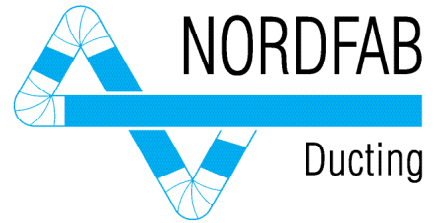


# QF



## Quick-Fit Price Catalog 2016



Made in  
the USA



# Nordfab Ducting

## The World's Fastest Ducting

Nordfab's Quick-Fit™ (QF) 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".

- QF 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 45% 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 QF 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.
- Once your QF ducting is installed, you can quickly and easily take it apart for cleaning or to reconfigure for any floor plan changes.

Quick-Fit is ideal for most dust, mist and fume collection applications.



This catalog contains pricing for Nordfab Quick-Fit ducting in galvanized and 304 stainless steel in diameters from 3" to 24". We can also provide black metal, aluminum, and 316SS, as well as galvaneal. If you are in need of custom fittings for specialized applications, ask your salesperson for availability. Visit [www.nordfab-us.com](http://www.nordfab-us.com) for Technical Data sheets and additional product information.

## Enhanced Production Capabilities



Nordfab currently owns and operates two office and manufacturing facilities in Thomsville, North Carolina, an 80,000 ft<sup>2</sup> facility for manufacturing QF products and a 30,000 ft<sup>2</sup> facility for manufacturing heavier gauge products. More than 140 production, sales, and customer support employees work at our facility. No direct competitor in the industry matches Nordfab's investment in qualified employees, R&D or production technology.

Nordfab is ISO 9001:2015 and ISO 14001:2015 registered, ensuring our dependability, quality, service, delivery, and minimum impact on the environment.

Nordfab is a global manufacturer with facilities in Europe (Scandinavia and the United Kingdom) and Asia as well as the USA.



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Catalog and prices are subject to change without notice  
 General Conditions of Sale apply  
 Product photographs reference only  
 All photos property of Nordfab Ducting

## ◇ Long Lead Items

| PRODUCT CODE                                                    | DIAMETER INCHES | MATERIAL  | SPECIAL USE |
|-----------------------------------------------------------------|-----------------|-----------|-------------|
| 3210-0790-107000                                                |                 |           |             |
|                                                                 | DEGREE          | CL RADIUS |             |
| MATERIAL AVAILABLE: 1- GALVANIZED STEEL, 2- 304 STAINLESS STEEL |                 |           |             |

## Pipe & Clamps



## Branches



## Hoses & Clamps



## Hoods

| Canopy Hood                                                                       | Barrel Hood                                                                       | Router Hood                                                                       | Bell Mouth Hood                                                                   | Radial Armsaw Hood                                                                 | Suction Hood                                                                        | Custom Manifold                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |
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## Diverter Valves

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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
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| PART: 3235 ?<br>Page 31                                                           | PART: 3236 ?<br>Page 31                                                           | PART NO. 3233 (Manual) ?<br>PART NO. 3234 (Auto)<br>Page 32                       |



**Made in the USA**

## Hangers & Installation

| Gripple Hanger                                                                     | Pipe Hanger & Pipe Hanger HJ                                                       | Clamp Hanger                                                                       | Strut Hanger                                                                       | Wall Flashing                                                                       | Roof Flashing                                                                        | Roof Skirt                                                                           |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
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## Accessories

| No-Loss Stackhead                                                                   | Jet Cap                                                                             | Silencer                                                                            | In Line Back Draft Damper                                                           | Vibration Isolator                                                                   | Butterfly Valve                                                                       | Bleed in Valve                                                                        |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |
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## Accessories

| Ball Joint                                                                          | Floor Sweep                                                                         | Suction Nozzle Assembly                                                             | Viewing Spool                                                                       | Sliding Access Panel                                                                 | Oil Mist Recycler                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
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## Special Applications

| Leak-Free Epoxy Caulking                                                            | Leak-Free Gasket                                                                    | Leak-Free O-ring                                                                    | In-line Spark Trap                                                                  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
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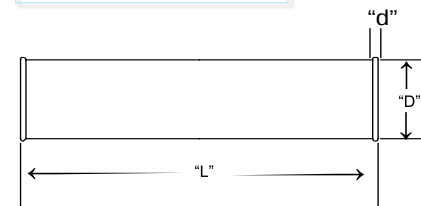
800-532-0830  
www.nordfab.com

## QF Duct Pipe

| Ø in | Part No.  | Ends | ID in | OD in | Gauge Galv | Gauge SS | Roll in | Length in | Price Galv | Price SS   | Weight Galv |
|------|-----------|------|-------|-------|------------|----------|---------|-----------|------------|------------|-------------|
| 3    | 3200-0300 | QF   | 2.90  | 3.00  | 22         | 22       | 0.2     | 59.25     | \$26.40 #  | \$56.70 #  | 4.00        |
| 4    | 3200-0400 |      | 3.86  | 3.93  | 22         | 22       | 0.2     | 59.25     | \$26.40 #  | \$56.70 #  | 5.35        |
| 5    | 3200-0500 |      | 4.87  | 4.94  | 22         | 22       | 0.2     | 59.25     | \$28.90 #  | \$62.30 #  | 6.65        |
| 6    | 3200-0600 |      | 5.89  | 5.96  | 22         | 22       | 0.2     | 59.25     | \$34.80 #  | \$72.30 #  | 7.93        |
| 7    | 3200-0700 |      | 6.89  | 6.96  | 22         | 22       | 0.3     | 59.06     | \$42.60 #  | \$90.50 #  | 11.70       |
| 8    | 3200-0800 |      | 7.88  | 7.95  | 22         | 22       | 0.3     | 59.06     | \$47.90 #  | \$96.40 #  | 13.25       |
| 9    | 3200-0900 |      | 8.88  | 8.95  | 22         | 22       | 0.3     | 59.06     | \$51.80 #  | \$109.80 # | 14.92       |
| 10   | 3200-1000 |      | 9.89  | 9.95  | 22         | 22       | 0.3     | 58.75     | \$55.70 #  | \$120.10 # | 16.60       |
| 11   | 3200-1100 |      | 10.88 | 10.94 | 22         | 22       | 0.3     | 58.75     | \$66.80 #  | \$143.10 # | 18.10       |
| 12   | 3200-1200 |      | 11.97 | 12.04 | 22         | 22       | 0.4     | 58.75     | \$66.80 #  | \$143.10 # | 19.75       |
| 13   | 3200-1300 |      | 12.97 | 13.05 | 20         | 20       | 0.4     | 58.75     | \$86.00 #  | \$182.20 # | 21.40       |
| 14   | 3200-1400 |      | 13.96 | 14.04 | 20         | 20       | 0.4     | 58.75     | \$86.00 #  | \$182.20 # | 27.30       |
| 15   | 3200-1500 |      | 14.97 | 15.04 | 20         | 20       | 0.4     | 58.75     | \$111.70 # | \$223.80 # | 29.25       |
| 16   | 3200-1600 |      | 15.97 | 16.04 | 20         | 20       | 0.4     | 58.75     | \$111.70 # | \$223.80 # | 31.15       |
| 17   | 3200-1700 |      | 16.97 | 17.05 | 20         | 20       | 0.4     | 58.75     | \$123.10 # | \$268.30 # | 33.09       |
| 18   | 3200-1800 |      | 17.96 | 18.04 | 20         | 20       | 0.4     | 58.75     | \$123.10 # | \$268.30 # | 34.00       |
| 20   | 3200-2000 |      | 19.96 | 20.04 | 20         | 20       | 0.4     | 58.75     | \$147.70 # | \$321.40 # | 38.00       |
| 22   | 3200-2200 |      | 21.97 | 22.05 | 20         | 20       | 0.4     | 58.75     | \$163.40 # | \$358.20 # | 42.00       |
| 24   | 3200-2400 |      | 23.94 | 24.02 | 20         | 20       | 0.4     | 58.75     | \$188.00 # | \$411.90 # | 45.82       |



- Laser welded seam and QF rolled ends.

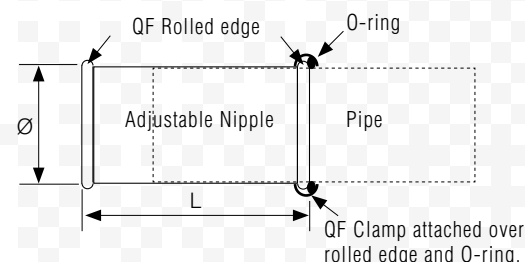


## QF Adjustable Nipple with O-Ring

| Ø in | Part No.  | Ends | ID in | OD in | Length L | Gauge Galv | Gauge SS | Galv. Price | SS 304 Price | Weight Galv |
|------|-----------|------|-------|-------|----------|------------|----------|-------------|--------------|-------------|
| 3    | 3202-0300 | QF   | 3.07  | 3.15  | 11 1/4"  | 22         | 22       | \$16.00 #   | \$36.30 #    | 0.80        |
| 4    | 3202-0400 |      | 3.96  | 4.03  | 11 1/4"  | 22         | 22       | \$16.00 #   | \$36.30 #    | 1.05        |
| 5    | 3202-0500 |      | 4.96  | 5.03  | 11 1/4"  | 22         | 22       | \$16.40 #   | \$37.40 #    | 1.30        |
| 6    | 3202-0600 |      | 5.99  | 6.06  | 11 1/4"  | 22         | 22       | \$16.80 #   | \$39.40 #    | 1.60        |
| 7    | 3202-0700 |      | 7.00  | 7.07  | 11 1/8"  | 22         | 22       | \$20.20 #   | \$46.30 #    | 2.40        |
| 8    | 3202-0800 |      | 8.00  | 8.06  | 11"      | 22         | 22       | \$20.60 #   | \$47.30 #    | 2.70        |
| 9    | 3202-0900 |      | 9.00  | 9.06  | 11"      | 22         | 22       | \$21.70 #   | \$49.10 #    | 3.05        |
| 10   | 3202-1000 |      | 10.00 | 10.07 | 10 7/8"  | 22         | 22       | \$22.00 #   | \$51.10 #    | 3.40        |
| 11   | 3202-1100 |      | 11.12 | 11.19 | 10 5/8"  | 22         | 22       | \$25.20 #   | \$58.80 #    | 3.80        |
| 12   | 3202-1200 |      | 12.11 | 12.17 | 10 5/8"  | 22         | 22       | \$25.20 #   | \$58.80 #    | 4.20        |
| 13   | 3202-1300 |      | 13.12 | 13.20 | 10 5/8"  | 20         | 20       | \$34.20 #   | \$80.00 #    | 4.70        |
| 14   | 3202-1400 |      | 14.10 | 14.18 | 10 5/8"  | 20         | 20       | \$34.20 #   | \$80.00 #    | 5.85        |
| 15   | 3202-1500 |      | 15.12 | 15.20 | 10 5/8"  | 20         | 20       | \$39.20 #   | \$92.30 #    | 6.25        |
| 16   | 3202-1600 |      | 16.10 | 16.18 | 10 5/8"  | 20         | 20       | \$39.20 #   | \$92.30 #    | 6.65        |
| 17   | 3202-1700 |      | 17.07 | 17.15 | 10 5/8"  | 20         | 20       | \$45.80 #   | \$105.70 #   | 7.05        |
| 18   | 3202-1800 |      | 18.10 | 18.18 | 10 5/8"  | 20         | 20       | \$45.80 #   | \$105.70 #   | 7.45        |
| 20   | 3202-2000 |      | 20.10 | 20.18 | 10 5/8"  | 20         | 20       | \$56.10 #   | \$129.00 #   | 8.10        |
| 22   | 3202-2200 |      | 22.11 | 22.19 | 10 5/8"  | 20         | 20       | \$66.40 #   | \$152.10 #   | 8.80        |
| 24   | 3202-2400 |      | 24.06 | 24.14 | 10 5/8"  | 20         | 20       | \$76.30 #   | \$175.00 #   | 9.70        |

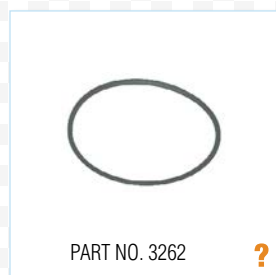


- Used to provide variable length adjustment of QF System. Black O-ring included standard.
- Specify Red O-ring (high temp rating) if needed (additional cost).
- Laser welded.

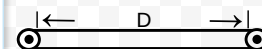


## QF O-Ring

| Ø in | Black Buna-N<br>3262-XX00-000000<br>Price | Red Silicone<br>3262-XX00-000005<br>Price | Weight |
|------|-------------------------------------------|-------------------------------------------|--------|
| 3    | \$2.20 #                                  | \$4.40 #                                  | 0.01   |
| 4    | \$2.20 #                                  | \$4.40 #                                  | 0.02   |
| 5    | \$2.20 #                                  | \$4.40 #                                  | 0.03   |
| 6    | \$2.20 #                                  | \$4.40 #                                  | 0.04   |
| 7    | \$3.40 #                                  | \$7.20 #                                  | 0.08   |
| 8    | \$3.40 #                                  | \$7.20 #                                  | 0.09   |
| 9    | \$3.40 #                                  | \$7.20 #                                  | 0.10   |
| 10   | \$3.40 #                                  | \$7.20 #                                  | 0.11   |
| 11   | \$3.40 #                                  | \$7.20 #                                  | 0.17   |
| 12   | \$3.40 #                                  | \$7.20 #                                  | 0.22   |
| 13   | \$5.60 #                                  | \$11.80 #                                 | 0.23   |
| 14   | \$5.60 #                                  | \$11.80 #                                 | 0.25   |
| 15   | \$5.60 #                                  | \$11.80 #                                 | 0.26   |
| 16   | \$5.60 #                                  | \$11.80 #                                 | 0.27   |
| 17   | \$5.60 #                                  | \$11.80 #                                 | 0.28   |
| 18   | \$5.60 #                                  | \$11.80 #                                 | 0.29   |
| 20   | \$5.60 #                                  | \$11.80 #                                 | 0.31   |
| 22   | \$5.60 #                                  | \$11.80 #                                 | 0.36   |
| 24   | \$5.60 #                                  | \$11.80 #                                 | 0.40   |



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



#-Denotes an item that is returnable. See page 51 for a full listing of returnable items.

## Quick-Fit™ Clamp with Pin

| Ø<br>in       | QF Clamps with Nitrile<br>Seals<br>3260-XX00-X00900 |        |                                     |        | QF Clamps with<br>Silicone Seals<br>3260-XX00-X00904 |        |                   |   | QF Clamps with<br>ePTFE Seals<br>3260-XX00-X00905 |   |                   |   | Weight<br>Galv |
|---------------|-----------------------------------------------------|--------|-------------------------------------|--------|------------------------------------------------------|--------|-------------------|---|---------------------------------------------------|---|-------------------|---|----------------|
|               | Galv. Price                                         |        | SS 304<br>Price ⚡                   |        | Galv. Price                                          |        | SS 304<br>Price ⚡ |   | Galv. Price                                       |   | SS 304<br>Price ⚡ |   |                |
|               |                                                     |        |                                     |        |                                                      |        |                   |   |                                                   |   |                   |   |                |
| 3             | \$8.30                                              | #      | \$17.90                             | #      | \$10.40                                              | #      | \$22.40           | # | \$17.40                                           | # | \$26.40           | # | 0.15           |
| 4             | \$9.00                                              | #      | \$17.90                             | #      | \$11.30                                              | #      | \$22.40           | # | \$17.40                                           | # | \$26.40           | # | 0.20           |
| 5             | \$9.50                                              | #      | \$19.20                             | #      | \$11.90                                              | #      | \$24.00           | # | \$18.60                                           | # | \$29.40           | # | 0.22           |
| 6             | \$9.90                                              | #      | \$20.40                             | #      | \$12.40                                              | #      | \$25.50           | # | \$19.90                                           | # | \$30.90           | # | 0.25           |
| 7             | \$10.40                                             | #      | \$21.60                             | #      | \$13.00                                              | #      | \$27.00           | # | \$23.80                                           | # | \$33.50           | # | 0.45           |
| 8             | \$10.70                                             | #      | \$22.90                             | #      | \$13.40                                              | #      | \$28.70           | # | \$25.00                                           | # | \$38.50           | # | 0.50           |
| 9             | \$11.10                                             | #      | \$24.00                             | #      | \$13.90                                              | #      | \$30.00           | # | \$26.40                                           | # | \$39.30           | # | 0.55           |
| 10            | \$12.10                                             | #      | \$25.20                             | #      | \$15.20                                              | #      | \$31.50           | # | \$29.10                                           | # | \$41.30           | # | 0.55           |
| 11            | \$13.10                                             | #      | \$28.00                             | #      | \$16.40                                              | #      | \$35.00           | # | \$33.60                                           | # | \$58.00           | # | 0.75           |
| 12            | \$13.10                                             | #      | \$28.00                             | #      | \$16.40                                              | #      | \$35.00           | # | \$33.60                                           | # | \$58.00           | # | 1.10           |
| 13            | \$14.30                                             | #      | \$31.60                             | #      | \$17.90                                              | #      | \$39.50           | # | \$36.10                                           | # | \$59.60           | # | 1.15           |
| 14            | \$14.30                                             | #      | \$31.60                             | #      | \$17.90                                              | #      | \$39.50           | # | \$36.10                                           | # | \$59.60           | # | 1.20           |
| 15            | \$15.70                                             | #      | \$35.60                             | #      | \$19.70                                              | #      | \$44.50           | # | \$38.60                                           | # | \$61.40           | # | 1.30           |
| 16            | \$15.70                                             | #      | \$35.60                             | #      | \$19.70                                              | #      | \$44.50           | # | \$38.60                                           | # | \$61.40           | # | 1.35           |
| 17            | \$16.40                                             | #      | \$36.80                             | #      | \$20.50                                              | #      | \$46.00           | # | \$40.80                                           | # | \$63.10           | # | 1.40           |
| 18            | \$16.40                                             | #      | \$36.80                             | #      | \$20.50                                              | #      | \$46.00           | # | \$40.80                                           | # | \$63.10           | # | 1.55           |
| 20            | \$17.00                                             | #      | \$38.10                             | #      | \$21.30                                              | #      | \$47.70           | # | \$43.70                                           | # | \$65.00           | # | 1.60           |
| 22            | \$17.90                                             | #      | \$39.30                             | #      | \$22.40                                              | #      | \$49.20           | # | \$45.80                                           | # | \$66.70           | # | 1.80           |
| 24            | \$20.60                                             | #      | \$45.20                             | #      | \$25.80                                              | #      | \$56.50           | # | \$52.70                                           | # | \$76.70           | # | 2.00           |
| Ø<br>in       | Nitrile                                             |        | Silicone                            |        | ePTFE                                                |        |                   |   |                                                   |   |                   |   |                |
|               | Part No. & Price                                    |        | Part No. & Price                    |        | Part No. & Price                                     |        |                   |   |                                                   |   |                   |   |                |
| 3 - 6         | 3260-0375-SP3000<br>\$0.20 per foot                 |        | 3260-0375-HT3000<br>\$.80 per foot  |        | 3260-0000-SG3000<br>\$1.40 per foot                  |        | 0.01              |   |                                                   |   |                   |   |                |
| 7 - 11        | 3260-0500-SP4000<br>\$0.30 per foot                 |        | 3260-0500-HT4000<br>\$.90 per foot  |        | 3260-0000-SG4000<br>\$1.90 per foot                  |        | 0.02              |   |                                                   |   |                   |   |                |
| 12 - 24       | 3260-0650-SP5000<br>\$0.40 per foot                 |        | 3260-0650-HT5000<br>\$1.00 per foot |        | 3260-0000-SG.650<br>\$2.30 per foot                  |        | 0.02              |   |                                                   |   |                   |   |                |
| LARGE<br>PINS | Additional Bridge Pins                              |        |                                     |        |                                                      |        |                   |   |                                                   |   |                   |   |                |
|               | 3260-0150-100000                                    |        |                                     |        |                                                      |        |                   |   |                                                   |   |                   |   |                |
|               | \$0.50                                              | \$1.30 | \$0.50                              | \$1.30 | \$0.50                                               | \$1.30 | (10) .33          |   |                                                   |   |                   |   |                |
| SMALL<br>PINS | 3260-0200-100000                                    |        |                                     |        |                                                      |        |                   |   |                                                   |   |                   |   |                |
|               | \$0.20                                              | \$0.50 | \$0.20                              | \$0.50 | \$0.20                                               | \$0.50 | (10) .11          |   |                                                   |   |                   |   |                |



**New!**  
**Silicone**  
**seals**

- QF Clamps come standard from factory with Nitrile seals. Silicone or ePTFE seals are optional - specify when ordering. Clamps also may be ordered optionally without seals.
- Galvanized clamp supplied with galvanized bridge pin. SS clamp supplied with SS bridge pin.
- 3" to 6" QF Clamps: Small bridge pin with 3/8" wide seal from factory.
- 7" to 11" QF Clamps: Large bridge pin with 1/2" wide seal from factory.
- 12" to 24" QF Clamps: Large bridge pin with 5/8" wide seal from factory.
- Nitrile and Silicone seals stocked in rolls of 50'. ePTFE seals stocked in rolls of 100'.



## What is the best seal for my application?

**Nitrile** seals are inserted into QF Clamps as standard. Rated for max. intermittent service temperatures of 194° and continuous 158° F, there is no additional charge for nitrile so it is the most economical choice.

**Silicone** seals are an economically priced option for operating temperatures above 158° F. Rated for max. service temperature of 400° F, silicone has an extremely broad temperature range capability as it is also very good in low temperatures, remaining flexible at -60° F. Additionally, silicone offers superb resistance to weather aging and ozone.

**ePTFE** seals are not degraded by any common chemicals (0 - 14 pH range) FOR INDUSTRIAL USE ONLY. Not for use in food, drug, cosmetic or medical device manufacturing, processing, or packaging operations. Max. temperature rating of 600° F.

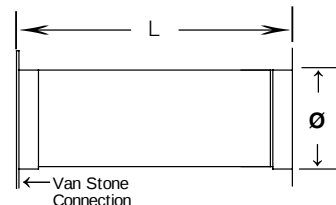
#-Denotes an item that is returnable. See page 51 for a full listing of returnable items.

## QF Flanged Duct Pipe

| Ø in | Part No.  | Ends   | Gauge Galv | Gauge SS | Length | Price Galv | Price SS   | Weight Galv |
|------|-----------|--------|------------|----------|--------|------------|------------|-------------|
| 3    | 3201-0300 | FLANGE | 22         | 18       | 59.25" | \$48.80    | \$162.60   | 6.00        |
| 4    | 3201-0400 |        | 22         | 22       | 59.50" | \$65.70    | \$162.60   | 10.75       |
| 5    | 3201-0500 |        | 20         | 22       | 78"    | \$66.20    | \$194.50   | 20.00       |
| 6    | 3201-0600 |        | 20         | 22       | 78"    | \$72.90    | \$199.30   | 22.00       |
| 7    | 3201-0700 |        | 20         | 22       | 78"    | \$82.10    | \$233.40   | 21.56       |
| 8    | 3201-0800 |        | 20         | 22       | 78"    | \$91.20    | \$235.70   | 24.00       |
| 9    | 3201-0900 |        | 20         | 22       | 78"    | \$94.80    | \$236.70   | 28.08       |
| 10   | 3201-1000 |        | 20         | 22       | 78"    | \$109.50   | \$266.90   | 32.00       |
| 11   | 3201-1100 |        | 20         | 22       | 78"    | \$127.60   | \$316.60   | 38.00       |
| 12   | 3201-1200 |        | 20         | 20       | 78"    | \$127.60   | \$316.60   | 41.00       |
| 13   | 3201-1300 |        | 20         | 20       | 78"    | \$140.40   | \$356.70   | 43.00       |
| 14   | 3201-1400 |        | 20         | 20       | 78"    | \$140.40   | \$356.70   | 46.00       |
| 15   | 3201-1500 |        | 20         | 20       | 78"    | \$173.30   | \$408.10   | 50.00       |
| 16   | 3201-1600 |        | 20         | 20       | 78"    | \$173.30   | \$408.10   | 56.00       |
| 17   | 3201-1700 |        | 20         | 20       | 78"    | \$182.40   | \$567.10   | 60.00       |
| 18   | 3201-1800 |        | 20         | 20       | 78"    | \$182.40   | \$567.10   | 64.00       |
| 20   | 3201-2000 |        | 20         | 20       | 78"    | \$227.80   | \$567.80   | 69.72       |
| 22   | 3201-2200 |        | 20         | 20       | 78"    | \$255.20   | \$614.00   | 77.16       |
| 24   | 3201-2400 |        | 20         | 20       | 78"    | \$264.50   | \$706.80   | 84.00       |
| 26   | 3201-2600 |        | 20         | 20       | 78"    | \$277.20   | \$849.60   | 98.56       |
| 28   | 3201-2800 |        | 20         | 20       | 78"    | \$300.90   | \$855.50   | 118.00      |
| 30   | 3201-3000 |        | 18         | 20       | 78"    | \$346.40   | \$934.40   | 137.05      |
| 32   | 3201-3200 |        | 18         | 20       | 78"    | \$361.10   | \$941.70   | 145.94      |
| 34   | 3201-3400 |        | 18         | 20       | 78"    | \$401.20   | \$946.60   | 154.83      |
| 36   | 3201-3600 |        | 18         | 20       | 78"    | \$428.50   | \$1,007.20 | 162.76      |
| 38   | 3201-3800 |        | 18         | 20       | 78"    | \$474.10   | \$1,111.30 | 173.47      |
| 40   | 3201-4000 |        | 18         | 20       | 78"    | \$547.10   | \$1,242.70 | 182.81      |



- Use this duct system for sizes over 24" dia.
- Longitudinal lockformed seam, galvanized or stainless steel, angle flange attached by vanstone lip.
- Pipe in diameters 3" - 24" can be laser weld seam if ordered in 5' sections. Pricing is same as shown for flanged pipe.

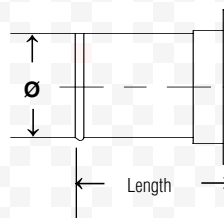


## QF Angle Flange Adapter

| Ø in | Part No.  | Approx. Length in | Gauge | Galv Price | SS 304 Price | Weight Galv |
|------|-----------|-------------------|-------|------------|--------------|-------------|
| 3    | 3250-0300 | 5                 | 22    | \$41.90 #  | \$74.10      | 1.40        |
| 4    | 3250-0400 | 3.5               | 22    | \$41.90 #  | \$74.10      | 1.70        |
| 5    | 3250-0500 | 3.5               | 22    | \$44.10 #  | \$82.40      | 2.15        |
| 6    | 3250-0600 | 3.5               | 22    | \$52.70 #  | \$92.20      | 2.55        |
| 7    | 3250-0700 | 3.5               | 22    | \$56.90 #  | \$99.10      | 3.10        |
| 8    | 3250-0800 | 3.5               | 22    | \$59.30 #  | \$104.20     | 3.15        |
| 9    | 3250-0900 | 3.5               | 22    | \$66.40    | \$106.70     | 3.25        |
| 10   | 3250-1000 | 3.5               | 22    | \$69.90    | \$111.00     | 5.00        |
| 11   | 3250-1100 | 3.5               | 22    | \$77.50    | \$116.30     | 5.60        |
| 12   | 3250-1200 | 3.5               | 22    | \$77.50    | \$116.30     | 6.15        |
| 13   | 3250-1300 | 5                 | 20    | \$80.80    | \$125.70     | 7.02        |
| 14   | 3250-1400 | 5                 | 20    | \$80.80    | \$125.70     | 7.70        |
| 15   | 3250-1500 | 5                 | 20    | \$87.90    | \$135.90     | 9.25        |
| 16   | 3250-1600 | 5                 | 20    | \$87.90    | \$135.90     | 11.05       |
| 17   | 3250-1700 | 5                 | 20    | \$95.30    | \$169.20     | 12.90       |
| 18   | 3250-1800 | 5                 | 20    | \$95.30    | \$169.20     | 15.20       |
| 20   | 3250-2000 | 5                 | 20    | \$101.40   | \$180.20     | 19.15       |
| 22   | 3250-2200 | 5                 | 20    | \$108.50   | \$193.90     | 26.05       |
| 24   | 3250-2400 | 5                 | 20    | \$124.70   | \$223.00     | 30.00       |



- Angle Flange standard.
- Flat Flange: Specify hole pattern. (Cost same as Angle Flange).
- Specify angle (ANGFL) or flat flange (FFL).
- If no hole pattern drawing provided, flat flange will be blank.



\*Published lengths are nominal and may vary slightly.

◇ Items may take longer than standard lead times.

#-Denotes an item that is returnable. See page 51 for a full listing of returnable items.

