

## Roughing Vacuum Components



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# Roughing Vacuum COMPONENTS

This section offers a selection of products for the rough vacuum section of your system. Flexible vacuum hose assists in connecting sections of your system that are misaligned or with vibration isolation. PVC vacuum fittings and tubing are an economical means of running rough vacuum and exhaust lines.



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Roughing Vacuum Components

## Overview

Vacuum flexible hose is the best solution for misaligned vacuum ports or for those applications where straight plumbing is simply not an option. These products are also excellent vibration dampeners. Flexible vacuum hose is available in stainless steel or wire-reinforced PVC.

PVC vacuum fittings are an excellent money saving option for rough vacuum plumbing and exhaust lines. One advantage provided by PVC fittings is easy on site customization of the fittings and tubing that you purchase.

## ISO-QF Bellows

### Materials:

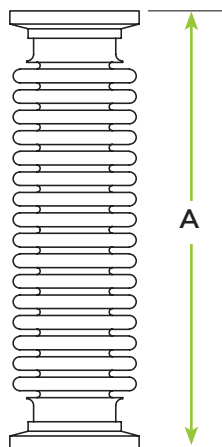
- Flanges: 304 stainless steel
- Flexible hose: 321 stainless steel

### Product Notes:

- Corrects misaligned connections

### Options: Call for price and delivery

- Custom lengths
- Custom flange combination



| PART #  | REFERENCE ID   | HOSE I.D. (in) | WALL (in) | A (in) |
|---------|----------------|----------------|-----------|--------|
| 0800000 | QF16-075-B-4.0 | 0.75           | 0.006     | 4.00   |
| 0800001 | QF25-100-B-4.0 | 1.00           | 0.006     | 4.00   |
| 0800002 | QF40-150-B-4.0 | 1.50           | 0.006     | 4.00   |
| 0800003 | QF50-200-B-4.0 | 2.00           | 0.006     | 4.00   |



## CF Bellows - Rotatable

### Materials:

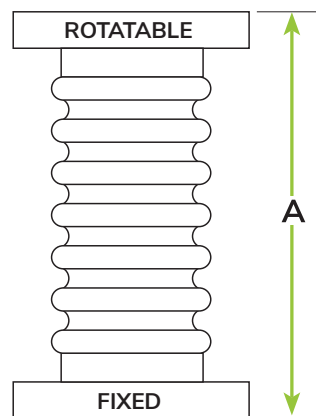
- Flanges: 304 stainless steel
- Flexible hose: 321 stainless steel formed bellows

### Product Notes:

- Corrects misaligned connections
- Compress up to 20% or extend up to 15% of free length

### Options: Call for price and availability

- Custom lengths
- Tapped flanges
- Custom flange combination
- Alternative materials: (i.e. 316L stainless steel)



| PART #  | REFERENCE ID    | FLANGE TYPE | HOSE I.D. (in) | WALL (in) | A (in) |
|---------|-----------------|-------------|----------------|-----------|--------|
| 0800089 | CF133-075-B-4.0 | CF133       | 0.75           | 0.006     | 4.00   |
| 0800092 | CF212-100-B-4.0 | CF212       | 1.00           | 0.006     | 4.00   |
| 0800095 | CF275-150-B-4.0 | CF275       | 1.50           | 0.006     | 4.00   |
| 0800098 | CF338-150-B-4.0 | CF338       | 2.00           | 0.006     | 4.00   |
| 0800099 | CF450-250-B-6.0 | CF450       | 2.50           | 0.006     | 6.00   |
| 0800100 | CF462-300-B-6.0 | CF462       | 3.00           | 0.008     | 6.00   |
| 0800101 | CF600-400-B-6.4 | CF600       | 4.00           | 0.008     | 6.40   |
| 0800103 | CF800-600-B-8.5 | CF800       | 6.00           | 0.010     | 8.50   |

## ASA Bellows - Rotatable

### Materials:

- Flanges: 304 stainless steel
- Flexible hose: 321 stainless steel formed bellows

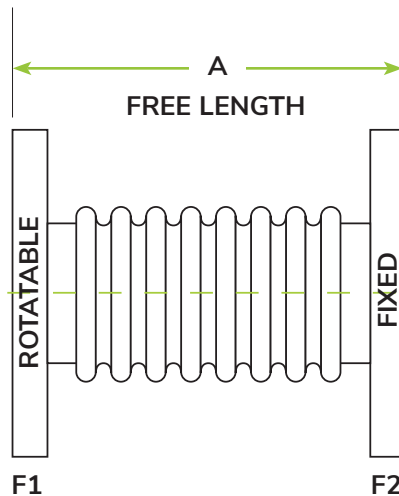
### Product Notes:

- Corrects misaligned connections
- One fixed and one rotatable flange per fitting
- O-ring groove available

### Options:

#### Call for price and delivery

- Larger sizes
- Custom lengths
- Custom flange combinations



| PART #  | REFERENCE ID      | FLANGE TYPE | HOSE I.D. (in) | WALL THICKNESS (in) | A (in) |
|---------|-------------------|-------------|----------------|---------------------|--------|
| 0800197 | ASA100-100-B-4.00 | ASA100      | 1.00           | 0.006               | 4.00   |
| 0800198 | ASA100-150-B-4.00 | ASA100      | 1.50           | 0.006               | 4.00   |
| 0800199 | ASA150-200-B-4.00 | ASA150      | 2.00           | 0.006               | 4.00   |
| 0800200 | ASA150-250-B-6.00 | ASA150      | 2.50           | 0.008               | 6.00   |
| 0800201 | ASA200-300-B-6.00 | ASA200      | 3.00           | 0.008               | 6.00   |
| 0800202 | ASA300-400-B-6.00 | ASA300      | 4.00           | 0.010               | 6.00   |
| 0800203 | ASA400-400-B-6.00 | ASA400      | 4.00           | 0.010               | 6.00   |
| 0800204 | ASA400-600-B-8.00 | ASA400      | 6.00           | 0.012               | 8.00   |
| 0800205 | ASA600-600-B-8.00 | ASA600      | 6.00           | 0.012               | 8.00   |



