



## OUR COMMITMENT ***OVER 30 YEARS OF MANUFACTURING***

Easyflex, Inc. is a leading manufacturer and distributor of corrugated stainless steel tubing products. Our specialization over the years of flexible corrugated stainless steel products has made job completion easier and faster which is also cost-effective for all end users. Combining the strength of stainless steel with flexibility of corrugation are the top reasons why its popularity has increased in recent years with its customers around the world. Our product line is an excellent choice for new construction or renovation projects.

Easyflex's warehouse is located in Denton, TX which also acts as our on-site distribution center where we fully stock and ship products to our customers. For decades, Easyflex has been producing superior products and serving more than 50 countries throughout the world. Innovation, detail orientation, quality control, and determination are core values that have delivered superior results. Our company philosophy is the backbone and the engine that has made us where we are today. We emphasize in manufacturing high quality products and understand the importance of affordability to our customers. Easyflex believes in producing top notch products for our first class customers and find ways to save them money.

Flexible lines are rapidly replacing rigid pipes in new construction because of its flexibility and cost saving installation. They are widely used to retrofit in tenant improvement projects. The greatest advantage of using flexline in place of rigid piping is incredible time saving benefits in installation. Rather cutting the tube to exact length and making 90 degree connections every time you need a bend, flexlines offer the ease of simply bending the tubing—without any extra connections—for a hassle-free installation of one seamless line.

Our ultimate goal is to connect the world with Easyflex products and to demonstrate a safer, simpler, and easier way to get the job done.

# Why

## *Should You Choose Easyflex?*

### **It's Easy.**

Imagine installing an entire gas or water line system with just one connection at each end! No more mid-line connections, cuts, angles, and bulky fittings, just one clean line that gives you the freedom to make bends by hand wherever and whenever you need them.

### **It's Fast.**

It is perhaps the greatest advantage of using Easyflex flexible CSST. By eliminating all the countless steps of measuring and cutting to account for those rigid 90 degree angles, you save valuable time on installation.

### **It's Durable.**

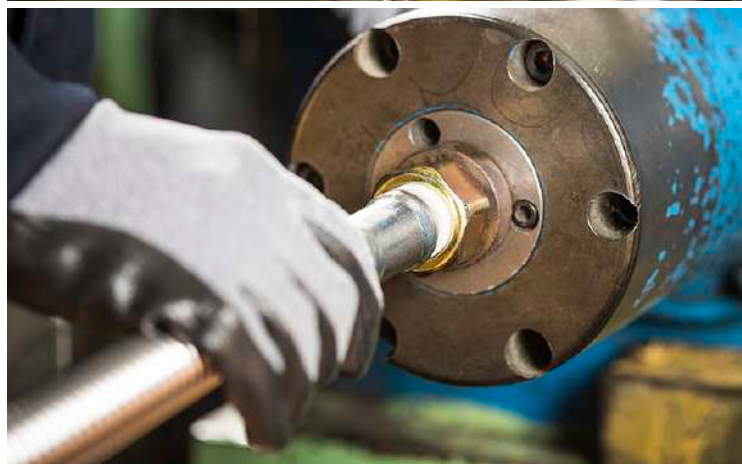
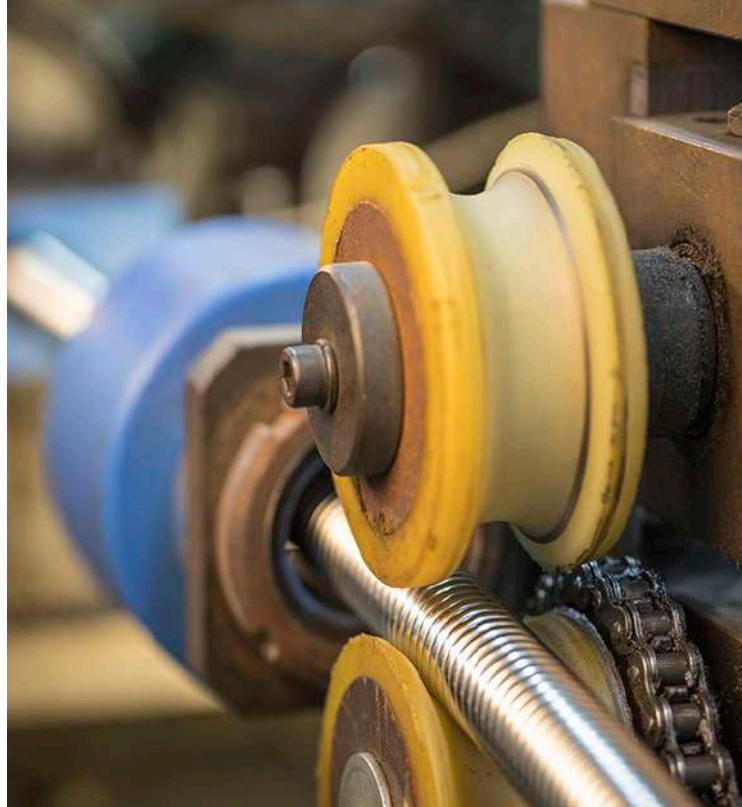
Stainless steel 304 is strong, corrosion-resistant, and withstands natural wear and tear better over time than rigid piping alternatives. When it comes to the longevity of the material, there's no comparison to stainless steel.

### **It's Flexible.**

Annular corrugations of the tubing create flexibility by working with the strength of stainless steel.

### **It's Lightweight.**

Tubing, ranging from 50 ft. in length to 150 ft., is efficiently coiled into a single roll that you can easily carry over your shoulder. You only need one trip from your car to the job site.



# ORDERING INFORMATION

## Our Locations



### Central Office

1500 N. Western Blvd. Suite #280  
Denton, TX 76207



### West Coast Office

2700 N. Main St. Suite #800  
Santa Ana, CA 92705

 **Toll Free** (888) 577-8999

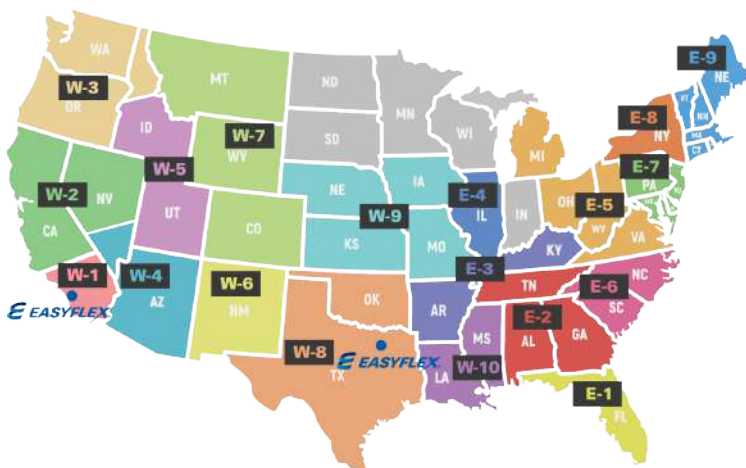
**Tel:** (714) 897-2200

**Email:** [info@easyflexusa.com](mailto:info@easyflexusa.com)

**Fax:** (714) 892-2221

**Submit Order:** [order@easyflexusa.com](mailto:order@easyflexusa.com)

## **SALES REPRESENTATION**



|                                                       |                                                          |
|-------------------------------------------------------|----------------------------------------------------------|
| <b>W-1</b> S. CA<br>O' Connor Sales, Inc.             | <b>E-1</b> FL<br>Maco Southeast, Inc.                    |
| <b>W-2</b> CA / NV<br>Elmco + Associates              | <b>E-2</b> AL / GA / TN<br>Odum Sales                    |
| <b>W-3</b> WA / OR<br>Norpac, Inc.                    | <b>E-3</b> KY / AR<br>Kemper Sales & Associates          |
| <b>W-4</b> AZ<br>DW Sales Reps                        | <b>E-4</b> IL<br>HOK Sales                               |
| <b>W-5</b> UT / ID<br>G & S Sales, Inc.               | <b>E-5</b> MI / OH / WV / VA<br>Moxie Market Sales, Inc. |
| <b>W-6</b> NM<br>Pinnacle Marketing, Inc.             | <b>E-6</b> SC / NC<br>Richardson Sales Inc.              |
| <b>W-7</b> CO / WY / MT<br>Dalcart & Associates, Inc. | <b>E-7</b> PA / MD / DE / NJ<br>East Coast Marketing     |
| <b>W-8</b> TX / OK<br>Tipton Company                  | <b>E-8</b> NY<br>Rothenberg Associates                   |
| <b>W-9</b> KS / MO / NE / IA<br>Prism Sales, Inc.     | <b>E-9</b> NE<br>KSM Enterprise                          |
| <b>W-10</b> LA / MS<br>Superior Products Inc.<br>BBWC |                                                          |

# CONTENTS



- 05 ..... **Gastop** *Gas Connectors*  
EFV • Gas Connectors • Gas Fittings • Gas Valves

Gas  
Connectors



- 57 ..... *Commercial Gas Connectors*  
Food Service Gas Connectors • Countertop Gas Connectors • Stationary Gas Connectors

Commercial  
Gas  
Connectors



- 71 ..... **vectorFLEX** *Gas Line System*  
VectorFlex™ Gas CSST Tubing • Accessories • Manifold

Gas  
Line System



- 85 ..... **QuickFLARE** *Gas CSST Fittings*  
QuickFlare™ Brass Fittings • Full Port Ball Valves

Gas  
CSST Fittings



- 91 ..... **vectorFLOW** *Water Line System*  
VectorFlow™ Water CSST Tubing • Accessories • Manifold

Water  
Line System



- 99 ..... **QuickSNAP** *Water CSST Fittings*  
QuickSnap™ Lead-Free Brass Fittings/Brass Fittings • Full Port Ball Valves

Water  
CSST Fittings



- 107 ..... **Safeflow** *Braided Water Connectors*  
Braided Water Connectors • Safeflow Braided Water Connectors

Braided  
Water  
Connectors



- 121 ..... *Supply Stop Valves*  
1/4-Turn Ball Valves

Supply stop  
Valve



- 127 ..... *Water Heater Connectors*  
Water Heater Connectors • Copper Water Heater Connectors

Water  
Heater  
Connectors



- 137 ..... **SOFT-TURN** *Isolation Valves*  
Isolation Valve Kit • Lead-Free Isolation Valve Kit

Isolation  
Valves



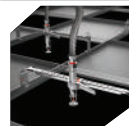
- 147 ..... **ONE TANK** *Thermal Expansion Tanks*

Thermal  
Expansion  
Tanks



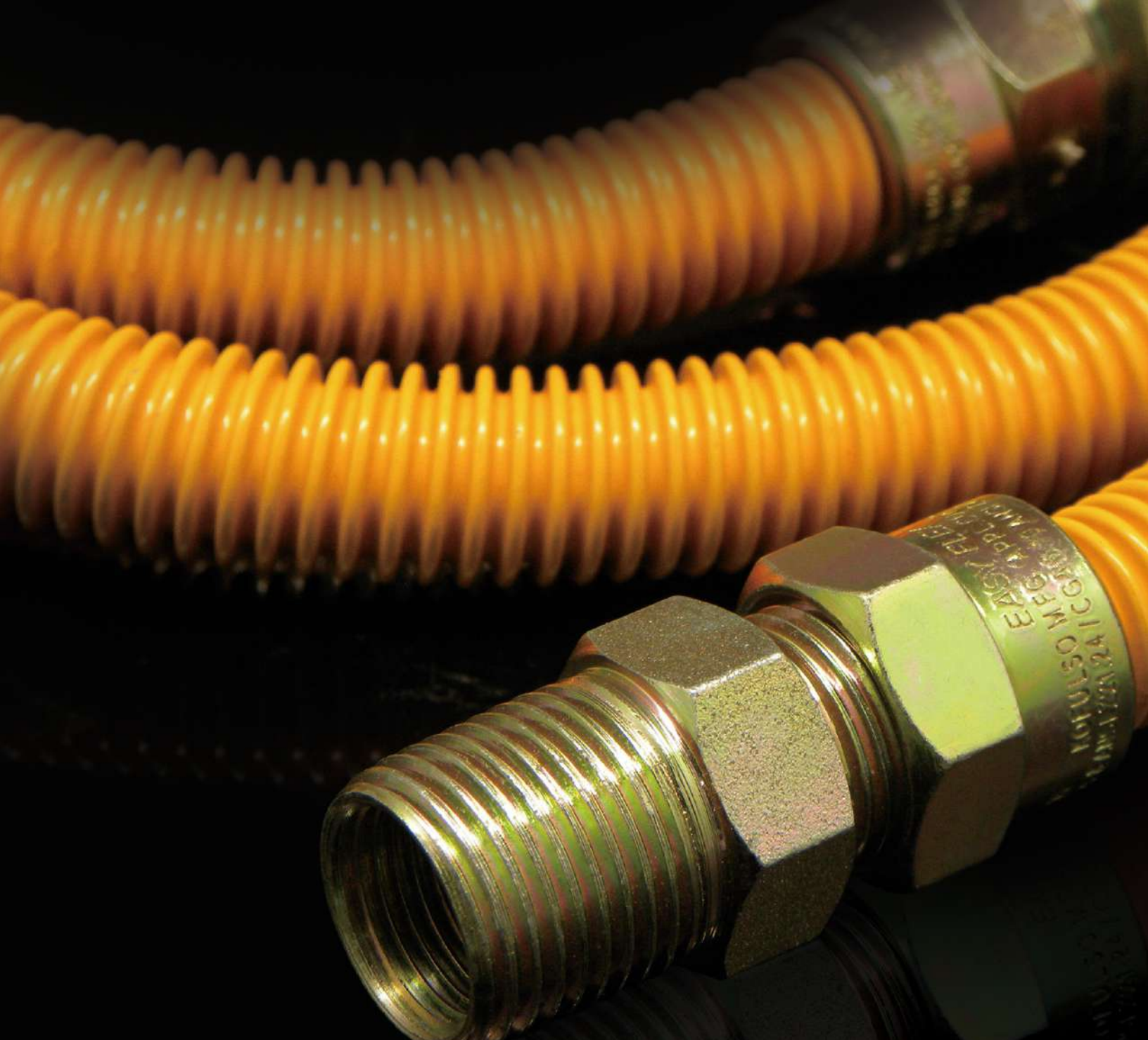
- 151 ..... *No-Hub Couplings*

No-Hub  
Couplings



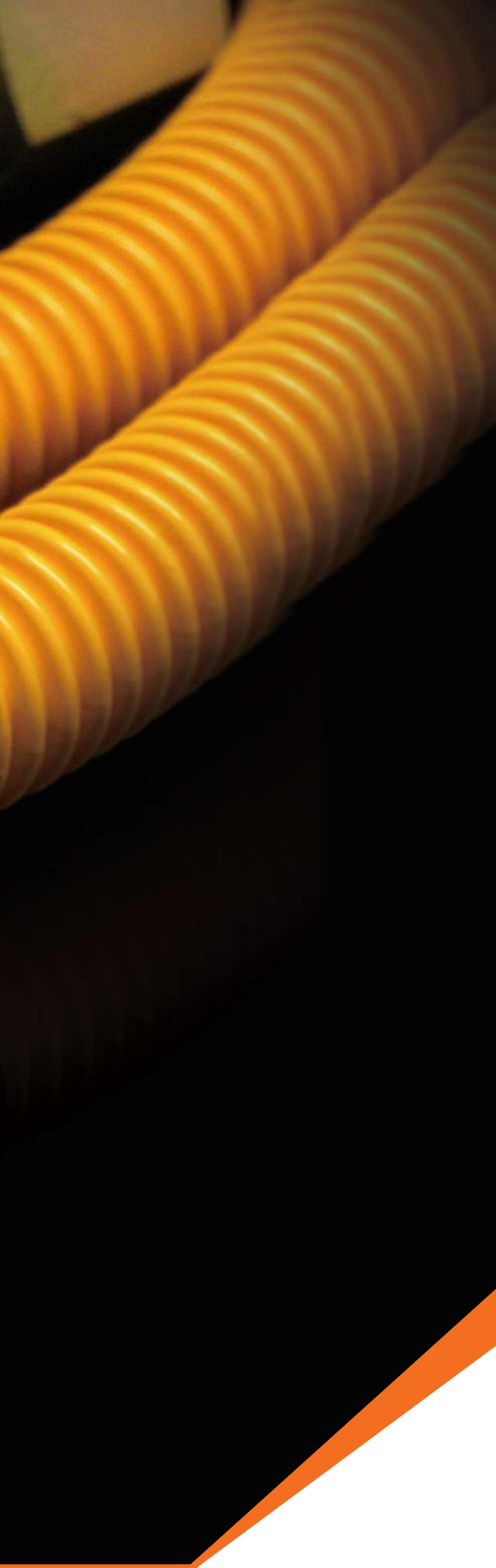
- 157 ..... *Flexible Sprinkler Drops*

Flexible  
Sprinkler  
Drops



## ***Stainless Steel Flexible Gas Connectors***

Complete selection of flexible connectors for gas appliance applications.



# Stainless Steel Flexible Gas Connectors

## Applications

Dryers / Boilers / Fireplace / Space Heaters /  
Manufactured Homes / Tankless Water Heaters /  
Rooftop Units / Ranges / Ovens / BBQ Grills / Furnaces

## Benefits

- Flexible to Reduce Labor Costs
- Interchangeable Fittings for Any Application
- Corrosion & Scaling Resistant
- Withstand 15 Applications of 90° Twists

## Certifications & Approvals

- ANSI Z 21.24 / CSA 6.10 Gas Appliances
- ANSI Z 21.75 / CSA 6.27 Outdoor Gas Appliances & Manufactured Homes
- Commonwealth of Massachusetts Board of State Examiners
- City of New York-MEA #376-92-M



## Materials

|         |                                |
|---------|--------------------------------|
| Tubing  | Stainless Steel 304(ASTM A240) |
| Coating | Epoxy                          |
| Fitting | Zinc-Plated Steel S45C         |

## Pressure-Temperature

|                             |                                |
|-----------------------------|--------------------------------|
| Rated Operating Temperature | -40°F to 150°F (-40°C to 65°C) |
| Rated Pressure              | 0.5 psi                        |

Gas Connectors

Commercial Gas Connectors

Gas Line System

Gas CSST Fittings

Water Line System

Water CSST Fittings

Braided Water Connectors

Supply stop Valve

Water Heater Connectors

Isolation Valves

Thermal Expansion Tanks

No-Hub Couplings

Flexible Sprinkler Drops

# Stainless Steel Flexible **Gas Connectors**

## Product Testing

|                                     |                                                                                             |
|-------------------------------------|---------------------------------------------------------------------------------------------|
| Strength Test                       | Withstands an internal hydrostatic pressure of 250 psi (17MPa) without bursting or leaking. |
| Bending Test                        | Withstands 30 bends without leaking in depths of 2 inches or less of water.                 |
| Torsion Test                        | Withstands 15 applications of 90° twists.                                                   |
| Durability at High Temperature Test | Withstands up to 800°F.                                                                     |
| Strength of Fittings                | Does not leak within a tightened torque of 1,040 inch-pounds.                               |

## CERTIFICATIONS, APPROVALS, LISTINGS and COMPLIANCE

### United States | CSA USA Standards Association

- ANSI Z 21.24 Connectors for Gas Appliances
- ANSI Z 21.75 Connectors for Outdoor Appliances and Manufactured Homes

### Canada | CSA Canadian Standards Association

- CSA 6.10 Connectors for Gas Appliances
- CSA 6.27 Connectors for Outdoor Appliances and Manufactured
- Meets the requirements of CSA B149.1 National Gas and Propane Installation Code



## Connector Minimum Flow Capacity

Straight Length Capacity (BTU/Hr., 0.64 Sp Gr., 1,000 BTU per cubic ft. at 0.5 inch W.C. pressure drop)

| Series | Nominal OD | Nominal ID | 12"     | 18"     | 24"     | 30"     | 36"     | 48"     | 60"     | 72"     |
|--------|------------|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 014    | 3/8"       | 1/4"       | 48,000  | 43,800  | 40,000  | 36,400  | 33,400  | 28,300  | 24,900  | 23,100  |
| 038    | 1/2"       | 3/8"       | 102,000 | 93,100  | 85,000  | 77,100  | 71,100  | 60,500  | 53,200  | 49,100  |
| 012    | 5/8"       | 1/2"       | 180,000 | 164,200 | 150,000 | 136,000 | 125,000 | 106,000 | 93,200  | 86,000  |
| 034    | 1"         | 3/4"       | 290,900 | 290,900 | 290,900 | 270,500 | 255,900 | 215,000 | 197,400 | 173,900 |

The above flow capacities are the minimum performance requirement per ANSI Z21.24 CSA 6.10 & ANSI Z21.75-CSA 6.27. Easyflex Gas Connectors exceed these minimum flow capacity requirements.

# Stainless Steel Flexible **Gas Connectors**



## Certificate of Compliance

Certificate: 1992377

Master Contract: 238420

Project: 1992377

Date Issued: 2008/02/19

Issued to: Kofulso Co., Ltd.

377-8 Gungok-Dong, Seo-Gu  
Inchon City,  
South Korea

*The products listed below are eligible to bear the CSA Mark shown  
with adjacent indicators 'C' and 'US'*



Issued by: Russell Dworznik

Authorized by: Trevor Perera, Manager of  
Certification Services

*Trevor Perera*

### PRODUCTS

- CLASS 3303 86** - CONNECTORS (GAS) - Gas Appliances and - Manufactured  
Homes-Certified to US Standards
- CLASS 3303 06** - CONNECTORS (GAS) - Outdoor Gas Appliances - and Manufactured  
Homes
- CLASS 3303 85** - CONNECTORS (GAS) - For Moveable Appliances-Certified to U.S.  
Standards
- CLASS 3303 05** - CONNECTORS (GAS) - For Moveable Appliances
- CLASS 3303 81** - CONNECTORS (GAS) - Connectors For Gas Appliances-Certified to U.S.  
Standards
- CLASS 3303 01** - CONNECTORS (GAS) - Connectors For Gas Appliances

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.

Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Stub  
Couplings

Flexible  
Sprinkler  
Drops

# *Stainless Steel Flexible **Gas** Connectors*

Combining flexibility, durability, and functionality, Easyflex gas appliance connectors are CSA design certified and 100% leak tested for the quality and security you demand. Available in safe-guard epoxy coating in yellow, black, or uncoated stainless steel with the largest variety of fittings, we have the gas connectors that will meet your needs.



## **Easyflex Stainless Steel Gas Appliance Connectors**

Easyflex gas connectors offer a full spectrum of products to fit your needs—whatever they may be. Corrosion resistant stainless steel 304 tubing and zinc-plated steel fittings are made with quality materials you can trust.



## **Easyflex Yellow Coated Gas Appliance Connectors**

Easyflex Yellow Coated gas connectors offer the same wide variety of products with safe-guard yellow epoxy coating for added durability. It provides extra protection from corrosion, chemical stains from common household products, and during plumbing repairs. Corrosion resistant stainless steel 304 tubing and zinc-plated steel fittings are made with quality materials you can trust.



## **Easyflex Black Coated Gas Appliance Connectors**

For gas hearth installations, Easyflex Black Coated gas connectors with safe-guard black epoxy coating are durable and corrosion resistant. Safe-guard protects better against common wear and tear, including chemical stains from common household products and during plumbing repairs.

With the additional benefit of the discreet black coating for minimal visibility, gas connectors are the ideal product for fireplaces, BBQ grills, and radiant heaters. Corrosion resistant stainless steel 304 tubing and zinc-plated steel fittings are made with quality materials you can trust.



# Stainless Steel Flexible **Gas Connectors**

## Parts Numbering System

EFGC - 012 - SS - 1010 - 12

TUBE ID COATING FITTINGS LENGTH

### TUBE ID

| Part# | Size (ID)         | Thread    |
|-------|-------------------|-----------|
| 014   | 1/4" ID (3/8" OD) | 5/8"-18   |
| 038   | 3/8" ID (1/2" OD) | 3/4"-16   |
| 012   | 1/2" ID (5/8" OD) | 15/16"-16 |
| 034   | 3/4" ID (1" OD)   | 1-1/8"-16 |

### COATING

| Part# |                                         |
|-------|-----------------------------------------|
| SS    | Uncoated Stainless Steel 304            |
| YE    | Yellow Epoxy Coated Stainless Steel 304 |
| BE    | Black Epoxy Coated Stainless Steel 304  |

### ADAPTERS/ VALVES

| Part# | Size (ID)                  |
|-------|----------------------------|
| 10    | 1/2" MIP (Tapped 3/8" FIP) |
| 11    | 1/2" FIP                   |
| 12    | 3/8" MIP (Tapped 1/4" FIP) |
| 13    | 3/8" FIP                   |
| 14    | 3/4" MIP (Tapped 1/2" FIP) |
| 15    | 3/4" FIP                   |
| 16    | 1" MIP (Tapped 3/4" FIP)   |
| 17    | 1" FIP                     |
| 31    | 1/2" FIP Ball Valve        |
| 33    | 3/4" FIP Ball Valve        |
| 41    | 1/2" FIP Angle Valve       |
| 43    | 3/4" FIP Angle Valve       |

### LENGTH

| Part# |
|-------|
| 12"   |
| 18"   |
| 24"   |
| 30"   |
| 36"   |
| 48"   |
| 60"   |
| 72"   |

Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

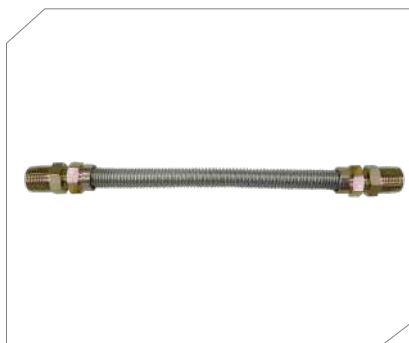
No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

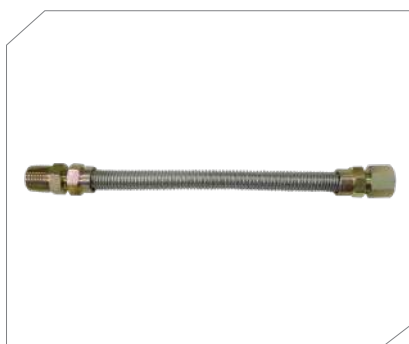
# Stainless Steel Flexible *Gas* Connectors

## 014-SS Series Connector with Fittings

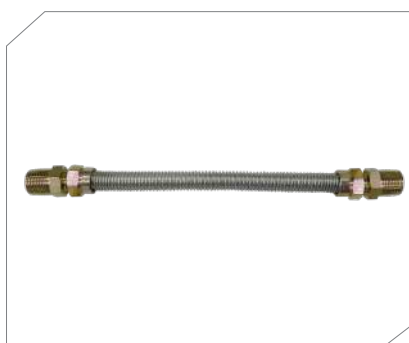
- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



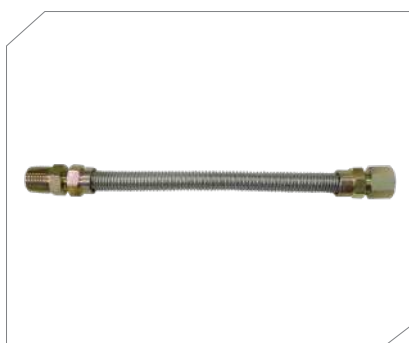
| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-SS-1010-12 | 1/2" MIP x 1/2" MIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1010-18 | 1/2" MIP x 1/2" MIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1010-24 | 1/2" MIP x 1/2" MIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1010-30 | 1/2" MIP x 1/2" MIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1010-36 | 1/2" MIP x 1/2" MIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1010-48 | 1/2" MIP x 1/2" MIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1010-60 | 1/2" MIP x 1/2" MIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-SS-1010-72 | 1/2" MIP x 1/2" MIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-SS-1011-12 | 1/2" MIP x 1/2" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1011-18 | 1/2" MIP x 1/2" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1011-24 | 1/2" MIP x 1/2" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1011-30 | 1/2" MIP x 1/2" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1011-36 | 1/2" MIP x 1/2" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1011-48 | 1/2" MIP x 1/2" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1011-60 | 1/2" MIP x 1/2" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-SS-1011-72 | 1/2" MIP x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-SS-1012-12 | 1/2" MIP x 3/8" MIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1012-18 | 1/2" MIP x 3/8" MIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1012-24 | 1/2" MIP x 3/8" MIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1012-30 | 1/2" MIP x 3/8" MIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1012-36 | 1/2" MIP x 3/8" MIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1012-48 | 1/2" MIP x 3/8" MIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1012-60 | 1/2" MIP x 3/8" MIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-SS-1012-72 | 1/2" MIP x 3/8" MIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-SS-1013-12 | 1/2" MIP x 3/8" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1013-18 | 1/2" MIP x 3/8" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1013-24 | 1/2" MIP x 3/8" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1013-30 | 1/2" MIP x 3/8" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1013-36 | 1/2" MIP x 3/8" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1013-48 | 1/2" MIP x 3/8" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1013-60 | 1/2" MIP x 3/8" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-SS-1013-72 | 1/2" MIP x 3/8" FIP, 72" | EA  |       | 12       |

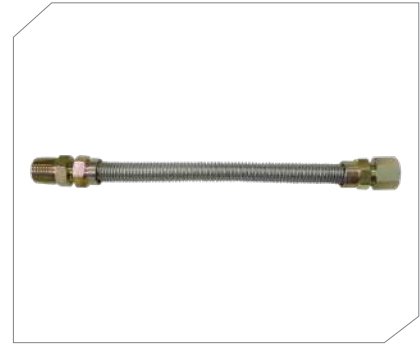
# Stainless Steel Flexible **Gas** Connectors

## 014-SS Series Connector with Fittings

- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-SS-1213-12 | 3/8" MIP x 3/8" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1213-18 | 3/8" MIP x 3/8" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1213-24 | 3/8" MIP x 3/8" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1213-30 | 3/8" MIP x 3/8" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1213-36 | 3/8" MIP x 3/8" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1213-48 | 3/8" MIP x 3/8" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1213-60 | 3/8" MIP x 3/8" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-SS-1213-72 | 3/8" MIP x 3/8" FIP, 72" | EA  |       | 12       |

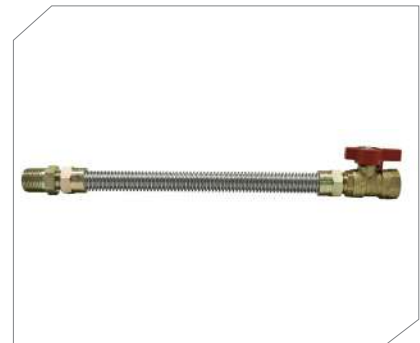


## 014-SS Series Connector with Ball Valve

- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



| ID            | Part #              | Description                  | U/M | Price | Qty/ Box |
|---------------|---------------------|------------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-SS-1031-12 | 1/2" MIP x 1/2" B.Valve, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1031-18 | 1/2" MIP x 1/2" B.Valve, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1031-24 | 1/2" MIP x 1/2" B.Valve, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1031-30 | 1/2" MIP x 1/2" B.Valve, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1031-36 | 1/2" MIP x 1/2" B.Valve, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1031-48 | 1/2" MIP x 1/2" B.Valve, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-1031-60 | 1/2" MIP x 1/2" B.Valve, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-SS-1031-72 | 1/2" MIP x 1/2" B.Valve, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

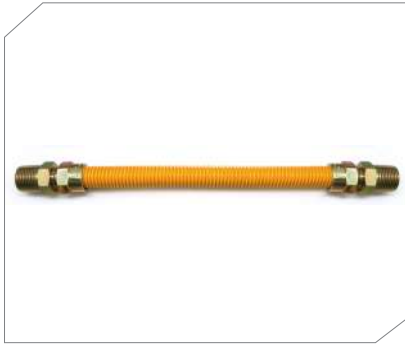
No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# Stainless Steel Flexible *Gas* Connectors

## 014-YE Series Connector with Fittings

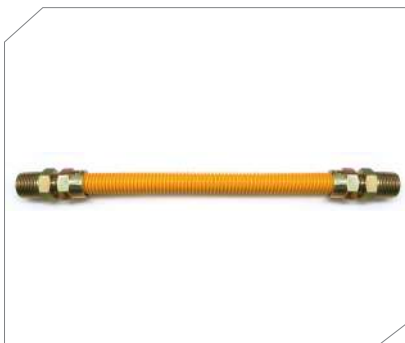
- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



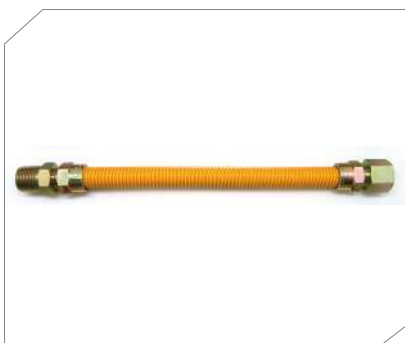
| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-YE-1010-12 | 1/2" MIP x 1/2" MIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1010-18 | 1/2" MIP x 1/2" MIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1010-24 | 1/2" MIP x 1/2" MIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1010-30 | 1/2" MIP x 1/2" MIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1010-36 | 1/2" MIP x 1/2" MIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1010-48 | 1/2" MIP x 1/2" MIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1010-60 | 1/2" MIP x 1/2" MIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-YE-1010-72 | 1/2" MIP x 1/2" MIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-YE-1011-12 | 1/2" MIP x 1/2" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1011-18 | 1/2" MIP x 1/2" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1011-24 | 1/2" MIP x 1/2" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1011-30 | 1/2" MIP x 1/2" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1011-36 | 1/2" MIP x 1/2" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1011-48 | 1/2" MIP x 1/2" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1011-60 | 1/2" MIP x 1/2" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-YE-1011-72 | 1/2" MIP x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-YE-1012-12 | 1/2" MIP x 3/8" MIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1012-18 | 1/2" MIP x 3/8" MIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1012-24 | 1/2" MIP x 3/8" MIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1012-30 | 1/2" MIP x 3/8" MIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1012-36 | 1/2" MIP x 3/8" MIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1012-48 | 1/2" MIP x 3/8" MIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1012-60 | 1/2" MIP x 3/8" MIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-YE-1012-72 | 1/2" MIP x 3/8" MIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-YE-1013-12 | 1/2" MIP x 3/8" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1013-18 | 1/2" MIP x 3/8" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1013-24 | 1/2" MIP x 3/8" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1013-30 | 1/2" MIP x 3/8" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1013-36 | 1/2" MIP x 3/8" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1013-48 | 1/2" MIP x 3/8" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1013-60 | 1/2" MIP x 3/8" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-YE-1013-72 | 1/2" MIP x 3/8" FIP, 72" | EA  |       | 12       |

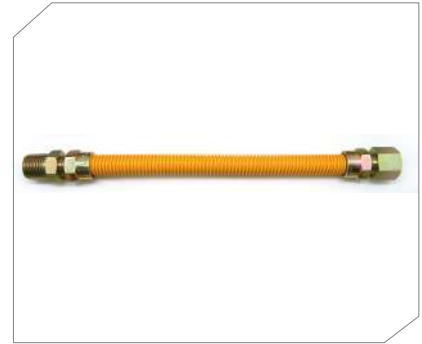
# Stainless Steel Flexible **Gas** Connectors

## 014-YE Series Connector with Fittings

- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-YE-1213-12 | 3/8" MIP x 3/8" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1213-18 | 3/8" MIP x 3/8" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1213-24 | 3/8" MIP x 3/8" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1213-30 | 3/8" MIP x 3/8" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1213-36 | 3/8" MIP x 3/8" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1213-48 | 3/8" MIP x 3/8" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1213-60 | 3/8" MIP x 3/8" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-YE-1213-72 | 3/8" MIP x 3/8" FIP, 72" | EA  |       | 12       |

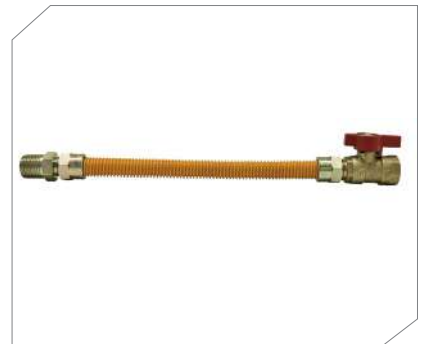


## 014-YE Series Connector with Ball Valve

- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C, Brass Ball Valve
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



| ID            | Part #              | Description                  | U/M | Price | Qty/ Box |
|---------------|---------------------|------------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-YE-1031-12 | 1/2" MIP x 1/2" B.Valve, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1031-18 | 1/2" MIP x 1/2" B.Valve, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1031-24 | 1/2" MIP x 1/2" B.Valve, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1031-30 | 1/2" MIP x 1/2" B.Valve, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1031-36 | 1/2" MIP x 1/2" B.Valve, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1031-48 | 1/2" MIP x 1/2" B.Valve, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-1031-60 | 1/2" MIP x 1/2" B.Valve, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-YE-1031-72 | 1/2" MIP x 1/2" B.Valve, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# Stainless Steel Flexible **Gas** Connectors