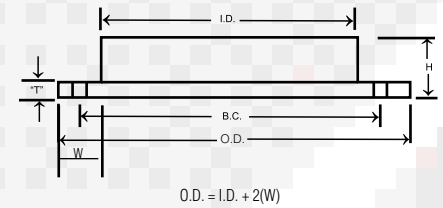
## Angle Flange

| Ø in | Part No.  | ID in  | OD in  | H in   | W in  | T in | B.C.     | No. of Bolts | Ø of Bolt Holes | Galv Price | SS 304 Price | Weight |
|------|-----------|--------|--------|--------|-------|------|----------|--------------|-----------------|------------|--------------|--------|
| 3    | 3261-0300 | 3 1/16 | 4.9375 | 15/16  | 15/16 | 1/8  | 4 5/16   | 6            | 9/32            | \$8.90     | \$41.50      | 0.70   |
| 4    | 3261-0400 | 4 1/16 | 6.0625 | 15/16  | 1     | 1/8  | 5 5/16   | 6            | 9/32            | \$8.90     | \$41.50      | 0.85   |
| 5    | 3261-0500 | 5 1/16 | 7.0625 | 1 1/16 | 1     | 1/8  | 6 5/16   | 6            | 9/32            | \$9.70     | \$44.10      | 1.18   |
| 6    | 3261-0600 | 6 3/32 | 8.0938 | 1      | 1     | 1/8  | 7 5/16   | 6            | 9/32            | \$12.20    | \$46.30      | 1.38   |
| 7    | 3261-0700 | 7 1/8  | 9.375  | 1      | 1 1/8 | 1/8  | 8 1/2    | 6            | 3/8             | \$13.00    | \$49.70      | 1.73   |
| 8    | 3261-0800 | 8 1/8  | 10.375 | 1 1/8  | 1 1/8 | 1/8  | 9 9/16   | 6            | 3/8             | \$16.10    | \$51.20      | 1.90   |
| 9    | 3261-0900 | 9 1/8  | 11.625 | 1 1/4  | 1 1/4 | 1/8  | 10 5/8   | 6            | 7/16            | \$17.90    | \$51.30      | 2.55   |
| 10   | 3261-1000 | 10 1/8 | 12.875 | 1 1/4  | 1 3/8 | 1/8  | 11 13/16 | 6            | 7/16            | \$21.30    | \$52.70      | 3.05   |
| 11   | 3261-1100 | 11 1/8 | 14.125 | 1 1/4  | 1 1/2 | 1/8  | 12 3/4   | 6            | 7/16            | \$27.90    | \$55.30      | 3.25   |
| 12   | 3261-1200 | 12 1/8 | 15.125 | 1 1/2  | 1 1/2 | 1/8  | 14       | 8            | 7/16            | \$27.90    | \$55.30      | 3.88   |
| 13   | 3261-1300 | 13 1/8 | 16.125 | 1 1/2  | 1 1/2 | 1/8  | 15       | 8            | 7/16            | \$34.60    | \$58.30      | 4.25   |
| 14   | 3261-1400 | 14 1/8 | 17.125 | 1 1/2  | 1 1/2 | 1/8  | 16       | 8            | 7/16            | \$34.60    | \$58.30      | 4.75   |
| 15   | 3261-1500 | 15 1/8 | 18.125 | 1 1/2  | 1 1/2 | 3/16 | 17       | 8            | 7/16            | \$47.20    | \$70.20      | 7.25   |
| 16   | 3261-1600 | 16 1/8 | 19.125 | 1 1/2  | 1 1/2 | 3/16 | 18       | 8            | 7/16            | \$47.20    | \$70.20      | 8.00   |
| 17   | 3261-1700 | 17 1/8 | 20.125 | 1 1/2  | 1 1/2 | 3/16 | 19       | 8            | 7/16            | \$49.90    | \$92.40      | 8.25   |
| 18   | 3261-1800 | 18 1/8 | 21.125 | 1 1/2  | 1 1/2 | 3/16 | 20       | 8            | 7/16            | \$49.90    | \$92.40      | 8.50   |
| 19   | 3261-1900 | 19 1/8 | 22.125 | 1 1/2  | 1 1/2 | 3/16 | 20 3/4   | 12           | 7/16            | \$52.40    | \$100.20     | 8.75   |
| 20   | 3261-2000 | 20 1/8 | 23.125 | 1 1/2  | 1 1/2 | 3/16 | 21 3/4   | 12           | 7/16            | \$52.40    | \$100.20     | 9.50   |
| 21   | 3261-2100 | 21 1/8 | 24.125 | 1 1/2  | 1 1/2 | 3/16 | 22 3/4   | 12           | 7/16            | \$58.30    | \$110.50     | 10.25  |
| 22   | 3261-2200 | 22 1/8 | 25.125 | 1 1/2  | 1 1/2 | 3/16 | 23 3/4   | 12           | 7/16            | \$58.30    | \$110.50     | 10.75  |
| 23   | 3261-2300 | 23 1/8 | 26.125 | 1 1/2  | 1 1/2 | 3/16 | 24 7/8   | 12           | 7/16            | \$62.60    | \$129.40     | 11.25  |
| 24   | 3261-2400 | 24 1/8 | 27.125 | 1 1/2  | 1 1/2 | 3/16 | 25 7/8   | 12           | 7/16            | \$62.60    | \$129.40     | 11.50  |
| 25   | 3261-2500 | 25 1/8 | 28.125 | 1 1/2  | 1 1/2 | 3/16 | 26 7/8   | 16           | 7/16            | \$87.10    | \$173.40     | 12.00  |
| 26   | 3261-2600 | 26 1/8 | 30.125 | 2      | 2     | 3/16 | 28 3/8   | 16           | 7/16            | \$87.10    | \$173.40     | 16.75  |
| 27   | 3261-2700 | 27 1/8 | 31.125 | 2      | 2     | 3/16 | 29 3/8   | 16           | 7/16            | \$96.00    | \$176.10     | 17.38  |
| 28   | 3261-2800 | 28 1/8 | 32.125 | 2      | 2     | 3/16 | 30 3/8   | 16           | 7/16            | \$96.00    | \$176.10     | 18.00  |
| 29   | 3261-2900 | 29 1/8 | 33.125 | 2      | 2     | 3/16 | 31 3/8   | 16           | 7/16            | \$105.10   | \$179.10     | 18.75  |
| 30   | 3261-3000 | 30 1/8 | 34.125 | 2      | 2     | 3/16 | 32 3/8   | 16           | 7/16            | \$105.10   | \$179.10     | 19.50  |
| 31   | 3261-3100 | 31 1/8 | 35.125 | 2      | 2     | 3/16 | 33 3/8   | 16           | 7/16            | \$110.30   | \$182.80     | 20.38  |
| 32   | 3261-3200 | 32 1/8 | 36.125 | 2      | 2     | 3/16 | 34 3/8   | 16           | 7/16            | \$110.30   | \$182.80     | 20.75  |
| 33   | 3261-3300 | 33 1/8 | 37.125 | 2      | 2     | 3/16 | 35 3/8   | 16           | 7/16            | \$119.20   | \$185.10     | 21.25  |
| 34   | 3261-3400 | 34 1/8 | 38.125 | 2      | 2     | 3/16 | 36 3/8   | 16           | 7/16            | \$119.20   | \$185.10     | 22.00  |
| 35   | 3261-3500 | 35 1/8 | 39.125 | 2      | 2     | 3/16 | 37 3/8   | 16           | 7/16            | \$122.80   | \$188.60     | 22.50  |
| 36   | 3261-3600 | 36 1/8 | 40.125 | 2      | 2     | 3/16 | 38 3/8   | 16           | 7/16            | \$122.80   | \$188.60     | 23.00  |
| 37   | 3261-3700 | 37 1/8 | 41.125 | 2      | 2     | 3/16 | 39 3/8   | 24           | 7/16            | \$124.60   | \$225.50     | 23.75  |
| 38   | 3261-3800 | 38 1/8 | 42.125 | 2      | 2     | 3/16 | 40 3/8   | 24           | 7/16            | \$124.60   | \$225.50     | 24.50  |
| 39   | 3261-3900 | 39 1/8 | 43.125 | 2      | 2     | 3/16 | 41 3/8   | 24           | 7/16            | \$133.50   | \$251.50     | 25.00  |
| 40   | 3261-4000 | 40 1/8 | 44.125 | 2      | 2     | 3/16 | 42 3/8   | 24           | 7/16            | \$133.50   | \$251.50     | 25.75  |

NOTE: Other drill patterns available in flat flanges. ANSI Flange patterns are charged double the standard. Call for pricing on other options.



- Galvanized or stainless steel. (Specify if SS.)



## Angle Flange Gasket

| Ø in  | Nitrile<br>3263-XX00-000000<br>Price | Silicone<br>3263-XX00-000005<br>Price |
|-------|--------------------------------------|---------------------------------------|
| 3 *   | \$2.90                               | \$4.40                                |
| 4     | \$3.90                               | \$5.90                                |
| 5 *   | \$4.90                               | \$7.40                                |
| 6     | \$6.10                               | \$9.20                                |
| 7 *   | \$8.80                               | \$13.20                               |
| 8     | \$9.50                               | \$14.30                               |
| 9 *   | \$10.50                              | \$15.80                               |
| 10    | \$15.00                              | \$22.50                               |
| 11 ** | \$16.30                              | \$24.50                               |
| 12    | \$17.30                              | \$26.00                               |
| 13 ** | \$20.50                              | \$30.80                               |
| 14 *  | \$21.60                              | \$32.40                               |
| 15 ** | \$30.30                              | \$45.50                               |
| 16 *  | \$31.80                              | \$47.70                               |
| 17 ** | \$33.50                              | \$50.30                               |
| 18 *  | \$36.10                              | \$54.20                               |
| 19 ** | \$37.70                              | \$56.60                               |
| 20 *  | \$39.20                              | \$58.80                               |
| 21 ** | \$59.80                              | \$89.70                               |
| 22 *  | \$62.20                              | \$93.30                               |
| 23 ** | \$64.60                              | \$96.90                               |
| 24 *  | \$69.10                              | \$103.70                              |
| 25 ** | \$71.50                              | \$107.30                              |
| 26 ** | \$76.10                              | \$114.20                              |
| 27 ** | \$78.60                              | \$117.90                              |
| 28 ** | \$84.20                              | \$126.30                              |
| 29 ** | \$84.20                              | \$126.30                              |
| 30 ** | \$85.60                              | \$128.40                              |
| 31 ** | \$88.00                              | \$132.00                              |
| 32 ** | \$119.70                             | \$179.60                              |
| 33 ** | \$122.90                             | \$184.40                              |
| 34 ** | \$126.10                             | \$189.20                              |
| 35 ** | \$129.20                             | \$193.80                              |
| 36 ** | \$132.40                             | \$198.60                              |
| 37 ** | \$135.50                             | \$203.30                              |
| 38 ** | \$138.70                             | \$208.10                              |
| 39 ** | \$141.80                             | \$212.70                              |
| 40 ** | \$145.00                             | \$217.50                              |

\* Silicone Flange 5 - 7 days lead time

\*\* Both Nitrile and Silicone are 5 - 7 days lead time



**New!  
Silicone  
gaskets**

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

NOTE: Gasket dimensions match Angle Flange dimensions shown above.



PART NO. 3200-XX18

304SS Not Available

- Laser welded seam and rolled ends.



PART NO. 3200-XXHG

304SS Not Available

- Laser welded seam and rolled ends.

## QF Pipe 18ga

| Ø in | Part No.         | Gauge Galv | Length   | Price    | Weight (Galv) |
|------|------------------|------------|----------|----------|---------------|
| 4    | 3200-0418-100000 | 18         | 59.25"   | \$34.30  | 8.56          |
| 5    | 3200-0518-100000 |            | 59.25"   | \$37.60  | 10.64         |
| 6    | 3200-0618-100000 |            | 59.25"   | \$45.20  | 12.69         |
| 7    | 3200-0718-100000 |            | 59.0625" | \$55.40  | 18.72         |
| 8    | 3200-0818-100000 |            | 59.0625" | \$62.30  | 21.20         |
| 9    | 3200-0918-100000 |            | 59.0625" | \$67.50  | 23.87         |
| 10   | 3200-1018-100000 |            | 58.75"   | \$72.50  | 26.56         |
| 11   | 3200-1118-100000 |            | 58.75"   | \$86.90  | 28.96         |
| 12   | 3200-1218-100000 |            | 58.75"   | \$86.90  | 31.60         |
| 13   | 3200-1318-100000 |            | 58.75"   | \$111.90 | 28.46         |
| 14   | 3200-1418-100000 |            | 58.75"   | \$111.90 | 36.31         |
| 15   | 3200-1518-100000 |            | 58.75"   | \$145.10 | 38.90         |
| 16   | 3200-1618-100000 |            | 58.75"   | \$145.10 | 41.43         |
| 17   | 3200-1718-100000 |            | 58.75"   | \$160.00 | 44.01         |
| 18   | 3200-1818-100000 |            | 58.75"   | \$160.00 | 45.22         |
| 20   | 3200-2018-100000 |            | 58.75"   | \$192.10 | 50.54         |
| 22   | 3200-2218-100000 |            | 58.75"   | \$212.40 | 55.86         |
| 24   | 3200-2418-100000 |            | 58.75"   | \$244.40 | 60.94         |

## QF Pipe 16ga

| Ø in | Part No.         | Gauge Galv | Length   | Price    | Weight Galv |
|------|------------------|------------|----------|----------|-------------|
| 8    | 3200-08HG-100000 | 16         | 59.0625" | \$67.10  | 26.50       |
| 9    | 3200-09HG-100000 |            | 59.0625" | \$72.50  | 29.84       |
| 10   | 3200-10HG-100000 |            | 58.75"   | \$78.20  | 33.20       |
| 12   | 3200-12HG-100000 |            | 58.75"   | \$93.50  | 39.50       |
| 14   | 3200-14HG-100000 |            | 58.75"   | \$120.50 | 45.51       |
| 16   | 3200-16HG-100000 |            | 58.75"   | \$156.30 | 51.93       |
| 18   | 3200-18HG-100000 |            | 58.75"   | \$172.30 | 56.68       |
| 20   | 3200-20HG-100000 |            | 58.75"   | \$206.60 | 63.35       |
| 22   | 3200-22HG-100000 |            | 58.75"   | \$228.90 | 70.01       |
| 24   | 3200-24HG-100000 |            | 58.75"   | \$263.30 | 76.38       |



PART NO. 3202-XX18

304SS Not Available

- Used to provide variable length adjustment of QF System. Black O-ring included.
- Specify Red O-ring if needed (additional cost).
- Laser welded.



PART NO. 3201-XXHG

304SS Not Available

- Assembly includes cut pipe, clamp, and adjustable nipple with black O-ring.
- Specify Red O-ring if needed (additional cost).

## QF Adjustable Nipple 18ga

| Ø in | Part No.         | Gauge Galv | Length  | Price   | Weight Galv |
|------|------------------|------------|---------|---------|-------------|
| 4    | 3202-0418-100000 | 18         | 11 3/8" | \$20.70 | 1.68        |
| 5    | 3202-0518-100000 |            | 11 3/8" | \$21.30 | 2.08        |
| 6    | 3202-0618-100000 |            | 11 3/8" | \$21.80 | 2.56        |
| 7    | 3202-0718-100000 |            | 11 1/8" | \$26.40 | 3.84        |
| 8    | 3202-0818-100000 |            | 11 1/8" | \$26.70 | 4.32        |
| 9    | 3202-0918-100000 |            | 11 1/8" | \$28.20 | 4.88        |
| 10   | 3202-1018-100000 |            | 11 1/8" | \$28.60 | 5.44        |
| 11   | 3202-1118-100000 |            | 10 7/8" | \$32.90 | 6.08        |
| 12   | 3202-1218-100000 |            | 10 7/8" | \$32.90 | 6.72        |
| 13   | 3202-1318-100000 |            | 10 7/8" | \$44.50 | 6.25        |
| 14   | 3202-1418-100000 |            | 10 7/8" | \$44.50 | 7.78        |
| 15   | 3202-1518-100000 |            | 10 7/8" | \$51.00 | 8.31        |
| 16   | 3202-1618-100000 |            | 10 7/8" | \$51.00 | 8.84        |
| 17   | 3202-1718-100000 |            | 10 7/8" | \$59.50 | 9.38        |
| 18   | 3202-1818-100000 |            | 10 7/8" | \$59.50 | 9.91        |
| 20   | 3202-2018-100000 |            | 10 7/8" | \$72.90 | 10.77       |
| 22   | 3202-2218-100000 |            | 10 7/8" | \$86.40 | 11.70       |
| 24   | 3202-2418-100000 |            | 10 7/8" | \$99.30 | 12.90       |

## QF Nipple Assembly 16ga

| Ø in | Part No.         | Gauge Galv | Length | Price Galv | Weight Galv |
|------|------------------|------------|--------|------------|-------------|
| 8    | 3201-08HG-100000 | 16         | 60"    | \$109.30   | 53          |
| 9    | 3201-09HG-100000 |            |        | \$119.20   | 55          |
| 10   | 3201-10HG-100000 |            |        | \$131.70   | 56          |
| 12   | 3201-12HG-100000 |            |        | \$159.50   | 60          |
| 14   | 3201-14HG-100000 |            |        | \$206.80   | 68          |
| 16   | 3201-16HG-100000 |            |        | \$270.30   | 72          |
| 18   | 3201-18HG-100000 |            |        | \$295.00   | 78          |
| 20   | 3201-20HG-100000 |            |        | \$339.60   | 84          |
| 22   | 3201-22HG-100000 |            |        | \$378.70   | 90          |
| 24   | 3201-24HG-100000 |            |        | \$426.80   | 98          |

# QF Elbows

| Ø<br>in   | Part No.  | Ends | CLR  | Style<br>GALV | SS | Gauge<br>Galv | SS | TANGENTS<br>GALV | SS    | Galv<br>Price | SS 304<br>Price | Weight<br>Galv |
|-----------|-----------|------|------|---------------|----|---------------|----|------------------|-------|---------------|-----------------|----------------|
| 90 Degree |           |      |      |               |    |               |    |                  |       |               |                 |                |
| 3         | 3210-0390 | QF   | 1.0* | P             | T  | 24            | 14 | 2.25"            | 2.00" | \$38.70       | TUBED           | 0.90           |
| 4         | 3210-0490 |      | 1.0* | P             | T  | 24            | 14 | 1.32"            | 2.00" | \$47.70 #     | TUBED           | 1.00           |
| 5         | 3210-0590 |      | 1.0* | P             | T  | 24            | 14 | 1.32"            | 2.00" | \$52.90 #     | TUBED           | 1.20           |
| 6         | 3210-0690 |      | 1.0* | P             | T  | 24            | 14 | 1.32"            | 2.00" | \$59.50 #     | TUBED           | 1.50           |
| 7         | 3210-0790 |      | 1.0* | P             | S  | 24            | 22 | 1.32"            | 2.25" | \$79.40 #     | \$247.60        | 2.20           |
| 8         | 3210-0890 |      | 1.5  | S             | S  | 22            | 22 | 2.25"            | 2.25" | \$115.70 #    | \$268.50        | 6.10           |
| 9         | 3210-0990 |      | 1.5  | S             | S  | 22            | 22 | 2.25"            | 2.25" | \$120.20      | \$279.80        | 7.60           |
| 10        | 3210-1090 |      | 1.5  | S             | S  | 22            | 22 | 2.25"            | 2.25" | \$125.00 #    | \$282.00        | 9.00           |
| 11        | 3210-1190 |      | 1.5  | S             | S  | 22            | 22 | 2.25"            | 2.25" | \$158.80      | \$355.50        | 10.50          |
| 12        | 3210-1290 |      | 1.5  | S             | S  | 22            | 22 | 2.25"            | 2.25" | \$158.80 #    | \$355.50        | 12.40          |
| 13        | 3210-1390 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$168.60      | \$377.70        | 14.26          |
| 14        | 3210-1490 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$168.60      | \$377.70        | 19.00          |
| 15        | 3210-1590 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$173.10      | \$397.60        | 21.25          |
| 16        | 3210-1690 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$173.10      | \$397.60        | 24.00          |
| 17        | 3210-1790 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$243.30      | \$545.10        | 27.50          |
| 18        | 3210-1890 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$243.30      | \$545.10        | 30.90          |
| 20        | 3210-2090 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$283.90      | \$636.10        | 35.97          |
| 22        | 3210-2290 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$365.20      | \$820.50        | 43.06          |
| 24        | 3210-2490 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$420.00      | \$943.50        | 55.50          |
| 60 Degree |           |      |      |               |    |               |    |                  |       |               |                 |                |
| 3         | 3210-0360 | QF   | 1.0* | P             | T  | 24            | 14 | 2.25"            | 2.00" | \$38.70       | TUBED           | 0.65           |
| 4         | 3210-0460 |      | 1.0* | P             | T  | 24            | 14 | 1.32"            | 2.00" | \$47.70 #     | TUBED           | 0.80           |
| 5         | 3210-0560 |      | 1.0* | P             | T  | 24            | 14 | 1.32"            | 2.00" | \$49.50 #     | TUBED           | 1.15           |
| 6         | 3210-0660 |      | 1.0* | P             | T  | 24            | 14 | 1.32"            | 2.00" | \$63.70 #     | TUBED           | 1.35           |
| 7         | 3210-0760 |      | 1.0* | P             | S  | 24            | 22 | 1.32"            | 2.25" | \$79.40 #     | \$184.40        | 1.65           |
| 8         | 3210-0860 |      | 1.5  | S             | S  | 22            | 22 | 2.25"            | 2.25" | \$98.50       | \$217.20        | 4.40           |
| 9         | 3210-0960 |      | 1.5  | S             | S  | 22            | 22 | 2.25"            | 2.25" | \$101.20      | \$226.40        | 5.50           |
| 10        | 3210-1060 |      | 1.5  | S             | S  | 22            | 22 | 2.25"            | 2.25" | \$113.10      | \$242.20        | 6.70           |
| 11        | 3210-1160 |      | 1.5  | S             | S  | 22            | 22 | 2.25"            | 2.25" | \$123.20      | \$264.70        | 7.50           |
| 12        | 3210-1260 |      | 1.5  | S             | S  | 22            | 22 | 2.25"            | 2.25" | \$123.20      | \$264.70        | 8.96           |
| 13        | 3210-1360 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$141.00      | \$306.90        | 12.25          |
| 14        | 3210-1460 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$141.00      | \$306.90        | 13.70          |
| 15        | 3210-1560 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$164.70      | \$355.50        | 16.00          |
| 16        | 3210-1660 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$164.70      | \$355.50        | 18.83          |
| 17        | 3210-1760 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$186.60      | \$408.10        | 19.20          |
| 18        | 3210-1860 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$186.60      | \$408.10        | 20.81          |
| 20        | 3210-2060 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$240.20      | \$513.60        | 25.35          |
| 22        | 3210-2260 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$283.90      | \$610.80        | 30.28          |
| 24        | 3210-2460 |      | 1.5  | S             | S  | 20            | 20 | 2.25"            | 2.25" | \$326.50      | \$702.30        | 42.50          |

Notes: \* 1.0 Galv and 1.5 SS

T= Tubed style, see p. 17. P= Press formed halves stitch welded together. S= Segmented elbows. CLR= Center Line radius.



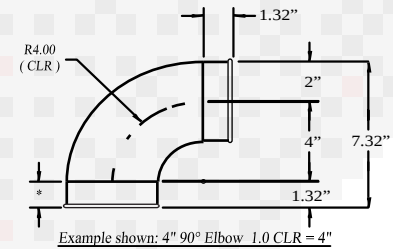
Elbows in galvanized sizes 3" - 7" are press-formed.



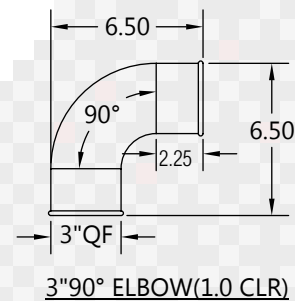
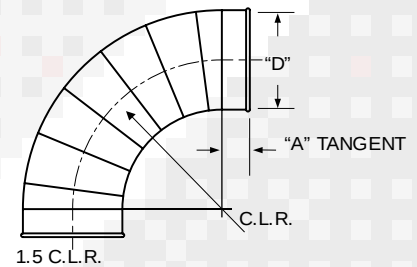
Elbows in sizes 8" - 24" are segmented.



PART NO. 3210



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



3"90° ELBOW(1.0 CLR)

# QF Elbows

ELBOWS

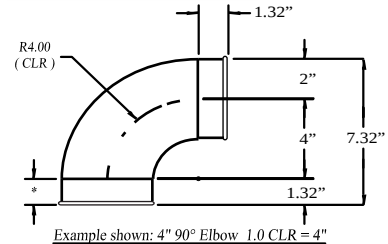
| Ø in      | Part No.  | Ends | CLR  | Style<br>Galv SS | Gauge<br>Galv SS | Tangents<br>Galv SS | Galv. Price | SS 304 Price | Weight Galv |
|-----------|-----------|------|------|------------------|------------------|---------------------|-------------|--------------|-------------|
| 45 Degree |           |      |      |                  |                  |                     |             |              |             |
| 3         | 3210-0345 |      | 1.0* | P                | T                | 24 14               | 2.25" 2.00" | \$34.90      | 0.90        |
| 4         | 3210-0445 |      | 1.0* | P                | T                | 24 14               | 1.32" 2.00" | \$40.70      | 1.00        |
| 5         | 3210-0545 |      | 1.0* | P                | T                | 24 14               | 1.32" 2.00" | \$45.10      | 0.70        |
| 6         | 3210-0645 |      | 1.0* | P                | T                | 24 14               | 1.32" 2.00" | \$53.60      | 1.05        |
| 7         | 3210-0745 |      | 1.0* | P                | S                | 24 22               | 1.32" 2.25" | \$75.50      | 1.30        |
| 8         | 3210-0845 |      | 1.5  | S                | S                | 22 22               | 2.25" 2.25" | \$81.50      | 3.70        |
| 9         | 3210-0945 |      | 1.5  | S                | S                | 22 22               | 2.25" 2.25" | \$83.10      | 4.80        |
| 10        | 3210-1045 |      | 1.5  | S                | S                | 22 22               | 2.25" 2.25" | \$86.60      | 5.31        |
| 11        | 3210-1145 |      | 1.5  | S                | S                | 22 22               | 2.25" 2.25" | \$91.40      | 6.05        |
| 12        | 3210-1245 | QF   | 1.5  | S                | S                | 22 22               | 2.25" 2.25" | \$91.40      | 7.30        |
| 13        | 3210-1345 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$98.50      | 9.25        |
| 14        | 3210-1445 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$98.50      | 11.48       |
| 15        | 3210-1545 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$132.10     | 12.06       |
| 16        | 3210-1645 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$132.10     | 13.80       |
| 17        | 3210-1745 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$152.00     | 15.25       |
| 18        | 3210-1845 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$152.00     | 17.80       |
| 20        | 3210-2045 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$181.70     | 20.04       |
| 22        | 3210-2245 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$208.50     | 23.90       |
| 24        | 3210-2445 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$239.80     | 28.00       |
| 30 Degree |           |      |      |                  |                  |                     |             |              |             |
| 3         | 3210-0330 |      | 1.0* | P                | T                | 24 14               | 2.25" 2.00" | \$34.90      | 0.38        |
| 4         | 3210-0430 |      | 1.0* | P                | T                | 24 14               | 1.32" 2.00" | \$40.70      | 0.45        |
| 5         | 3210-0530 |      | 1.0* | P                | T                | 24 14               | 1.32" 2.00" | \$45.10      | 0.65        |
| 6         | 3210-0630 |      | 1.0* | P                | T                | 24 14               | 1.32" 2.00" | \$55.60      | 0.85        |
| 7         | 3210-0730 |      | 1.0* | P                | S                | 24 22               | 1.32" 2.25" | \$75.50      | 1.20        |
| 8         | 3210-0830 |      | 1.5  | S                | S                | 22 22               | 2.25" 2.25" | \$76.70      | 2.80        |
| 9         | 3210-0930 |      | 1.5  | S                | S                | 22 22               | 2.25" 2.25" | \$79.40      | 3.60        |
| 10        | 3210-1030 |      | 1.5  | S                | S                | 22 22               | 2.25" 2.25" | \$83.10      | 4.30        |
| 11        | 3210-1130 |      | 1.5  | S                | S                | 22 22               | 2.25" 2.25" | \$84.80      | 4.75        |
| 12        | 3210-1230 | QF   | 1.5  | S                | S                | 22 22               | 2.25" 2.25" | \$84.80      | 5.55        |
| 13        | 3210-1330 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$93.70      | 7.10        |
| 14        | 3210-1430 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$93.70      | 8.53        |
| 15        | 3210-1530 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$104.60     | 9.00        |
| 16        | 3210-1630 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$104.60     | 10.30       |
| 17        | 3210-1730 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$113.60     | 11.07       |
| 18        | 3210-1830 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$113.60     | 12.14       |
| 20        | 3210-2030 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$133.00     | 14.73       |
| 22        | 3210-2230 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$152.00     | 17.90       |
| 24        | 3210-2430 |      | 1.5  | S                | S                | 20 20               | 2.25" 2.25" | \$174.80     | 22.70       |

Notes: \* 1.0 Galv and 1.5 SS

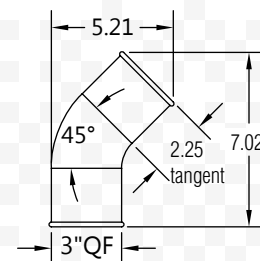
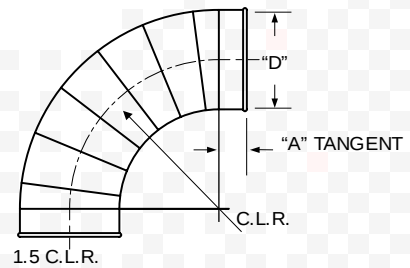
T= Tubed style, see p. 17. P= Press formed halves stitch welded together. S= Segmented elbows. CLR= Center Line radius.



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



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



3"45° ELBOW(1.0 CLR)

#-Denotes an item that is returnable. See page 51 for a full listing of returnable items.

# QF Elbow Long Radius

| Ø<br>in   | Part No.  | Ends | CLR  | Style |    | Gauge |    | Tangents<br>in |      | Galv<br>Price | SS 304<br>Price | Weight<br>Galv |
|-----------|-----------|------|------|-------|----|-------|----|----------------|------|---------------|-----------------|----------------|
|           |           |      |      | Galv  | SS | GALV  | SS | galv           | SS   |               |                 |                |
| 90 DEGREE |           |      |      |       |    |       |    |                |      |               |                 |                |
| 3         | 3210-0390 | QF   | 1.5* | P     | T  | 24    | 14 | 2.00           | 2.00 | \$38.70 #     | TUBED           | 0.90           |
| 4         | 3210-0490 |      | 1.5* | P     | T  | 24    | 14 | 1.32           | 2.00 | \$51.50 #     | TUBED           | 1.00           |
| 5         | 3210-0590 |      | 1.5* | P     | T  | 24    | 14 | 1.32           | 2.00 | \$57.70 #     | TUBED           | 1.20           |
| 6         | 3210-0690 |      | 1.5* | P     | T  | 24    | 14 | 1.32           | 2.00 | \$63.20 #     | TUBED           | 1.50           |
| 7         | 3210-0790 |      | 1.5* | P     | S  | 24    | 22 | 1.32           | 2.25 | \$84.80       | \$289.60        | 2.20           |
| 8         | 3210-0890 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$149.90      | \$322.50        | 6.10           |
| 9         | 3210-0990 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$155.90      | \$335.80        | 7.60           |
| 10        | 3210-1090 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$158.80      | \$340.80        | 9.00           |
| 11        | 3210-1190 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$187.70      | \$400.20        | 10.50          |
| 12        | 3210-1290 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$187.70      | \$400.20        | 12.40          |
| 13        | 3210-1390 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$208.50      | \$446.10        | 14.26          |
| 14        | 3210-1490 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$208.50      | \$446.10        | 19.00          |
| 15        | 3210-1590 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$325.60      | \$700.50        | 21.25          |
| 16        | 3210-1690 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$325.60      | \$700.50        | 24.00          |
| 17        | 3210-1790 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$355.50      | \$765.10        | 27.50          |
| 18        | 3210-1890 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$355.50      | \$765.10        | 30.90          |
| 20        | 3210-2090 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$589.60      | \$822.90        | 35.97          |
| 22        | 3210-2290 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$600.60      | \$1,040.10      | 43.06          |
| 24        | 3210-2490 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$690.80      | \$1,196.20      | 55.50          |
| 60 Degree |           |      |      |       |    |       |    |                |      |               |                 |                |
| 3         | 3210-0360 | QF   | 1.5* | P     | T  | 24    | 14 | 2.00           | 2.00 | \$38.70       | TUBED           | 0.65           |
| 4         | 3210-0460 |      | 1.5* | P     | T  | 24    | 14 | 1.32           | 2.00 | \$51.50       | TUBED           | 0.80           |
| 5         | 3210-0560 |      | 1.5* | P     | T  | 24    | 14 | 1.32           | 2.00 | \$57.70       | TUBED           | 1.15           |
| 6         | 3210-0660 |      | 1.5* | P     | T  | 24    | 14 | 1.32           | 2.00 | \$63.20       | TUBED           | 1.35           |
| 7         | 3210-0760 |      | 1.5* | P     | S  | 24    | 22 | 1.32           | 2.25 | \$83.30       | \$258.00        | 1.65           |
| 8         | 3210-0860 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$116.90      | \$268.00        | 4.40           |
| 9         | 3210-0960 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$124.30      | \$277.80        | 5.50           |
| 10        | 3210-1060 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$138.90      | \$297.00        | 6.70           |
| 11        | 3210-1160 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$151.10      | \$325.00        | 7.50           |
| 12        | 3210-1260 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$151.10      | \$325.00        | 8.96           |
| 13        | 3210-1360 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$173.00      | \$376.60        | 12.25          |
| 14        | 3210-1460 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$173.00      | \$376.60        | 13.70          |
| 15        | 3210-1560 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$202.30      | \$436.40        | 16.00          |
| 16        | 3210-1660 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$202.30      | \$436.40        | 18.83          |
| 17        | 3210-1760 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$229.00      | \$501.00        | 19.20          |
| 18        | 3210-1860 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$229.00      | \$501.00        | 20.81          |
| 20        | 3210-2060 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$295.00      | \$630.20        | 25.35          |
| 22        | 3210-2260 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$348.40      | \$749.60        | 30.28          |
| 24        | 3210-2460 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$400.80      | \$861.90        | 42.50          |

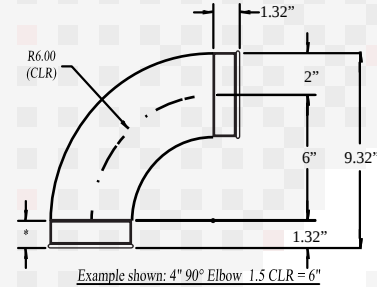
T= Tubed style. CLR= Center Line radius. P= Press formed halves stitch welded together. S= Segmented elbows.

Notes: \* 1.5 Galv and 2.5 SS

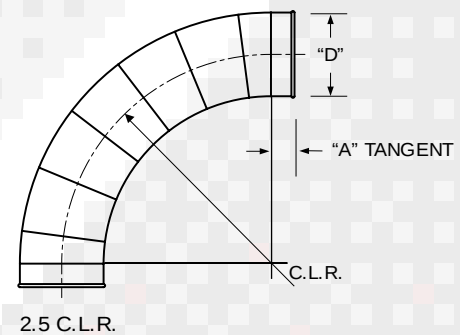


- Galvanized or stainless steel. (Specify if Stainless Steel.)
- Elbows in heavier gauges can be supplied in solid welded construction at an additional cost.
- Specify LR when ordering.