## ISO-LF Bellows

### Materials:

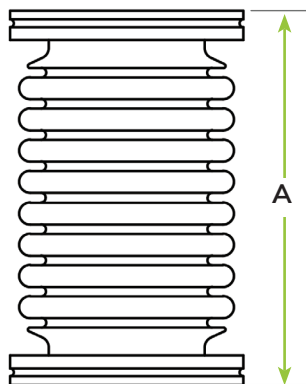
- Flanges: 304 stainless steel
- Flexible hose: 321 stainless steel

### Product Notes:

- Corrects misaligned connections

### Options: Call for price and delivery

- Larger sizes
- Custom lengths
- Custom flange combination



| PART #  | REFERENCE ID    | HOSE I.D. (in) | WALL (in) | A (in) | B (in) |
|---------|-----------------|----------------|-----------|--------|--------|
| 0800069 | LF63-250-B-6.0  | 2.5            | 0.006     | 6.00   | 4.50   |
| 0800070 | LF80-300-B-6.0  | 3.0            | 0.008     | 6.00   | 4.50   |
| 0800071 | LF100-400-B-6.0 | 4.0            | 0.008     | 6.00   | 4.50   |
| 0800072 | LF160-600-B-8.0 | 6.0            | 0.010     | 8.00   | 5.70   |

## ASA/ANSI Bellows - Fixed

### Materials:

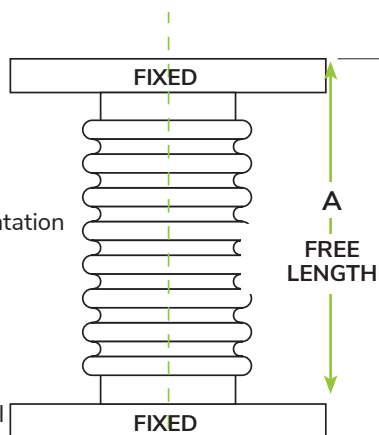
- Fixed Flanges: 304 stainless steel
- Flexible hose: 321 stainless steel formed bellows

### Product Notes:

- Corrects misaligned connections
- Both flanges have a fixed bolt hole orientation

### Options: Call for price and delivery

- Larger sizes
- Custom lengths
- O-ring groove available
- Custom flange combination
- Alternative materials: 316 stainless steel



| PART #  | REFERENCE ID             | FLANGE TYPE | HOSE I.D. (in) | WALL (in) | A (in) |
|---------|--------------------------|-------------|----------------|-----------|--------|
| 0800182 | ASA100XASA100-100-B-4.00 | ASA100      | 1.00           | 0.006     | 4.00   |
| 0800183 | ASA100XASA100-150-B-4.00 | ASA100      | 1.50           | 0.006     | 4.00   |
| 0800184 | ASA150XASA150-200-B-4.00 | ASA150      | 2.00           | 0.006     | 4.00   |
| 0800186 | ASA150XASA150-250-B-6.00 | ASA150      | 2.50           | 0.006     | 6.00   |
| 0800187 | ASA200XASA200-300-B-6.00 | ASA200      | 3.00           | 0.008     | 6.00   |
| 0800188 | ASA300XASA300-400-B-6.00 | ASA300      | 4.00           | 0.008     | 6.00   |
| 0800189 | ASA400XASA400-400-B-6.00 | ASA400      | 4.00           | 0.008     | 6.00   |
| 0800190 | ASA400XASA400-600-B-8.00 | ASA400      | 6.00           | 0.010     | 8.00   |
| 0800191 | ASA600XASA600-600-B-8.00 | ASA 600     | 6.00           | 0.010     | 8.00   |

## ISO-QF/LF Bellows

### Materials:

- Flanges: 304 stainless steel
- Formed flexible hose: 321 stainless steel

### Product Notes:

- Thin wall design provides maximum flexibility
- Medium wall design for price economy
- Corrects misaligned connections
- Provides vibration isolation

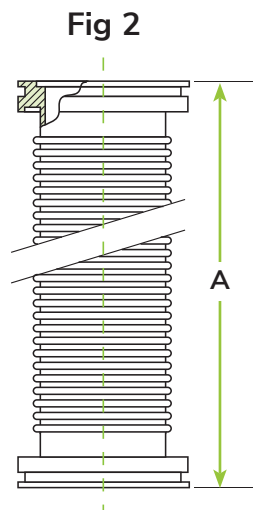
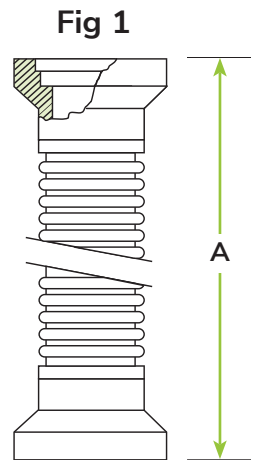
### Options: Call for price and delivery