## 014-BE Series Connector with Fittings

- Tube : Stainless Steel
- Coating : Black Epoxy
- Fitting : Zinc-Plated Steel S45C
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-BE-1010-12 | 1/2" MIP x 1/2" MIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1010-18 | 1/2" MIP x 1/2" MIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1010-24 | 1/2" MIP x 1/2" MIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1010-30 | 1/2" MIP x 1/2" MIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1010-36 | 1/2" MIP x 1/2" MIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1010-48 | 1/2" MIP x 1/2" MIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1010-60 | 1/2" MIP x 1/2" MIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-BE-1010-72 | 1/2" MIP x 1/2" MIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-BE-1011-12 | 1/2" MIP x 1/2" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1011-18 | 1/2" MIP x 1/2" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1011-24 | 1/2" MIP x 1/2" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1011-30 | 1/2" MIP x 1/2" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1011-36 | 1/2" MIP x 1/2" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1011-48 | 1/2" MIP x 1/2" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1011-60 | 1/2" MIP x 1/2" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-BE-1011-72 | 1/2" MIP x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-BE-1012-12 | 1/2" MIP x 3/8" MIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1012-18 | 1/2" MIP x 3/8" MIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1012-24 | 1/2" MIP x 3/8" MIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1012-30 | 1/2" MIP x 3/8" MIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1012-36 | 1/2" MIP x 3/8" MIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1012-48 | 1/2" MIP x 3/8" MIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1012-60 | 1/2" MIP x 3/8" MIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-BE-1012-72 | 1/2" MIP x 3/8" MIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-BE-1013-12 | 1/2" MIP x 3/8" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1013-18 | 1/2" MIP x 3/8" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1013-24 | 1/2" MIP x 3/8" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1013-30 | 1/2" MIP x 3/8" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1013-36 | 1/2" MIP x 3/8" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1013-48 | 1/2" MIP x 3/8" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1013-60 | 1/2" MIP x 3/8" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-BE-1013-72 | 1/2" MIP x 3/8" FIP, 72" | EA  |       | 12       |

# Stainless Steel Flexible **Gas** Connectors

## 014-BE Series Connector with Fittings

- Tube : Stainless Steel
- Coating : Black Epoxy
- Fitting : Zinc-Plated Steel S45C
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-BE-1213-12 | 3/8" MIP x 3/8" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1213-18 | 3/8" MIP x 3/8" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1213-24 | 3/8" MIP x 3/8" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1213-30 | 3/8" MIP x 3/8" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1213-36 | 3/8" MIP x 3/8" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1213-48 | 3/8" MIP x 3/8" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1213-60 | 3/8" MIP x 3/8" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-BE-1213-72 | 3/8" MIP x 3/8" FIP, 72" | EA  |       | 12       |



## 014-BE Series Connector with Ball Valve

- Tube : Stainless Steel
- Coating : Black Epoxy
- Fitting : Zinc-Plated Steel S45C, Brass Ball Valve
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



| ID            | Part #              | Description                  | U/M | Price | Qty/ Box |
|---------------|---------------------|------------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-BE-1031-12 | 1/2" MIP x 1/2" B.Valve, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1031-18 | 1/2" MIP x 1/2" B.Valve, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1031-24 | 1/2" MIP x 1/2" B.Valve, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1031-30 | 1/2" MIP x 1/2" B.Valve, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1031-36 | 1/2" MIP x 1/2" B.Valve, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1031-48 | 1/2" MIP x 1/2" B.Valve, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-1031-60 | 1/2" MIP x 1/2" B.Valve, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-BE-1031-72 | 1/2" MIP x 1/2" B.Valve, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

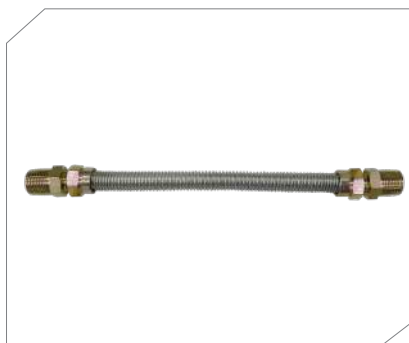
No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

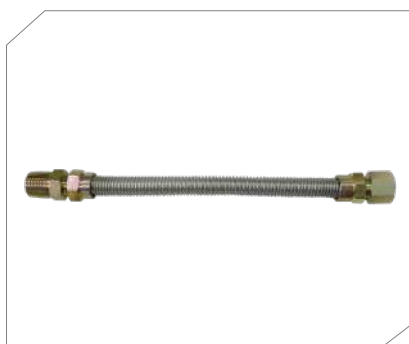
# Stainless Steel Flexible **Gas Connectors**

## 038-SS Series Connector with Fittings

- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



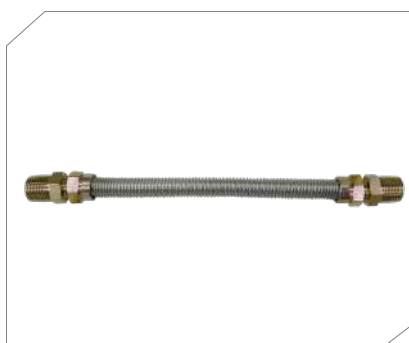
| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-SS-1010-12 | 1/2" MIP x 1/2" MIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1010-18 | 1/2" MIP x 1/2" MIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1010-24 | 1/2" MIP x 1/2" MIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1010-30 | 1/2" MIP x 1/2" MIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1010-36 | 1/2" MIP x 1/2" MIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1010-48 | 1/2" MIP x 1/2" MIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1010-60 | 1/2" MIP x 1/2" MIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-SS-1010-72 | 1/2" MIP x 1/2" MIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-SS-1011-12 | 1/2" MIP x 1/2" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1011-18 | 1/2" MIP x 1/2" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1011-24 | 1/2" MIP x 1/2" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1011-30 | 1/2" MIP x 1/2" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1011-36 | 1/2" MIP x 1/2" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1011-48 | 1/2" MIP x 1/2" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1011-60 | 1/2" MIP x 1/2" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-SS-1011-72 | 1/2" MIP x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-SS-1111-12 | 1/2" FIP x 1/2" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1111-18 | 1/2" FIP x 1/2" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1111-24 | 1/2" FIP x 1/2" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1111-30 | 1/2" FIP x 1/2" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1111-36 | 1/2" FIP x 1/2" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1111-48 | 1/2" FIP x 1/2" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1111-60 | 1/2" FIP x 1/2" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-SS-1111-72 | 1/2" FIP x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-SS-1012-12 | 1/2" MIP x 3/8" MIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1012-18 | 1/2" MIP x 3/8" MIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1012-24 | 1/2" MIP x 3/8" MIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1012-30 | 1/2" MIP x 3/8" MIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1012-36 | 1/2" MIP x 3/8" MIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1012-48 | 1/2" MIP x 3/8" MIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1012-60 | 1/2" MIP x 3/8" MIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-SS-1012-72 | 1/2" MIP x 3/8" MIP, 72" | EA  |       | 12       |

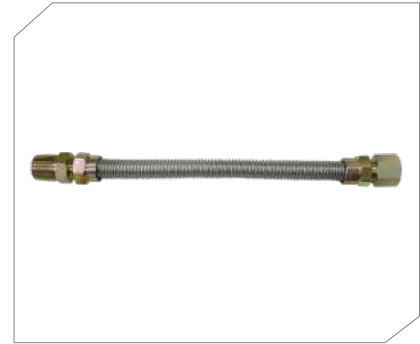
# Stainless Steel Flexible **Gas** Connectors

## 038-SS Series Connector with Fittings

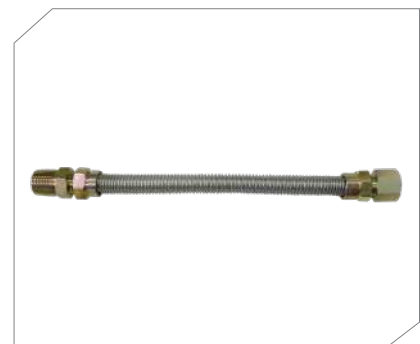
- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-SS-1013-12 | 1/2" MIP x 3/8" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1013-18 | 1/2" MIP x 3/8" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1013-24 | 1/2" MIP x 3/8" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1013-30 | 1/2" MIP x 3/8" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1013-36 | 1/2" MIP x 3/8" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1013-48 | 1/2" MIP x 3/8" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1013-60 | 1/2" MIP x 3/8" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-SS-1013-72 | 1/2" MIP x 3/8" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-SS-1213-12 | 3/8" MIP x 3/8" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1213-18 | 3/8" MIP x 3/8" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1213-24 | 3/8" MIP x 3/8" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1213-30 | 3/8" MIP x 3/8" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1213-36 | 3/8" MIP x 3/8" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1213-48 | 3/8" MIP x 3/8" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1213-60 | 3/8" MIP x 3/8" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-SS-1213-72 | 3/8" MIP x 3/8" FIP, 72" | EA  |       | 12       |

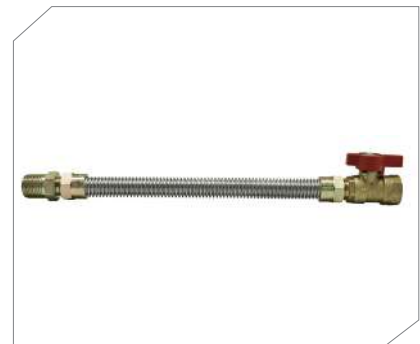


## 038-SS Series Connector with Ball Valve

- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



| ID            | Part #              | Description                  | U/M | Price | Qty/ Box |
|---------------|---------------------|------------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-SS-1031-12 | 1/2" MIP x 1/2" B.Valve, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1031-18 | 1/2" MIP x 1/2" B.Valve, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1031-24 | 1/2" MIP x 1/2" B.Valve, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1031-30 | 1/2" MIP x 1/2" B.Valve, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1031-36 | 1/2" MIP x 1/2" B.Valve, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1031-48 | 1/2" MIP x 1/2" B.Valve, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-1031-60 | 1/2" MIP x 1/2" B.Valve, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-SS-1031-72 | 1/2" MIP x 1/2" B.Valve, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

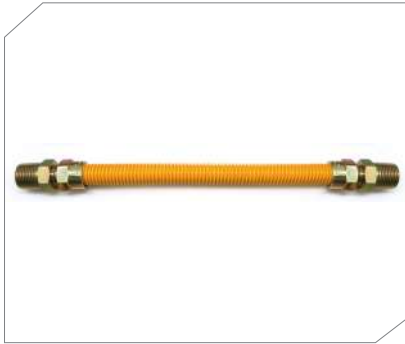
No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

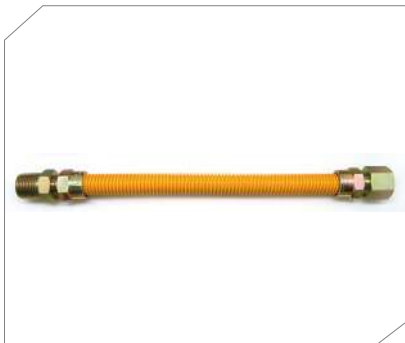
# Stainless Steel Flexible **Gas Connectors**

## 038-YE Series Connector with Fittings

- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



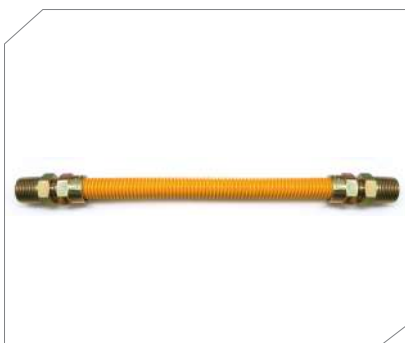
| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-YE-1010-12 | 1/2" MIP x 1/2" MIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1010-18 | 1/2" MIP x 1/2" MIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1010-24 | 1/2" MIP x 1/2" MIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1010-30 | 1/2" MIP x 1/2" MIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1010-36 | 1/2" MIP x 1/2" MIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1010-48 | 1/2" MIP x 1/2" MIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1010-60 | 1/2" MIP x 1/2" MIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-YE-1010-72 | 1/2" MIP x 1/2" MIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-YE-1011-12 | 1/2" MIP x 1/2" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1011-18 | 1/2" MIP x 1/2" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1011-24 | 1/2" MIP x 1/2" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1011-30 | 1/2" MIP x 1/2" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1011-36 | 1/2" MIP x 1/2" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1011-48 | 1/2" MIP x 1/2" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1011-60 | 1/2" MIP x 1/2" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-YE-1011-72 | 1/2" MIP x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-YE-1111-12 | 1/2" FIP x 1/2" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1111-18 | 1/2" FIP x 1/2" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1111-24 | 1/2" FIP x 1/2" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1111-30 | 1/2" FIP x 1/2" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1111-36 | 1/2" FIP x 1/2" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1111-48 | 1/2" FIP x 1/2" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1111-60 | 1/2" FIP x 1/2" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-YE-1111-72 | 1/2" FIP x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-YE-1012-12 | 1/2" MIP x 3/8" MIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1012-18 | 1/2" MIP x 3/8" MIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1012-24 | 1/2" MIP x 3/8" MIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1012-30 | 1/2" MIP x 3/8" MIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1012-36 | 1/2" MIP x 3/8" MIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1012-48 | 1/2" MIP x 3/8" MIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1012-60 | 1/2" MIP x 3/8" MIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-YE-1012-72 | 1/2" MIP x 3/8" MIP, 72" | EA  |       | 12       |

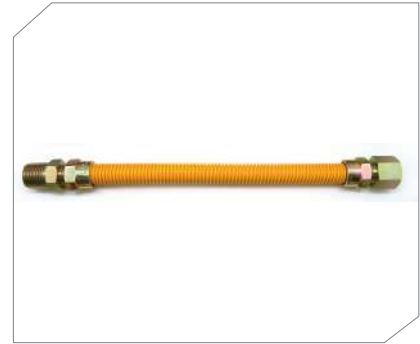
# Stainless Steel Flexible **Gas** Connectors

## 038-YE Series Connector with Fittings

- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-YE-1013-12 | 1/2" MIP x 3/8" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1013-18 | 1/2" MIP x 3/8" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1013-24 | 1/2" MIP x 3/8" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1013-30 | 1/2" MIP x 3/8" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1013-36 | 1/2" MIP x 3/8" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1013-48 | 1/2" MIP x 3/8" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1013-60 | 1/2" MIP x 3/8" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-YE-1013-72 | 1/2" MIP x 3/8" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-YE-1213-12 | 3/8" MIP x 3/8" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1213-18 | 3/8" MIP x 3/8" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1213-24 | 3/8" MIP x 3/8" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1213-30 | 3/8" MIP x 3/8" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1213-36 | 3/8" MIP x 3/8" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1213-48 | 3/8" MIP x 3/8" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1213-60 | 3/8" MIP x 3/8" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-YE-1213-72 | 3/8" MIP x 3/8" FIP, 72" | EA  |       | 12       |

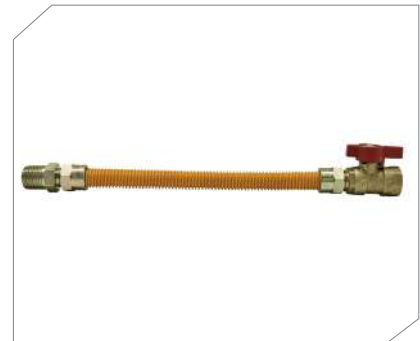


## 038-YE Series Connector with Ball Valve

- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



| ID            | Part #              | Description                  | U/M | Price | Qty/ Box |
|---------------|---------------------|------------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-YE-1031-12 | 1/2" MIP x 1/2" B.Valve, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1031-18 | 1/2" MIP x 1/2" B.Valve, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1031-24 | 1/2" MIP x 1/2" B.Valve, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1031-30 | 1/2" MIP x 1/2" B.Valve, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1031-36 | 1/2" MIP x 1/2" B.Valve, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1031-48 | 1/2" MIP x 1/2" B.Valve, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-1031-60 | 1/2" MIP x 1/2" B.Valve, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-YE-1031-72 | 1/2" MIP x 1/2" B.Valve, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# Stainless Steel Flexible **Gas** Connectors

## 038-BE Series Connector with Fittings

- Tube : Stainless Steel
- Coating : Black Epoxy
- Fitting : Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



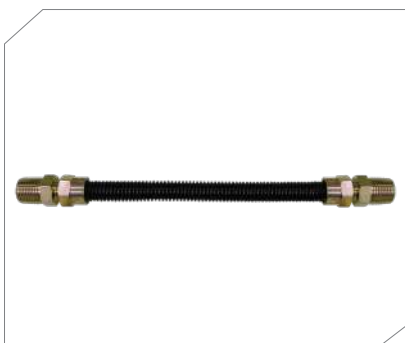
| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-BE-1010-12 | 1/2" MIP x 1/2" MIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1010-18 | 1/2" MIP x 1/2" MIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1010-24 | 1/2" MIP x 1/2" MIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1010-30 | 1/2" MIP x 1/2" MIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1010-36 | 1/2" MIP x 1/2" MIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1010-48 | 1/2" MIP x 1/2" MIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1010-60 | 1/2" MIP x 1/2" MIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-BE-1010-72 | 1/2" MIP x 1/2" MIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-BE-1011-12 | 1/2" MIP x 1/2" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1011-18 | 1/2" MIP x 1/2" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1011-24 | 1/2" MIP x 1/2" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1011-30 | 1/2" MIP x 1/2" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1011-36 | 1/2" MIP x 1/2" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1011-48 | 1/2" MIP x 1/2" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1011-60 | 1/2" MIP x 1/2" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-BE-1011-72 | 1/2" MIP x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-BE-1111-12 | 1/2" FIP x 1/2" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1111-18 | 1/2" FIP x 1/2" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1111-24 | 1/2" FIP x 1/2" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1111-30 | 1/2" FIP x 1/2" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1111-36 | 1/2" FIP x 1/2" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1111-48 | 1/2" FIP x 1/2" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1111-60 | 1/2" FIP x 1/2" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-BE-1111-72 | 1/2" FIP x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-BE-1012-12 | 1/2" MIP x 3/8" MIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1012-18 | 1/2" MIP x 3/8" MIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1012-24 | 1/2" MIP x 3/8" MIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1012-30 | 1/2" MIP x 3/8" MIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1012-36 | 1/2" MIP x 3/8" MIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1012-48 | 1/2" MIP x 3/8" MIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1012-60 | 1/2" MIP x 3/8" MIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-BE-1012-72 | 1/2" MIP x 3/8" MIP, 72" | EA  |       | 12       |

# Stainless Steel Flexible **Gas** Connectors

## 038-BE Series Connector with Fittings

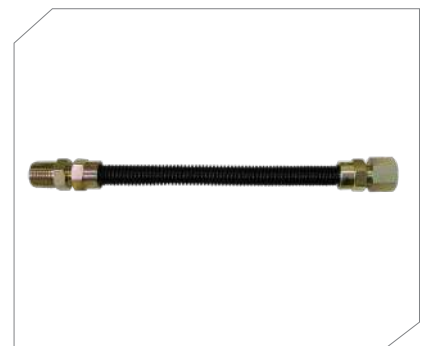
- Tube : Stainless Steel
- Coating : Black Epoxy
- Fitting : Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-BE-1013-12 | 1/2" MIP x 3/8" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1013-18 | 1/2" MIP x 3/8" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1013-24 | 1/2" MIP x 3/8" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1013-30 | 1/2" MIP x 3/8" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1013-36 | 1/2" MIP x 3/8" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1013-48 | 1/2" MIP x 3/8" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1013-60 | 1/2" MIP x 3/8" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-BE-1013-72 | 1/2" MIP x 3/8" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-BE-1213-12 | 3/8" MIP x 3/8" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1213-18 | 3/8" MIP x 3/8" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1213-24 | 3/8" MIP x 3/8" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1213-30 | 3/8" MIP x 3/8" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1213-36 | 3/8" MIP x 3/8" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1213-48 | 3/8" MIP x 3/8" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1213-60 | 3/8" MIP x 3/8" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-BE-1213-72 | 3/8" MIP x 3/8" FIP, 72" | EA  |       | 12       |

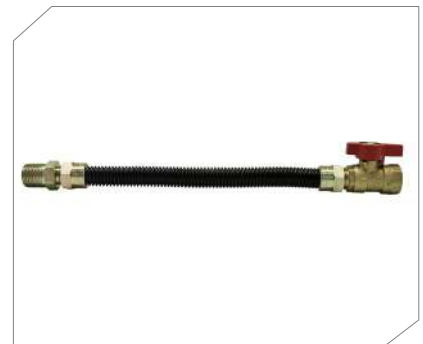


## 038-BE Series Connector with Ball Valve

- Tube : Stainless Steel
- Coating : Black Epoxy
- Fitting : Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



| ID            | Part #              | Description                  | U/M | Price | Qty/ Box |
|---------------|---------------------|------------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-BE-1031-12 | 1/2" MIP x 1/2" B.Valve, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1031-18 | 1/2" MIP x 1/2" B.Valve, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1031-24 | 1/2" MIP x 1/2" B.Valve, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1031-30 | 1/2" MIP x 1/2" B.Valve, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1031-36 | 1/2" MIP x 1/2" B.Valve, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1031-48 | 1/2" MIP x 1/2" B.Valve, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-1031-60 | 1/2" MIP x 1/2" B.Valve, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-BE-1031-72 | 1/2" MIP x 1/2" B.Valve, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

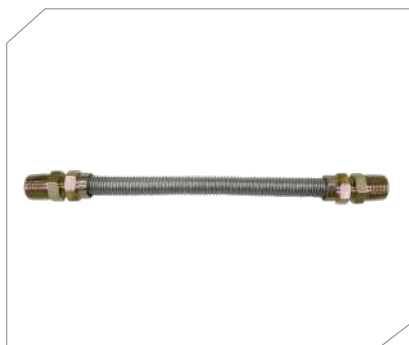
No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

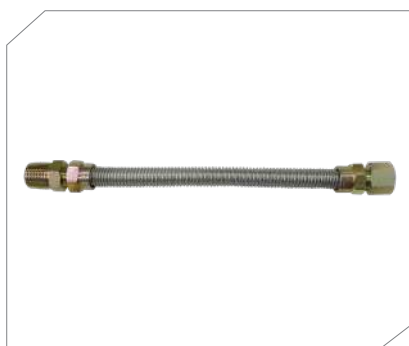
# Stainless Steel Flexible **Gas** Connectors

## 012-SS Series Connector with Fittings

- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C
- 15/16-16 Thread
- 5/8" OD (1/2" ID)



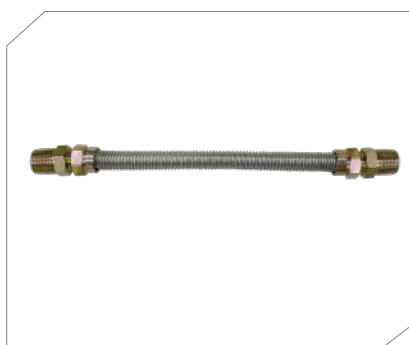
| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-1010-12 | 1/2" MIP x 1/2" MIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1010-18 | 1/2" MIP x 1/2" MIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1010-24 | 1/2" MIP x 1/2" MIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1010-30 | 1/2" MIP x 1/2" MIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1010-36 | 1/2" MIP x 1/2" MIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1010-48 | 1/2" MIP x 1/2" MIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1010-60 | 1/2" MIP x 1/2" MIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-1010-72 | 1/2" MIP x 1/2" MIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-1011-12 | 1/2" MIP x 1/2" FIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1011-18 | 1/2" MIP x 1/2" FIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1011-24 | 1/2" MIP x 1/2" FIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1011-30 | 1/2" MIP x 1/2" FIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1011-36 | 1/2" MIP x 1/2" FIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1011-48 | 1/2" MIP x 1/2" FIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1011-60 | 1/2" MIP x 1/2" FIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-1011-72 | 1/2" MIP x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-1111-12 | 1/2" FIP x 1/2" FIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1111-18 | 1/2" FIP x 1/2" FIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1111-24 | 1/2" FIP x 1/2" FIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1111-30 | 1/2" FIP x 1/2" FIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1111-36 | 1/2" FIP x 1/2" FIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1111-48 | 1/2" FIP x 1/2" FIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1111-60 | 1/2" FIP x 1/2" FIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-1111-72 | 1/2" FIP x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-1014-12 | 1/2" MIP x 3/4" MIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1014-18 | 1/2" MIP x 3/4" MIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1014-24 | 1/2" MIP x 3/4" MIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1014-30 | 1/2" MIP x 3/4" MIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1014-36 | 1/2" MIP x 3/4" MIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1014-48 | 1/2" MIP x 3/4" MIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1014-60 | 1/2" MIP x 3/4" MIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-1014-72 | 1/2" MIP x 3/4" MIP, 72" | EA  |       | 12       |

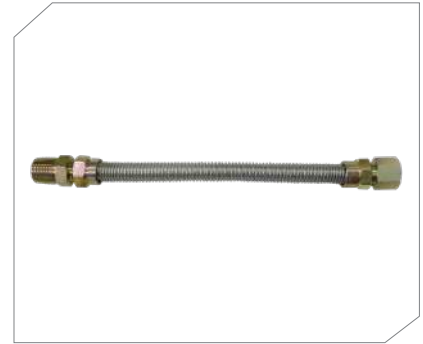
# Stainless Steel Flexible Gas Connectors

## 012-SS Series Connector with Fittings

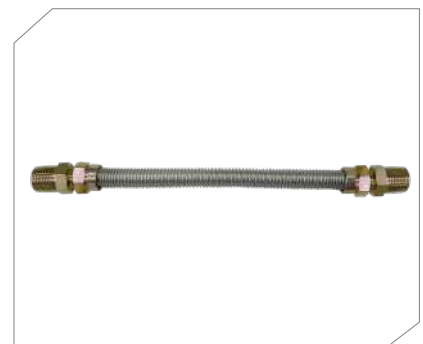
- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C
- 15/16-16 Thread
- 5/8" OD (1/2" ID)



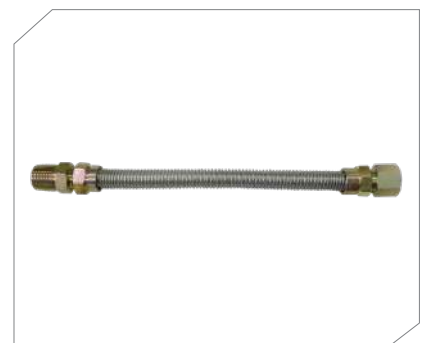
| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-1015-12 | 1/2" MIP x 3/4" FIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1015-18 | 1/2" MIP x 3/4" FIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1015-24 | 1/2" MIP x 3/4" FIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1015-30 | 1/2" MIP x 3/4" FIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1015-36 | 1/2" MIP x 3/4" FIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1015-48 | 1/2" MIP x 3/4" FIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1015-60 | 1/2" MIP x 3/4" FIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-1015-72 | 1/2" MIP x 3/4" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-1414-12 | 3/4" MIP x 3/4" MIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1414-18 | 3/4" MIP x 3/4" MIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1414-24 | 3/4" MIP x 3/4" MIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1414-30 | 3/4" MIP x 3/4" MIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1414-36 | 3/4" MIP x 3/4" MIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1414-48 | 3/4" MIP x 3/4" MIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1414-60 | 3/4" MIP x 3/4" MIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-1414-72 | 3/4" MIP x 3/4" MIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-1415-12 | 3/4" MIP x 3/4" FIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1415-18 | 3/4" MIP x 3/4" FIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1415-24 | 3/4" MIP x 3/4" FIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1415-30 | 3/4" MIP x 3/4" FIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1415-36 | 3/4" MIP x 3/4" FIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1415-48 | 3/4" MIP x 3/4" FIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1415-60 | 3/4" MIP x 3/4" FIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-1415-72 | 3/4" MIP x 3/4" FIP, 72" | EA  |       | 12       |



| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-1515-12 | 3/4" FIP x 3/4" FIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1515-18 | 3/4" FIP x 3/4" FIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1515-24 | 3/4" FIP x 3/4" FIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1515-30 | 3/4" FIP x 3/4" FIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1515-36 | 3/4" FIP x 3/4" FIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1515-48 | 3/4" FIP x 3/4" FIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1515-60 | 3/4" FIP x 3/4" FIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-1515-72 | 3/4" FIP x 3/4" FIP, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

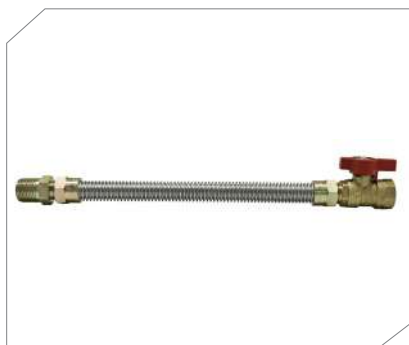
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Couplings

Flexible  
Sprinkler  
Drops

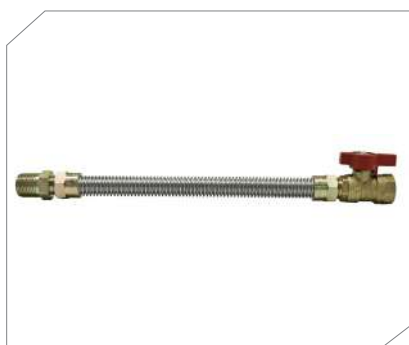
# Stainless Steel Flexible **Gas Connectors**

## 012-SS Series Connector with Ball Valve

- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C, Brass Ball Valve
- 15/16-16 Thread
- 5/8" OD (1/2" ID)



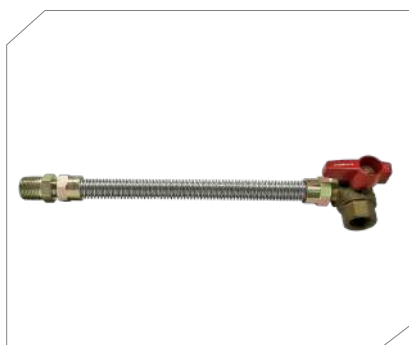
| ID            | Part #              | Description                  | U/M | Price | Qty/ Box |
|---------------|---------------------|------------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-1031-12 | 1/2" MIP x 1/2" B.Valve, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1031-18 | 1/2" MIP x 1/2" B.Valve, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1031-24 | 1/2" MIP x 1/2" B.Valve, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1031-30 | 1/2" MIP x 1/2" B.Valve, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1031-36 | 1/2" MIP x 1/2" B.Valve, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1031-48 | 1/2" MIP x 1/2" B.Valve, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1031-60 | 1/2" MIP x 1/2" B.Valve, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-1031-72 | 1/2" MIP x 1/2" B.Valve, 72" | EA  |       | 12       |



| ID            | Part #              | Description                  | U/M | Price | Qty/ Box |
|---------------|---------------------|------------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-1033-12 | 1/2" MIP x 3/4" B.Valve, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1033-18 | 1/2" MIP x 3/4" B.Valve, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1033-24 | 1/2" MIP x 3/4" B.Valve, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1033-30 | 1/2" MIP x 3/4" B.Valve, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1033-36 | 1/2" MIP x 3/4" B.Valve, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1033-48 | 1/2" MIP x 3/4" B.Valve, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1033-60 | 1/2" MIP x 3/4" B.Valve, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-1033-72 | 1/2" MIP x 3/4" B.Valve, 72" | EA  |       | 12       |

## 012-SS Series Connector with Angle Valve

- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C, Brass Angle Valve
- 15/16-16 Thread
- 5/8" OD (1/2" ID)



| ID            | Part #              | Description                  | U/M | Price | Qty/ Box |
|---------------|---------------------|------------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-1043-12 | 1/2" MIP x 3/4" A.Valve, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1043-18 | 1/2" MIP x 3/4" A.Valve, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1043-24 | 1/2" MIP x 3/4" A.Valve, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1043-30 | 1/2" MIP x 3/4" A.Valve, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1043-36 | 1/2" MIP x 3/4" A.Valve, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1043-48 | 1/2" MIP x 3/4" A.Valve, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-1043-60 | 1/2" MIP x 3/4" A.Valve, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-1043-72 | 1/2" MIP x 3/4" A.Valve, 72" | EA  |       | 12       |

# Stainless Steel Flexible *Gas* Connectors

## 012-YE Series Connector with Fittings

- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C
- 15/16-16 Thread
- 5/8" OD (1/2" ID)



| ID            | Part #              | Description          | U/M    | Price | Qty/ Box |
|---------------|---------------------|----------------------|--------|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-1010-12 | 1/2" MIP x 1/2" MIP, | 12" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1010-18 | 1/2" MIP x 1/2" MIP, | 18" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1010-24 | 1/2" MIP x 1/2" MIP, | 24" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1010-30 | 1/2" MIP x 1/2" MIP, | 30" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1010-36 | 1/2" MIP x 1/2" MIP, | 36" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1010-48 | 1/2" MIP x 1/2" MIP, | 48" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1010-60 | 1/2" MIP x 1/2" MIP, | 60" EA |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-1010-72 | 1/2" MIP x 1/2" MIP, | 72" EA |       | 12       |



| ID            | Part #              | Description          | U/M    | Price | Qty/ Box |
|---------------|---------------------|----------------------|--------|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-1011-12 | 1/2" MIP x 1/2" FIP, | 12" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1011-18 | 1/2" MIP x 1/2" FIP, | 18" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1011-24 | 1/2" MIP x 1/2" FIP, | 24" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1011-30 | 1/2" MIP x 1/2" FIP, | 30" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1011-36 | 1/2" MIP x 1/2" FIP, | 36" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1011-48 | 1/2" MIP x 1/2" FIP, | 48" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1011-60 | 1/2" MIP x 1/2" FIP, | 60" EA |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-1011-72 | 1/2" MIP x 1/2" FIP, | 72" EA |       | 12       |



| ID            | Part #              | Description          | U/M    | Price | Qty/ Box |
|---------------|---------------------|----------------------|--------|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-1111-12 | 1/2" FIP x 1/2" FIP, | 12" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1111-18 | 1/2" FIP x 1/2" FIP, | 18" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1111-24 | 1/2" FIP x 1/2" FIP, | 24" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1111-30 | 1/2" FIP x 1/2" FIP, | 30" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1111-36 | 1/2" FIP x 1/2" FIP, | 36" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1111-48 | 1/2" FIP x 1/2" FIP, | 48" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1111-60 | 1/2" FIP x 1/2" FIP, | 60" EA |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-1111-72 | 1/2" FIP x 1/2" FIP, | 72" EA |       | 12       |



| ID            | Part #              | Description          | U/M    | Price | Qty/ Box |
|---------------|---------------------|----------------------|--------|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-1014-12 | 1/2" MIP x 3/4" MIP, | 12" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1014-18 | 1/2" MIP x 3/4" MIP, | 18" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1014-24 | 1/2" MIP x 3/4" MIP, | 24" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1014-30 | 1/2" MIP x 3/4" MIP, | 30" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1014-36 | 1/2" MIP x 3/4" MIP, | 36" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1014-48 | 1/2" MIP x 3/4" MIP, | 48" EA |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1014-60 | 1/2" MIP x 3/4" MIP, | 60" EA |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-1014-72 | 1/2" MIP x 3/4" MIP, | 72" EA |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

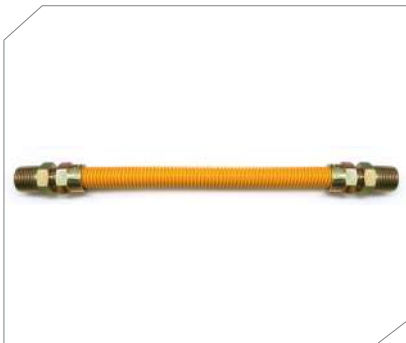
# Stainless Steel Flexible *Gas* Connectors