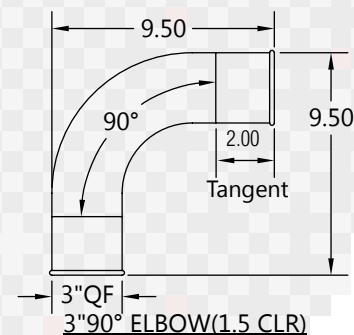
ELBOWS



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



2.5 C.L.R.



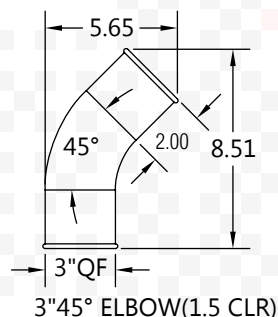
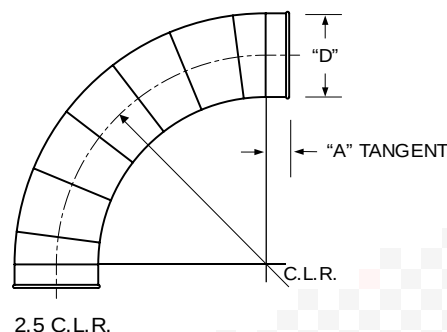
#-Denotes an item that is returnable. See page 51 for a full listing of returnable items.

## QF Elbow Long Radius

| Ø<br>in   | Part No.  | Ends | CLR  | Style |    | Gauge |    | Tangents<br>in |      | Galv.<br>Price | SS 304<br>Price | Weight<br>Galv |
|-----------|-----------|------|------|-------|----|-------|----|----------------|------|----------------|-----------------|----------------|
|           |           |      |      | Galv  | SS | Galv  | SS | Galv           | SS   |                |                 |                |
| 45 Degree |           |      |      |       |    |       |    |                |      |                |                 |                |
| 3         | 3210-0345 | QF   | 1.5* | P     | T  | 24    | 14 | 2.00           | 2.00 | \$34.90        | TUBED           | 0.90           |
| 4         | 3210-0445 |      | 1.5* | P     | T  | 24    | 14 | 1.32           | 2.00 | \$51.50        | TUBED           | 1.05           |
| 5         | 3210-0545 |      | 1.5* | P     | T  | 24    | 14 | 1.32           | 2.00 | \$57.70        | TUBED           | 1.60           |
| 6         | 3210-0645 |      | 1.5* | P     | T  | 24    | 14 | 1.32           | 2.00 | \$63.20        | TUBED           | 2.20           |
| 7         | 3210-0745 |      | 1.5* | P     | S  | 24    | 22 | 1.32           | 2.25 | \$104.80       | \$226.40        | 2.90           |
| 8         | 3210-0845 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$116.90       | \$252.10        | 7.65           |
| 9         | 3210-0945 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$124.30       | \$277.80        | 10.87          |
| 10        | 3210-1045 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$138.90       | \$297.00        | 13.38          |
| 11        | 3210-1145 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$151.10       | \$325.00        | 16.25          |
| 12        | 3210-1245 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$151.10       | \$325.00        | 22.00          |
| 13        | 3210-1345 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$173.00       | \$376.60        | 25.00          |
| 14        | 3210-1445 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$173.00       | \$376.60        | 29.04          |
| 15        | 3210-1545 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$202.30       | \$436.40        | 32.10          |
| 16        | 3210-1645 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$202.30       | \$436.40        | 36.80          |
| 17        | 3210-1745 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$229.00       | \$501.00        | 41.00          |
| 18        | 3210-1845 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$229.00       | \$501.00        | 45.93          |
| 20        | 3210-2045 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$295.00       | \$630.20        | 58.00          |
| 22        | 3210-2245 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$348.40       | \$749.60        | 67.52          |
| 24        | 3210-2445 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$400.80       | \$861.90        | 75.74          |
| 30 Degree |           |      |      |       |    |       |    |                |      |                |                 |                |
| 3         | 3210-0330 | QF   | 1.5* | P     | T  | 24    | 14 | 2.00           | 2.00 | \$37.80        | TUBED           | 0.80           |
| 4         | 3210-0430 |      | 1.5* | P     | T  | 24    | 14 | 1.32           | 2.00 | \$51.50        | TUBED           | 0.96           |
| 5         | 3210-0530 |      | 1.5* | P     | T  | 24    | 14 | 1.32           | 2.00 | \$57.70        | TUBED           | 1.40           |
| 6         | 3210-0630 |      | 1.5* | P     | T  | 24    | 14 | 1.32           | 2.00 | \$63.20        | TUBED           | 1.80           |
| 7         | 3210-0730 |      | 1.5* | P     | S  | 24    | 22 | 1.32           | 2.25 | \$78.60        | \$168.00        | 2.60           |
| 8         | 3210-0830 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$90.80        | \$175.20        | 5.56           |
| 9         | 3210-0930 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$95.70        | \$182.60        | 7.79           |
| 10        | 3210-1030 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$99.30        | \$186.50        | 9.45           |
| 11        | 3210-1130 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$106.50       | \$195.90        | 11.40          |
| 12        | 3210-1230 |      | 2.5  | S     | S  | 22    | 22 | 2.25           | 2.25 | \$106.50       | \$195.90        | 13.08          |
| 13        | 3210-1330 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$113.60       | \$198.80        | 16.30          |
| 14        | 3210-1430 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$113.60       | \$198.80        | 20.92          |
| 15        | 3210-1530 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$124.50       | \$266.00        | 23.10          |
| 16        | 3210-1630 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$124.50       | \$266.00        | 25.58          |
| 17        | 3210-1730 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$139.50       | \$303.60        | 28.10          |
| 18        | 3210-1830 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$139.50       | \$303.60        | 31.86          |
| 20        | 3210-2030 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$163.40       | \$353.10        | 38.94          |
| 22        | 3210-2230 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$186.30       | \$402.20        | 46.68          |
| 24        | 3210-2430 |      | 2.5  | S     | S  | 20    | 20 | 2.25           | 2.25 | \$214.20       | \$462.50        | 60.43          |



- 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.

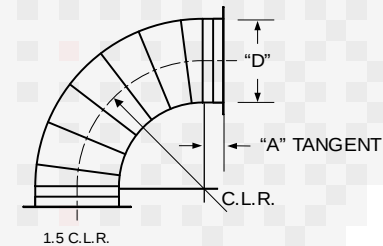
Notes: \* 1.5 Galv and 2.5 SS

# QF Elbow Flanged

| Ø<br>in   | Part No.  | CLR  |     | STYLE |    | Gauge |    | Tangents<br>in | Galv Price | SS 304<br>Price | Weight<br>Galv |
|-----------|-----------|------|-----|-------|----|-------|----|----------------|------------|-----------------|----------------|
|           |           | Galv | SS  | Galv  | SS | Galv  | SS |                |            |                 |                |
| 90 Degree |           |      |     |       |    |       |    |                |            |                 |                |
| 3         | 3211-0390 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$57.70    | TUBED           | 1.75           |
| 4         | 3211-0490 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$68.50    | TUBED           | 2.25           |
| 5         | 3211-0590 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$76.00    | TUBED           | 2.80           |
| 6         | 3211-0690 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$91.60    | TUBED           | 3.85           |
| 7         | 3211-0790 | 1.0  | 1.5 | P     | S  | 24    | 22 | 2              | \$110.30   | \$364.40        | 4.90           |
| 8         | 3211-0890 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$154.60   | \$389.40        | 7.66           |
| 9         | 3211-0990 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$163.20   | \$401.70        | 8.45           |
| 10        | 3211-1090 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$175.60   | \$406.80        | 15.47          |
| 11        | 3211-1190 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$225.00   | \$489.00        | 17.60          |
| 12        | 3211-1290 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$225.00   | \$489.00        | 19.33          |
| 13        | 3211-1390 | 1.5  | 1.5 | S     | S  | 20    | 20 | 2              | \$249.20   | \$518.70        | 22.40          |
| 14        | 3211-1490 | 1.5  | 1.5 | S     | S  | 20    | 20 | 2              | \$249.20   | \$518.70        | 25.39          |
| 15        | 3211-1590 | 1.5  | 1.5 | S     | S  | 20    | 20 | 2              | \$280.60   | \$564.70        | 27.90          |
| 16        | 3211-1690 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$280.60   | \$564.70        | 30.51          |
| 17        | 3211-1790 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$359.40   | \$765.80        | 32.30          |
| 18        | 3211-1890 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$359.40   | \$765.80        | 34.67          |
| 20        | 3211-2090 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$407.30   | \$877.70        | 41.99          |
| 22        | 3211-2290 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$504.70   | \$1,091.60      | 46.90          |
| 24        | 3211-2490 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$580.40   | \$1,255.30      | 70.96          |
| 26        | 3211-2690 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$672.30   | \$1,341.40      | 89.12          |
| 28        | 3211-2890 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$825.90   | \$1,615.20      | 99.19          |
| 30        | 3211-3090 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$847.00   | \$1,671.40      | 110.26         |
| 32        | 3211-3290 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$1,066.20 | \$1,726.90      | 121.38         |
| 34        | 3211-3490 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$1,216.00 | \$2,056.40      | 133.52         |
| 36        | 3211-3690 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$1,384.90 | \$2,520.10      | 149.04         |
| 38        | 3211-3890 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$1,580.00 | \$3,038.20      | 162.31         |
| 40        | 3211-4090 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$1,909.30 | \$3,778.30      | 176.20         |
| 60 Degree |           |      |     |       |    |       |    |                |            |                 |                |
| 3         | 3211-0360 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$57.70    | TUBED           | 1.60           |
| 4         | 3211-0460 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$68.50    | TUBED           | 2.00           |
| 5         | 3211-0560 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$72.40    | TUBED           | 2.75           |
| 6         | 3211-0660 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$91.60    | TUBED           | 3.65           |
| 7         | 3211-0760 | 1.0  | 1.5 | P     | S  | 24    | 22 | 2              | \$110.30   | \$298.40        | 4.80           |
| 8         | 3211-0860 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$136.60   | \$335.90        | 6.87           |
| 9         | 3211-0960 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$143.30   | \$345.80        | 9.48           |
| 10        | 3211-1060 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$163.30   | \$365.20        | 12.98          |
| 11        | 3211-1160 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$187.70   | \$394.20        | 15.49          |
| 12        | 3211-1260 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$187.70   | \$394.20        | 18.67          |
| 13        | 3211-1360 | 1.5  | 1.5 | S     | S  | 20    | 20 | 2              | \$220.20   | \$444.60        | 21.44          |
| 14        | 3211-1460 | 1.5  | 1.5 | S     | S  | 20    | 20 | 2              | \$220.20   | \$444.60        | 24.92          |
| 15        | 3211-1560 | 1.5  | 1.5 | S     | S  | 20    | 20 | 2              | \$271.70   | \$520.90        | 27.80          |
| 16        | 3211-1660 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$271.70   | \$520.90        | 30.25          |
| 17        | 3211-1760 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$300.10   | \$623.20        | 33.69          |
| 18        | 3211-1860 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$300.10   | \$623.20        | 36.86          |
| 20        | 3211-2060 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$361.70   | \$749.80        | 40.52          |
| 22        | 3211-2260 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$419.70   | \$873.10        | 45.95          |
| 24        | 3211-2460 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$482.60   | \$1,004.00      | 58.95          |
| 26        | 3211-2660 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$516.60   | \$1,022.50      | 75.08          |
| 28        | 3211-2860 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$585.90   | \$1,159.30      | 82.97          |
| 30        | 3211-3060 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$681.90   | \$1,349.40      | 91.71          |
| 32        | 3211-3260 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$835.50   | \$1,653.40      | 100.23         |
| 34        | 3211-3460 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$1,040.10 | \$1,767.30      | 132.18         |
| 36        | 3211-3660 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$1,273.50 | \$1,835.90      | 122.29         |
| 38        | 3211-3860 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$1,557.70 | \$2,588.60      | 132.58         |
| 40        | 3211-4060 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$1,800.70 | \$3,563.20      | 142.99         |

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



- Flange attached by vanstone lip. Flanges on both ends.
- Also available in Long Radius.

ELBOWS

## QF Elbow Flanged

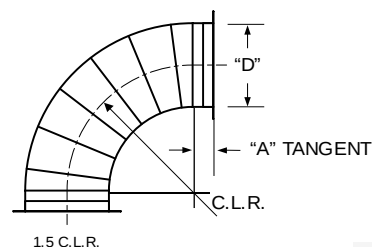
| Ø<br>in   | Part No.  | CLR  |     | Style |    | Gauge |    | Tangents<br>in | Galv<br>Price | SS 304<br>Price | Weight<br>Galv |
|-----------|-----------|------|-----|-------|----|-------|----|----------------|---------------|-----------------|----------------|
|           |           | Galv | SS  | Galv  | SS | Galv  | SS |                |               |                 |                |
| 45 Degree |           |      |     |       |    |       |    |                |               |                 |                |
| 3         | 3211-0345 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$39.40       | TUBED           | 1.75           |
| 4         | 3211-0445 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$61.40       | TUBED           | 2.25           |
| 5         | 3211-0545 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$67.80       | TUBED           | 2.80           |
| 6         | 3211-0645 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$81.50       | TUBED           | 3.85           |
| 7         | 3211-0745 | 1.0  | 1.5 | P     | S  | 24    | 22 | 2              | \$106.20      | \$273.60        | 4.90           |
| 8         | 3211-0845 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$118.90      | \$280.90        | 7.66           |
| 9         | 3211-0945 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$124.30      | \$288.20        | 8.45           |
| 10        | 3211-1045 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$135.50      | \$301.90        | 15.47          |
| 11        | 3211-1145 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$154.40      | \$324.00        | 17.60          |
| 12        | 3211-1245 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$154.40      | \$324.00        | 19.33          |
| 13        | 3211-1345 | 1.5  | 1.5 | S     | S  | 20    | 20 | 2              | \$175.60      | \$345.10        | 22.40          |
| 14        | 3211-1445 | 1.5  | 1.5 | S     | S  | 20    | 20 | 2              | \$175.60      | \$345.10        | 25.39          |
| 15        | 3211-1545 | 1.5  | 1.5 | S     | S  | 20    | 20 | 2              | \$237.60      | \$447.30        | 27.90          |
| 16        | 3211-1645 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$237.60      | \$447.30        | 30.51          |
| 17        | 3211-1745 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$264.00      | \$542.20        | 32.30          |
| 18        | 3211-1845 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$264.00      | \$542.20        | 34.67          |
| 20        | 3211-2045 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$300.80      | \$622.00        | 41.99          |
| 22        | 3211-2245 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$341.00      | \$702.80        | 46.90          |
| 24        | 3211-2445 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$392.10      | \$808.30        | 70.96          |
| 26        | 3211-2645 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$472.50      | \$935.00        | 89.12          |
| 28        | 3211-2845 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$583.00      | \$1,151.70      | 99.19          |
| 30        | 3211-3045 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$624.30      | \$1,235.40      | 110.26         |
| 32        | 3211-3245 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$691.40      | \$1,368.50      | 121.38         |
| 34        | 3211-3445 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$741.30      | \$1,467.20      | 133.52         |
| 36        | 3211-3645 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$822.00      | \$1,628.80      | 149.04         |
| 38        | 3211-3845 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$912.40      | \$1,805.50      | 162.31         |
| 40        | 3211-4045 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$1,014.10    | \$2,007.10      | 176.20         |
| 30 Degree |           |      |     |       |    |       |    |                |               |                 |                |
| 3         | 3211-0330 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$61.40       | TUBED           | 1.60           |
| 4         | 3211-0430 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$61.40       | TUBED           | 2.00           |
| 5         | 3211-0530 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$67.80       | TUBED           | 2.75           |
| 6         | 3211-0630 | 1.0  | 1.5 | P     | T  | 24    | 14 | 2              | \$83.60       | TUBED           | 3.65           |
| 7         | 3211-0730 | 1.0  | 1.5 | P     | S  | 24    | 22 | 2              | \$106.20      | \$248.70        | 4.80           |
| 8         | 3211-0830 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$113.90      | \$260.50        | 6.87           |
| 9         | 3211-0930 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$120.60      | \$265.00        | 9.48           |
| 10        | 3211-1030 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$131.80      | \$271.00        | 12.98          |
| 11        | 3211-1130 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$147.60      | \$284.70        | 15.49          |
| 12        | 3211-1230 | 1.5  | 1.5 | S     | S  | 22    | 22 | 2              | \$147.60      | \$284.70        | 18.67          |
| 13        | 3211-1330 | 1.5  | 1.5 | S     | S  | 20    | 20 | 2              | \$171.00      | \$293.60        | 21.44          |
| 14        | 3211-1430 | 1.5  | 1.5 | S     | S  | 20    | 20 | 2              | \$171.00      | \$293.60        | 24.92          |
| 15        | 3211-1530 | 1.5  | 1.5 | S     | S  | 20    | 20 | 2              | \$209.10      | \$375.90        | 27.80          |
| 16        | 3211-1630 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$209.10      | \$375.90        | 30.25          |
| 17        | 3211-1730 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$224.20      | \$455.30        | 33.69          |
| 18        | 3211-1830 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$224.20      | \$455.30        | 36.86          |
| 20        | 3211-2030 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$249.90      | \$514.20        | 40.52          |
| 22        | 3211-2230 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$282.00      | \$577.60        | 45.95          |
| 24        | 3211-2430 | 1.5  | 1.5 | S     | S  | 20    | 20 | 4              | \$324.30      | \$664.20        | 58.95          |
| 26        | 3211-2630 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$420.80      | \$832.40        | 75.08          |
| 28        | 3211-2830 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$461.90      | \$912.20        | 82.97          |
| 30        | 3211-3030 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$516.60      | \$1,022.50      | 91.71          |
| 32        | 3211-3230 | 1.5  | 1.5 | S     | S  | 18    | 18 | 4              | \$538.30      | \$1,064.30      | 100.23         |
| 34        | 3211-3430 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$622.40      | \$1,231.50      | 132.18         |
| 36        | 3211-3630 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$683.70      | \$1,353.20      | 122.29         |
| 38        | 3211-3830 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$752.00      | \$1,486.30      | 132.58         |
| 40        | 3211-4030 | 1.5  | 1.5 | S     | S  | 16    | 16 | 4              | \$827.00      | \$1,634.50      | 142.99         |

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



PART NO. 3211



• Flange attached by Van Stone lip. Flanges on both ends.

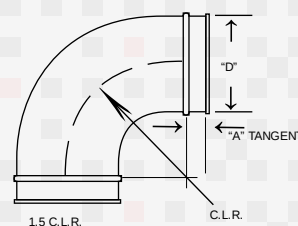
• Also available in Long Radius.

## QF Elbow Tubed

| Ø in      | Part No.  | Ends | CLR | Gauge |    | Tangents in | Galv Price | SS 304 Price ◇ | Weight Galv |
|-----------|-----------|------|-----|-------|----|-------------|------------|----------------|-------------|
|           |           |      |     | Galv  | SS |             |            |                |             |
| 90 Degree |           |      |     |       |    |             |            |                |             |
| 3         | 3214-0390 | QF   | 1.5 | 16    | 14 | 2           | \$58.10    | \$92.30        | 3.50        |
| 4         | 3214-0490 |      |     | 16    | 14 |             | \$58.10    | \$94.80        | 5.00        |
| 5         | 3214-0590 |      |     | 14    | 14 |             | \$110.40   | \$191.20       | 7.40        |
| 6         | 3214-0690 |      |     | 14    | 14 |             | \$148.20   | \$233.40       | 10.25       |
| 8 ◇       | 3214-0890 |      |     | 14    | 14 |             | \$291.80   | \$442.50       | 15.00       |
| 60 Degree |           |      |     |       |    |             |            |                |             |
| 3         | 3214-0360 | QF   | 1.5 | 16    | 14 | 2           | \$58.10    | \$92.30        | 2.31        |
| 4         | 3214-0460 |      |     | 16    | 14 |             | \$58.10    | \$94.80        | 3.33        |
| 5         | 3214-0560 |      |     | 14    | 14 |             | \$110.40   | \$191.20       | 4.95        |
| 6         | 3214-0660 |      |     | 14    | 14 |             | \$148.20   | \$233.40       | 6.67        |
| 8         | 3214-0860 |      |     | 14    | 14 |             | \$291.80   | \$442.50       | 9.98        |
| 45 Degree |           |      |     |       |    |             |            |                |             |
| 3         | 3214-0345 | QF   | 1.5 | 16    | 14 | 2           | \$58.10    | \$92.30        | 1.75        |
| 4         | 3214-0445 |      |     | 16    | 14 |             | \$58.10    | \$94.80        | 2.50        |
| 5         | 3214-0545 |      |     | 14    | 14 |             | \$110.40   | \$191.20       | 3.75        |
| 6         | 3214-0645 |      |     | 14    | 14 |             | \$148.20   | \$233.40       | 5.00        |
| 8         | 3214-0845 |      |     | 14    | 14 |             | \$291.80   | \$442.50       | 7.50        |
| 30 Degree |           |      |     |       |    |             |            |                |             |
| 3         | 3214-0330 | QF   | 1.5 | 16    | 14 | 2           | \$58.10    | \$92.30        | 1.15        |
| 4         | 3214-0430 |      |     | 16    | 14 |             | \$58.10    | \$94.80        | 1.65        |
| 5         | 3214-0530 |      |     | 14    | 14 |             | \$110.40   | \$191.20       | 2.48        |
| 6         | 3214-0630 |      |     | 14    | 14 |             | \$148.20   | \$233.40       | 3.33        |
| 8         | 3214-0830 |      |     | 14    | 14 |             | \$291.80   | \$442.50       | 4.95        |



- Galvanized or stainless steel. (Specify if Stainless Steel.)
- Tubed elbows are air flow directional (collar on outside of tube for outlet and collar on inside of tube for inlet). **Please specify direction if ordering ends other than QF.**



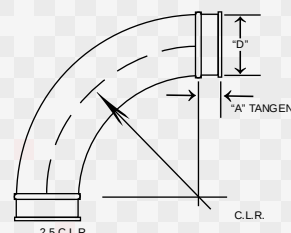
ELBOWS

## QF Elbow Tubed Long Radius

| Ø         | Part No.    | Ends | CLR | Gauge |    | Tangents | Galv     | SS 304   | Weight |
|-----------|-------------|------|-----|-------|----|----------|----------|----------|--------|
|           |             |      |     | Galv  | SS | in       | Price    | Price Ø  | Galv   |
| 90 Degree |             |      |     |       |    |          |          |          |        |
| 3         | 3214-0390LR | QF   | 2.5 | 16    | 14 | 2        | \$63.20  | \$129.30 | 5.00   |
| 4         | 3214-0490LR |      |     | 16    | 14 |          | \$63.20  | \$172.20 | 7.00   |
| 5         | 3214-0590LR |      |     | 14    | 14 |          | \$110.40 | \$294.20 | 11.25  |
| 6         | 3214-0690LR |      |     | 14    | 14 |          | \$151.70 | \$354.10 | 14.75  |
| 8 Ø       | 3214-0890LR |      |     | 14    | 14 |          | \$288.10 | \$612.90 | 25.00  |
| 60 Degree |             |      |     |       |    |          |          |          |        |
| 3         | 3214-0360LR | QF   | 2.5 | 16    | 14 | 2        | \$63.20  | \$129.30 | 3.33   |
| 4         | 3214-0460LR |      |     | 16    | 14 |          | \$63.20  | \$172.20 | 4.62   |
| 5         | 3214-0560LR |      |     | 14    | 14 |          | \$110.40 | \$294.20 | 7.26   |
| 6         | 3214-0660LR |      |     | 14    | 14 |          | \$151.70 | \$354.10 | 8.91   |
| 8         | 3214-0860LR |      |     | 14    | 14 |          | \$288.10 | \$612.90 | 16.50  |
| 45 Degree |             |      |     |       |    |          |          |          |        |
| 3         | 3214-0345LR | QF   | 2.5 | 16    | 14 | 2        | \$63.20  | \$129.30 | 2.50   |
| 4         | 3214-0445LR |      |     | 16    | 14 |          | \$63.20  | \$129.30 | 3.65   |
| 5         | 3214-0545LR |      |     | 14    | 14 |          | \$110.40 | \$220.70 | 5.50   |
| 6         | 3214-0645LR |      |     | 14    | 14 |          | \$151.70 | \$265.50 | 6.75   |
| 8         | 3214-0845LR |      |     | 14    | 14 |          | \$288.10 | \$459.70 | 12.50  |
| 30 Degree |             |      |     |       |    |          |          |          |        |
| 3         | 3214-0330LR | QF   | 2.5 | 16    | 14 | 2        | \$63.20  | \$129.30 | 1.65   |
| 4         | 3214-0430LR |      |     | 16    | 14 |          | \$63.20  | \$129.30 | 2.31   |
| 5         | 3214-0530LR |      |     | 14    | 14 |          | \$110.40 | \$220.70 | 3.63   |
| 6         | 3214-0630LR |      |     | 14    | 14 |          | \$151.70 | \$265.50 | 4.46   |
| 8         | 3214-0830LR |      |     | 14    | 14 |          | \$288.10 | \$459.70 | 8.25   |



- Galvanized or stainless steel. (Specify if Stainless Steel.)
- Tubed elbows are air flow directional (collar on outside of tube for outlet and collar on inside of tube for inlet). **Please specify direction if ordering ends other than QF.**



This tube is airflow directional (collar on outside of tube for outlet and collar on inside of tube for inlet). Please specify direction if ordering ends other than QF.

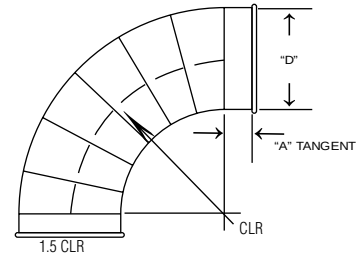
◇ Items may take longer than standard lead times.

# QF Elbow 16ga

| Ø in      | Part No.  | Ends | CLR | Tangents in | Gauge | Galv. Price | SS Price   | Weight Galv |
|-----------|-----------|------|-----|-------------|-------|-------------|------------|-------------|
| 90 Degree |           |      |     |             |       |             |            |             |
| 7         | 3212-0790 |      |     |             |       | \$156.70    | \$336.90   | 9.42        |
| 8         | 3212-0890 |      |     |             |       | \$182.60    | \$392.70   | 13.64       |
| 9         | 3212-0990 |      |     |             |       | \$189.80    | \$408.20   | 16.64       |
| 10        | 3212-1090 |      |     |             |       | \$193.50    | \$416.20   | 21.54       |
| 11        | 3212-1190 |      |     |             |       | \$228.80    | \$491.70   | 27.65       |
| 12        | 3212-1290 |      |     |             |       | \$228.80    | \$491.70   | 33.76       |
| 13        | 3212-1390 |      |     |             |       | \$254.40    | \$547.20   | 40.07       |
| 14        | 3212-1490 | QF   | 1.5 | 2.25        | 16    | \$254.40    | \$547.20   | 46.38       |
| 15        | 3212-1590 |      |     |             |       | \$381.70    | \$820.60   | 52.61       |
| 16        | 3212-1690 |      |     |             |       | \$381.70    | \$820.60   | 58.83       |
| 17        | 3212-1790 |      |     |             |       | \$416.70    | \$896.20   | 66.14       |
| 18        | 3212-1890 |      |     |             |       | \$416.70    | \$896.20   | 73.44       |
| 20        | 3212-2090 |      |     |             |       | \$597.50    | \$1,284.70 | 85.40       |
| 22        | 3212-2290 |      |     |             |       | \$649.00    | \$1,395.50 | 107.98      |
| 24        | 3212-2490 |      |     |             |       | \$746.30    | \$1,604.80 | 132.63      |
| 60 Degree |           |      |     |             |       |             |            |             |
| 7         | 3212-0760 |      |     |             |       | \$112.40    | \$241.70   | 8.65        |
| 8         | 3212-0860 |      |     |             |       | \$119.90    | \$257.70   | 11.90       |
| 9         | 3212-0960 |      |     |             |       | \$142.00    | \$305.40   | 14.21       |
| 10        | 3212-1060 |      |     |             |       | \$158.60    | \$341.00   | 17.29       |
| 11        | 3212-1160 |      |     |             |       | \$173.30    | \$372.50   | 20.65       |
| 12        | 3212-1260 |      |     |             |       | \$173.30    | \$372.50   | 24.00       |
| 13        | 3212-1360 |      |     |             |       | \$197.20    | \$424.20   | 28.68       |
| 14        | 3212-1460 | QF   | 1.5 | 2.25        | 16    | \$197.20    | \$424.20   | 33.35       |
| 15        | 3212-1560 |      |     |             |       | \$232.40    | \$499.70   | 37.09       |
| 16        | 3212-1660 |      |     |             |       | \$232.40    | \$499.70   | 40.83       |
| 17        | 3212-1760 |      |     |             |       | \$260.00    | \$558.90   | 45.85       |
| 18        | 3212-1860 |      |     |             |       | \$260.00    | \$558.90   | 50.87       |
| 20        | 3212-2060 |      |     |             |       | \$332.00    | \$713.70   | 62.19       |
| 22        | 3212-2260 |      |     |             |       | \$387.30    | \$832.80   | 74.56       |
| 24        | 3212-2460 |      |     |             |       | \$445.40    | \$957.60   | 86.93       |
| 45 Degree |           |      |     |             |       |             |            |             |
| 7         | 3212-0745 |      |     |             |       | \$106.90    | \$230.00   | 7.82        |
| 8         | 3212-0845 |      |     |             |       | \$116.10    | \$249.70   | 9.56        |
| 9         | 3212-0945 |      |     |             |       | \$119.90    | \$257.70   | 11.30       |
| 10        | 3212-1045 |      |     |             |       | \$123.60    | \$265.50   | 13.97       |
| 11        | 3212-1145 |      |     |             |       | \$129.20    | \$277.70   | 16.92       |
| 12        | 3212-1245 |      |     |             |       | \$129.20    | \$277.70   | 20.40       |
| 13        | 3212-1345 |      |     |             |       | \$140.10    | \$301.20   | 23.85       |
| 14        | 3212-1445 | QF   | 1.5 | 2.25        | 16    | \$140.10    | \$301.20   | 27.60       |
| 15        | 3212-1545 |      |     |             |       | \$182.60    | \$392.70   | 30.56       |
| 16        | 3212-1645 |      |     |             |       | \$182.60    | \$392.70   | 34.10       |
| 17        | 3212-1745 |      |     |             |       | \$213.90    | \$459.80   | 39.80       |
| 18        | 3212-1845 |      |     |             |       | \$213.90    | \$459.80   | 44.36       |
| 20        | 3212-2045 |      |     |             |       | \$249.00    | \$535.30   | 52.60       |
| 22        | 3212-2245 |      |     |             |       | \$282.10    | \$606.70   | 59.10       |
| 24        | 3212-2445 |      |     |             |       | \$324.50    | \$697.70   | 64.78       |
| 30 Degree |           |      |     |             |       |             |            |             |
| 7         | 3212-0730 |      |     |             |       | \$103.20    | \$222.00   | 5.18        |
| 8         | 3212-0830 |      |     |             |       | \$108.90    | \$234.00   | 6.79        |
| 9         | 3212-0930 |      |     |             |       | \$112.40    | \$241.70   | 8.40        |
| 10        | 3212-1030 |      |     |             |       | \$116.10    | \$249.70   | 9.77        |
| 11        | 3212-1130 |      |     |             |       | \$119.90    | \$257.70   | 11.44       |
| 12        | 3212-1230 |      |     |             |       | \$119.90    | \$257.70   | 13.10       |
| 13        | 3212-1330 |      |     |             |       | \$130.90    | \$281.50   | 16.09       |
| 14        | 3212-1430 | QF   | 1.5 | 2.25        | 16    | \$130.90    | \$281.50   | 19.07       |
| 15        | 3212-1530 |      |     |             |       | \$147.50    | \$317.20   | 22.94       |
| 16        | 3212-1630 |      |     |             |       | \$147.50    | \$317.20   | 25.86       |
| 17        | 3212-1730 |      |     |             |       | \$160.50    | \$344.90   | 29.40       |
| 18        | 3212-1830 |      |     |             |       | \$160.50    | \$344.90   | 33.31       |
| 20        | 3212-2030 |      |     |             |       | \$175.30    | \$376.70   | 42.15       |
| 22        | 3212-2230 |      |     |             |       | \$213.90    | \$459.80   | 51.09       |
| 24        | 3212-2430 |      |     |             |       | \$246.00    | \$528.90   | 56.91       |



PART NO. 3212



90° QF 16 Gauge 1.5CLR  
60° QF 16 Gauge 1.5CLR  
45° QF 16 Gauge 1.5CLR  
30° QF 16 Gauge 1.5CLR

Specify Galvanized or SS304:

- Galvanized is 16 gauge with 16 gauge collars.
- SS is 16ga with 20ga collars.

CLR: Standard is 1.5

2.5 CLR 16ga Elbows available at no extra cost

- 16ga 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. **Please specify direction if ordering ends other than QF.**
- Other CLR's available upon request.
- Interior buffing available upon request for additional 10% cost.