- Custom lengths
- Custom flange combination



## ISO-QF/LF Bellows - Thin Wall

| PART #  | REFERENCE ID    | FLANGES | DRAWING FIGURE | NOMINAL TUBE I.D. (in) | WALL (in) | A O.A.L (in) |
|---------|-----------------|---------|----------------|------------------------|-----------|--------------|
| 0800004 | QF16-075-B-10.0 | QF16    | 1              | 0.75                   | 0.006     | 10           |
| 0800005 | QF16-075-B-12.0 | QF16    | 1              | 0.75                   | 0.006     | 12           |
| 0800006 | QF16-075-B-18.0 | QF16    | 1              | 0.75                   | 0.006     | 18           |
| 0800007 | QF16-075-B-20.0 | QF16    | 1              | 0.75                   | 0.006     | 20           |
| 0800008 | QF16-075-B-24.0 | QF16    | 1              | 0.75                   | 0.006     | 24           |
| 0800009 | QF16-075-B-36.0 | QF16    | 1              | 0.75                   | 0.006     | 36           |
| 0800010 | QF16-075-B-40.0 | QF16    | 1              | 0.75                   | 0.006     | 40           |
| 0800011 | QF16-075-B-48.0 | QF16    | 1              | 0.75                   | 0.006     | 48           |
| 0800012 | QF25-100-B-10.0 | QF25    | 1              | 1.00                   | 0.006     | 10           |
| 0800013 | QF25-100-B-12.0 | QF25    | 1              | 1.00                   | 0.006     | 12           |
| 0800014 | QF25-100-B-18.0 | QF25    | 1              | 1.00                   | 0.006     | 18           |
| 0800015 | QF25-100-B-20.0 | QF25    | 1              | 1.00                   | 0.006     | 20           |
| 0800016 | QF25-100-B-24.0 | QF25    | 1              | 1.00                   | 0.006     | 24           |
| 0800017 | QF25-100-B-36.0 | QF25    | 1              | 1.00                   | 0.006     | 36           |
| 0800018 | QF25-100-B-40.0 | QF25    | 1              | 1.00                   | 0.006     | 40           |
| 0800019 | QF25-100-B-48.0 | QF25    | 1              | 1.00                   | 0.006     | 48           |
| 0800020 | QF40-150-B-10.0 | QF40    | 1              | 1.50                   | 0.006     | 10           |
| 0800021 | QF40-150-B-12.0 | QF40    | 1              | 1.50                   | 0.006     | 12           |
| 0800022 | QF40-150-B-18.0 | QF40    | 1              | 1.50                   | 0.006     | 18           |
| 0800023 | QF40-150-B-20.0 | QF40    | 1              | 1.50                   | 0.006     | 20           |
| 0800024 | QF40-150-B-24.0 | QF40    | 1              | 1.50                   | 0.006     | 24           |
| 0800025 | QF40-150-B-36.0 | QF40    | 1              | 1.50                   | 0.006     | 36           |
| 0800026 | QF40-150-B-40.0 | QF40    | 1              | 1.50                   | 0.006     | 40           |
| 0800027 | QF40-150-B-48.0 | QF40    | 1              | 1.50                   | 0.006     | 48           |
| 0800028 | QF50-200-B-10.0 | QF50    | 1              | 2.00                   | 0.006     | 10           |
| 0800029 | QF50-200-B-12.0 | QF50    | 1              | 2.00                   | 0.006     | 12           |
| 0800030 | QF50-200-B-18.0 | QF50    | 1              | 2.00                   | 0.006     | 18           |
| 0800031 | QF50-200-B-20.0 | QF50    | 1              | 2.00                   | 0.006     | 20           |
| 0800032 | QF50-200-B-24.0 | QF50    | 1              | 2.00                   | 0.006     | 24           |
| 0800033 | QF50-200-B-36.0 | QF50    | 1              | 2.00                   | 0.006     | 36           |
| 0800034 | QF50-200-B-40.0 | QF50    | 1              | 2.00                   | 0.006     | 40           |
| 0800035 | QF50-200-B-48.0 | QF50    | 1              | 2.00                   | 0.006     | 48           |