## 012-YE Series Connector with Fittings

- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C
- 15/16-16 Thread
- 5/8" OD (1/2" ID)



| ID            | Part #              | Description          | U/M | Price | Qty/ Box |
|---------------|---------------------|----------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-1015-12 | 1/2" MIP x 3/4" FIP, | 12" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1015-18 | 1/2" MIP x 3/4" FIP, | 18" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1015-24 | 1/2" MIP x 3/4" FIP, | 24" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1015-30 | 1/2" MIP x 3/4" FIP, | 30" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1015-36 | 1/2" MIP x 3/4" FIP, | 36" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1015-48 | 1/2" MIP x 3/4" FIP, | 48" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1015-60 | 1/2" MIP x 3/4" FIP, | 60" | EA    | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-1015-72 | 1/2" MIP x 3/4" FIP, | 72" | EA    | 12       |



| ID            | Part #              | Description          | U/M | Price | Qty/ Box |
|---------------|---------------------|----------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-1414-12 | 3/4" MIP x 3/4" MIP, | 12" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1414-18 | 3/4" MIP x 3/4" MIP, | 18" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1414-24 | 3/4" MIP x 3/4" MIP, | 24" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1414-30 | 3/4" MIP x 3/4" MIP, | 30" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1414-36 | 3/4" MIP x 3/4" MIP, | 36" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1414-48 | 3/4" MIP x 3/4" MIP, | 48" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1414-60 | 3/4" MIP x 3/4" MIP, | 60" | EA    | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-1414-72 | 3/4" MIP x 3/4" MIP, | 72" | EA    | 12       |



| ID            | Part #              | Description          | U/M | Price | Qty/ Box |
|---------------|---------------------|----------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-1415-12 | 3/4" MIP x 3/4" FIP, | 12" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1415-18 | 3/4" MIP x 3/4" FIP, | 18" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1415-24 | 3/4" MIP x 3/4" FIP, | 24" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1415-30 | 3/4" MIP x 3/4" FIP, | 30" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1415-36 | 3/4" MIP x 3/4" FIP, | 36" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1415-48 | 3/4" MIP x 3/4" FIP, | 48" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1415-60 | 3/4" MIP x 3/4" FIP, | 60" | EA    | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-1415-72 | 3/4" MIP x 3/4" FIP, | 72" | EA    | 12       |



| ID            | Part #              | Description          | U/M | Price | Qty/ Box |
|---------------|---------------------|----------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-1515-12 | 3/4" FIP x 3/4" FIP, | 12" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1515-18 | 3/4" FIP x 3/4" FIP, | 18" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1515-24 | 3/4" FIP x 3/4" FIP, | 24" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1515-30 | 3/4" FIP x 3/4" FIP, | 30" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1515-36 | 3/4" FIP x 3/4" FIP, | 36" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1515-48 | 3/4" FIP x 3/4" FIP, | 48" | EA    | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1515-60 | 3/4" FIP x 3/4" FIP, | 60" | EA    | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-1515-72 | 3/4" FIP x 3/4" FIP, | 72" | EA    | 12       |

# Stainless Steel Flexible Gas Connectors

## 012-YE Series Connector with Ball Valve

- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C, Brass Ball Valve
- 15/16-16 Thread
- 5/8" OD (1/2" ID)



| ID            | Part #              | Description                  | U/M | Price | Qty/ Box |
|---------------|---------------------|------------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-1031-12 | 1/2" MIP x 1/2" B.Valve, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1031-18 | 1/2" MIP x 1/2" B.Valve, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1031-24 | 1/2" MIP x 1/2" B.Valve, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1031-30 | 1/2" MIP x 1/2" B.Valve, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1031-36 | 1/2" MIP x 1/2" B.Valve, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1031-48 | 1/2" MIP x 1/2" B.Valve, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1031-60 | 1/2" MIP x 1/2" B.Valve, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-1031-72 | 1/2" MIP x 1/2" B.Valve, 72" | EA  |       | 12       |



| ID            | Part #              | Description                  | U/M | Price | Qty/ Box |
|---------------|---------------------|------------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-1033-12 | 1/2" MIP x 3/4" B.Valve, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1033-18 | 1/2" MIP x 3/4" B.Valve, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1033-24 | 1/2" MIP x 3/4" B.Valve, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1033-30 | 1/2" MIP x 3/4" B.Valve, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1033-36 | 1/2" MIP x 3/4" B.Valve, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1033-48 | 1/2" MIP x 3/4" B.Valve, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1033-60 | 1/2" MIP x 3/4" B.Valve, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-1033-72 | 1/2" MIP x 3/4" B.Valve, 72" | EA  |       | 12       |



## 012-YE Series Connector with Angle Valve

- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C, Brass Angle Valve
- 15/16-16 Thread
- 5/8" OD (1/2" ID)



| ID            | Part #              | Description                  | U/M | Price | Qty/ Box |
|---------------|---------------------|------------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-1043-12 | 1/2" MIP x 3/4" A.Valve, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1043-18 | 1/2" MIP x 3/4" A.Valve, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1043-24 | 1/2" MIP x 3/4" A.Valve, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1043-30 | 1/2" MIP x 3/4" A.Valve, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1043-36 | 1/2" MIP x 3/4" A.Valve, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1043-48 | 1/2" MIP x 3/4" A.Valve, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-1043-60 | 1/2" MIP x 3/4" A.Valve, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-1043-72 | 1/2" MIP x 3/4" A.Valve, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

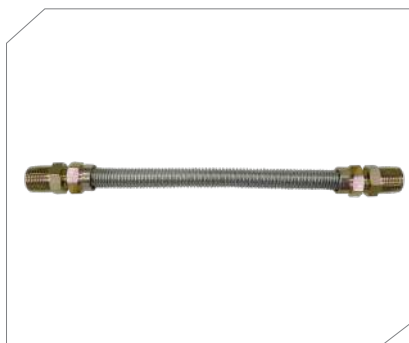
No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

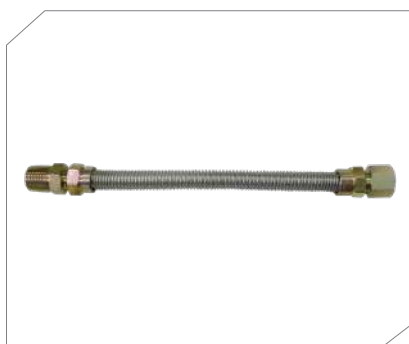
# Stainless Steel Flexible *Gas* Connectors

## 034-SS Series Connector with Fittings

- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C
- 1-1/8-16 Thread
- 1" OD (3/4" ID)



| ID          | Part #              | Description              | U/M | Price | Qty/ Box |
|-------------|---------------------|--------------------------|-----|-------|----------|
| 3/4" (1"OD) | EFGC-034-SS-1414-12 | 3/4" MIP x 3/4" MIP, 12" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1414-18 | 3/4" MIP x 3/4" MIP, 18" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1414-24 | 3/4" MIP x 3/4" MIP, 24" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1414-30 | 3/4" MIP x 3/4" MIP, 30" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1414-36 | 3/4" MIP x 3/4" MIP, 36" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1414-48 | 3/4" MIP x 3/4" MIP, 48" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1414-60 | 3/4" MIP x 3/4" MIP, 60" | EA  |       | 12       |
| 3/4" (1"OD) | EFGC-034-SS-1414-72 | 3/4" MIP x 3/4" MIP, 72" | EA  |       | 12       |



| ID          | Part #              | Description              | U/M | Price | Qty/ Box |
|-------------|---------------------|--------------------------|-----|-------|----------|
| 3/4" (1"OD) | EFGC-034-SS-1415-12 | 3/4" MIP x 3/4" FIP, 12" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1415-18 | 3/4" MIP x 3/4" FIP, 18" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1415-24 | 3/4" MIP x 3/4" FIP, 24" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1415-30 | 3/4" MIP x 3/4" FIP, 30" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1415-36 | 3/4" MIP x 3/4" FIP, 36" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1415-48 | 3/4" MIP x 3/4" FIP, 48" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1415-60 | 3/4" MIP x 3/4" FIP, 60" | EA  |       | 12       |
| 3/4" (1"OD) | EFGC-034-SS-1415-72 | 3/4" MIP x 3/4" FIP, 72" | EA  |       | 12       |



| ID          | Part #              | Description              | U/M | Price | Qty/ Box |
|-------------|---------------------|--------------------------|-----|-------|----------|
| 3/4" (1"OD) | EFGC-034-SS-1515-12 | 3/4" FIP x 3/4" FIP, 12" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1515-18 | 3/4" FIP x 3/4" FIP, 18" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1515-24 | 3/4" FIP x 3/4" FIP, 24" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1515-30 | 3/4" FIP x 3/4" FIP, 30" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1515-36 | 3/4" FIP x 3/4" FIP, 36" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1515-48 | 3/4" FIP x 3/4" FIP, 48" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-SS-1515-60 | 3/4" FIP x 3/4" FIP, 60" | EA  |       | 12       |
| 3/4" (1"OD) | EFGC-034-SS-1515-72 | 3/4" FIP x 3/4" FIP, 72" | EA  |       | 12       |

# Stainless Steel Flexible **Gas** Connectors

## 034-YE Series Connector with Fittings

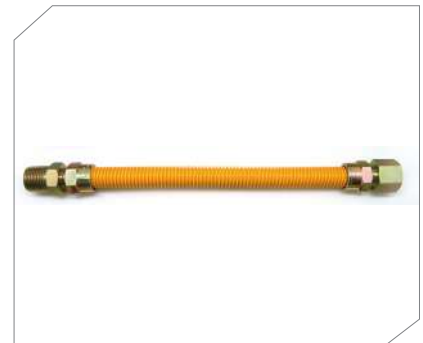
- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C
- 1-1/8-16 Thread
- 1" OD (3/4" ID)



| ID          | Part #              | Description              | U/M | Price | Qty/ Box |
|-------------|---------------------|--------------------------|-----|-------|----------|
| 3/4" (1"OD) | EFGC-034-YE-1414-12 | 3/4" MIP x 3/4" MIP, 12" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1414-18 | 3/4" MIP x 3/4" MIP, 18" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1414-24 | 3/4" MIP x 3/4" MIP, 24" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1414-30 | 3/4" MIP x 3/4" MIP, 30" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1414-36 | 3/4" MIP x 3/4" MIP, 36" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1414-48 | 3/4" MIP x 3/4" MIP, 48" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1414-60 | 3/4" MIP x 3/4" MIP, 60" | EA  |       | 12       |
| 3/4" (1"OD) | EFGC-034-YE-1414-72 | 3/4" MIP x 3/4" MIP, 72" | EA  |       | 12       |



| ID          | Part #              | Description              | U/M | Price | Qty/ Box |
|-------------|---------------------|--------------------------|-----|-------|----------|
| 3/4" (1"OD) | EFGC-034-YE-1415-12 | 3/4" MIP x 3/4" FIP, 12" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1415-18 | 3/4" MIP x 3/4" FIP, 18" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1415-24 | 3/4" MIP x 3/4" FIP, 24" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1415-30 | 3/4" MIP x 3/4" FIP, 30" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1415-36 | 3/4" MIP x 3/4" FIP, 36" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1415-48 | 3/4" MIP x 3/4" FIP, 48" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1415-60 | 3/4" MIP x 3/4" FIP, 60" | EA  |       | 12       |
| 3/4" (1"OD) | EFGC-034-YE-1415-72 | 3/4" MIP x 3/4" FIP, 72" | EA  |       | 12       |



| ID          | Part #              | Description              | U/M | Price | Qty/ Box |
|-------------|---------------------|--------------------------|-----|-------|----------|
| 3/4" (1"OD) | EFGC-034-YE-1515-12 | 3/4" FIP x 3/4" FIP, 12" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1515-18 | 3/4" FIP x 3/4" FIP, 18" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1515-24 | 3/4" FIP x 3/4" FIP, 24" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1515-30 | 3/4" FIP x 3/4" FIP, 30" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1515-36 | 3/4" FIP x 3/4" FIP, 36" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1515-48 | 3/4" FIP x 3/4" FIP, 48" | EA  |       | 25       |
| 3/4" (1"OD) | EFGC-034-YE-1515-60 | 3/4" FIP x 3/4" FIP, 60" | EA  |       | 12       |
| 3/4" (1"OD) | EFGC-034-YE-1515-72 | 3/4" FIP x 3/4" FIP, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

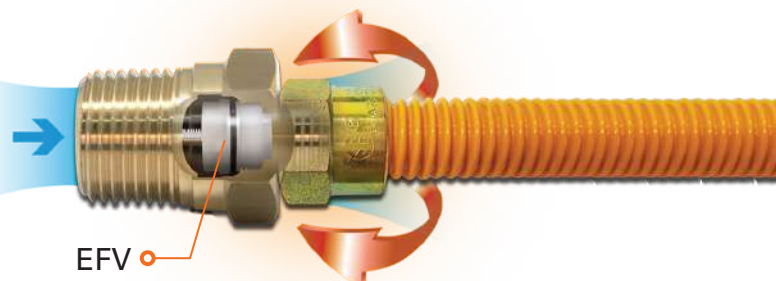


## ***NEW Automatic Safety Valve for Gas Appliance***

### **Automatic Excess Flow Shut-off Connectors**

In the case of a gas line rupture or a disconnect from the appliance, Easyflex's EFV detects the increase of gas flow and immediately shuts-off the supply of gas. Gas flow is controlled only at the appliance where the problem exists. The valve will remain activated until the gas line is properly repaired.

- Automatic Activation
- Simple Reset
- Battery Not Required
- 100% Performance Tested



Excess Flow Valve (EFV)

# Stainless Steel Flexible Gas Connectors



## Product Testing

|                                     |                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------|
| Strength Test                       | Withstands an internal hydrostatic pressure of 250 psi (17MPa) without bursting or leaking |
| Bending Test                        | Withstands 30 bends without leaking in depths less than 2 inches of water                  |
| Torsion Test                        | Withstands 15 applications of 90° twists                                                   |
| Durability at High Temperature Test | Withstands temperatures of up to 800°F                                                     |
| Strength of Fittings                | Does not leak within a tightened torque of 1,040 inch-pounds                               |

## Certifications, Approvals, Listings and Compliance

### United States | CSA USA Standards Association

- ANSI Z 21.24 Connectors for Gas Appliances
- ANSI Z 21.75 Connectors for Outdoor Appliances and Manufactured Homes
- ANSI Z 21.93 Excess Flow Valves for Natural and LP Gas with Pressures of Up to 5 psig

### Canada | CSA Canadian Standards Association

- CSA 6.10 Connectors for Gas Appliances
- CSA 6.27 Connectors for Outdoor Appliances and Manufactured
- Meets the requirements of CSA B149.1 National Gas and Propane Installation Code
- CSA 6.30 Excess Flow Valves for Natural and LP Gas with Pressures of Up to 5 psig



## Sizing and Model Selection

| Model No. | Connection |               | Rated Trip Flow Rate(kBtu/hr) |             |               | Maximum Flow Capacity(kBtu/hr) |             |               |
|-----------|------------|---------------|-------------------------------|-------------|---------------|--------------------------------|-------------|---------------|
|           | Inlet      | Outlet        | Horizontal                    | Vertical Up | Vertical Down | Horizontal                     | Vertical Up | Vertical Down |
| G014-10A  | 1/2" MIP   | 3/8" OD Flare | 107 @ 0.94                    | 113 @ 0.99  | 103 @ 0.90    | 84 @ 0.50                      | 83 @ 0.50   | 84 @ 0.50     |
| G014-12A  | 3/8" MIP   | 3/8" OD Flare |                               |             |               |                                |             |               |
| G014-11A  | 1/2" FIP   | 3/8" OD Flare |                               |             |               |                                |             |               |
| G014-13A  | 3/8" FIP   | 3/8" OD Flare |                               |             |               |                                |             |               |
| G038-10A  | 1/2" MIP   | 1/2" OD Flare | 166 @ 0.87                    | 149 @ 1.29  | 139 @ 0.63    | 133 @ 0.50                     | 97 @ 0.50   | 123 @ 0.50    |
| G038-12A  | 3/8" MIP   | 1/2" OD Flare |                               |             |               |                                |             |               |
| G038-11A  | 1/2" FIP   | 1/2" OD Flare |                               |             |               |                                |             |               |
| G038-13A  | 3/8" FIP   | 1/2" OD Flare |                               |             |               |                                |             |               |
| G012-10A  | 1/2" MIP   | 5/8" OD Flare | 202 @ 1.39                    | 214 @ 1.24  | 178 @ 0.97    | 121 @ 0.50                     | 105 @ 0.50  | 133 @ 0.50    |
| G012-14A  | 3/4" MIP   | 5/8" OD Flare |                               |             |               |                                |             |               |
| G012-11A  | 1/2" FIP   | 5/8" OD Flare |                               |             |               |                                |             |               |
| G012-15A  | 3/4" FIP   | 5/8" OD Flare |                               |             |               |                                |             |               |

- Rated Trip Flow and Max Flow Capacity values are kBtu/max. "w.c PD (natural gas.0.64 s.g., 1000 BTU/cu.ft.)
- A minimum of 5" w.c inlet pressure is required with a maximum inlet pressure of 14" w.c. (1/2 psig)
- Operating temperature range.-20°F ~ 150°F (-29°C ~ 66°C)
- EFV type: EFVNB
- Installation orientation: Multi-position (horizontal, vertical up, vertical down)



## Certificate of Compliance

**Certificate:** 70056507 (238420)

**Master Contract:** 238420

**Project:** 70081678

**Date Issued:** 2016-08-09

**Issued to:** Kofulso Co., Ltd.  
377-8 Gumgok-Dong, Seo-Gu  
Inchon City,  
SOUTH KOREA  
**Attention:** Steven Cho

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



**Issued by:** *James Sekerak*  
James Sekerak

### **PRODUCTS**

CLASS - C337187 - VALVES (GAS)-Excess Flow-Certified to U.S. Standards  
CLASS - C337107 - VALVES (GAS)-Excess Flow

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

**For Use With Natural and Propane Gas**  
**For use with Natural and Liquefied Petroleum Gases**

**Trade Name: GASTOP**

| <b><u>Model</u></b> | <b><u>Pressure Rating</u></b> | <b><u>Inlet</u></b> | <b><u>Outlet</u></b>             |
|---------------------|-------------------------------|---------------------|----------------------------------|
| G012-10V            | 1/2 psig                      | 1/2"MIP             | 5/8" OD (15/16"-16 UNF-2A) flare |
| G012-11V            | 1/2 psig                      | 1/2"FIP             | 5/8" OD (15/16"-16 UNF-2A) flare |
| G012-14V            | 1/2 psig                      | 3/4"MIP             | 5/8" OD (15/16"-16 UNF-2A) flare |
| G012-15V            | 1/2 psig                      | 3/4"FIP             | 5/8" OD (15/16"-16 UNF-2A) flare |
| G014-10V            | 1/2 psig                      | 1/2"MIP             | 3/8"OD (5/8"-18 UNF-2A) flare    |
| G014-11V            | 1/2 psig                      | 1/2"FIP             | 3/8"OD (5/8"-18 UNF-2A) flare    |

# Stainless Steel Flexible **Gas Connectors**



## Parts Numbering System

EFGC - 012 - SS - 10A 10 - 12

TUBE ID

COATING

EFV

FITTINGS

LENGTH

### TUBE ID

| Part# | Size (ID)         | Thread    |
|-------|-------------------|-----------|
| 014   | 1/4" ID (3/8" OD) | 5/8"-18   |
| 038   | 3/8" ID (1/2" OD) | 3/4"-16   |
| 012   | 1/2" ID (5/8" OD) | 15/16"-16 |
| 034   | 3/4" ID (1" OD)   | 1-1/8"-16 |

### COATING

| Part# |                                         |
|-------|-----------------------------------------|
| SS    | Uncoated Stainless Steel 304            |
| YE    | Yellow Epoxy Coated Stainless Steel 304 |
| BE    | Black Epoxy Coated Stainless Steel 304  |

### ADAPTERS/ VALVES

| Part# | Size (ID)    |
|-------|--------------|
| 10A   | 1/2" MIP EFV |
| 11A   | 1/2" FIP EFV |
| 12A   | 3/8" MIP EFV |
| 13A   | 3/8" FIP EFV |
| 14A   | 3/4" MIP EFV |

### LENGTH

| Part# | Size (ID) | Part# |
|-------|-----------|-------|
| 10    | 1/2" MIP  | 12"   |
| 11    | 1/2" FIP  | 18"   |
| 12    | 3/8" MIP  | 24"   |
| 13    | 3/8" FIP  | 30"   |
| 14    | 3/4" MIP  | 36"   |
|       |           | 48"   |
|       |           | 60"   |
|       |           | 72"   |

Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

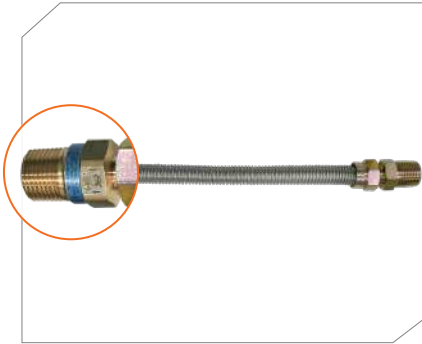
Flexible  
Sprinkler  
Drops

# Stainless Steel Flexible **Gas Connectors**

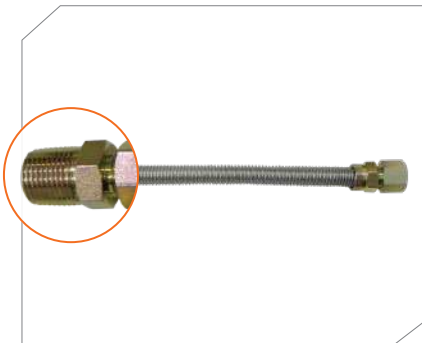


## 014-SS Series Connector with Fittings / EFV

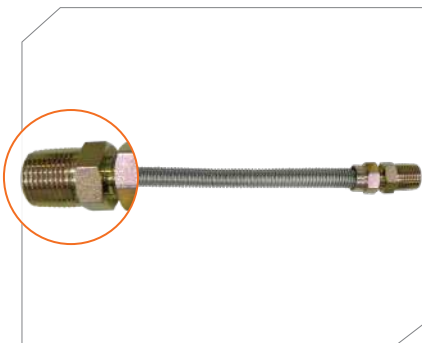
- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



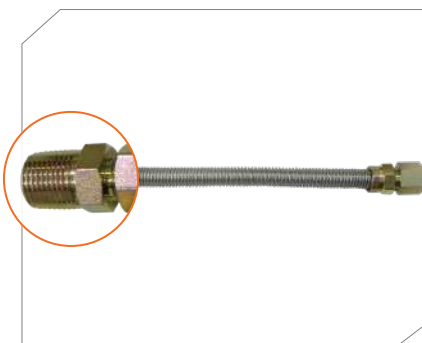
| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-SS-10A10-12 | 1/2" M.EFV x 1/2" MIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A10-18 | 1/2" M.EFV x 1/2" MIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A10-24 | 1/2" M.EFV x 1/2" MIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A10-30 | 1/2" M.EFV x 1/2" MIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A10-36 | 1/2" M.EFV x 1/2" MIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A10-48 | 1/2" M.EFV x 1/2" MIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A10-60 | 1/2" M.EFV x 1/2" MIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A10-72 | 1/2" M.EFV x 1/2" MIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-SS-10A11-12 | 1/2" M.EFV x 1/2" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A11-18 | 1/2" M.EFV x 1/2" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A11-24 | 1/2" M.EFV x 1/2" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A11-30 | 1/2" M.EFV x 1/2" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A11-36 | 1/2" M.EFV x 1/2" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A11-48 | 1/2" M.EFV x 1/2" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A11-60 | 1/2" M.EFV x 1/2" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A11-72 | 1/2" M.EFV x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-SS-10A12-12 | 1/2" M.EFV x 3/8" MIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A12-18 | 1/2" M.EFV x 3/8" MIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A12-24 | 1/2" M.EFV x 3/8" MIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A12-30 | 1/2" M.EFV x 3/8" MIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A12-36 | 1/2" M.EFV x 3/8" MIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A12-48 | 1/2" M.EFV x 3/8" MIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A12-60 | 1/2" M.EFV x 3/8" MIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A12-72 | 1/2" M.EFV x 3/8" MIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-SS-10A13-12 | 1/2" M.EFV x 3/8" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A13-18 | 1/2" M.EFV x 3/8" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A13-24 | 1/2" M.EFV x 3/8" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A13-30 | 1/2" M.EFV x 3/8" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A13-36 | 1/2" M.EFV x 3/8" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A13-48 | 1/2" M.EFV x 3/8" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A13-60 | 1/2" M.EFV x 3/8" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-SS-10A13-72 | 1/2" M.EFV x 3/8" FIP, 72" | EA  |       | 12       |

# Stainless Steel Flexible **Gas** Connectors

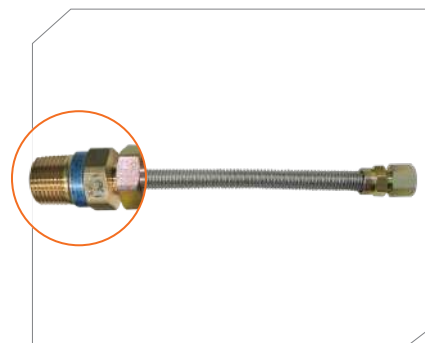


## 014-SS Series Connector with Fittings / EFV

- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-12 | 3/8" M.EFV x 3/8" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-18 | 3/8" M.EFV x 3/8" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-24 | 3/8" M.EFV x 3/8" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-30 | 3/8" M.EFV x 3/8" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-36 | 3/8" M.EFV x 3/8" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-48 | 3/8" M.EFV x 3/8" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-60 | 3/8" M.EFV x 3/8" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-72 | 3/8" M.EFV x 3/8" FIP, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

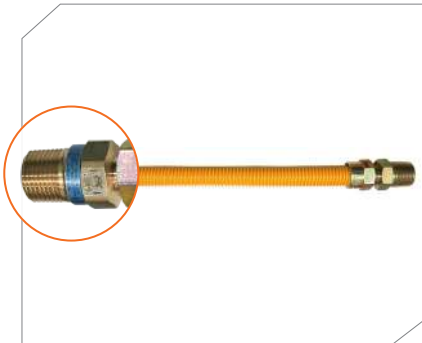
Flexible  
Sprinkler  
Drops

# Stainless Steel Flexible **Gas Connectors**

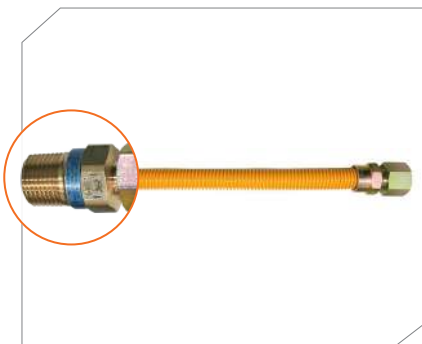


## 014-YE Series Connector with Fittings / EFV

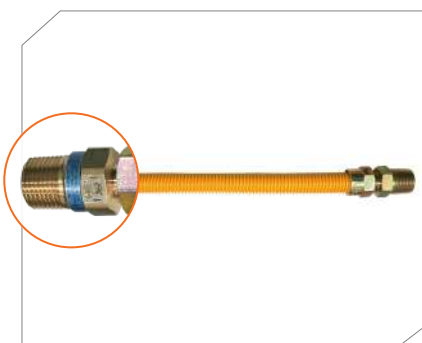
- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



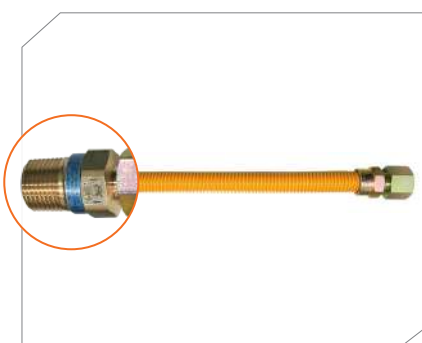
| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-YE-10A10-12 | 1/2" M.EFV x 1/2" MIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A10-18 | 1/2" M.EFV x 1/2" MIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A10-24 | 1/2" M.EFV x 1/2" MIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A10-30 | 1/2" M.EFV x 1/2" MIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A10-36 | 1/2" M.EFV x 1/2" MIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A10-48 | 1/2" M.EFV x 1/2" MIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A10-60 | 1/2" M.EFV x 1/2" MIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A10-72 | 1/2" M.EFV x 1/2" MIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-YE-10A11-12 | 1/2" M.EFV x 1/2" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A11-18 | 1/2" M.EFV x 1/2" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A11-24 | 1/2" M.EFV x 1/2" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A11-30 | 1/2" M.EFV x 1/2" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A11-36 | 1/2" M.EFV x 1/2" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A11-48 | 1/2" M.EFV x 1/2" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A11-60 | 1/2" M.EFV x 1/2" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A11-72 | 1/2" M.EFV x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-YE-10A12-12 | 1/2" M.EFV x 3/8" MIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A12-18 | 1/2" M.EFV x 3/8" MIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A12-24 | 1/2" M.EFV x 3/8" MIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A12-30 | 1/2" M.EFV x 3/8" MIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A12-36 | 1/2" M.EFV x 3/8" MIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A12-48 | 1/2" M.EFV x 3/8" MIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A12-60 | 1/2" M.EFV x 3/8" MIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A12-72 | 1/2" M.EFV x 3/8" MIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-YE-10A13-12 | 1/2" M.EFV x 3/8" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A13-18 | 1/2" M.EFV x 3/8" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A13-24 | 1/2" M.EFV x 3/8" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A13-30 | 1/2" M.EFV x 3/8" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A13-36 | 1/2" M.EFV x 3/8" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A13-48 | 1/2" M.EFV x 3/8" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A13-60 | 1/2" M.EFV x 3/8" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-YE-10A13-72 | 1/2" M.EFV x 3/8" FIP, 72" | EA  |       | 12       |

# Stainless Steel Flexible **Gas** Connectors

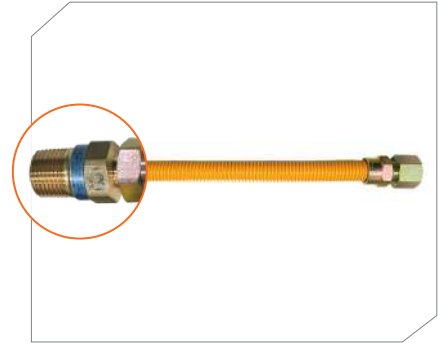


## 014-YE Series Connector with Fittings / EFV

- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-12 | 3/8" M.EFV x 3/8" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-18 | 3/8" M.EFV x 3/8" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-24 | 3/8" M.EFV x 3/8" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-30 | 3/8" M.EFV x 3/8" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-36 | 3/8" M.EFV x 3/8" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-48 | 3/8" M.EFV x 3/8" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-60 | 3/8" M.EFV x 3/8" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-SS-12A13-72 | 3/8" M.EFV x 3/8" FIP, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

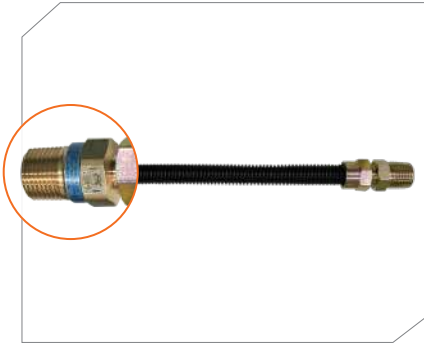
Flexible  
Sprinkler  
Drops

# Stainless Steel Flexible **Gas Connectors**

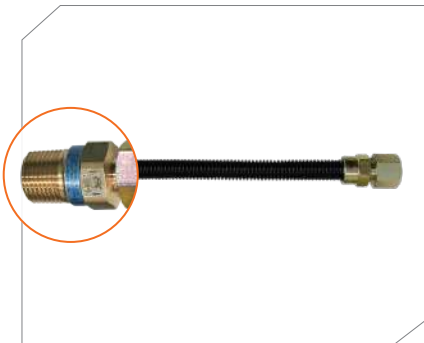


## 014-BE Series Connector with Fittings / EFV

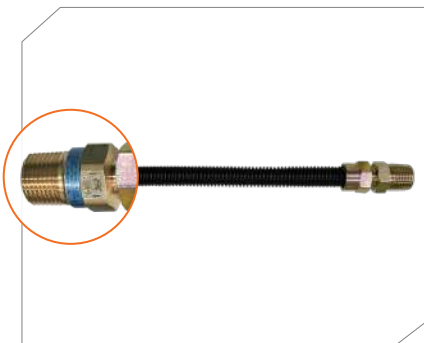
- Tube : Stainless Steel
- Coating : Black Epoxy
- Fitting : Zinc-Plated Steel S45C
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



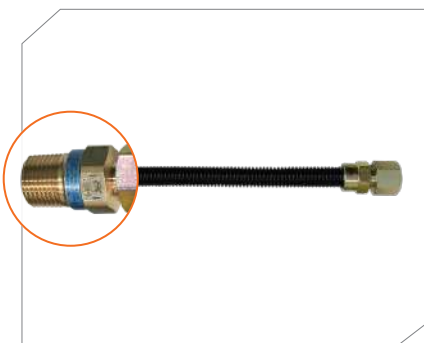
| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-BE-10A10-12 | 1/2" M.EFV x 1/2" MIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A10-18 | 1/2" M.EFV x 1/2" MIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A10-24 | 1/2" M.EFV x 1/2" MIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A10-30 | 1/2" M.EFV x 1/2" MIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A10-36 | 1/2" M.EFV x 1/2" MIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A10-48 | 1/2" M.EFV x 1/2" MIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A10-60 | 1/2" M.EFV x 1/2" MIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A10-72 | 1/2" M.EFV x 1/2" MIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-BE-10A11-12 | 1/2" M.EFV x 1/2" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A11-18 | 1/2" M.EFV x 1/2" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A11-24 | 1/2" M.EFV x 1/2" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A11-30 | 1/2" M.EFV x 1/2" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A11-36 | 1/2" M.EFV x 1/2" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A11-48 | 1/2" M.EFV x 1/2" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A11-60 | 1/2" M.EFV x 1/2" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A11-72 | 1/2" M.EFV x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-BE-10A12-12 | 1/2" M.EFV x 3/8" MIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A12-18 | 1/2" M.EFV x 3/8" MIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A12-24 | 1/2" M.EFV x 3/8" MIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A12-30 | 1/2" M.EFV x 3/8" MIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A12-36 | 1/2" M.EFV x 3/8" MIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A12-48 | 1/2" M.EFV x 3/8" MIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A12-60 | 1/2" M.EFV x 3/8" MIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A12-72 | 1/2" M.EFV x 3/8" MIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-BE-10A13-12 | 1/2" M.EFV x 3/8" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A13-18 | 1/2" M.EFV x 3/8" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A13-24 | 1/2" M.EFV x 3/8" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A13-30 | 1/2" M.EFV x 3/8" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A13-36 | 1/2" M.EFV x 3/8" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A13-48 | 1/2" M.EFV x 3/8" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A13-60 | 1/2" M.EFV x 3/8" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-BE-10A13-72 | 1/2" M.EFV x 3/8" FIP, 72" | EA  |       | 12       |

# Stainless Steel Flexible **Gas** Connectors

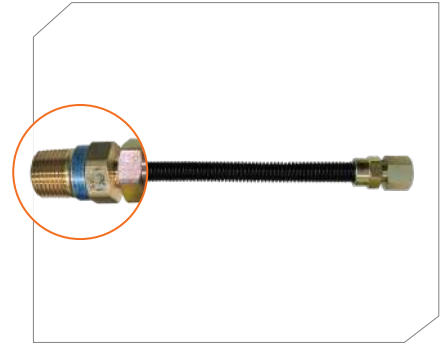


## 014-BE Series Connector with Fittings / EFV

- Tube : Stainless Steel
- Coating : Black Epoxy
- Fitting : Zinc-Plated Steel S45C
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/4" (3/8"OD) | EFGC-014-BE-12A13-12 | 3/8" M.EFV x 3/8" FIP, 12" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-12A13-18 | 3/8" M.EFV x 3/8" FIP, 18" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-12A13-24 | 3/8" M.EFV x 3/8" FIP, 24" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-12A13-30 | 3/8" M.EFV x 3/8" FIP, 30" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-12A13-36 | 3/8" M.EFV x 3/8" FIP, 36" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-12A13-48 | 3/8" M.EFV x 3/8" FIP, 48" | EA  |       | 25       |
| 1/4" (3/8"OD) | EFGC-014-BE-12A13-60 | 3/8" M.EFV x 3/8" FIP, 60" | EA  |       | 12       |
| 1/4" (3/8"OD) | EFGC-014-BE-12A13-72 | 3/8" M.EFV x 3/8" FIP, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