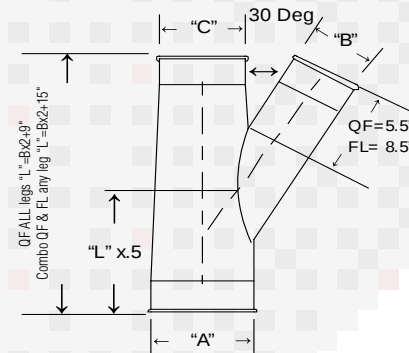
## QF Branch

| Ø<br>in | Part No.  | Ends   | Gauge |    | Galv<br>Price | SS 304<br>Price | Weight (Galv) |
|---------|-----------|--------|-------|----|---------------|-----------------|---------------|
|         |           |        | Galv  | SS |               |                 |               |
| 3       | 3220-03XX | QF     | 22    | 22 | \$106.60      | \$221.60        | 2.32          |
| 4       | 3220-04XX | QF     | 22    | 22 | \$106.60      | \$221.60        | 3.00          |
| 5       | 3220-05XX | QF     | 22    | 22 | \$112.20      | \$225.90        | 3.75          |
| 6       | 3220-06XX | QF     | 22    | 22 | \$116.00      | \$230.90        | 4.25          |
| 7       | 3220-07XX | QF     | 22    | 22 | \$117.80      | \$235.80        | 5.00          |
| 8       | 3220-08XX | QF     | 22    | 22 | \$120.60      | \$242.40        | 6.00          |
| 9       | 3220-09XX | QF     | 22    | 22 | \$126.20      | \$251.80        | 7.25          |
| 10      | 3220-10XX | QF     | 22    | 22 | \$134.60      | \$268.00        | 8.50          |
| 11      | 3220-11XX | QF     | 22    | 22 | \$149.60      | \$299.60        | 9.25          |
| 12      | 3220-12XX | QF     | 22    | 22 | \$149.60      | \$299.60        | 10.75         |
| 13      | 3220-13XX | QF     | 20    | 20 | \$175.60      | \$353.00        | 11.40         |
| 14      | 3220-14XX | QF     | 20    | 20 | \$175.60      | \$353.00        | 13.50         |
| 15      | 3220-15XX | QF     | 20    | 20 | \$202.00      | \$405.90        | 15.60         |
| 16      | 3220-16XX | QF     | 20    | 20 | \$202.00      | \$405.90        | 17.56         |
| 17      | 3220-17XX | QF     | 20    | 20 | \$219.80      | \$442.80        | 19.00         |
| 18      | 3220-18XX | QF     | 20    | 20 | \$219.80      | \$442.80        | 21.00         |
| 20      | 3220-20XX | QF     | 20    | 20 | \$264.60      | \$526.90        | 30.00         |
| 22      | 3220-22XX | QF     | 20    | 20 | \$332.80      | \$663.20        | 39.50         |
| 24      | 3220-24XX | QF     | 20    | 20 | \$382.70      | \$762.70        | 53.50         |
| 26      | 3220-26XX | FLANGE | 18    | 18 | \$422.60      | \$916.40        | 74.00         |
| 28      | 3220-28XX | FLANGE | 18    | 18 | \$540.40      | \$994.90        | 98.00         |
| 30      | 3220-30XX | FLANGE | 18    | 18 | \$607.70      | \$1,086.20      | 117.05        |
| 32      | 3220-32XX | FLANGE | 18    | 18 | \$680.60      | \$1,136.30      | 125.94        |
| 34      | 3220-34XX | FLANGE | 18    | 18 | \$757.30      | \$1,209.90      | 134.83        |
| 36      | 3220-36XX | FLANGE | 18    | 18 | \$834.00      | \$1,246.70      | 142.78        |
| 38      | 3220-38XX | FLANGE | 18    | 18 | \$918.00      | \$1,345.10      | 153.47        |
| 40      | 3220-40XX | FLANGE | 18    | 18 | \$1,007.90    | \$1,418.80      | 162.81        |

NOTE: See page 51 for returnable sizes



- 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 / or C require flanges.

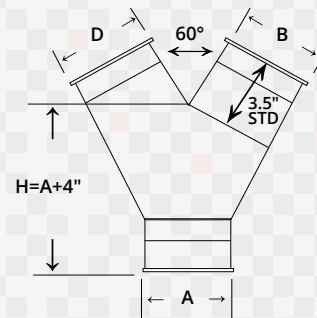
BRANCHES

## QFY-Branch (Traditional Pant Leg Design)

| Ø<br>in | Part No.  | Ends   | Gauge |    | Galv<br>Price | SS 304<br>Price | Weight<br>Galv |
|---------|-----------|--------|-------|----|---------------|-----------------|----------------|
|         |           |        | Galv  | SS |               |                 |                |
| 3       | 3221-03XX | QF     | 22    | 22 | \$137.00      | \$283.60        | 1.50           |
| 4       | 3221-04XX | QF     | 22    | 22 | \$137.00      | \$283.60        | 1.75           |
| 5       | 3221-05XX | QF     | 22    | 22 | \$144.40      | \$287.40        | 2.00           |
| 6       | 3221-06XX | QF     | 22    | 22 | \$150.50      | \$299.90        | 2.75           |
| 7       | 3221-07XX | QF     | 22    | 22 | \$154.90      | \$310.10        | 3.25           |
| 8       | 3221-08XX | QF     | 22    | 22 | \$161.80      | \$322.00        | 4.50           |
| 9       | 3221-09XX | QF     | 22    | 22 | \$170.10      | \$338.00        | 5.25           |
| 10      | 3221-10XX | QF     | 22    | 22 | \$173.30      | \$347.60        | 6.75           |
| 11      | 3221-11XX | QF     | 22    | 22 | \$199.10      | \$396.10        | 8.00           |
| 12      | 3221-12XX | QF     | 22    | 22 | \$199.10      | \$396.10        | 10.25          |
| 13      | 3221-13XX | QF     | 20    | 20 | \$239.60      | \$476.80        | 12.50          |
| 14      | 3221-14XX | QF     | 20    | 20 | \$239.60      | \$476.80        | 14.00          |
| 15      | 3221-15XX | QF     | 20    | 20 | \$266.60      | \$531.20        | 15.75          |
| 16      | 3221-16XX | QF     | 20    | 20 | \$266.60      | \$531.20        | 17.00          |
| 17      | 3221-17XX | QF     | 20    | 20 | \$296.10      | \$588.80        | 18.50          |
| 18      | 3221-18XX | QF     | 20    | 20 | \$296.10      | \$588.80        | 20.00          |
| 20      | 3221-20XX | QF     | 20    | 20 | \$352.30      | \$701.20        | 24.50          |
| 22      | 3221-22XX | QF     | 20    | 20 | \$404.70      | \$807.30        | 29.00          |
| 24      | 3221-24XX | QF     | 20    | 20 | \$465.60      | \$928.40        | 36.00          |
| 26      | 3221-26XX | FLANGE | 18    | 18 | \$535.20      | \$993.50        | 69.00          |
| 28      | 3221-28XX | FLANGE | 18    | 18 | \$615.00      | \$1,068.50      | 93.00          |
| 30      | 3221-30XX | FLANGE | 18    | 18 | \$676.10      | \$1,137.30      | 112.05         |
| 32      | 3221-32XX | FLANGE | 18    | 18 | \$744.60      | \$1,206.00      | 120.94         |
| 34      | 3221-34XX | FLANGE | 18    | 18 | \$820.80      | \$1,262.20      | 129.83         |
| 36      | 3221-36XX | FLANGE | 18    | 18 | \$898.80      | \$1,374.70      | 137.78         |
| 38      | 3221-38XX | FLANGE | 18    | 18 | \$992.20      | \$1,493.40      | 148.47         |
| 40      | 3221-40XX | FLANGE | 18    | 18 | \$1,091.30    | \$1,593.40      | 157.81         |



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

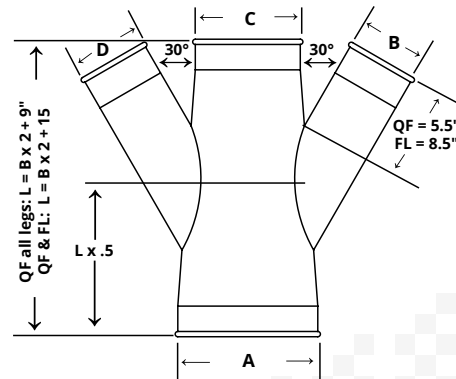


On sizes above 24", A is flanged. Add the cost of flange if B and / or D require flanges.

| Ø<br>in | Part No.  | Ends   | Gauge |    | Galv. Price | SS 304<br>Price | Weight<br>(Galv) |
|---------|-----------|--------|-------|----|-------------|-----------------|------------------|
|         |           |        | Galv  | SS |             |                 |                  |
| 3       | 3226-03XX | QF     | 22    | 22 | \$136.40    | \$282.50        | 2.62             |
| 4       | 3226-04XX | QF     | 22    | 22 | \$136.40    | \$282.50        | 3.50             |
| 5       | 3226-05XX | QF     | 22    | 22 | \$143.70    | \$286.10        | 4.35             |
| 6       | 3226-06XX | QF     | 22    | 22 | \$149.90    | \$298.60        | 5.00             |
| 7       | 3226-07XX | QF     | 22    | 22 | \$154.20    | \$308.70        | 6.00             |
| 8       | 3226-08XX | QF     | 22    | 22 | \$161.10    | \$320.60        | 7.25             |
| 9       | 3226-09XX | QF     | 22    | 22 | \$169.20    | \$336.50        | 8.50             |
| 10      | 3226-10XX | QF     | 22    | 22 | \$172.60    | \$346.10        | 10.00            |
| 11      | 3226-11XX | QF     | 22    | 22 | \$198.10    | \$394.40        | 10.75            |
| 12      | 3226-12XX | QF     | 22    | 22 | \$198.10    | \$394.40        | 12.25            |
| 13      | 3226-13XX | QF     | 20    | 20 | \$238.50    | \$474.80        | 13.15            |
| 14      | 3226-14XX | QF     | 20    | 20 | \$238.50    | \$474.80        | 14.95            |
| 15      | 3226-15XX | QF     | 20    | 20 | \$265.30    | \$528.90        | 17.35            |
| 16      | 3226-16XX | QF     | 20    | 20 | \$265.30    | \$528.90        | 19.56            |
| 17      | 3226-17XX | QF     | 20    | 20 | \$294.80    | \$586.30        | 21.00            |
| 18      | 3226-18XX | QF     | 20    | 20 | \$294.80    | \$586.30        | 26.00            |
| 20      | 3226-20XX | QF     | 20    | 20 | \$350.70    | \$698.10        | 35.00            |
| 22      | 3226-22XX | QF     | 20    | 20 | \$402.90    | \$803.90        | 49.50            |
| 24      | 3226-24XX | QF     | 20    | 20 | \$463.30    | \$924.50        | 68.40            |
| 26      | 3226-26XX | FLANGE | 18    | 18 | \$532.70    | \$989.20        | 104.00           |
| 28      | 3226-28XX | FLANGE | 18    | 18 | \$612.20    | \$1,064.00      | 128.00           |
| 30      | 3226-30XX | FLANGE | 18    | 18 | \$673.00    | \$1,132.40      | 153.00           |
| 32      | 3226-32XX | FLANGE | 18    | 18 | \$741.30    | \$1,200.90      | 164.94           |
| 34      | 3226-34XX | FLANGE | 18    | 18 | \$817.20    | \$1,256.70      | 179.83           |
| 36      | 3226-36XX | FLANGE | 18    | 18 | \$894.80    | \$1,368.80      | 187.78           |
| 38      | 3226-38XX | FLANGE | 18    | 18 | \$987.70    | \$1,487.00      | 203.49           |
| 40      | 3226-40XX | FLANGE | 18    | 18 | \$1,086.30  | \$1,586.60      | 222.81           |



- 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°

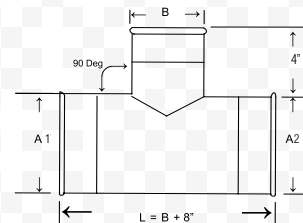


**On sizes above 24", A is flanged. Add the cost of flange if B, C, and / or D require flanges.**

| Ø in | Part No.  | Ends   | Gauge |    | Galv. Price | SS 304 Price | Weight (Galv) |
|------|-----------|--------|-------|----|-------------|--------------|---------------|
|      |           |        | Galv  | SS |             |              |               |
| 3    | 3227-03XX | QF     | 22    | 22 | \$108.20    | \$224.40     | 1.50          |
| 4    | 3227-04XX | QF     | 22    | 22 | \$108.20    | \$224.40     | 2.00          |
| 5    | 3227-05XX | QF     | 22    | 22 | \$113.70    | \$228.80     | 2.75          |
| 6    | 3227-06XX | QF     | 22    | 22 | \$117.50    | \$234.00     | 3.25          |
| 7    | 3227-07XX | QF     | 22    | 22 | \$119.40    | \$239.00     | 4.00          |
| 8    | 3227-08XX | QF     | 22    | 22 | \$122.40    | \$245.90     | 4.75          |
| 9    | 3227-09XX | QF     | 22    | 22 | \$127.90    | \$255.20     | 5.50          |
| 10   | 3227-10XX | QF     | 22    | 22 | \$136.40    | \$271.40     | 6.00          |
| 11   | 3227-11XX | QF     | 22    | 22 | \$151.60    | \$303.60     | 7.50          |
| 12   | 3227-12XX | QF     | 22    | 22 | \$151.60    | \$303.60     | 8.75          |
| 13   | 3227-13XX | QF     | 20    | 20 | \$178.10    | \$358.10     | 10.25         |
| 14   | 3227-14XX | QF     | 20    | 20 | \$178.10    | \$358.10     | 12.00         |
| 15   | 3227-15XX | QF     | 20    | 20 | \$204.80    | \$411.20     | 13.25         |
| 16   | 3227-16XX | QF     | 20    | 20 | \$204.80    | \$411.20     | 14.00         |
| 17   | 3227-17XX | QF     | 20    | 20 | \$222.80    | \$448.70     | 16.00         |
| 18   | 3227-18XX | QF     | 20    | 20 | \$222.80    | \$448.70     | 18.25         |
| 20   | 3227-20XX | QF     | 20    | 20 | \$268.30    | \$533.50     | 20.50         |
| 22   | 3227-22XX | QF     | 20    | 20 | \$337.40    | \$671.90     | 24.75         |
| 24   | 3227-24XX | QF     | 20    | 20 | \$388.10    | \$772.70     | 28.95         |
| 26   | 3227-26XX | FLANGE | 18    | 18 | \$428.50    | \$1,101.80   | 40.28         |
| 28   | 3227-28XX | FLANGE | 18    | 18 | \$547.90    | \$1,183.00   | 45.01         |
| 30   | 3227-30XX | FLANGE | 18    | 18 | \$616.10    | \$1,279.50   | 58.53         |
| 32   | 3227-32XX | FLANGE | 18    | 18 | \$690.10    | \$1,333.90   | 62.97         |
| 34   | 3227-34XX | FLANGE | 18    | 18 | \$767.80    | \$1,410.80   | 66.42         |
| 36   | 3227-36XX | FLANGE | 18    | 18 | \$845.60    | \$1,451.60   | 70.30         |
| 38   | 3227-38XX | FLANGE | 18    | 18 | \$930.80    | \$1,588.10   | 75.74         |
| 40   | 3227-40XX | FLANGE | 18    | 18 | \$1,022.00  | \$1,688.80   | 80.41         |



- 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 dimension.



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

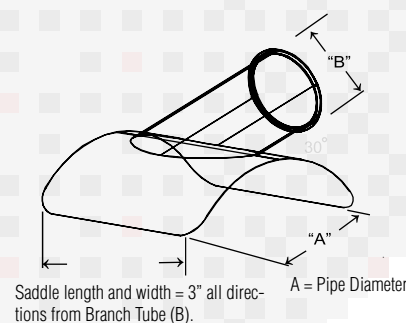
## QF In-Cut

| Ø<br>in | Part No.  | Ends   | Gauge |    | Galv. Price | SS 304 Price | Weight (Galv) |
|---------|-----------|--------|-------|----|-------------|--------------|---------------|
|         |           |        | Galv  | SS |             |              |               |
| 3       | 3223-XX03 | QF     | 22    | 22 | \$48.20     | \$94.80      | 1.25          |
| 4       | 3223-XX04 | QF     | 22    | 22 | \$48.20     | \$94.80      | 1.48          |
| 5       | 3223-XX05 | QF     | 22    | 22 | \$49.40     | \$97.30      | 2.15          |
| 6       | 3223-XX06 | QF     | 22    | 22 | \$53.10     | \$103.10     | 2.84          |
| 7       | 3223-XX07 | QF     | 22    | 22 | \$56.10     | \$109.80     | 3.53          |
| 8       | 3223-XX08 | QF     | 22    | 22 | \$58.80     | \$115.20     | 4.48          |
| 9       | 3223-XX09 | QF     | 22    | 22 | \$61.30     | \$121.50     | 5.38          |
| 10      | 3223-XX10 | QF     | 22    | 22 | \$66.40     | \$129.60     | 6.47          |
| 11      | 3223-XX11 | QF     | 22    | 22 | \$71.50     | \$138.70     | 7.62          |
| 12      | 3223-XX12 | QF     | 22    | 22 | \$71.50     | \$138.70     | 8.77          |
| 13      | 3223-XX13 | QF     | 20    | 20 | \$80.80     | \$158.60     | 11.23         |
| 14      | 3223-XX14 | QF     | 20    | 20 | \$80.80     | \$158.60     | 13.68         |
| 15      | 3223-XX15 | QF     | 20    | 20 | \$91.10     | \$178.00     | 15.79         |
| 16      | 3223-XX16 | QF     | 20    | 20 | \$91.10     | \$178.00     | 17.20         |
| 17      | 3223-XX17 | QF     | 20    | 20 | \$101.20    | \$198.50     | 19.26         |
| 18      | 3223-XX18 | QF     | 20    | 20 | \$101.20    | \$198.50     | 21.29         |
| 20      | 3223-XX20 | QF     | 20    | 20 | \$160.90    | \$237.40     | 25.58         |
| 22      | 3223-XX22 | QF     | 20    | 20 | \$221.30    | \$517.30     | 30.47         |
| 24      | 3223-XX24 | QF     | 20    | 20 | \$254.60    | \$594.90     | 35.36         |
| 26      | 3223-XX26 | FLANGE | 18    | 18 | \$320.80    | \$865.40     | 40.28         |
| 28      | 3223-XX28 | FLANGE | 18    | 18 | \$350.70    | \$941.90     | 45.01         |
| 30      | 3223-XX30 | FLANGE | 18    | 18 | \$388.10    | \$1,018.80   | 56.53         |
| 32      | 3223-XX32 | FLANGE | 18    | 18 | \$425.60    | \$1,039.40   | 62.97         |
| 34      | 3223-XX34 | FLANGE | 18    | 18 | \$515.60    | \$1,075.30   | 67.42         |
| 36      | 3223-XX36 | FLANGE | 18    | 18 | \$568.40    | \$1,101.20   | 71.38         |
| 38      | 3223-XX38 | FLANGE | 18    | 18 | \$600.00    | \$1,216.50   | 76.74         |
| 40      | 3223-XX40 | FLANGE | 18    | 18 | \$631.40    | \$1,294.50   | 81.41         |

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



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



BRANCHES

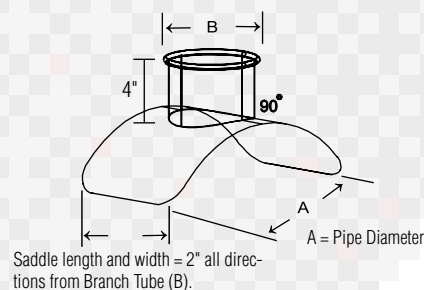
## QF Tap In

| Ø<br>in | Part No.  | Ends   | Gauge |    | Galv. Price | SS 304 Price | Weight (Galv) |
|---------|-----------|--------|-------|----|-------------|--------------|---------------|
|         |           |        | Galv  | SS |             |              |               |
| 3       | 3224-XX03 | QF     | 22    | 22 | \$48.20     | \$94.80      | 0.45          |
| 4       | 3224-XX04 | QF     | 22    | 22 | \$48.20     | \$94.80      | 0.62          |
| 5       | 3224-XX05 | QF     | 22    | 22 | \$49.40     | \$97.30      | 0.84          |
| 6       | 3224-XX06 | QF     | 22    | 22 | \$53.10     | \$103.10     | 1.12          |
| 7       | 3224-XX07 | QF     | 22    | 22 | \$56.10     | \$109.80     | 1.35          |
| 8       | 3224-XX08 | QF     | 22    | 22 | \$58.80     | \$115.20     | 1.63          |
| 9       | 3224-XX09 | QF     | 22    | 22 | \$61.30     | \$121.50     | 1.94          |
| 10      | 3224-XX10 | QF     | 22    | 22 | \$66.40     | \$129.60     | 2.26          |
| 11      | 3224-XX11 | QF     | 22    | 22 | \$71.50     | \$138.70     | 2.47          |
| 12      | 3224-XX12 | QF     | 22    | 22 | \$71.50     | \$138.70     | 2.92          |
| 13      | 3224-XX13 | QF     | 20    | 20 | \$80.80     | \$158.60     | 3.30          |
| 14      | 3224-XX14 | QF     | 20    | 20 | \$80.80     | \$158.60     | 4.41          |
| 15      | 3224-XX15 | QF     | 20    | 20 | \$91.10     | \$178.00     | 5.10          |
| 16      | 3224-XX16 | QF     | 20    | 20 | \$91.10     | \$178.00     | 5.60          |
| 17      | 3224-XX17 | QF     | 20    | 20 | \$101.20    | \$198.50     | 6.10          |
| 18      | 3224-XX18 | QF     | 20    | 20 | \$101.20    | \$198.50     | 6.74          |
| 20      | 3224-XX20 | QF     | 20    | 20 | \$160.90    | \$237.40     | 7.68          |
| 22      | 3224-XX22 | QF     | 20    | 20 | \$221.30    | \$517.30     | 8.94          |
| 24      | 3224-XX24 | QF     | 20    | 20 | \$254.60    | \$594.90     | 11.25         |
| 26      | 3224-XX26 | FLANGE | 18    | 18 | \$309.00    | \$865.40     | 35.28         |
| 28      | 3224-XX28 | FLANGE | 18    | 18 | \$350.70    | \$941.90     | 40.00         |
| 30      | 3224-XX30 | FLANGE | 18    | 18 | \$388.10    | \$1,018.80   | 51.53         |
| 32      | 3224-XX32 | FLANGE | 18    | 18 | \$425.60    | \$1,039.40   | 57.97         |
| 34      | 3224-XX34 | FLANGE | 18    | 18 | \$515.60    | \$1,075.30   | 62.42         |
| 36      | 3224-XX36 | FLANGE | 18    | 18 | \$568.40    | \$1,101.20   | 66.38         |
| 38      | 3224-XX38 | FLANGE | 18    | 18 | \$600.00    | \$1,216.50   | 71.74         |
| 40      | 3224-XX40 | FLANGE | 18    | 18 | \$631.40    | \$1,294.50   | 79.41         |

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



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



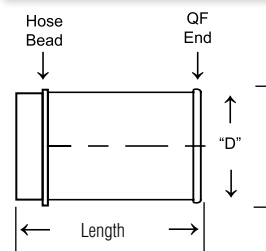
## QF Hose Adapter

| Ø in | Part No.  | Approx. Length | Gauge | Galv Price | SS 304 Price | Weight Galv |
|------|-----------|----------------|-------|------------|--------------|-------------|
| 3    | 3282-0300 | 5.5            | 22    | \$20.10 #  | \$37.20      | 0.60        |
| 4    | 3282-0400 | 4              | 22    | \$20.10 #  | \$37.20      | 0.75        |
| 5    | 3282-0500 | 4              | 22    | \$22.40 #  | \$42.70      | 0.95        |
| 6    | 3282-0600 | 4              | 22    | \$26.30 #  | \$51.10      | 1.10        |
| 7    | 3282-0700 | 4              | 22    | \$28.30 #  | \$55.00      | 1.35        |
| 8    | 3282-0800 | 4              | 22    | \$30.40 #  | \$59.10      | 1.50        |
| 9    | 3282-0900 | 4              | 22    | \$32.10    | \$63.10      | 1.75        |
| 10   | 3282-1000 | 4              | 22    | \$34.20    | \$67.00      | 1.95        |
| 11   | 3282-1100 | 4              | 22    | \$36.60    | \$70.90      | 2.10        |
| 12   | 3282-1200 | 4              | 22    | \$36.60    | \$70.90      | 2.30        |
| 13   | 3282-1300 | 5.5            | 20    | \$38.60    | \$74.80      | 2.45        |
| 14   | 3282-1400 | 5.5            | 20    | \$38.60    | \$74.80      | 2.70        |
| 15   | 3282-1500 | 5.5            | 20    | \$40.40    | \$80.00      | 3.05        |
| 16   | 3282-1600 | 5.5            | 20    | \$40.40    | \$80.00      | 3.20        |
| 17   | 3282-1700 | 5.5            | 20    | \$44.50    | \$86.50      | 3.32        |
| 18   | 3282-1800 | 5.5            | 20    | \$44.50    | \$86.50      | 3.45        |
| 20   | 3282-2000 | 5.5            | 20    | \$46.00    | \$90.50      | 3.90        |
| 22   | 3282-2200 | 5.5            | 20    | \$50.60    | \$95.70      | 4.30        |
| 24   | 3282-2400 | 5.5            | 20    | \$58.10    | \$109.90     | 5.60        |

\*Published lengths are nominal and may vary slightly



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



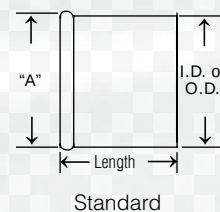
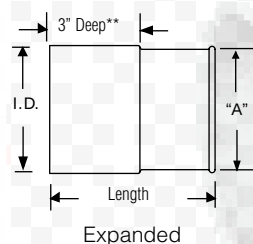
## QF Machine Adapter

| Ø in | Part No.  | Raw End ID in | Raw End OD in | Gauge | Approx. Length in | Maximum Open Dim. ID in | Galv Price | SS 304 Price | Weight Galv |
|------|-----------|---------------|---------------|-------|-------------------|-------------------------|------------|--------------|-------------|
| 3    | 3249-0300 | 2.90          | 3.00          | 22    | 5.5               | 3.18                    | \$19.80 #  | \$36.50      | 0.60        |
| 4    | 3249-0400 | 3.86          | 3.93          | 22    | 4                 | 4.30                    | \$19.80 #  | \$36.50      | 0.75        |
| 5    | 3249-0500 | 4.87          | 4.94          | 22    | 4                 | 5.30                    | \$21.90 #  | \$42.00      | 0.95        |
| 6    | 3249-0600 | 5.89          | 5.96          | 22    | 4                 | 6.30                    | \$25.80 #  | \$50.30      | 1.10        |
| 7    | 3249-0700 | 6.89          | 6.96          | 22    | 4                 | 7.30                    | \$27.70 #  | \$54.10      | 1.35        |
| 8    | 3249-0800 | 7.88          | 7.95          | 22    | 4                 | 8.30                    | \$29.80 #  | \$58.20      | 1.50        |
| 9    | 3249-0900 | 8.88          | 8.95          | 22    | 4                 | 9.30                    | \$31.50 #  | \$62.00      | 1.75        |
| 10   | 3249-1000 | 9.89          | 9.95          | 22    | 4                 | 10.30                   | \$33.60 #  | \$65.80      | 1.95        |
| 11   | 3249-1100 | 10.88         | 10.94         | 22    | 4                 | 11.30                   | \$35.70    | \$69.60      | 2.10        |
| 12   | 3249-1200 | 11.97         | 12.04         | 22    | 4                 | 12.30                   | \$35.70 #  | \$69.60      | 2.30        |
| 13   | 3249-1300 | 12.97         | 13.05         | 20    | 5.5               | 13.30                   | \$37.90    | \$73.50      | 2.45        |
| 14   | 3249-1400 | 13.96         | 14.04         | 20    | 5.5               | 14.30                   | \$37.90 #  | \$73.50      | 2.70        |
| 15   | 3249-1500 | 14.97         | 15.04         | 20    | 5.5               | 15.30                   | \$39.60    | \$78.60      | 3.05        |
| 16   | 3249-1600 | 15.97         | 16.04         | 20    | 5.5               | 16.30                   | \$39.60 #  | \$78.60      | 3.20        |
| 17   | 3249-1700 | 16.97         | 17.05         | 20    | 5.5               | 17.30                   | \$43.70    | \$85.10      | 3.32        |
| 18   | 3249-1800 | 17.96         | 18.04         | 20    | 5.5               | 18.30                   | \$43.70 #  | \$85.10      | 3.45        |
| 20   | 3249-2000 | 19.96         | 20.04         | 20    | 5.5               | 20.30                   | \$45.20 #  | \$88.90      | 3.90        |
| 22   | 3249-2200 | 21.97         | 22.05         | 20    | 5.5               | 22.30                   | \$49.60 #  | \$94.00      | 4.30        |
| 24   | 3249-2400 | 23.94         | 24.02         | 20    | 5.5               | 24.30                   | \$57.20 #  | \$108.00     | 5.60        |

\*Published lengths are nominal and may vary slightly.



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



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

#-Denotes an item that is returnable. See page 51 for a full listing of returnable items.

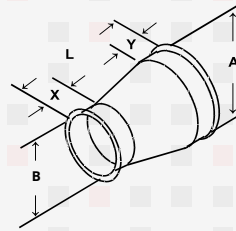
# QF Reducer

| Ø<br>in | PART NO.  | Ends   | Gauge |    | Galv.<br>Price | SS 304<br>Price | Weight<br>Galv |
|---------|-----------|--------|-------|----|----------------|-----------------|----------------|
|         |           |        | Galv  | SS |                |                 |                |
| 3       | 3222-03XX | QF     | 22    | 22 | \$45.10        | \$84.40         | 1.00           |
| 4       | 3222-04XX | QF     | 22    | 22 | \$45.10        | \$84.40         | 1.25           |
| 5       | 3222-05XX | QF     | 22    | 22 | \$45.90        | \$84.90         | 1.50           |
| 6       | 3222-06XX | QF     | 22    | 22 | \$48.30        | \$92.50         | 1.75           |
| 7       | 3222-07XX | QF     | 22    | 22 | \$48.60        | \$93.80         | 2.00           |
| 8       | 3222-08XX | QF     | 22    | 22 | \$49.50        | \$94.40         | 2.25           |
| 9       | 3222-09XX | QF     | 22    | 22 | \$56.10        | \$108.20        | 2.50           |
| 10      | 3222-10XX | QF     | 22    | 22 | \$57.00        | \$109.20        | 3.00           |
| 11      | 3222-11XX | QF     | 22    | 22 | \$67.20        | \$130.80        | 3.50           |
| 12      | 3222-12XX | QF     | 22    | 22 | \$67.20        | \$130.80        | 3.75           |
| 13      | 3222-13XX | QF     | 22    | 22 | \$80.10        | \$152.60        | 4.00           |
| 14      | 3222-14XX | QF     | 22    | 22 | \$80.10        | \$152.60        | 4.50           |
| 15      | 3222-15XX | QF     | 22    | 22 | \$110.50       | \$210.30        | 6.00           |
| 16      | 3222-16XX | QF     | 20    | 20 | \$110.50       | \$210.30        | 7.00           |
| 17      | 3222-17XX | QF     | 20    | 20 | \$115.30       | \$219.60        | 10.25          |
| 18      | 3222-18XX | QF     | 20    | 20 | \$115.30       | \$219.60        | 21.00          |
| 20      | 3222-20XX | QF     | 20    | 20 | \$122.50       | \$235.60        | 30.00          |
| 22      | 3222-22XX | QF     | 20    | 20 | \$139.50       | \$266.90        | 39.50          |
| 24      | 3222-24XX | QF     | 20    | 20 | \$153.70       | \$307.00        | 53.50          |
| 26      | 3222-26XX | FLANGE | 18    | 18 | \$168.40       | \$397.70        | 74.00          |
| 28      | 3222-28XX | FLANGE | 18    | 18 | \$185.80       | \$421.30        | 98.00          |
| 30      | 3222-30XX | FLANGE | 18    | 18 | \$202.40       | \$456.90        | 117.05         |
| 32      | 3222-32XX | FLANGE | 18    | 18 | \$223.60       | \$498.30        | 125.94         |
| 34      | 3222-34XX | FLANGE | 18    | 18 | \$245.20       | \$551.80        | 134.83         |
| 36      | 3222-36XX | FLANGE | 18    | 18 | \$270.40       | \$609.70        | 142.78         |
| 38      | 3222-38XX | FLANGE | 18    | 18 | \$298.10       | \$670.30        | 153.47         |
| 40      | 3222-40XX | FLANGE | 18    | 18 | \$327.70       | \$739.20        | 162.81         |

NOTE: See page 51 for returnable sizes



NOTE: See page 44 for ordering instructions



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

- 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.
- B end can be as small as 1".