## ISO-QF/LF Metal Hose - Medium Wall

| PART #  | REFERENCE ID      | FLANGES | DRAWING FIGURE | NOMINAL TUBE I.D. (in) | WALL (in) | A O.A.L (in) |
|---------|-------------------|---------|----------------|------------------------|-----------|--------------|
| 0800036 | QF16-075-MH-10.0  | QF16    | 1              | 0.75                   | 0.008     | 10           |
| 0800037 | QF16-075-MH-12.0  | QF16    | 1              | 0.75                   | 0.008     | 12           |
| 0800038 | QF16-075-MH-18.0  | QF16    | 1              | 0.75                   | 0.008     | 18           |
| 0800039 | QF16-075-MH-20.0  | QF16    | 1              | 0.75                   | 0.008     | 20           |
| 0800040 | QF16-075-MH-24.0  | QF16    | 1              | 0.75                   | 0.008     | 24           |
| 0800041 | QF16-075-MH-36.0  | QF16    | 1              | 0.75                   | 0.008     | 36           |
| 0800042 | QF16-075-MH-40.0  | QF16    | 1              | 0.75                   | 0.008     | 40           |
| 0800043 | QF16-075-MH-48.0  | QF16    | 1              | 0.75                   | 0.008     | 48           |
| 0800045 | QF25-100-MH-10.0  | QF25    | 1              | 1.00                   | 0.008     | 10           |
| 0800046 | QF25-100-MH-12.0  | QF25    | 1              | 1.00                   | 0.008     | 12           |
| 0800047 | QF25-100-MH-18.0  | QF25    | 1              | 1.00                   | 0.008     | 18           |
| 0800048 | QF25-100-MH-20.0  | QF25    | 1              | 1.00                   | 0.008     | 20           |
| 0800049 | QF25-100-MH-24.0  | QF25    | 1              | 1.00                   | 0.008     | 24           |
| 0800050 | QF25-100-MH-36.0  | QF25    | 1              | 1.00                   | 0.008     | 36           |
| 0800051 | QF25-100-MH-40.0  | QF25    | 1              | 1.00                   | 0.008     | 40           |
| 0800052 | QF25-100-MH-48.0  | QF25    | 1              | 1.00                   | 0.008     | 48           |
| 0800053 | QF40-150-MH-10.0  | QF40    | 1              | 1.50                   | 0.010     | 10           |
| 0800054 | QF40-150-MH-12.0  | QF40    | 1              | 1.50                   | 0.010     | 12           |
| 0800055 | QF40-150-MH-18.0  | QF40    | 1              | 1.50                   | 0.010     | 18           |
| 0800056 | QF40-150-MH-20.0  | QF40    | 1              | 1.50                   | 0.010     | 20           |
| 0800057 | QF40-150-MH-24.0  | QF40    | 1              | 1.50                   | 0.010     | 24           |
| 0800058 | QF40-150-MH-36.0  | QF40    | 1              | 1.50                   | 0.010     | 36           |
| 0800059 | QF40-150-MH-40.0  | QF40    | 1              | 1.50                   | 0.010     | 40           |
| 0800060 | QF40-150-MH-48.0  | QF40    | 1              | 1.50                   | 0.010     | 48           |
| 0800061 | QF50-200-MH-10.0  | QF50    | 1              | 2.00                   | 0.012     | 10           |
| 0800062 | QF50-200-MH-12.0  | QF50    | 1              | 2.00                   | 0.012     | 12           |
| 0800063 | QF50-200-MH-18.0  | QF50    | 1              | 2.00                   | 0.012     | 18           |
| 0800064 | QF50-200-MH-20.0  | QF50    | 1              | 2.00                   | 0.012     | 20           |
| 0800065 | QF50-200-MH-24.0  | QF50    | 1              | 2.00                   | 0.012     | 24           |
| 0800066 | QF50-200-MH-36.0  | QF50    | 1              | 2.00                   | 0.012     | 36           |
| 0800067 | QF50-200-MH-40.0  | QF50    | 1              | 2.00                   | 0.012     | 40           |
| 0800068 | QF50-200-MH-48.0  | QF50    | 1              | 2.00                   | 0.012     | 48           |
| 0800080 | LF63-250-MH-12.0  | LF63    | 2              | 2.50                   | 0.012     | 12           |
| 8082034 | LF63-250-MH-18.0  | LF63    | 2              | 2.50                   | 0.012     | 18           |
| 0800240 | LF63-250-MH-24.0  | LF63    | 2              | 2.50                   | 0.012     | 24           |
| 0800310 | LF63-250-MH-36.0  | LF63    | 2              | 2.50                   | 0.012     | 36           |
| 8080208 | LF63-250-MH-48.0  | LF63    | 2              | 2.50                   | 0.012     | 48           |
| 8450781 | LF80-300-MH-12.0  | LF80    | 2              | 3.00                   | 0.016     | 12           |
| 0800327 | LF80-300-MH-18.0  | LF80    | 2              | 3.00                   | 0.016     | 18           |
| 0800316 | LF80-300-MH-24.0  | LF80    | 2              | 3.00                   | 0.016     | 24           |
| 8082035 | LF80-300-MH-36.0  | LF80    | 2              | 3.00                   | 0.016     | 36           |
| 0800308 | LF80-300-MH-48.0  | LF80    | 2              | 3.00                   | 0.016     | 48           |
| 8082033 | LF100-400-MH-12.0 | LF100   | 2              | 4.00                   | 0.016     | 12           |
| 8082027 | LF100-400-MH-18.0 | LF100   | 2              | 4.00                   | 0.016     | 18           |
| 0800307 | LF100-400-MH-24.0 | LF100   | 2              | 4.00                   | 0.016     | 24           |
| 0800315 | LF100-400-MH-36.0 | LF100   | 2              | 4.00                   | 0.016     | 36           |
| 0800249 | LF100-400-MH-48.0 | LF100   | 2              | 4.00                   | 0.016     | 48           |

### TECH TIP



Braided metal hose option provides protection for the medium wall metal hose from pressure, abrasion, impact and over-bending.



Fig 1

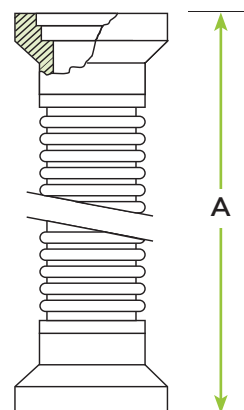
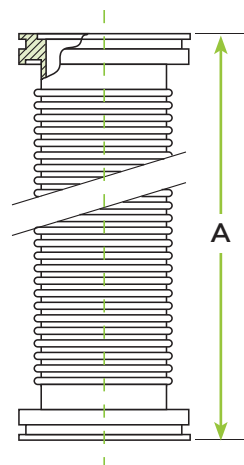