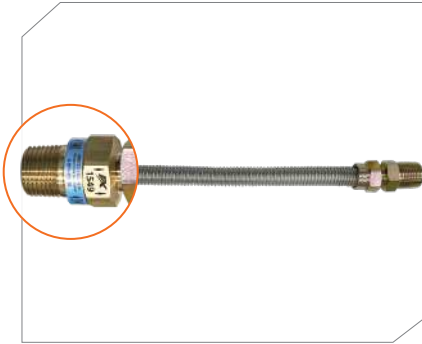
Flexible  
Sprinkler  
Drops

# Stainless Steel Flexible **Gas Connectors**

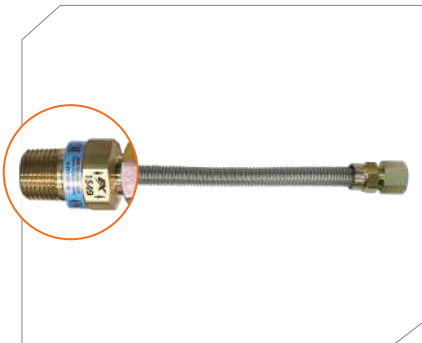


## 038-SS Series Connector with Fittings / EFV

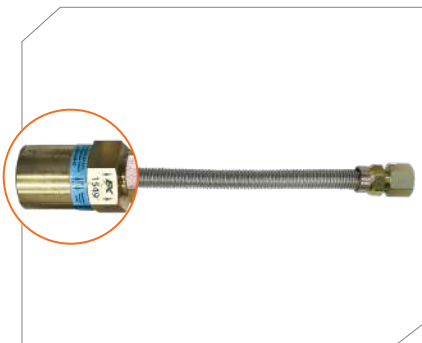
- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



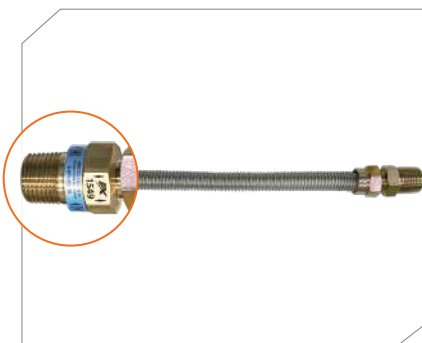
| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-SS-10A10-12 | 1/2" M.EFV x 1/2" MIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A10-18 | 1/2" M.EFV x 1/2" MIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A10-24 | 1/2" M.EFV x 1/2" MIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A10-30 | 1/2" M.EFV x 1/2" MIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A10-36 | 1/2" M.EFV x 1/2" MIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A10-48 | 1/2" M.EFV x 1/2" MIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A10-60 | 1/2" M.EFV x 1/2" MIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A10-72 | 1/2" M.EFV x 1/2" MIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-SS-10A11-12 | 1/2" M.EFV x 1/2" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A11-18 | 1/2" M.EFV x 1/2" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A11-24 | 1/2" M.EFV x 1/2" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A11-30 | 1/2" M.EFV x 1/2" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A11-36 | 1/2" M.EFV x 1/2" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A11-48 | 1/2" M.EFV x 1/2" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A11-60 | 1/2" M.EFV x 1/2" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A11-72 | 1/2" M.EFV x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-SS-11A11-12 | 1/2" F.EFV x 1/2" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-11A11-18 | 1/2" F.EFV x 1/2" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-11A11-24 | 1/2" F.EFV x 1/2" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-11A11-30 | 1/2" F.EFV x 1/2" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-11A11-36 | 1/2" F.EFV x 1/2" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-11A11-48 | 1/2" F.EFV x 1/2" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-11A11-60 | 1/2" F.EFV x 1/2" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-SS-11A11-72 | 1/2" F.EFV x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-SS-10A12-12 | 1/2" M.EFV x 3/8" MIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A12-18 | 1/2" M.EFV x 3/8" MIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A12-24 | 1/2" M.EFV x 3/8" MIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A12-30 | 1/2" M.EFV x 3/8" MIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A12-36 | 1/2" M.EFV x 3/8" MIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A12-48 | 1/2" M.EFV x 3/8" MIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A12-60 | 1/2" M.EFV x 3/8" MIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A12-72 | 1/2" M.EFV x 3/8" MIP, 72" | EA  |       | 12       |

# Stainless Steel Flexible **Gas** Connectors



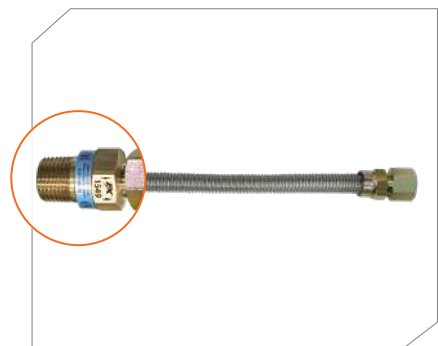
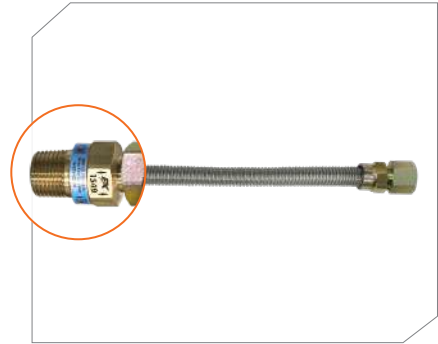
## 038-SS Series Connector with Fittings / EFV

- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-SS-10A13-12 | 1/2" M.EFV x 3/8" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A13-18 | 1/2" M.EFV x 3/8" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A13-24 | 1/2" M.EFV x 3/8" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A13-30 | 1/2" M.EFV x 3/8" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A13-36 | 1/2" M.EFV x 3/8" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A13-48 | 1/2" M.EFV x 3/8" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A13-60 | 1/2" M.EFV x 3/8" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-SS-10A13-72 | 1/2" M.EFV x 3/8" FIP, 72" | EA  |       | 12       |

| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-SS-12A13-12 | 3/8" M.EFV x 3/8" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-12A13-18 | 3/8" M.EFV x 3/8" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-12A13-24 | 3/8" M.EFV x 3/8" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-12A13-30 | 3/8" M.EFV x 3/8" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-12A13-36 | 3/8" M.EFV x 3/8" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-12A13-48 | 3/8" M.EFV x 3/8" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-SS-12A13-60 | 3/8" M.EFV x 3/8" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-SS-12A13-72 | 3/8" M.EFV x 3/8" FIP, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

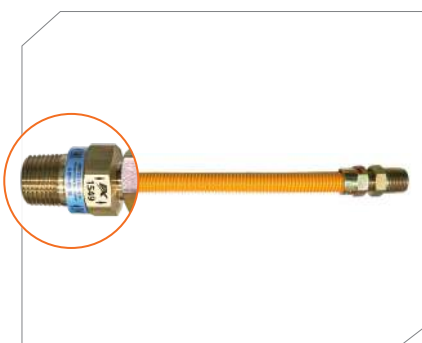
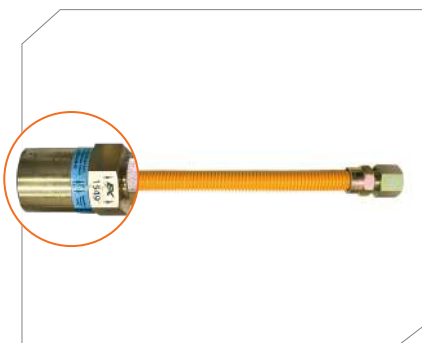
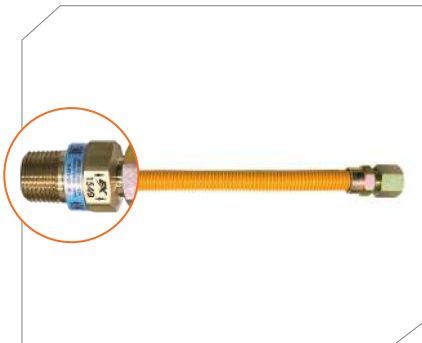
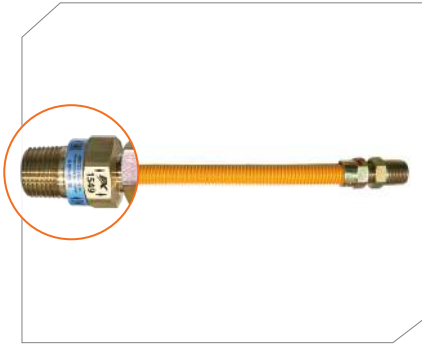
Flexible  
Sprinkler  
Drops

# Stainless Steel Flexible **Gas Connectors**



## 038-YE Series Connector with Fittings / EFV

- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-YE-10A10-12 | 1/2" M.EFV x 1/2" MIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A10-18 | 1/2" M.EFV x 1/2" MIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A10-24 | 1/2" M.EFV x 1/2" MIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A10-30 | 1/2" M.EFV x 1/2" MIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A10-36 | 1/2" M.EFV x 1/2" MIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A10-48 | 1/2" M.EFV x 1/2" MIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A10-60 | 1/2" M.EFV x 1/2" MIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A10-72 | 1/2" M.EFV x 1/2" MIP, 72" | EA  |       | 12       |

| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-YE-10A11-12 | 1/2" M.EFV x 1/2" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A11-18 | 1/2" M.EFV x 1/2" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A11-24 | 1/2" M.EFV x 1/2" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A11-30 | 1/2" M.EFV x 1/2" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A11-36 | 1/2" M.EFV x 1/2" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A11-48 | 1/2" M.EFV x 1/2" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A11-60 | 1/2" M.EFV x 1/2" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A11-72 | 1/2" M.EFV x 1/2" FIP, 72" | EA  |       | 12       |

| ID            | Part #               | Description               | U/M | Price | Qty/ Box |
|---------------|----------------------|---------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-YE-11A11-12 | 1/2" FEFV x 1/2" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-11A11-18 | 1/2" FEFV x 1/2" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-11A11-24 | 1/2" FEFV x 1/2" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-11A11-30 | 1/2" FEFV x 1/2" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-11A11-36 | 1/2" FEFV x 1/2" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-11A11-48 | 1/2" FEFV x 1/2" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-11A11-60 | 1/2" FEFV x 1/2" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-YE-11A11-72 | 1/2" FEFV x 1/2" FIP, 72" | EA  |       | 12       |

| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-YE-10A12-12 | 1/2" M.EFV x 3/8" MIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A12-18 | 1/2" M.EFV x 3/8" MIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A12-24 | 1/2" M.EFV x 3/8" MIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A12-30 | 1/2" M.EFV x 3/8" MIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A12-36 | 1/2" M.EFV x 3/8" MIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A12-48 | 1/2" M.EFV x 3/8" MIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A12-60 | 1/2" M.EFV x 3/8" MIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A12-72 | 1/2" M.EFV x 3/8" MIP, 72" | EA  |       | 12       |

# Stainless Steel Flexible **Gas** Connectors



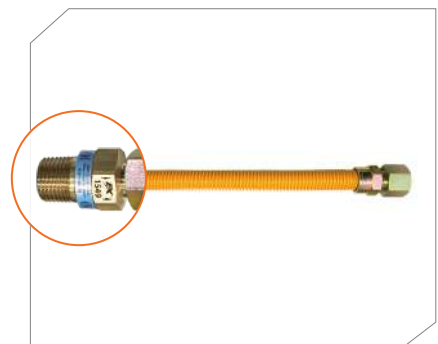
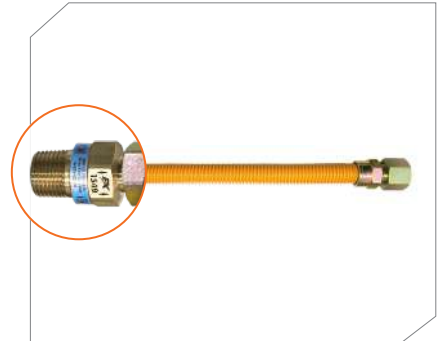
## 038-YE Series Connector with Fittings / EFV

- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-YE-10A13-12 | 1/2" M.EFV x 3/8" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A13-18 | 1/2" M.EFV x 3/8" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A13-24 | 1/2" M.EFV x 3/8" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A13-30 | 1/2" M.EFV x 3/8" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A13-36 | 1/2" M.EFV x 3/8" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A13-48 | 1/2" M.EFV x 3/8" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A13-60 | 1/2" M.EFV x 3/8" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-YE-10A13-72 | 1/2" M.EFV x 3/8" FIP, 72" | EA  |       | 12       |

| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-YE-12A13-12 | 3/8" M.EFV x 3/8" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-12A13-18 | 3/8" M.EFV x 3/8" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-12A13-24 | 3/8" M.EFV x 3/8" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-12A13-30 | 3/8" M.EFV x 3/8" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-12A13-36 | 3/8" M.EFV x 3/8" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-12A13-48 | 3/8" M.EFV x 3/8" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-YE-12A13-60 | 3/8" M.EFV x 3/8" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-YE-12A13-72 | 3/8" M.EFV x 3/8" FIP, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

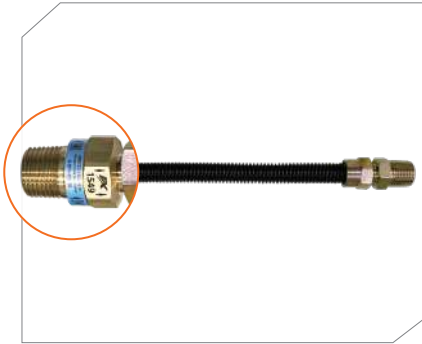
Flexible  
Sprinkler  
Drops

# Stainless Steel Flexible **Gas Connectors**

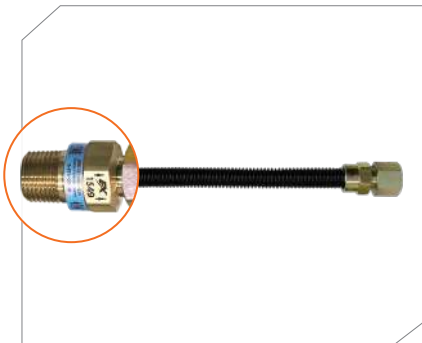


## 038-BE Series Connector with Fittings / EFV

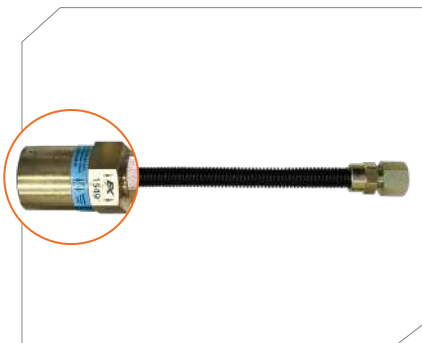
- Tube : Stainless Steel
- Coating : Black Epoxy
- Fitting : Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



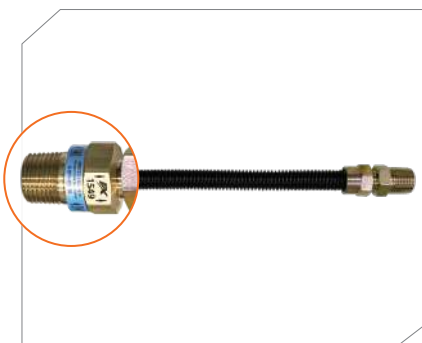
| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-BE-10A10-12 | 1/2" M.EFV x 1/2" MIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A10-18 | 1/2" M.EFV x 1/2" MIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A10-24 | 1/2" M.EFV x 1/2" MIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A10-30 | 1/2" M.EFV x 1/2" MIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A10-36 | 1/2" M.EFV x 1/2" MIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A10-48 | 1/2" M.EFV x 1/2" MIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A10-60 | 1/2" M.EFV x 1/2" MIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A10-72 | 1/2" M.EFV x 1/2" MIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-BE-10A11-12 | 1/2" M.EFV x 1/2" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A11-18 | 1/2" M.EFV x 1/2" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A11-24 | 1/2" M.EFV x 1/2" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A11-30 | 1/2" M.EFV x 1/2" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A11-36 | 1/2" M.EFV x 1/2" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A11-48 | 1/2" M.EFV x 1/2" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A11-60 | 1/2" M.EFV x 1/2" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A11-72 | 1/2" M.EFV x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description               | U/M | Price | Qty/ Box |
|---------------|----------------------|---------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-BE-11A11-12 | 1/2" FEFV x 1/2" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-11A11-18 | 1/2" FEFV x 1/2" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-11A11-24 | 1/2" FEFV x 1/2" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-11A11-30 | 1/2" FEFV x 1/2" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-11A11-36 | 1/2" FEFV x 1/2" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-11A11-48 | 1/2" FEFV x 1/2" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-11A11-60 | 1/2" FEFV x 1/2" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-BE-11A11-72 | 1/2" FEFV x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-BE-10A12-12 | 1/2" M.EFV x 3/8" MIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A12-18 | 1/2" M.EFV x 3/8" MIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A12-24 | 1/2" M.EFV x 3/8" MIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A12-30 | 1/2" M.EFV x 3/8" MIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A12-36 | 1/2" M.EFV x 3/8" MIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A12-48 | 1/2" M.EFV x 3/8" MIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A12-60 | 1/2" M.EFV x 3/8" MIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A12-72 | 1/2" M.EFV x 3/8" MIP, 72" | EA  |       | 12       |

# Stainless Steel Flexible **Gas** Connectors

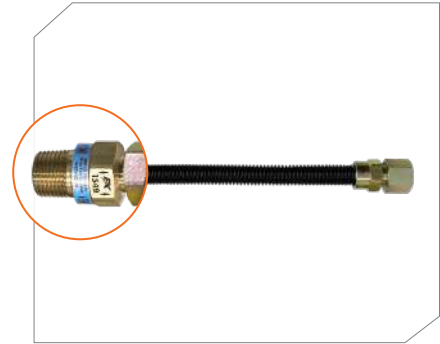


## 038-BE Series Connector with Fittings / EFV

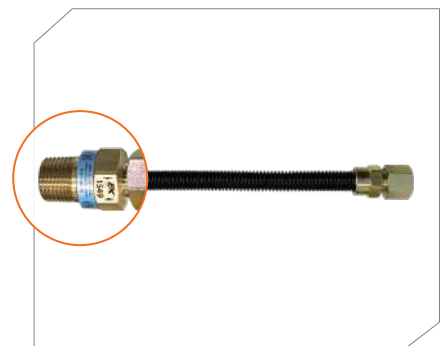
- Tube : Stainless Steel
- Coating : Black Epoxy
- Fitting : Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-BE-10A13-12 | 1/2" M.EFV x 3/8" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A13-18 | 1/2" M.EFV x 3/8" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A13-24 | 1/2" M.EFV x 3/8" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A13-30 | 1/2" M.EFV x 3/8" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A13-36 | 1/2" M.EFV x 3/8" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A13-48 | 1/2" M.EFV x 3/8" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A13-60 | 1/2" M.EFV x 3/8" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-BE-10A13-72 | 1/2" M.EFV x 3/8" FIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 3/8" (1/2"OD) | EFGC-038-BE-12A13-12 | 3/8" M.EFV x 3/8" FIP, 12" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-12A13-18 | 3/8" M.EFV x 3/8" FIP, 18" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-12A13-24 | 3/8" M.EFV x 3/8" FIP, 24" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-12A13-30 | 3/8" M.EFV x 3/8" FIP, 30" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-12A13-36 | 3/8" M.EFV x 3/8" FIP, 36" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-12A13-48 | 3/8" M.EFV x 3/8" FIP, 48" | EA  |       | 25       |
| 3/8" (1/2"OD) | EFGC-038-BE-12A13-60 | 3/8" M.EFV x 3/8" FIP, 60" | EA  |       | 12       |
| 3/8" (1/2"OD) | EFGC-038-BE-12A13-72 | 3/8" M.EFV x 3/8" FIP, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

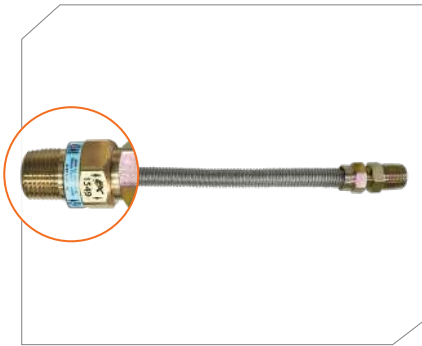
Flexible  
Sprinkler  
Drops

# Stainless Steel Flexible **Gas Connectors**

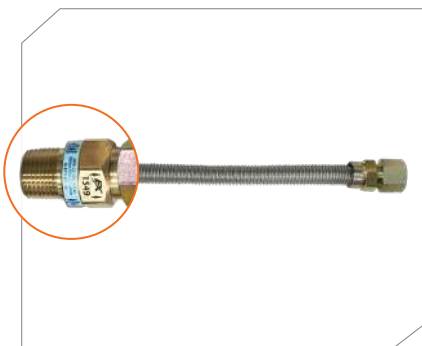


## 012-SS Series Connector with Fittings / EFV

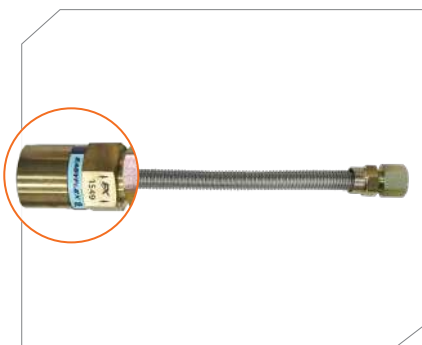
- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C
- 15/16-16 Thread
- 5/8" OD (1/2" ID)



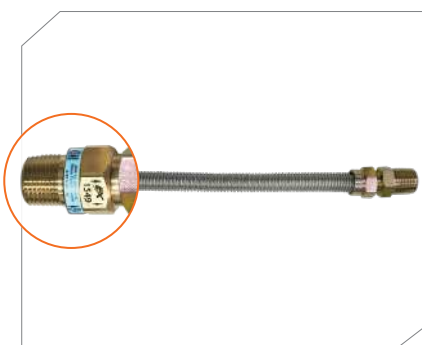
| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-10A10-12 | 1/2" M.EFV x 1/2" MIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A10-18 | 1/2" M.EFV x 1/2" MIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A10-24 | 1/2" M.EFV x 1/2" MIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A10-30 | 1/2" M.EFV x 1/2" MIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A10-36 | 1/2" M.EFV x 1/2" MIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A10-48 | 1/2" M.EFV x 1/2" MIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A10-60 | 1/2" M.EFV x 1/2" MIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A10-72 | 1/2" M.EFV x 1/2" MIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-10A11-12 | 1/2" M.EFV x 1/2" FIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A11-18 | 1/2" M.EFV x 1/2" FIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A11-24 | 1/2" M.EFV x 1/2" FIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A11-30 | 1/2" M.EFV x 1/2" FIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A11-36 | 1/2" M.EFV x 1/2" FIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A11-48 | 1/2" M.EFV x 1/2" FIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A11-60 | 1/2" M.EFV x 1/2" FIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A11-72 | 1/2" M.EFV x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description               | U/M | Price | Qty/ Box |
|---------------|----------------------|---------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-11A11-12 | 1/2" FEFV x 1/2" FIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-11A11-18 | 1/2" FEFV x 1/2" FIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-11A11-24 | 1/2" FEFV x 1/2" FIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-11A11-30 | 1/2" FEFV x 1/2" FIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-11A11-36 | 1/2" FEFV x 1/2" FIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-11A11-48 | 1/2" FEFV x 1/2" FIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-11A11-60 | 1/2" FEFV x 1/2" FIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-11A11-72 | 1/2" FEFV x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-10A14-12 | 1/2" M.EFV x 3/4" MIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A14-18 | 1/2" M.EFV x 3/4" MIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A14-24 | 1/2" M.EFV x 3/4" MIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A14-30 | 1/2" M.EFV x 3/4" MIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A14-36 | 1/2" M.EFV x 3/4" MIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A14-48 | 1/2" M.EFV x 3/4" MIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A14-60 | 1/2" M.EFV x 3/4" MIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A14-72 | 1/2" M.EFV x 3/4" MIP, 72" | EA  |       | 12       |

# Stainless Steel Flexible **Gas** Connectors

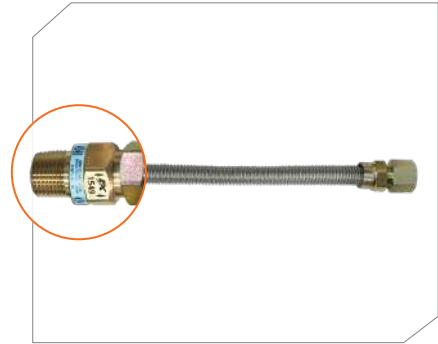


## 012-SS Series Connector with Fittings / EFV

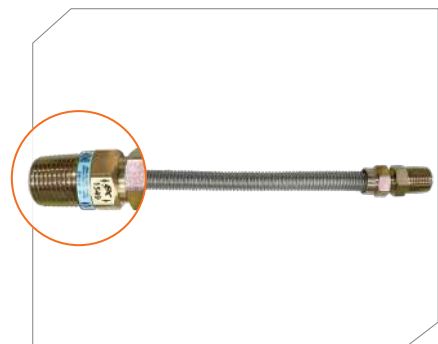
- Tube : Stainless Steel
- Fitting : Zinc-Plated Steel S45C
- 15/16-16 Thread
- 5/8" OD (1/2" ID)



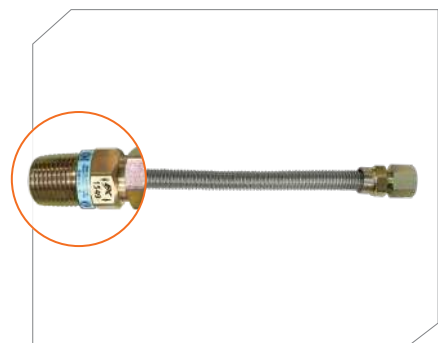
| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-10A15-12 | 1/2" M.EFV x 3/4" FIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A15-18 | 1/2" M.EFV x 3/4" FIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A15-24 | 1/2" M.EFV x 3/4" FIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A15-30 | 1/2" M.EFV x 3/4" FIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A15-36 | 1/2" M.EFV x 3/4" FIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A15-48 | 1/2" M.EFV x 3/4" FIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A15-60 | 1/2" M.EFV x 3/4" FIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-10A15-72 | 1/2" M.EFV x 3/4" FIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-14A14-12 | 3/4" M.EFV x 3/4" MIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-14A14-18 | 3/4" M.EFV x 3/4" MIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-14A14-24 | 3/4" M.EFV x 3/4" MIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-14A14-30 | 3/4" M.EFV x 3/4" MIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-14A14-36 | 3/4" M.EFV x 3/4" MIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-14A14-48 | 3/4" M.EFV x 3/4" MIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-14A14-60 | 3/4" M.EFV x 3/4" MIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-14A14-72 | 3/4" M.EFV x 3/4" MIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-SS-14A15-12 | 3/4" M.EFV x 3/4" FIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-14A15-18 | 3/4" M.EFV x 3/4" FIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-14A15-24 | 3/4" M.EFV x 3/4" FIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-14A15-30 | 3/4" M.EFV x 3/4" FIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-14A15-36 | 3/4" M.EFV x 3/4" FIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-14A15-48 | 3/4" M.EFV x 3/4" FIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-SS-14A15-60 | 3/4" M.EFV x 3/4" FIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-SS-14A15-72 | 3/4" M.EFV x 3/4" FIP, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

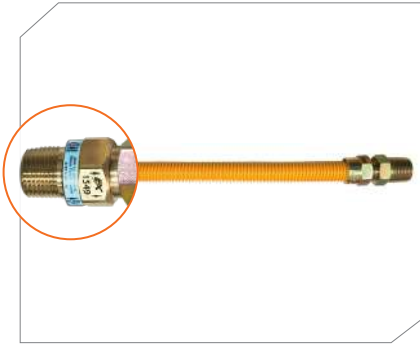
Flexible  
Sprinkler  
Drops

# Stainless Steel Flexible **Gas Connectors**

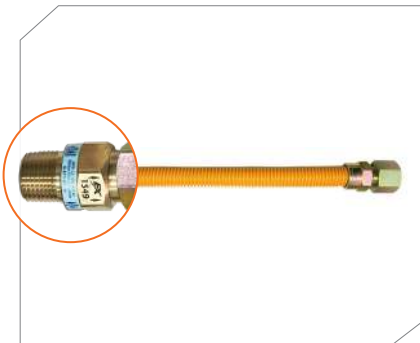


## 012-YE Series Connector with Fittings / EFV

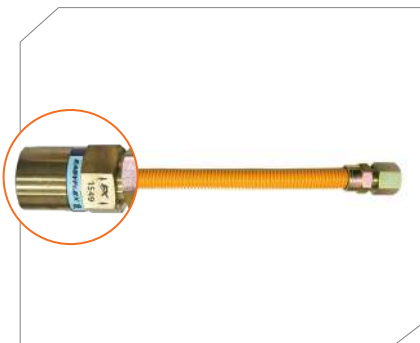
- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C
- 15/16-16 Thread
- 5/8" OD (1/2" ID)



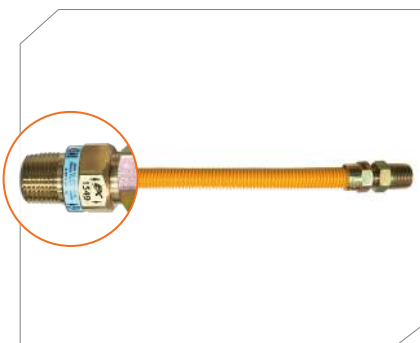
| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-10A10-12 | 1/2" M.EFV x 1/2" MIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A10-18 | 1/2" M.EFV x 1/2" MIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A10-24 | 1/2" M.EFV x 1/2" MIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A10-30 | 1/2" M.EFV x 1/2" MIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A10-36 | 1/2" M.EFV x 1/2" MIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A10-48 | 1/2" M.EFV x 1/2" MIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A10-60 | 1/2" M.EFV x 1/2" MIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A10-72 | 1/2" M.EFV x 1/2" MIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-10A11-12 | 1/2" M.EFV x 1/2" FIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A11-18 | 1/2" M.EFV x 1/2" FIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A11-24 | 1/2" M.EFV x 1/2" FIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A11-30 | 1/2" M.EFV x 1/2" FIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A11-36 | 1/2" M.EFV x 1/2" FIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A11-48 | 1/2" M.EFV x 1/2" FIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A11-60 | 1/2" M.EFV x 1/2" FIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A11-72 | 1/2" M.EFV x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description               | U/M | Price | Qty/ Box |
|---------------|----------------------|---------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-11A11-12 | 1/2" FEFV x 1/2" FIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-11A11-18 | 1/2" FEFV x 1/2" FIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-11A11-24 | 1/2" FEFV x 1/2" FIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-11A11-30 | 1/2" FEFV x 1/2" FIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-11A11-36 | 1/2" FEFV x 1/2" FIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-11A11-48 | 1/2" FEFV x 1/2" FIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-11A11-60 | 1/2" FEFV x 1/2" FIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-11A11-72 | 1/2" FEFV x 1/2" FIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-10A14-12 | 1/2" M.EFV x 3/4" MIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A14-18 | 1/2" M.EFV x 3/4" MIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A14-24 | 1/2" M.EFV x 3/4" MIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A14-30 | 1/2" M.EFV x 3/4" MIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A14-36 | 1/2" M.EFV x 3/4" MIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A14-48 | 1/2" M.EFV x 3/4" MIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A14-60 | 1/2" M.EFV x 3/4" MIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A14-72 | 1/2" M.EFV x 3/4" MIP, 72" | EA  |       | 12       |

# Stainless Steel Flexible **Gas** Connectors

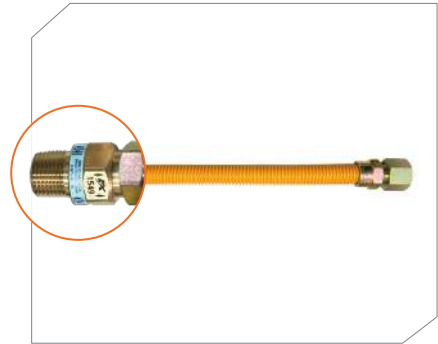


## 012-YE Series Connector with Fittings / EFV

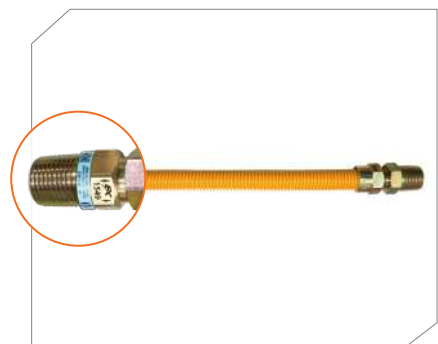
- Tube : Stainless Steel
- Coating : Yellow Epoxy
- Fitting : Zinc-Plated Steel S45C
- 15/16-16 Thread
- 5/8" OD (1/2" ID)



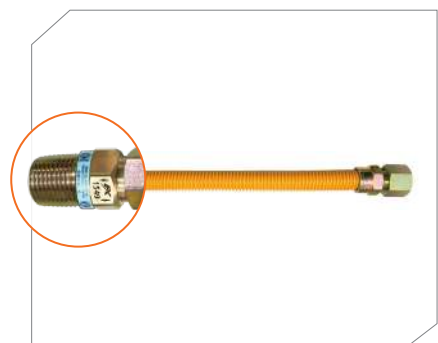
| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-10A15-12 | 1/2" M.EFV x 3/4" FIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A15-18 | 1/2" M.EFV x 3/4" FIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A15-24 | 1/2" M.EFV x 3/4" FIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A15-30 | 1/2" M.EFV x 3/4" FIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A15-36 | 1/2" M.EFV x 3/4" FIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A15-48 | 1/2" M.EFV x 3/4" FIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A15-60 | 1/2" M.EFV x 3/4" FIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-10A15-72 | 1/2" M.EFV x 3/4" FIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-14A14-12 | 3/4" M.EFV x 3/4" MIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-14A14-18 | 3/4" M.EFV x 3/4" MIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-14A14-24 | 3/4" M.EFV x 3/4" MIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-14A14-30 | 3/4" M.EFV x 3/4" MIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-14A14-36 | 3/4" M.EFV x 3/4" MIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-14A14-48 | 3/4" M.EFV x 3/4" MIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-14A14-60 | 3/4" M.EFV x 3/4" MIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-14A14-72 | 3/4" M.EFV x 3/4" MIP, 72" | EA  |       | 12       |



| ID            | Part #               | Description                | U/M | Price | Qty/ Box |
|---------------|----------------------|----------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-YE-14A15-12 | 3/4" M.EFV x 3/4" FIP, 12" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-14A15-18 | 3/4" M.EFV x 3/4" FIP, 18" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-14A15-24 | 3/4" M.EFV x 3/4" FIP, 24" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-14A15-30 | 3/4" M.EFV x 3/4" FIP, 30" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-14A15-36 | 3/4" M.EFV x 3/4" FIP, 36" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-14A15-48 | 3/4" M.EFV x 3/4" FIP, 48" | EA  |       | 25       |
| 1/2" (5/8"OD) | EFGC-012-YE-14A15-60 | 3/4" M.EFV x 3/4" FIP, 60" | EA  |       | 12       |
| 1/2" (5/8"OD) | EFGC-012-YE-14A15-72 | 3/4" M.EFV x 3/4" FIP, 72" | EA  |       | 12       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# Gas Fittings

## 3/8" OD Flare Gas Fittings | Flare Adapter

- Zinc-Plated Steel S45C
- 5/8-18 Thread
- 3/8" OD (1/4" ID)



| ID             | Part #  | Description              | U/M | Price | Qty/Box |
|----------------|---------|--------------------------|-----|-------|---------|
| 1/4" (3/8" OD) | G014-10 | 3/8" OD Flare x 1/2" MIP | EA  |       |         |
| 1/4" (3/8" OD) | G014-12 | 3/8" OD Flare x 3/8" MIP | EA  |       |         |

| ID             | Part #  | Description              | U/M | Price | Qty/Box |
|----------------|---------|--------------------------|-----|-------|---------|
| 1/4" (3/8" OD) | G014-11 | 3/8" OD Flare x 1/2" FIP | EA  |       |         |
| 1/4" (3/8" OD) | G014-13 | 3/8" OD Flare x 3/8" FIP | EA  |       |         |