# QF Transition Rectangular to Round\*

| Ø<br>in | SQ to SQ<br>Size | Part No.  | Ends   | Galv. Price | SS 304<br>Price | Weight<br>Galv |
|---------|------------------|-----------|--------|-------------|-----------------|----------------|
| 3       | 7                | 3225-03XX | QF     | \$93.50     | \$196.90        | 1.65           |
| 4       | 13               | 3225-04XX | QF     | \$93.50     | \$196.90        | 2.85           |
| 5       | 20               | 3225-05XX | QF     | \$97.00     | \$204.80        | 4.05           |
| 6       | 28               | 3225-06XX | QF     | \$100.50    | \$217.20        | 5.55           |
| 7       | 38               | 3225-07XX | QF     | \$106.90    | \$227.90        | 7.35           |
| 8       | 50               | 3225-08XX | QF     | \$111.80    | \$241.40        | 9.45           |
| 9       | 64               | 3225-09XX | QF     | \$115.70    | \$243.70        | 11.60          |
| 10      | 79               | 3225-10XX | QF     | \$119.80    | \$258.60        | 14.00          |
| 11      | 95               | 3225-11XX | QF     | \$122.00    | \$263.20        | 17.10          |
| 12      | 113              | 3225-12XX | QF     | \$122.00    | \$263.20        | 21.00          |
| 13      | 133              | 3225-13XX | QF     | \$126.50    | \$273.70        | 25.00          |
| 14      | 154              | 3225-14XX | QF     | \$126.50    | \$273.70        | 29.80          |
| 15      | 177              | 3225-15XX | QF     | \$132.70    | \$281.70        | 36.95          |
| 16      | 201              | 3225-16XX | QF     | \$132.70    | \$281.70        | 45.00          |
| 17      | 227              | 3225-17XX | QF     | \$136.70    | \$297.80        | 53.05          |
| 18      | 255              | 3225-18XX | QF     | \$136.70    | \$297.80        | 61.10          |
| 20      | 314              | 3225-20XX | QF     | \$141.40    | \$304.70        | 70.90          |
| 22      | 380              | 3225-22XX | QF     | \$169.10    | \$362.10        | 82.00          |
| 24      | 452              | 3225-24XX | QF     | \$194.70    | \$416.50        | 94.40          |
| 26      | 531              | 3225-26XX | FLANGE | \$304.40    | \$700.10        | 112.40         |
| 28      | 616              | 3225-28XX | FLANGE | \$405.10    | \$931.70        | 132.00         |
| 30      | 707              | 3225-30XX | FLANGE | \$512.70    | \$1,179.20      | 154.40         |
| 32      | 804              | 3225-32XX | FLANGE | \$667.50    | \$1,535.30      | 176.20         |
| 34      | 908              | 3225-34XX | FLANGE | \$833.30    | \$1,916.60      | 200.60         |
| 36      | 1018             | 3225-36XX | FLANGE | \$1,041.40  | \$2,395.20      | 224.50         |
| 38      | 1134             | 3225-38XX | FLANGE | \$1,264.00  | \$2,907.20      | 248.20         |
| 40      | 1257             | 3225-40XX | FLANGE | \$1,584.40  | \$3,644.10      | 272.40         |

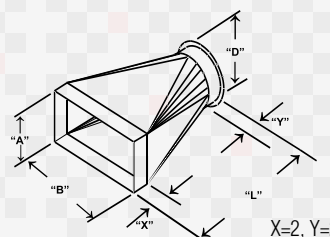


See page 45 for additional transition ordering instructions and notes

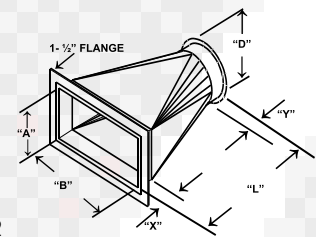
- Priced by largest area of opening - either round end (D) or the Area of Diameter closest to the squared area of the rectangular end (A x B=SQ).

- Pricing for Style 1 only.

\* Pricing based on a sheet metal flange (SMFL), raw, or hemmed end; Angle Flange or Flat Flange cost not included in price. See Angle Flange pricing on pg. 9 (use Round equivalent).



STYLE #1  
(Prices shown)



STYLE #2  
(Add cost of flange)

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

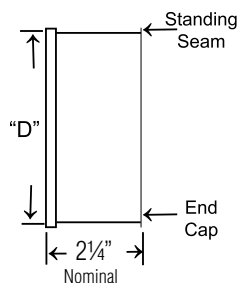
## QF End Cap

| Ø<br>in | PART NO.  | Ends | Gauge |    | Galv. Price | SS 304<br>Price | Weight<br>Galv |
|---------|-----------|------|-------|----|-------------|-----------------|----------------|
|         |           |      | Galv  | SS |             |                 |                |
| 3       | 3151-0300 | QF   | 18    | 18 | \$13.70     | \$27.00         | 0.30           |
| 4       | 3151-0400 |      | 22    | 22 | \$13.70     | \$27.00         | 0.37           |
| 5       | 3151-0500 |      | 22    | 22 | \$14.80     | \$29.90         | 0.50           |
| 6       | 3151-0600 |      | 22    | 22 | \$16.70     | \$33.10         | 0.72           |
| 7       | 3151-0700 |      | 22    | 22 | \$18.80     | \$37.50         | 0.92           |
| 8       | 3151-0800 |      | 22    | 22 | \$19.90     | \$40.40         | 1.10           |
| 9       | 3151-0900 |      | 22    | 22 | \$21.80     | \$43.50         | 1.40           |
| 10      | 3151-1000 |      | 22    | 22 | \$22.80     | \$46.60         | 1.65           |
| 11      | 3151-1100 |      | 22    | 22 | \$24.00     | \$49.70         | 1.85           |
| 12      | 3151-1200 |      | 22    | 22 | \$24.00     | \$49.70         | 2.05           |
| 13      | 3151-1300 |      | 20    | 20 | \$25.60     | \$52.50         | 2.45           |
| 14      | 3151-1400 |      | 20    | 20 | \$25.60     | \$52.50         | 3.10           |
| 15      | 3151-1500 |      | 20    | 20 | \$26.90     | \$55.40         | 3.55           |
| 16      | 3151-1600 |      | 20    | 20 | \$26.90     | \$55.40         | 4.00           |
| 17      | 3151-1700 |      | 20    | 20 | \$28.50     | \$58.30         | 4.45           |
| 18      | 3151-1800 |      | 20    | 20 | \$28.50     | \$58.30         | 4.90           |
| 20      | 3151-2000 |      | 20    | 20 | \$30.40     | \$63.00         | 5.45           |
| 22      | 3151-2200 |      | 20    | 20 | \$31.40     | \$77.40         | 6.30           |
| 24      | 3151-2400 |      | 20    | 20 | \$36.20     | \$88.90         | 7.90           |



Part No. 3151

- End Caps enable users to close off taps for future use.
- End Caps larger than 24" will be a flat plate and angle ring. Call for pricing.



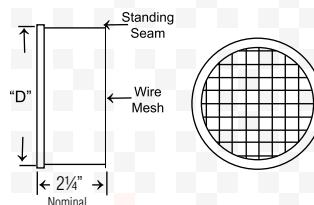
## QF End Cap with Birdscreen

| Ø<br>in | Part No.  | Ends | Gauge |    | Galv. Price | SS 304<br>Price | Weight<br>Galv |
|---------|-----------|------|-------|----|-------------|-----------------|----------------|
|         |           |      | Galv  | SS |             |                 |                |
| 3       | 3152-0300 | QF   | 18    | 18 | \$34.70     | \$39.30         | 0.25           |
| 4       | 3152-0400 |      | 22    | 22 | \$34.70     | \$39.30         | 0.30           |
| 5       | 3152-0500 |      | 22    | 22 | \$36.20     | \$42.20         | 0.35           |
| 6       | 3152-0600 |      | 22    | 22 | \$37.60     | \$45.30         | 0.52           |
| 7       | 3152-0700 |      | 22    | 22 | \$40.10     | \$49.80         | 0.60           |
| 8       | 3152-0800 |      | 22    | 22 | \$41.10     | \$52.80         | 0.70           |
| 9       | 3152-0900 |      | 22    | 22 | \$43.00     | \$55.90         | 0.80           |
| 10      | 3152-1000 |      | 22    | 22 | \$43.90     | \$59.00         | 0.90           |
| 11      | 3152-1100 |      | 22    | 22 | \$45.30     | \$62.00         | 0.95           |
| 12      | 3152-1200 |      | 22    | 22 | \$45.30     | \$62.00         | 1.00           |
| 13      | 3152-1300 |      | 20    | 20 | \$46.70     | \$65.00         | 1.15           |
| 14      | 3152-1400 |      | 20    | 20 | \$46.70     | \$65.00         | 1.25           |
| 15      | 3152-1500 |      | 20    | 20 | \$47.90     | \$68.00         | 1.36           |
| 16      | 3152-1600 |      | 20    | 20 | \$47.90     | \$68.00         | 1.48           |
| 17      | 3152-1700 |      | 20    | 20 | \$49.90     | \$70.90         | 1.60           |
| 18      | 3152-1800 |      | 20    | 20 | \$49.90     | \$70.90         | 1.75           |
| 20      | 3152-2000 |      | 20    | 20 | \$51.50     | \$75.50         | 1.90           |
| 22      | 3152-2200 |      | 20    | 20 | \$52.60     | \$90.10         | 2.10           |
| 24      | 3152-2400 |      | 20    | 20 | \$60.30     | \$103.50        | 2.85           |



Part No. 3152

- End cap with birdscreen 1/2" wire mesh.
- End Caps larger than 24" will have expanded metal. Call for pricing.



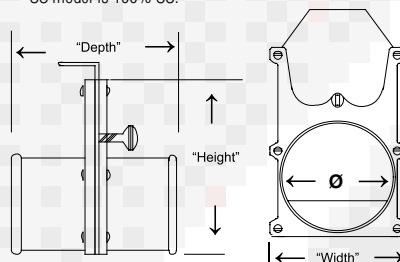
## QF Blast Gate Manual

| Ø in | 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     | \$44.10 #  | \$174.50       | 1.50        |
| 4    | 3240-0400 | QF     | 5.25       | 7.00        | 5.50       | 6.00     | 7.50      | 5.25     | \$44.10 #  | \$174.50       | 2.25        |
| 5    | 3240-0500 | QF     | 6.12       | 6.25        | 5.75       | 7.00     | 10.50     | 5.00     | \$45.90 #  | \$204.80       | 3.00        |
| 6    | 3240-0600 | QF     | 7.00       | 10.00       | 5.75       | 8.00     | 11.00     | 5.00     | \$60.30 #  | \$272.60       | 3.75        |
| 7    | 3240-0700 | QF     | 8.00       | 11.12       | 5.38       | 9.00     | 12.00     | 5.00     | \$74.70 #  | \$291.30       | 4.50        |
| 8    | 3240-0800 | QF     | 9.37       | 12.00       | 5.50       | 10.00    | 13.50     | 5.00     | \$88.40 #  | \$295.70       | 5.50        |
| 9    | 3240-0900 | QF     | 11.00      | 13.25       | 5.50       | 11.00    | 15.00     | 5.00     | \$124.30 # | \$380.90       | 7.00        |
| 10   | 3240-1000 | QF     | 11.37      | 14.37       | 5.50       | 12.00    | 17.00     | 5.00     | \$155.40 # | \$411.20       | 7.50        |
| 11 ◇ | 3240-1100 | QF     | 11.37      | 14.37       | 5.50       | 13.00    | 19.00     | 5.00     | \$201.50   | \$470.60       | 9.50        |
| 12   | 3240-1200 | QF     | 13.50      | 16.25       | 5.25       | 14.00    | 20.50     | 5.00     | \$201.50 # | \$519.80       | 13.00       |
| 14   | 3240-1400 | QF     | 15.75      | 17.87       | 5.25       | 16.00    | 23.25     | 5.00     | \$298.80 # | \$600.60       | 16.00       |
| 16 ◇ | 3240-1600 | QF     | 18.00      | 28.50       | 11.25      | CALL     | CALL      | CALL     | \$434.90   | \$1,004.90     | 21.20       |
| 18 ◇ | 3240-1800 | QF     | 20.80      | 32.75       | 11.25      | CALL     | CALL      | CALL     | \$533.50   | \$1,143.50     | 25.00       |
| 20 ◇ | 3240-2000 | QF     | 22.25      | 34.00       | 11.25      | CALL     | CALL      | CALL     | \$660.40   | \$1,607.80     | 30.00       |
| 22 ◇ | 3240-2200 | QF     | 24.25      | 33.50       | 11.25      | CALL     | CALL      | CALL     | \$720.80   | \$1,649.80     | 34.00       |
| 24 ◇ | 3240-2400 | QF     | 26.25      | 33.50       | 11.25      | CALL     | CALL      | CALL     | \$852.00   | \$1,697.20     | 38.00       |
| 26 ◇ | 3240-2600 | FLANGE | 29.25      | 47.50       | CALL       | CALL     | CALL      | CALL     | \$1,445.70 | CALL           | 62.00       |
| 28 ◇ | 3240-2800 | FLANGE | 30.25      | 47.50       | CALL       | CALL     | CALL      | CALL     | \$1,673.20 | CALL           | 72.00       |
| 30 ◇ | 3240-3000 | FLANGE | 33.25      | 55.75       | CALL       | CALL     | CALL      | CALL     | \$2,053.50 | CALL           | 97.00       |

◇ SS Blast Gates have a lead time of 7 days minimum.



- Manually operated, cast aluminum body with galvanized blade and standard QF connection, unless otherwise specified. SS model is 100% SS.



## QF Blast Gate NFMES

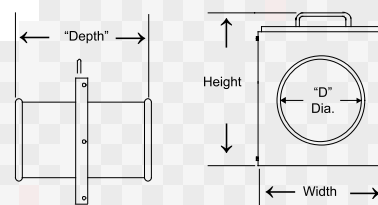
| Ø in | Part No.  | Ends | Galv Width | Galv Height | Galv Depth | Galv Price | SS 304 Price ◇ | Weight Galv |
|------|-----------|------|------------|-------------|------------|------------|----------------|-------------|
| 3    | 3241-0300 | QF   | 5.25       | 7.00        | 5.375      | \$309.00   | \$529.80       | N/A         |
| 4    | 3241-0400 |      | 6.12       | 6.25        | 5.375      | \$309.00   | \$529.80       | 2.70        |
| 5    | 3241-0500 |      | 7.00       | 10.00       | 5          | \$326.50   | \$560.20       | 3.30        |
| 6    | 3241-0600 |      | 8.00       | 11.12       | 5          | \$335.50   | \$575.40       | 5.90        |
| 7    | 3241-0700 |      | 9.37       | 12.00       | 5          | \$360.20   | \$617.60       | 6.00        |
| 8    | 3241-0800 |      | 11.00      | 13.25       | 5          | \$372.40   | \$638.80       | 6.75        |
| 9    | 3241-0900 |      | 11.37      | 14.37       | 5          | \$395.50   | \$678.20       | 7.50        |
| 10   | 3241-1000 |      | 13.50      | 16.25       | 5          | \$441.50   | \$756.90       | 9.12        |
| 12   | 3241-1200 |      | 15.75      | 17.87       | 5          | \$457.30   | \$784.10       | 13.00       |
| 14   | 3241-1400 |      | 18.00      | 28.50       | 5          | \$469.70   | \$805.40       | 18.25       |
| 16 ◇ | 3241-1600 |      | 18.00      | 28.50       | 5          | \$499.60   | \$845.00       | 21.50       |

◇ SS Blast Gates have a lead time of 7 days minimum.



- Manually operated, energy saving blast gates. These compact and easy to operate gates are constructed of galvanized metal or 304SS with a special sealing device that reduces air loss and friction in operation.

- Other sizes available upon request.



◇ SS Blast Gates have a production time of **7 business days** minimum

#-Denotes an item that is returnable. See page 51 for a full listing of returnable items.

# QF Blast Gate NFES Automatic

| Ø in | Part No.  | Ends | A in  | B in  | C in  | D in  | Galv. Price | SS 304 Price ♦ | Weight Galv |
|------|-----------|------|-------|-------|-------|-------|-------------|----------------|-------------|
| 3    | 3245-0300 | QF   | 16.00 | 6.38  | 5.50  | 5.50  | \$824.00 #  | \$1,756.00     | 9.83        |
| 4    | 3245-0400 |      | 16.00 | 6.30  | 5.50  | 5.11  | \$824.00 #  | \$1,756.00     | 9.90        |
| 5    | 3245-0500 |      | 17.50 | 7.50  | 5.25  | 6.00  | \$865.20 #  | \$1,765.20     | 11.90       |
| 6    | 3245-0600 |      | 20.50 | 8.66  | 5.25  | 7.00  | \$865.20 #  | \$1,774.20     | 15.15       |
| 7    | 3245-0700 |      | 22.00 | 9.44  | 5.25  | 7.25  | \$885.80 #  | \$1,783.20     | 18.85       |
| 8    | 3245-0800 |      | 25.50 | 10.25 | 5.25  | 8.25  | \$885.80 #  | \$1,949.70     | 27.50       |
| 9    | 3245-0900 |      | 33.00 | 17.36 | 9.00  | 14.17 | \$927.00    | \$2,449.40     | 37.50       |
| 10   | 3245-1000 |      | 33.00 | 17.36 | 9.00  | 14.17 | \$952.80    | \$2,494.80     | 37.50       |
| 12   | 3245-1200 |      | 38.50 | 20.00 | 9.00  | 15.50 | \$978.50    | \$2,640.10     | 44.00       |
| 14   | 3245-1400 |      | 41.00 | 23.30 | 12.00 | 16.00 | \$1,091.80  | \$2,797.50     | 50.00       |
| 16 ♦ | 3245-1600 |      | 45.00 | 23.30 | 12.00 | 17.12 | \$1,236.00  | \$2,894.50     | 63.00       |
| 18 ♦ | 3245-1800 |      | 48.50 | 25.25 | 12.00 | 18.00 | \$1,328.70  | \$3,246.60     | 74.00       |
| 20 ♦ | 3245-2000 |      | 52.50 | 27.20 | 12.00 | 19.00 | \$1,442.00  | \$3,496.90     | 83.00       |
| 22 ♦ | 3245-2200 |      | 57.50 | 29.50 | 12.00 | 20.27 | \$1,493.50  | \$3,784.50     | 104.00      |

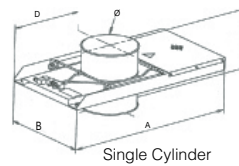


PART NO. 3245

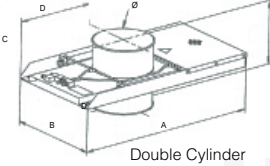
- Automatic energy saving blast gates operated by compressed air cylinders. Cylinders are controlled by electrically-connected solenoid to machines or remote switch. Gates are constructed of galvanized metal or SS (optional) and a special sealing device that reduces air loss and friction in operation. 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 continuous extraction is not always needed and where manual control needs to be eliminated.
- Single cylinder: 3" to 8". Double cylinder 9" to 22".
- All auto blast gates have cylinders with galvanized or SS body and steel rod. Solenoid has plastic housing.

♦ SS Blast Gates have a production time of **7 business days** minimum.

All cylinders are magnetic.



Single Cylinder



Double Cylinder

## BLAST GATES

# Reed Switch Assembly 1.06

| Part No.         | Price Per Assembly |
|------------------|--------------------|
| 3245-0000-RSW106 | \$84.40            |

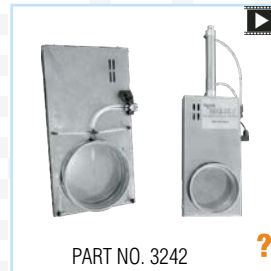
- **Optional** position (open/closed) sensing switch with indicator light.
- Assembly includes two switches, one indicating open position and one indicating closed position.
- Applies to both styles of automatic Blast Gate.



Cylinder with reed switches attached shown above

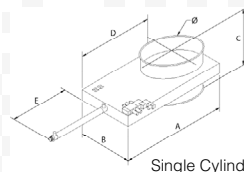
# QF SD Automatic Blast Gate

| Ø in | Part No.  | Ends | A in  | B in  | C in  | D in  | E in  | Galv Price | Weight Galv |
|------|-----------|------|-------|-------|-------|-------|-------|------------|-------------|
| 3    | 3242-0300 | QF   | 8.11  | 4.25  | 5.25  | 6.30  | 8.50  | \$515.00   | 9.83        |
| 4    | 3242-0400 |      | 10.31 | 5.30  | 5.50  | 7.81  | 8.50  | \$515.00   | 9.90        |
| 5    | 3242-0500 |      | 12.80 | 6.00  | 5.75  | 9.88  | 9.50  | \$525.30   | 11.90       |
| 6    | 3242-0600 |      | 14.47 | 7.12  | 5.75  | 11.28 | 11.50 | \$525.30   | 15.15       |
| 7    | 3242-0700 |      | 16.25 | 8.00  | 5.38  | 12.44 | 11.50 | \$566.50   | 18.85       |
| 8    | 3242-0800 |      | 18.75 | 9.30  | 5.50  | 14.38 | 13.50 | \$618.00   | 27.50       |
| 9    | 3242-0900 |      | 20.63 | 10.63 | 5.50  | 15.88 | 13.50 | \$643.80   | 37.50       |
| 10   | 3242-1000 |      | 22.63 | 11.65 | 5.50  | 17.25 | 13.50 | \$643.80   | 37.50       |
| 12   | 3242-1200 |      | 30.00 | 16.00 | 5.25  | 23.25 | N/A   | \$669.50   | 44.00       |
| 14   | 3242-1400 |      | 33.04 | 18.38 | 5.25  | 25.29 | N/A   | \$746.80   | 50.00       |
| 16 ♦ | 3242-1600 |      | 38.52 | 20.38 | 11.25 | 29.65 | N/A   | \$834.30   | 63.00       |
| 18 ♦ | 3242-1800 |      | 46.69 | 22.38 | 11.25 | 37.04 | N/A   | \$927.00   | 74.00       |
| 20 ♦ | 3242-2000 |      | 48.69 | 24.38 | 11.25 | 38.04 | N/A   | \$999.10   | 83.00       |
| 22 ♦ | 3242-2200 |      | 50.69 | 26.38 | 11.25 | 39.04 | N/A   | \$1,091.80 | 104.00      |
| 24 ♦ | 3242-2400 |      | 55.50 | 31.28 | 11.25 | 42.40 | N/A   | \$1,215.40 | 125.00      |

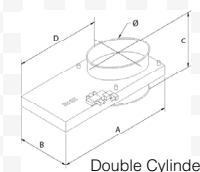


PART NO. 3242

- 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".
- Double cylinder 12" to 22".
- Not available in SS.



Single Cylinder



Double Cylinder

♦ Items may take longer than standard lead times.

#-Denotes an item that is returnable. See page 51 for a full listing of returnable items.

## Rubber Hose, Black

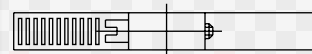
| Ø in | Part No.         | Price PER FOOT | WEIGHT |
|------|------------------|----------------|--------|
| 1    | 3280-0100-000000 | \$4.20         | 0.14   |
| 1.5  | 3280-1500-000000 | \$4.20         | 0.17   |
| 2    | 3280-0200-000000 | \$4.50         | 0.24   |
| 2.5  | 3280-2500-000000 | \$5.70         | 0.27   |
| 3    | 3280-0300-000000 | \$6.80         | 0.34   |
| 3.5  | 3280-3500-000000 | \$7.00         | 0.39   |
| 4    | 3280-0400-000000 | \$7.00         | 0.50   |
| 5    | 3280-0500-000000 | \$9.00         | 0.64   |
| 5.5  | 3280-5500-000000 | \$10.20        | 0.71   |
| 6    | 3280-0600-000000 | \$11.40        | 0.91   |
| 7    | 3280-0700-000000 | \$13.20        | 1.00   |
| 8    | 3280-0800-000000 | \$14.60        | 1.04   |
| 9    | 3280-0900-000000 | \$21.90        | 1.20   |
| 10   | 3280-1000-000000 | \$22.70        | 1.60   |
| 12   | 3280-1200-000000 | \$23.40        | 2.00   |
| 14   | 3280-1400-000000 | \$35.10        | 2.40   |
| 16   | 3280-1600-000000 | \$40.40        | 2.80   |
| 18   | 3280-1800-000000 | \$45.80        | 3.60   |
| 20   | 3280-2000-000000 | \$48.90        | 4.00   |
| 22   | 3280-2200-000000 | \$56.40        | 5.00   |
| 24   | 3280-2400-000000 | \$64.90        | 6.00   |



- Black thermoplastic flexible rubber hose reinforced with spring steel wire helix.
- Order hose clamps separately.
- 3" - 12" is sold in 5' increments up to 50' maximum.
- 14" - 24" sold in 5' increments up to 25' maximum.
- Use #3282 Hose Adapter with this hose.



• Stainless Steel Only



## Hose Clamp

| Ø in | Part No.  | SS 304 Price | Weight |
|------|-----------|--------------|--------|
| 2    | 3285-0200 | \$2.50       | 0.05 # |
| 3    | 3285-0300 | \$2.50       | 0.06 # |
| 4    | 3285-0400 | \$4.10       | 0.07 # |
| 5    | 3285-0500 | \$4.10       | 0.08 # |
| 6    | 3285-0600 | \$5.10       | 0.09 # |
| 7    | 3285-0700 | \$6.00       | 0.10 # |
| 8    | 3285-0800 | \$7.60       | 0.14 # |
| 9    | 3285-0900 | \$8.20       | 0.15 # |
| 10   | 3285-1000 | \$8.60       | 0.17 # |
| 12   | 3285-1200 | \$12.40      | 0.20 # |
| 14   | 3285-1400 | \$13.20      | 0.25   |
| 16   | 3285-1600 | \$15.00      | 0.30   |
| 18   | 3285-1800 | \$15.90      | 0.40   |
| 20   | 3285-2000 | \$17.00      | 0.45   |
| 22   | 3285-2200 | \$18.60      | 0.50   |
| 24   | 3285-2400 | \$20.30      | 0.60   |

## Rubber Hose, Clear

| Ø in | Part No.         | Price per Foot | Weight |
|------|------------------|----------------|--------|
| 1    | 3280-0100-700000 | N/A            | 0.14   |
| 1.5  | 3280-1500-700000 | N/A            | 0.17   |
| 2    | 3280-0200-700000 | \$5.40         | 0.24   |
| 2.5  | 3280-2500-700000 | \$6.60         | 0.27   |
| 3    | 3280-0300-700000 | \$7.90         | 0.34   |
| 4    | 3280-0400-700000 | \$9.10         | 0.50   |
| 5    | 3280-0500-700000 | \$10.50        | 0.64   |
| 5.5  | 3280-5500-700000 | \$10.90        | 0.71   |
| 6    | 3280-0600-700000 | \$13.50        | 0.91   |
| 7    | 3280-0700-700000 | \$15.10        | 1.00   |
| 8    | 3280-0800-700000 | \$17.40        | 1.04   |
| 9    | 3280-0900-700000 | \$24.00        | 1.20   |
| 10   | 3280-1000-700000 | \$26.10        | 1.60   |
| 12   | 3280-1200-700000 | \$26.50        | 2.00   |
| 14   | 3280-1400-700000 | \$39.10        | 2.40   |
| 16   | 3280-1600-700000 | \$45.20        | 2.80   |
| 18   | 3280-1800-700000 | N/A            | 3.60   |
| 20   | 3280-2000-700000 | N/A            | 4.00   |
| 22   | 3280-2200-700000 | N/A            | 5.00   |
| 24   | 3280-2400-700000 | N/A            | 6.00   |



- Clear PVC flexible rubber hose reinforced with spring steel wire helix, manufactured with FDA acceptable materials. For non-abrasive applications.
- Order hose clamps separately.
- 3" - 12" is sold in 5' increments up to 50' maximum.
- 14" - 16" sold in 5' increments up to 25' maximum.
- Inquire for pricing on 18" and larger, special order with a 25' minimum purchase.
- Use #3282 Hose Adapter with this hose.



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

## Static Dissipative Urethane Hose, Clear

| Ø in | Part No.  | Price per Foot | Weight (lbs/ft) |
|------|-----------|----------------|-----------------|
| 3    | 3279-0300 | \$13.70        | 0.40            |
| 4    | 3279-0400 | \$16.20        | 0.70            |
| 5    | 3279-0500 | \$21.70        | 0.90            |
| 6    | 3279-0600 | \$24.00        | 1.00            |
| 8    | 3279-0800 | \$26.80        | 1.50            |
| 10   | 3279-1000 | \$34.00        | 1.60            |
| 12   | 3279-1200 | \$47.70        | 2.00            |



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

## Bridge Clamp for Hose

| Ø in | Part No.  | SS 304 Price | Weight |
|------|-----------|--------------|--------|
| 2    | 3288-0200 | \$5.60       | 0.05   |
| 2.5  | 3288-0250 | \$6.00       | 0.06   |
| 3    | 3288-0300 | \$5.90       | 0.07   |
| 4    | 3288-0400 | \$6.60       | 0.09   |
| 5    | 3288-0500 | \$7.20       | 0.10   |
| 6    | 3288-0600 | \$9.00       | 0.14   |
| 7    | 3288-0700 | \$10.20      | 0.15   |
| 8    | 3288-0800 | \$11.00      | 0.17   |
| 10   | 3288-1000 | \$13.00      | 0.25   |
| 12   | 3288-1200 | \$18.70      | 0.30   |

HOSES & CLAMPS

#-Denotes an item that is returnable. See page 51 for a full listing of returnable items.

## Rigid Flex Steel Hose ◇

| Ø in | Part No.  | Galv Price per Foot | SS 304 Price ◇ per Foot | Weight |
|------|-----------|---------------------|-------------------------|--------|
| 1.5  | 3281-1500 | \$5.00              | N/A                     | 1.00   |
| 2    | 3281-0200 | \$6.30              | \$17.20                 | 1.30   |
| 2.5  | 3281-2500 | \$6.60              | N/A                     | 1.60   |
| 3    | 3281-0300 | \$9.60              | \$25.40                 | 2.00   |
| 3.5  | 3281-3500 | \$10.50             | N/A                     | 2.30   |
| 4    | 3281-0400 | \$12.10             | \$33.50                 | 2.60   |
| 5    | 3281-0500 | \$14.80             | \$41.80                 | 3.00   |
| 6    | 3281-0600 | \$18.20             | \$42.80                 | 3.60   |
| 7    | 3281-0700 | \$20.70             | \$48.40                 | 4.00   |
| 8    | 3281-0800 | \$23.80             | \$54.90                 | 4.60   |
| 9    | 3281-0900 | \$26.60             | \$64.30                 | 5.30   |
| 10   | 3281-1000 | \$28.60             | \$65.60                 | 5.90   |
| 12   | 3281-1200 | \$34.70             | \$76.30                 | 7.00   |
| 14   | 3281-1400 | \$40.10             | \$89.90                 | 8.10   |



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

◇ Items may take longer than standard lead times.