Fig 2



ISO Flexible Metal Hose



## CF Flexible Bellows - Thin Wall

### Materials:

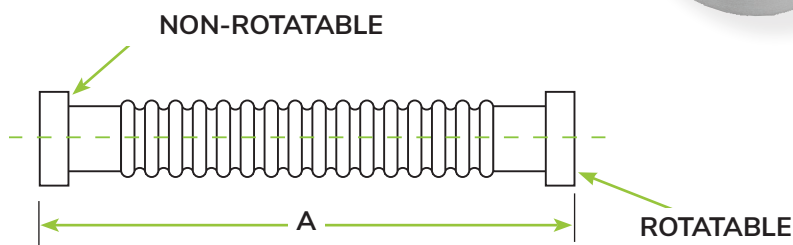
- Flanges: 304 stainless steel
- Formed flexible hose: 321 stainless steel

### Product Notes:

- Thin wall design provides maximum flexibility
- Corrects misaligned connections
- Provides vibration isolation

### Options: Call for price and delivery

- Custom lengths
- Custom flange combination



| PART #  | REFERENCE NUMBER | FLANGES | NOMINAL TUBE I.D. (in) | WALL (in) | A O.A.L (in) |
|---------|------------------|---------|------------------------|-----------|--------------|
| 0800111 | CF133-075-B-12.0 | CF133   | 0.75                   | 0.006     | 12           |
| 0800113 | CF133-075-B-18.0 | CF133   | 0.75                   | 0.006     | 18           |
| 0800115 | CF133-075-B-24.0 | CF133   | 0.75                   | 0.006     | 24           |
| 0800117 | CF133-075-B-36.0 | CF133   | 0.75                   | 0.006     | 36           |
| 0800239 | CF133-075-B-48.0 | CF133   | 0.75                   | 0.006     | 48           |
| 0800123 | CF212-100-B-12.0 | CF212   | 1.00                   | 0.006     | 12           |
| 0800125 | CF212-100-B-18.0 | CF212   | 1.00                   | 0.006     | 18           |
| 0800127 | CF212-100-B-24.0 | CF212   | 1.00                   | 0.006     | 24           |
| 0800129 | CF212-100-B-36.0 | CF212   | 1.00                   | 0.006     | 36           |
| 0800135 | CF275-150-B-12.0 | CF275   | 1.50                   | 0.006     | 12           |
| 0800137 | CF275-150-B-18.0 | CF275   | 1.50                   | 0.006     | 18           |
| 0800139 | CF275-150-B-24.0 | CF275   | 1.50                   | 0.006     | 24           |
| 0800141 | CF275-150-B-36.0 | CF275   | 1.50                   | 0.006     | 36           |
| 0800147 | CF338-200-B-12.0 | CF338   | 2.00                   | 0.006     | 12           |
| 0800149 | CF338-200-B-18.0 | CF338   | 2.00                   | 0.006     | 18           |
| 0800151 | CF338-200-B-24.0 | CF338   | 2.00                   | 0.006     | 24           |
| 0800153 | CF338-200-B-36.0 | CF338   | 2.00                   | 0.006     | 36           |
| 0800161 | CF450-250-B-18.0 | CF450   | 2.50                   | 0.006     | 18           |

## CF Flexible Metal Hose - Medium Wall

### Materials:

- Flanges: 304 stainless steel
- Formed Flexible Hose: 321 stainless steel

### Options: Call for price and delivery

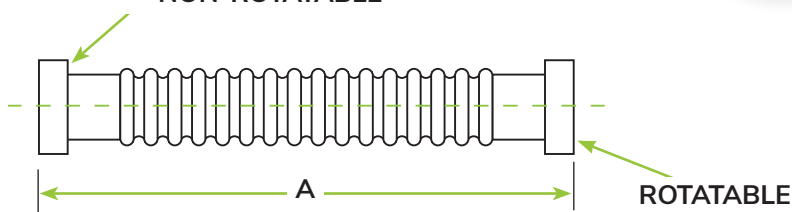
- Custom lengths
- Custom flange combination
- Braided metal hose

### Product Notes:

- Medium wall design for price economy
- Corrects misaligned connections
- Provides vibration isolation



NON-ROTATABLE



### TECH TIP



Braided metal hose option provides protection for the medium wall metal hose from pressure, abrasion, impact and over-bending.



| PART #  | REFERENCE ID      | FLANGES | NOMINAL TUBE I.D. (in) | WALL (in) | A O.A.L (in) |
|---------|-------------------|---------|------------------------|-----------|--------------|
| 0800241 | CF133-075-MH-12.0 | CF133   | 0.75                   | 0.008     | 12           |
| 0800238 | CF133-075-MH-18.0 | CF133   | 0.75                   | 0.008     | 18           |
| 0800324 | CF133-075-MH-24.0 | CF133   | 0.75                   | 0.008     | 24           |
| 8080372 | CF133-075-MH-36.0 | CF133   | 0.75                   | 0.008     | 36           |
| 0800242 | CF133-075-MH-48.0 | CF133   | 0.75                   | 0.008     | 48           |
| 0800237 | CF212-100-MH-12.0 | CF212   | 1.00                   | 0.008     | 12           |
| 0800230 | CF212-100-MH-48.0 | CF212   | 1.00                   | 0.008     | 48           |
| 0800312 | CF275-150-MH-12.0 | CF275   | 1.50                   | 0.010     | 12           |
| 0800313 | CF275-150-MH-18.0 | CF275   | 1.50                   | 0.010     | 18           |
| 0800309 | CF275-150-MH-24.0 | CF275   | 1.50                   | 0.010     | 24           |
| 0800314 | CF275-150-MH-36.0 | CF275   | 1.50                   | 0.010     | 36           |
| 0800318 | CF275-150-MH-48.0 | CF275   | 1.50                   | 0.010     | 48           |
| 0800244 | CF450-250-MH-12.0 | CF450   | 2.50                   | 0.012     | 12           |
| 0800243 | CF450-250-MH-18.0 | CF450   | 2.50                   | 0.012     | 18           |
| 0800245 | CF450-250-MH-24.0 | CF450   | 2.50                   | 0.012     | 24           |
| 0800233 | CF462-300-MH-12.0 | CF462   | 3.00                   | 0.016     | 12           |
| 0800232 | CF462-300-MH-18.0 | CF462   | 3.00                   | 0.016     | 18           |
| 0800234 | CF600-400-MH-12.0 | CF600   | 4.00                   | 0.016     | 12           |
| 0800215 | CF600-400-MH-18.0 | CF600   | 4.00                   | 0.016     | 18           |
| 0800216 | CF600-400-MH-24.0 | CF600   | 4.00                   | 0.016     | 24           |
| 0800403 | CF600-400-MH-36.0 | CF600   | 4.00                   | 0.016     | 36           |
| 0800404 | CF600-400-MH-48.0 | CF600   | 4.00                   | 0.016     | 48           |