## 1/2" OD Flare Gas Fittings | Flare Adapter

- Zinc-Plated Steel S45C
- 3/4-16 Thread
- 1/2" OD (3/8" ID)



| ID             | Part #  | Description              | U/M | Price | Qty/Box |
|----------------|---------|--------------------------|-----|-------|---------|
| 3/8" (1/2" OD) | G038-10 | 1/2" OD Flare x 1/2" MIP | EA  |       |         |
| 3/8" (1/2" OD) | G038-12 | 1/2" OD Flare x 3/8" MIP | EA  |       |         |

| ID             | Part #  | Description              | U/M | Price | Qty/Box |
|----------------|---------|--------------------------|-----|-------|---------|
| 3/8" (1/2" OD) | G038-11 | 1/2" OD Flare x 1/2" FIP | EA  |       |         |
| 3/8" (1/2" OD) | G038-13 | 1/2" OD Flare x 3/8" FIP | EA  |       |         |

## 5/8" OD Flare Gas Fittings | Flare Adapter

- Zinc-Plated Steel S45C
- 15/16-16 Thread
- 5/8" OD (1/2" ID)



| ID             | Part #  | Description              | U/M | Price | Qty/Box |
|----------------|---------|--------------------------|-----|-------|---------|
| 1/2" (5/8" OD) | G012-10 | 5/8" OD Flare x 1/2" MIP | EA  |       |         |
| 1/2" (5/8" OD) | G012-14 | 5/8" OD Flare x 3/4" MIP | EA  |       |         |

# Gas Fittings

## 1" OD Flare Gas Fittings | Flare Adapter

- Zinc-Plated Steel S45C
- 1-1/8-16 Thread
- 1" OD (3/4" ID)

| ID           | Part #  | Description              | U/M | Price | Qty/Box |
|--------------|---------|--------------------------|-----|-------|---------|
| 3/4" (1" OD) | G034-14 | 5/8" OD Flare x 3/4" MIP | EA  |       |         |
| 3/4" (1" OD) | G034-16 | 5/8" OD Flare x 1" MIP   | EA  |       |         |
| ID           | Part #  | Description              | U/M | Price | Qty/Box |
| 3/4" (1" OD) | G034-15 | 5/8" OD Flare x 3/4" FIP | EA  |       |         |
| 3/4" (1" OD) | G034-17 | 5/8" OD Flare x 1" FIP   | EA  |       |         |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# Gas Fittings

## 3/8" OD Flare EFV Gas Fittings | Flare Excess Flow Valve



- Zinc-Plated Steel S45C
- 1-1/8-16 Thread
- 3/8" OD (1/4" ID)

| ID             | Part #   | Description                | U/M | Price | Qty/Box |
|----------------|----------|----------------------------|-----|-------|---------|
| 1/4" (3/8" OD) | G014-10A | 3/8" OD Flare x 1/2" M.EFV | EA  |       |         |
| 1/4" (3/8" OD) | G014-12A | 3/8" OD Flare x 3/8" M.EFV | EA  |       |         |

| ID             | Part #   | Description               | U/M | Price | Qty/Box |
|----------------|----------|---------------------------|-----|-------|---------|
| 1/4" (3/8" OD) | G014-11A | 3/8" OD Flare x 1/2" FEFV | EA  |       |         |
| 1/4" (3/8" OD) | G014-13A | 3/8" OD Flare x 3/8" FEFV | EA  |       |         |



## 1/2" OD Flare EFV Gas Fittings | Flare Excess Flow Valve

- Zinc-Plated Steel S45C
- 1-1/8-16 Thread
- 1/2" OD (3/8" ID)

| ID             | Part #   | Description                | U/M | Price | Qty/Box |
|----------------|----------|----------------------------|-----|-------|---------|
| 3/8" (1/2" OD) | G038-10A | 1/2" OD Flare x 1/2" M.EFV | EA  |       |         |
| 3/8" (1/2" OD) | G038-12A | 1/2" OD Flare x 3/8" M.EFV | EA  |       |         |

| ID              | Part #   | Description               | U/M | Price | Qty/Box |
|-----------------|----------|---------------------------|-----|-------|---------|
| 3/8" (1/2" OD)  | G038-11A | 1/2" OD Flare x 1/2" FEFV | EA  |       |         |
| 3/8" (1/2" OD)) | G038-13A | 1/2" OD Flare x 3/8" FEFV | EA  |       |         |



## 5/8" OD Flare Gas Fittings | Flare Excess Flow Valve

- Zinc-Plated Steel S45C
- 1-1/8-16 Thread
- 5/8" OD (1/2" ID)

| ID             | Part #   | Description                | U/M | Price | Qty/Box |
|----------------|----------|----------------------------|-----|-------|---------|
| 1/2" (5/8" OD) | G012-10A | 5/8" OD Flare x 1/2" M.EFV | EA  |       |         |
| 1/2" (5/8" OD) | G012-14A | 5/8" OD Flare x 3/4" M.EFV | EA  |       |         |

| ID             | Part #   | Description               | U/M | Price | Qty/Box |
|----------------|----------|---------------------------|-----|-------|---------|
| 1/2" (5/8" OD) | G012-11A | 5/8" OD Flare x 1/2" FEFV | EA  |       |         |
| 1/2" (5/8" OD) | G012-15A | 5/8" OD Flare x 3/4" FEFV | EA  |       |         |



# Gas Valves

## Straight Ball Valves | FIP x FIP

- Lever Handle
- For use with liquified petroleum, LP gas and air mixtures up to 175 PSI
- Brass Body
- FIP x FIP



| ID             | Part #    | Description                        | U/M | Price | Qty/Box |
|----------------|-----------|------------------------------------|-----|-------|---------|
| 1/2" (5/8" OD) | GV-012-RD | 1/2" FIP x 1/2" FIP, Red Handle    | EA  |       |         |
| 3/4" (1" OD)   | GV-034-RD | 3/4" FIP x 3/4" FIP, Red Handle    | EA  |       |         |
| 1" (1 1/4" OD) | GV-100-RD | 1" FIP x 1" FIP, Red Handle        | EA  |       |         |
| ID             | Part #    | Description                        | U/M | Price | Qty/Box |
| 1/2" (5/8" OD) | GV-012-YE | 1/2" FIP x 1/2" FIP, Yellow Handle | EA  |       |         |
| 3/4" (1" OD)   | GV-034-YE | 3/4" FIP x 3/4" FIP, Yellow Handle | EA  |       |         |
| 1" (1 1/4" OD) | GV-100-YE | 1" FIP x 1" FIP, Yellow Handle     | EA  |       |         |

## Gas Ball Valves | Flare x FIP

- Zinc-Plated Steel S45C
- Lever Handle
- For use with liquefied petroleum, LP gas and air mixtures up to 175 PSI



| ID             | Part #  | Description                               | U/M | Price | Qty/Box |
|----------------|---------|-------------------------------------------|-----|-------|---------|
| 1/4" (3/8" OD) | G014-31 | 3/8" OD Flare x 1/2" FIP                  | EA  |       |         |
| 3/8" (1/2" OD) | G038-31 | 1/2" OD Flare x 1/2" FIP                  | EA  |       |         |
| 1/2" (5/8" OD) | G012-31 | 5/8" OD Flare (15/16-16Thread) x 1/2" FIP | EA  |       |         |
| 1/2" (5/8" OD) | G012-33 | 5/8" OD Flare (15/16-16Thread) x 3/4" FIP | EA  |       |         |

## Gas Angle Valves | Flare x FIP

- Brass Body
- Lever Handle
- For use with liquified petroleum, LP gas and air mixtures up to 175 PSI



| ID             | Part #  | Description                                     | U/M | Price | Qty/Box |
|----------------|---------|-------------------------------------------------|-----|-------|---------|
| 1/2" (5/8" OD) | G012-43 | 5/8" OD Flare (15/16-16Thread) x 3/4" FIP Angle | EA  |       |         |

### Easy to Use Handle

- Handles are ergonomically designed for smooth turns.
- Quarter-turn handle design allows for easy on/off operation.
- The forged brass body eliminates the possibility of leaks typically associated with cast products.
- All valves are 100% leak tested.

Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

A close-up photograph of several yellow gas hoses with stainless steel fittings. The hoses are coiled and arranged in a way that highlights the connectors. One fitting in the foreground has a hexagonal body with a circular logo that reads 'SPC' and 'US'. Another fitting in the background has text that includes '1/2 PSI', '1/4" O.D.', and 'GAS-MATE'. The background is dark, making the yellow hoses stand out.

## *Commercial Food Service Gas Connectors*

Braided Stainless Steel for durability, PVC coated for sanitation,  
and 360° rotational fittings for free movement.



# Commercial Food Service Gas Connectors

## Applications

- Movable Caster-Mounted Gas Appliances
- Stationary Gas Appliances
- Stationary Countertop Gas Appliances

## Benefits

- Braided Stainless Steel Construction
- PVC Coated
- 360° Rotational Ends

## Certifications & Approvals

- ANSI Z21.69 / CSA 6.16 Connectors for Movable Gas Appliances
- A restraining device is required for all movable gas equipment.



## Materials

|         |                                 |
|---------|---------------------------------|
| Tubing  | Stainless Steel 304 (ASTM A240) |
| Braid   | Stainless Steel 304 (ASTM A240) |
| Coating | Yellow or Black PVC             |
| Fitting | Zinc-Plated Steel S45C          |

## Pressure-Temperature

|                             |                                |
|-----------------------------|--------------------------------|
| Rated Operating Temperature | -40°F to 150°F (-40°C to 65°C) |
| Rated Pressure              | 0.5 psi                        |

Gas Connectors

Commercial Gas Connectors

Gas Line System

Gas CSST Fittings

Water Line System

Water CSST Fittings

Braided Water Connectors

Supply stop Valve

Water Heater Connectors

Isolation Valves

Thermal Expansion Tanks

No-Hub Couplings

Flexible Sprinkler Drops

## Commercial Food Service **Gas Connectors**



# Certificate of Compliance

Certificate: 1992377

Master Contract: 238420

Project: 1992377

Date Issued: 2008/02/19

Issued to: **Kofulso Co., Ltd.**  
377-8 Gungok-Dong, Seo-Gu  
Inchon City,  
South Korea

*The products listed below are eligible to bear the CSA Mark shown  
with adjacent indicators 'C' and 'US'*



Issued by: Russell Dworznik

Authorized by: Trevor Perera, Manager of  
Certification Services

*Trevor Perera*

### PRODUCTS

- CLASS 3303 86** - CONNECTORS (GAS) - Gas Appliances and - Manufactured  
Homes-Certified to US Standards
- CLASS 3303 06** - CONNECTORS (GAS) - Outdoor Gas Appliances - and Manufactured  
Homes
- CLASS 3303 85** - CONNECTORS (GAS) - For Moveable Appliances-Certified to U.S.  
Standards
- CLASS 3303 05** - CONNECTORS (GAS) - For Moveable Appliances
- CLASS 3303 81** - CONNECTORS (GAS) - Connectors For Gas Appliances-Certified to U.S.  
Standards
- CLASS 3303 01** - CONNECTORS (GAS) - Connectors For Gas Appliances

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator, NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.

# Commercial Food Service **Gas Connectors**

## Commercial Food Service Gas Connector Installation Guide

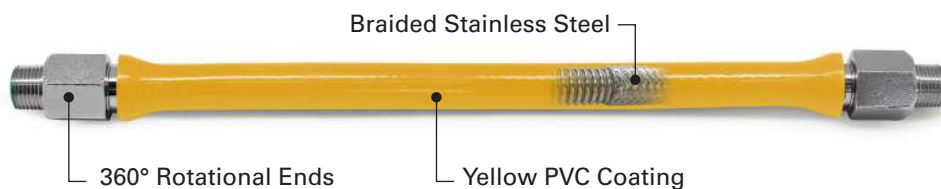
Please read the following instructions carefully. Failure to read, comply, and follow these instructions may result in severe injury or death.

### CAUTIONS AND WARNINGS

- The installation **MUST BE** compliant with the National Fuel Gas Code (ANSI Z223.1) and local gas installation codes.
- Installation and testing **MUST BE** performed by qualified personnel. Make sure that the gas supply and all the appliance gas valves are shut-off before connecting to the gas supply.
- Gas outlet must be in the same room as the appliance and the connector must not be concealed within or run through any wall, floor, or partition. Gas connections shall not be in contact with surfaces of temperatures in excess of 110°C (230°F), sharp edges or wiring.
- The final assembly must be tested for leaks after installation. Open flame or any sources of ignition must not be used for the testing. Leak test solutions may cause corrosion and **WATER RINSE AFTER TESTING**. To check leakage on the gas supply piping system, see National Fuel Gas Code Z223.1, NFPA 54 or CSA B149.1, Natural Gas and Propane Gas Installation Code. If odor of gas is detected, turn off the gas to the appliance and have a qualified professional fix the source of the leak.
- **STRONG CLEANING SOLUTIONS OR CHEMICAL SUBSTANCES MUST NOT COME IN CONTACT WITH THE CONNECTOR.** These may include acids, solvents, fluxes with zinc chloride, or other chlorinated chemicals. In case of contact, rinse down the connector with water and dry thoroughly.
- An accessible manual shut-off valve must be installed at the outlet of the gas supply piping system upstream of the connector.
- Contact with foreign objects, wiring or substances be avoided.
- Avoid movement after installation on fixed appliances.
- Bending or flexing of connectors on moveable appliances (e.g. those factory equipped with casters) should be limited to pulling and pushing the appliance in or out for cleaning or maintenance.
- Connectors are for use only on piping systems having fuel gas pressure not in excess of 1/2 psi (3.5 kPa). Flexible connections are suitable for use with 1st, 2nd and 3rd family gases only on piping systems operating at a pressure not exceeding 50 mbar.
- **DO NOT REUSE ON ANOTHER APPLIANCE OR AT ANOTHER LOCATION.**  
In addition to the main gas supply shut-off valve, an approved accessible manual gas shut-off valve **MUST BE** installed upstream of the gas connector (within 6 feet of the equipment it serves). Each piece of equipment must have its own shut-off valve.
- **DO NOT USE** the quick-disconnect coupling as the primary gas Shut-off.
- The quick disconnect **MUST BE INSTALLED** so that the gas enters the coupling half and exits the nipple half. You must follow the flow direction arrows that are permanently marked on the coupling.
- **NEVER INSERT** screwdrivers, probes, etc. into the quick disconnect coupling. The valve seat can be damaged or forced off center.
- The connector shall not be kinked, twisted, or torqued when installed.
- Make sure that all fittings are tightened properly. When installing an Easyflex® connector, two 14 inch adjustable wrenches (minimum size) are recommended as installation tools.
- Adequate means must be provided to limit the movement of castered appliances. A restraining device is **REQUIRED** for all types of moveable gas appliances.
- When installing an equipment line-up with dual fed front manifold gas inlets, **DO NOT** use a quick-disconnect coupling.
- Appliance **MUST BE** disconnected prior to maximum movement. **DO NOT OVEREXTEND** the gas connector assembly.

## Commercial Food Service **Gas Connectors**

### Movable Appliance Gas Connectors



#### Specifications

- CSSTubing : Stainless Steel 304 (ASTM A 240)
- Fittings : Zinc-Plated Steel S45C
- Braid : Stainless Steel 304 (ASTM A 240)
- Coating : Non-Flammable Yellow PVC
- Max. Operating Pressure : 0.5 psi
- For Indoor Use Only

#### Certifications & Approvals

ANSI Z 21.69 / CSA 6.16 Connectors for Movable Gas Appliances.  
A restraining device is required for all movable gas equipment.



#### Connector Minimum Flow Capacity

Straight Length Capacity (BTU/Hr., 0.64 SpGr., 1,000 BTU per cubic ft. at 0.5" W.C. pressure drop)

| Series | ID   | OD     | 12"     | 18"     | 24"     | 30"     | 36"     | 48"     | 60"     | 72"     |
|--------|------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 012    | 1/2" | 5/8"   | 180,000 | 164,200 | 150,000 | 136,000 | 125,000 | 106,000 | 93,200  | 86,000  |
| 034    | 3/4" | 1"     | -       | -       | 290,900 | 270,500 | 255,900 | 215,900 | 197,400 | 173,900 |
| 100    | 1"   | 1 1/4" | -       | -       | 581,800 | 545,200 | 515,900 | 442,700 | 398,900 | 347,300 |

The above flow capacities are the minimum performance requirement.  
Easyflex Gas Connectors exceed these minimum flow capacity requirements.

# Commercial Food Service **Gas Connectors**

## 012-BJ Series Connector with Rotational Fittings

- Food Service Gas Connector
- Tube : Braided Stainless Steel Construction (ASTM A 240)
- Yellow PVC Coating
- Fittings : Zinc-Plated Steel S45C
- 360° Rotational Ends
- 5/8" OD (1/2" ID)

| ID            | Part #              | Description              | U/M | Price | Qty/ Box |
|---------------|---------------------|--------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-BJ-1010-24 | 1/2" MIP x 1/2" MIP, 24" | EA  |       | 20       |
| 1/2" (5/8"OD) | EFGC-012-BJ-1010-36 | 1/2" MIP x 1/2" MIP, 36" | EA  |       | 20       |
| 1/2" (5/8"OD) | EFGC-012-BJ-1010-48 | 1/2" MIP x 1/2" MIP, 48" | EA  |       | 20       |
| 1/2" (5/8"OD) | EFGC-012-BJ-1010-60 | 1/2" MIP x 1/2" MIP, 60" | EA  |       | 20       |



## 034-BJ Series Connector with Rotational Fittings

- Food Service Gas Connector
- Tube : Braided Stainless Steel Construction (ASTM A 240)
- Yellow PVC Coating
- Fittings : Zinc-Plated Steel S45C
- 360° Rotational Ends
- 1" OD (3/4" ID)

| ID          | Part #              | Description              | U/M | Price | Qty/ Box |
|-------------|---------------------|--------------------------|-----|-------|----------|
| 3/4" (1"OD) | EFGC-034-BJ-1414-24 | 3/4" MIP x 3/4" MIP, 24" | EA  |       | 20       |
| 3/4" (1"OD) | EFGC-034-BJ-1414-36 | 3/4" MIP x 3/4" MIP, 36" | EA  |       | 20       |
| 3/4" (1"OD) | EFGC-034-BJ-1414-48 | 3/4" MIP x 3/4" MIP, 48" | EA  |       | 20       |
| 3/4" (1"OD) | EFGC-034-BJ-1414-60 | 3/4" MIP x 3/4" MIP, 60" | EA  |       | 20       |
| 3/4" (1"OD) | EFGC-034-BJ-1414-72 | 3/4" MIP x 3/4" MIP, 72" | EA  |       | 20       |



## 100-BJ Series Connector with Rotational Fittings

- Food Service Gas Connector
- Tube : Braided Stainless Steel Construction (ASTM A 240)
- Yellow PVC Coating
- Fittings : Zinc-Plated Steel S45C
- 360° Rotational Ends
- 1-1/4" OD (1" ID)

| ID            | Part #              | Description          | U/M | Price | Qty/ Box |
|---------------|---------------------|----------------------|-----|-------|----------|
| 1" (1-1/4"OD) | EFGC-100-BJ-1616-24 | 1" MIP x 1" MIP, 24" | EA  |       | 20       |
| 1" (1-1/4"OD) | EFGC-100-BJ-1616-36 | 1" MIP x 1" MIP, 36" | EA  |       | 20       |
| 1" (1-1/4"OD) | EFGC-100-BJ-1616-48 | 1" MIP x 1" MIP, 48" | EA  |       | 20       |
| 1" (1-1/4"OD) | EFGC-100-BJ-1616-60 | 1" MIP x 1" MIP, 60" | EA  |       | 20       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

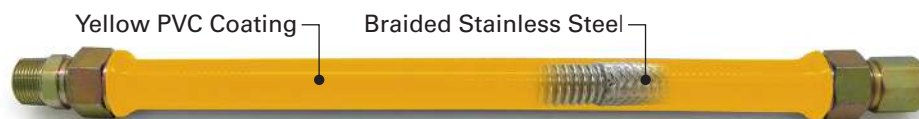
Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

## Commercial Food Service **Gas Connectors**

### Countertop Appliance Gas Connectors



#### Specifications

- CSST Tubing : Stainless Steel 304 (ASTM A 240)
- Fittings : Zinc-Plated Steel S45C
- Braid : Stainless Steel 304 (ASTM A 240)
- Coating : Yellow PVC

#### Certifications & Approvals

ANSI Z 21.24 / CSA 6.10

ANSI Z 21.75 / CSA 6.27



#### Connector Minimum Flow Capacity

Straight Length Capacity (BTU/Hr., 0.64 SpGr., 1,000 BTU per cubic ft. at 0.5" W.C. pressure drop)

| Series | ID   | OD   | 12"     | 18"     | 24"     | 30"     | 36"     | 48"     | 60"     | 72"     |
|--------|------|------|---------|---------|---------|---------|---------|---------|---------|---------|
| 014    | 1/4" | 3/8" | 48,000  | 43,800  | 40,000  | 36,400  | 33,400  | 28,300  | 24,900  | 23,100  |
| 038    | 3/8" | 1/2" | 102,000 | 93,100  | 85,000  | 77,100  | 71,100  | 60,500  | 53,200  | 49,100  |
| 012    | 1/2" | 5/8" | 180,000 | 164,200 | 150,000 | 136,000 | 125,000 | 106,000 | 93,200  | 86,000  |
| 034    | 3/4" | 1"   | 290,900 | 290,900 | 290,900 | 270,500 | 255,900 | 215,000 | 197,400 | 173,900 |

The above flow capacities are the minimum performance requirement per ANSI Z 21.24/ CSA 6.10 and ANSI Z 21.75/ CSA 6.27

Easyflex Gas Connectors exceed these minimum flow capacity requirements.

# Commercial Food Service **Gas Connectors**

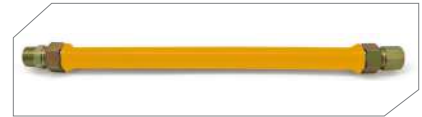
## 012-BJC Series Connector with Fittings

- Tube : Braided Stainless Steel Construction
- Yellow PVC Coating
- Fitting : Zinc-Plated Steel S45C
- 15/16-16 Thread
- 5/8" OD (1/2" ID)



| ID           | Part #               | Description              | U/M | Price | Qty/ Box |
|--------------|----------------------|--------------------------|-----|-------|----------|
| 1/2"(5/8"OD) | EFGC-012-BJC-1010-24 | 1/2" MIP x 1/2" MIP, 24" | EA  |       | 20       |
| 1/2"(5/8"OD) | EFGC-012-BJC-1010-36 | 1/2" MIP x 1/2" MIP, 36" | EA  |       | 20       |

| ID           | Part #               | Description              | U/M | Price | Qty/ Box |
|--------------|----------------------|--------------------------|-----|-------|----------|
| 1/2"(5/8"OD) | EFGC-012-BJC-1011-24 | 1/2" MIP x 1/2" FIP, 24" | EA  |       | 20       |
| 1/2"(5/8"OD) | EFGC-012-BJC-1011-36 | 1/2" MIP x 1/2" FIP, 36" | EA  |       | 20       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

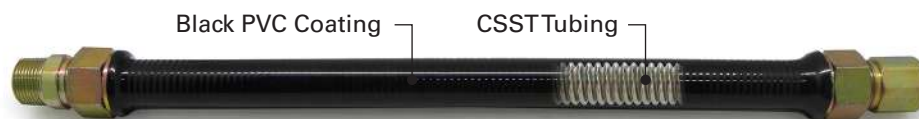
Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

## Commercial Food Service **Gas Connectors**

### Stationary Appliance Gas Connectors



#### Specifications

- CSST Tubing : Stainless Steel 304 (ASTM A 240)
- Fittings : Zinc-Plated Steel S45C
- Coating : Black PVC

#### Certifications & Approvals

ANSI Z 21.24 / CSA 6.10

ANSI Z 21.75 / CSA 6.27



#### Connector Minimum Flow Capacity

Straight Length Capacity (BTU/Hr., 0.64 SpGr., 1,000 BTU per cubic ft. at 0.5" W.C. pressure drop)

| Series | ID   | OD   | 12"     | 18"     | 24"     | 30"     | 36"     | 48"     | 60"     | 72"     |
|--------|------|------|---------|---------|---------|---------|---------|---------|---------|---------|
| 014    | 1/4" | 3/8" | 48,000  | 43,800  | 40,000  | 36,400  | 33,400  | 28,300  | 24,900  | 23,100  |
| 038    | 3/8" | 1/2" | 102,000 | 93,100  | 85,000  | 77,100  | 71,100  | 60,500  | 53,200  | 49,100  |
| 012    | 1/2" | 5/8" | 180,000 | 164,200 | 150,000 | 136,000 | 125,000 | 106,000 | 93,200  | 86,000  |
| 034    | 3/4" | 1"   | 290,900 | 290,900 | 290,900 | 270,500 | 255,900 | 215,900 | 197,400 | 173,900 |

The above flow capacities are the minimum performance requirement per ANSI Z 21.24/ CSA 6.10 and ANSI Z 21.75/ CSA 6.27

Easyflex Gas Connectors exceed these minimum flow capacity requirements.

# Commercial Food Service **Gas Connectors**

## 012-BES Series Connector with Fittings

- Tube : Stainless Steel
- Black PVC Coating
- Fitting : Zinc-Plated Steel S45C
- 15/16-16 Thread
- 5/8" OD (1/2" ID)



| ID            | Part #               | Description              | U/M | Price | Qty/ Box |
|---------------|----------------------|--------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-BES-1010-24 | 1/2" MIP x 1/2" MIP, 24" | EA  |       | 20       |
| 1/2" (5/8"OD) | EFGC-012-BES-1010-36 | 1/2" MIP x 1/2" MIP, 36" | EA  |       | 20       |
| 1/2" (5/8"OD) | EFGC-012-BES-1010-48 | 1/2" MIP x 1/2" MIP, 48" | EA  |       | 20       |
| 1/2" (5/8"OD) | EFGC-012-BES-1010-60 | 1/2" MIP x 1/2" MIP, 60" | EA  |       | 20       |
| 1/2" (5/8"OD) | EFGC-012-BES-1010-72 | 1/2" MIP x 1/2" MIP, 72" | EA  |       | 20       |



| ID            | Part #               | Description              | U/M | Price | Qty/ Box |
|---------------|----------------------|--------------------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-012-BES-1011-24 | 1/2" MIP x 1/2" FIP, 24" | EA  |       | 20       |
| 1/2" (5/8"OD) | EFGC-012-BES-1011-36 | 1/2" MIP x 1/2" FIP, 36" | EA  |       | 20       |
| 1/2" (5/8"OD) | EFGC-012-BES-1011-48 | 1/2" MIP x 1/2" FIP, 48" | EA  |       | 20       |
| 1/2" (5/8"OD) | EFGC-012-BES-1011-60 | 1/2" MIP x 1/2" FIP, 60" | EA  |       | 20       |
| 1/2" (5/8"OD) | EFGC-012-BES-1011-72 | 1/2" MIP x 1/2" FIP, 72" | EA  |       | 20       |



## 034-BES Series Connector with Fittings

- Tube : Stainless Steel
- Black PVC Coating
- Fitting : Zinc-Plated Steel S45C
- 1-1/8-16 Thread
- 1" OD (3/4" ID)



| ID          | Part #               | Description              | U/M | Price | Qty/ Box |
|-------------|----------------------|--------------------------|-----|-------|----------|
| 3/4" (1"OD) | EFGC-034-BES-1414-24 | 3/4" MIP x 3/4" MIP, 24" | EA  |       | 20       |
| 3/4" (1"OD) | EFGC-034-BES-1414-36 | 3/4" MIP x 3/4" MIP, 36" | EA  |       | 20       |
| 3/4" (1"OD) | EFGC-034-BES-1414-48 | 3/4" MIP x 3/4" MIP, 48" | EA  |       | 20       |
| 3/4" (1"OD) | EFGC-034-BES-1414-60 | 3/4" MIP x 3/4" MIP, 60" | EA  |       | 20       |
| 3/4" (1"OD) | EFGC-034-BES-1414-72 | 3/4" MIP x 3/4" MIP, 72" | EA  |       | 20       |



| ID          | Part #               | Description              | U/M | Price | Qty/ Box |
|-------------|----------------------|--------------------------|-----|-------|----------|
| 3/4" (1"OD) | EFGC-034-BES-1415-24 | 3/4" MIP x 3/4" FIP, 24" | EA  |       | 20       |
| 3/4" (1"OD) | EFGC-034-BES-1415-36 | 3/4" MIP x 3/4" FIP, 36" | EA  |       | 20       |
| 3/4" (1"OD) | EFGC-034-BES-1415-48 | 3/4" MIP x 3/4" FIP, 48" | EA  |       | 20       |
| 3/4" (1"OD) | EFGC-034-BES-1415-60 | 3/4" MIP x 3/4" FIP, 60" | EA  |       | 20       |
| 3/4" (1"OD) | EFGC-034-BES-1415-72 | 3/4" MIP x 3/4" FIP, 72" | EA  |       | 20       |



## Commercial Food Service **Gas Connector Kits**

|          |        |                   |                                                                                    |
|----------|--------|-------------------|------------------------------------------------------------------------------------|
| BJ Kit 1 | QD (1) | Quick Disconnect  |  |
|          | EL (2) | Elbow             |                                                                                    |
|          | RC (1) | Restraining Cable |                                                                                    |
|          | V (1)  | Full Port Valve   |                                                                                    |
| BJ Kit 2 | QD (1) | Quick Disconnect  |  |
|          | EL (1) | Elbow             |                                                                                    |
|          | SW (1) | Swivel            |                                                                                    |
|          | RC (1) | Restraining Cable |                                                                                    |
|          | V (1)  | Full Port Valve   |                                                                                    |
| BJ Kit 3 | QD (1) | Quick Disconnect  |  |
|          | SW (2) | Swivel            |                                                                                    |
|          | RC (1) | Restraining Cable |                                                                                    |
|          | V (1)  | Full Port Valve   |                                                                                    |

### Commercial Food Service BJ Series Connector | **Kit 1**

- Food Service BJ Gas Connector (1) / QD(1) / EL(2) / RC(1) / V(1)
- Fittings : Zinc-Plated Steel S45C
- Yellow PVC Coating
- 360° Rotational Ends



| ID            | Part #            | Description   | U/M | Price | Qty/ Box |
|---------------|-------------------|---------------|-----|-------|----------|
| 1/2" (5/8"OD) | EFGC-FS-012-K1-24 | BJ Kit 1, 24" | EA  |       | 1        |
| 1/2" (5/8"OD) | EFGC-FS-012-K1-36 | BJ Kit 1, 36" | EA  |       | 1        |
| 1/2" (5/8"OD) | EFGC-FS-012-K1-48 | BJ Kit 1, 48" | EA  |       | 1        |
| 1/2" (5/8"OD) | EFGC-FS-012-K1-60 | BJ Kit 1, 60" | EA  |       | 1        |

| ID          | Part #            | Description   | U/M | Price | Qty/ Box |
|-------------|-------------------|---------------|-----|-------|----------|
| 3/4" (1"OD) | EFGC-FS-034-K1-24 | BJ Kit 1, 24" | EA  |       | 1        |
| 3/4" (1"OD) | EFGC-FS-034-K1-36 | BJ Kit 1, 36" | EA  |       | 1        |
| 3/4" (1"OD) | EFGC-FS-034-K1-48 | BJ Kit 1, 48" | EA  |       | 1        |
| 3/4" (1"OD) | EFGC-FS-034-K1-60 | BJ Kit 1, 60" | EA  |       | 1        |

| ID            | Part #            | Description   | U/M | Price | Qty/ Box |
|---------------|-------------------|---------------|-----|-------|----------|
| 1" (1-1/4"OD) | EFGC-FS-100-K1-24 | BJ Kit 1, 24" | EA  |       | 1        |
| 1" (1-1/4"OD) | EFGC-FS-100-K1-36 | BJ Kit 1, 36" | EA  |       | 1        |
| 1" (1-1/4"OD) | EFGC-FS-100-K1-48 | BJ Kit 1, 48" | EA  |       | 1        |
| 1" (1-1/4"OD) | EFGC-FS-100-K1-60 | BJ Kit 1, 60" | EA  |       | 1        |

# Commercial Food Service **Gas Connector Kits**

## Commercial Food Service BJ Series Connector | Kit 2

- Food Service BJ Gas Connector(1) / QD(1) / EL(1) / SW(1) / RC(1) / V(1)
- Fittings : Zinc-Plated Steel S45C
- Yellow PVC Coating
- 360° Rotational Ends



| ID          | Part #            | Description   | U/M | Price | Qty/ Box |
|-------------|-------------------|---------------|-----|-------|----------|
| 3/4" (1"OD) | EFGC-FS-034-K2-24 | BJ Kit 2, 24" | EA  |       | 1        |
| 3/4" (1"OD) | EFGC-FS-034-K2-36 | BJ Kit 2, 36" | EA  |       | 1        |
| 3/4" (1"OD) | EFGC-FS-034-K2-48 | BJ Kit 2, 48" | EA  |       | 1        |
| 3/4" (1"OD) | EFGC-FS-034-K2-60 | BJ Kit 2, 60" | EA  |       | 1        |

| ID            | Part #            | Description   | U/M | Price | Qty/ Box |
|---------------|-------------------|---------------|-----|-------|----------|
| 1" (1-1/4"OD) | EFGC-FS-100-K2-24 | BJ Kit 2, 24" | EA  |       | 1        |
| 1" (1-1/4"OD) | EFGC-FS-100-K2-36 | BJ Kit 2, 36" | EA  |       | 1        |
| 1" (1-1/4"OD) | EFGC-FS-100-K2-48 | BJ Kit 2, 48" | EA  |       | 1        |
| 1" (1-1/4"OD) | EFGC-FS-100-K2-60 | BJ Kit 2, 60" | EA  |       | 1        |



## Commercial Food Service BJ Series Connector | Kit 3

- Food Service BJ Gas Connector(1) / QD(1) / SW(2) / RC(1) / V(1)
- Fittings : Zinc-Plated Steel S45C
- Yellow PVC Coating
- 360° Rotational Ends



| ID          | Part #            | Description   | U/M | Price | Qty/ Box |
|-------------|-------------------|---------------|-----|-------|----------|
| 3/4" (1"OD) | EFGC-FS-034-K3-24 | BJ Kit 3, 24" | EA  |       | 1        |
| 3/4" (1"OD) | EFGC-FS-034-K3-36 | BJ Kit 3, 36" | EA  |       | 1        |
| 3/4" (1"OD) | EFGC-FS-034-K3-48 | BJ Kit 3, 48" | EA  |       | 1        |
| 3/4" (1"OD) | EFGC-FS-034-K3-60 | BJ Kit 3, 60" | EA  |       | 1        |

| ID            | Part #            | Description   | U/M | Price | Qty/ Box |
|---------------|-------------------|---------------|-----|-------|----------|
| 1" (1-1/4"OD) | EFGC-FS-100-K3-24 | BJ Kit 3, 24" | EA  |       | 1        |
| 1" (1-1/4"OD) | EFGC-FS-100-K3-36 | BJ Kit 3, 36" | EA  |       | 1        |
| 1" (1-1/4"OD) | EFGC-FS-100-K3-48 | BJ Kit 3, 48" | EA  |       | 1        |
| 1" (1-1/4"OD) | EFGC-FS-100-K3-60 | BJ Kit 3, 60" | EA  |       | 1        |



**Customizable Kits are available.**  
**Contact your local sales rep or Easyflex for more information!**

Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

## Commercial Food Service **Gas Connector Kits**

|           |        |                 |                                                                                    |
|-----------|--------|-----------------|------------------------------------------------------------------------------------|
| BJC Kit 1 | EL (2) | Elbow           |  |
|           | V (1)  | Full Port Valve |                                                                                    |
| BES Kit 1 | EL (2) | Elbow           |  |
|           | V (1)  | Full Port Valve |                                                                                    |

### Countertop Gas Appliance Connector | **Kit 1**

- BJC Gas Connector (1) / EL(2) / V(1)
- Fittings : Zinc-Plated Steel S45C
- Yellow PVC Coating



| ID            | Part #            | Description    | U/M | Price | Qty/ Box |
|---------------|-------------------|----------------|-----|-------|----------|
| 1/2" (3/4"OD) | EFGC-CC-012-K1-24 | BJC Kit 1, 24" | EA  |       | 1        |
| 1/2" (3/4"OD) | EFGC-CC-012-K1-36 | BJC Kit 1, 36" | EA  |       | 1        |

### Stationary Gas Appliance Connector | **Kit 1**

- BES Gas Connector (1) / EL(2) / V(1)
- Fittings : Zinc-Plated Steel S45C
- Black PVC Coating



| ID            | Part #            | Description    | U/M | Price | Qty/ Box |
|---------------|-------------------|----------------|-----|-------|----------|
| 1/2" (3/4"OD) | EFGC-CS-012-K1-24 | BES Kit 1, 24" | EA  |       | 1        |
| 1/2" (3/4"OD) | EFGC-CS-012-K1-36 | BES Kit 1, 36" | EA  |       | 1        |
| 1/2" (3/4"OD) | EFGC-CS-012-K1-48 | BES Kit 1, 48" | EA  |       | 1        |

| ID          | Part #            | Description    | U/M | Price | Qty/ Box |
|-------------|-------------------|----------------|-----|-------|----------|
| 3/4" (1"OD) | EFGC-CS-034-K1-24 | BES Kit 1, 24" | EA  |       | 1        |
| 3/4" (1"OD) | EFGC-CS-034-K1-36 | BES Kit 1, 36" | EA  |       | 1        |
| 3/4" (1"OD) | EFGC-CS-034-K1-48 | BES Kit 1, 48" | EA  |       | 1        |
| 3/4" (1"OD) | EFGC-CS-034-K1-60 | BES Kit 1, 60" | EA  |       | 1        |

# Commercial Food Service **Gas Connector - Parts**

## Full Port **Ball Valve**

- Lever Handle
- Brass

| Part # | Description                               | U/M | Price | Qty/ Box |
|--------|-------------------------------------------|-----|-------|----------|
| FV-012 | 1/2" FIP x 1/2" FIP, Full Port Ball Valve | EA  |       |          |
| FV-034 | 3/4" FIP x 3/4" FIP, Full Port Ball Valve | EA  |       |          |
| FV-100 | 1" FIP x 1" FIP, Full Port Ball Valve     | EA  |       |          |



## 90° **Elbow**

- Black Iron

| Part #    | Description         | U/M | Price | Qty/ Box |
|-----------|---------------------|-----|-------|----------|
| EFG-L-012 | 1/2" FIP, 90° Elbow | EA  |       |          |
| EFG-L-034 | 3/4" FIP, 90° Elbow | EA  |       |          |
| EFG-L-100 | 1" FIP, 90° Elbow   | EA  |       |          |



## Quick **Disconnect**

- Brass

| Part #    | Description           | U/M | Price | Qty/ Box |
|-----------|-----------------------|-----|-------|----------|
| FS-QD-012 | 1/2" Quick Disconnect | EA  |       |          |
| FS-QD-034 | 3/4" Quick Disconnect | EA  |       |          |
| FS-QD-100 | 1" Quick Disconnect   | EA  |       |          |



## Swivel **Fitting**

- Carbon Steel

| Part #    | Description         | U/M | Price | Qty/ Box |
|-----------|---------------------|-----|-------|----------|
| FS-SW-034 | 3/4" Swivel Fitting | EA  |       |          |
| FS-SW-100 | 1" Swivel Fitting   | EA  |       |          |



## Restraining **Cable**

- Restraining Cable (1), Mounting Parts

| Part #   | Description            | U/M | Price | Qty/ Box |
|----------|------------------------|-----|-------|----------|
| FS-RC-24 | Restraining Cable, 24" | EA  |       |          |
| FS-RC-36 | Restraining Cable, 36" | EA  |       |          |
| FS-RC-48 | Restraining Cable, 48" | EA  |       |          |
| FS-RC-60 | Restraining Cable, 60" | EA  |       |          |



Gas  
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Commercial  
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Line System

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CSST Fittings

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Water  
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Braided  
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Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

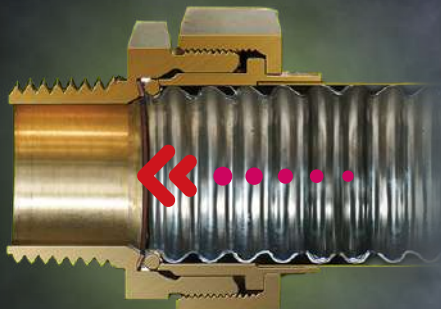
Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

**vectorFLEX™**  
vectorflex.com

1000°F  No Leakage



- *Easy Installation*
- *Quick Connect*
- *Safety Use*



## *Corrugated Stainless Steel Tubing Gas Line System*

Flexible CSST piping system for natural and propane gas applications that's engineered and manufactured to address the inherent problems associated with rigid pipe systems.