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

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

## Ultra Flex Steel Hose ◇

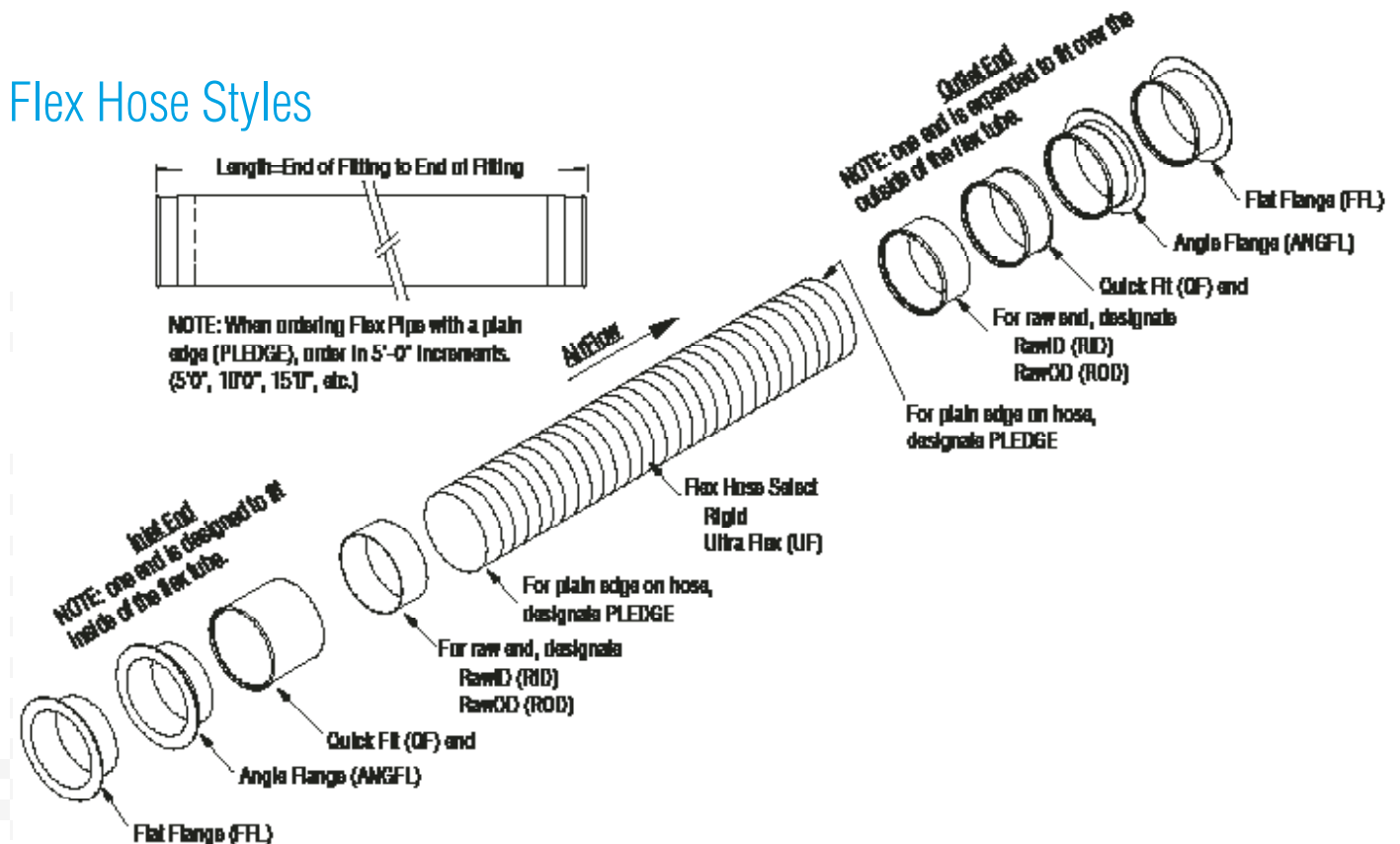
| Ø in | Part No.  | Galv Price per Foot | SS 304 Price ◇ per Foot | Weight Galv |
|------|-----------|---------------------|-------------------------|-------------|
| 3    | 3283-0300 | \$18.10             | \$42.70                 | 2.15        |
| 4    | 3283-0400 | \$18.10             | \$42.70                 | 2.65        |
| 5    | 3283-0500 | \$22.50             | \$52.90                 | 3.05        |
| 6    | 3283-0600 | \$27.50             | \$64.70                 | 3.55        |
| 7    | 3283-0700 | \$32.40             | \$76.20                 | 4.15        |
| 8    | 3283-0800 | \$36.70             | \$84.50                 | 4.55        |



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

◇ Items may take longer than standard lead times.

## Flex Hose Styles



## QF Canopy Hood

| Ø in | Part No.  | A in | B in | L in | X | Y | Ends | Galv Price | SS 304 Price | Weight Galv |
|------|-----------|------|------|------|---|---|------|------------|--------------|-------------|
| 16   | 3270-1818 | 18   | 18   | 15.5 | 4 | 2 | QF   | \$169.10   | \$367.40     | 9.00        |
| 16   | 3270-2424 | 24   | 24   | 20   | 4 | 2 |      | \$309.10   | \$670.20     | 16.00       |
| 18   | 3270-3636 | 36   | 36   | 29   | 4 | 2 |      | \$799.30   | \$1,727.40   | 36.00       |
| 18   | 3270-4848 | 48   | 48   | 38   | 4 | 2 |      | \$1,421.40 | \$3,071.90   | 64.00       |



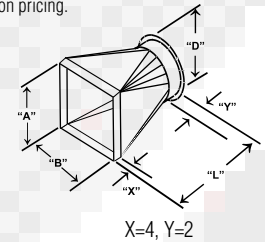
PART NO. 3270

- 18ga material
- Specify opening size: 18" square, 24" square, 36" square, or 48" square. Hemmed end.
- Other sizes upon request. Maximum size 72"x48".
- If flange needed, please see transition pricing.

### Hood Design Basis:

150 fpm capture velocity  
2 ft. distance from source

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



X=4, Y=2

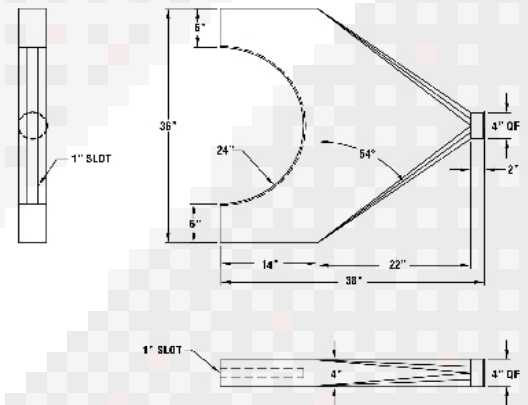
## QF Barrel Hood

| Ø in | Part No.  | Ends | Galv Price | SS 304 Price | Weight Galv |
|------|-----------|------|------------|--------------|-------------|
| 4    | 3271-0400 | QF   | \$335.80   | \$931.00     | 14.50       |
| 6    | 3271-0600 |      | \$360.00   | \$998.10     | 14.50       |
| 8    | 3271-0800 |      | \$371.80   | \$1,041.50   | 14.50       |



PART NO. 3271

- 20ga material
- Designed to fit 55 gallon drums.



## QF Router Hood

| Ø in | Part No.  | Ends | Galv Price | SS 304 Price | Weight Galv |
|------|-----------|------|------------|--------------|-------------|
| 3    | 3231-0300 | QF   | \$153.30   | \$425.30     | 2.40        |
| 4    | 3231-0400 |      | \$153.30 # | \$425.30     | 2.85        |
| 5    | 3231-0500 |      | \$157.50 # | \$437.10     | 3.00        |
| 6    | 3231-0600 |      | \$162.60 # | \$451.50     | 3.20        |
| 7    | 3231-0700 |      | \$167.60   | \$465.30     | 3.50        |
| 8    | 3231-0800 |      | \$172.20   | \$478.10     | 4.00        |
| 9    | 3231-0900 |      | \$179.20   | \$497.30     | 6.20        |
| 10   | 3231-1000 |      | \$191.10   | \$530.40     | 8.50        |



PART NO. 3231

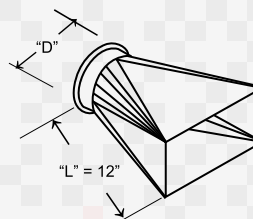
with Magnet

PART NO. 3232

- 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.
- Magnet itself is not available in SS.

## QF Router Hood with Magnet

| Ø in | Part No.  | Ends | Galv Price | SS 304 Price | Weight Galv |
|------|-----------|------|------------|--------------|-------------|
| 3    | 3232-0300 | QF   | \$192.40   | \$534.00     | 3.40        |
| 4    | 3232-0400 |      | \$192.40   | \$534.00     | 4.60        |
| 5    | 3232-0500 |      | \$196.90   | \$546.70     | 5.50        |
| 6    | 3232-0600 |      | \$203.10   | \$563.90     | 6.40        |
| 7    | 3232-0700 |      | \$206.90   | \$574.10     | 7.25        |
| 8    | 3232-0800 |      | \$210.40   | \$584.10     | 8.50        |
| 9    | 3232-0900 |      | \$217.80   | \$604.40     | 12.40       |
| 10   | 3232-1000 |      | \$230.30   | \$639.50     | 17.00       |



#-Denotes an item that is returnable. See page 51 for a full listing of returnable items.

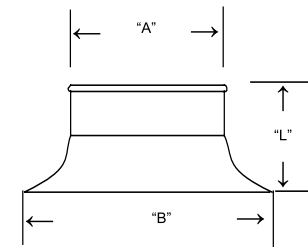
## QF Bell Mouth Hood

| Ø (A)<br>in | Ø (B)<br>in | Part No.  | Length (L)<br>in | Galv<br>Price | SS 304<br>Price ♦ | Weight<br>Galv |
|-------------|-------------|-----------|------------------|---------------|-------------------|----------------|
| 3           | 8           | 3251-0300 | 4.5              | \$72.90       | \$125.30          | 0.90           |
| 4           | 9           | 3251-0400 | 4.5              | \$72.90       | \$125.30          | 1.05           |
| 5           | 10          | 3251-0500 | 4.5              | \$84.60       | \$145.20          | 1.15           |
| 6           | 12          | 3251-0600 | 5.0              | \$92.70       | \$159.30          | 1.85           |
| 7           | 13          | 3251-0700 | 5.0              | \$99.10       | \$170.00          | 1.95           |
| 8           | 14          | 3251-0800 | 5.0              | \$106.30      | \$182.50          | 2.10           |
| 9           | 15          | 3251-0900 | 5.0              | \$116.20      | \$199.50          | 2.25           |
| 10          | 16          | 3251-1000 | 5.0              | \$125.00      | \$214.90          | 3.00           |
| 11          | 19          | 3251-1100 | 6.0              | \$149.50      | \$256.70          | 3.70           |
| 12          | 20          | 3251-1200 | 6.0              | \$149.50      | \$256.70          | 4.10           |
| 13          | 21          | 3251-1300 | 6.0              | \$152.10      | CALL              | 4.50           |
| 14          | 22          | 3251-1400 | 6.0              | \$152.10      | CALL              | 5.75           |
| 15          | 23          | 3251-1500 | 6.0              | \$154.90      | CALL              | 6.25           |
| 16          | 26          | 3251-1600 | 7.0              | \$154.90      | CALL              | 7.50           |
| 17          | 27          | 3251-1700 | 7.0              | \$179.20      | CALL              | 8.25           |
| 18          | 28          | 3251-1800 | 7.0              | \$179.20      | CALL              | 9.50           |
| 20          | 30          | 3251-2000 | 7.0              | \$203.40      | CALL              | 10.75          |
| 22          | 34          | 3251-2200 | 8.0              | \$227.70      | CALL              | 12.25          |
| 24          | 36          | 3251-2400 | 8.0              | \$261.90      | CALL              | 14.50          |

♦ SS Bell Mouth Hoods have a lead time of 4-5 business days minimum.



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

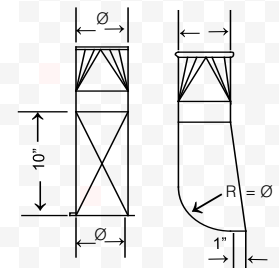


## QF Radial Arm Saw Hood

| Ø | Part No.  | Ends | Galv Price | SS Price | Weight<br>Galv |
|---|-----------|------|------------|----------|----------------|
| 4 | 3229-0400 | QF   | \$181.30 # | Call     | 3.50           |
| 5 | 3229-0500 |      | \$221.10 # | Call     | 3.90           |
| 6 | 3229-0600 |      | \$303.90 # | Call     | 4.20           |



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

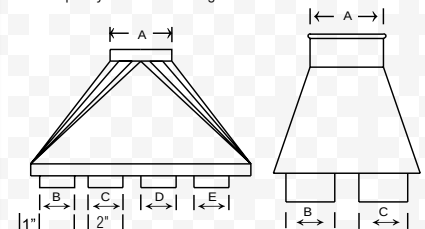


## QF Suction Hood

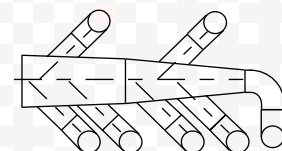
| Part No.  | Ends | No. of<br>Pickups | Galv Price | SS 304<br>Price | Weight<br>Galv |
|-----------|------|-------------------|------------|-----------------|----------------|
| 3230-XX02 | QF   | 2                 | \$203.40   | \$428.90        | 6.50           |
| 3230-XX03 |      | 3                 | \$231.30   | \$492.20        | 9.00           |
| 3230-XX04 |      | 4                 | \$255.50   | \$544.20        | 13.40          |
| 3230-XX05 |      | 5                 | \$313.70   | \$664.40        | 22.80          |
| 3230-XX06 |      | 6                 | \$429.80   | \$912.90        | 47.60          |



- Specify round or rectangular.



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



#-Denotes an item that is returnable. See page 51 for a full listing of returnable items.

◇ Diverter Valves have a lead time of **7 days** minimum

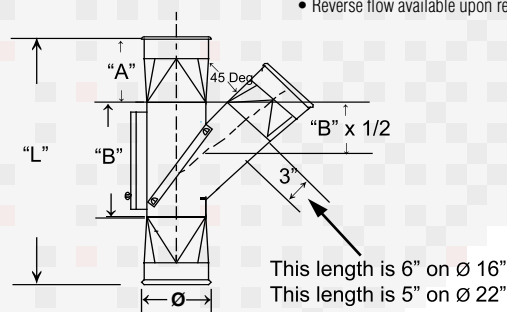
## QF Manual Diverter Valve ◇

| Ø in | Part No.  | Ends | B in  | A in | L in  | Housing Gauge | Black Metal Price | SS 304 Price | Weight (Galv) |
|------|-----------|------|-------|------|-------|---------------|-------------------|--------------|---------------|
| 3    | 3235-0345 | QF   | 14    | 6    | 26    | 3/16          | \$1,249.60        | \$1,800.10   | 15.00         |
| 4    | 3235-0445 |      | 14    | 6    | 26    | 3/16          | \$1,249.60        | \$1,800.10   | 20.00         |
| 5    | 3235-0545 |      | 15.25 | 6    | 27.25 | 3/16          | \$1,407.90        | \$1,967.40   | 30.00         |
| 6    | 3235-0645 |      | 16    | 6    | 28    | 3/16          | \$1,504.90        | \$2,101.30   | 44.00         |
| 7    | 3235-0745 |      | 16    | 6    | 28    | 3/16          | \$1,585.60        | \$2,215.00   | 60.00         |
| 8    | 3235-0845 |      | 17    | 6    | 29    | 3/16          | \$1,660.20        | \$2,318.80   | 66.50         |
| 9    | 3235-0945 |      | 18    | 8    | 34    | 3/16          | \$1,734.80        | \$2,422.50   | 85.40         |
| 10   | 3235-1045 |      | 20    | 8    | 36    | 3/16          | \$1,806.50        | \$2,522.80   | 100.00        |
| 11   | 3235-1145 |      | 20    | 8    | 36    | 3/16          | \$1,924.50        | \$2,687.00   | 115.00        |
| 12   | 3235-1245 |      | 24    | 8    | 40    | 3/16          | \$1,924.50        | \$2,687.00   | 130.00        |
| 13   | 3235-1345 |      | 24    | 8    | 40    | 3/16          | \$2,103.60        | \$2,937.80   | 146.50        |
| 14   | 3235-1445 |      | 28    | 8    | 44    | 3/16          | \$2,103.60        | \$2,937.80   | 170.00        |
| 15   | 3235-1545 |      | 28    | 8    | 44    | 3/16          | \$2,282.80        | \$3,188.90   | 190.00        |
| 16   | 3235-1645 |      | 32    | 8    | 48    | 3/16          | \$2,282.80        | \$3,188.90   | 220.00        |
| 17   | 3235-1745 |      | 32    | 8    | 48    | 3/16          | \$2,463.50        | \$3,439.60   | 337.00        |
| 18   | 3235-1845 |      | 36    | 8    | 52    | 3/16          | \$2,463.50        | \$3,439.60   | 392.00        |
| 20   | 3235-2045 |      | 40    | 10   | 60    | 3/16          | \$2,570.90        | \$3,590.40   | 447.00        |
| 22   | 3235-2245 |      | 41.25 | 10   | 61.25 | 3/16          | \$2,678.40        | \$3,740.80   | 522.50        |
| 24   | 3235-2445 |      | 48    | 10   | 68    | 3/16          | \$3,080.20        | \$4,302.00   | 625.10        |

◇ Diverter Valves have a lead time of 7 days minimum



- 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).
- Reverse flow available upon request.



Manual

## QF Automatic Diverter Valve ◇

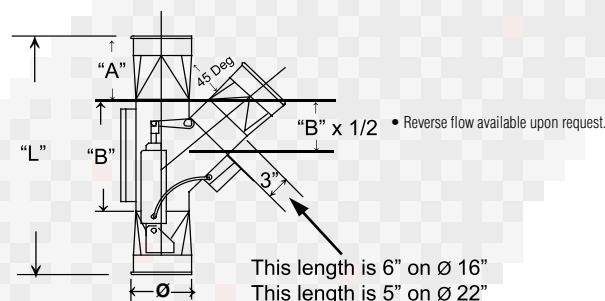
| Ø in | Part No.  | Ends | B in  | A in | L in  | Housing Gauge | Black Metal Price | SS 304 Price | Weight (Galv) |
|------|-----------|------|-------|------|-------|---------------|-------------------|--------------|---------------|
| 3    | 3236-0345 | QF   | 14    | 6    | 26    | 3/16          | \$1,975.20        | \$2,844.00   | 22.50         |
| 4    | 3236-0445 |      | 14    | 6    | 26    | 3/16          | \$1,975.20        | \$2,844.00   | 27.00         |
| 5    | 3236-0545 |      | 15.25 | 6    | 27.25 | 3/16          | \$2,155.90        | \$3,011.40   | 37.50         |
| 6    | 3236-0645 |      | 16    | 6    | 28    | 3/16          | \$2,396.20        | \$3,345.90   | 51.00         |
| 7    | 3236-0745 |      | 16    | 6    | 28    | 3/16          | \$2,455.90        | \$3,429.80   | 67.50         |
| 8    | 3236-0845 |      | 17    | 6    | 29    | 3/16          | \$2,539.60        | \$3,546.70   | 74.00         |
| 9    | 3236-0945 |      | 18    | 8    | 34    | 3/16          | \$2,635.20        | \$3,680.50   | 92.90         |
| 10   | 3236-1045 |      | 20    | 8    | 36    | 3/16          | \$2,815.80        | \$3,931.70   | 107.50        |
| 11   | 3236-1145 |      | 20    | 8    | 36    | 3/16          | \$2,994.90        | \$4,182.50   | 140.00        |
| 12   | 3236-1245 |      | 24    | 8    | 40    | 3/16          | \$2,994.90        | \$4,182.50   | 154.00        |
| 13   | 3236-1345 |      | 24    | 8    | 40    | 3/16          | \$3,174.00        | \$4,433.50   | 177.50        |
| 14   | 3236-1445 |      | 28    | 8    | 44    | 3/16          | \$3,174.00        | \$4,433.50   | 198.50        |
| 15   | 3236-1545 |      | 28    | 8    | 44    | 3/16          | \$3,823.60        | \$5,340.10   | 227.40        |
| 16   | 3236-1645 |      | 32    | 8    | 48    | 3/16          | \$3,823.60        | \$5,340.10   | 260.00        |
| 17   | 3236-1745 |      | 32    | 8    | 48    | 3/16          | \$4,152.00        | \$5,798.60   | 345.00        |
| 18   | 3236-1845 |      | 36    | 8    | 52    | 3/16          | \$4,152.00        | \$5,798.60   | 400.00        |
| 20   | 3236-2045 |      | 40    | 10   | 60    | 3/16          | \$4,453.60        | \$6,220.20   | 455.00        |
| 22   | 3236-2245 |      | 41.25 | 10   | 61.25 | 3/16          | \$5,086.60        | \$7,103.60   | 530.00        |
| 24   | 3236-2445 |      | 48    | 10   | 68    | 3/16          | \$5,849.70        | \$8,169.10   | 635.00        |

◇ Diverter Valves have a lead time of 7 days minimum



- 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.

All cylinders are magnetic



Automatic

## Reed Switch Assembly 2.50

| Part No.         | Price PER ASSEMBLY |
|------------------|--------------------|
| 3203-0000-RSW250 | \$89.80            |



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



Cylinder with reed switches attached shown at left



- 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.
- 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)
- Diverters have galvanized or SS cylinder with steel rod.

### QF SD Manual Diverter Valve ◇

| Ø in | Part No.  | Galv Price | SS 304 Price | Weight Galv |
|------|-----------|------------|--------------|-------------|
| 3    | 3233-0300 | \$966.60   | \$1,170.10   | 10.00       |
| 4    | 3233-0400 | \$966.60   | \$1,170.10   | 10.00       |
| 5    | 3233-0500 | \$966.60   | \$1,170.10   | 10.00       |
| 6    | 3233-0600 | \$1,164.00 | \$1,365.80   | 22.00       |
| 7    | 3233-0700 | \$1,164.00 | \$1,365.80   | 22.00       |
| 8    | 3233-0800 | \$1,284.20 | \$1,507.30   | 37.00       |
| 9    | 3233-0900 | \$1,284.20 | \$1,507.30   | 37.00       |
| 10   | 3233-1000 | \$1,397.30 | \$1,639.90   | 55.00       |
| 11   | 3233-1100 | \$1,397.30 | \$1,639.90   | 55.00       |
| 12   | 3233-1200 | \$1,488.70 | \$1,746.50   | 73.00       |
| 13   | 3233-1300 | \$1,488.70 | \$1,746.50   | 73.00       |

### SD Auto Diverter Valve ◇

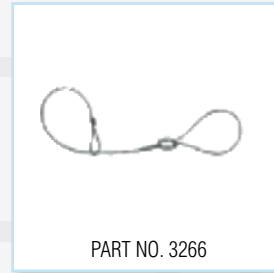
| Ø in | Part No.  | Galv Price | SS 304 Price | Weight Galv |
|------|-----------|------------|--------------|-------------|
| 3    | 3234-0300 | \$1,527.80 | \$1,848.60   | 15.00       |
| 4    | 3234-0400 | \$1,527.80 | \$1,848.60   | 15.00       |
| 5    | 3234-0500 | \$1,527.80 | \$1,848.60   | 15.00       |
| 6    | 3234-0600 | \$1,853.50 | \$2,174.90   | 27.00       |
| 7    | 3234-0700 | \$1,853.50 | \$2,174.90   | 27.00       |
| 8    | 3234-0800 | \$1,964.30 | \$2,305.40   | 42.00       |
| 9    | 3234-0900 | \$1,964.30 | \$2,305.40   | 42.00       |
| 10   | 3234-1000 | \$2,177.90 | \$2,555.60   | 60.00       |
| 11   | 3234-1100 | \$2,177.90 | \$2,555.60   | 60.00       |
| 12   | 3234-1200 | \$2,316.60 | \$2,718.70   | 78.00       |
| 13   | 3234-1300 | \$2,316.60 | \$2,718.70   | 78.00       |

All cylinders are magnetic

◇ Diverter Valves have a lead time of **7 days** minimum

## QF Gripple Hanger

| Size Weight  | Part No.         | Price     | Weight Galv |
|--------------|------------------|-----------|-------------|
| Up to 22lbs  | 3266-1500-022LBS | \$6.50 #  | 0.05        |
| Up to 100lbs | 3266-1500-100LBS | \$9.20 #  | 0.10        |
| Up to 200lbs | 3266-1500-200LBS | \$11.00 # | 0.75        |
| Up to 495lbs | 3266-1500-495LBS | \$21.00 # | 1.10        |
| Up to 715lbs | 3266-1500-715LBS | \$27.70 # | 1.20        |



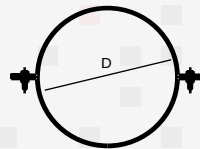
- Comes in length of 15 feet.
- Most common hanging method.

## QF Pipe Hanger

| Ø in | Part No.  | Galv Price | SS 304 Price | Weight Galv |
|------|-----------|------------|--------------|-------------|
| 3    | 3265-0300 | \$7.10 #   | \$15.20      | 0.40        |
| 4    | 3265-0400 | \$7.10 #   | \$15.20      | 0.45        |
| 5    | 3265-0500 | \$7.90 #   | \$16.50      | 0.50        |
| 6    | 3265-0600 | \$9.10 #   | \$18.60      | 0.60        |
| 7    | 3265-0700 | \$9.10 #   | \$20.70      | 0.65        |
| 8    | 3265-0800 | \$10.80 #  | \$24.00      | 0.75        |
| 9    | 3265-0900 | \$13.40 #  | \$29.50      | 0.85        |
| 10   | 3265-1000 | \$14.10 #  | \$31.60      | 0.95        |
| 11   | 3265-1100 | \$15.70 #  | \$35.10      | 1.00        |
| 12   | 3265-1200 | \$15.70 #  | \$35.10      | 1.10        |
| 13   | 3265-1300 | \$17.90 #  | \$39.50      | 1.20        |
| 14   | 3265-1400 | \$17.90 #  | \$39.50      | 1.15        |
| 15   | 3265-1500 | \$23.20    | \$49.20      | 1.30        |
| 16   | 3265-1600 | \$23.20    | \$49.20      | 1.35        |
| 17   | 3265-1700 | \$24.60    | \$50.40      | 1.40        |
| 18   | 3265-1800 | \$24.60    | \$50.40      | 1.50        |
| 20   | 3265-2000 | \$27.00    | \$54.70      | 1.80        |
| 22   | 3265-2200 | \$33.20    | \$66.70      | 6.00        |
| 24   | 3265-2400 | \$38.10    | \$76.70      | 6.00        |
| 26   | 3265-2600 | \$43.20    | \$84.20      | 6.00        |
| 28   | 3265-2800 | \$47.00    | \$88.50      | 6.00        |
| 30   | 3265-3000 | \$48.90    | \$100.70     | 7.50        |
| 32   | 3265-3200 | \$60.50    | \$124.60     | 8.00        |
| 34   | 3265-3400 | \$66.30    | \$137.90     | 8.00        |
| 36   | 3265-3600 | \$74.30    | \$152.00     | 8.80        |
| 38   | 3265-3800 | \$82.00    | \$167.40     | 10.00       |
| 40   | 3265-4000 | \$89.90    | \$183.90     | 10.00       |



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

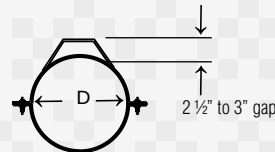


## QF Pipe Hanger HJ

| Ø in | Part No.      | Galv. Price | SS 304 Price | Weight Galv |
|------|---------------|-------------|--------------|-------------|
| 3    | 3265-0300-1HJ | \$14.20     | \$30.70      | 0.45        |
| 4    | 3265-0400-1HJ | \$14.20     | \$30.70      | 0.55        |
| 5    | 3265-0500-1HJ | \$15.90     | \$34.10      | 0.65        |
| 6    | 3265-0600-1HJ | \$18.00     | \$38.90      | 0.75        |
| 7    | 3265-0700-1HJ | \$18.00     | \$38.90      | 0.85        |
| 8    | 3265-0800-1HJ | \$21.50     | \$46.40      | 0.95        |
| 9    | 3265-0900-1HJ | \$26.60     | \$57.30      | 1.05        |
| 10   | 3265-1000-1HJ | \$28.20     | \$60.70      | 1.15        |
| 11   | 3265-1100-1HJ | \$31.40     | \$67.50      | 1.30        |
| 12   | 3265-1200-1HJ | \$31.40     | \$67.50      | 1.45        |
| 13   | 3265-1300-1HJ | \$35.70     | \$77.10      | 1.60        |
| 14   | 3265-1400-1HJ | \$35.70     | \$77.10      | 1.75        |
| 15   | 3265-1500-1HJ | \$46.40     | \$99.50      | 1.90        |
| 16   | 3265-1600-1HJ | \$46.40     | \$99.50      | 2.20        |
| 17   | 3265-1700-1HJ | \$49.10     | \$105.70     | 2.50        |
| 18   | 3265-1800-1HJ | \$49.10     | \$105.70     | 2.85        |
| 20   | 3265-2000-1HJ | \$54.00     | \$115.90     | 3.40        |
| 22   | 3265-2200-1HJ | \$66.30     | \$142.60     | 4.10        |
| 24   | 3265-2400-1HJ | \$76.30     | \$164.10     | 5.00        |



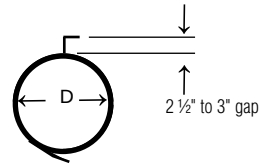
- 3"-24" made from galvanized steel 14 gauge, SS is 16 gauge
- Clearance hole 7/16"
- Bolts are supplied with hanger.



#-Denotes an item that is returnable. See page 51 for a full listing of returnable items.

## QF Clamp Hanger

| Ø<br>in | Part No.         | Galv<br>Price | SS<br>Price |
|---------|------------------|---------------|-------------|
| 3       | 3265-0300-1QF000 | \$20.00       | \$42.80     |
| 4       | 3265-0400-1QF000 | \$20.00       | \$42.80     |
| 5       | 3265-0500-1QF000 | \$22.10       | \$47.80     |
| 6       | 3265-0600-1QF000 | \$25.20       | \$54.40     |
| 7       | 3265-0700-1QF000 | \$25.20       | \$54.40     |
| 8       | 3265-0800-1QF000 | \$30.20       | \$65.00     |
| 9       | 3265-0900-1QF000 | \$37.20       | \$80.30     |
| 10      | 3265-1000-1QF000 | \$39.60       | \$84.90     |
| 11      | 3265-1100-1QF000 | \$44.00       | \$94.50     |
| 12      | 3265-1200-1QF000 | \$44.00       | \$94.50     |
| 13      | 3265-1300-1QF000 | \$53.60       | \$107.90    |
| 14      | 3265-1400-1QF000 | \$53.60       | \$107.90    |
| 15      | 3265-1500-1QF000 | \$64.90       | \$139.40    |
| 16      | 3265-1600-1QF000 | \$64.90       | \$139.40    |
| 17      | 3265-1700-1QF000 | \$68.80       | \$147.90    |
| 18      | 3265-1800-1QF000 | \$68.80       | \$147.90    |
| 20      | 3265-2000-1QF000 | \$75.60       | \$162.90    |
| 22      | 3265-2200-1QF000 | \$92.90       | \$199.60    |
| 24      | 3265-2400-1QF000 | \$106.90      | \$230.00    |



- Tested by MET Laboratories to hold, without failure, up to 170lbs for 9" hanger and up to 850lbs for 20".

## QF Strut Hanger

| Size | Part No.         | Galv<br>Price | SSPrice  |
|------|------------------|---------------|----------|
| 3    | 3265-0300-1MH000 | \$10.70       | \$22.90  |
| 4    | 3265-0400-1MH000 | \$10.70       | \$22.90  |
| 5    | 3265-0500-1MH000 | \$11.90       | \$24.80  |
| 6    | 3265-0600-1MH000 | \$13.60       | \$27.90  |
| 7    | 3265-0700-1MH000 | \$13.60       | \$31.00  |
| 8    | 3265-0800-1MH000 | \$16.20       | \$36.10  |
| 9    | 3265-0900-1MH000 | \$20.10       | \$44.30  |
| 10   | 3265-1000-1MH000 | \$21.20       | \$47.50  |
| 11   | 3265-1100-1MH000 | \$23.50       | \$52.60  |
| 12   | 3265-1200-1MH000 | \$23.50       | \$52.60  |
| 13   | 3265-1300-1MH000 | \$26.90       | \$59.20  |
| 14   | 3265-1400-1MH000 | \$26.90       | \$59.20  |
| 15   | 3265-1500-1MH000 | \$34.80       | \$73.90  |
| 16   | 3265-1600-1MH000 | \$34.80       | \$73.90  |
| 17   | 3265-1700-1MH000 | \$37.00       | \$75.60  |
| 18   | 3265-1800-1MH000 | \$37.00       | \$75.60  |
| 20   | 3265-2000-1MH000 | \$40.50       | \$82.10  |
| 22   | 3265-2200-1MH000 | \$50.00       | \$100.10 |
| 24   | 3265-2400-1MH000 | \$57.20       | \$115.00 |



- Tested by MET Laboratories to hold up to 170lbs for 9" and up to 850lbs for 20" without failure.
- For strut channel mounting (strut not included).
- Nut and bolt included.