## Weldable End Flexible Bellows - Thin Wall

### Materials:

- Weldable tube ends: 304 stainless steel
- Formed flexible hose: 321 stainless steel

### Product Notes:

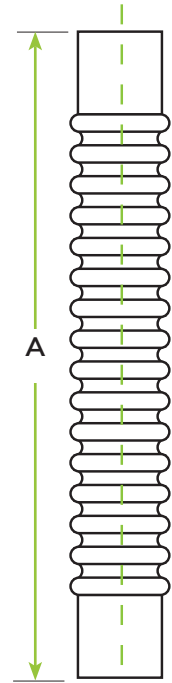
- Thin wall design provides maximum flexibility
- Corrects misaligned connections
- Provides vibration isolation

### Options: Call for price and delivery

- Custom lengths
- Custom flange combination



| PART #  | REFERENCE ID  | NOMINAL TUBE I.D. (in) | WALL (in) | A O.A.L (in) |
|---------|---------------|------------------------|-----------|--------------|
| 0802000 | TE-075-B-12.0 | 0.75                   | 0.006     | 12           |
| 0802001 | TE-075-B-18.0 | 0.75                   | 0.006     | 18           |
| 0802002 | TE-075-B-24.0 | 0.75                   | 0.006     | 24           |
| 0802003 | TE-075-B-36.0 | 0.75                   | 0.006     | 36           |
| 0802004 | TE-075-B-48.0 | 0.75                   | 0.006     | 48           |
| 0802005 | TE-100-B-11.5 | 1.00                   | 0.006     | 12           |
| 0802006 | TE-100-B-18.0 | 1.00                   | 0.006     | 18           |
| 0802007 | TE-100-B-24.0 | 1.00                   | 0.006     | 24           |
| 0802008 | TE-100-B-36.0 | 1.00                   | 0.006     | 36           |
| 0802009 | TE-100-B-48.0 | 1.00                   | 0.006     | 48           |
| 0802012 | TE-150-B-24.0 | 1.50                   | 0.006     | 24           |
| 0802013 | TE-150-B-36.0 | 1.50                   | 0.006     | 36           |
| 0802014 | TE-150-B-48.0 | 1.50                   | 0.006     | 48           |
| 0802015 | TE-200-B-12.0 | 2.00                   | 0.006     | 12           |
| 0802016 | TE-200-B-18.0 | 2.00                   | 0.006     | 18           |
| 0802017 | TE-200-B-24.0 | 2.00                   | 0.006     | 24           |
| 0802018 | TE-200-B-36.0 | 2.00                   | 0.006     | 36           |
| 0802019 | TE-200-B-48.0 | 2.00                   | 0.006     | 48           |





## Weldable End Flexible Metal Hose - Medium Wall

### Materials:

- Weldable Tube Ends: 304 stainless steel
- Formed Flexible Hose: 321 stainless steel

### Product Notes:

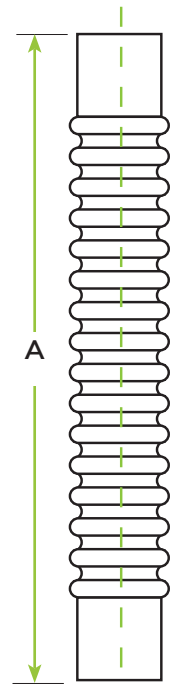
- Medium wall design for price economy
- Corrects misaligned connections
- Provides vibration isolation

### Options: Call for price and delivery

- Custom Lengths
- Custom Flange Combination
- Braided Metal Hose



| PART #  | REFERENCE ID   | NOMINAL TUBE I.D. (in) | WALL (in) | A O.A.L (in) |
|---------|----------------|------------------------|-----------|--------------|
| 0801072 | TE-075-MH-12.0 | 0.75                   | 0.008     | 12           |
| 8088013 | TE-075-MH-18.0 | 0.75                   | 0.008     | 18           |
| 0800501 | TE-075-MH-24.0 | 0.75                   | 0.008     | 24           |
| 8080365 | TE-075-MH-36.0 | 0.75                   | 0.008     | 36           |
| 0800503 | TE-075-MH-48.0 | 0.75                   | 0.008     | 48           |
| 0800505 | TE-100-MH-12.0 | 1.00                   | 0.008     | 12           |
| 8081072 | TE-100-MH-18.0 | 1.00                   | 0.009     | 18           |
| 0801104 | TE-100-MH-24.0 | 1.00                   | 0.009     | 24           |
| 8081074 | TE-100-MH-36.0 | 1.00                   | 0.009     | 36           |
| 0800509 | TE-150-MH-12.0 | 1.50                   | 0.010     | 12           |
| 0800510 | TE-150-MH-18.0 | 1.50                   | 0.010     | 18           |
| 0800511 | TE-150-MH-24.0 | 1.50                   | 0.010     | 24           |
| 0800512 | TE-150-MH-36.0 | 1.50                   | 0.010     | 36           |
| 0801074 | TE-150-MH-48.0 | 1.50                   | 0.010     | 48           |
| 0801050 | TE-250-MH-12.0 | 2.50                   | 0.012     | 12           |
| 0801111 | TE-250-MH-18.0 | 2.50                   | 0.012     | 18           |
| 0801109 | TE-250-MH-24.0 | 2.50                   | 0.012     | 24           |
| 0801113 | TE-250-MH-36.0 | 2.50                   | 0.012     | 36           |
| 0801096 | TE-250-MH-48.0 | 2.50                   | 0.012     | 48           |
| 0801087 | TE-300-MH-12.0 | 3.00                   | 0.016     | 12           |
| 0801115 | TE-300-MH-18.0 | 3.00                   | 0.016     | 18           |
| 0801116 | TE-300-MH-24.0 | 3.00                   | 0.016     | 24           |
| 0801084 | TE-300-MH-36.0 | 3.00                   | 0.016     | 36           |
| 0801117 | TE-300-MH-48.0 | 3.00                   | 0.016     | 48           |
| 8083062 | TE-400-MH-12.0 | 4.00                   | 0.016     | 12           |
| 0801095 | TE-400-MH-18.0 | 4.00                   | 0.016     | 18           |
| 0801119 | TE-400-MH-24.0 | 4.00                   | 0.016     | 24           |
| 0801120 | TE-400-MH-36.0 | 4.00                   | 0.016     | 36           |
| 8080268 | TE-400-MH-48.0 | 4.00                   | 0.016     | 48           |



### TECH TIP

Braided metal hose option provides protection for the medium wall metal hose from pressure, abrasion, impact and over-bending.



## QF Flexible PVC Hose

### Materials:

- PVC hose: clear, wire reinforced
- Flanges: 304 stainless steel
- Temperature range: min. 23° F, max. 150° F

### Product Notes:

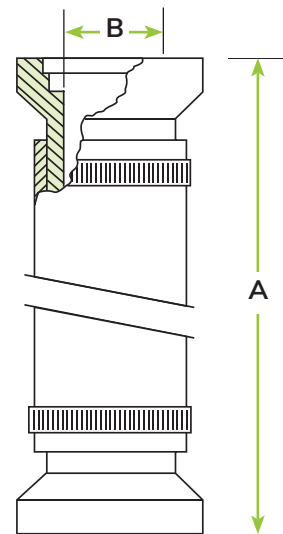
- Hose clamp fastens flange to PVC hose
- Ready to use: helium leak checked
- Good for exhaust lines

### Options: Call for price and delivery

- Custom lengths



| PART #  | REFERENCE ID       | A (in) | B (in) | MAX. PSI |
|---------|--------------------|--------|--------|----------|
| 4000394 | QF10-050-PVC-20.0  | 20     | 0.50   | 130      |
| 4000395 | QF10-050-PVC-40.0  | 40     | 0.50   | 130      |
| 4000396 | QF16-050-PVC-20.0  | 20     | 0.50   | 130      |
| 4000397 | QF16-050-PVC-40.0  | 40     | 0.50   | 130      |
| 4000398 | QF16-075-PVC-20.0  | 20     | 0.75   | 100      |
| 4000399 | QF16-075-PVC-40.0  | 40     | 0.75   | 100      |
| 4000400 | QF25-100-PVC-20.0  | 20     | 1.00   | 70       |
| 4000401 | QF25-100-PVC-40.0  | 40     | 1.00   | 70       |
| 4000402 | QF40-150-PVC-20.0  | 20     | 1.50   | 50       |
| 4000403 | QF40-150-PVC-40.0  | 40     | 1.50   | 50       |
| 4000404 | QF50-200-PVC-20.0  | 20     | 2.00   | 50       |
| 4000405 | QF50-200-PVC-40.0  | 40     | 2.00   | 50       |
| 4000548 | QF50-200-PVC-120.0 | 120    | 2.00   | 50       |



## Wire Reinforced Flexible PVC Hose

### Materials:

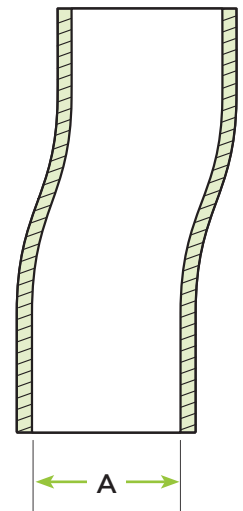
- Spiral steel wire reinforced PVC tubing
- Made from FDA approved ingredients
- Kink and crush resistant
- Handles pressure and full vacuum (29.9 inHg) applications
- Clear, smooth surfaces provide outstanding visual flow characteristics
- Lightweight, tough, corrosion and abrasion resistant
- Temperature range: min. 23° F, max. 150° F
- Length is cut to order

### Product Notes:

Used to transport various chemicals in areas with tight turns and sharp bends. Its bend radius is approximately four times the I.D.