## VectorFlex

### Corrugated Stainless Steel Tubing Gas Line System

VectorFlex Corrugated Stainless Steel Tubing (CSST) is a flexible, durable, lightweight, corrosion - resistant gas pipe.



Patented QuickFlare™ fittings provide the easiest and fastest installation of gas piping for natural gas or propane gas appliances.

The easy 3-step installation (Cut-Push-Tighten) will save you time and money. Installers do NOT need to open and re-assemble the fitting. These precalibrated semi push-fit fittings are ready to be installed without any special tools or equipment.

#### Applications

- Gas Range
- Gas Fireplace
- Gas Water Heater
- Gas Dryer
- Gas Furnace
- Gas Grill
- Gas Distribution System (Residential & Commercial)

#### Certifications & Approvals

- ANSI LC-1 / CSA 6.26 Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing



Gas  
Connectors

Commercial  
Gas  
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Gas  
Line System

Gas  
CSST Fittings

Water  
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Supply stop  
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Water  
Heater  
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Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# VectorFlex

## Corrugated Stainless Steel Tubing Gas Line System

### Technical Specifications

|                                      |                                          |
|--------------------------------------|------------------------------------------|
| CSST Material                        | Stainless Steel 304 (ASTM A 240)         |
| Coating (Optional)                   | Polyethylene (ASTM D 335)                |
| Types                                | Yellow PE, Black PE                      |
| Sizes                                | 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2" |
| Lengths                              | 50 ft ~ 500 ft                           |
| Operating Pressure                   | 25 Psig                                  |
| Max No. of re-assemblies per fitting | 3                                        |

|                                |      |      |      |     |        |        |     |
|--------------------------------|------|------|------|-----|--------|--------|-----|
| Size                           | 3/8" | 1/2" | 3/4" | 1"  | 1-1/4" | 1-1/2" | 2"  |
| Min Bend Radius                | 3"   |      |      | 5"  |        |        |     |
| Min Tightening Torque [ft-lbs] | 110  | 130  | 160  | 190 | 210    | 230    | 260 |

### Installation Instructions

#### 1. Cut

Determine the proper length of the tubing needed and cut to desired length. Cut a straight section that has not been bent.



**A clean cut must be applied.**  
A rough cut can perforate the silicone ring and cause leakage.



#### 2. Mark and Strip Jacket

Mark the appropriate length of tubing (5 corrugations from the end). Using a utility knife, and strip PE jacket.



#### 3. Install Fitting

Connect threaded end of the fitting to the appliance. Use pipe thread sealant on the threaded end of fitting only.



**DO NOT use PTFE tape or sealant between body and nut connection.**



#### 4. Install QuickFlare Fitting and Remove Safety Clip

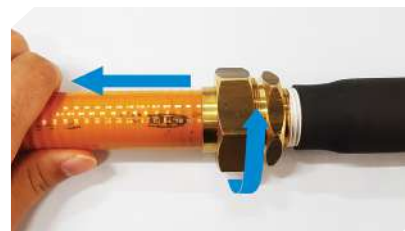
Insert the tubing into the fitting until the marked line is aligned with the end of the fitting. Proper installation will make a click sound. After inserting tubing to the fitting and before wrench tightening, remove the safety clip.



Remove Safety Clip

#### 5. Confirm Proper Installation

After installation of fitting, hand-tighten the nut. To ensure proper installation, try to pull the tubing out of the fitting. If the tubing can be pulled out of the fitting, the installation should be done again.



Confirm Proper Installation

#### 6. Wrench Tightening

Hold the fitting body using one wrench and turn the nut using the second a wrench. Do not vice or squeeze the fitting body under any circumstances.



Wrench Tightening

# VectorFlex

## Corrugated Stainless Steel Tubing Gas Line System

### Product Testing

|                           |                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Leak Test                 | Shall not leak externally in excess of 20cm <sup>3</sup> /hr(1.22 in <sup>3</sup> /hr) of air                                    |
| Pressure Test             | Withstand a hydrostatic pressure of 250 psi (1.72 Mpa) without bursting or visible loss of fluid                                 |
| Bending Test              | Withstands 12 bends without leaking with minimum bend radius                                                                     |
| Torsion Test              | Withstands 6 applications of 90° twists                                                                                          |
| Axial strength test       | Withstands a tensile load of 800 lb/in <sup>2</sup> (0.14 kN/mm) of nominal tubing diameter without leaking or becoming detached |
| Crushing strength test    | Withstands a crushing force of 1000 lb (4.45 kN) without a decrease in flow capacity of more than 50 percent                     |
| Impact test               | Withstands an impact of 30 ft-lb (40.7 J) without leaking                                                                        |
| Strength of fittings test | Shall not crack, break or leak with tightening torque of 1040 in-lb (117.5 Nm)                                                   |
| Elevated temperature      | Withstands temperatures of up to 1000°F (538°C) for one hour without leaking                                                     |
| Corrosive resistance      | Withstands exposure to corrosive environments without leaking                                                                    |
| Electrical resistance     | Will not exceed electrical resistance limited by ANSI LC1 / CSA 6.26 standard                                                    |

### Certifications, Approvals, Listing and Compliance

#### United States | CSA USA Standards Association

ANSI LC1 Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing

#### Canada | CSA Canadian Standards Association

CSA 6.26 Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing

Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# VectorFlex

## Corrugated Stainless Steel Tubing Gas Line System



### Certificate of Compliance

Certificate: 2556790 (238420)

Master Contract: 238420

Project: 70041880

Date Issued: 2016-04-28

Issued to: Kofulso Co., Ltd.  
377-8 Gungok-Dong, Seo-Gu  
Inchon City,  
SOUTH KOREA  
Attention: Hun Kim

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



Issued by: John Kristoff-Kichka  
John Kristoff-Kichka

#### PRODUCTS

CLASS - C333504 - SYSTEMS (GAS)-Fuel Piping

CLASS - C333584 - SYSTEMS (GAS)-Fuel Piping-Certified to U.S. Standards

| Model Number              | Size  |
|---------------------------|-------|
| Rated Pressure 25 psi     |       |
| GL-038-YPE, NGL-038-CGYCT | 3/8   |
| GL-012-YPE, NGL-012-CGYCT | 1/2   |
| GL-034-YPE, NGL-034-CGYCT | 3/4   |
| GL-100-YPE, NGL-100-CGYCT | 1     |
| GL-114-YPE, NGL-114-CGYCT | 1 1/4 |
| GL-112-YPE, NGL-112-CGYCT | 1 1/2 |
| GL-200-YPE, NGL-200-CGYCT | 2     |

#### APPLICABLE REQUIREMENTS

ANSI LC1-2014•CSA 6.26-2014, Fuel Gas Piping systems Using Corrugated Stainless Steel Tubing

# VectorFlex

## Corrugated Stainless Steel Tubing Gas Line System

### VectorFlex Gas CSST | Yellow PE Jacket

- Tubing : Stainless Steel 304
- Coating : Yellow Polyethylene(PE)
- Coating Thickness: 0.02"
- Max. Operating Temperature : 212° F
- Max. Operating Pressure : 25psig



| ID     | Part #         | Description                         | U/M  | Price | Qty/ Box |
|--------|----------------|-------------------------------------|------|-------|----------|
| 3/8"   | NGL-038-YW-050 | 3/8" ID, Yellow PE Jacket, 50 ft    | Box  |       |          |
| 3/8"   | NGL-038-YW-100 | 3/8" ID, Yellow PE Jacket, 100 ft   | Roll |       |          |
| 3/8"   | NGL-038-YW-250 | 3/8" ID, Yellow PE Jacket, 250 ft   | Roll |       |          |
| 1/2"   | NGL-012-YW-050 | 1/2" ID, Yellow PE Jacket, 50 ft    | Box  |       |          |
| 1/2"   | NGL-012-YW-100 | 1/2" ID, Yellow PE Jacket, 100 ft   | Roll |       |          |
| 1/2"   | NGL-012-YW-250 | 1/2" ID, Yellow PE Jacket, 250 ft   | Roll |       |          |
| 3/4"   | NGL-034-YW-050 | 3/4" ID, Yellow PE Jacket, 50 ft    | Box  |       |          |
| 3/4"   | NGL-034-YW-100 | 3/4" ID, Yellow PE Jacket, 100 ft   | Roll |       |          |
| 3/4"   | NGL-034-YW-250 | 3/4" ID, Yellow PE Jacket, 250 ft   | Roll |       |          |
| 1"     | NGL-100-YW-050 | 1" ID, Yellow PE Jacket, 50 ft      | Box  |       |          |
| 1"     | NGL-100-YW-100 | 1" ID, Yellow PE Jacket, 100 ft     | Roll |       |          |
| 1"     | NGL-100-YW-250 | 1" ID, Yellow PE Jacket, 250 ft     | Roll |       |          |
| 1-1/4" | NGL-114-YW-150 | 1-1/4" ID, Yellow PE Jacket, 150 ft | Roll |       |          |
| 1-1/2" | NGL-112-YW-150 | 1-1/2" ID, Yellow PE Jacket, 150 ft | Roll |       |          |
| 2"     | NGL-200-YW-150 | 2" ID, Yellow PE Jacket, 150 ft     | Roll |       |          |



### VectorFlex Gas CSST | Black PE Jacket

- Tubing : Stainless Steel 304
- Coating : Black Polyethylene(PE)
- Coating Thickness: 0.02"
- Max. Operating Temperature : 212° F
- Max. Operating Pressure : 25psig



| ID     | Part #         | Description                        | U/M  | Price | Qty/ Box |
|--------|----------------|------------------------------------|------|-------|----------|
| 3/8"   | NGL-038-BK-050 | 3/8" ID, Black PE Jacket, 50 ft    | Box  |       |          |
| 3/8"   | NGL-038-BK-100 | 3/8" ID, Black PE Jacket, 100 ft   | Roll |       |          |
| 3/8"   | NGL-038-BK-250 | 3/8" ID, Black PE Jacket, 250 ft   | Roll |       |          |
| 1/2"   | NGL-012-BK-050 | 1/2" ID, Black PE Jacket, 50 ft    | Box  |       |          |
| 1/2"   | NGL-012-BK-100 | 1/2" ID, Black PE Jacket, 100 ft   | Roll |       |          |
| 1/2"   | NGL-012-BK-250 | 1/2" ID, Black PE Jacket, 250 ft   | Roll |       |          |
| 3/4"   | NGL-034-BK-050 | 3/4" ID, Black PE Jacket, 50 ft    | Box  |       |          |
| 3/4"   | NGL-034-BK-100 | 3/4" ID, Black PE Jacket, 100 ft   | Roll |       |          |
| 3/4"   | NGL-034-BK-250 | 3/4" ID, Black PE Jacket, 250 ft   | Roll |       |          |
| 1"     | NGL-100-BK-050 | 1" ID, Black PE Jacket, 50 ft      | Box  |       |          |
| 1"     | NGL-100-BK-100 | 1" ID, Black PE Jacket, 100 ft     | Roll |       |          |
| 1"     | NGL-100-BK-250 | 1" ID, Black PE Jacket, 250 ft     | Roll |       |          |
| 1-1/4" | NGL-114-BK-150 | 1-1/4" ID, Black PE Jacket, 150 ft | Roll |       |          |
| 1-1/2" | NGL-112-BK-150 | 1-1/2" ID, Black PE Jacket, 150 ft | Roll |       |          |
| 2"     | NGL-200-BK-150 | 2" ID, Black PE Jacket, 150 ft     | Roll |       |          |



# VectorFlex

## Corrugated Stainless Steel Tubing Gas Line System

### Flange

- Material: Stainless Steel 304
- Nut: Brass B124 C37700 (C3771)
- Connection: Threaded



| Part #        | Description                       | U/M | Price | Qty/ Box |
|---------------|-----------------------------------|-----|-------|----------|
| NGLF-038-CGFG | 3/8" Flange Fitting, 3/8" Nut     | EA  |       |          |
| NGLF-012-CGFG | 1/2" Flange Fitting, 1/2" Nut     | EA  |       |          |
| NGLF-034-CGFG | 3/4" Flange Fitting, 3/4" Nut     | EA  |       |          |
| NGLF-100-CGFG | 1" Flange Fitting, 1" Nut         | EA  |       |          |
| NGLF-114-CGFG | 1 1/4" Flange Fitting, 1 1/4" Nut | EA  |       |          |
| NGLF-112-CGFG | 1 1/2" Flange Fitting, 1 1/2" Nut | EA  |       |          |
| NGLF-200-CGFG | 2" Flange Fitting, 2" Nut         | EA  |       |          |

### Manifold

- Material: Stainless Steel 304
- Connection: Threaded



| Part #      | Description                                           | U/M | Price | Qty/ Box |
|-------------|-------------------------------------------------------|-----|-------|----------|
| NGLF-MFD-01 | In 1/2"F, Out 1/2"F, Socket(3ea) 1/2"F, Manifold      | EA  |       |          |
| NGLF-MFD-02 | In 1/2"F, Out 1/2"F, Socket(4ea) 1/2"F, Manifold      | EA  |       |          |
| NGLF-MFD-03 | In 3/4"F, Out 1/2"F, Socket(4ea) 1/2"F, Manifold      | EA  |       |          |
| NGLF-MFD-04 | In 3/4"F, Out 1/2"F, Socket(5ea) 1/2"-3/4"F, Manifold | EA  |       |          |
| NGLF-MFD-05 | In 3/4"F, Out 3/4"F, Socket(4ea) 1/2"F, Manifold      | EA  |       |          |
| NGLF-MFD-06 | In 3/4"F, Out 3/4"F, Socket(5ea) 1/2"F, Manifold      | EA  |       |          |
| NGLF-MFD-07 | In 1"F, Out 3/4"F, Socket(5ea) 1/2"-3/4"F, Manifold   | EA  |       |          |
| NGLF-MFD-08 | In 1"F, Out 1"F, Socket(4ea) 1/2"F, Manifold          | EA  |       |          |
| NGLF-MFD-09 | In 1 1/4"F, Out 1"F, Socket(5ea) 1/2"F, Manifold      | EA  |       |          |
| NGLF-MFD-10 | In 1 1/4"F, Out 1 1/4"F, Socket(4ea) 1/2"F, Manifold  | EA  |       |          |
| NGLF-MFD-11 | In 1"F, Out 1 1/4"F, Socket(4ea) 3/4"F, Manifold      | EA  |       |          |
| NGLF-MFD-12 | In 1"F, Out 1"F, Socket(4ea) 3/4"F, Manifold          | EA  |       |          |
| NGLF-MFD-13 | In 1 1/4"F, Out 1"F, Socket(4ea) 3/4"F, Manifold      | EA  |       |          |
| NGLF-MFD-14 | In 1 1/2"F, Out 1 1/2"F, Socket(5ea) 3/4"F, Manifold  | EA  |       |          |
| NGLF-MFD-15 | In 2"F, Out 1 1/2"F, Socket(4ea) 1"F, Manifold        | EA  |       |          |
| NGLF-MFD-16 | In 2"F, Out 1 1/2"F, Socket(6ea) 1"F, Manifold        | EA  |       |          |
| NGLF-MFD-17 | In 2"F, Out 1 1/2"F, Socket(4ea) 1"F, Manifold        | EA  |       |          |
| NGLF-MFD-18 | In 2"F, Out 2"F, Socket(6ea) 1"F, Manifold            | EA  |       |          |

# VectorFlex

## Corrugated Stainless Steel Tubing Gas Line System

### Appliance Stub Out

- Material: Stainless Steel 304
- Connection: Threaded

| Part #             | Description                   | U/M | Price | Qty/ Box |
|--------------------|-------------------------------|-----|-------|----------|
| NGLF-012-APSO-012S | 1/2" Appliance Stub Out Short | EA  |       |          |
| NGLF-012-APSO-012L | 1/2" Appliance Stub Out Long  | EA  |       |          |
| NGLF-012-APSO-034S | 1/2" Appliance Stub Out Short | EA  |       |          |
| NGLF-012-APSO-034L | 1/2" Appliance Stub Out Long  | EA  |       |          |
| NGLF-034-APSO-034S | 3/4" Appliance Stub Out Short | EA  |       |          |
| NGLF-034-APSO-034L | 3/4" Appliance Stub Out Long  | EA  |       |          |



### Straight Stub Out

- Material: Stainless Steel 304
- Connection: Threaded

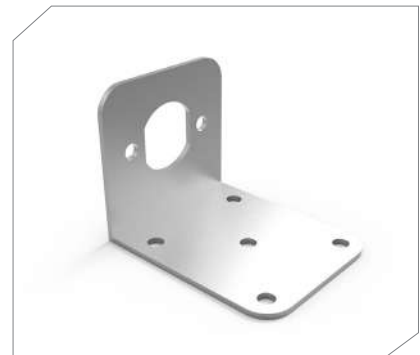
| Part #          | Description                         | U/M | Price | Qty/ Box |
|-----------------|-------------------------------------|-----|-------|----------|
| NGLF-012-SSO-06 | 1/2" Straight Stub Out 6" Length    | EA  |       |          |
| NGLF-012-SSO-12 | 1/2" Straight Stub Out 12" Length   | EA  |       |          |
| NGLF-034-SSO-06 | 3/4" Straight Stub Out 6" Length    | EA  |       |          |
| NGLF-034-SSO-12 | 3/4" Straight Stub Out 12" Length   | EA  |       |          |
| NGLF-100-SSO-06 | 1" Straight Stub Out 6" Length      | EA  |       |          |
| NGLF-100-SSO-12 | 1" Straight Stub Out 12" Length     | EA  |       |          |
| NGLF-114-SSO-06 | 1 1/4" Straight Stub Out 6" Length  | EA  |       |          |
| NGLF-114-SSO-12 | 1 1/4" Straight Stub Out 12" Length | EA  |       |          |
| NGLF-112-SSO-06 | 1 1/2" Straight Stub Out 6" Length  | EA  |       |          |
| NGLF-112-SSO-12 | 1 1/2" Straight Stub Out 12" Length | EA  |       |          |
| NGLF-200-SSO-06 | 2" Straight Stub Out 6" Length      | EA  |       |          |
| NGLF-200-SSO-12 | 2" Straight Stub Out 12" Length     | EA  |       |          |



### Termination Fitting

- Material: Stainless Steel 304
- Connection: Threaded

| Part #      | Description                | U/M | Price | Qty/ Box |
|-------------|----------------------------|-----|-------|----------|
| NGLF-038-TM | 3/8" Termination Fitting   | EA  |       |          |
| NGLF-012-TM | 1/2" Termination Fitting   | EA  |       |          |
| NGLF-034-TM | 3/4" Termination Fitting   | EA  |       |          |
| NGLF-100-TM | 1" Termination Fitting     | EA  |       |          |
| NGLF-114-TM | 1 1/4" Termination Fitting | EA  |       |          |
| NGLF-112-TM | 1 1/2" Termination Fitting | EA  |       |          |
| NGLF-200-TM | 2" Termination Fitting     | EA  |       |          |



# VectorFlex

## Corrugated Stainless Steel Tubing Gas Line System

### Multi Outlet Stub Out

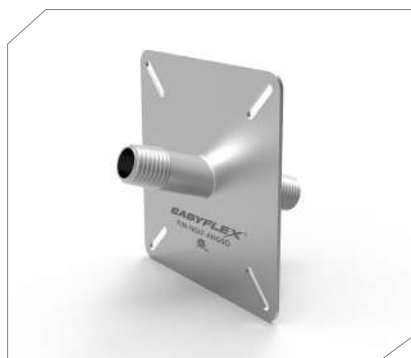
- Material: Stainless Steel 304
- Connection: Threaded



| Part #      | Description                       | U/M | Price | Qty/ Box |
|-------------|-----------------------------------|-----|-------|----------|
| NGLF-MULSOO | 3/4" x 1/2" x 3/4" Multi Stub Out | EA  |       |          |

### Angle Stub Out

- Material: Stainless Steel 304
- Connection: Threaded



| Part #     | Description                        | U/M | Price | Qty/ Box |
|------------|------------------------------------|-----|-------|----------|
| NGLF-ANGSO | 1/2" x 4.5" x 72.5° Angle Stub Out | EA  |       |          |

### Deck Stub Out

- Material: Stainless Steel 304
- Connection: Threaded



| Part #       | Description                  | U/M | Price | Qty/ Box |
|--------------|------------------------------|-----|-------|----------|
| NGLF-DSO-012 | 1/2" Male, 3", Deck Stub Out | EA  |       |          |

# VectorFlex

## Corrugated Stainless Steel Tubing Gas Line System

### Half Striker Plate

- Material: Stainless Steel 304
- Connection: Threaded

| Part #       | Description                | U/M | Price | Qty/ Box |
|--------------|----------------------------|-----|-------|----------|
| NGLF-STKP-37 | 3" x 7" Half Striker Plate | EA  |       |          |



### Half Striker Plate - Double

- Material: Stainless Steel 304
- Connection: Threaded

| Part #        | Description                         | U/M | Price | Qty/ Box |
|---------------|-------------------------------------|-----|-------|----------|
| NGLF-STKP-384 | 3" x 8.4" Half Striker Plate-Double | EA  |       |          |



### Quarter Striker Plate

- Material: Stainless Steel 304
- Connection: Threaded

| Part #       | Description                   | U/M | Price | Qty/ Box |
|--------------|-------------------------------|-----|-------|----------|
| NGLF-STKP-32 | 3" x 2" Quarter Striker Plate | EA  |       |          |



Gas  
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Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# VectorFlex

## Corrugated Stainless Steel Tubing Gas Line System

### Three Quarter Striker Plate

- Material: Stainless Steel 304
- Connection: Threaded



| Part #       | Description                         | U/M | Price | Qty/ Box |
|--------------|-------------------------------------|-----|-------|----------|
| NGLF-STKP-38 | 3" x 8" Three Quarter Striker Plate | EA  |       |          |

### Extra Large Striker Plate

- Material: Stainless Steel 304
- Connection: Threaded



| Part #       | Description                        | U/M | Price | Qty/ Box |
|--------------|------------------------------------|-----|-------|----------|
| NGLF-STKP-EX | 6" x 17" Extra Large Striker Plate | EA  |       |          |

### Full Striker Plate

- Material: Stainless Steel 304
- Connection: Threaded



| Part #        | Description                 | U/M | Price | Qty/ Box |
|---------------|-----------------------------|-----|-------|----------|
| NGLF-STKP-312 | 3" x 12" Full Striker Plate | EA  |       |          |

# VectorFlex

## Corrugated Stainless Steel Tubing Gas Line System

### Full Drop Striker Plate

- Material: Stainless Steel 304
- Connection: Threaded

| Part #       | Description                         | U/M | Price | Qty/ Box |
|--------------|-------------------------------------|-----|-------|----------|
| NGLF-STKP-BC | 1/2" x 3/4" Full Drop Striker Plate | EA  |       |          |
| NGLF-STKP-ED | 1" x 1-1/4" Full Drop Striker Plate | EA  |       |          |



### Bonding Clamp

- Material: Brass B124 C37700 (C3771)
- Connection: Threaded

| Part #    | Description            | U/M | Price | Qty/ Box |
|-----------|------------------------|-----|-------|----------|
| NGLF-BC-S | 3/8", 1/2", 3/4"       | EA  |       |          |
| NGLF-BC-L | 1", 1-1/4", 1-1/2", 2" | EA  |       |          |



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Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# VectorFlex™ and VectorFlow™ - Tools



## Tube Cutter

- Reamer included for deburring the tube
- Easy-to-replace blade

| Part #       | Description                       | U/M | Price | Qty/ Box |
|--------------|-----------------------------------|-----|-------|----------|
| EF-Cutter-32 | CSST Cutter, up to 5-32mm(1-1/4") | EA  |       | 10       |
| EF-Cutter-50 | CSST Cutter, up to 6-50mm(2")     | EA  |       | 10       |
| EF-Cutter-70 | CSST Cutter, up to 7-70mm(2-3/4") | EA  |       | 10       |



## Tube Jacket Stripper

- Gas CSST
- Water CSST (PE Coated)

| Part #        | Description                      | U/M | Price | Qty/ Box |
|---------------|----------------------------------|-----|-------|----------|
| EF-JT-Striper | Tube Jacket Stripper, 3/8" to 2" | EA  |       | 10       |



## Plastic Pipe Cutter

- PB
- PEX
- CPVC

| Part #       | Description                   | U/M | Price | Qty/ Box |
|--------------|-------------------------------|-----|-------|----------|
| EW-PP-Cutter | Plastic Pipe Cutter, up to 1" | EA  |       | 20       |

# VectorFlex™ and VectorFlow™ - Tools

## Tube Mounting Saddle

- Material: Stainless Steel 304
- 2 ears

| Part #     | Description                  | U/M | Price | Qty/ Bag |
|------------|------------------------------|-----|-------|----------|
| EFW-WB-038 | 3/8" CSST Mounting Bracket   | EA  |       | 50       |
| EFW-WB-012 | 1/2" CSST Mounting Bracket   | EA  |       | 50       |
| EFW-WB-034 | 3/4" CSST Mounting Bracket   | EA  |       | 50       |
| EFW-WB-100 | 1" CSST Mounting Bracket     | EA  |       | 50       |
| EFW-WB-114 | 1-1/4" CSST Mounting Bracket | EA  |       | 50       |
| EFW-WB-112 | 1-1/2" CSST Mounting Bracket | EA  |       | 50       |
| EFW-WB-200 | 2" CSST Mounting Bracket     | EA  |       | 50       |



## PTFE Thread Seal Tape

- WH (0.77g/cm<sup>3</sup>) / YE (1.38g/cm<sup>3</sup>)
- 012 / 034

| Part #           | Description                   | U/M | Price | Qty/ Bag |
|------------------|-------------------------------|-----|-------|----------|
| EF-TP-WH-012-520 | 1/2" x 520" x 0.0035", White  | EA  |       | 100      |
| EF-TP-YE-012-520 | 1/2" x 520" x 0.0035", Yellow | EA  |       | 100      |
| EF-TP-WH-034-520 | 3/4" x 520" x 0.0035", White  | EA  |       | 100      |
| EF-TP-YE-034-520 | 3/4" x 520" x 0.0035", Yellow | EA  |       | 100      |



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Supply stop  
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Water  
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Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops



## *Gas Brass Fittings*

Patented and ready-to-install from the factory, QuickFlare fittings eliminate all the hassles of threading, welding, or gluing connections. Simply **CUT**, **PUSH**, and **TIGHTEN**. It's that easy!

**FLARE**™

**QuickFLARE**™

**VectorFLEX**™

**EASYFLEX**



## QuickFlare™ Brass Fittings for VectorFlex™ Gas CSST



« Easy Installation « Certified  
« Quick Connect « No Rubber Parts

### Benefits

- Patented 3-Step Installation (CUT, PUSH, TIGHTEN)
- Reduced Labor Costs
- Resistant to Scaling & Corrosion
- No Special Tools Required
- Factory Ready-To-Install
- Variety of Applications

### Applications

- Gas Range
- Gas Fireplace
- Gas Water Heaters
- Gas Dryer
- Gas Furnace
- Gas Grill
- Gas Distribution (Residential & Commercial)

### Certifications & Approvals

- ANSI LC-1 / CSA 6.26 Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing



### Materials

|              |                                 |
|--------------|---------------------------------|
| Body         | Brass UNS C 37700 (ASTM DS-561) |
| Bushing      | Brass UNS C 37700 (ASTM DS-561) |
| Nut          | Brass UNS C 37700 (ASTM DS-561) |
| Comp. Ring   | Brass UNS C 36400 (ASTM B16)    |
| Comp. Washer | Brass UNS C 36400 (ASTM B16)    |
| Safety Clip  | Stainless Steel 304             |

### Technical Specifications

|                        |                                          |
|------------------------|------------------------------------------|
| Sizes                  | 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2" |
| Rated Working Pressure | 25 psi                                   |

# QuickFlare CSST Gas Line System Fittings

## Straight Male

- Brass B124 C37700 (C3771)
- Bushing-Brass B124 C37700 (C3771)
- Compression Ring-B124 C360400(C3604)

- Compression Washer-C1220 T-H C360400(C3604)
- Safety Clip-ASTM 1010



| Part #          | Description                        | U/M | Price | Qty/ Box |
|-----------------|------------------------------------|-----|-------|----------|
| NGLF-038-ST     | 3/8" MIP, Straight Brass Adapter   | EA  |       |          |
| NGLF-038-ST-012 | 1/2" MIP, Straight Brass Adapter   | EA  |       |          |
| NGLF-012-ST     | 1/2" MIP, Straight Brass Adapter   | EA  |       |          |
| NGLF-012-ST-038 | 3/8" MIP, Straight Brass Adapter   | EA  |       |          |
| NGLF-034-ST     | 3/4" MIP, Straight Brass Adapter   | EA  |       |          |
| NGLF-034-ST-012 | 1/2" MIP, Straight Brass Adapter   | EA  |       |          |
| NGLF-100-ST     | 1" MIP, Straight Brass Adapter     | EA  |       |          |
| NGLF-100-ST-034 | 3/4" MIP, Straight Brass Adapter   | EA  |       |          |
| NGLF-114-ST     | 1 1/4" MIP, Straight Brass Adapter | EA  |       |          |
| NGLF-112-ST     | 1 1/2" MIP, Straight Brass Adapter | EA  |       |          |
| NGLF-200-ST     | 2" MIP, Straight Brass Adapter     | EA  |       |          |

## Straight Female

- Brass B124 C37700 (C3771)
- Bushing-Brass B124 C37700 (C3771)
- Compression Ring-B124 C360400(C3604)

- Compression Washer-C1220 T-H C360400(C3604)
- Safety Clip-ASTM 1010



| Part #          | Description                        | U/M | Price | Qty/ Box |
|-----------------|------------------------------------|-----|-------|----------|
| NGLF-038-SF     | 3/8" FIP, Straight Brass Adapter   | EA  |       |          |
| NGLF-038-SF-012 | 1/2" FIP, Straight Brass Adapter   | EA  |       |          |
| NGLF-012-SF     | 1/2" FIP, Straight Brass Adapter   | EA  |       |          |
| NGLF-012-SF-038 | 3/8" FIP, Straight Brass Adapter   | EA  |       |          |
| NGLF-034-SF     | 3/4" FIP, Straight Brass Adapter   | EA  |       |          |
| NGLF-034-SF-012 | 1/2" FIP, Straight Brass Adapter   | EA  |       |          |
| NGLF-100-SF     | 1" FIP, Straight Brass Adapter     | EA  |       |          |
| NGLF-100-SF-034 | 3/4" FIP, Straight Brass Adapter   | EA  |       |          |
| NGLF-114-SF     | 1 1/4" FIP, Straight Brass Adapter | EA  |       |          |
| NGLF-112-SF     | 1 1/2" FIP, Straight Brass Adapter | EA  |       |          |
| NGLF-200-SF     | 2" FIP, Straight Brass Adapter     | EA  |       |          |

## Coupling / Union

- Brass B124 C37700 (C3771)
- Bushing-Brass B124 C37700 (C3771)
- Compression Ring-B124 C360400(C3604)

- Compression Washer-C1220 T-H C360400(C3604)
- Safety Clip-ASTM 1010



| Part #      | Description                             | U/M | Price | Qty/ Box |
|-------------|-----------------------------------------|-----|-------|----------|
| NGLF-038-CP | 3/8" Coupling, Straight Brass Adapter   | EA  |       |          |
| NGLF-012-CP | 1/2" Coupling, Straight Brass Adapter   | EA  |       |          |
| NGLF-034-CP | 3/4" Coupling, Straight Brass Adapter   | EA  |       |          |
| NGLF-100-CP | 1" Coupling, Straight Brass Adapter     | EA  |       |          |
| NGLF-114-CP | 1 1/4" Coupling, Straight Brass Adapter | EA  |       |          |
| NGLF-112-CP | 1 1/2" Coupling, Straight Brass Adapter | EA  |       |          |
| NGLF-200-CP | 2" Coupling, Straight Brass Adapter     | EA  |       |          |