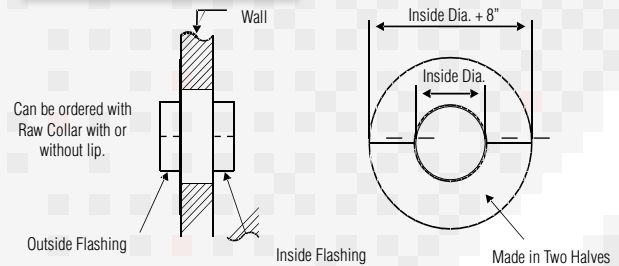
## QF Wall Flashing

| Ø in | Part No.         | Gauge | Galv Price | SS 304 Price |
|------|------------------|-------|------------|--------------|
| 4    | 3238-0400-100000 | 20    | \$41.90    | \$74.10      |
| 5    | 3238-0500-100000 | 20    | \$44.10    | \$82.40      |
| 6    | 3238-0600-100000 | 20    | \$52.70    | \$92.20      |
| 7    | 3238-0700-100000 | 20    | \$56.90    | \$99.10      |
| 8    | 3238-0800-100000 | 20    | \$59.30    | \$104.20     |
| 9    | 3238-0900-100000 | 20    | \$66.40    | \$106.70     |
| 10   | 3238-1000-100000 | 20    | \$69.90    | \$111.00     |
| 12   | 3238-1200-100000 | 20    | \$77.50    | \$116.30     |
| 14   | 3238-1400-100000 | 20    | \$80.80    | \$125.70     |
| 16   | 3238-1600-100000 | 20    | \$87.90    | \$144.10     |
| 18   | 3238-1800-100000 | 20    | \$95.30    | \$169.20     |
| 20   | 3238-2000-100000 | 20    | \$101.40   | \$180.20     |
| 22   | 3238-2200-100000 | 20    | \$108.50   | \$193.90     |
| 24   | 3238-2400-100000 | 20    | \$124.70   | \$222.90     |

### Wall Flashing



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



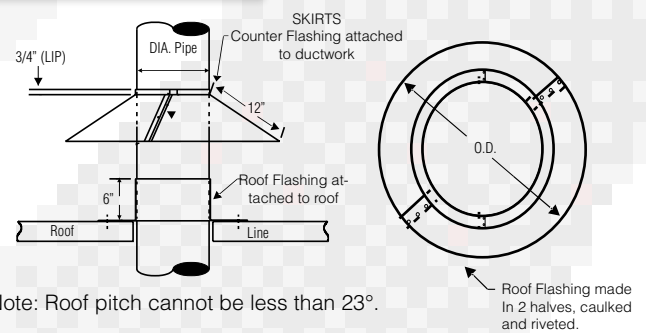
## QF Roof Flashing

| Ø in | Part No.         | Gauge | Galv Price | SS 304 Price |
|------|------------------|-------|------------|--------------|
| 4    | 3237-0400-100000 | 20    | \$41.90    | \$74.10      |
| 5    | 3237-0500-100000 | 20    | \$44.10    | \$82.40      |
| 6    | 3237-0600-100000 | 20    | \$52.70    | \$86.90      |
| 7    | 3237-0700-100000 | 20    | \$56.90    | \$99.10      |
| 8    | 3237-0800-100000 | 20    | \$59.30    | \$104.20     |
| 9    | 3237-0900-100000 | 20    | \$66.40    | \$106.70     |
| 10   | 3237-1000-100000 | 20    | \$70.00    | \$111.00     |
| 12   | 3237-1200-100000 | 20    | \$77.50    | \$116.30     |
| 14   | 3237-1400-100000 | 20    | \$80.80    | \$125.70     |
| 16   | 3237-1600-100000 | 20    | \$87.90    | \$135.90     |
| 18   | 3237-1800-100000 | 20    | \$95.30    | \$169.20     |
| 20   | 3237-2000-100000 | 20    | \$101.40   | \$180.20     |
| 22   | 3237-2200-100000 | 20    | \$108.50   | \$193.90     |
| 24   | 3237-2400-100000 | 20    | \$124.70   | \$223.00     |

### Roof Flashing



- Provides cover for roof penetration.



Note: Roof pitch cannot be less than 23°.

## QF Roof Skirt

| Ø in | Part No.         | Gauge | Galv Price | SS 304 Price |
|------|------------------|-------|------------|--------------|
| 4    | 3239-0400-100000 | 20    | \$49.50    | \$94.40      |
| 5    | 3239-0500-100000 | 20    | \$56.10    | \$108.20     |
| 6    | 3239-0600-100000 | 20    | \$57.00    | \$109.20     |
| 7    | 3239-0700-100000 | 20    | \$67.20    | \$130.80     |
| 8    | 3239-0800-100000 | 20    | \$67.20    | \$130.80     |
| 9    | 3239-0900-100000 | 20    | \$80.10    | \$152.60     |
| 10   | 3239-1000-100000 | 20    | \$80.10    | \$152.60     |
| 12   | 3239-1200-100000 | 20    | \$110.50   | \$210.30     |
| 14   | 3239-1400-100000 | 20    | \$115.30   | \$219.60     |
| 16   | 3239-1600-100000 | 20    | \$122.50   | \$235.60     |
| 18   | 3239-1800-100000 | 20    | \$139.50   | \$266.90     |
| 20   | 3239-2000-100000 | 20    | \$153.70   | \$307.00     |
| 22   | 3239-2200-100000 | 20    | \$168.40   | \$379.70     |
| 24   | 3239-2400-100000 | 20    | \$185.80   | \$421.30     |

### Roof Skirt



- Provides weather protection for roof penetration.

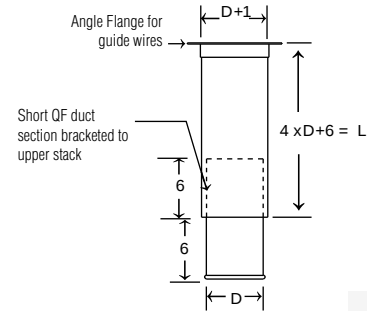
Note: Roof pitch cannot be less than 23°.

## QF No-Loss Stackhead

| Ø in | Part No.  | Ends   | Gauge | Galv Price | SS 304 Price | Weight Galv |
|------|-----------|--------|-------|------------|--------------|-------------|
| 3    | 3204-0300 | QF     | 22    | \$78.00    | \$176.00     | 4.00        |
| 4    | 3204-0400 | QF     | 22    | \$78.00    | \$176.00     | 6.50        |
| 5    | 3204-0500 | QF     | 22    | \$81.10    | \$182.30     | 8.00        |
| 6    | 3204-0600 | QF     | 22    | \$86.40    | \$195.30     | 10.00       |
| 7    | 3204-0700 | QF     | 22    | \$98.80    | \$222.70     | 14.00       |
| 8    | 3204-0800 | QF     | 22    | \$120.40   | \$271.40     | 23.08       |
| 9    | 3204-0900 | QF     | 22    | \$133.60   | \$282.60     | 32.00       |
| 10   | 3204-1000 | QF     | 22    | \$148.10   | \$334.10     | 36.00       |
| 11   | 3204-1100 | QF     | 22    | \$174.00   | \$392.50     | 39.00       |
| 12   | 3204-1200 | QF     | 22    | \$174.00   | \$392.50     | 42.00       |
| 13   | 3204-1300 | QF     | 20    | \$206.80   | \$466.70     | 45.00       |
| 14   | 3204-1400 | QF     | 20    | \$206.80   | \$466.70     | 50.00       |
| 15   | 3204-1500 | QF     | 20    | \$242.60   | \$547.50     | 56.00       |
| 16   | 3204-1600 | QF     | 20    | \$242.60   | \$547.50     | 60.00       |
| 17   | 3204-1700 | QF     | 20    | \$329.10   | \$742.70     | 64.00       |
| 18   | 3204-1800 | QF     | 20    | \$329.10   | \$742.70     | 69.75       |
| 20   | 3204-2000 | QF     | 20    | \$413.80   | \$933.20     | 79.16       |
| 22   | 3204-2200 | QF     | 20    | \$460.70   | \$1,039.70   | 84.00       |
| 24   | 3204-2400 | QF     | 20    | \$529.80   | \$1,195.60   | 98.56       |
| 26   | 3204-2600 | FLANGE | 20    | \$636.10   | \$1,239.30   | 118.00      |
| 28   | 3204-2800 | FLANGE | 20    | \$716.90   | \$1,250.10   | 132.05      |
| 30   | 3204-3000 | FLANGE | 18    | \$778.80   | \$1,328.70   | 143.90      |
| 32   | 3204-3200 | FLANGE | 18    | \$879.40   | \$1,402.50   | 152.83      |
| 34   | 3204-3400 | FLANGE | 18    | \$899.90   | \$1,572.80   | 160.76      |
| 36   | 3204-3600 | FLANGE | 18    | \$919.30   | \$1,651.50   | 170.81      |
| 38   | 3204-3800 | FLANGE | 18    | \$1,055.90 | \$1,808.80   | 179.81      |
| 40   | 3204-4000 | FLANGE | 18    | \$1,131.00 | \$1,938.40   | 193.25      |

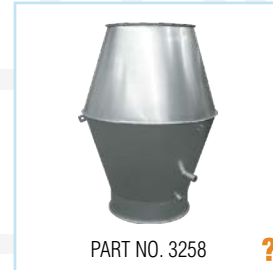


- Used when exhausting from fans or stacks through roof.
- Eliminates back pressure on fan while providing weather protection.
- Flange for guide wire attachment.

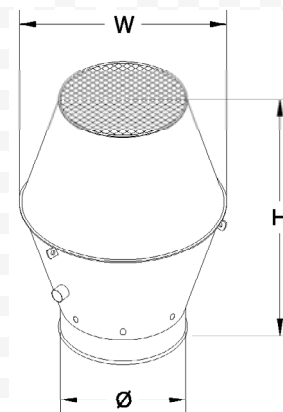


## QF Jet Cap

| Ø in | Part No.  | Ends   | W in  | H in  | Gauge | Price Galv | SS Price   | Weight |
|------|-----------|--------|-------|-------|-------|------------|------------|--------|
| 6    | 3258-0600 | QF     | 10.12 | 14.40 | 22    | \$138.30   | \$312.50   | 14.00  |
| 8    | 3258-0800 | QF     | 13.25 | 18.40 | 22    | \$192.70   | \$434.30   | 33.00  |
| 10   | 3258-1000 | QF     | 16.50 | 22.40 | 22    | \$237.00   | \$534.60   | 51.00  |
| 12   | 3258-1200 | QF     | 20.00 | 27.00 | 22    | \$278.40   | \$628.00   | 59.00  |
| 13   | 3258-1300 | QF     | 21.50 | 30.00 | 20    | \$330.90   | \$746.80   | 63.00  |
| 14   | 3258-1400 | QF     | 23.12 | 32.80 | 20    | \$330.90   | \$746.80   | 70.00  |
| 15   | 3258-1500 | QF     | 24.50 | 34.00 | 20    | \$388.10   | \$876.00   | 79.00  |
| 16   | 3258-1600 | QF     | 26.50 | 36.40 | 20    | \$388.10   | \$876.00   | 84.00  |
| 17   | 3258-1700 | QF     | 27.70 | 38.00 | 20    | \$526.50   | \$1,188.30 | 90.00  |
| 18   | 3258-1800 | QF     | 29.50 | 40.00 | 20    | \$526.50   | \$1,188.30 | 98.00  |
| 20   | 3258-2000 | QF     | 32.50 | 44.40 | 18    | \$662.10   | \$1,493.20 | 111.00 |
| 22   | 3258-2200 | QF     | 35.40 | 47.50 | 18    | \$737.20   | \$1,660.40 | 118.00 |
| 24   | 3258-2400 | QF     | 38.60 | 51.50 | 18    | \$847.80   | \$1,913.00 | 138.00 |
| 26   | 3258-2600 | FLANGE | 42.20 | 55.00 | 18    | \$1,017.80 | \$1,982.90 | 166.00 |
| 28   | 3258-2800 | FLANGE | 45.20 | 59.00 | 18    | \$1,147.00 | \$2,000.20 | 185.00 |
| 30   | 3258-3000 | FLANGE | 48.20 | 63.00 | 18    | \$1,246.10 | \$2,125.90 | 202.00 |
| 32   | 3258-3200 | FLANGE | 51.20 | 67.00 | 18    | \$1,407.10 | \$2,244.00 | 214.00 |
| 34   | 3258-3400 | FLANGE | 54.60 | 71.00 | 18    | \$1,439.90 | \$2,516.50 | 226.00 |
| 36   | 3258-3600 | FLANGE | 58.20 | 74.70 | 18    | \$1,470.80 | \$2,642.50 | 240.00 |
| 38   | 3258-3800 | FLANGE | 61.20 | 79.00 | 18    | \$1,689.40 | \$2,894.10 | 252.00 |
| 40   | 3258-4000 | FLANGE | 64.20 | 83.00 | 18    | \$1,809.70 | \$3,101.40 | 271.00 |

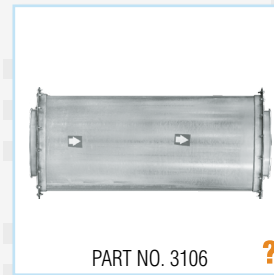


- Prevents rain from entering ducting.
- Inner funnel piece allows rain to drain out of duct-work even when system is not running.
- Has three angle brackets for guide wire attachment.
- Installs in seconds with standard QF Clamp.

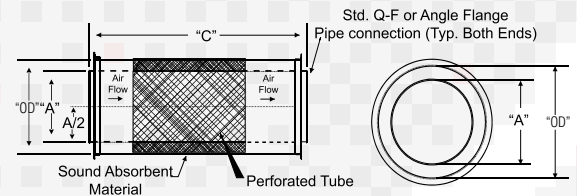


## QF Silencer

| A<br>in | OD | Part No.  | Ends   | Length<br>(C)<br>in | Gauge<br>Housing | Galv. Price | SS 304<br>Price | Weight<br>Galv |
|---------|----|-----------|--------|---------------------|------------------|-------------|-----------------|----------------|
| 3       | 12 | 3106-0300 | QF     | 28                  | 20               | \$469.20    | \$884.40        | 10.00          |
| 4       | 12 | 3106-0400 | QF     | 28                  | 20               | \$489.30    | \$922.20        | 21.00          |
| 5       | 13 | 3106-0500 | QF     | 28                  | 20               | \$504.90    | \$951.40        | 35.00          |
| 6       | 14 | 3106-0600 | QF     | 30                  | 20               | \$524.40    | \$988.40        | 43.00          |
| 7       | 15 | 3106-0700 | QF     | 30                  | 20               | \$613.40    | \$1,156.10      | 54.00          |
| 8       | 16 | 3106-0800 | QF     | 35                  | 20               | \$725.70    | \$1,367.80      | 65.00          |
| 9       | 17 | 3106-0900 | QF     | 40                  | 20               | \$782.00    | \$1,473.70      | 76.00          |
| 10      | 18 | 3106-1000 | QF     | 48                  | 20               | \$856.90    | \$1,614.90      | 89.00          |
| 12      | 20 | 3106-1200 | QF     | 54                  | 20               | \$889.60    | \$1,676.60      | 104.00         |
| 14      | 22 | 3106-1400 | QF     | 60                  | 20               | \$945.70    | \$1,782.50      | 122.00         |
| 16      | 24 | 3106-1600 | QF     | 64                  | 20               | \$1,072.20  | \$2,020.70      | 176.00         |
| 18      | 26 | 3106-1800 | QF     | 68                  | 20               | \$1,162.00  | \$2,410.50      | 225.00         |
| 20      | 28 | 3106-2000 | QF     | 72                  | 20               | \$1,362.50  | \$2,567.90      | 265.00         |
| 22      | 30 | 3106-2200 | QF     | 76                  | 20               | \$1,474.90  | \$2,779.70      | 310.00         |
| 24      | 32 | 3106-2400 | QF     | 80                  | 20               | \$1,603.10  | \$3,021.20      | 406.00         |
| 26      | 34 | 3106-2600 | FLANGE | 80                  | 20               | \$2,405.40  | \$4,533.10      | 546.00         |
| 28      | 36 | 3106-2800 | FLANGE | 80                  | 20               | \$2,423.80  | \$4,568.00      | 600.00         |
| 30      | 38 | 3106-3000 | FLANGE | 80                  | 18               | \$2,473.10  | \$4,660.80      | 678.00         |
| 32      | 40 | 3106-3200 | FLANGE | 80                  | 18               | \$2,546.40  | \$4,798.90      | 700.00         |
| 34      | 42 | 3106-3400 | FLANGE | 80                  | 18               | \$2,572.00  | \$4,847.30      | 770.00         |
| 36      | 44 | 3106-3600 | FLANGE | 80                  | 18               | \$3,064.90  | \$5,776.10      | 897.00         |
| 38      | 46 | 3106-3800 | FLANGE | 80                  | 18               | \$3,132.20  | \$5,903.30      | 974.00         |
| 40      | 48 | 3106-4000 | FLANGE | 80                  | 18               | \$3,154.60  | \$5,945.20      | 1118.00        |



- Reduces sound levels from fans and equipment. Due to varying applications, no decibel testing has been performed on this product.

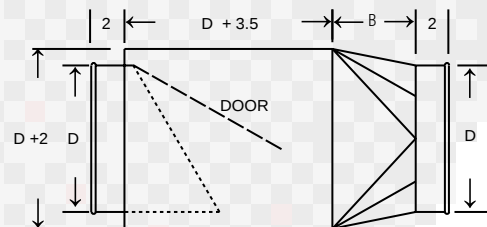


## QF In Line Back Draft Damper

| Ø<br>in | Part No.  | Ends   | Length<br>in | Length B<br>in | Gauge | Galv. Price | SS 304<br>Price | Weight<br>Galv |
|---------|-----------|--------|--------------|----------------|-------|-------------|-----------------|----------------|
| 3       | 3219-0300 | QF     | 17.5         | 7              | 18    | \$152.10    | \$260.60        | 2.25           |
| 4       | 3219-0400 | QF     | 18.5         | 7              | 18    | \$152.10    | \$260.60        | 3.00           |
| 5       | 3219-0500 | QF     | 19.5         | 7              | 18    | \$192.00    | \$329.10        | 3.50           |
| 6       | 3219-0600 | QF     | 20.5         | 7              | 18    | \$226.30    | \$387.80        | 4.00           |
| 7       | 3219-0700 | QF     | 21.5         | 7              | 18    | \$264.30    | \$452.90        | 4.50           |
| 8       | 3219-0800 | QF     | 22.5         | 7              | 18    | \$302.40    | \$518.10        | 5.00           |
| 9       | 3219-0900 | QF     | 23.5         | 7              | 18    | \$334.50    | \$573.40        | 10.00          |
| 10      | 3219-1000 | QF     | 24.5         | 7              | 18    | \$370.70    | \$635.30        | 20.00          |
| 11      | 3219-1100 | QF     | 25.5         | 7              | 18    | \$406.60    | \$697.20        | 25.00          |
| 12      | 3219-1200 | QF     | 26.5         | 7              | 18    | \$406.60    | \$697.20        | 30.00          |
| 13      | 3219-1300 | QF     | 32.5         | 12             | 18    | \$448.60    | \$768.90        | 36.00          |
| 14      | 3219-1400 | QF     | 33.5         | 12             | 18    | \$448.60    | \$768.90        | 42.00          |
| 15      | 3219-1500 | QF     | 34.5         | 12             | 18    | \$490.40    | \$840.50        | 49.00          |
| 16      | 3219-1600 | QF     | 43.5         | 20             | 18    | \$490.40    | \$840.50        | 59.00          |
| 17      | 3219-1700 | QF     | 44.5         | 20             | 18    | \$539.90    | \$925.20        | 63.00          |
| 18      | 3219-1800 | QF     | 45.5         | 20             | 18    | \$539.90    | \$925.20        | 72.00          |
| 20      | 3219-2000 | QF     | 47.5         | 20             | 16    | \$615.90    | \$1,055.70      | 78.00          |
| 22      | 3219-2200 | QF     | 49.5         | 20             | 16    | \$762.10    | \$1,306.50      | 85.00          |
| 24      | 3219-2400 | QF     | 51.5         | 20             | 16    | \$857.30    | \$1,469.40      | 90.00          |
| 26      | 3219-2600 | FLANGE | 57.5         | 24             | 16    | \$920.00    | \$1,576.80      | 100.00         |
| 28      | 3219-2800 | FLANGE | 59.5         | 24             | 16    | \$958.00    | \$1,642.00      | 110.00         |
| 30      | 3219-3000 | FLANGE | 61.5         | 24             | 16    | \$1,066.30  | \$1,827.80      | 115.00         |
| 32      | 3219-3200 | FLANGE | 63.5         | 24             | 16    | \$1,136.70  | \$1,948.40      | 120.00         |
| 34      | 3219-3400 | FLANGE | 65.5         | 24             | 16    | \$1,212.70  | \$2,078.70      | 130.00         |



- Used to reduce backward air flow in the line.
- Designed for use in a horizontal line. Specify if vertical operation is required.
- **Not an explosion isolation device.**



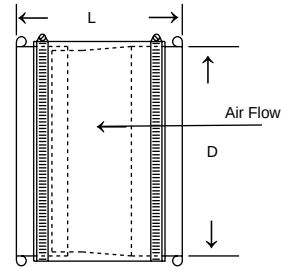
## QF Vibration Isolator ◇

| Ø<br>in | Part No.  | Ends   | Length (L)<br>in | Gauge | Galv<br>Price | SS 304<br>Price | Weight<br>Galv |
|---------|-----------|--------|------------------|-------|---------------|-----------------|----------------|
| 3       | 3206-0300 | QF     | 6.5              | 22    | \$72.20       | \$123.80        | 1.50           |
| 4       | 3206-0400 | QF     | 6.5              | 22    | \$72.20 #     | \$123.80        | 2.00           |
| 5       | 3206-0500 | QF     | 6.5              | 22    | \$78.50 #     | \$134.40        | 2.30           |
| 6       | 3206-0600 | QF     | 6.5              | 22    | \$86.50 #     | \$148.40        | 2.90           |
| 7       | 3206-0700 | QF     | 6.5              | 22    | \$96.70 #     | \$165.90        | 3.45           |
| 8       | 3206-0800 | QF     | 6.5              | 22    | \$108.60 #    | \$186.40        | 3.80           |
| 9       | 3206-0900 | QF     | 6.5              | 22    | \$114.00      | \$195.60        | 4.20           |
| 10      | 3206-1000 | QF     | 6.5              | 22    | \$119.60      | \$205.20        | 4.80           |
| 11      | 3206-1100 | QF     | 6.5              | 22    | \$180.50      | \$309.40        | 5.10           |
| 12      | 3206-1200 | QF     | 6.5              | 22    | \$180.50      | \$309.40        | 5.60           |
| 13      | 3206-1300 | QF     | 6.5              | 20    | \$206.80      | \$354.40        | 6.00           |
| 14      | 3206-1400 | QF     | 6.5              | 20    | \$206.80      | \$354.40        | 7.60           |
| 15      | 3206-1500 | QF     | 6.5              | 20    | \$252.10      | \$432.40        | 7.10           |
| 16      | 3206-1600 | QF     | 6.5              | 20    | \$252.10      | \$432.40        | 8.60           |
| 17      | 3206-1700 | QF     | 6.5              | 20    | \$272.40      | \$467.40        | 9.35           |
| 18      | 3206-1800 | QF     | 6.5              | 20    | \$272.40      | \$467.40        | 10.15          |
| 20      | 3206-2000 | QF     | 6.5              | 20    | \$292.70      | \$502.00        | 12.40          |
| 22      | 3206-2200 | QF     | 6.5              | 20    | \$318.50      | \$546.20        | 14.90          |
| 24      | 3206-2400 | QF     | 7                | 20    | \$366.30      | \$628.10        | 17.60          |
| 26      | 3206-2600 | FLANGE | 10               | 18    | \$375.50      | \$1,254.80      | 49.28          |
| 28      | 3206-2800 | FLANGE | 10               | 18    | \$403.20      | \$1,321.50      | 59.00          |
| 30      | 3206-3000 | FLANGE | 10               | 18    | \$426.90      | \$1,380.60      | 63.43          |
| 32      | 3206-3200 | FLANGE | 10               | 18    | \$453.00      | \$1,446.50      | 71.90          |
| 34      | 3206-3400 | FLANGE | 10               | 18    | \$480.10      | \$1,511.30      | 79.40          |
| 36      | 3206-3600 | FLANGE | 10               | 18    | \$508.90      | \$1,582.90      | 88.50          |
| 38      | 3206-3800 | FLANGE | 10               | 18    | \$539.70      | \$1,743.00      | 76.20          |
| 40      | 3206-4000 | FLANGE | 10               | 18    | \$572.20      | \$1,879.20      | 110.40         |

◇ Items may take longer than standard lead times.



- Reduces vibration from the fan to the ducting system.



## QF Sliding Access Panel

| Ø<br>in | Pipe Length/<br>Slide Length | Access<br>Hole | Part No.         | Galv<br>Price | SS 304<br>Price |
|---------|------------------------------|----------------|------------------|---------------|-----------------|
| 6       | 59.25 inches/18 Inches       | 7 x 14         | 3103-0600-100000 | \$115.60      | \$198.20        |
| 7       | 59.06 inches/18 Inches       | 7 x 14         | 3103-0700-100000 | \$127.80      | \$226.80        |
| 8       | 59.06 inches/18 Inches       | 7 x 14         | 3103-0800-100000 | \$134.10      | \$236.30        |
| 9       | 58.75 inches/18 Inches       | 7 x 14         | 3103-0900-100000 | \$140.00      | \$254.00        |
| 10      | 58.75 inches/18 Inches       | 7 x 14         | 3103-1000-100000 | \$146.00      | \$268.50        |
| 11      | 58.75 inches/18 Inches       | 7 x 14         | 3103-1100-100000 | \$162.30      | \$304.70        |
| 12      | 58.75 inches/18 Inches       | 7 x 14         | 3103-1200-100000 | \$167.80      | \$304.70        |
| 13      | 58.75 inches/18 Inches       | 7 x 14         | 3103-1300-100000 | \$198.70      | \$374.10        |
| 14      | 58.75 inches/18 Inches       | 7 x 14         | 3103-1400-100000 | \$198.70      | \$374.10        |
| 15      | 58.75 inches/18 Inches       | 7 x 14         | 3103-1500-100000 | \$231.80      | \$436.00        |
| 16      | 58.75 inches/18 Inches       | 7 x 14         | 3103-1600-100000 | \$231.80      | \$436.00        |
| 17      | 58.75 inches/18 Inches       | 7 x 14         | 3103-1700-100000 | \$257.00      | \$496.30        |
| 18      | 58.75 inches/18 Inches       | 7 x 14         | 3103-1800-100000 | \$257.00      | \$496.30        |
| 20      | 58.75 inches/18 Inches       | 7 x 14         | 3103-2000-100000 | \$293.10      | \$575.20        |
| 22      | 58.75 inches/18 Inches       | 7 x 14         | 3103-2200-100000 | \$320.70      | \$637.70        |
| 24      | 58.75 inches/18 Inches       | 7 x 14         | 3103-2400-100000 | \$360.80      | \$726.00        |



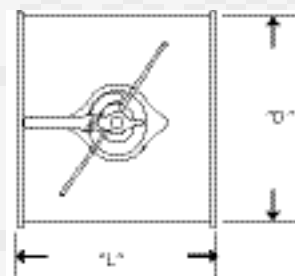
- Allows access without removal of pipe.
- Product length equals nominal pipe length.
- 6"-24" units have 7" x 14" access hole.
- Cannot be made shorter than 36".

# QF Butterfly Valve

| Ø in | Part No.  | Ends | Length (L) in | Gauge | Galv Price | SS 304 Price | Weight Galv |
|------|-----------|------|---------------|-------|------------|--------------|-------------|
| 3    | 3208-0300 | QF   | 8             | 22    | \$53.70    | \$121.10     | 1.50        |
| 4    | 3208-0400 |      | 8             | 22    | \$53.70 #  | \$121.10     | 1.65        |
| 5    | 3208-0500 |      | 8             | 22    | \$54.10 #  | \$121.80     | 2.00        |
| 6    | 3208-0600 |      | 8             | 22    | \$54.60 #  | \$123.20     | 2.40        |
| 7    | 3208-0700 |      | 8             | 22    | \$57.90 #  | \$130.20     | 3.20        |
| 8    | 3208-0800 |      | 13            | 22    | \$58.20 #  | \$131.50     | 4.10        |
| 9    | 3208-0900 |      | 13            | 22    | \$59.10    | \$133.70     | 4.85        |
| 10   | 3208-1000 |      | 13            | 22    | \$59.80    | \$134.90     | 5.45        |
| 11   | 3208-1100 |      | 13            | 20    | \$63.00    | \$142.10     | 7.00        |
| 12   | 3208-1200 |      | 13            | 20    | \$63.00    | \$142.10     | 8.40        |
| 13   | 3208-1300 |      | 17            | 20    | \$72.00    | \$162.10     | 9.75        |
| 14   | 3208-1400 |      | 17            | 20    | \$72.00    | \$162.10     | 11.85       |
| 15   | 3208-1500 |      | 17            | 20    | \$77.10    | \$173.90     | 12.70       |
| 16   | 3208-1600 |      | 17            | 20    | \$77.10    | \$173.90     | 14.20       |
| 17   | 3208-1700 |      | 23            | 20    | \$83.60    | \$188.80     | 16.10       |
| 18   | 3208-1800 |      | 23            | 20    | \$83.60    | \$188.80     | 18.00       |
| 20   | 3208-2000 |      | 23            | 20    | \$94.00    | \$212.20     | 27.75       |
| 22   | 3208-2200 |      | 23            | 20    | \$104.30   | \$235.60     | 32.40       |
| 24   | 3208-2400 |      | 23            | 20    | \$120.00   | \$271.00     | 37.90       |



- A standard locking quadrant handle enables users to regulate air volumes in clean air applications.
- For use only in clean air applications.

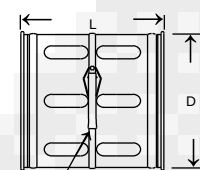


# QF Bleed-in Valve

| Ø in | Part No.  | Ends | Length (L) in | No. of Slots | Gauge | Galv Price | SS 304 Price | Weight Galv |
|------|-----------|------|---------------|--------------|-------|------------|--------------|-------------|
| 3    | 3207-0300 | QF   | 11            | 4            | 22    | \$54.40    | \$93.20      | 3.75        |
| 4    | 3207-0400 |      | 11            | 4            | 22    | \$54.40    | \$93.20      | 4.00        |
| 5    | 3207-0500 |      | 11            | 6            | 22    | \$62.50    | \$107.30     | 4.25        |
| 6    | 3207-0600 |      | 11            | 6            | 22    | \$65.10    | \$111.80     | 4.50        |
| 7    | 3207-0700 |      | 11            | 8            | 22    | \$70.10    | \$120.30     | 4.75        |
| 8    | 3207-0800 |      | 11            | 8            | 22    | \$72.40    | \$124.20     | 5.00        |
| 9    | 3207-0900 |      | 11            | 10           | 22    | \$79.70    | \$136.60     | 5.25        |
| 10   | 3207-1000 |      | 11            | 10           | 22    | \$84.70    | \$145.30     | 5.50        |
| 11   | 3207-1100 |      | 11            | 10           | 22    | \$88.60    | \$152.30     | 5.75        |
| 12   | 3207-1200 |      | 11            | 12           | 22    | \$88.60    | \$152.30     | 6.25        |
| 13   | 3207-1300 |      | 11            | 12           | 20    | \$97.60    | \$167.70     | 6.75        |
| 14   | 3207-1400 |      | 11            | 14           | 20    | \$97.60    | \$167.70     | 7.50        |
| 15   | 3207-1500 |      | 11            | 14           | 20    | \$106.90   | \$183.30     | 8.25        |
| 16   | 3207-1600 |      | 11            | 16           | 20    | \$106.90   | \$183.30     | 10.00       |
| 17   | 3207-1700 |      | 11            | 16           | 20    | \$119.50   | \$205.00     | 11.75       |
| 18   | 3207-1800 |      | 11            | 18           | 20    | \$119.50   | \$205.00     | 13.50       |
| 20   | 3207-2000 |      | 11            | 20           | 20    | \$138.20   | \$237.50     | 15.00       |
| 22   | 3207-2200 |      | 11            | 22           | 20    | \$153.70   | \$264.10     | 18.00       |
| 24   | 3207-2400 |      | 11            | 24           | 20    | \$176.70   | \$303.70     | 22.00       |



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



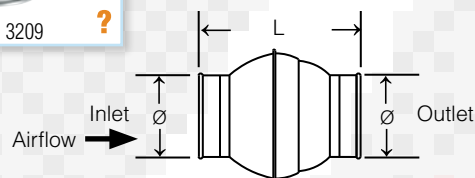
To Adjust, Loosen Clamp and Turn Outer Sleeve To Get Proper Air-flow Re-Clamp When Finished

# QF Ball Joint

| Ø in | Part No.  | Ends | Length (L) in | Gauge | Galv Price | Weight Galv |
|------|-----------|------|---------------|-------|------------|-------------|
| 4    | 3209-0400 | QF   | 9.50          | 20    | \$165.80   | 2.10        |
| 6    | 3209-0600 |      | 11.75         | 20    | \$209.50   | 3.85        |
| 8    | 3209-0800 |      | 14.00         | 18    | \$279.20   | 5.00        |
| 10   | 3209-1000 |      | 14.25         | 18    | \$366.60   | 8.95        |
| 12   | 3209-1200 |      | 15.25         | 16    | \$410.20   | 9.25        |
| 14   | 3209-1400 |      | 17.50         | 14    | \$715.60   | 15.70       |



- Allows up to 22° of movement off-center.
- Odd sizes available with 6 week lead time.
- Not available in SS.



#-Denotes an item that is returnable. See page 51 for a full listing of returnable items.

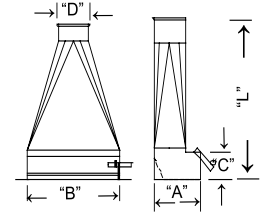
## QF Floor Sweep

| Ø in | 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     | \$183.40    | \$357.50     | 5.80          |
| 4    | 3248-0400 |      |        |        |        |        | \$183.40 #  | \$357.50     | 6.90          |
| 5    | 3248-0500 |      |        |        |        |        | \$192.80 #  | \$376.80     | 7.30          |
| 6    | 3248-0600 |      |        |        |        |        | \$201.80 #  | \$393.40     | 7.55          |
| 7    | 3248-0700 |      |        |        |        |        | \$219.90    | \$444.30     | 7.75          |
| 8    | 3248-0800 |      |        |        |        |        | \$230.80    | \$465.00     | 8.25          |
| 9    | 3248-0900 |      |        |        |        |        | \$239.90    | \$484.70     | 9.50          |
| 10   | 3248-1000 |      |        |        |        |        | \$249.10    | \$498.80     | 11.75         |
| 11   | 3248-1100 |      |        |        |        |        | \$258.10    | \$548.60     | 13.20         |
| 12   | 3248-1200 |      |        |        |        |        | \$258.10    | \$548.60     | 15.70         |



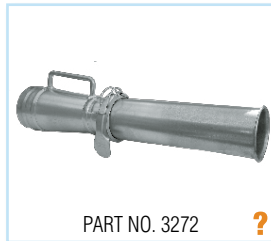
PART NO. 3248

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



## QF Suction Nozzle Assembly

| Ø in | Part No.  | Ends | Galv. Price | SS 304 PRICE | WEIGHT (GALV) |
|------|-----------|------|-------------|--------------|---------------|
| 4    | 3272-0400 | QF   | \$88.10     | \$251.40     | 5.60          |



PART NO. 3272

- Affix to end of hose for suction cleaning.
- 4" hose connection.

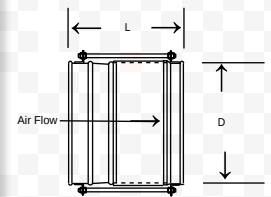
## QF Viewing Spool

| Ø in | Part No.  | Ends | Length (L) | Gauge | Galv. Price | SS 304 Price | Weight (Galv) |
|------|-----------|------|------------|-------|-------------|--------------|---------------|
| 3    | 3205-0300 | QF   | 12.5       | 22    | \$251.10    | \$320.00     | 2.50          |
| 4    | 3205-0400 |      | 12.5       | 22    | \$251.10    | \$320.00     | 3.00          |
| 5    | 3205-0500 |      | 12.5       | 22    | \$257.20    | \$327.70     | 3.50          |
| 6    | 3205-0600 |      | 12.5       | 22    | \$261.40    | \$333.10     | 4.10          |
| 7    | 3205-0700 |      | 12.5       | 22    | \$278.10    | \$354.40     | 4.60          |
| 8    | 3205-0800 |      | 12.5       | 22    | \$291.70    | \$371.70     | 5.00          |
| 9    | 3205-0900 |      | 12.5       | 22    | \$320.30    | \$408.20     | 5.45          |
| 10   | 3205-1000 |      | 12.5       | 22    | \$341.30    | \$435.00     | 6.25          |
| 11   | 3205-1100 |      | 12.5       | 22    | \$374.30    | \$476.90     | 7.10          |
| 12   | 3205-1200 |      | 12.5       | 22    | \$374.30    | \$476.90     | 8.20          |
| 14   | 3205-1400 |      | 12.5       | 20    | \$408.80    | \$520.90     | 11.25         |
| 15   | 3205-1500 |      | 12.5       | 20    | \$429.80    | \$547.70     | 14.10         |
| 16   | 3205-1600 |      | 12.5       | 20    | \$429.80    | \$547.70     | 18.25         |
| 18   | 3205-1800 |      | 12.5       | 20    | \$537.90    | \$596.10     | 22.60         |



PART NO. 3205

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



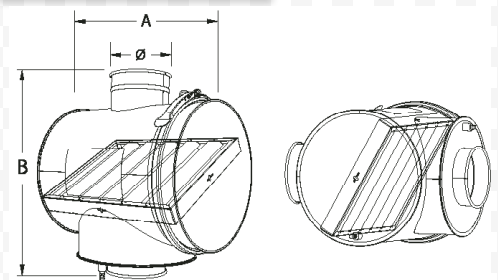
## QF Oil Mist Recycler

| Ø in | Part No.  | Gauge | A in | B in | Baffle Size in | Galv Price | SS 304 Price | Weight Galv |
|------|-----------|-------|------|------|----------------|------------|--------------|-------------|
| 3    | 3192-0300 | 22    | 14   | 18   | 10 x 14        | \$381.90   | \$883.50     | 11.10       |
| 4    | 3192-0400 | 22    | 14   | 18   | 10 x 14        | \$381.90   | \$883.50     | 11.25       |
| 5    | 3192-0500 | 22    | 14   | 18   | 10 x 14        | \$381.90   | \$883.50     | 11.45       |
| 6    | 3192-0600 | 22    | 14   | 18   | 10 x 14        | \$381.90   | \$883.50     | 11.60       |
| 7    | 3192-0700 | 22    | 20   | 24   | 16 x 20        | \$455.10   | \$1,052.70   | 22.70       |
| 8    | 3192-0800 | 22    | 20   | 24   | 16 x 20        | \$455.10   | \$1,052.70   | 22.85       |
| 9    | 3192-0900 | 22    | 20   | 24   | 16 x 20        | \$455.10   | \$1,052.70   | 23.10       |
| 10   | 3192-1000 | 22    | 20   | 24   | 16 x 20        | \$455.10   | \$1,052.70   | 23.30       |
| 12   | 3192-1200 | 22    | 20   | 28   | 20 x 20        | \$548.90   | \$1,269.70   | 32.85       |



PART NO. 3192

- Installs in vertical or horizontal applications.
- Extracts oil to minimize amount of oil flowing through entire system.
- Consists of recycler unit, molded gasket, clamp and end cap.
- 5' clear hose and hose clamp provided for drain tap.



## QF In-line Spark Trap

| Ø in | Part No.  | Ends | H in | W in | Galv Price QF | SS 304 Price QF | Galv Price AF | SS 304 Price AF | Weight (Galv QF) LBS |
|------|-----------|------|------|------|---------------|-----------------|---------------|-----------------|----------------------|
| 4    | 3255-0400 | QF   | 7    | 18   | \$335.50      | \$1156.70       | \$352.70      | 1235.70         | 6                    |
| 5    | 3255-0500 |      | 9    | 20   | \$394.00      | \$1283.00       | \$412.80      | 1367.00         | 7                    |
| 6    | 3255-0600 |      | 10   | 20   | \$482.50      | \$1474.20       | \$506.10      | 1562.40         | 8                    |
| 7    | 3255-0700 |      | 12   | 22   | \$566.50      | \$1655.60       | \$591.70      | 1750.20         | 11                   |
| 8    | 3255-0800 |      | 13   | 22   | \$643.00      | \$1820.90       | \$674.20      | 1918.50         | 13                   |
| 9    | 3255-0900 |      | 15   | 24   | \$680.50      | \$1901.90       | \$715.30      | 1999.70         | 15                   |
| 10   | 3255-1000 |      | 16   | 24   | \$727.00      | \$2002.30       | \$768.40      | 2102.70         | 16                   |
| 12   | 3255-1200 |      | 18   | 26   | \$776.50      | \$2109.20       | \$830.70      | 2214.60         | 21                   |
| 14   | 3255-1400 |      | 22   | 28   | \$948.30      | \$2480.20       | \$1015.50     | 2591.20         | 26                   |



PART NO. 3255

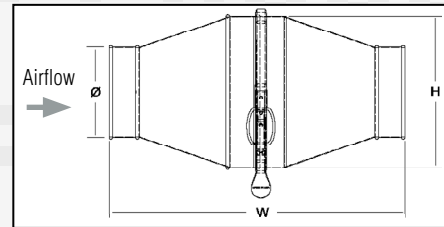
- Greatly reduces the possibility of fire in cyclones / collectors by decreasing the number of sparks which could reach these through the air handling system. This is accomplished by disrupting the laminar airflow to cause sparks to cool and extinguish before they can enter the dust collector / cyclone.

- No moving parts and no power required for operation.

- Velocity: 1500-5000 fpm

- Duct distance recommended: At least ten diameters from dust collector / cyclone and the source (example: 8" duct line, recommended distance is min. 80")

- Horizontal mounting only.



**NOTE:** Does not replace spark detection or explosion isolation devices. Complementary device to existing detection and suppression equipment.

## OIL MIST SYSTEM

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

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'.

### Leak-Free Epoxy Caulking



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

**LEAK-FREE EPOXY CAULKING IS AVAILABLE ON ALL NON-LASER WELDED PARTS. 25% UPCHARGE**

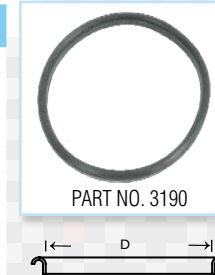
Classification: 1. ASTM D-1056-68.....SBE43  
2. ASTM D-1056-85, 91, 98.....2B3

### Leak-free Molded Gasket

| Ø in | Part No.  | Price   | Weight |
|------|-----------|---------|--------|
| 4    | 3190-0400 | \$2.00  | 0.02   |
| 5    | 3190-0500 | \$2.20  | 0.03   |
| 6    | 3190-0600 | \$2.40  | 0.04   |
| 7    | 3190-0700 | \$3.90  | 0.08   |
| 8    | 3190-0800 | \$4.10  | 0.09   |
| 9    | 3190-0900 | \$4.40  | 0.10   |
| 10   | 3190-1000 | \$4.80  | 0.11   |
| 12   | 3190-1200 | \$7.70  | 0.17   |
| 14   | 3190-1400 | \$8.20  | 0.23   |
| 16   | 3190-1600 | \$9.50  | 0.26   |
| 18   | 3190-1800 | \$10.60 | 0.28   |
| 20   | 3190-2000 | \$11.70 | 0.29   |
| 22   | 3190-2200 | \$14.50 | 0.31   |
| 24   | 3190-2400 | \$15.80 | 0.33   |

Classification: 1. ASTM D-2000 M2BG510 A24 B34 E014 E034 EF11 EF21

### Leak-Free Molded Gasket



PART NO. 3190

- 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.

### Leak-Free O-Ring

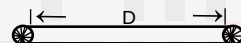
| Ø in | Part No.  | Price  | Weight |
|------|-----------|--------|--------|
| 4    | 3191-0400 | \$1.80 | 0.01   |
| 5    | 3191-0500 | \$1.90 | 0.02   |
| 6    | 3191-0600 | \$1.90 | 0.03   |
| 7    | 3191-0700 | \$2.20 | 0.04   |
| 8    | 3191-0800 | \$2.30 | 0.08   |
| 9    | 3191-0900 | \$2.50 | 0.09   |
| 10   | 3191-1000 | \$2.60 | 0.10   |
| 12   | 3191-1200 | \$2.80 | 0.17   |
| 14   | 3191-1400 | \$3.10 | 0.23   |
| 16   | 3191-1600 | \$3.30 | 0.26   |
| 18   | 3191-1800 | \$3.60 | 0.28   |
| 20   | 3191-2000 | \$3.80 | 0.29   |
| 22   | 3191-2200 | \$4.10 | 0.31   |
| 24   | 3191-2400 | \$4.30 | 0.33   |

### Leak-Free O-Ring



PART NO. 3191

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



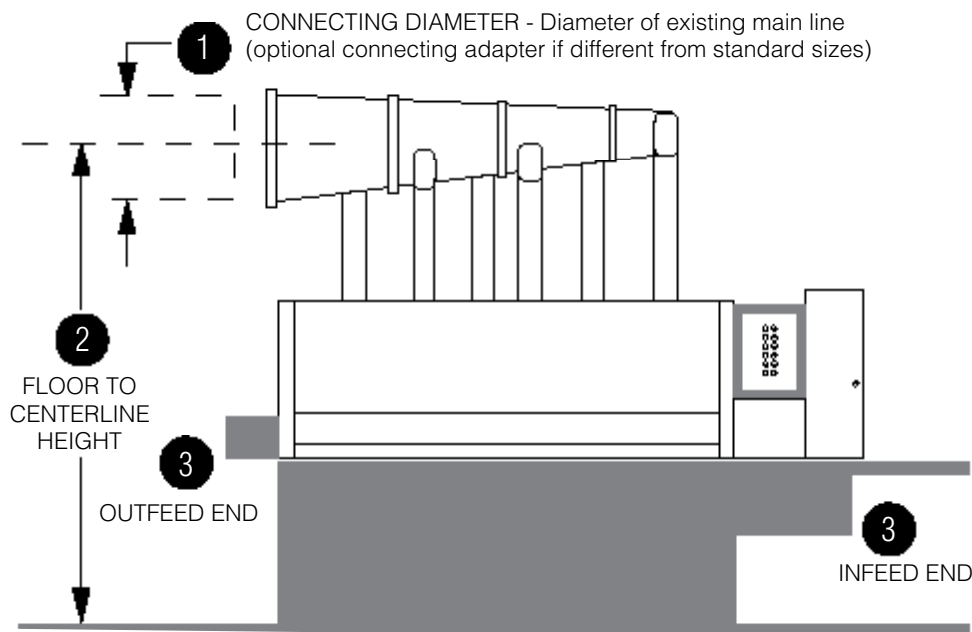
# Manifold Specification

From: \_\_\_\_\_ Date: \_\_\_\_\_

Tel: \_\_\_\_\_ Email: \_\_\_\_\_

**Please provide the following information when ordering a dust collection manifold.**

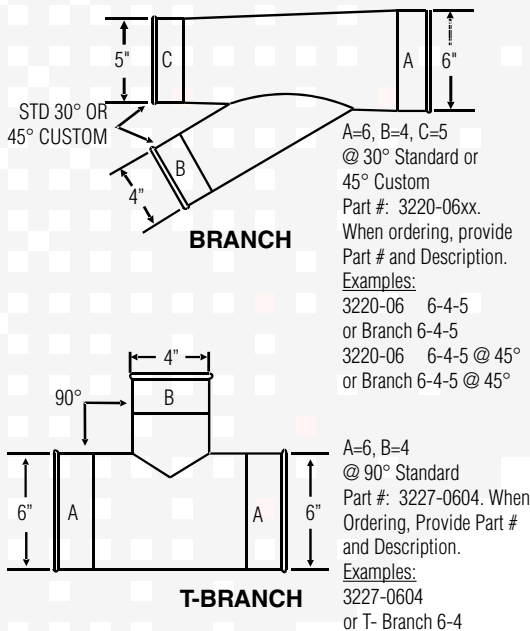
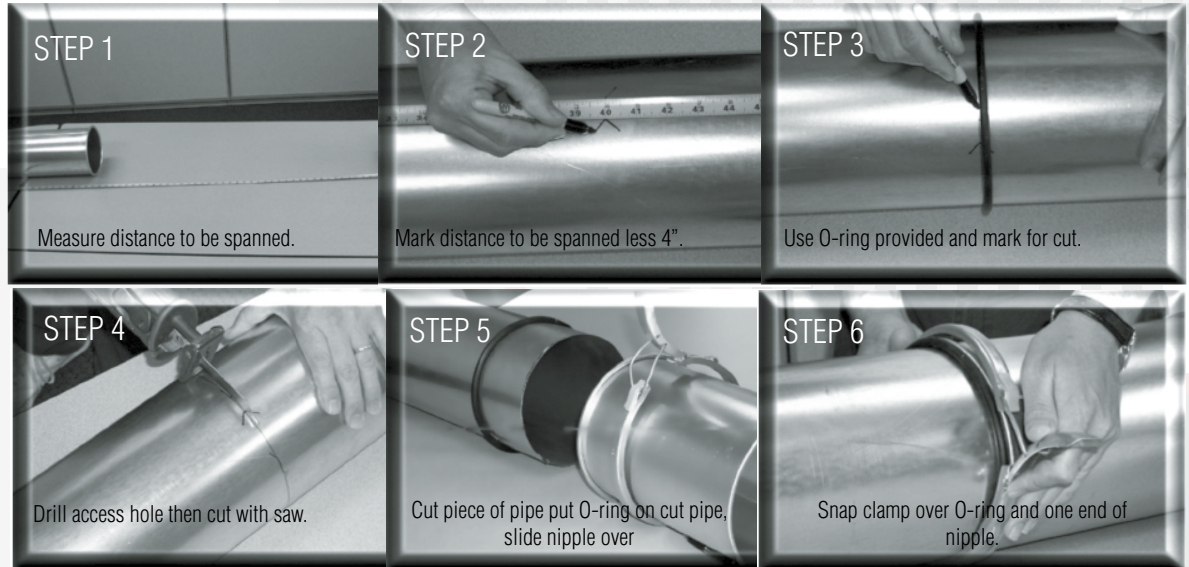
- ① Connecting Diameter? \_\_\_\_\_
- ② Floor to Centerline Height? \_\_\_\_\_
- ③ Location of Main Line? \_\_\_\_\_ OUTFEED? INFEED? (circle one)
- ④ Number of connections \_\_\_\_\_ HARD PIPE? FLEX? (circle one)
- ⑤ Provide a port layout, including connection diameters.



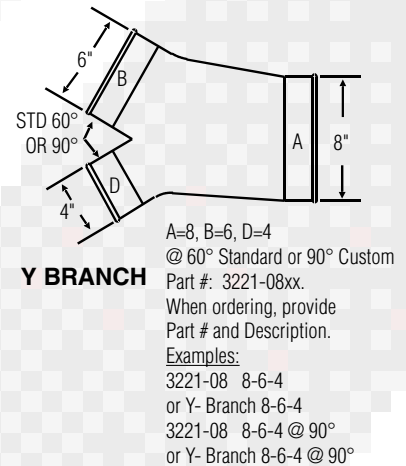
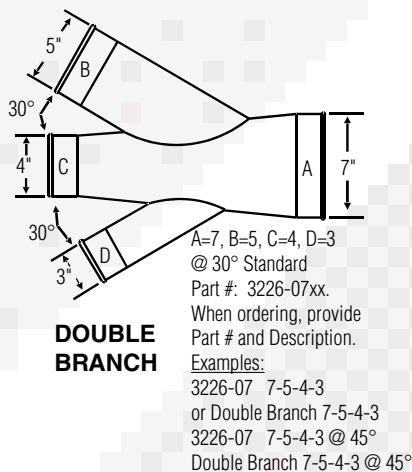
# Instructions for Using the QF Adjustable Nipple with Rubber O-Ring for Dry System

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

**NOTE:**  
**Install cut end of Pipe in the same direction as the airflow.**



## Branch Styles



## Nordfab Drawing Service

Provide Nordfab with basic information about the job:

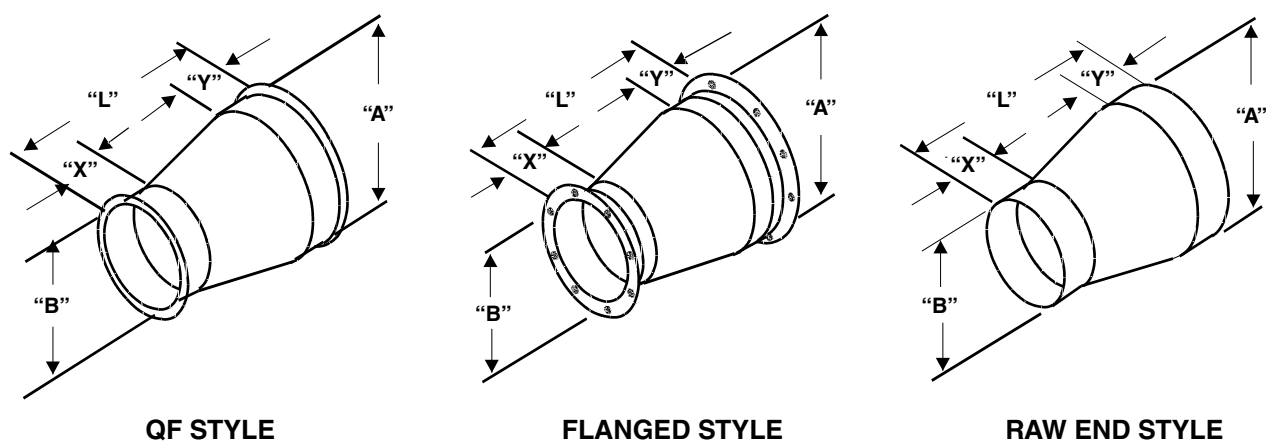
- Material conveyed
- Machine type and placement
- Recommended velocity

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

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

\* Minimum drawing service charge of \$150.00

# Reducer Styles



A) Reducers are produced by the following formula:

QF LENGTH = (A-B) + 6" [7" MIN]  
FL LENGTH = (A-B) + 8" [9" MIN]

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

| DIA.      | GALV. GAUGE | SS GAUGE |
|-----------|-------------|----------|
| 4" - 12"  | 22          | 22       |
| 14" - 24" | 20          | 20       |

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

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

# Transition Styles

Transition Rectangular to Round

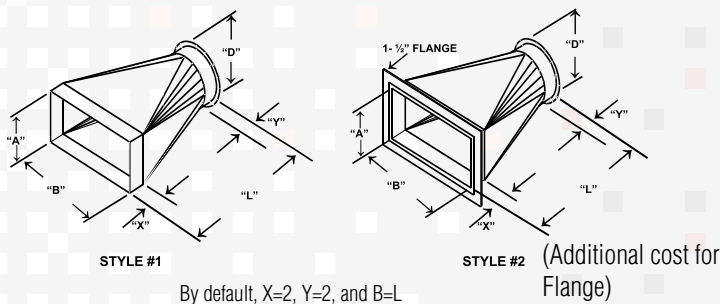


PART NO. 3225

Transition Square to Square



PART NO. 3225



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

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" = 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.**

# 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.

### Useful Tools and Important Safety Information:

#### Always use proper safety equipment when installing Quick-Fit

- Work Gloves.
- Safety Helmet
- File
- Level
- Eye & Ear Protection
- Cutting Device
- Scaffolding
- Plumb

**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 a box until you need its contents, 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 that 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 the needed parts to you 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 QF 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 that your ceiling and hangers must support, always allow for the ducting being 100% clogged with whatever material is being conveyed.

**STEP SEVEN: Pre-Stretch Your Clamps.** Nordfab QF 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 sprang open.

# "QF" PARTS LIST TAKE-OFF WORKSHEET

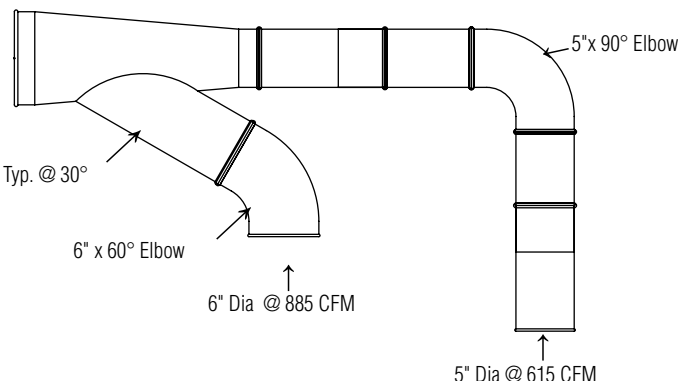
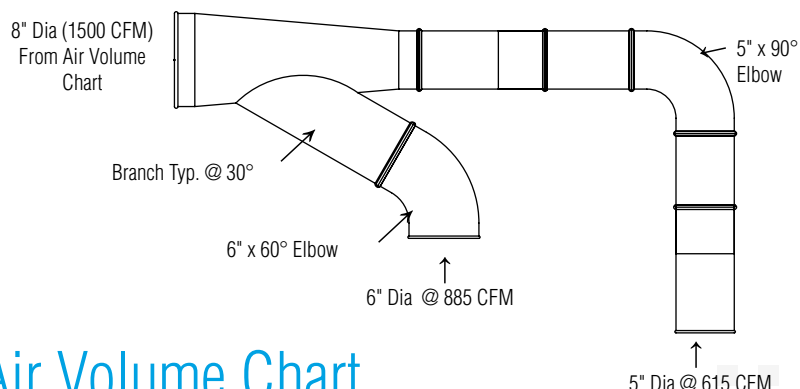
Your Name: \_\_\_\_\_ Fax: \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_

| Company Name: |                           | Phone:                    |        |     |     | Project: |              |             |                                     | Date:                           |                        |                                                                                                    |                                  |   |   |   |  |
|---------------|---------------------------|---------------------------|--------|-----|-----|----------|--------------|-------------|-------------------------------------|---------------------------------|------------------------|----------------------------------------------------------------------------------------------------|----------------------------------|---|---|---|--|
| QF DIA.       | PIPE 1/2" LONG (3" - 36") | ADD. RIPPLED ENCL. Q-RING | ELBOWS |     |     |          | BLANK SLATES | FLOOR SWEEP | MACHINE ADAPTOR STAND. IS QF TO 30" | FLEX HOSE RUBBER OR STEEL CLAMP | FLEX HOSE RUBBER CLAMP | MISC. FITTINGS (REDUCERS, ADAPTERS, TRANSITIONS, ANY FITTINGS THAT CAN NOT BE SPECIFIED ELSEWHERE) | BRANCH, DOUBLE BRANCH & Y BRANCH |   |   |   |  |
|               |                           |                           | 90°    | 45° | 30° | 15°      |              |             |                                     |                                 |                        |                                                                                                    | A                                | B | C | D |  |
| 3"            |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 4"            |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 5"            |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 6"            |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 7"            |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 8"            |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 9"            |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 10"           |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 11"           |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 12"           |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 13"           |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 14"           |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 15"           |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 16"           |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 17"           |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 18"           |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 20"           |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 22"           |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
| 24"           |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
|               |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |
|               |                           |                           |        |     |     |          |              |             |                                     |                                 |                        |                                                                                                    |                                  |   |   |   |  |

## 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.

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 an 8-6-5 branch.

## Air Volume Chart

### 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<br>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 | 12655 | 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 | 21370 | 23500 | 25650 | 27780 | 29920 |
| 30        | 9800                              | 12260 | 14700 | 17170 | 19625 | 22080 | 24530 | 26990 | 29440 | 31890 | 34350 |
| 32        | 11160                             | 13950 | 16750 | 19541 | 22330 | 25120 | 27910 | 30700 | 33490 | 36302 | 39070 |
| 34        | 12600                             | 15755 | 18905 | 22055 | 25210 | 28360 | 31510 | 34660 | 37810 | 40965 | 44115 |
| 36        | 14130                             | 17665 | 21195 | 24730 | 28260 | 31800 | 35325 | 38860 | 42390 | 45925 | 49455 |
| 38        | 15745                             | 19680 | 23615 | 27550 | 31490 | 35425 | 39360 | 43295 | 47230 | 51170 | 55100 |
| 40        | 17445                             | 21800 | 26170 | 30530 | 34890 | 39250 | 43610 | 47975 | 52330 | 56700 | 61055 |

# Shipping Details



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

## LTL (Less Than Truckload) Shipments

- 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 offered 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 can affect shipping 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 unacceptable 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 40" 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 or use a dedicated trucking company. Splitting up shipments 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.

## 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° 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 for most shipping points (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.



*Nested Pipe*

*Nordfab packages items in the most economical manner, based on experience.*

# Quick-Fit™ Products Conditions of Sale

## GENERAL CONDITIONS OF SALE

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

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

## LIMITED WARRANTY

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

- A) failures not reported to Nordfab within the warranty period specified above;
- B) failure or damage due to misapplication, abuse, improper installation or abnormal conditions of any kind, including, but not limited to, temperature, dirt or other corrosive matter;
- C) failures due to operation, either intentional or otherwise, above rated capacities or in an otherwise improper manner;

## 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 "SS" after standard part numbers specifies a SS part. For special parts or items to be custom manufactured, call for quotation.

- D) products which have been in any way tampered with or altered by anyone other than an authorized representative of Nordfab;
- E) products damaged in shipment or otherwise without fault of Nordfab;
- F) expenses incurred by Buyer in an attempt to repair, rework, or replace any alleged defective product; and
- G) defects in material and workmanship which are attributable to drawings and specifications provided by Buyer.

## TERMS OF PAYMENT

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

## CLAIMS FOR SHORTAGES

Any claims for loss, breakage (obvious or concealed), or shortage are Buyer's sole responsibility and should be made to the carrier immediately. Nordfab will render Buyer reasonable assistance in securing satisfactory adjustment of such claims. Any notice of shortages or other errors must be made in writing to Nordfab within 15 days after receipt of shipment. Failure to give such notice shall constitute unqualified acceptance of the product and a waiver by Buyer of all claims against Nordfab for loss, breakage or shortage. Risk of loss for damage to products sold under this Agreement passes to Buyer when the carrier takes custody of any of the products purchased under this Agreement regardless of who pays shipping costs.

## LIMITATION OF LIABILITY

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

## RETURN GOODS AUTHORIZATION

To return products to Nordfab, dealers must fill out an RGA Worksheet. The RGA can be requested from Nordfab's Sales Department. Each RGA must be filled out completely. Absolutely no shipments will be accepted by Nordfab without an RGA. Shipments without RGAs will be returned to shipper at shipper's expense. No RGA will be issued for any order more than 90 days from the original ship date. If issued, an RGA is valid for 30 days from date of issue. Nordfab products must be received at our designated return point factory within that 30 days in order for the dealer to receive credit. Only restockable items may be returned to Nordfab. Restockable items are identified in Nordfab's price list with a pound sign ("#") after the list price. All other items are considered custom or special order and are nonreturnable. Nordfab reserves the right to limit return quantities. All returned goods must be shipped freight prepaid. All Nordfab ductwork must be shipped vertically with rolled edge down to avoid incurring out-of-round damage during shipping. There is a 25% restocking charge for all returned goods. All components must arrive in "as-new" sellable condition. Damage and "white rust" occur over time at job sites, which may cause the items to not be sellable. Final determination of sell ability will be determined by Nordfab, at its sole discretion.

## Return Goods Chart

# SS 304

# Galvanized

[illegible]

0 = Returnable item  
Nordfab reserves the right to limit quantities of any returned items

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

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

Take advantage of our online resources at [www.nordfab-us.com](http://www.nordfab-us.com):



Product Catalog  
Part no. 3610-0400-206000



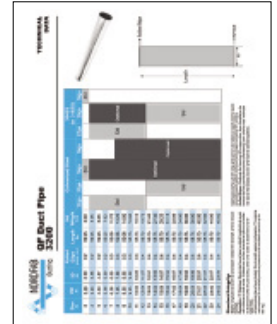
Applications



Clampdown Sheet  
Part no. 3610-0400-400000



How to Design a System



Product Technical Data



Oil Mist System



Pipe Hangers



Nordfab Drawing Service



Manifold Spec. Sheet



Applications Brochures

View our 2 minute  
Quick-Fit video also  
available on our website

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