Excellent for exhaust lines, Chemical Transfer, Conduit, Coolant Lines, Environmental Suit Air Feed, Floor Cleaning Equipment, Food & Beverage Lines, Material Handling, Shop Air Supply, Spray Systems, Vacuum Lines, Water Feeds and more.

| PART #  | REFERENCE ID | HOSE CLAMP PART NUMBER | A (in) | OD (in) | WALL  | WORKING PSI (@ 70°F) |
|---------|--------------|------------------------|--------|---------|-------|----------------------|
| 0701245 | 025-PVC      | 025-HC                 | 0.25   | .453    | 0.102 | 140                  |
| 0701250 | 050-PVC      | 050-HC                 | 0.50   | .748    | 0.124 | 140                  |
| 0701255 | 075-PVC      | 075-HC                 | 0.75   | 1.024   | 0.137 | 100                  |
| 0701260 | 100-PVC      | 100-HC                 | 1.00   | 1.319   | 0.160 | 85                   |
| 0701265 | 150-PVC      | 150-HC                 | 1.50   | 1.909   | 0.205 | 85                   |
| 0701270 | 200-PVC      | 200-HC                 | 2.00   | 2.382   | 0.191 | 70                   |



## Hose Adapter to QF - Aluminum

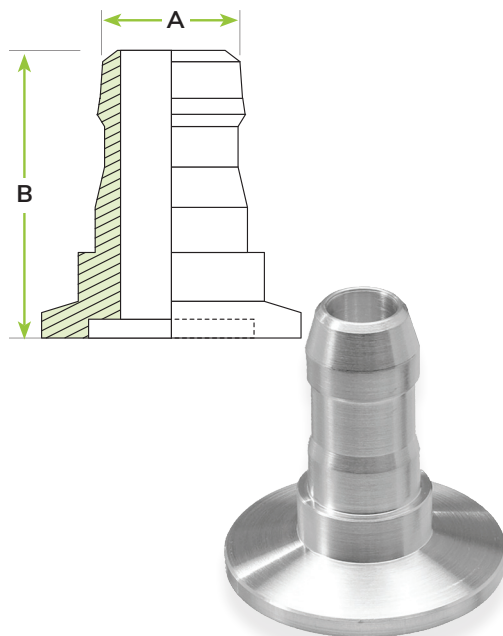
### Materials:

- 2011 aluminum

### Product Notes:

- Adapts from rubber or PVC vacuum hose to ISO-QF flanges
- Each kits adapts two sizes

| PART #  | REFERENCE ID   | HOSE I.D. (in) | A (in) | B (in) |
|---------|----------------|----------------|--------|--------|
| 4000256 | QF10-50/63-H   | 0.50 or 0.63   | 0.63   | 1.63   |
| 4000257 | QF16-50/63-H   | 0.50 or 0.63   | 0.63   | 1.63   |
| 4000258 | QF16-63/75-H   | 0.63 or 0.75   | 0.75   | 1.63   |
| 4000259 | QF25-50/63-H   | 0.50 or 0.63   | 0.63   | 1.63   |
| 4000261 | QF25-75/88-H   | 0.75 or 0.88   | 0.88   | 1.73   |
| 4000262 | QF40-150/163-H | 1.50 or 1.63   | 1.63   | 2.17   |
| 4000263 | QF50-150/163-H | 1.50 or 1.63   | 1.63   | 2.17   |



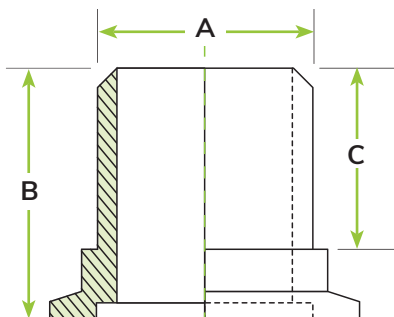
## Hose Adapter to QF - Stainless Steel

### Materials:

- 304 stainless steel

### Product Notes:

- Adapts from rubber or PVC vacuum hose to ISO-QF flanges



| PART #  | REFERENCE ID | HOSE I.D. (in) | A (in) | B (in) | C (in) |
|---------|--------------|----------------|--------|--------|--------|
| 4000264 | QF10-050-SH  | 0.50           | 0.50   | 1.26   | 0.79   |
| 4000265 | QF16-050-SH  | 0.50           | 0.50   | 1.26   | 0.79   |
| 4000266 | QF16-075-SH  | 0.75           | 0.75   | 1.26   | 0.79   |
| 4000267 | QF25-100-SH  | 1.00           | 1.00   | 1.50   | 1.02   |
| 4000268 | QF40-150-SH  | 1.50           | 1.50   | 1.97   | 1.50   |
| 4000269 | QF50-200-SH  | 2.00           | 2.00   | 2.17   | 1.61   |



## Hose Clamps

| PART #  | REFERENCE ID | DESCRIPTION                         |
|---------|--------------|-------------------------------------|
| 4000520 | 050-HC       | PVC Hose Clamp for 1/2 in. tubing   |
| 4000521 | 075-HC       | PVC Hose Clamp for 3/4 in. tubing   |
| 4000522 | 100-HC       | PVC Hose Clamp for 1 in. tubing     |
| 4000523 | 150-HC       | PVC Hose Clamp for 1 1/2 in. tubing |
| 4000524 | 200-HC       | PVC Hose Clamp for 2 in. tubing     |