# QuickFlare

## CSST Gas Line System Fittings

### Tee

- Brass B124 C37700 (C3771)
- Bushing-Brass B124 C37700 (C3771)
- Compression Ring-B124 C360400(C3604)
- Compression Washer-C1220 T-H C360400(C3604)
- Safety Clip-ASTM 1010



| Part #     | Description | U/M | Price | Qty/ Box |
|------------|-------------|-----|-------|----------|
| NGLF-038-T | 3/8" Tee    | EA  |       |          |
| NGLF-012-T | 1/2" Tee    | EA  |       |          |
| NGLF-034-T | 3/4" Tee    | EA  |       |          |
| NGLF-100-T | 1" Tee      | EA  |       |          |
| NGLF-114-T | 1 1/4" Tee  | EA  |       |          |
| NGLF-112-T | 1 1/2" Tee  | EA  |       |          |
| NGLF-200-T | 2" Tee      | EA  |       |          |



### Female Tee

- Brass B124 C37700 (C3771)
- Bushing-Brass B124 C37700 (C3771)
- Compression Ring-B124 C360400(C3604)
- Compression Washer-C1220 T-H C360400(C3604)
- Safety Clip-ASTM 1010



| Part #      | Description       | U/M | Price | Qty/ Box |
|-------------|-------------------|-----|-------|----------|
| NGLF-012-FT | 1/2" Female Tee   | EA  |       |          |
| NGLF-034-FT | 3/4" Female Tee   | EA  |       |          |
| NGLF-100-FT | 1" Female Tee     | EA  |       |          |
| NGLF-114-FT | 1 1/4" Female Tee | EA  |       |          |
| NGLF-112-FT | 1 1/2" Female Tee | EA  |       |          |
| NGLF-200-FT | 2" Female Tee     | EA  |       |          |



### Reducing Female Tee

- Brass B124 C37700 (C3771)
- Bushing-Brass B124 C37700 (C3771)
- Compression Ring-B124 C360400(C3604)
- Compression Washer-C1220 T-H C360400(C3604)
- Safety Clip-ASTM 1010



| Part #           | Description              | U/M | Price | Qty/ Box |
|------------------|--------------------------|-----|-------|----------|
| NGLF-012-RFT-038 | 3/8" Reducing Female Tee | EA  |       |          |
| NGLF-034-RFT-012 | 1/2" Reducing Female Tee | EA  |       |          |
| NGLF-100-RFT-034 | 3/4" Reducing Female Tee | EA  |       |          |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System  
Connectors

Gas  
CSST Fittings

Water  
Line System  
Connectors

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# QuickFlare CSST Gas Line System Fittings

## Reducing Run and Tee

- Brass B124 C37700 (C3771)
- Bushing-Brass B124 C37700 (C3771)
- Compression Ring-B124 C360400(C3604)
- Compression Washer-C1220 T-H C360400(C3604)
- Safety Clip-ASTM 1010



| Part #             | Description                                   | U/M | Price | Qty/ Box |
|--------------------|-----------------------------------------------|-----|-------|----------|
| NGLF-012-RT-038    | 1/2" x 3/8"(T), Reducing Run & Tee            | EA  |       |          |
| NGLF-034-RT-012038 | 3/4" x 1/2" x 3/8"(T), Reducing Run & Tee     | EA  |       |          |
| NGLF-034-RT-012    | 3/4" x 1/2"(T), Reducing Run & Tee            | EA  |       |          |
| NGLF-100-RT-034012 | 1" x 3/4" x 1/2"(T), Reducing Run & Tee       | EA  |       |          |
| NGLF-100-RT-034    | 1" x 3/4"(T), Reducing Run & Tee              | EA  |       |          |
| NGLF-114-RT-100012 | 1 1/4" x 1" x 1/2"(T), Reducing Run & Tee     | EA  |       |          |
| NGLF-114-RT-100034 | 1 1/4" x 1" x 3/4"(T), Reducing Run & Tee     | EA  |       |          |
| NGLF-114-RT-100    | 1 1/4" x 1"(T), Reducing Run & Tee            | EA  |       |          |
| NGLF-112-RT-114012 | 1 1/2" x 1 1/4" x 1/2"(T), Reducing Run & Tee | EA  |       |          |
| NGLF-112-RT-114034 | 1 1/2" x 1 1/4" x 3/4"(T), Reducing Run & Tee | EA  |       |          |
| NGLF-112-RT-114100 | 1 1/2" x 1 1/4" x 1"(T), Reducing Run & Tee   | EA  |       |          |
| NGLF-112-RT-114    | 1 1/2" x 1 1/4"(T), Reducing Run & Tee        | EA  |       |          |
| NGLF-200-RT-112012 | 2" x 1 1/2" x 1/2"(T), Reducing Run & Tee     | EA  |       |          |
| NGLF-200-RT-112034 | 2" x 1 1/2" x 3/4"(T), Reducing Run & Tee     | EA  |       |          |
| NGLF-200-RT-112100 | 2" x 1 1/2" x 1"(T), Reducing Run & Tee       | EA  |       |          |
| NGLF-200-RT-112114 | 2" x 1 1/2" x 1 1/4"(T), Reducing Run & Tee   | EA  |       |          |
| NGLF-200-RT-112    | 2" x 1 1/2"(T), Reducing Run & Tee            | EA  |       |          |

## Bushing

- Brass B124 C37700 (C3771)



| Part #       | Description    | U/M | Price | Qty/ Box |
|--------------|----------------|-----|-------|----------|
| NGLF-038-CGB | 3/8" Bushing   | EA  |       |          |
| NGLF-012-CGB | 1/2" Bushing   | EA  |       |          |
| NGLF-034-CGB | 3/4" Bushing   | EA  |       |          |
| NGLF-100-CGB | 1" Bushing     | EA  |       |          |
| NGLF-114-CGB | 1 1/4" Bushing | EA  |       |          |
| NGLF-112-CGB | 1 1/2" Bushing | EA  |       |          |
| NGLF-200-CGB | 2" Bushing     | EA  |       |          |

# QuickFlare

## CSST Gas Line System Fittings

### Nut

- Brass B124 C37700 (C3771)

| Part #       | Description | U/M | Price | Qty/ Box |
|--------------|-------------|-----|-------|----------|
| NGLF-038-CGN | 3/8" Nut    | EA  |       |          |
| NGLF-012-CGN | 1/2" Nut    | EA  |       |          |
| NGLF-034-CGN | 3/4" Nut    | EA  |       |          |
| NGLF-100-CGN | 1" Nut      | EA  |       |          |
| NGLF-114-CGN | 1 1/4" Nut  | EA  |       |          |
| NGLF-112-CGN | 1 1/2" Nut  | EA  |       |          |
| NGLF-200-CGN | 2" Nut      | EA  |       |          |



### Compression Ring

- B124 C360400(C3604)

| Part #        | Description             | U/M | Price | Qty/ Box |
|---------------|-------------------------|-----|-------|----------|
| NGLF-038-CGCR | 3/8" Compression Ring   | EA  |       |          |
| NGLF-012-CGCR | 1/2" Compression Ring   | EA  |       |          |
| NGLF-034-CGCR | 3/4" Compression Ring   | EA  |       |          |
| NGLF-100-CGCR | 1" Compression Ring     | EA  |       |          |
| NGLF-114-CGCR | 1 1/4" Compression Ring | EA  |       |          |
| NGLF-112-CGCR | 1 1/2" Compression Ring | EA  |       |          |
| NGLF-200-CGCR | 2" Compression Ring     | EA  |       |          |



### Compression Washer

- C1220 T-H C360400(C3604)

| Part #        | Description               | U/M | Price | Qty/ Box |
|---------------|---------------------------|-----|-------|----------|
| NGLF-038-CGCW | 3/8" Compression Washer   | EA  |       |          |
| NGLF-012-CGCW | 1/2" Compression Washer   | EA  |       |          |
| NGLF-034-CGCW | 3/4" Compression Washer   | EA  |       |          |
| NGLF-100-CGCW | 1" Compression Washer     | EA  |       |          |
| NGLF-114-CGCW | 1 1/4" Compression Washer | EA  |       |          |
| NGLF-112-CGCW | 1 1/2" Compression Washer | EA  |       |          |
| NGLF-200-CGCW | 2" Compression Washer     | EA  |       |          |



### High Temperature O Ring

- NE-Z150(Silicone Rubber)

| Part #         | Description                    | U/M | Price | Qty/ Box |
|----------------|--------------------------------|-----|-------|----------|
| NGLF-038-CGHTO | 3/8" High Temperature O Ring   | EA  |       |          |
| NGLF-012-CGHTO | 1/2" High Temperature O Ring   | EA  |       |          |
| NGLF-034-CGHTO | 3/4" High Temperature O Ring   | EA  |       |          |
| NGLF-100-CGHTO | 1" High Temperature O Ring     | EA  |       |          |
| NGLF-114-CGHTO | 1 1/4" High Temperature O Ring | EA  |       |          |
| NGLF-112-CGHTO | 1 1/2" High Temperature O Ring | EA  |       |          |
| NGLF-200-CGHTO | 2" High Temperature O Ring     | EA  |       |          |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System  
Connectors

Gas  
CSST Fittings

Water  
Line System  
Connectors

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops



***vectorFLOW***™

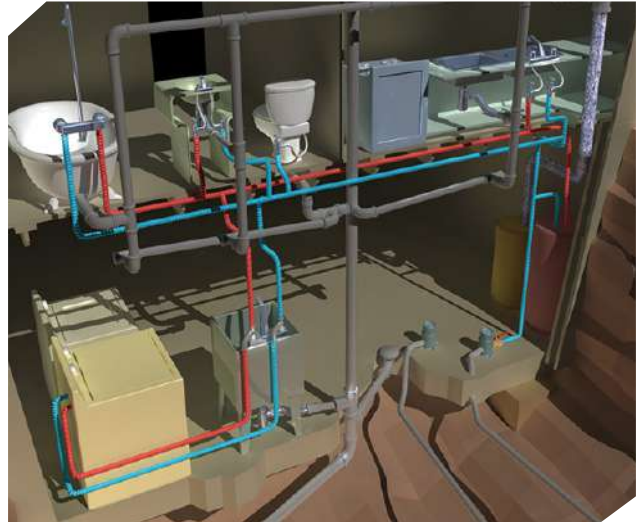
## ***Corrugated Stainless Steel Tubing Water Line System***

Flexible water distribution piping system for plumbing applications. The simplest and fastest solution for re-piping, renovations and new constructions.



## **VectorFlow™**

### *Corrugated Stainless Steel Tubing* **Water Line System**



This system consists of flexible, durable, lightweight, corrosion-resistant corrugated stainless steel tubing and is perfect for general plumbing, water distribution systems, water heating systems, tankless water heaters, heat exchangers, and fan coil units.

#### **Applications**

- General Plumbing
- Water Distribution Systems
- Tankless Water Heaters
- Heat Exchangers
- Fan Coil Units

#### **Benefits**

- Reduced Labor Costs
- Resistance to Scaling & Corrosion
- No Special Tools Required
- Minimal Fittings
- Environmentally Safe

#### **Certifications & Approvals**

- CSA
- UPC / NSF 61 Compliant for safe drinking water
- NSF 372 Compliant : Lead-Free



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
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Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# VectorFlow

## Corrugated Stainless Steel Tubing Water Line System

### Technical Specifications

|                          |                                                        |         |         |         |
|--------------------------|--------------------------------------------------------|---------|---------|---------|
| CSST Material            | Stainless Steel 304 (ASTM A 240)                       |         |         |         |
| Coating (Optional)       | Polyethylene (ASTM D 335)                              |         |         |         |
| Types                    | Uncoated, Blue PE, Red PE                              |         |         |         |
| Sizes                    | 1/2"                                                   | 3/4"    | 1"      | 1-1/4"  |
| Inner Dia.               | 0.55 in                                                | 0.83 in | 1.03 in | 1.26 in |
| CSST Thickness           | 0.010"                                                 |         | 0.012"  |         |
| PE Coating Thickness     | 0.02"                                                  |         |         |         |
| Available Lengths        | 50, 100, 150 ft / Roll<br>Custom lengths are available |         |         |         |
| Burst Pressure           | 588 psi with fittings attached                         |         |         |         |
| Rated Pressure           | 147 psi at 212° F                                      |         |         |         |
| Maximum Working Pressure | 1/2"                                                   |         | 220 psi |         |
|                          | 3/4"                                                   |         | 176 psi |         |
|                          | 1"                                                     |         | 147 psi |         |
|                          | 1-1/4"                                                 |         | 110 psi |         |

| Minimum Bend Radius | Size   | Recommended |
|---------------------|--------|-------------|
|                     | 1/2"   | 3 inches    |
|                     | 3/4"   | 3 inches    |
|                     | 1"     | 3 inches    |
|                     | 1-1/4" | 5 inches    |
|                     | 1-1/2" | 6 inches    |
|                     | 2"     | 8 inches    |

### Friction Loss Data

| GPM | Nominal Size (ID) |       |       |        |        |       |
|-----|-------------------|-------|-------|--------|--------|-------|
|     | 1/2"              | 3/4"  | 1"    | 1-1/4" | 1-1/2" | 2"    |
| 1   | 0.032             | 0.004 | 0.002 | 0.001  | 0.000  | 0.000 |
| 2   | 0.114             | 0.015 | 0.005 | 0.002  | 0.001  | 0.000 |
| 3   | 0.241             | 0.032 | 0.012 | 0.004  | 0.001  | 0.000 |
| 4   | 0.41              | 0.055 | 0.020 | 0.008  | 0.002  | 0.001 |
| 5   | 0.619             | 0.083 | 0.030 | 0.011  | 0.003  | 0.001 |
| 6   | 0.867             | 0.117 | 0.042 | 0.016  | 0.004  | 0.001 |
| 7   | 1.153             | 0.155 | 0.055 | 0.021  | 0.005  | 0.002 |
| 8   | 1.476             | 0.199 | 0.071 | 0.027  | 0.007  | 0.002 |
| 9   |                   | 0.247 | 0.088 | 0.034  | 0.009  | 0.002 |
| 10  |                   | 0.301 | 0.107 | 0.041  | 0.010  | 0.003 |
| 15  |                   | 0.637 | 0.226 | 0.087  | 0.022  | 0.006 |
| 20  |                   | 1.084 | 0.386 | 0.147  | 0.038  | 0.011 |
| 25  |                   | 1.638 | 0.583 | 0.223  | 0.057  | 0.016 |
| 30  |                   |       | 0.816 | 0.312  | 0.080  | 0.023 |
| 35  |                   |       | 1.086 | 0.415  | 0.106  | 0.030 |
| 40  |                   |       |       | 0.531  | 0.136  | 0.039 |
| 45  |                   |       |       | 0.660  | 0.169  | 0.048 |
| 50  |                   |       |       |        | 0.206  | 0.059 |
| 60  |                   |       |       |        | 0.288  | 0.082 |
| 70  |                   |       |       |        | 0.383  | 0.110 |
| 80  |                   |       |       |        |        | 0.140 |
| 90  |                   |       |       |        |        | 0.175 |
| 100 |                   |       |       |        |        | 0.212 |
| 110 |                   |       |       |        |        | 0.253 |
| 120 |                   |       |       |        |        | 0.297 |

1. Table is based on the \*Hazen-Williams formula.
2. Fluid velocities in excess of 5 - 8 ft/sec are not recommended.
3. Friction loss values shown are for the flow rates that do not exceed a velocity of 8 ft/sec.

$$P = \frac{4.52Q^{1.85}}{C^{1.85} D^{4.85}}$$

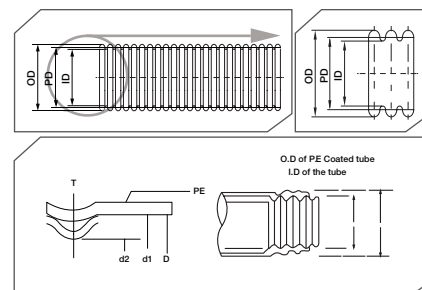
Where :

P= friction loss, psi per linear foot

Q= flow, gpm

D= average, ID, in inches

C= 70, friction constant



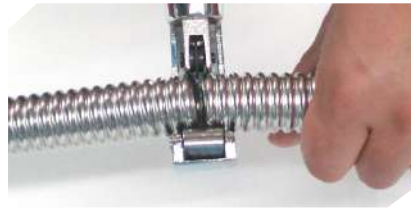
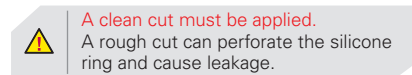
# VectorFlow

## Corrugated Stainless Steel Tubing Water Line System

### Installation Instructions

#### 1. Cut

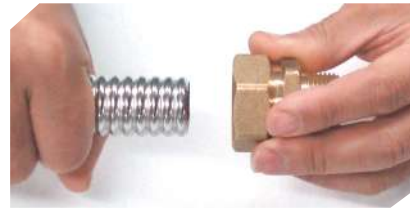
Determine the proper length of the tubing needed and cut to desired length. Cut a straight section that has not been bent.



Cut

#### 2. Connect

Remove nut and make sure all internal components are in place. Replace nut and insert tube completely into fitting until it seats on internal wall. (about 4~5 corrugations into the fitting)



Connect

#### 3. Tighten

Tighten the nut and body using appropriate torque (see table below). If done properly, resistance should increase greatly or nut will not turn after 1.5 turns.

| Tube size (ID) | 1/2"  | 3/4"  | 1"    | 1-1/4"  |
|----------------|-------|-------|-------|---------|
| Torque(ft-lbs) | 40~44 | 44~48 | 72~76 | 120~140 |



Tighten

### Standards & Listings

|               |                                                                                                                       |
|---------------|-----------------------------------------------------------------------------------------------------------------------|
| NSF/ANSI 61   | Drinking Water System Components - Health Effects                                                                     |
| NSF/ANSI 372  | Lead Content Compliance                                                                                               |
| ASTM A240     | Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications |
| ASTM D3350    | Polyethylene Injection and Extrusion Material                                                                         |
| ASTM DS-561   | Metals and alloys in the Unified Numbering System                                                                     |
| ASME B1.20.1  | Pipe Threads, General Purpose (Inch)                                                                                  |
| IAPMO IGC-233 | Corrugated Stainless Steel Hot- and Cold- Water Distribution Systems                                                  |

### Product Testing

|                        |                                                                                                                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hydrostatic Test       | Internal hydrostatic pressure increased to $220 \pm 7$ psi ( $1516 \pm 48$ kPa) or 1.5 times the rated pressure, whichever is greater, at the temperature of $68^\circ \pm 5^\circ$ F ( $20^\circ \pm 3^\circ$ C) for a period of 5 minutes. |
| Hydrostatic Burst Test | Internal hydrostatic pressure increased to $588 \pm 7$ psi ( $4051 \pm 48$ kPa) or 4 times that rated pressure, whichever is greater, at the temperature of $68^\circ \pm 5^\circ$ F ( $20^\circ \pm 3^\circ$ C) for a period of 5 minutes.  |
| Bending Test           | Bending motion being applied uniformly at the rate of 5-6 cycles per minute.                                                                                                                                                                 |
| Hydraulic Shock Test   | Subjected to a hydraulic shock for 2,000 cycles at $68^\circ$ F $\pm 5^\circ$ F. The Hydraulic shock shall consist of a sudden increase in pressure from 50 psi (345 kPa) to 284 psi (1967 kPa) lasting 1 second.                            |
| Vibration Test         | Filled with water. The amplitude of vibration was 0.2 inches and the frequency was 25 Hz for 3 hours.                                                                                                                                        |
| Flattening Test        | Pressed to 2/3 D height of the outer diameter until the tube is flat. No signs of cracks or leakage shall be found.                                                                                                                          |
| Impact Test            | An impact force of 9.76 to 15.19 lbf-ft was applied to various fitting sizes by using a hammer.                                                                                                                                              |
| Toxicity Test          | Conforms to NSF/ANSI 61 & 372                                                                                                                                                                                                                |



## Certificate of Compliance

Certificate: 2492723

Master Contract: 254883

Project: 2492723

Date Issued: April 5, 2012

Issued to: EasyFlex Inc.

1371 Santa Fe Dr.  
Tustin, CA 92780  
US

Attention: Hun Kim

*The products listed below are eligible to bear the CSA Mark shown*



NSF/ANSI 61  
Drinking Water

*Elaine Mantelos*

Issued by: Elaine Mantelos

### PRODUCTS

**CLASS 6861 04** - PIPES AND RELATED PRODUCTS - NSF/ANSI 61 SECTION 4 -  
Certified to NSF/ANSI 61

#### Materials Only (Hot 82°C)

##### Non-Insulated Corrugated Stainless Steel Tubing:

½" CSST: EW-012-050; EW-012-100; EW-012-150

¾" CSST: EW-034-050; EW-034-100; EW-034-150

1" CSST: EW-010-050; EW-010-100; EW-010-150

1 ¼" CSST: EW-114-050; EW-114-100; EW-114-150

##### CSST with PE Jacket (Blue or Red):

1/2" CSST: EW-012-050BL/RD; EW-012-100BL/RD; EW-012-150BL/RD

¾" CSST: EW-034-050BL/RD; EW-034-100BL/RD; EW-034-150BL/RD

1" CSST: EW-010-050BL/RD; EW-010-100BL/RD; EW-010-150BL/RD

# VectorFlow

## Corrugated Stainless Steel Tubing Water Line System

### VectorFlow CSST

- Tubing : Stainless Steel 304
- Max. Operating Temperature : 212° F
- Max. Operating Pressure : 147psi



| ID     | Part #     | Description       | U/M  | Price | Qty/ Box |
|--------|------------|-------------------|------|-------|----------|
| 1/2"   | EW-012-050 | 1/2" ID, 50 ft    | Roll |       |          |
| 1/2"   | EW-012-100 | 1/2" ID, 100 ft   | Roll |       |          |
| 1/2"   | EW-012-150 | 1/2" ID, 150 ft   | Roll |       |          |
| ID     | Part #     | Description       | U/M  | Price | Qty/ Box |
| 3/4"   | EW-034-050 | 3/4" ID, 50 ft    | Roll |       |          |
| 3/4"   | EW-034-100 | 3/4" ID, 100 ft   | Roll |       |          |
| 3/4"   | EW-034-150 | 3/4" ID, 150 ft   | Roll |       |          |
| ID     | Part #     | Description       | U/M  | Price | Qty/ Box |
| 1"     | EW-100-050 | 1" ID, 50 ft      | Roll |       |          |
| 1"     | EW-100-100 | 1" ID, 100 ft     | Roll |       |          |
| 1"     | EW-100-150 | 1" ID, 150 ft     | Roll |       |          |
| ID     | Part #     | Description       | U/M  | Price | Qty/ Box |
| 1-1/4" | EW-114-050 | 1-1/4" ID, 50 ft  | Roll |       |          |
| 1-1/4" | EW-114-100 | 1-1/4" ID, 100 ft | Roll |       |          |
| 1-1/4" | EW-114-150 | 1-1/4" ID, 150 ft | Roll |       |          |



### VectorFlow CSST | Blue PE Jacket

- Tubing : Stainless Steel 304
- Coating : Blue Polyethylene(PE)
- Coating Thickness: 0.02"
- Max. Operating Temperature : 212° F
- Max. Operating Pressure : 147psi



| ID     | Part #        | Description                         | U/M  | Price | Qty/ Box |
|--------|---------------|-------------------------------------|------|-------|----------|
| 1/2"   | EW-012-050 BL | 1/2" ID, W/ Blue PE Jacket 50 ft    | Roll |       |          |
| 1/2"   | EW-012-100 BL | 1/2" ID, W/ Blue PE Jacket 100 ft   | Roll |       |          |
| 1/2"   | EW-012-150 BL | 1/2" ID, W/ Blue PE Jacket 150 ft   | Roll |       |          |
| ID     | Part #        | Description                         | U/M  | Price | Qty/ Box |
| 3/4"   | EW-034-050 BL | 3/4" ID, W/ Blue PE Jacket 50 ft    | Roll |       |          |
| 3/4"   | EW-034-100 BL | 3/4" ID, W/ Blue PE Jacket 100 ft   | Roll |       |          |
| 3/4"   | EW-034-150 BL | 3/4" ID, W/ Blue PE Jacket 150 ft   | Roll |       |          |
| ID     | Part #        | Description                         | U/M  | Price | Qty/ Box |
| 1"     | EW-100-050 BL | 1" ID, W/ Blue PE Jacket 50 ft      | Roll |       |          |
| 1"     | EW-100-100 BL | 1" ID, W/ Blue PE Jacket 100 ft     | Roll |       |          |
| 1"     | EW-100-150 BL | 1" ID, W/ Blue PE Jacket 150 ft     | Roll |       |          |
| ID     | Part #        | Description                         | U/M  | Price | Qty/ Box |
| 1-1/4" | EW-114-050 BL | 1-1/4" ID, W/ Blue PE Jacket 50 ft  | Roll |       |          |
| 1-1/4" | EW-114-100 BL | 1-1/4" ID, W/ Blue PE Jacket 100 ft | Roll |       |          |
| 1-1/4" | EW-114-150 BL | 1-1/4" ID, W/ Blue PE Jacket 150 ft | Roll |       |          |



# VectorFlow

## Corrugated Stainless Steel Tubing Water Line System

### VectorFlow CSST | Red PE Jacket

- Tubing : Stainless Steel 304
- Coating : Red Polyethylene (PE)
- Coating Thickness: 0.02"

- Max. Operating Temperature : 212° F
- Max. Operating Pressure : 147psi



| ID     | Part #        | Description                 | U/M    | Price | Qty/ Box |
|--------|---------------|-----------------------------|--------|-------|----------|
| 1/2"   | EW-012-050 RD | 1/2" ID, W/ Red PE Jacket   | 50 ft  | Roll  |          |
| 1/2"   | EW-012-100 RD | 1/2" ID, W/ Red PE Jacket   | 100 ft | Roll  |          |
| 1/2"   | EW-012-150 RD | 1/2" ID, W/ Red PE Jacket   | 150 ft | Roll  |          |
| ID     | Part #        | Description                 | U/M    | Price | Qty/ Box |
| 3/4"   | EW-034-050 RD | 3/4" ID, W/ Red PE Jacket   | 50 ft  | Roll  |          |
| 3/4"   | EW-034-100 RD | 3/4" ID, W/ Red PE Jacket   | 100 ft | Roll  |          |
| 3/4"   | EW-034-150 RD | 3/4" ID, W/ Red PE Jacket   | 150 ft | Roll  |          |
| ID     | Part #        | Description                 | U/M    | Price | Qty/ Box |
| 1"     | EW-100-050 RD | 1" ID, W/ Red PE Jacket     | 50 ft  | Roll  |          |
| 1"     | EW-100-100 RD | 1" ID, W/ Red PE Jacket     | 100 ft | Roll  |          |
| 1"     | EW-100-150 RD | 1" ID, W/ Red PE Jacket     | 150 ft | Roll  |          |
| ID     | Part #        | Description                 | U/M    | Price | Qty/ Box |
| 1-1/4" | EW-114-050 RD | 1-1/4" ID, W/ Red PE Jacket | 50 ft  | Roll  |          |
| 1-1/4" | EW-114-100 RD | 1-1/4" ID, W/ Red PE Jacket | 100 ft | Roll  |          |
| 1-1/4" | EW-114-150 RD | 1-1/4" ID, W/ Red PE Jacket | 150 ft | Roll  |          |

# VectorFlow

## Corrugated Stainless Steel Tubing Water Line System

### VectorFlow CSST | Manifolds

#### 034 Manifold

- Material: Stainless Steel 304
- Connection: Threaded

| Part #        | Description                             | U/M | Price | Qty/ Box |
|---------------|-----------------------------------------|-----|-------|----------|
| EW-MFD-034-01 | Manifold, 1/2" (3) Ports, 3/4"F x 3/4"F | EA  |       | 15       |
| EW-MFD-034-02 | Manifold, 1/2" (4) Ports, 3/4"F x 3/4"F | EA  |       | 15       |



#### 100 Manifold

- Material: Stainless Steel 304
- Connection: Threaded

| Part #        | Description                         | U/M | Price | Qty/ Box |
|---------------|-------------------------------------|-----|-------|----------|
| EW-MFD-100-01 | Manifold, 1/2" (3) Ports, 1"F x 1"F | EA  |       | 10       |
| EW-MFD-100-02 | Manifold, 1/2" (4) Ports, 1"F x 1"F | EA  |       | 10       |
| EW-MFD-100-03 | Manifold, 3/4" (3) Ports, 1"F x 1"F | EA  |       | 10       |
| EW-MFD-100-04 | Manifold, 3/4" (4) Ports, 1"F x 1"F | EA  |       | 10       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops



## *QuickSnap™ Brass Fittings*

Semi push-fit fittings for the VectorFlow Water CSST that eliminate all the hassles of threading, welding, or gluing connections. Simply push the tube into the fitting and tighten. It's that easy.



# QuickSnap™ Brass Fittings for VectorFlex™ Water CSST

## Applications

- Water Distribution Systems
- Boilers
- Water Heaters
- Solar Thermal Systems
- Tankless Water Heaters

## Benefits

- Semi Push-Fit Design
- Reduced Labor Costs
- Resistant to Scaling & Corrosion
- No Special Tools Required
- Versatility of Application

## Certifications & Approvals

- IAPMO/ UPC Certified
- NSF 61 Compliant
- NSF 372 Compliant : Lead-Free



## Materials

|                     |                                 |
|---------------------|---------------------------------|
| Body/ Nut           | Brass UNS C 37700 (ASTM DS-561) |
| Lead-Free Body/ Nut | Brass UNS C 46500 (ASTM B171)   |
| Sealing Ring        | Silicone                        |
| Isolation Ring      | Nylon 66                        |

## Technical Specifications

|                        |                                    |
|------------------------|------------------------------------|
| Sizes                  | 1/2", 3/4", 1", 1-1/4", 1-1/2", 2" |
| Rated Working Pressure | 147 psi                            |

Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Stub  
Couplings

Flexible  
Sprinkler  
Drops

# Lead-Free QuickSnap Brass Fittings



## Lead-Free Straight Male

- Brass UNS C 46500 (ASTM B171)
- Sealing Ring-Silicone
- Isolation Ring-Nylon 66



| Part #     | Description                    | U/M | Price | Qty/ Box |
|------------|--------------------------------|-----|-------|----------|
| EFW-012-ST | 1/2" MIP, Lead-Free Straight   | EA  |       |          |
| EFW-034-ST | 3/4" MIP, Lead-Free Straight   | EA  |       |          |
| EFW-100-ST | 1" MIP, Lead-Free Straight     | EA  |       |          |
| EFW-114-ST | 1-1/4" MIP, Lead-Free Straight | EA  |       |          |



## Lead-Free Straight Female

- Brass UNS C 46500 (ASTM B171)
- Sealing Ring-Silicone
- Isolation Ring-Nylon 66



| Part #     | Description                    | U/M | Price | Qty/ Box |
|------------|--------------------------------|-----|-------|----------|
| EFW-012-SF | 1/2" FIP, Lead-Free Straight   | EA  |       |          |
| EFW-034-SF | 3/4" FIP, Lead-Free Straight   | EA  |       |          |
| EFW-100-SF | 1" FIP, Lead-Free Straight     | EA  |       |          |
| EFW-114-SF | 1-1/4" FIP, Lead-Free Straight | EA  |       |          |



## Lead-Free Copper Sweat Adapter

- Brass UNS C 46500 (ASTM B171)
- Sealing Ring-Silicone
- Isolation Ring-Nylon 66



| Part #     | Description                     | U/M | Price | Qty/ Box |
|------------|---------------------------------|-----|-------|----------|
| EFW-012-SW | 1/2", Lead-Free Sweat Adapter   | EA  |       |          |
| EFW-034-SW | 3/4", Lead-Free Sweat Adapter   | EA  |       |          |
| EFW-100-SW | 1", Lead-Free Sweat Adapter     | EA  |       |          |
| EFW-114-SW | 1-1/4", Lead-Free Sweat Adapter | EA  |       |          |

# QuickSnap Brass Fittings

## Straight Male

- Brass UNS C37700 (ASTM DS-561)
- Sealing Ring-Silicone
- Isolation Ring-Nylon 66



| Part #     | Description                        | U/M | Price | Qty/ Box |
|------------|------------------------------------|-----|-------|----------|
| EFS-012-ST | 1/2" MIP, Straight Brass Adapter   | EA  |       |          |
| EFS-034-ST | 3/4" MIP, Straight Brass Adapter   | EA  |       |          |
| EFS-100-ST | 1" MIP, Straight Brass Adapter     | EA  |       |          |
| EFS-114-ST | 1-1/4" MIP, Straight Brass Adapter | EA  |       |          |



## Straight Female

- Brass UNS C37700 (ASTM DS-561)
- Sealing Ring-Silicone
- Isolation Ring-Nylon 66



| Part #     | Description                        | U/M | Price | Qty/ Box |
|------------|------------------------------------|-----|-------|----------|
| EFS-012-SF | 1/2" FIP, Straight Brass Adapter   | EA  |       |          |
| EFS-034-SF | 3/4" FIP, Straight Brass Adapter   | EA  |       |          |
| EFS-100-SF | 1" FIP, Straight Brass Adapter     | EA  |       |          |
| EFS-114-SF | 1-1/4" FIP, Straight Brass Adapter | EA  |       |          |



## Copper Sweat Adapter

- Brass UNS C37700 (ASTM DS-561)
- Sealing Ring-Silicone
- Isolation Ring-Nylon 66



| Part #     | Description                          | U/M | Price | Qty/ Box |
|------------|--------------------------------------|-----|-------|----------|
| EFS-012-SW | 1/2" Sweat, Straight Brass Adapter   | EA  |       |          |
| EFS-034-SW | 3/4" Sweat, Straight Brass Adapter   | EA  |       |          |
| EFS-100-SW | 1" Sweat, Straight Brass Adapter     | EA  |       |          |
| EFS-114-SW | 1-1/4" Sweat, Straight Brass Adapter | EA  |       |          |



## COUPLING / UNION

- Brass UNS C37700 (ASTM DS-561)
- Sealing Ring-Silicone
- Isolation Ring-Nylon 66



| Part #     | Description                             | U/M | Price | Qty/ Box |
|------------|-----------------------------------------|-----|-------|----------|
| EFS-012-CP | 1/2" Coupling, Straight Brass Adapter   | EA  |       |          |
| EFS-034-CP | 3/4" Coupling, Straight Brass Adapter   | EA  |       |          |
| EFS-100-CP | 1" Coupling, Straight Brass Adapter     | EA  |       |          |
| EFS-114-CP | 1-1/4" Coupling, Straight Brass Adapter | EA  |       |          |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# QuickSnap Brass Fittings



## Push-Fit Coupling

- Body / Nut : Brass UNS C37700 (ASTM DS-561)
- Push-Fit Nut : Nylon 66
- Push-Fit Sealing Ring : EPDM
- Push-Fit Grab Ring : Stainless Steel 304



| Part #        | Description   | U/M | Price | Qty/ Box |
|---------------|---------------|-----|-------|----------|
| EFS-012-EC-CP | 1/2" Push-Fit | EA  |       |          |
| EFS-034-EC-CP | 3/4" Push-Fit | EA  |       |          |
| EFS-100-EC-CP | 1" Push-Fit   | EA  |       |          |



## Reducing Coupling

- Brass UNS C37700 (ASTM DS-561)
- Sealing Ring-Silicone
- Isolation Ring-Nylon 66



| Part #          | Description                   | U/M | Price | Qty/ Box |
|-----------------|-------------------------------|-----|-------|----------|
| EFS-034-RCP-012 | 3/4" x 1/2" Reducing Coupling | EA  |       |          |
| EFS-100-RCP-012 | 1" x 1/2" Reducing Coupling   | EA  |       |          |
| EFS-100-RCP-034 | 1" x 3/4" Reducing Coupling   | EA  |       |          |



## Female Elbow

- Brass UNS C37700 (ASTM DS-561)
- Sealing Ring-Silicone
- Isolation Ring-Nylon 66



| Part #     | Description           | U/M | Price | Qty/ Box |
|------------|-----------------------|-----|-------|----------|
| EFS-012-EL | 1/2" 90° Female Elbow | EA  |       |          |
| EFS-034-EL | 3/4" 90° Female Elbow | EA  |       |          |
| EFS-100-EL | 1" 90° Female Elbow   | EA  |       |          |



## Tee

- Brass UNS C37700 (ASTM DS-561)
- Sealing Ring-Silicone
- Isolation Ring-Nylon 66



| Part #    | Description | U/M | Price | Qty/ Box |
|-----------|-------------|-----|-------|----------|
| EFS-012-T | 1/2" Tee    | EA  |       |          |
| EFS-034-T | 3/4" Tee    | EA  |       |          |
| EFS-100-T | 1" Tee      | EA  |       |          |

# QuickSnap Brass Fittings

## Reducing Tee

- Brass UNS C37700 (ASTM DS-561)
- Sealing Ring-Silicone
- Isolation Ring-Nylon 66



| Part #         | Description                   | U/M | Price | Qty/ Box |
|----------------|-------------------------------|-----|-------|----------|
| EFS-034-RT-012 | 3/4" x 1/2" (T), Reducing Tee | EA  |       |          |
| EFS-100-RT-012 | 1" x 1/2" (T), Reducing Tee   | EA  |       |          |
| EFS-100-RT-034 | 1" x 3/4" (T), Reducing Tee   | EA  |       |          |



## Female Tee

- Brass UNS C37700 (ASTM DS-561)
- Sealing Ring-Silicone
- Isolation Ring-Nylon 66



| Part #     | Description     | U/M | Price | Qty/ Box |
|------------|-----------------|-----|-------|----------|
| EFS-012-FT | 1/2" Female Tee | EA  |       |          |
| EFS-034-FT | 3/4" Female Tee | EA  |       |          |
| EFS-100-FT | 1" Female Tee   | EA  |       |          |



## Reducing Female Tee

- Brass UNS C37700 (ASTM DS-561)
- Sealing Ring-Silicone
- Isolation Ring-Nylon 66



| Part #          | Description                          | U/M | Price | Qty/ Box |
|-----------------|--------------------------------------|-----|-------|----------|
| EFS-034-FRT-012 | 3/4" x 1/2" (T), Reducing Female Tee | EA  |       |          |
| EFS-100-FRT-012 | 1" x 1/2" (T), Reducing Female Tee   | EA  |       |          |
| EFS-100-FRT-034 | 1" x 3/4" (T), Reducing Female Tee   | EA  |       |          |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

## QuickSnap Brass Fittings - Parts



### Isolation Ring

- Isolation Ring-Formulated Fiber Glass w/ Nylon 66
- Temperature Rating : 350° F
- Application : High Performance Solar Thermal System

| Part #     | Description                      | U/M | Price | Qty/ Bag |
|------------|----------------------------------|-----|-------|----------|
| EFS-IR-012 | 1/2" High Temp. Isolation Ring   | EA  |       | 100      |
| EFS-IR-034 | 3/4" High Temp. Isolation Ring   | EA  |       | 100      |
| EFS-IR-100 | 1" High Temp. Isolation Ring     | EA  |       | 100      |
| EFS-IR-114 | 1-1/4" High Temp. Isolation Ring | EA  |       | 100      |



### Isolation Ring

- Isolation Ring-Formulated Fiber Glass w/ Nylon 66
- Temperature Rating : 300° F
- Application : Solar Thermal System

| Part #     | Description           | U/M | Price | Qty/ Bag |
|------------|-----------------------|-----|-------|----------|
| EFW-IR-012 | 1/2" Isolation Ring   | EA  |       | 100      |
| EFW-IR-034 | 3/4" Isolation Ring   | EA  |       | 100      |
| EFW-IR-100 | 1" Isolation Ring     | EA  |       | 100      |
| EFW-IR-114 | 1-1/4" Isolation Ring | EA  |       | 100      |



### Isolation Ring

- Teeth Ring : Stainless Steel
- Spacer : Formulated Fiber Glass w/ Nylon
- Temperature Rating : 300° F

| Part #     | Description                                      | U/M | Price | Qty/ Bag |
|------------|--------------------------------------------------|-----|-------|----------|
| EFM-IR-012 | 1/2" High Temp. Stainless Steel Isolation Ring   | EA  |       | 100      |
| EFM-IR-034 | 3/4" High Temp. Stainless Steel Isolation Ring   | EA  |       | 100      |
| EFM-IR-100 | 1" High Temp. Stainless Steel Isolation Ring     | EA  |       | 100      |
| EFM-IR-114 | 1-1/4" High Temp. Stainless Steel Isolation Ring | EA  |       | 100      |



### Sealing Ring

- Sealing Ring-Silicone
- Temperature Rating : 250° F

| Part #     | Description         | U/M | Price | Qty/ Bag |
|------------|---------------------|-----|-------|----------|
| EFW-SR-012 | 1/2" Sealing Ring   | EA  |       | 100      |
| EFW-SR-034 | 3/4" Sealing Ring   | EA  |       | 100      |
| EFW-SR-100 | 1" Sealing Ring     | EA  |       | 100      |
| EFW-SR-114 | 1-1/4" Sealing Ring | EA  |       | 100      |

# VectorFlow Full Port Ball Valves

## Sealing Ring

- High Temperature Graded Silicone
- Application : High Temperature Solar Thermal System

| Part #     | Description                    | U/M | Price | Qty/ Box |
|------------|--------------------------------|-----|-------|----------|
| EFS-SR-012 | 1/2" High Temp. Sealing Ring   | EA  |       | 100      |
| EFS-SR-034 | 3/4" High Temp. Sealing Ring   | EA  |       | 100      |
| EFS-SR-100 | 1" High Temp. Sealing Ring     | EA  |       | 100      |
| EFS-SR-114 | 1-1/4" High Temp. Sealing Ring | EA  |       | 100      |



## Ball Valve | FIP x Flex

- 150 WSP
- 400 WOG
- Rubber Coated Steel Lever
- Ball Disc Packing : PTFE Seal

| Part #      | Description | U/M | Price | Qty/ Box |
|-------------|-------------|-----|-------|----------|
| EFW-BVF-012 | 1/2" FIP    | EA  |       |          |
| EFW-BVF-034 | 3/4" FIP    | EA  |       |          |
| EFW-BVF-100 | 1" FIP      | EA  |       |          |



## Ball Valve | MIP x Flex

- 150 WSP
- 400 WOG
- Rubber Coated Steel Lever
- Ball Disc Packing : PTFE Seal

| Part #      | Description | U/M | Price | Qty/ Box |
|-------------|-------------|-----|-------|----------|
| EFW-BVM-012 | 1/2" MIP    | EA  |       |          |
| EFW-BVM-034 | 3/4" MIP    | EA  |       |          |
| EFW-BVM-100 | 1" MIP      | EA  |       |          |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops



## ***Braided Stainless Steel Water Connectors***

Burst-free, lead-free, and hassle-free water connectors for all plumbing applications.



## Braided Stainless Steel Water Connectors

### Applications

- Faucets
- Toilets
- Dishwashers
- Ice Makers
- Washing Machines

### Benefits

- Reduced Labor Costs
- Burst-Free
- No Special Tools Required
- Variety of Connections
- Environmentally Safe

### Certifications & Approvals

- cUPC / NSF 61 Compliant for safe drinking water
- NSF 372 Compliant : Lead-Free
- ASME A 112.18.6-2009 / CSA B 125.6-2009



### Materials

|            |                             |
|------------|-----------------------------|
| Jacket     | Braided Stainless Steel 304 |
| Inner Hose | Reinforced PVC              |
| Fittings   | Chrome-Plated Brass         |

### Technical Specifications

|                   |                                    |
|-------------------|------------------------------------|
| Rated Temperature | -40° F to 180° F (-40° C to 82° C) |
| Maximum Pressure  | 125 psi (8.6 bar)                  |

Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

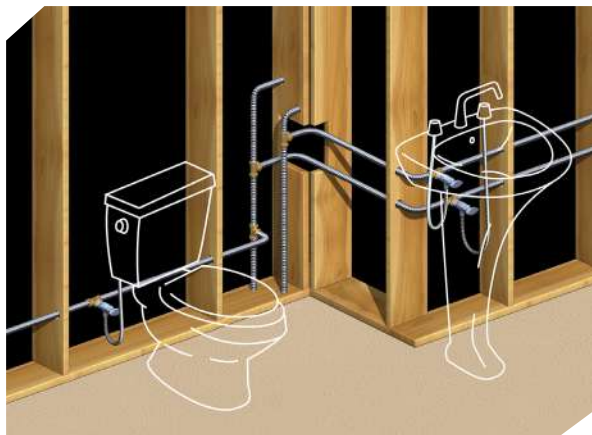
Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

## Braided Stainless Steel Water Connectors

Easyflex braided water connectors can be used for commercial or residential applications. Easyflex offers a complete line of flexible water connectors that are built to last. Durable lead-free connectors are chosen by professional plumbers.



### No Special Tools Required!

- Durable, flexible water connector features reinforced PVC inner hose, braided with stainless steel.
- Requires no cutting or soldering during installation.
- Chrome plated brass hex nuts for corrosion resistance
- Nut-to-hose connection with 12-sided pneumatic crimp
- EPDM gasket helps provide a water-tight connection.

### Parts Numbering System

EF - FC - 38C12F - 12

APPLICATION

FITTINGS

LENGTH

#### APPLICATION

| Part# | Size (ID)                 |
|-------|---------------------------|
| FC    | FAUCET CONNECTOR          |
| TC    | TOILET CONNECTOR          |
| IC    | ICE MAKER CONNECTOR       |
| WM    | WASHING MACHINE CONNECTOR |
| DC    | DISHWASHER CONNECTOR      |

#### FITTINGS

| Part# | Size (ID)               |
|-------|-------------------------|
| 14C   | 1/4" COMPRESSION        |
| 38C   | 3/8" COMPRESSION        |
| 12C   | 1/2" COMPRESSION        |
| 12F   | 1/2" FIP                |
| MBC   | 7/8" METAL BALLCOCK     |
| BC    | 7/8" BALLCOCK           |
| DT    | DELTA TYPE              |
| 34HB  | 3/4" GARDEN HOSE THREAD |
| 38L   | 3/8" ELBOW              |
| HBL   | 3/4" GARDEN HOSE ELBOW  |

#### LENGTH

Standard Lengths

ALL IN INCHES EXCEPT ICE MAKER (FT)

# Braided Stainless Steel Water Connectors

## IAPMO RESEARCH AND TESTING, INC.

5001 East Philadelphia Street, Ontario, California 91761-2816 • (909) 472-4100 Fax (909) 472-4244 • www.iapmo.org



### CERTIFICATE OF LISTING

IAPMO Research and Testing, Inc. is a product certification body which tests and inspects samples taken from the supplier's stock or from the market or a combination of both to verify compliance to the requirements of applicable codes and standards. This activity is coupled with periodic surveillance of the supplier's factory and warehouses as well as the assessment of the supplier's Quality Assurance System. This listing is subject to the conditions set forth in the characteristics below and is not to be construed as any recommendation, assurance or guarantee by IAPMO Research and Testing, Inc. of the product acceptance by Authorities Having Jurisdiction.

Effective Date: October 2013 -Rev. 10/28/2013- Void After: October 2014  
Product: Flexible Metallic Water Connectors File No. K-8333

Issued To: Easyflex  
1371 Santa Fe Drive  
Tustin, CA 92780

Identification: All connectors shall have the manufacturer's name or trademark on nuts and fittings. An acceptable label shall be placed on tubing showing size, model, manufacturer's name or trademark and the cUPC® certification mark. SPECIAL NOTE ON LABEL: "For use with water in accessible locations only."

Characteristics: Corrugated flexible metallic water connectors can be field fabricated or prefabricated for use in accessible locations with other IAPMO listed fittings. Connectors are manufactured with end fittings and dielectric bushings, or seat or barbed ends to connect water devices to the water supply. To be installed in accordance with the manufacturer's instructions, and the requirements of the latest edition of the Uniform Plumbing Code.

Products listed on this certificate have been tested by an IAPMO R&T recognized laboratory. This recognition has been granted based upon the laboratory's compliance to the applicable requirements of ISO/IEC 17025.

Products are in compliance with the following code(s):  
Uniform Plumbing Code (UPC®)  
National Plumbing Code of Canada

Chairman, Product Certification Committee

CEO, The IAPMO Group



This listing period is based upon the last date of the month indicated on the Effective Date and Void After Date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of the Product Certification Committee, or any evidence of non-compliance with applicable codes and standards or of inferior workmanship, may be deemed sufficient cause for revocation of this listing. Production of or reference to this form for advertising purposes may be made only by specific written permission of IAPMO Research and Testing, Inc. Any alteration of this certificate could be grounds for revocation of the listing.

Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# Braided Stainless Steel *Water Connectors*



## FAUCET Connector 1/2" FIP x 1/2" FIP

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)



| Part #          | Description                                         | U/M | Price | Qty/ Box |
|-----------------|-----------------------------------------------------|-----|-------|----------|
| EF-FC-12F12F-12 | SS Braided Faucet Connector, 1/2"FIP x 1/2"FIP, 12" | EA  |       | 50       |
| EF-FC-12F12F-16 | SS Braided Faucet Connector, 1/2"FIP x 1/2"FIP, 16" | EA  |       | 50       |
| EF-FC-12F12F-20 | SS Braided Faucet Connector, 1/2"FIP x 1/2"FIP, 20" | EA  |       | 50       |
| EF-FC-12F12F-24 | SS Braided Faucet Connector, 1/2"FIP x 1/2"FIP, 24" | EA  |       | 50       |
| EF-FC-12F12F-30 | SS Braided Faucet Connector, 1/2"FIP x 1/2"FIP, 30" | EA  |       | 50       |



## FAUCET Connector 1/2" Compression x 1/2" FIP

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)



| Part #          | Description                                       | U/M | Price | Qty/ Box |
|-----------------|---------------------------------------------------|-----|-------|----------|
| EF-FC-12C12F-12 | SS Braided Faucet Connector, 1/2"C x 1/2"FIP, 12" | EA  |       | 50       |
| EF-FC-12C12F-16 | SS Braided Faucet Connector, 1/2"C x 1/2"FIP, 16" | EA  |       | 50       |
| EF-FC-12C12F-20 | SS Braided Faucet Connector, 1/2"C x 1/2"FIP, 20" | EA  |       | 50       |



## FAUCET Connector 3/8" Compression x 3/8" Compression

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)



| Part #          | Description                                     | U/M | Price | Qty/ Box |
|-----------------|-------------------------------------------------|-----|-------|----------|
| EF-FC-38C38C-9  | SS Braided Faucet Connector, 3/8"C x 3/8"C, 9"  | EA  |       | 50       |
| EF-FC-38C38C-12 | SS Braided Faucet Connector, 3/8"C x 3/8"C, 12" | EA  |       | 50       |
| EF-FC-38C38C-16 | SS Braided Faucet Connector, 3/8"C x 3/8"C, 16" | EA  |       | 50       |
| EF-FC-38C38C-20 | SS Braided Faucet Connector, 3/8"C x 3/8"C, 20" | EA  |       | 50       |
| EF-FC-38C38C-24 | SS Braided Faucet Connector, 3/8"C x 3/8"C, 24" | EA  |       | 50       |
| EF-FC-38C38C-30 | SS Braided Faucet Connector, 3/8"C x 3/8"C, 30" | EA  |       | 50       |



## FAUCET Connector 3/8" Compression x Delta Type

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)



| Part #        | Description                                          | U/M | Price | Qty/ Box |
|---------------|------------------------------------------------------|-----|-------|----------|
| EF-FC-38DT-12 | SS Braided Faucet Connector, 3/8"C x Delta Type, 12" | EA  |       | 50       |
| EF-FC-38DT-16 | SS Braided Faucet Connector, 3/8"C x Delta Type, 16" | EA  |       | 50       |
| EF-FC-38DT-20 | SS Braided Faucet Connector, 3/8"C x Delta Type, 20" | EA  |       | 50       |

# Braided Stainless Steel Water Connectors

## FAUCET Connector 3/8" Compression x 1/2" FIP

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)



| Part #          | Description                                       | U/M | Price | Qty/ Box |
|-----------------|---------------------------------------------------|-----|-------|----------|
| EF-FC-38C12F-9  | SS Braided Faucet Connector, 3/8"C x 1/2"FIP, 9"  | EA  |       | 50       |
| EF-FC-38C12F-12 | SS Braided Faucet Connector, 3/8"C x 1/2"FIP, 12" | EA  |       | 50       |
| EF-FC-38C12F-16 | SS Braided Faucet Connector, 3/8"C x 1/2"FIP, 16" | EA  |       | 50       |
| EF-FC-38C12F-20 | SS Braided Faucet Connector, 3/8"C x 1/2"FIP, 20" | EA  |       | 50       |
| EF-FC-38C12F-24 | SS Braided Faucet Connector, 3/8"C x 1/2"FIP, 24" | EA  |       | 50       |
| EF-FC-38C12F-30 | SS Braided Faucet Connector, 3/8"C x 1/2"FIP, 30" | EA  |       | 50       |
| EF-FC-38C12F-36 | SS Braided Faucet Connector, 3/8"C x 1/2"FIP, 36" | EA  |       | 50       |



## ICE MAKER Connector 1/4" Compression x 1/4" Compression

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)



| Part #          | Description                                           | U/M | Price | Qty/ Box |
|-----------------|-------------------------------------------------------|-----|-------|----------|
| EF-IC-14C14C-5  | SS Braided Ice Maker Connector, 1/4"C x 1/4" C, 5 ft  | EA  |       | 50       |
| EF-IC-14C14C-6  | SS Braided Ice Maker Connector, 1/4"C x 1/4" C, 6 ft  | EA  |       | 50       |
| EF-IC-14C14C-10 | SS Braided Ice Maker Connector, 1/4"C x 1/4" C, 10 ft | EA  |       | 25       |



## WASHING MACHINE Connector 3/4" Hose Bibb

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)



| Part #        | Description                                       | U/M | Price | Qty/ Box |
|---------------|---------------------------------------------------|-----|-------|----------|
| EF-WM-34HB-48 | SS Braided Washing Machine Connector, 3/4"HB, 48" | EA  |       | 25       |
| EF-WM-34HB-60 | SS Braided Washing Machine Connector, 3/4"HB, 60" | EA  |       | 25       |
| EF-WM-34HB-72 | SS Braided Washing Machine Connector, 3/4"HB, 72" | EA  |       | 25       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

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Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

## Braided Stainless Steel *Water* Connectors



### TOILET Connector 3/8" Compression x 7/8" Ballcock

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)



| Part #         | Description                                      | U/M | Price | Qty/ Box |
|----------------|--------------------------------------------------|-----|-------|----------|
| EF-TC-38CBC-9  | SS Braided Toilet Connector, 3/8"C x 7/8"BC, 9"  | EA  |       | 50       |
| EF-TC-38CBC-12 | SS Braided Toilet Connector, 3/8"C x 7/8"BC, 12" | EA  |       | 50       |
| EF-TC-38CBC-16 | SS Braided Toilet Connector, 3/8"C x 7/8"BC, 16" | EA  |       | 50       |
| EF-TC-38CBC-20 | SS Braided Toilet Connector, 3/8"C x 7/8"BC, 20" | EA  |       | 50       |



### TOILET Connector 3/8" Compression x 7/8" Metal Ballcock

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)



| Part #          | Description                                             | U/M | Price | Qty/ Box |
|-----------------|---------------------------------------------------------|-----|-------|----------|
| EF-TC-38CMBC-9  | SS Braided Toilet Connector, 3/8"C x 7/8" Metal BC, 9"  | EA  |       | 50       |
| EF-TC-38CMBC-12 | SS Braided Toilet Connector, 3/8"C x 7/8" Metal BC, 12" | EA  |       | 50       |
| EF-TC-38CMBC-16 | SS Braided Toilet Connector, 3/8"C x 7/8" Metal BC, 16" | EA  |       | 50       |
| EF-TC-38CMBC-20 | SS Braided Toilet Connector, 3/8"C x 7/8" Metal BC, 20" | EA  |       | 50       |



### TOILET Connector 1/2" FIP x 7/8" Ballcock

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)



| Part #         | Description                                        | U/M | Price | Qty/ Box |
|----------------|----------------------------------------------------|-----|-------|----------|
| EF-TC-12FBC-12 | SS Braided Toilet Connector, 1/2"FIP x 7/8"BC, 12" | EA  |       | 50       |
| EF-TC-12FBC-16 | SS Braided Toilet Connector, 1/2"FIP x 7/8"BC, 16" | EA  |       | 50       |
| EF-TC-12FBC-20 | SS Braided Toilet Connector, 1/2"FIP x 7/8"BC, 20" | EA  |       | 50       |

# Braided Stainless Steel Water Connectors

## DISHWASHER Connector 3/8" Compression x 3/8" Compression

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)



| Part #          | Description                                         | U/M | Price | Qty/ Box |
|-----------------|-----------------------------------------------------|-----|-------|----------|
| EF-DC-38C38C-48 | SS Braided Dishwasher Connector, 3/8"C x 3/8"C, 48" | EA  |       | 50       |
| EF-DC-38C38C-60 | SS Braided Dishwasher Connector, 3/8"C x 3/8"C, 60" | EA  |       | 50       |
| EF-DC-38C38C-72 | SS Braided Dishwasher Connector, 3/8"C x 3/8"C, 72" | EA  |       | 50       |



## DISHWASHER Connector 3/8" Compression x 3/8" Elbow

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)



| Part #          | Description                                          | U/M | Price | Qty/ Box |
|-----------------|------------------------------------------------------|-----|-------|----------|
| EF-DC-38C38L-48 | SS Braided Dishwasher Connector, 3/8"C x 3/8"EL, 48" | EA  |       | 50       |
| EF-DC-38C38L-60 | SS Braided Dishwasher Connector, 3/8"C x 3/8"EL, 60" | EA  |       | 50       |
| EF-DC-38C38L-72 | SS Braided Dishwasher Connector, 3/8"C x 3/8"EL, 72" | EA  |       | 50       |
| EF-DC-38C38L-96 | SS Braided Dishwasher Connector, 3/8"C x 3/8"EL, 96" | EA  |       | 50       |



## DISHWASHER Connector 1/2" Compression x 3/8" Elbow

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)



| Part #          | Description                                          | U/M | Price | Qty/ Box |
|-----------------|------------------------------------------------------|-----|-------|----------|
| EF-DC-12C38L-60 | SS Braided Dishwasher Connector, 1/2"C x 3/8"EL, 60" | EA  |       | 50       |



## DISHWASHER Connector 3/8" Compression x 3/4" Hose Bibb Elbow

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)



| Part #          | Description                                                 | U/M | Price | Qty/ Box |
|-----------------|-------------------------------------------------------------|-----|-------|----------|
| EF-DC-38CHBL-48 | SS Braided Dishwasher Connector, 3/8"C x 3/4" GH Elbow, 48" | EA  |       | 50       |
| EF-DC-38CHBL-60 | SS Braided Dishwasher Connector, 3/8"C x 3/4" GH Elbow, 60" | EA  |       | 50       |
| EF-DC-38CHBL-72 | SS Braided Dishwasher Connector, 3/8"C x 3/4" GH Elbow, 72" | EA  |       | 50       |



Gas  
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Commercial  
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Supply stop  
Valve

Water  
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Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Stub  
Couplings

Flexible  
Sprinkler  
Drops



**Lead -free**

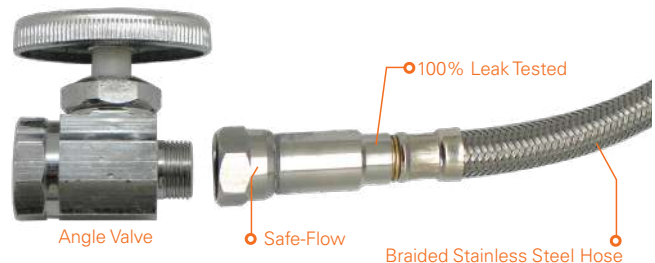
## ***NEW Braided Stainless Steel Safe-flow Water Connector***

Prevents unexpected water damage from a burst of hose or excessive flow of water.

The Easyflex Safe-Flow EFV is our new supply line with a built-in excess flow valve that can be installed between angle stop and fixture. This unique valve automatically activates to prevent water damage caused by breakage, bursts or excessive water flow.

- Minimum Flow: 2.0 gpm
- Shut-off Flow: 2.5 - 3.5 gpm

- UPC / NSF 61 Compliant
- NSF 372 Compliant : Lead-Free
- ASME A 112.18.6-2009 / CSA B 125.6-2009



### **Resetting Safe-Flow**

To reset Safe-Flow, check to see if the supply line is not damaged, then simply turn on the water supply valve.

### **Available Applications**

Faucets / Toilets / Dishwashers / Washing Machines / Ice Makers

# Braided Stainless Steel **Safe-flow** Water Connectors

**Safe-flow**



## TEST REPORT

5001 East Philadelphia Street  
Ontario, California - USA 91761-2816  
Ph: 909.472.4100 | Fax: 909.472.4243  
<http://www.iapmortl.org>

**Report Number:** 885-13015

**Report Issued:** October 31, 2013

**Project No.:** 22347

**Client:** Kofulso  
377-8 Gum Gok-Dong Seo-Gu  
Incheon City, South Korea 404-330

**Contact:** Hun Kim

**Source of Samples:** The samples were shipped to IAPMO R&T Lab from Kofulso, and received in good condition on September 19, 2013.

**Date of Testing:** October 17, 2013 to October 30, 2013.

**Sample Description:** Flexible hoses with excess shut-off, refer to pages 2-3 for model numbers and descriptions.

**Scope of Testing:** The purpose of the testing was to determine whether the sample tested of the Flexible hoses with excess shut-off met the applicable requirements of CSA B125-5/Z600-2011, entitled, "Flexible water connectors with excess flow shut-off devices".

**Conclusion:** The samples, tested of the Flexible hoses with excess shut-off, models listed on pages 2-3, from Kofulso, COMPLIED with the applicable requirements of CSA B125-5/Z600-2011.

**Pending:** NSF61.

By our signatures below, we certify that all the testing and sample preparation for this report was performed under continuous, direct supervision of IAPMO R&T Lab, unless stated otherwise.

Tested By,

Reviewed by,

Vinh Nguyen, Test Technician

Sean Vuu, P.E. Manager, Specialty Projects

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Valves

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No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# Braided Stainless Steel **Safe-flow** Water Connectors



## FAUCET Connector 1/2" FIP x 1/2" FIP

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Excess Flow Shut-off Valve
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)
- Minimum Flow: 2.0 gpm
- Shut-off Flow: 2.5- 3.5 gpm



| Part #           | Description                                        | U/M | Price | Qty/ Box |
|------------------|----------------------------------------------------|-----|-------|----------|
| EF-FC-12F12F-12V | 1/2"FIP x 1/2"FIP, Excess Flow Shut-off Valve, 12" | EA  |       | 50       |
| EF-FC-12F12F-16V | 1/2"FIP x 1/2"FIP, Excess Flow Shut-off Valve, 16" | EA  |       | 50       |
| EF-FC-12F12F-20V | 1/2"FIP x 1/2"FIP, Excess Flow Shut-off Valve, 20" | EA  |       | 50       |



## FAUCET Connector 1/2" Compression x 1/2" FIP

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Excess Flow Shut-off Valve
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)
- Minimum Flow: 2.0 gpm
- Shut-off Flow: 2.5- 3.5 gpm



| Part #           | Description                                      | U/M | Price | Qty/ Box |
|------------------|--------------------------------------------------|-----|-------|----------|
| EF-FC-12C12F-12V | 1/2"C x 1/2"FIP, Excess Flow Shut-off Valve, 12" | EA  |       | 50       |
| EF-FC-12C12F-16V | 1/2"C x 1/2"FIP, Excess Flow Shut-off Valve, 16" | EA  |       | 50       |
| EF-FC-12C12F-20V | 1/2"C x 1/2"FIP, Excess Flow Shut-off Valve, 20" | EA  |       | 50       |



## FAUCET Connector 3/8" Compression x 3/8" Compression

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Excess Flow Shut-off Valve
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)
- Minimum Flow: 2.0 gpm
- Shut-off Flow: 2.5- 3.5 gpm



| Part #           | Description                                    | U/M | Price | Qty/ Box |
|------------------|------------------------------------------------|-----|-------|----------|
| EF-FC-38C38C-12V | 3/8"C x 3/8"C, Excess Flow Shut-off Valve, 12" | EA  |       | 50       |
| EF-FC-38C38C-16V | 3/8"C x 3/8"C, Excess Flow Shut-off Valve, 16" | EA  |       | 50       |
| EF-FC-38C38C-20V | 3/8"C x 3/8"C, Excess Flow Shut-off Valve, 20" | EA  |       | 50       |
| EF-FC-38C38C-24V | 3/8"C x 3/8"C, Excess Flow Shut-off Valve, 24" | EA  |       | 50       |
| EF-FC-38C38C-30V | 3/8"C x 3/8"C, Excess Flow Shut-off Valve, 30" | EA  |       | 50       |



## FAUCET Connector 3/8" Compression x Delta Type

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Excess Flow Shut-off Valve
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)
- Minimum Flow: 2.0 gpm
- Shut-off Flow: 2.5- 3.5 gpm



| Part #         | Description                                         | U/M | Price | Qty/ Box |
|----------------|-----------------------------------------------------|-----|-------|----------|
| EF-FC-38DT-12V | 3/8"C x Delta Type, Excess Flow Shut-off Valve, 12" | EA  |       | 50       |
| EF-FC-38DT-16V | 3/8"C x Delta Type, Excess Flow Shut-off Valve, 16" | EA  |       | 50       |
| EF-FC-38DT-20V | 3/8"C x Delta Type, Excess Flow Shut-off Valve, 20" | EA  |       | 50       |

# Braided Stainless Steel **Safe-flow** Water Connectors

**Safe-flow**

## FAUCET Connector

3/8" Compression x 1/2" FIP

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Excess Flow Shut-off Valve
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)
- Minimum Flow: 2.0 gpm
- Shut-off Flow: 2.5- 3.5 gpm



| Part #           | Description                                      | U/M | Price | Qty/ Box |
|------------------|--------------------------------------------------|-----|-------|----------|
| EF-FC-38C12F-9V  | 3/8"C x 1/2"FIP, Excess Flow Shut-off Valve, 9"  | EA  |       | 50       |
| EF-FC-38C12F-12V | 3/8"C x 1/2"FIP, Excess Flow Shut-off Valve, 12" | EA  |       | 50       |
| EF-FC-38C12F-16V | 3/8"C x 1/2"FIP, Excess Flow Shut-off Valve, 16" | EA  |       | 50       |
| EF-FC-38C12F-20V | 3/8"C x 1/2"FIP, Excess Flow Shut-off Valve, 20" | EA  |       | 50       |
| EF-FC-38C12F-24V | 3/8"C x 1/2"FIP, Excess Flow Shut-off Valve, 24" | EA  |       | 50       |
| EF-FC-38C12F-30V | 3/8"C x 1/2"FIP, Excess Flow Shut-off Valve, 30" | EA  |       | 50       |
| EF-FC-38C12F-36V | 3/8"C x 1/2"FIP, Excess Flow Shut-off Valve, 36" | EA  |       | 50       |



## ICE MAKER Connector

1/4" Compression x 1/4" Compression

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Excess Flow Shut-off Valve
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)
- Minimum Flow: 2.0 gpm
- Shut-off Flow: 2.5- 3.5 gpm



| Part #           | Description                                       | U/M | Price | Qty/ Box |
|------------------|---------------------------------------------------|-----|-------|----------|
| EF-IC-14C14C-5V  | 1/4"C x 1/4" C, Excess Flow Shut-off Valve, 5 ft  | EA  |       | 50       |
| EF-IC-14C14C-6V  | 1/4"C x 1/4" C, Excess Flow Shut-off Valve, 6 ft  | EA  |       | 50       |
| EF-IC-14C14C-10V | 1/4"C x 1/4" C, Excess Flow Shut-off Valve, 10 ft | EA  |       | 25       |



## WASHING MACHINE Connector

3/4" Hose Bibb

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Excess Flow Shut-off Valve
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)
- Minimum Flow: 2.0 gpm
- Shut-off Flow: 2.5- 3.5 gpm



| Part #         | Description                             | U/M | Price | Qty/ Box |
|----------------|-----------------------------------------|-----|-------|----------|
| EF-WM-34HB-48V | 3/4"HB, Excess Flow Shut-off Valve, 48" | EA  |       | 25       |
| EF-WM-34HB-60V | 3/4"HB, Excess Flow Shut-off Valve, 60" | EA  |       | 25       |
| EF-WM-34HB-72V | 3/4"HB, Excess Flow Shut-off Valve, 72" | EA  |       | 25       |



Gas Connectors

Commercial Gas Connectors

Gas Line System

Gas CSST Fittings

Water Line System

Water CSST Fittings

Braided Water Connectors

Supply stop Valve

Water Heater Connectors

Isolation Valves

Thermal Expansion Tanks

No-Hub Couplings

Flexible Sprinkler Drops

# Braided Stainless Steel **Safe-flow** Water Connectors



## TOILET Connector 3/8" Compression x 7/8" Ballcock

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Excess Flow Shut-off Valve
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)
- Minimum Flow: 2.0 gpm
- Shut-off Flow: 2.5- 3.5 gpm



| Part #          | Description                                     | U/M | Price | Qty/ Box |
|-----------------|-------------------------------------------------|-----|-------|----------|
| EF-TC-38CBC-9V  | 3/8"C x 7/8"BC, Excess Flow Shut-off Valve, 9"  | EA  |       | 50       |
| EF-TC-38CBC-12V | 3/8"C x 7/8"BC, Excess Flow Shut-off Valve, 12" | EA  |       | 50       |
| EF-TC-38CBC-16V | 3/8"C x 7/8"BC, Excess Flow Shut-off Valve, 16" | EA  |       | 50       |
| EF-TC-38CBC-20V | 3/8"C x 7/8"BC, Excess Flow Shut-off Valve, 20" | EA  |       | 50       |



## TOILET Connector 3/8" Compression x 7/8" Metal Ballcock

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Excess Flow Shut-off Valve
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)
- Minimum Flow: 2.0 gpm
- Shut-off Flow: 2.5- 3.5 gpm



| Part #           | Description                                            | U/M | Price | Qty/ Box |
|------------------|--------------------------------------------------------|-----|-------|----------|
| EF-TC-38CMBC-12V | 3/8"C x 7/8" Metal BC, Excess Flow Shut-off Valve, 12" | EA  |       | 50       |
| EF-TC-38CMBC-16V | 3/8"C x 7/8" Metal BC, Excess Flow Shut-off Valve, 16" | EA  |       | 50       |
| EF-TC-38CMBC-20V | 3/8"C x 7/8" Metal BC, Excess Flow Shut-off Valve, 20" | EA  |       | 50       |



## TOILET Connector 1/2" FIP x 7/8" Ballcock

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Excess Flow Shut-off Valve
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)
- Minimum Flow: 2.0 gpm
- Shut-off Flow: 2.5- 3.5 gpm



| Part #          | Description                                       | U/M | Price | Qty/ Box |
|-----------------|---------------------------------------------------|-----|-------|----------|
| EF-TC-12FBC-12V | 1/2"FIP x 7/8"BC, Excess Flow Shut-off Valve, 12" | EA  |       | 50       |
| EF-TC-12FBC-16V | 1/2"FIP x 7/8"BC, Excess Flow Shut-off Valve, 16" | EA  |       | 50       |
| EF-TC-12FBC-20V | 1/2"FIP x 7/8"BC, Excess Flow Shut-off Valve, 20" | EA  |       | 50       |

# Braided Stainless Steel **Safe-flow** Water Connectors

**Safe-flow**

## DISHWASHER Connector 3/8" Compression x 3/8" Elbow

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Excess Flow Shut-off Valve
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)
- Minimum Flow: 2.0 gpm
- Shut-off Flow: 2.5- 3.5 gpm



| Part #           | Description                                     | U/M | Price | Qty/ Box |
|------------------|-------------------------------------------------|-----|-------|----------|
| EF-DC-38C38L-48V | 3/8"C x 3/8"EL, Excess Flow Shut-off Valve, 48" | EA  |       | 50       |
| EF-DC-38C38L-60V | 3/8"C x 3/8"EL, Excess Flow Shut-off Valve, 60" | EA  |       | 50       |
| EF-DC-38C38L-72V | 3/8"C x 3/8"EL, Excess Flow Shut-off Valve, 72" | EA  |       | 50       |
| EF-DC-38C38L-96V | 3/8"C x 3/8"EL, Excess Flow Shut-off Valve, 96" | EA  |       | 50       |



## DISHWASHER Connector 1/2" Compression x 3/8" Elbow

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Excess Flow Shut-off Valve
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)
- