	QF	4.25	7.00	5.25	5.00	6.00	5.25	\$42.80 #	\$166.20	1.50
4"	3240-0400	QF	5.25	7.00	5.50	6.00	7.50	5.25	\$42.80 #	\$166.20	2.25
5"	3240-0500	QF	6.12	6.25	5.75	7.00	10.50	5.00	\$44.60 #	\$195.00	3.00
6"	3240-0600	QF	7.00	10.00	5.75	8.00	11.00	5.00	\$58.60 #	\$259.60	3.75
7"	3240-0700	QF	8.00	11.12	5.38	9.00	12.00	5.00	\$72.50 #	\$277.40	4.50
8"	3240-0800	QF	9.37	12.00	5.50	10.00	13.50	5.00	\$85.80 #	\$281.60	5.50
9"	3240-0900	QF	11.00	13.25	5.50	11.00	15.00	5.00	\$120.70 #	\$362.80	7.00
10"	3240-1000	QF	11.37	14.37	5.50	12.00	17.00	5.00	\$150.90 #	\$391.60	7.50
11" ◊	3240-1100	QF	11.37	14.37	5.50	13.00	19.00	5.00	\$195.60 #	\$448.20	9.50
12"	3240-1200	QF	13.50	16.25	5.25	14.00	20.50	5.00	\$195.60 #	\$495.00	13.00
14"	3240-1400	QF	15.75	17.87	5.25	16.00	23.25	5.00	\$290.10 #	\$572.00	16.00
16" ◊	3240-1600	QF	18.00	28.50	11.25	CALL	CALL	CALL	\$422.20	\$957.00	21.20
18" ◊	3240-1800	QF	20.80	32.75	11.25	CALL	CALL	CALL	\$518.00	\$1,089.00	25.00
20" ◊	3240-2000	QF	22.25	34.00	11.25	CALL	CALL	CALL	\$641.20	\$1,531.20	30.00
22" ◊	3240-2200	QF	24.25	33.50	11.25	CALL	CALL	CALL	\$699.80	\$1,571.20	34.00
24" ◊	3240-2400	QF	26.25	33.50	11.25	CALL	CALL	CALL	\$827.20	\$1,616.40	38.00
26" ◊	3240-2600	FLANGE	29.25	47.50	CALL	CALL	CALL	CALL	\$1,403.60	CALL	62.00
28" ◊	3240-2800	FLANGE	30.25	47.50	CALL	CALL	CALL	CALL	\$1,624.50	CALL	72.00
30" ◊	3240-3000	FLANGE	33.25	55.75	CALL	CALL	CALL	CALL	\$1,993.70	CALL	97.00

◊ SS Blast Gates have a lead time of 7 days minimum

Blast Gate Manual



- Manually operated, cast aluminum body with standard QF connection unless otherwise specified.



BLAST GATE NFMES

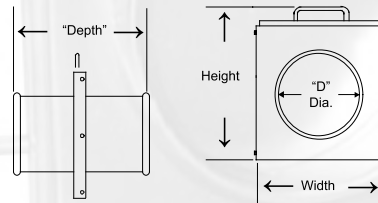
Ø	PART NO.	ENDS	GALV WIDTH	GALV HEIGHT	GALV DEPTH	GALV. PRICE	SS 304 PRICE ◊	WEIGHT (GALV)
3"	3241-0300	QF	5.25	7.00	5.375	\$300.00	\$504.60	N/A
4"	3241-0400	QF	6.12	6.25	5.375	\$300.00	\$504.60	2.70
5"	3241-0500	QF	7.00	10.00	5	\$317.00	\$533.50	3.30
6"	3241-0600	QF	8.00	11.12	5	\$325.70	\$548.00	5.90
7"	3241-0700	QF	9.37	12.00	5	\$349.70	\$588.20	6.00
8"	3241-0800	QF	11.00	13.25	5	\$361.60	\$608.40	6.75
9"	3241-0900	QF	11.37	14.37	5	\$384.00	\$645.90	7.50
10"	3241-1000	QF	13.50	16.25	5	\$428.60	\$720.90	9.12
12"	3241-1200	QF	15.75	17.87	5	\$444.00	\$746.80	13.00
14"	3241-1400	QF	18.00	28.50	5	\$456.00	\$767.00	18.25
16" ◊	3241-1600	QF	18.00	28.50	5	\$485.00	\$804.80	21.50

◊ SS Blast Gates have a lead time of 7 days minimum

Blast Gate NFMES



- Manually operated, energy saving blast gates. These compact and easy to operate gates are constructed of galvanized metal with a special sealing device that reduces air loss and friction in operation.
- Other sizes available upon request.



◊ SS Blast Gates have a lead time of 7 days minimum



BLAST GATE NFES AUTOMATIC

Ø	PART NO.	ENDS	(A) INCH	(B) INCH	(C) INCH	(D) INCH	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3245-0300	QF	16.00	6.38	5.50	5.50	\$994.10 #	\$1,672.40	9.83
4"	3245-0400	QF	16.00	6.30	5.50	5.11	\$994.10 #	\$1,672.40	9.90
5"	3245-0500	QF	17.50	7.50	5.25	6.00	\$999.20 #	\$1,681.10	11.90
6"	3245-0600	QF	20.50	8.66	5.25	7.00	\$1,004.50 #	\$1,689.70	15.15
7"	3245-0700	QF	22.00	9.44	5.25	7.25	\$1,009.60 #	\$1,698.30	18.85
8"	3245-0800	QF	25.50	10.25	5.25	8.25	\$1,103.80 #	\$1,856.90	27.50
9"	3245-0900	QF	33.00	17.36	9.00	14.17	\$1,386.60 #	\$2,332.80	37.50
10"	3245-1000	QF	33.00	17.36	9.00	14.17	\$1,412.40 #	\$2,376.00	37.50
12"	3245-1200	QF	38.50	20.00	9.00	15.50	\$1,494.50 #	\$2,514.40	44.00
14"	3245-1400	QF	41.00	23.30	12.00	16.00	\$1,583.80 #	\$2,664.30	50.00
16" ◊	3245-1600	QF	45.00	23.30	12.00	17.12	\$1,638.50 #	\$2,756.70	63.00
18" ◊	3245-1800	QF	48.50	25.25	12.00	18.00	\$1,838.30 #	\$3,092.00	74.00
20" ◊	3245-2000	QF	52.50	27.20	12.00	19.00	\$1,979.70 #	\$3,330.40	83.00
22" ◊	3245-2200	QF	57.50	29.50	12.00	20.27	\$2,142.60 #	\$3,604.30	104.00

◊ SS Blast Gates have a lead time of 7 days minimum

Blast Gate NFES Automatic



PART NO. 3245

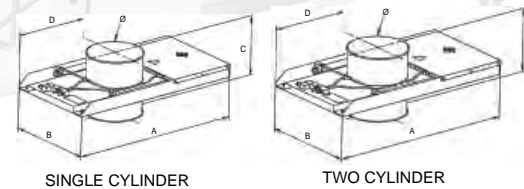
- Automatic energy saving blast gates operated by double-acting compressed air cylinders. Cylinders are controlled by electrically-connected solenoid to machines or remote switch. Gates are constructed of galvanized metal or SS (optional) and a special sealing device that reduces air loss and friction in operation. Available in sizes 4" dia. - 22" dia., 120V control circuit and 75psi minimum air pressure. Optional 24V DC or AC control circuit available.

- APPLICATION: Gates are used as energy saving devices for industrial dust extraction where extraction is not always needed and where manual control needs to be eliminated.

- Single cylinder: 3" to 8".

- Two cylinder 9" to 22".

- All auto blast gates have cylinders with metal body and steel rod. Solenoid has plastic housing.



SINGLE CYLINDER

TWO CYLINDER

SD AUTOMATIC BLAST GATE

Ø	PART NO.	ENDS	(A) INCH	(B) INCH	(C) INCH	(D) INCH	(E) INCH	GALV. PRICE	WEIGHT (GALV)
3"	3242-0300	QF	8.11	4.25	5.25	6.30	8.50	\$538.80	9.83
4"	3242-0400	QF	10.31	5.30	5.50	7.81	8.50	\$540.90	9.90
5"	3242-0500	QF	12.80	6.00	5.75	9.88	9.50	\$554.10	11.90
6"	3242-0600	QF	14.47	7.12	5.75	11.28	11.50	\$572.50	15.15
7"	3242-0700	QF	16.25	8.00	5.38	12.44	11.50	\$597.90	18.85
8"	3242-0800	QF	18.75	9.30	5.50	14.38	13.50	\$659.10	27.50
9"	3242-0900	QF	20.63	10.63	5.50	15.88	13.50	\$717.00	37.50
10"	3242-1000	QF	22.63	11.65	5.50	17.25	13.50	\$734.80	37.50
12"	3242-1200	QF	30.00	16.00	5.25	23.25	N/A	\$770.60	44.00
14"	3242-1400	QF	33.04	18.38	5.25	25.29	N/A	\$1,111.10	50.00
16" ◊	3242-1600	QF	38.52	20.38	11.25	29.65	N/A	\$1,138.40	63.00
18" ◊	3242-1800	QF	46.69	22.38	11.25	37.04	N/A	\$1,377.10	74.00
20" ◊	3242-2000	QF	48.69	24.38	11.25	38.04	N/A	\$1,530.00	83.00
22" ◊	3242-2200	QF	50.69	26.38	11.25	39.04	N/A	\$1,700.00	104.00
24" ◊	3242-2400	QF	55.50	31.28	11.25	42.40	N/A	\$1,743.70	125.00

◊ Items may take longer than standard lead times.

SD Auto Blast Gate



PART NO. 3242

- Operated by compressed air cylinders, controlled by electrically connected solenoid.

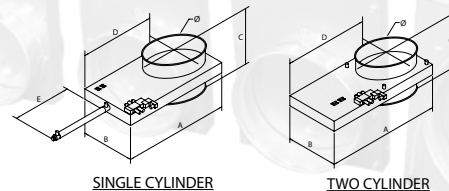
- 120v Control Circuit and 75psi minimum air pressure.

- Optional 24v DC or AC control circuits available

- Single cylinder: 3" to 10".

- Two cylinder 12"-24".

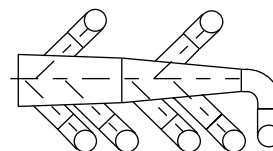
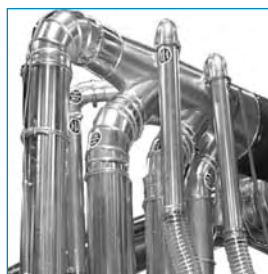
- Not available in SS.



SINGLE CYLINDER

TWO CYLINDER

Custom Manifold



**CUSTOM MANIFOLDS ARE AVAILABLE.
CONTACT OUR SALES OFFICE FOR
YOUR PARTICULAR NEEDS.**



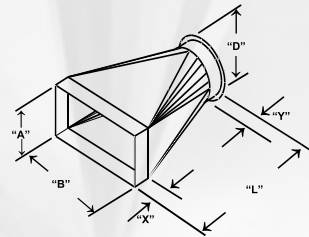
TRANSITION RECTANGULAR TO ROUND*

Ø	SQ TO SQ SIZE	PART NO.	ENDS	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	7"	3225-03XX	QF	\$90.80	\$187.50	1.65
4"	13"	3225-04XX	QF	\$90.80	\$187.50	2.85
5"	20"	3225-05XX	QF	\$94.20	\$195.00	4.05
6"	28"	3225-06XX	QF	\$97.60	\$206.90	5.55
7"	38"	3225-07XX	QF	\$103.80	\$217.00	7.35
8"	50"	3225-08XX	QF	\$108.50	\$229.90	9.45
9"	64"	3225-09XX	QF	\$112.30	\$232.10	11.60
10"	79"	3225-10XX	QF	\$116.30	\$246.30	14.00
11"	95"	3225-11XX	QF	\$118.40	\$250.70	17.10
12"	113"	3225-12XX	QF	\$118.40	\$250.70	21.00
13"	133"	3225-13XX	QF	\$122.80	\$260.70	25.00
14"	154"	3225-14XX	QF	\$122.80	\$260.70	29.80
15"	177"	3225-15XX	QF	\$128.80	\$268.30	36.95
16"	201"	3225-16XX	QF	\$128.80	\$268.30	45.00
17"	227"	3225-17XX	QF	\$132.70	\$283.60	53.05
18"	255"	3225-18XX	QF	\$132.70	\$283.60	61.10
20"	314"	3225-20XX	QF	\$137.30	\$290.20	70.90
22"	380"	3225-22XX	QF	\$164.20	\$344.90	82.00
24"	452"	3225-24XX	QF	\$189.00	\$396.70	94.40
26"	531"	3225-26XX	FLANGE	\$295.50	\$618.60	112.40
28"	616"	3225-28XX	FLANGE	\$393.30	\$806.00	132.00
30"	707"	3225-30XX	FLANGE	\$497.80	\$974.50	154.40
32"	804"	3225-32XX	FLANGE	\$648.10	\$1,089.40	176.20
34"	908"	3225-34XX	FLANGE	\$809.00	\$1,111.30	200.60
36"	1018"	3225-36XX	FLANGE	\$1,011.10	\$1,220.90	224.50
38"	1134"	3225-38XX	FLANGE	\$1,227.20	\$1,313.90	248.20
40"	1257"	3225-40XX	FLANGE	\$1,538.30	\$1,434.30	272.40

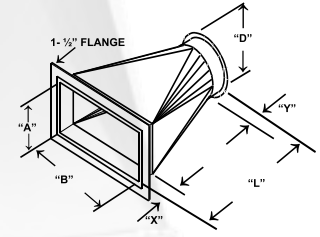
Transition Rectangular to Round



- Priced by largest area of opening, Round end (D) or Square area for rectangular end (A x B = SQ area).
- Pricing for Style 1 only.



STYLE #1
(Prices shown)



STYLE #2
(Add cost of flange)

By default, X=2, Y=2, and B=L

See page 49 for transition ordering instructions and notes

*Angle Flange cost not included in price. Flange pricing on pg. 34. Use Round equivalent.

*NOTE: Square to Square Transition available



ROUTER HOOD

Ø	PART NO.	ENDS	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3231-0300	QF	\$148.80	\$405.00	2.40
4"	3231-0400	QF	\$148.80 #	\$405.00	2.85
5"	3231-0500	QF	\$152.90 #	\$416.30	3.00
6"	3231-0600	QF	\$157.90 #	\$430.00	3.20
7"	3231-0700	QF	\$162.70	\$443.10	3.50
8"	3231-0800	QF	\$167.20	\$455.30	4.00
9"	3231-0900	QF	\$174.00	\$473.60	6.20
10"	3231-1000	QF	\$185.50	\$505.10	8.50

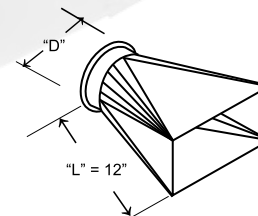
Router Hood



- Standard opening 6" x 12"
- Hood with magnet ships with a cap on the magnet to keep it from sticking to other products in the shipment. The cap is silver and the magnet is red
- Magnet itself is not available in SS

ROUTER HOOD WITH MAGNET

Ø	PART NO.	ENDS	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3232-0300	QF	\$186.80	\$508.60	3.40
4"	3232-0400	QF	\$186.80	\$508.60	4.60
5"	3232-0500	QF	\$191.20	\$520.70	5.50
6"	3232-0600	QF	\$197.20	\$537.00	6.40
7"	3232-0700	QF	\$200.90	\$546.80	7.25
8"	3232-0800	QF	\$204.30	\$556.30	8.50
9"	3232-0900	QF	\$211.50	\$575.60	12.40
10"	3232-1000	QF	\$223.60	\$609.00	17.00





RUBBER HOSE ◇

Ø	PART NO.	BLACK	CLEAR	WEIGHT
1"	3280-0100	\$4.10	N/A	0.14
1.5"	3280-1500	\$4.10	N/A	0.17
2"	3280-0200	\$4.40	\$5.20	0.24
2.5"	3280-2500	\$5.50	\$6.40	0.27
3"	3280-0300	\$6.60	\$7.70	0.34
3.5"	3280-3500	\$6.80	N/A	0.39
4"	3280-0400	\$6.80	\$8.80	0.50
5"	3280-0500	\$8.70	\$10.20	0.64
5.5"	3280-5500	\$9.90	\$10.60	0.71
6"	3280-0600	\$11.10	\$13.10	0.91
7"	3280-0700	\$12.80	\$14.70	1.00
8"	3280-0800	\$14.20	\$16.90	1.04
9"	3280-0900	\$21.30	\$23.30	1.20
10"	3280-1000	\$22.00	\$25.30	1.60
12"	3280-1200	\$22.70	\$25.70	2.00
14"	3280-1400	\$34.10	\$38.00	2.40
16"	3280-1600	\$39.20	\$43.90	2.80
18"	3280-1800	\$44.50	\$49.60	3.60
20"	3280-2000	\$47.50	N/A	4.00
22"	3280-2200	\$54.80	N/A	5.00
24"	3280-2400	\$63.00	N/A	6.00

◇ Items may take longer than standard lead times.

Rubber Hose



- Flexible rubber hose with steel coil.
- Order hose clamps separate.
- "Clear" "FDA" hose is also available upon request.
- Sold by the foot in 5' increments.
- Use #3282 Hose Adapter with this hose.

RIGID FLEX STEEL HOSE ◇

Ø	PART NO.	GALV. PRICE	SS 304 PRICE ◇	WEIGHT
1.5"	3281-1500	\$4.90	N/A	1.00
2"	3281-0200	\$6.10	\$16.40	1.30
2.5"	3281-2500	\$6.40	N/A	1.60
3"	3281-0300	\$9.30	\$24.20	2.00
3.5"	3281-3500	\$10.20	N/A	2.30
4"	3281-0400	\$11.70	\$31.90	2.60
5"	3281-0500	\$14.40	\$39.80	3.00
6"	3281-0600	\$17.70	\$40.80	3.60
7"	3281-0700	\$20.10	\$46.10	4.00
8"	3281-0800	\$23.10	\$52.30	4.60
9"	3281-0900	\$25.80	\$61.20	5.30
10"	3281-1000	\$27.90	\$62.50	5.90
12"	3281-1200	\$33.70	\$72.70	7.00
14"	3281-1400	\$38.90	\$85.60	8.10

◇ Items may take longer than standard lead times.

Rigid Flex Steel Hose



- Flexible rigid steel hose for higher temperature or abrasive material.
- Available in Galvanized or Stainless Steel.
- 1.5" - 7" is sold by the foot in 5' sections only.
- 8" - 14" is sold by the foot in 5' or 10' sections only.
- Comes with raw ends standard

* Use #3249 Machine Adapter with these hoses (3281 & 3283).

* Do NOT use #3285 SS Hose Clamps with these hoses (3281 & 3283).

Alternate ends are available for these hoses upon request at additional cost.

Per each end, \$10 plus the cost of a machine adapter. (Flanges are extra see pg. 48)

ULTRA FLEX STEEL HOSE ◇

Ø	PART NO.	GALV. PRICE	SS 304 PRICE ◇	WEIGHT (GALV)
3"	3283-0300	\$17.60	\$40.70	2.15
4"	3283-0400	\$17.60	\$40.70	2.65
5"	3283-0500	\$21.80	\$50.40	3.05
6"	3283-0600	\$26.70	\$61.60	3.55
7"	3283-0700	\$31.50	\$72.60	4.15
8"	3283-0800	\$35.60	\$80.50	4.55

◇ Items may take longer than standard lead times.

Ultra Flex Steel Hose



- Special flex-steel hose.
- Available in Galvanized or Stainless Steel.
- Sold by the foot in 5' increments.
- Comes with raw ends standard



HOSE CLAMP

Ø	PART NO.	SS 304 PRICE	WEIGHT (GALV)
2"	3285-0200	\$2.40 #	0.05
3"	3285-0300	\$2.40 #	0.06
4"	3285-0400	\$3.90 #	0.07
5"	3285-0500	\$3.90 #	0.08
6"	3285-0600	\$4.90 #	0.09
7"	3285-0700	\$5.70 #	0.10
8"	3285-0800	\$7.20 #	0.14
9"	3285-0900	\$7.80 #	0.15
10"	3285-1000	\$8.20 #	0.17
12"	3285-1200	\$11.80 #	0.20
14"	3285-1400	\$12.60	0.25
16"	3285-1600	\$14.30	0.30
18"	3285-1800	\$15.10	0.40
20"	3285-2000	\$16.20	0.45
22"	3285-2200	\$17.70	0.50
24"	3285-2400	\$19.30	0.60

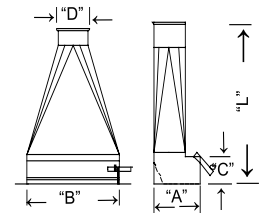


FLOOR SWEEP

Ø	PART NO.	ENDS	A INCH	B INCH	C INCH	L INCH	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3248-0300	QF	6"	12"	3.5"	18"	\$178.10	\$340.50	5.80
4"	3248-0400	QF	6"	12"	3.5"	18"	\$178.10 #	\$340.50	6.90
5"	3248-0500	QF	6"	12"	3.5"	18"	\$187.20 #	\$358.90	7.30
6"	3248-0600	QF	6"	12"	3.5"	18"	\$195.90 #	\$374.70	7.55
7"	3248-0700	QF	6"	12"	3.5"	18"	\$213.50	\$423.10	7.75
8"	3248-0800	QF	6"	12"	3.5"	18"	\$224.10	\$442.90	8.25
9"	3248-0900	QF	6"	12"	3.5"	18"	\$232.90	\$461.60	9.50
10"	3248-1000	QF	6"	12"	3.5"	18"	\$241.80	\$475.00	11.75
11"	3248-1100	QF	6"	12"	3.5"	18"	\$250.60	\$522.50	13.20
12"	3248-1200	QF	6"	12"	3.5"	18"	\$250.60	\$522.50	15.70



- Quick and effective floor cleaning.
- Galvanized or SS (optional) sheet metal with sturdy closing door.
- Body 22 gauge, Door 14 gauge.

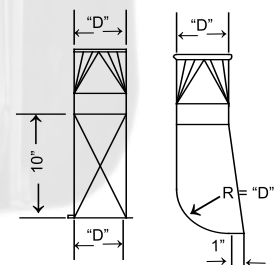


RADIAL ARMSAW HOOD

Ø	PART NO.	ENDS	GALV. PRICE	SS PRICE	WEIGHT (GALV)
4"	3229-0400	QF	\$176.00 #	Call	3.50
5"	3229-0500	QF	\$214.70 #	Call	3.90
6"	3229-0600	QF	\$295.00 #	Call	4.20



- Used to collect dust from "Radial Arm Saws".
- Body 18 gauge.
- Transition 22 gauge.
- Available in SS



#-Denotes an item that is returnable. See page 59 for a full listing of returnable items.



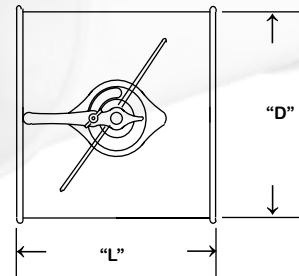
BUTTERFLY VALVE

Ø	PART NO.	ENDS	LENGTH (L)	GAUGE	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3208-0300	QF	8"	22	\$52.10 #	\$115.30	1.50
4"	3208-0400	QF	8"	22	\$52.10 #	\$115.30	1.65
5"	3208-0500	QF	8"	22	\$52.50 #	\$116.00	2.00
6"	3208-0600	QF	8"	22	\$53.00 #	\$117.30	2.40
7"	3208-0700	QF	8"	22	\$56.20 #	\$124.00	3.20
8"	3208-0800	QF	13"	22	\$56.50 #	\$125.20	4.10
9"	3208-0900	QF	13"	22	\$57.40	\$127.30	4.85
10"	3208-1000	QF	13"	22	\$58.10	\$128.50	5.45
11"	3208-1100	QF	13"	20	\$61.20	\$135.30	7.00
12"	3208-1200	QF	13"	20	\$61.20	\$135.30	8.40
13"	3208-1300	QF	17"	20	\$69.90	\$154.40	9.75
14"	3208-1400	QF	17"	20	\$69.90	\$154.40	11.85
15"	3208-1500	QF	17"	20	\$74.90	\$165.60	12.70
16"	3208-1600	QF	17"	20	\$74.90	\$165.60	14.20
17"	3208-1700	QF	23"	20	\$81.20	\$179.80	16.10
18"	3208-1800	QF	23"	20	\$81.20	\$179.80	18.00
20"	3208-2000	QF	23"	20	\$91.30	\$202.10	27.75
22"	3208-2200	QF	23"	20	\$101.30	\$224.40	32.40
24"	3208-2400	QF	23"	20	\$116.50	\$258.10	37.90

Butterfly Valve



- A standard locking quadrant handle enables users to regulate air volumes in clean air applications.
- For use only in clean air applications.
- SS butterfly valves use zinc plated operator.



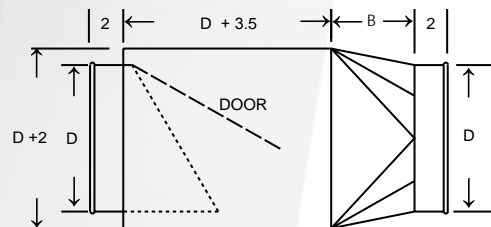
IN LINE BACK DRAFT DAMPER

Ø	PART NO.	ENDS	LENGTH (L)	LENGTH (B)	GAUGE	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3219-0300	QF	17.5"	7"	18	\$147.70	\$248.20	2.25
4"	3219-0400	QF	18.5"	7"	18	\$147.70	\$248.20	3.00
5"	3219-0500	QF	19.5"	7"	18	\$186.40	\$313.40	3.50
6"	3219-0600	QF	20.5"	7"	18	\$219.70	\$369.30	4.00
7"	3219-0700	QF	21.5"	7"	18	\$256.60	\$431.30	4.50
8"	3219-0800	QF	22.5"	7"	18	\$293.60	\$493.40	5.00
9"	3219-0900	QF	23.5"	7"	18	\$324.80	\$546.10	10.00
10"	3219-1000	QF	24.5"	7"	18	\$359.90	\$605.00	20.00
11"	3219-1100	QF	25.5"	7"	18	\$394.80	\$664.00	25.00
12"	3219-1200	QF	26.5"	7"	18	\$394.80	\$664.00	30.00
13"	3219-1300	QF	32.5"	12"	18	\$435.50	\$732.30	36.00
14"	3219-1400	QF	33.5"	12"	18	\$435.50	\$732.30	42.00
15"	3219-1500	QF	34.5"	12"	18	\$476.10	\$800.50	49.00
16"	3219-1600	QF	43.5"	20"	18	\$476.10	\$800.50	59.00
17"	3219-1700	QF	44.5"	20"	18	\$524.20	\$881.10	63.00
18"	3219-1800	QF	45.5"	20"	18	\$524.20	\$881.10	72.00
20"	3219-2000	QF	47.5"	20"	16	\$598.00	\$1,005.40	78.00
22"	3219-2200	QF	49.5"	20"	16	\$739.90	\$1,244.30	85.00
24"	3219-2400	QF	51.5"	20"	16	\$832.30	\$1,399.40	90.00
26"	3219-2600	FLANGE	57.5"	24"	16	\$893.20	\$1,501.70	100.00
28"	3219-2800	FLANGE	59.5"	24"	16	\$930.10	\$1,563.80	110.00
30"	3219-3000	FLANGE	61.5"	24"	16	\$1,035.20	\$1,740.80	115.00
32"	3219-3200	FLANGE	63.5"	24"	16	\$1,103.60	\$1,855.60	120.00
34"	3219-3400	FLANGE	65.5"	24"	16	\$1,177.40	\$1,979.70	130.00

In Line Back Draft Damper



- Used to reduce backward air flow in the line.
- Designed for use in a horizontal line. Call factory if vertical operation is required.





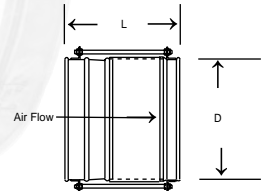
VIEWING SPOOL

Ø	PART NO.	ENDS	LENGTH (L)	GAUGE	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3205-0300	QF	12.5	22	\$243.80	\$304.80	2.50
4"	3205-0400	QF	12.5	22	\$243.80	\$304.80	3.00
5"	3205-0500	QF	12.5	22	\$249.70	\$312.10	3.50
6"	3205-0600	QF	12.5	22	\$253.80	\$317.20	4.10
7"	3205-0700	QF	12.5	22	\$270.00	\$337.50	4.60
8"	3205-0800	QF	12.5	22	\$283.20	\$354.00	5.00
9"	3205-0900	QF	12.5	22	\$311.00	\$388.80	5.45
10"	3205-1000	QF	12.5	22	\$331.40	\$414.30	6.25
11"	3205-1100	QF	12.5	22	\$363.40	\$454.20	7.10
12"	3205-1200	QF	12.5	22	\$363.40	\$454.20	8.20
14"	3205-1400	QF	12.5	20	\$396.90	\$496.10	11.25
15"	3205-1500	QF	12.5	20	\$417.30	\$521.60	14.10
16"	3205-1600	QF	12.5	20	\$417.30	\$521.60	18.25
18"	3205-1800	QF	12.5	20	\$522.20	\$567.70	22.60

Viewing Spool



- A section of acrylic glass with QF ends to view material flow.



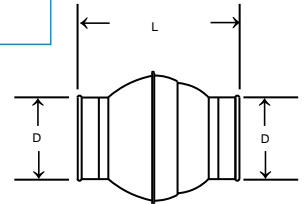
BALL JOINT

Ø	PART NO.	ENDS	LENGTH (L)	GAUGE	GALV. PRICE	WEIGHT (GALV)
3"	3209-0300	QF	8.00	20	\$161.00	1.50
4"	3209-0400	QF	9.50	20	\$161.00	2.10
5"	3209-0500	QF	10.75	20	\$194.90	2.75
6"	3209-0600	QF	11.75	20	\$203.40	3.85
7"	3209-0700	QF	10.75	20	\$211.80	4.25
8"	3209-0800	QF	14.00	18	\$271.10	5.00
9"	3209-0900	QF	15.00	18	\$322.00	7.45
10"	3209-1000	QF	14.25	18	\$355.90	8.95
12"	3209-1200	QF	15.25	16	\$398.30	9.25
14"	3209-1400	QF	17.50	14	\$694.80	15.70

Ball Joint



- Allows up to 22° of movement off-center.
- Not available in SS.



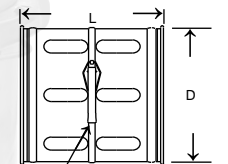
BLEED IN VALVE

Ø	PART NO.	ENDS	LENGTH (L)	NO. OF SLOTS	GAUGE	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3207-0300	QF	11"	2	24	\$52.80	\$88.80	3.75
4"	3207-0400	QF	11"	2	22	\$52.80	\$88.80	4.00
5"	3207-0500	QF	11"	3	22	\$60.70	\$102.20	4.25
6"	3207-0600	QF	11"	3	22	\$63.20	\$106.50	4.50
7"	3207-0700	QF	11"	4	22	\$68.10	\$114.60	4.75
8"	3207-0800	QF	11"	4	22	\$70.30	\$118.30	5.00
9"	3207-0900	QF	11"	5	22	\$77.40	\$130.10	5.25
10"	3207-1000	QF	11"	5	22	\$82.20	\$138.40	5.50
11"	3207-1100	QF	11"	5	22	\$86.00	\$145.00	5.75
12"	3207-1200	QF	11"	6	22	\$86.00	\$145.00	6.25
13"	3207-1300	QF	11"	6	20	\$94.80	\$159.70	6.75
14"	3207-1400	QF	11"	7	20	\$94.80	\$159.70	7.50
15"	3207-1500	QF	11"	7	20	\$103.80	\$174.60	8.25
16"	3207-1600	QF	11"	8	20	\$103.80	\$174.60	10.00
17"	3207-1700	QF	11"	8	20	\$116.00	\$195.20	11.75
18"	3207-1800	QF	11"	9	20	\$116.00	\$195.20	13.50
20"	3207-2000	QF	11"	10	20	\$134.20	\$226.20	15.00
22"	3207-2200	QF	11"	11	20	\$149.20	\$251.50	18.00
24"	3207-2400	QF	11"	11	20	\$171.60	\$289.20	22.00

Bleed in Valve



- Used to adjust airflow to balance system by introducing ambient air.

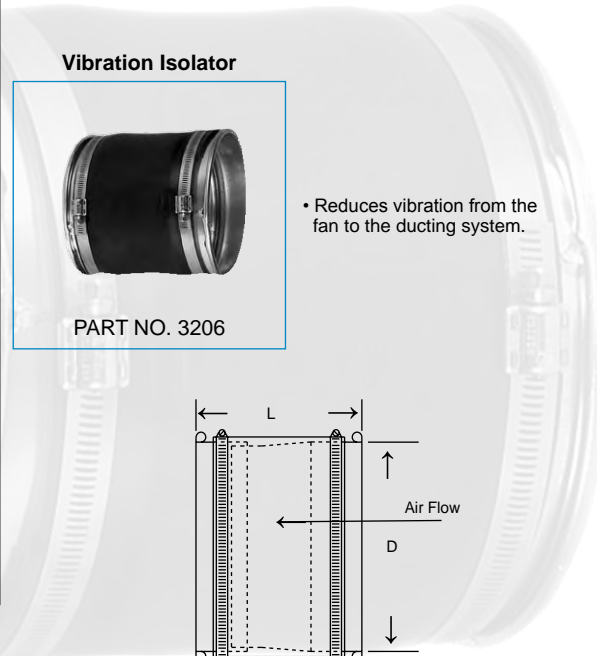


To Adjust, Loosen Clamp and Turn Outer Sleeve To Get Proper Air-flow Re-Clamp When Finished



VIBRATION ISOLATOR ◇

Ø	PART NO.	ENDS	LENGTH (L)	GAUGE	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3206-0300	QF	6.5	24	\$70.10	\$117.90	1.50
4"	3206-0400	QF	6.5	22	\$70.10 #	\$117.90	2.00
5"	3206-0500	QF	6.5	22	\$76.20 #	\$128.00	2.30
6"	3206-0600	QF	6.5	22	\$84.00 #	\$141.30	2.90
7"	3206-0700	QF	6.5	22	\$93.90 #	\$158.00	3.45
8"	3206-0800	QF	6.5	22	\$105.40#	\$177.50	3.80
9"	3206-0900	QF	6.5	22	\$110.70	\$186.30	4.20
10"	3206-1000	QF	6.5	22	\$116.10	\$195.40	4.80
11"	3206-1100	QF	6.5	22	\$175.20	\$294.70	5.10
12"	3206-1200	QF	6.5	22	\$175.20	\$294.70	5.60
13"	3206-1300	QF	6.5	20	\$200.80	\$337.50	6.00
14"	3206-1400	QF	6.5	20	\$200.80	\$337.50	7.60
15"	3206-1500	QF	6.5	20	\$244.80	\$411.80	7.10
16"	3206-1600	QF	6.5	20	\$244.80	\$411.80	8.60
17"	3206-1700	QF	6.5	20	\$264.50	\$445.10	9.35
18"	3206-1800	QF	6.5	20	\$264.50	\$445.10	10.15
20"	3206-2000	QF	6.5	20	\$284.20	\$478.10	12.40
22"	3206-2200	QF	6.5	20	\$309.20	\$520.20	14.90
24"	3206-2400	QF	7	20	\$355.60	\$598.20	17.60
26"	3206-2600	FLANGE	10	18	\$364.60	\$1,195.00	49.28
28"	3206-2800	FLANGE	10	18	\$391.50	\$1,258.60	59.00
30"	3206-3000	FLANGE	10	18	\$414.50	\$1,314.90	63.43
32"	3206-3200	FLANGE	10	18	\$439.80	\$1,377.60	71.90
34"	3206-3400	FLANGE	10	18	\$466.10	\$1,439.30	79.40
36"	3206-3600	FLANGE	10	18	\$494.10	\$1,507.50	88.50
38"	3206-3800	FLANGE	10	18	\$524.00	\$1,660.00	76.20
40"	3206-4000	FLANGE	10	18	\$555.50	\$1,789.70	110.40

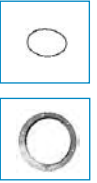


◇ Items may take longer than standard lead times.

NO-LOSS STACKHEAD

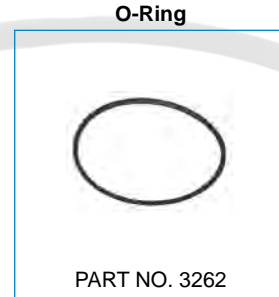
Ø	PART NO.	ENDS	GAUGE	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3204-0300	QF	24	\$75.70	\$167.60	4.00
4"	3204-0400	QF	22	\$75.70	\$167.60	6.50
5"	3204-0500	QF	22	\$78.70	\$173.60	8.00
6"	3204-0600	QF	22	\$83.90	\$186.00	10.00
7"	3204-0700	QF	22	\$95.90	\$212.10	14.00
8"	3204-0800	QF	22	\$116.90	\$258.50	23.08
9"	3204-0900	QF	22	\$129.70	\$269.10	32.00
10"	3204-1000	QF	22	\$143.80	\$318.20	36.00
11"	3204-1100	QF	22	\$168.90	\$373.80	39.00
12"	3204-1200	QF	22	\$168.90	\$373.80	42.00
13"	3204-1300	QF	20	\$200.80	\$444.50	45.00
14"	3204-1400	QF	20	\$200.80	\$444.50	50.00
15"	3204-1500	QF	20	\$235.50	\$521.40	56.00
16"	3204-1600	QF	20	\$235.50	\$521.40	60.00
17"	3204-1700	QF	20	\$319.50	\$707.30	64.00
18"	3204-1800	QF	20	\$319.50	\$707.30	69.75
20"	3204-2000	QF	20	\$401.70	\$888.80	79.16
22"	3204-2200	QF	20	\$447.30	\$990.20	84.00
24"	3204-2400	QF	20	\$514.40	\$1,138.70	98.56
26"	3204-2600	FLANGE	20	\$617.60	\$1,180.30	118.00
28"	3204-2800	FLANGE	20	\$696.00	\$1,190.60	132.05
30"	3204-3000	FLANGE	18	\$756.10	\$1,265.40	143.90
32"	3204-3200	FLANGE	18	\$853.80	\$1,335.70	152.83
34"	3204-3400	FLANGE	18	\$873.70	\$1,497.90	160.76
36"	3204-3600	FLANGE	18	\$892.50	\$1,572.90	170.81
38"	3204-3800	FLANGE	18	\$1,025.10	\$1,722.70	179.81
40"	3204-4000	FLANGE	18	\$1,098.10	\$1,846.10	193.25



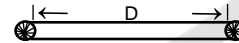


O-RING

Ø	PART NO.	BLACK BUNA-N PRICE	RED SILICONE PRICE	WEIGHT
3"	3262-0300	\$2.10 #	\$4.30 #	0.01
4"	3262-0400	\$2.10 #	\$4.30 #	0.02
5"	3262-0500	\$2.10 #	\$4.30 #	0.03
6"	3262-0600	\$2.10 #	\$4.30 #	0.04
7"	3262-0700	\$3.30 #	\$7.00 #	0.08
8"	3262-0800	\$3.30 #	\$7.00 #	0.09
9"	3262-0900	\$3.30 #	\$7.00 #	0.10
10"	3262-1000	\$3.30 #	\$7.00 #	0.11
11"	3262-1100	\$3.30 #	\$7.00 #	0.17
12"	3262-1200	\$3.30 #	\$7.00 #	0.22
13"	3262-1300	\$5.40 #	\$11.50 #	0.23
14"	3262-1400	\$5.40 #	\$11.50 #	0.25
15"	3262-1500	\$5.40 #	\$11.50 #	0.26
16"	3262-1600	\$5.40 #	\$11.50 #	0.27
17"	3262-1700	\$5.40 #	\$11.50 #	0.28
18"	3262-1800	\$5.40 #	\$11.50 #	0.29
20"	3262-2000	\$5.40 #	\$11.50 #	0.31
22"	3262-2200	\$5.40 #	\$11.50 #	0.36
24"	3262-2400	\$5.40 #	\$11.50 #	0.40



- Replacement O-ring for use with Adj. Nipples.
- Specify Black for standard
- Specify Red for high temp

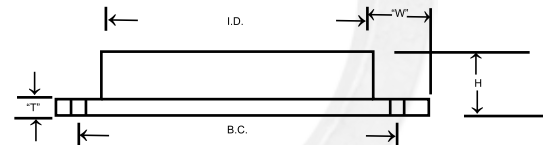


ANGLE FLANGE

Ø	PART NO.	I.D.	H	W	T	B.C.	NO. OF BOLTS	Ø OF BOLT HOLES	GALV. PRICE	SS 304 PRICE	WEIGHT
3"	3261-0300	3 1/16"	15/16"	15/16"	1/8"	4 5/16"	6	9/32	\$8.60	\$39.50	0.65
4"	3261-0400	4 1/16"	15/16"	1"	1/8"	5 5/16"	6	9/32	\$8.60	\$39.50	0.85
5"	3261-0500	5 1/16"	1 1/16"	1"	1/8"	6 5/16"	6	9/32	\$9.40	\$42.00	1.05
6"	3261-0600	6 3/32"	1"	1"	1/8"	7 5/16"	6	9/32	\$11.80	\$44.10	1.40
7"	3261-0700	7 1/8"	1"	1 1/8"	1/8"	8 1/2"	6	3/8	\$12.60	\$47.30	1.80
8"	3261-0800	8 1/8"	1 1/8"	1 1/8"	1/8"	9 9/16"	6	3/8	\$15.60	\$48.80	2.00
9"	3261-0900	9 1/8"	1 1/4"	1 1/4"	1/8"	10 5/8"	6	7/16	\$17.40	\$48.90	2.25
10"	3261-1000	10 1/8"	1 1/4"	1 3/8"	1/8"	11 13/16"	6	7/16	\$20.70	\$50.20	3.10
11"	3261-1100	11 1/8"	1 1/4"	1 1/2"	1/8"	12 3/4"	6	7/16	\$27.10	\$52.70	3.30
12"	3261-1200	12 1/8"	1 1/2"	1 1/2"	1/8"	14	8	7/16	\$27.10	\$52.70	3.90
13"	3261-1300	13 1/8"	1 1/2"	1 1/2"	1/8"	15	8	7/16	\$33.60	\$55.50	4.00
14"	3261-1400	14 1/8"	1 1/2"	1 1/2"	1/8"	16	8	7/16	\$33.60	\$55.50	4.80
15"	3261-1500	15 1/8"	1 1/2"	1 1/2"	3/16"	17	8	7/16	\$45.80	\$66.90	7.15
16"	3261-1600	16 1/8"	1 1/2"	1 1/2"	3/16"	18	8	7/16	\$45.80	\$66.90	8.05
17"	3261-1700	17 1/8"	1 1/2"	1 1/2"	3/16"	19	8	7/16	\$48.40	\$88.00	8.00
18"	3261-1800	18 1/8"	1 1/2"	1 1/2"	3/16"	20	8	7/16	\$48.40	\$88.00	8.00
19"	3261-1900	19 1/8"	1 1/2"	1 1/2"	3/16"	20 3/4	12	7/16	\$50.90	\$95.40	8.70
20"	3261-2000	20 1/8"	1 1/2"	1 1/2"	3/16"	21 3/4	12	7/16	\$50.90	\$95.40	9.80
21"	3261-2100	21 1/8"	1 1/2"	1 1/2"	3/16"	22 3/4	12	7/16	\$56.60	\$105.20	10.40
22"	3261-2200	22 1/8"	1 1/2"	1 1/2"	3/16"	23 3/4	12	7/16	\$56.60	\$105.20	11.10
23"	3261-2300	23 1/8"	1 1/2"	1 1/2"	3/16"	24 7/8	12	7/16	\$60.80	\$123.20	11.75
24"	3261-2400	24 1/8"	1 1/2"	1 1/2"	3/16"	25 7/8	12	7/16	\$60.80	\$123.20	12.40
25"	3261-2500	25 1/8"	1 1/2"	1 1/2"	3/16"	26 7/8	16	7/16	\$84.60	\$165.10	15.20
26"	3261-2600	26 1/8"	2"	2"	3/16"	28 3/8	16	7/16	\$84.60	\$165.10	18.00
27"	3261-2700	27 1/8"	2"	2"	3/16"	29 3/8	16	7/16	\$93.20	\$167.70	19.00
28"	3261-2800	28 1/8"	2"	2"	3/16"	30 3/8	16	7/16	\$93.20	\$167.70	20.00
29"	3261-2900	29 1/8"	2"	2"	3/16"	31 3/8	16	7/16	\$102.00	\$170.60	21.00
30"	3261-3000	30 1/8"	2"	2"	3/16"	32 3/8	16	7/16	\$102.00	\$170.60	22.00
31"	3261-3100	31 1/8"	2"	2"	3/16"	33 3/8	16	7/16	\$107.10	\$174.10	22.00
32"	3261-3200	32 1/8"	2"	2"	3/16"	34 3/8	16	7/16	\$107.10	\$174.10	22.00
33"	3261-3300	33 1/8"	2"	2"	3/16"	35 3/8	16	7/16	\$115.70	\$176.30	23.00
34"	3261-3400	34 1/8"	2"	2"	3/16"	36 3/8	16	7/16	\$115.70	\$176.30	24.00
35"	3261-3500	35 1/8"	2"	2"	3/16"	37 3/8	16	7/16	\$119.20	\$179.60	24.00
36"	3261-3600	36 1/8"	2"	2"	3/16"	38 3/8	16	7/16	\$119.20	\$179.60	24.00
37"	3261-3700	37 1/8"	2"	2"	3/16"	39 3/8	24	7/16	\$121.00	\$214.80	25.00
38"	3261-3800	38 1/8"	2"	2"	3/16"	40 3/8	24	7/16	\$121.00	\$214.80	26.00
39"	3261-3900	39 1/8"	2"	2"	3/16"	41 3/8	24	7/16	\$129.60	\$239.50	27.00
40"	3261-4000	40 1/8"	2"	2"	3/16"	42 3/8	24	7/16	\$129.60	\$239.50	28.00



- Galvanized or stainless steel. (Specify if Stainless Steel.)



NOTE: Other drill patterns available in flat flanges. Call for pricing.

#-Denotes an item that is returnable. See page 59 for a full listing of returnable items.



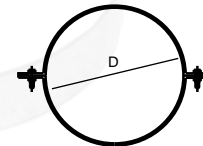
PIPE HANGER

Ø	PART NO.	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3265-0300	\$6.90 #	\$14.50	0.40
4"	3265-0400	\$6.90 #	\$14.50	0.45
5"	3265-0500	\$7.70 #	\$15.70	0.50
6"	3265-0600	\$8.80 #	\$17.70	0.60
7"	3265-0700	\$8.80 #	\$19.70	0.65
8"	3265-0800	\$10.50 #	\$22.90	0.75
9"	3265-0900	\$13.00 #	\$28.10	0.85
10"	3265-1000	\$13.70 #	\$30.10	0.95
11"	3265-1100	\$15.20 #	\$33.40	1.00
12"	3265-1200	\$15.20 #	\$33.40	1.10
13"	3265-1300	\$17.40 #	\$37.60	1.20
14"	3265-1400	\$17.40 #	\$37.60	1.15
15"	3265-1500	\$22.50 #	\$46.90	1.30
16"	3265-1600	\$22.50 #	\$46.90	1.35
17"	3265-1700	\$23.90 #	\$48.00	1.40
18"	3265-1800	\$23.90 #	\$48.00	1.50
20"	3265-2000	\$26.20 #	\$52.10	1.80
22"	3265-2200	\$32.30 #	\$63.50	6.00
24"	3265-2400	\$37.00 #	\$73.00	6.00
26"	3265-2600	\$41.90 #	\$80.20	6.00
28"	3265-2800	\$45.60 #	\$84.30	6.00
30"	3265-3000	\$47.50 #	\$95.90	7.50
32"	3265-3200	\$58.70 #	\$118.70	8.00
34"	3265-3400	\$64.40 #	\$131.30	8.00
36"	3265-3600	\$72.10 #	\$144.80	8.80
38"	3265-3800	\$79.60 #	\$159.40	10.00
40"	3265-4000	\$87.30 #	\$175.10	10.00

Pipe Hanger



- 3"-24" made from galvanized steel 14 GA, SS is 16 GA.
- Over 24 inches made from 3/16" flat bar steel.
- Clearance hole 5/16".
- Bolts are supplied with hanger.



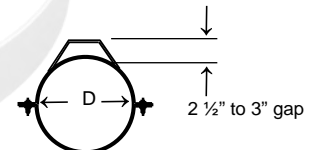
PIPE HANGER HJ

Ø	PART NO.	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3265-0300-1HJ	\$13.80	\$29.20	0.45
4"	3265-0400-1HJ	\$13.80	\$29.20	0.55
5"	3265-0500-1HJ	\$15.40	\$32.50	0.65
6"	3265-0600-1HJ	\$17.50	\$37.00	0.75
7"	3265-0700-1HJ	\$17.50	\$37.00	0.85
8"	3265-0800-1HJ	\$20.90	\$44.20	0.95
9"	3265-0900-1HJ	\$25.80	\$54.60	1.05
10"	3265-1000-1HJ	\$27.40	\$57.80	1.15
11"	3265-1100-1HJ	\$30.50	\$64.30	1.30
12"	3265-1200-1HJ	\$30.50	\$64.30	1.45
13"	3265-1300-1HJ	\$34.70	\$73.40	1.60
14"	3265-1400-1HJ	\$34.70	\$73.40	1.75
15"	3265-1500-1HJ	\$45.00	\$94.80	1.90
16"	3265-1600-1HJ	\$45.00	\$94.80	2.20
17"	3265-1700-1HJ	\$47.70	\$100.70	2.50
18"	3265-1800-1HJ	\$47.70	\$100.70	2.85
20"	3265-2000-1HJ	\$52.40	\$110.40	3.40
22"	3265-2200-1HJ	\$64.40	\$135.80	4.10
24"	3265-2400-1HJ	\$74.10	\$156.30	5.00

Pipe Hanger HJ



- 3"-24" made from galvanized steel 14 GA, SS is 16 GA.
- Clearance hole 7/16".
- Bolts are supplied with hanger.



SUCTION HOOD

PART NO.	ENDS	NO. OF PICK-UPS	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3230-XX02	QF	2	\$197.50	\$408.50	6.50
3230-XX03	QF	3	\$224.60	\$468.80	9.00
3230-XX04	QF	4	\$248.10	\$518.30	13.40
3230-XX05	QF	5	\$304.60	\$632.80	22.80
3230-XX06	QF	6	\$417.30	\$869.40	47.60



• Specify round or rectangular



GRIPPLE HANGER

SIZE WEIGHT	PART NO.	PRICE	WEIGHT (GALV)
Up to 22lbs	3266-1500-022LBS	\$6.30 #	0.05
Up to 100lbs	3266-1500-100LBS	\$8.90 #	0.10
Up to 200lbs	3266-1500-200LBS	\$10.70 #	0.75
Up to 495lbs	3266-1500-495LBS	\$20.40 #	1.10
Up to 715lbs	3266-1500-715LBS	\$26.90 #	1.20



• Comes in length of 15 feet.
• Not available in SS.

PIPE BRACING

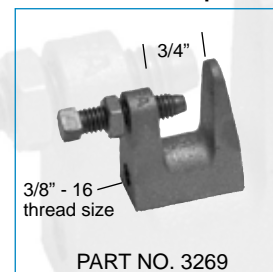
Ø	PART NO.	PRICE	WEIGHT
1/2"	3268-0100	\$7.90	2.00



• Galvanized.
• Supplied in standard length of 10 feet.
• Field cut to desired length - flatten ends - drill one end with 3/8" bit - connect this end to pipe hanger and clamp or bolt other end to suspension point.
• NOT Flattened or Drilled.

BEAM CLAMP

OPENING	PART NO.	GALV. PRICE	WEIGHT
3/4"	3269-0100	\$3.10 #	0.30



• Speed up connection of pipe bracing to building steel members.
• 3/8" - 16 thread size

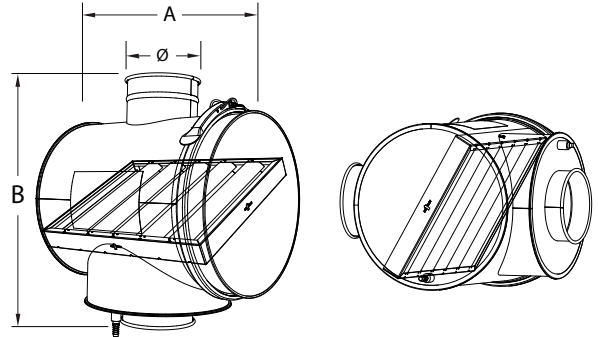


Mist Recycler



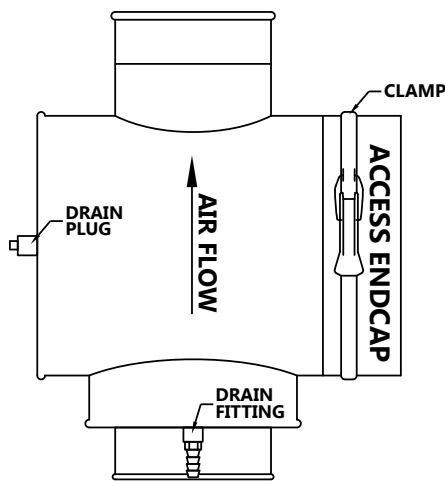
PART NO. 3192

- Installs in vertical or horizontal applications.
- Extracts oil to minimize amount of oil flowing through entire system.
- Consists of recycler unit, moulded gasket, clamp and end cap.



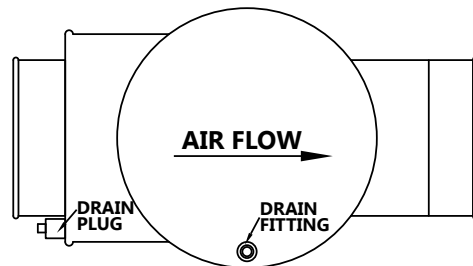
MIST RECYCLER

Ø	PART NO.	GAUGE	(A) INCH	(B) INCH	BAFFLE SIZE	GALV. PRICE	SS 304 PRICE	WEIGHT (GALV)
3"	3192-0300	22	14	18	10" x 14"	\$370.80	\$841.40	11.10
4"	3192-0400	22	14	18	10" x 14"	\$370.80	\$841.40	11.25
5"	3192-0500	22	14	18	10" x 14"	\$370.80	\$841.40	11.45
6"	3192-0600	22	14	18	10" x 14"	\$370.80	\$841.40	11.60
7"	3192-0700	22	20	24	16" x 20"	\$441.80	\$1,002.60	22.70
8"	3192-0800	22	20	24	16" x 20"	\$441.80	\$1,002.60	22.85
9"	3192-0900	22	20	24	16" x 20"	\$441.80	\$1,002.60	23.10
10"	3192-1000	22	20	24	16" x 20"	\$441.80	\$1,002.60	23.30
12"	3192-1200	22	20	28	20" x 20"	\$532.90	\$1,209.20	32.85

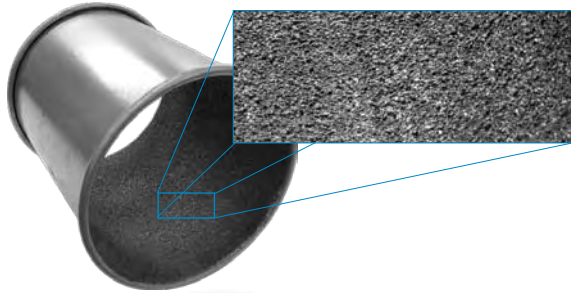


VERTICAL INSTALLATION

NOTE: ACCESS ENDCAP ON REVERSE SIDE



HORIZONTAL INSTALLATION



Tuff Shield Lining



- Flame sprayed RC60 coating
- Used for conveying cement, grain, shotblast, glass, and other abrasive materials.
- Not available in 3" diameter
- Branches only available at 45°

Ø	REDUCER	45° BRANCH	90° ELBOW	45° ELBOW	90° LR ELBOW	45° LR ELBOW	11" EXTENDER
4"	\$135.83	\$204.51	\$132.93	\$94.35	\$145.45	\$123.10	\$153.63
5"	\$148.14	\$218.39	\$152.20	\$110.52	\$180.38	\$145.50	\$167.44
6"	\$162.06	\$244.37	\$182.85	\$132.92	\$220.18	\$169.92	\$181.10
7"	\$188.07	\$278.69	\$262.52	\$195.95	\$330.53	\$266.44	\$197.93
8"	\$200.38	\$301.92	\$393.56	\$251.39	\$599.02	\$365.01	\$211.60
9"	\$218.72	\$330.07	\$451.08	\$285.42	\$689.53	\$417.75	\$225.98
10"	\$245.29	\$377.49	\$531.33	\$328.88	\$820.25	\$499.52	\$239.61
11"	\$267.43	\$419.79	\$630.99	\$367.42	\$953.63	\$566.45	\$256.31
12"	\$278.85	\$448.34	\$700.56	\$405.87	\$1,066.03	\$625.32	\$269.58
13"	\$318.12	\$540.44	\$802.79	\$465.96	\$1,243.11	\$728.67	\$342.51
14"	\$329.51	\$568.16	\$883.54	\$508.99	\$1,374.12	\$796.85	\$355.77
15"	\$372.93	\$615.78	\$974.62	\$590.34	\$1,637.76	\$900.41	\$374.32
16"	\$398.57	\$666.83	\$1,083.29	\$649.01	\$1,787.38	\$977.89	\$387.59
17"	\$414.91	\$724.38	\$1,254.63	\$721.31	\$1,977.79	\$1,105.01	\$407.81
18"	\$426.33	\$765.37	\$1,357.72	\$775.53	\$2,146.02	\$1,191.80	\$421.08
20"	\$471.04	\$900.87	\$1,640.13	\$937.00	\$2,757.08	\$1,482.36	\$458.54
22"	\$511.83	\$1,069.10	\$1,971.02	\$1,093.16	\$3,170.41	\$1,744.71	\$495.83
24"	\$549.58	\$1,240.70	\$2,296.34	\$1,265.22	\$3,704.25	\$2,024.78	\$532.88

*Quick-Fit TS is not available in 3" diameter

*Branches only available at 45°

Information is subject to change without notice. Please allow **3 weeks** for production of all Quick-Fit TS parts.

This revolutionary product comes with a flame-sprayed RC60 abrasion coating on the inside. The Tuff Shield coating will drastically increase the life of your ducting in the toughest environments like cement, grain, sand, shot blasts, glass, hardwoods, etc. RC60 material is a multi-carbide structure second only in hardness to Tungsten Carbide while having vastly superior mechanical properties.

Quick-Fit TS is available on all QF parts. However, due to the durable nature of our standard QF products, this high-abrasion coating is primarily designed for use on elbows, branches, reducers, and "extender" pieces that clamp on downstream of elbows to provide even more protection.

Aside from the RC 60 coating, Quick-Fit TS is identical to our standard product. It clamps together easily and can be taken apart and cleaned, replaced, or reconfigured in seconds.



Closed position



Partially open



Fully-open

Sliding Access Panel

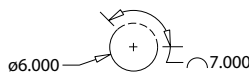


PART NO. 3103

- Allows access without removal of pipe.
- Product length equals nominal pipe length.
- 6"-24" units have 7" x 14" access hole.

Ø	PIPE LENGTH/SLIDE LENGTH	ACCESS HOLE	PART NUMBER	PRICE GALV.	SS 304 PRICE
6"	59.25 inches/18 Inches	7" x 14"	3103-0600-100000	\$112.20	\$188.80
7"	59.06 inches/18 Inches	7" x 14"	3103-0700-100000	\$124.10	\$216.00
8"	59.06 inches/18 Inches	7" x 14"	3103-0800-100000	\$130.20	\$225.00
9"	58.75 inches/18 Inches	7" x 14"	3103-0900-100000	\$135.90	\$241.90
10"	58.75 inches/18 Inches	7" x 14"	3103-1000-100000	\$141.70	\$255.70
11"	58.75 inches/18 Inches	7" x 14"	3103-1100-100000	\$157.60	\$290.20
12"	58.75 inches/18 Inches	7" x 14"	3103-1200-100000	\$162.90	\$290.20
13"	58.75 inches/18 Inches	7" x 14"	3103-1300-100000	\$192.90	\$356.30
14"	58.75 inches/18 Inches	7" x 14"	3103-1400-100000	\$192.90	\$356.30
15"	58.75 inches/18 Inches	7" x 14"	3103-1500-100000	\$225.00	\$415.20
16"	58.75 inches/18 Inches	7" x 14"	3103-1600-100000	\$225.00	\$415.20
17"	58.75 inches/18 Inches	7" x 14"	3103-1700-100000	\$249.50	\$472.70
18"	58.75 inches/18 Inches	7" x 14"	3103-1800-100000	\$249.50	\$472.70
20"	58.75 inches/18 Inches	7" x 14"	3103-2000-100000	\$284.60	\$547.80
22"	58.75 inches/18 Inches	7" x 14"	3103-2200-100000	\$311.40	\$607.30
24"	58.75 inches/18 Inches	7" x 14"	3103-2400-100000	\$350.30	\$691.40

The 7" dimension of the opening is measured around the pipe as shown.



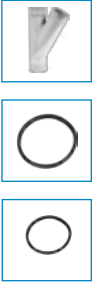
The SAP replaces the problematic bolt-on clean-out doors traditionally used in the ducting industry.

The SAP design is simple: A sleeve slides to cover -- or allow access to -- a large opening laser-cut into a standard 5-foot length of Q-F ducting.

- When the panel is closed, two standard Q-F clamps and o-rings hold it tightly in place, with minimal leakage. Moreover, as there are no bolts or screws penetrating the duct
- Due to the hole being laser cut into the pipe there is no reason to file or "clean up" around a ragged hole as it is already smooth and tag-free. Often, users of traditional bolt-on cleanout doors have found that poorly cut holes and screws penetrating the duct were actually the **source** of clogs.

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.

#-Denotes an item that is returnable. See page 59 for a full listing of returnable items.



LEAK-FREE SYSTEM

Nordfab's leak free system consists of three parts: Gaskets, O-rings, and Epoxy Caulking

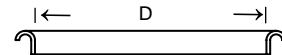
LEAK-FREE MOLDED GASKET

Ø	PART NO.	PRICE	WEIGHT
4"	3190-0400	\$1.90	0.02
5"	3190-0500	\$2.10	0.03
6"	3190-0600	\$2.30	0.04
7"	3190-0700	\$3.80	0.08
8"	3190-0800	\$4.00	0.09
9"	3190-0900	\$4.30	0.10
10"	3190-1000	\$4.70	0.11
12"	3190-1200	\$7.50	0.17
14"	3190-1400	\$8.00	0.23
16"	3190-1600	\$9.20	0.26
18"	3190-1800	\$10.30	0.28
20"	3190-2000	\$11.40	0.29
22"	3190-2200	\$14.10	0.31
24"	3190-2400	\$15.30	0.33

Leak-Free Molded Gasket



- General purpose oil resistant polymer.
- Performs well in many oil, water and hydraulic fluid applications.
- Should not be used with solvents such as acetone, MEK, ozone, chlorinated hydrocarbons, and nitro hydrocarbons.
- Temp range: -30° F to +225° F.
- No additional sizes available.



Classification: 1. ASTM D-2000 M2BG510 A24 B34 EO14
EO34 EF11 EF21

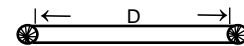
LEAK-FREE O-RING

Ø	PART NO.	PRICE	WEIGHT
4"	3191-0400	\$1.70	0.01
5"	3191-0500	\$1.80	0.02
6"	3191-0600	\$1.80	0.03
7"	3191-0700	\$2.10	0.04
8"	3191-0800	\$2.20	0.08
9"	3191-0900	\$2.40	0.09
10"	3191-1000	\$2.50	0.10
12"	3191-1200	\$2.70	0.17
14"	3191-1400	\$3.00	0.23
16"	3191-1600	\$3.20	0.26
18"	3191-1800	\$3.50	0.28
20"	3191-2000	\$3.70	0.29
22"	3191-2200	\$4.00	0.31
24"	3191-2200	\$4.20	0.33

Leak-Free O-Ring



- Performs well with many oils and chemicals.
- Temp range: -30° F to +225° F.
- Can't be damaged by flexing and twisting.
- These materials work in conjunction with Nordfab's standard O-ring. IT DOES NOT REPLACE IT.
- Material color is grey or black with grey mark.



Classification: 1. ASTM D-1056-68.....SBE43
2. ASTM D-1056-85, 91, 98.....2B3

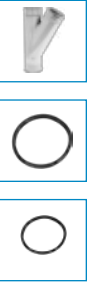
LEAK-FREE EPOXY CAULKING IS AVAILABLE ON ALL NON-LASER WELDED PARTS. CALL FOR PRICING

Leak-Free Epoxy Caulking



- Epoxy Caulking.
- Good to excellent resistance to most solvents, acids, oils, and alkalides.

A leak-free duct system is largely dependent on the skill and care of the installer, so Nordfab cannot guarantee a 100% leak free system. However, if users consult the technical data (to ensure that our gasket and sealing materials will stand up to the materials being conveyed) and take care in the installation process, this system has proven that it can be 'Leak Free'.



The Three Part System Addresses All Possible Leakage Points

Sealing Joints Between Ducts – It's a Snap

The molded Nitrile gaskets slip easily onto one end of the duct and are connected with a standard Q-F clamp to form a tight and re-useable seal. Note the direction of the airflow when installing the duct.



1) Wipe rolled edge with clean cloth. Then apply a high tack gasket adhesive per the manufacturer's instructions. High tack gasket adhesives can be purchased locally at industrial or automotive suppliers in either aerosol spray or brushable formulations.

2) Carefully place the gasket along the rolled edge of the part, being careful to avoid kinks or voids. Only one gasket is needed per joint.

3) Join the gasketed end of the pipe to a non-gasketed end of the next part in the ducting run using a standard Q-F clamp. The oil-mist gasket, in addition to the gasket inside the Q-F clamp, provides dual protection against leakage.

The Q-F Leak Free Adjustable-Length Duct

The patented Nordfab "adjustable nipple" provides unlimited flexibility in the length of a duct run.

1. Cut a standard piece of pipe to length and insert it into the short adjustable nipple section. This assembly will telescope to any length. Place the soft grey (or black with grey mark) o-ring seal onto the cut (inside) piece of pipe and seat it evenly against the rolled metal edge of the adjustable nipple.

2. Place the harder black o-ring seal against the outside of the inner grey seal.

The order should be as follows:

- a) rolled edge or nipple; against
- b) soft, small-diameter o-ring; against
- c) standard Nordfab o-ring

3. Finally clamp the standard Q-F clamp over the rolled metal edge of the adjustable nipple and the hard rolled black o-ring for a leak-free connection. [Make sure both seals fit completely under the clamp and that the air-flows from the cut pipe towards the adjustable nipple].



Custom Parts – High Quality Duct with Epoxy Caulking

Nordfab's laser welded longitudinal seams are guaranteed to be leak proof. To ensure that other welds and gores on branches, elbows, and other custom parts are leak-free, Nordfab uses an epoxy caulking. These parts can be installed in seconds using the standard Q-F clamp and the between-the-joint gaskets.



#-Denotes an item that is returnable. See page 59 for a full listing of returnable items.



Without EIF



With EIF

Explosion Isolation Flap

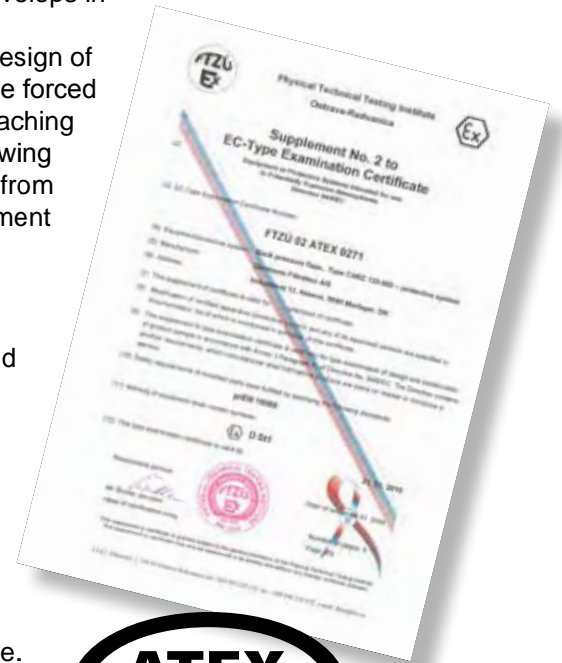
The Standards

Various NFPA standards require that a dust collection system has a means of preventing the transmission of energy from a fire or explosion to the building/work area. Through extensive testing by a third party testing facility, Nordfab has developed the Explosion Isolation Flap (EIF) type CARZ to be installed upstream of the dust collector.



How it works

Under normal operation the flap will open as the downstream air moving device generates a flow in the ductwork. Should an explosion happen in the downstream equipment - like a dust collector - a pressure front develops in the ductwork within milliseconds and due to the design of the EIF, the internal flap will be forced closed and seal off the approaching flame front. This prevents glowing embers and burning material from entering into upstream equipment and spaces.



The Design

The design of the EIF is critical as the flap must function in milliseconds and therefore must be of light construction but must be strong enough to withstand the explosion pressure.

Many full scale tests were performed to arrive at the proper design and assure proper function.

The Tests

Since the EIF is a safety device, Nordfab submitted the EIF to rigorous testing by an accredited testing facility in accordance with 94/9/EC Directive.

Label: ATS.096 CARZ (0120-0500)
Label: ATS.098 CARZ (0560-01000)

CE1180 D St1



The marking is based on product certification by N.B. 1026.

The certificates allow max P_{red} 0.5 bar pressure resistance for sizes dia 22" (560mm) and smaller. Sizes 630mm-1000mm: 0.30 bar



Normal Operation



Explosion/deflagration



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.

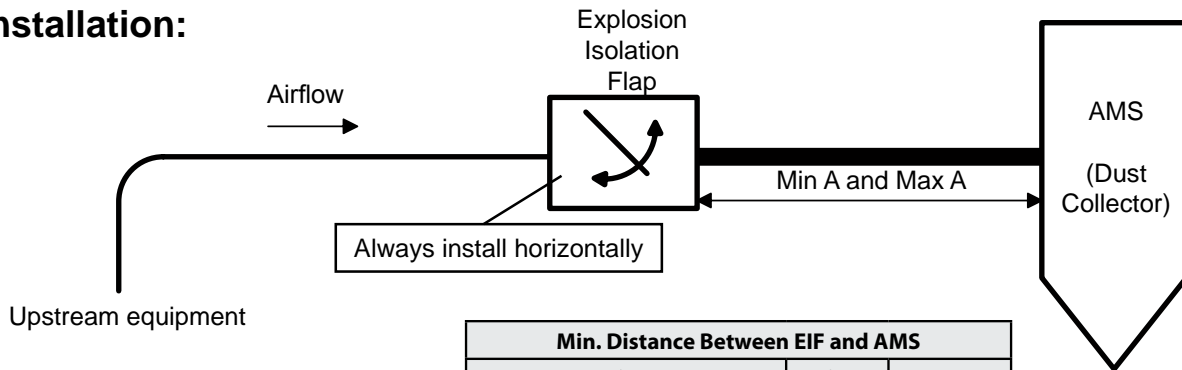
Transport Medium: Standard Air

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 5"-22"	0.5 bar
CARZ 630mm-1000mm	0.3 bar

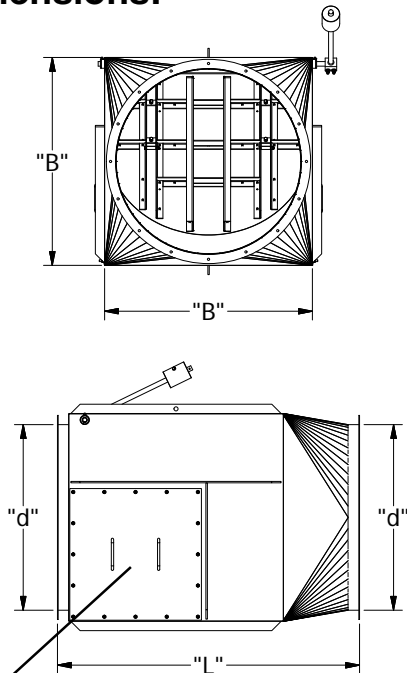
Installation:



Min. Distance Between EIF and AMS		
Size	Min A	Max A
CARZ 5"-20"	7'	32'
CARZ 22" & 630mm-1000mm	17'	32'

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

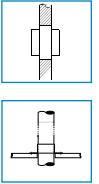
Dimensions:



Inspection door 22" and larger

ACTUAL DIAMETER	LENGTH (L)	BODY (B)	WEIGHT (LBS)	PRICE QF	PRICE FLANGED
5"	17 5/8"	8 5/8"	24	\$2,150	\$2,165
6"	19 1/4"	10 1/4"	28	\$2,195	\$2,215
7"	20 "	11"	31	\$2,295	\$2,315
8"	20 3/4"	11 3/4"	34	\$2,450	\$2,475
10"	22 3/4"	13 3/4"	42	\$2,525	\$2,560
12"	25 3/8"	16 3/8"	60	\$2,845	\$2,895
14"	26 3/4"	17 3/4"	73	\$2,995	\$3,360
16"	28 5/8"	19 3/4"	95	\$3,620	\$3,695
18"	30 5/8"	21 5/8"	115	\$3,795	\$3,850
20"	32 3/4"	23 5/8"	127	\$4,035	\$4,265
22"	42"	26 "	154	\$4,274	\$4,525
630 mm	44 3/4"	28 3/4"	172	N/A	\$4,775
710 mm	48"	32"	226	N/A	\$4,950
800 mm	51 1/2"	34 1/2"	272	N/A	\$6,375
900 mm	55 1/2"	39 3/8"	318	N/A	\$6,625
1000 mm	59 3/8"	43 3/8"	402	N/A	\$6,895

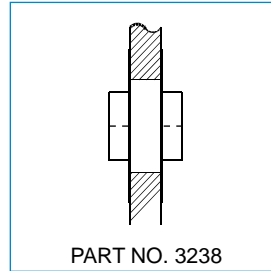
#-Denotes an item that is returnable. See page 59 for a full listing of returnable items.



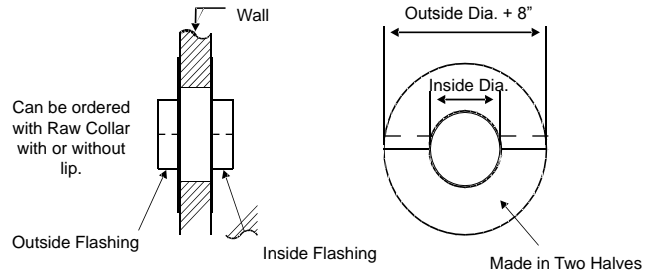
WALL FLASHING

Ø	PART NO.	GAUGE	PRICE	SS 304 PRICE
4"	3238-0400-100000	20	\$40.70	\$70.60
5"	3238-0500-100000	20	\$42.80	\$78.50
6"	3238-0600-100000	20	\$51.20	\$87.80
7"	3238-0700-100000	20	\$55.20	\$94.40
8"	3238-0800-100000	20	\$57.60	\$99.20
9"	3238-0900-100000	20	\$64.50	\$101.60
10"	3238-1000-100000	20	\$68.00	\$105.70
12"	3238-1200-100000	20	\$75.20	\$110.80
14"	3238-1400-100000	20	\$78.40	\$119.70
16"	3238-1600-100000	20	\$85.30	\$129.40
18"	3238-1800-100000	20	\$92.50	\$161.10
20"	3238-2000-100000	20	\$98.40	\$171.60
22"	3238-2200-100000	20	\$105.30	\$184.70
24"	3238-2400-100000	20	\$121.10	\$212.30

Wall Flashing



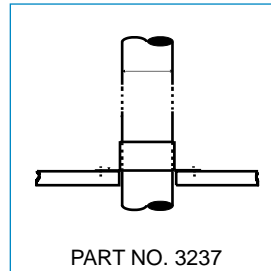
- Provides weather protection for wall penetration.
- Ordering "one Flashing" provides you with both 1 inside and 1 outside flashing (4 halves).



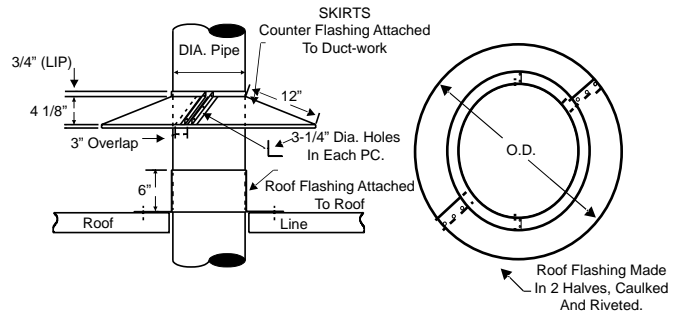
ROOF FLASHING

Ø	PART NO.	GAUGE	PRICE	SS 304 PRICE
4"	3237-0400-100000	20	\$40.70	\$70.60
5"	3237-0500-100000	20	\$42.80	\$78.50
6"	3237-0600-100000	20	\$51.20	\$87.80
7"	3237-0700-100000	20	\$55.20	\$94.40
8"	3237-0800-100000	20	\$57.60	\$99.20
9"	3237-0900-100000	20	\$64.50	\$101.60
10"	3237-1000-100000	20	\$68.00	\$105.70
12"	3237-1200-100000	20	\$75.20	\$110.80
14"	3237-1400-100000	20	\$78.40	\$119.70
16"	3237-1600-100000	20	\$85.30	\$129.40
18"	3237-1800-100000	20	\$92.50	\$161.10
20"	3237-2000-100000	20	\$98.40	\$171.60
22"	3237-2200-100000	20	\$105.30	\$184.70
24"	3237-2400-100000	20	\$121.10	\$212.40

Roof Flashing



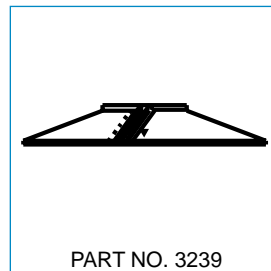
- Provides weather protection for Roof penetration..



ROOF SKIRT

Ø	PART NO.	GAUGE	PRICE	SS 304 PRICE
4"	3239-0400-100000	20	\$48.10	\$89.90
5"	3239-0500-100000	20	\$54.50	\$103.00
6"	3239-0600-100000	20	\$55.30	\$104.00
7"	3239-0700-100000	20	\$65.20	\$124.60
8"	3239-0800-100000	20	\$65.20	\$124.60
9"	3239-0900-100000	20	\$77.80	\$145.30
10"	3239-1000-100000	20	\$77.80	\$145.30
12"	3239-1200-100000	20	\$107.30	\$200.30
14"	3239-1400-100000	20	\$111.90	\$209.10
16"	3239-1600-100000	20	\$118.90	\$224.40
18"	3239-1800-100000	20	\$135.40	\$254.20
20"	3239-2000-100000	20	\$149.20	\$292.40
22"	3239-2200-100000	20	\$163.50	\$361.60
24"	3239-2400-100000	20	\$180.40	\$401.20

Roof Skirt



- Provides weather protection for Roof penetration..



THE WORLD'S FASTEST DUCTING

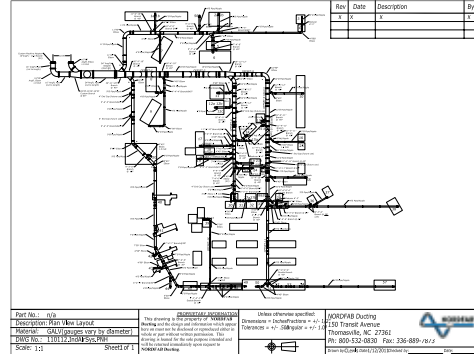
NORDFAB SALES TOOLS

Stay up to date with the latest Nordfab software. Average download time is only 30 seconds for all downloads on a high speed connection.

NordCAD for AutoCAD

The NordCAD plug-in for AutoCAD allows you to design ducting layouts with pre-drawn Nordfab parts you just place into your drawing and even generate a parts list.

Download at - <http://209.200.88.35/custapps/nordcad-wd>



Quick-Tick

Quick-Tick is our quick and easy quoting tool. Just pick the parts you need and it will produce a quote or order form complete with prices and part numbers.

Download at - <http://209.200.88.35/custapps/quicktick-jw>



QDD (Quick Duct Designer)

QDD automates the entire design process for small to medium dust collection systems. You need only indicate the machine drops and CFM requirements on a grid representing the factory floor plan. Then QDD automatically draws the ducting, calculates the diameter and provides a parts list and pricing.

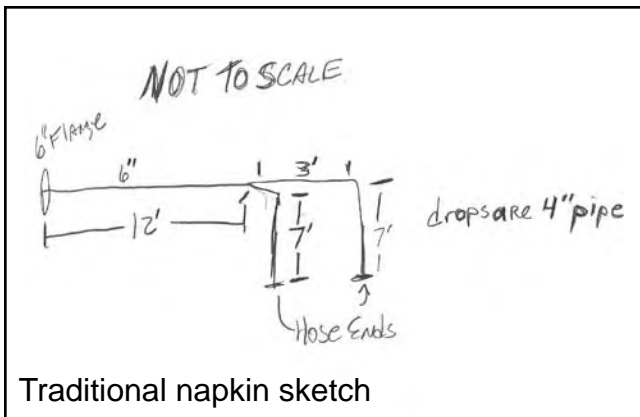
Log in at - http://83.136.92.39/STB_TH_QF/Login.asp



NordSketch 3D

You can be laying out your sketches in full 3D. Show your customers great 3D renderings of their projects and win more jobs with NordSketch!

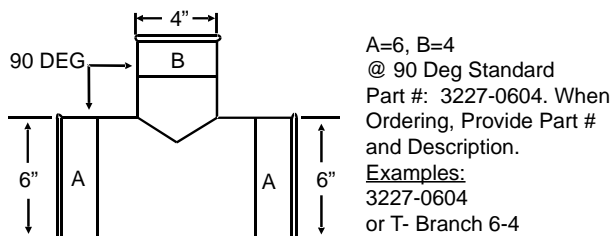
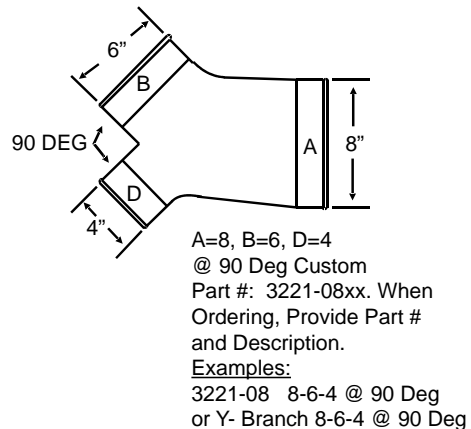
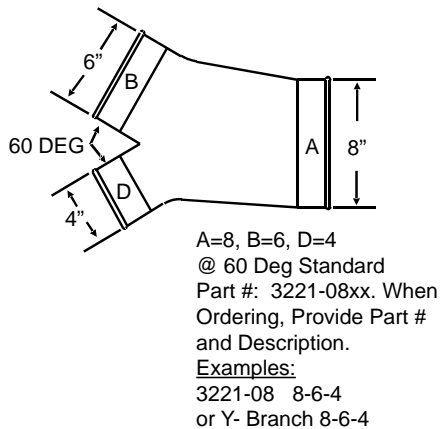
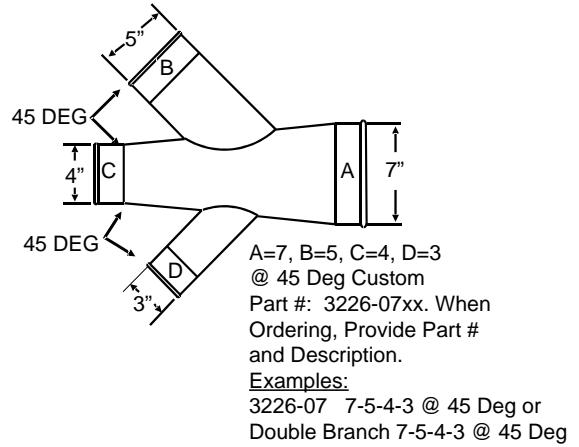
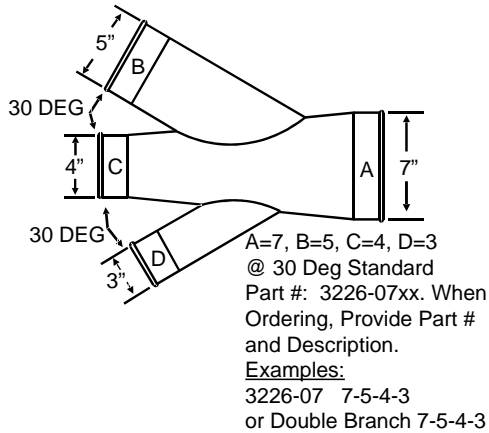
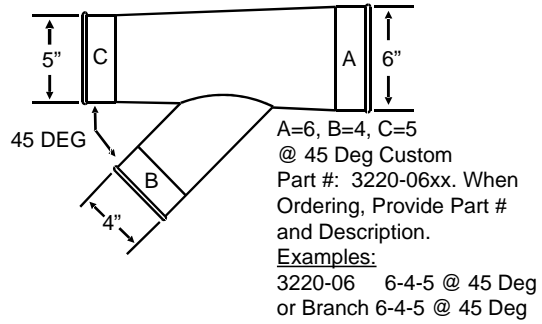
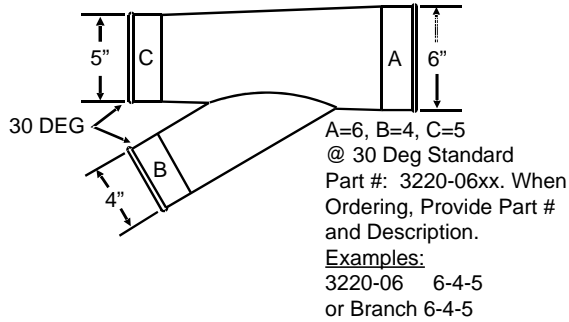
Contact Chris Lewis to get a copy. chris.lewis@nordfab.com



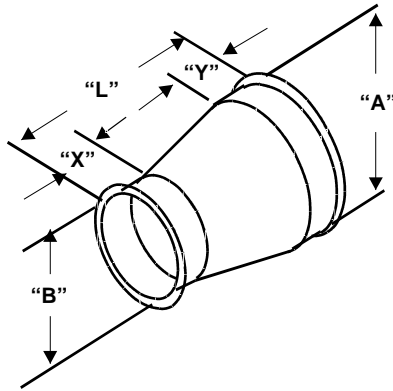
Traditional napkin sketch



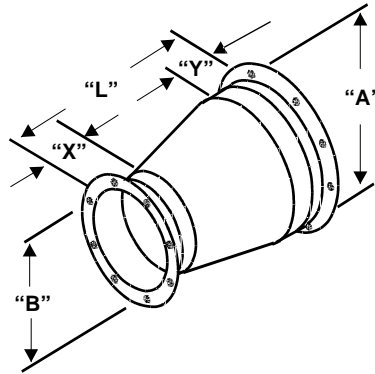
BRANCH STYLES



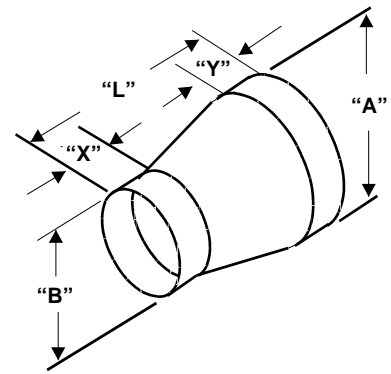
REDUCER STYLES



“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]

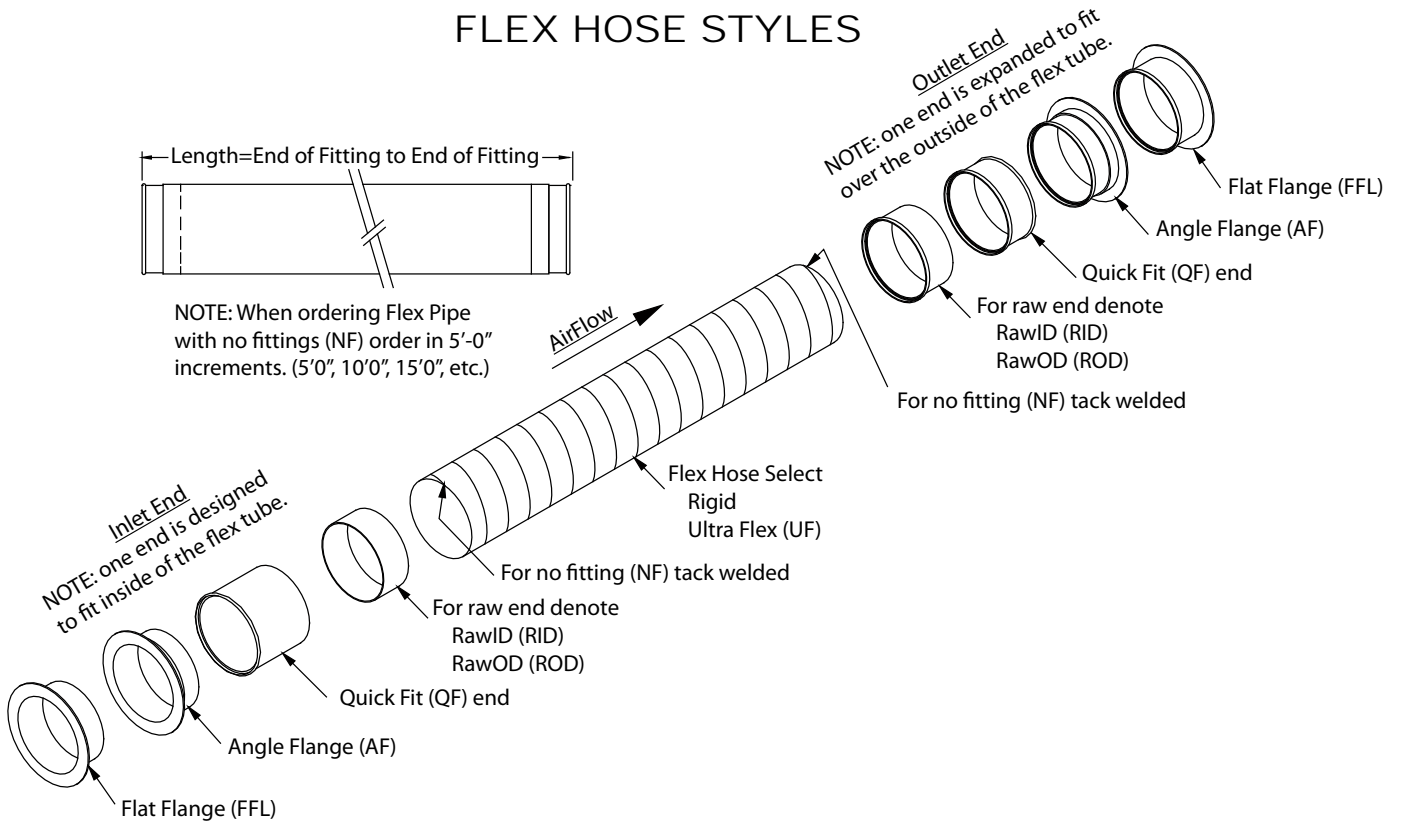
B) Material gauges as follows:

DIA.	GALV. GAUGE	SS GAUGE
4" - 12"	<u>22</u>	<u>22</u>
14" - 22"	<u>20</u>	<u>20</u>

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

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.

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

TRANSITION STYLES

Transition Rectangular to Round

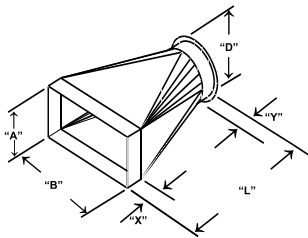


PART NO. 3225

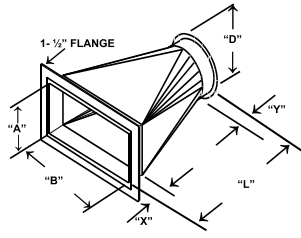
Transition Square to Square



PART NO. 3225



STYLE #1



STYLE #2 (Additional cost for Flange)

By default, X=2, Y=2, and B=L

- 'L' must be at least 75% of 'B' or it will be Square to Square.
- 'L' must be 7" minimum.

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

- Specify Rectangle End: Flanged Raw End I.D. Raw End O.D.
- Flange Type: Angle Bar Flat Bar Sheet Metal Plasma Cut
- Specify Round End: QF Flanged 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

Item #	Qty.	"D"	"A"	"B"	"X" Std 2"	"Y" Std 2"	"L"	Gauge	Flange Material	Flg 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.

Who Uses Quick-Fit

Quick-Fit is very popular among any industry that needs to deal with the collection and removal of Dust, Fume or Mist.

Some of those industries include:

- Agriculture
- Automotive
- Boatbuilding
- Concrete
- Food Processing
- Furniture
- Metalworking
- Mining
- Paper
- Plastics
- Powder, Bulk and Solids
- Recycling
- Textiles
- Woodworking



Paper

Quick-Fit is used to convey dozens of materials.

Below is a list of some of them:

- Agricultural dusts
- Carbon dust
- Cardboard trim
- Chemical solids
- Chemical fumes
- Concrete dust
- Condensation
- Cutting fluid mists
- Diaper fluff
- Flour
- Food dusts
- Food products
- Fume exhausts
- Metal dusts or shavings
- Milk powder
- Oil mists
- Oven exhausts
- Paint products
- Paper
- Petrochemicals
- Pharmaceuticals
- Plastic dusts
- Salt
- Smoke
- Spices
- Sugar
- Textile dusts and streamers
- Vehicle exhausts
- Welding fumes
- Wood dusts



Tomato processing



Machining



Lime processing

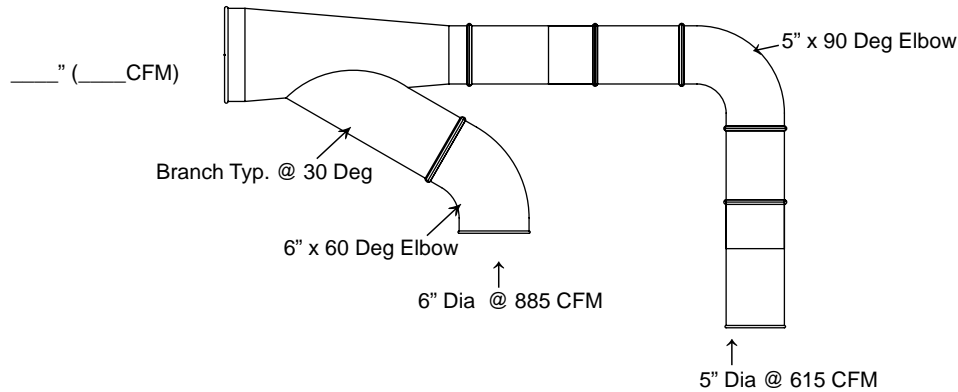


Concrete

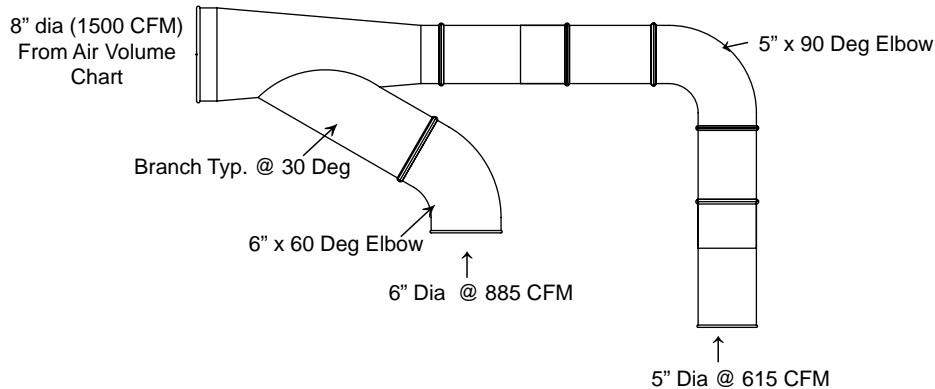


Poultry

SIZING A QF PIPE SYSTEM



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. 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 a 8-6-5 branch.



THE WORLD'S FASTEST DUCTING

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.

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 4" pipe will convey 395 CFM at 4500 FPM. This indicates that a 4" pick-up on a machine will use 395 CFM from the filtering system. Or working in reverse, if you know that a machine will require approximately 400 CFM to remove the waste, then you should design a 4" pipe for the application.

AIR VOLUME IN DUCTS IN CUBIC FEET PER MINUTE (CFM)											
DUCT Ø	VELOCITY IN FEET PER MINUTE (FPM)										
	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	14315	15975	17635	19295	20955	22615
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



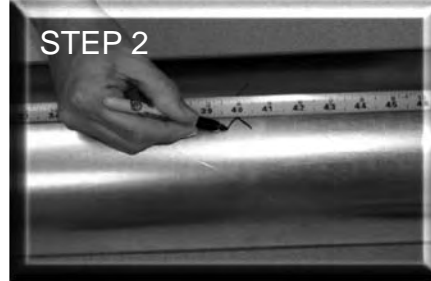
INSTRUCTIONS FOR USING THE "QF" ADJUSTABLE NIPPLE WITH RUBBER O-RING FOR DRY SYSTEM

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



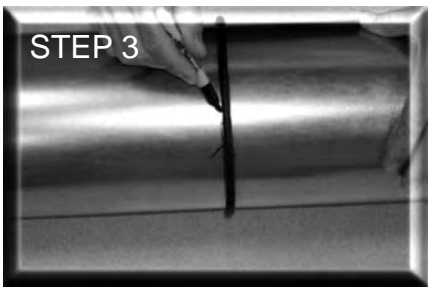
STEP 1

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

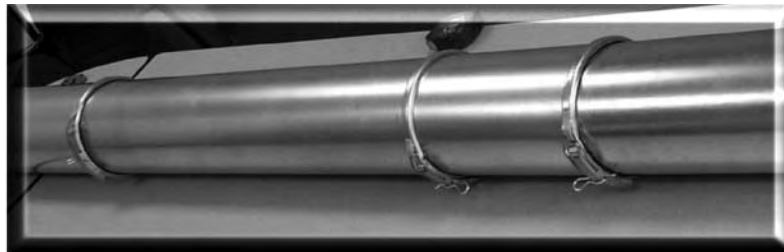
Cut piece of pipe put O-ring on cut pipe, slide nipple over



STEP 6

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

FINISHED CONNECTION
USING THE ADJUST
NIPPLE ASSEMBLY.



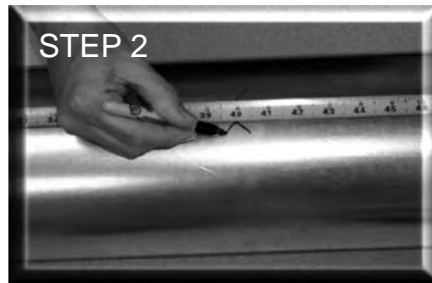
NOTE: KEEP CUT PIPE IN THE DIRECTION AS THE AIR FLOW.

INSTRUCTIONS FOR USING THE HEAVY WALL COUPLING

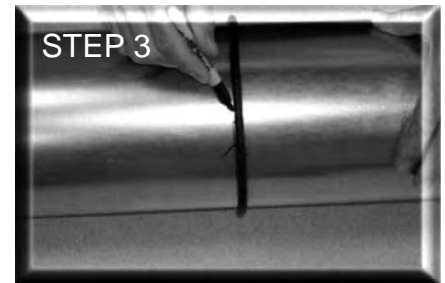
Each QF Heavy Wall pipe section is 5 ft. in length. To shorten to accommodate an existing span, a heavy wall coupling is used.



Measure distance to be spanned.



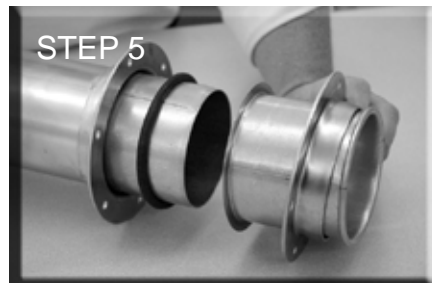
Mark distance to be spanned less 1.75".



Use O-ring provided and mark for cut.



Drill access hole then cut with saw



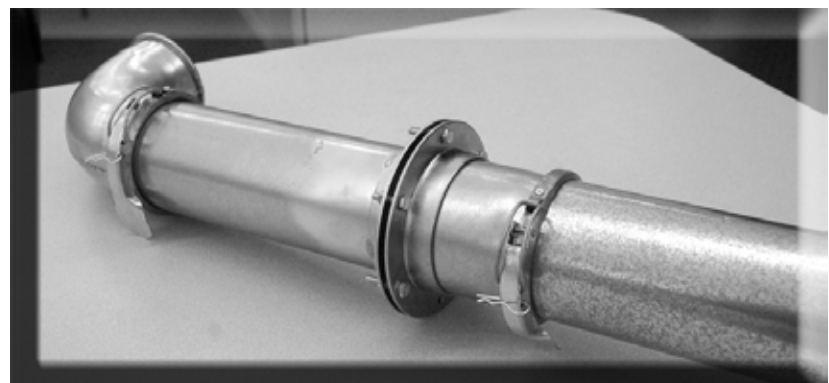
Place the coupling over your cut piece of pipe with o-ring.



Connect the two flanges with the provided nuts and bolts



Weld or mechanically attach the loose collar to the pipe.



FINISHED CONNECTION USING THE HEAVY WALL COUPLING.



Installation Tips

STEP ONE: Make Sure Your Shipment is Complete and Undamaged. Nordfab ships most orders FOB Nordfab or "Free On Board." This means that it is your responsibility to ensure that the materials you receive do not have freight damage and that the carrier has delivered all the boxes in your shipment.

Inspect all boxes for outward damage BEFORE signing for receipt. The boxes should be strapped to a pallet, and not be crushed, torn or otherwise damaged. If you find damage, either refuse the shipment or note the issue on the receipt you sign. Unless you do this, any future claims will be virtually impossible to collect.

Additionally, before signing for your shipment, ensure that all boxes are accounted for. You can find the number of boxes in a shipment by checking the delivery receipt the driver will ask you to sign. Again, note any discrepancies before signing. **IMPORTANT SAFETY NOTE:** Beware of the sharp metal staples used to seal the shipping boxes.

STEP TWO: Understanding the Packing Documents. Nordfab packs boxes with the goal of reducing shipping costs, not in the order the parts are needed. Do not simply tear into the boxes and begin removing parts. At least one box on each order will contain Nordfab's "Packing List." Locate these documents before opening any boxes as it will give you details as to what is in each box. Avoid opening boxes until you need them to reduce the chance of parts being lost or damaged on site. If you have any problems, call your dealer as he is in the best position to rectify any problems with your particular order. Have all packing documentation with you when you call.

STEP THREE: Preparing to Install Your Ducting. It is important for the installer to understand the layout the system designer planned for the ducting. Follow all local codes and regulations and note loading capabilities of structures to ensure the ducting is properly supported and that the building can carry the ducting system. If your installer doesn't understand the layout, he will not have all the parts necessary to complete the job. If you do not have a clear understanding or drawing of the system you are about to install, please call the person who designed the system before you begin work.



STEP FOUR: Laying out the duct. Begin by laying the system out on the floor below where it will hang. Remember that two parts that connect will often not be in the same box, so this step dramatically reduces the time it takes to complete the job once the installation begins.

NOTE: This is the step where you could possibly find that you do not have all the parts necessary to complete the job. In that case, contact your dealer immediately so that he can get a head start on getting you the needed parts as well as help you verify that your layout matches the one planned by the system designer.

STEP FIVE: The Adjustable Nipple. One of the most important benefits of Quick-Fit is that it is not necessary to take exact measurements before cutting each piece of pipe. The adjustable nipple is an 11-inch section of pipe that has a slightly larger diameter than a standard Q-F duct.

STEP SIX: Supporting Your Ductwork. Nordfab has a variety of duct hanging devices, but it is your responsibility to ensure the safety of all ducting. Please check with local agencies to ensure that your ducting is supported in a way that meets local codes. When determining the weight your ceiling and hangers must support, always allow for the ducting being 100 percent clogged with whatever material is being conveyed.



STEP SEVEN: Pre-Stretch Your Clamps. The Nordfab clamps are designed to provide a tight seal, which means that they also require some pressure to close. By pre-stretching the clamp around the rolled edge of a single piece of pipe, you can make it much easier to close when you connect two pieces together.

STEP EIGHT: Clamp As Many Parts Together As Possible on the Ground. It is much faster and easier to close the clamps on stable ground than on a scaffold. Therefore many installers connect two or three pieces of ductwork together on the floor before lifting them into place.

STEP NINE: Use the Cotter Pins. After closing each clamp, install one of the enclosed cotter pins into the hole as shown. This ensures that the clamp cannot come open unexpectedly. Install the cotter pin as soon as a clamp is closed and beware of clamps until the cotter pin is safely installed.

IMPORTANT SAFETY NOTE: On very rare occasions, unpinned clamps can spring open unexpectedly which can cause the pipe to drop. Additionally, the handles on unpinned clamps have been known to cause injury when they sprung open.



Shipping Details

LTL (Less Than Truckload) Shipments



LTL carriers have "minimum" charges. So one or two parts in a box may be the most economical and safest way to package them

- We have worked with virtually every carrier and keep record of their strengths and weaknesses. Sometimes we do not select the least expensive carrier because we are dissatisfied with its damage rate, reliability, or its willingness to solve issues when they arise.
- The term "Best Way" means different things to different people. We interpret this to mean "cheapest reliable carrier." If your meaning differs, then let us know your priorities.
- While we can ship freight in any class, we have negotiated very large discounts for FAK Class 100 – which covers virtually all of the products we sell.
- When the dealer specifies a carrier, we use that company, regardless of our own experience. When arranging or specifying your own carrier, make sure the service he offers is "door-to-door" service without another carrier being involved as this may add costs and delays.

- LTL carriers have a minimum charge of all orders less than 150 pounds. So when you order one or two parts, you may be surprised when they arrive strapped to a whole pallet or in one very large box. We have found that this method reduces the instances for damage – without increasing the costs.
- While it is possible and economical to strap items to the top of large boxes, it is not standard practice for two reasons:
 - a) The instance of damage increases dramatically.
 - b) We can easily load these boxes at our level docks. However, customers have found it very difficult to unload trucks at the job site where there is no guarantee of a level dock or an experienced forklift driver.



It is possible to stack some items on top of boxes, but it can lead to damage and problems when unloading the shipment.



Oversized or loose items are charged at a higher rate.

- Sometimes it is possible and safe to stack items or boxes on top of our standard cartons, so we can use this method to save shipping costs. HOWEVER, it is up to you to let us know when this stacking is acceptable and it is up to you to work with the freight companies to get reimbursement for any damaged items.
- There is an additional charge for any item that is too large to fit on a standard pallet. This includes loose items not attached to any pallet. Also, we know from experience that having an item "hang over" the edges of the pallet is a recipe for freight damage, so we use larger pallets (at the higher rate) when necessary. NOTE a standard skid is 44" X 48" X 65" tall.
- When possible, Nordfab "nests" smaller pipe inside larger pipe to save space. We have learned from experience that this is not always practical. If the smaller diameter pipe is dramatically smaller than the pipe it nests into, or if the smaller pipe is flanged, then there is a high probability that both pipes will be damaged in shipment.

- Occasionally dealers send several different orders to the same address on the same day. You can save money by having Nordfab package multiple orders onto a single pallet. The individual boxes will be marked with the order number. This multiple packaging can cause confusion on site, so it is not our standard practice. If you want multiple orders packaged together it must be noted on your purchase order **FOR ALL ORDERS TO BE PACKAGED TOGETHER.**
- NOTE, you may be able to save even more on shipping if you instruct us NOT to separate the orders. For example, if pipe for three different orders is nested together, it takes up much less room than having three sets of pipe separated into separate compartments. However, this method requires the parts to be separated on site.
- No LTL shipment should exceed more than SIX pallets or our discount is eliminated and an expensive "flat rate per mile" fee is charged. For this reason, if your order contains more than six pallets, we will split it into multiple shipments. This causes a bit of extra paperwork for us, and you'll need to inform the people who receive your shipments on site. But the extra work is worth the savings.



Nested Pipe

UPS Shipments

- Unlike standard LTL shipments, UPS does charge by the size of the box. So Nordfab always cuts boxes down as small as practical when shipping via UPS.
- The largest pipe we can ship economically via UPS is 14". The largest elbow is a 14" 90-degree elbow.
- The largest volume box we can ship economically via UPS is 24" X 24" by 24".
- When you need next day delivery specify WHEN you need the item on site. There are three levels of UPS Red service (delivered by 8:30am, 10:30am, or 5:00pm). The later the delivery, the less the cost. Nordfab's default is 10:30am. If you need the product earlier - or can accept it later- please let us know. If you don't need the part until the afternoon, it is slightly cheaper.



THE WORLD'S FASTEST DUCTING

CONDITIONS OF SALE

GENERAL CONDITIONS OF SALE

The terms and conditions of acceptance of sale set forth herein, and all drawings, specifications, descriptions and other documents attached hereto and incorporated here in by reference constitute the entire agreement between Nordfab (seller) and the buyer. Seller's acceptance of his order is expressly conditioned by the buyer's consent to the terms contained herein. The terms and conditions of the seller's proposal (if any) and acknowledgment shall prevail over any conflicting or different terms in buyer's order unless buyer notifies seller in writing of its objections thereto within (15) fifteen days from receipt of seller's acknowledgment. The failure of Seller to object to any provision in conflict herewith whether contained in Buyer's purchase order or otherwise, shall not be construed as a waiver of the provisions hereof nor as an acceptance thereof. Seller's proposal is only preliminary unless it is otherwise confirmed. If any of the four terms and conditions of Seller's proposal conflict with these general conditions of sale, those contained in the proposal shall prevail.

WARRANTIES

The Seller warrants that the products sold hereunder conform to any applicable drawings and specifications accepted in writing by Seller and will be free from any defects in material and workmanship which become apparent under normal use, and of which Buyer gives written notice to Seller within a period of 6 months from the date of installation or 12 months from the date of shipment, whichever period first expires. If, within that period, the Seller receives from Buyer written notice of any alleged defect in or non-conformance of any product and if, in Seller's sole judgement, the product does not conform or is found to be defective in material or workmanship, then Buyer shall, at Seller's request, return the part or product F.O.B. Seller's shipping point and Seller at its option and expense, shall repair or replace the defective part or product or repay the Buyer the full price paid for such part or product by Buyer. Dismounting and reinstallation of defective or nonconforming parts is done at Buyer's expense. Warranty for delivery of spare parts or replacement for non-conforming parts expires when warranty for original equipment expires. Any repayment of purchase price shall be without interest. Seller'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. There are no other warranties, expressed, statutory or implied, including those of merchantability, quality or fitness for purpose, nor any affirmation of fact or representation which extends beyond the description on the face here of. The warranties of Seller do not cover and Seller makes no warranty with respect to:

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

TERMS OF PAYMENT

NO EXCEPTIONS, unless authorized by the National Sales Manager. Nordfab's customer is the authorized dealer. Terms agreed on: NET 30 (unless otherwise agreed upon).

ORDERING NOTES:

Unless specified, 3" through 24" is QF, over 24" is flanged. Data is subject to change without notice. Stainless steel components requiring flanges will be supplied with SS flanges unless otherwise specified. Stainless steel components are manufactured with NO.304 SS. [Call for SS 316 Prices] Adding a SS after standard part numbers specifies a SS part. For special parts or items to be custom manufactured call for quotation.

CLAIMS FOR SHORTAGES

Any claim for loss, breakage (obvious or concealed) are Buyer's responsibility and should be made to the carrier immediately. Seller will render Buyer reasonable assistance in securing satisfactory adjustment of such claims. Any notices of shortages or other errors must be made in writing to Seller within 15 days after receipt of shipment. Failure to give such notice shall constitute unqualified acceptance and a waiver of all claims by Buyer. Risk of loss for damages to the products sold hereunder passes to Buyer upon delivery to the carrier regardless of who pays shipping costs.

LIMITATION OF LIABILITY

Seller's sole responsibility and Buyer's sole and exclusive remedy with respect to any breach of warranty or guarantee under this agreement shall be limited to repair, replacement or repayment of the purchase price at Seller's sole option. Seller's total responsibility and liability 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 warranty or guarantee arising out of or related to performance of this agreement or the products covered hereunder or the performance thereof shall not exceed the purchase price. In no event shall Seller be liable for any special, indirect, incidental or consequential damages of any character; including but not limited to, loss of use of productive facilities or equipment, lost profits, property damage, expense incurred in reliance on Seller's performance hereunder or lost production, whether suffered by Buyer or any third party. Seller 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.

RETURN GOODS AUTHORIZATION

To return Nordfab Ducting products, dealers must fill out an RGA Worksheet. The RGA Worksheet can be requested from Nordfab Sales Department. Each RGA must be filled out completely.

An RGA will not be issued for any order that is older than 90 days from the original ship date. Damage and "white rust" occur over time at job sites, which may cause the items to not be sellable.

RGA's will be valid for 30 days from date of issue. Nordfab product must be received at our designated return point factory within 30 days from the date of issue to receive credit. Absolutely no shipments will be accepted at Nordfab without an RGA. Shipments without RGAs will be returned to shipper.

There is a 25% restocking charge for all returned goods. All components must arrive in "as-new" sellable condition. Final determination of sell-ability will rest solely with Nordfab.

Each restockable item is noted in the price list with a "#" after the list price. These are the only items we stock, so therefore the only items that can be restocked. Other items are considered custom or special order and not returnable. There is also a chart on page 59 that lists all of the returnable parts and to which warehouse they may be returned. Nordfab reserves the right to limit return quantities. All returned goods must be shipped freight prepaid. All Nordfab Ducting must be shipped vertically with rolled edge down to avoid incurring out-of round damage during shipping.



THE WORLD'S FASTEST DUCTING

RETURN GOODS CHART

SS 304

Galvanized

Item	Part #	Ø 1	1.5	2	2.5	3	3.5	4	5	5.5	6	7	8	9	10	11	12	13	14	15	16	17	18	20		
Flex Hose Clamp	3285		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
QF Clamp	3260	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Adjustable Nipple Incl. O-Ring	3202	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Pipe 5' Length (3" is 60")	3200	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Vibration Isolator	3206		O	O	O	O	O																			
Router Hood	3231		O	O	O																					
Radial Arm Saw Hood.	3229		O	O	O																					
O-Ring RED	3262	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O		
O-Ring BLACK	3262	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O		
Butterfly Valve	3208		O	O	O	O																				
Pipe Hanger	3265	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O		
QF Clamp	3260	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O		
Angle Flange Adapter	3250	O	O	O	O	O	O																			
Flex Hose Adapter	3282	O	O	O	O	O	O																			
Machine Adapter Standard is QF to ID	Std 3249	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O		
Floor Sweep	3248		O	O	O																					
Automatic Blast Gate	3245		O	O	O	O																				
Blast Gate	3240	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O		
Elbows	Long Radius	300																								
		450																								
		600																								
		900	O	O	O	O																				
		Standard Radius	300	O	O	O	O																			
			450	O	O	O	O																			
			600	O	O	O	O																			
Standard Radius	900	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O		
	Adjustable Nipple Incl. O-Ring	3202	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O		
	Pipe 5' Length (3" is 60")	3200	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O		
Ø INCHES		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20	22	24						

REDUCERS:

Galv Reducer 5-4	X
Galv Reducer 6-4	X
Galv Reducer 6-5	X
Galv Reducer 7-4	X
Galv Reducer 7-5	X
Galv Reducer 7-6	X
Galv Reducer 8-4	X
Galv Reducer 8-5	X
Galv Reducer 8-6	X
Galv Reducer 8-7	X

BRANCHES:

Galv Branch QF Standard 6-4-4 30°	X
Galv Branch QF Standard 6-4-6 30°	X
Galv Branch QF Standard 6-6-6 30°	X
Galv Branch QF Standard 8-6-6 30°	X
Galv Branch QF Standard 8-8-8 30°	X
Galv Branch QF Standard 8-8-8 30°	X

GRIPPLE HANGERS:

Up to 22 lbs	X
Up to 100 lbs	X
Up to 200 lbs	X
Up to 495 lbs	X
Up to 715 lbs	X

BEAM CLAMPS:

Beam Clamps	3269	X
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Returnable to both Thomasville and Reno = O
Returnable to Thomasville only = X

Nordfab reserves the right to limit quantities of any returned items



Clamp-Together Ducting
THE WORLD'S FASTEST DUCTING

Don't miss out on all the ways Nordfab can help you market Quick-Fit

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



Product Catalog
Part no. 3610-0400-20000



Technical Manual
Part no. 3610-4500-000000



Clampdown Sheet
Part no. 3610-0400-400000



How to Design a System



Menu of Services



Leak-Free System



Tuff Shield Lining



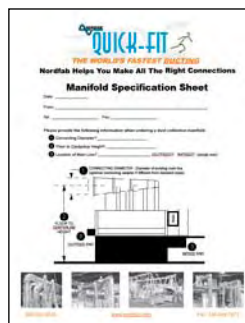
Nordfab Drawing Service



SMACNA Sheet
Part no. 3610-0400-SMACNA



Product Installations



Manifold Spec. Sheet



NordCAD Installation Instructions



Viewing Spool



Back Draft Dampers



Hanging Materials



View our 2 minute Quick-Fit video also available on our website www.ductingsystems.com.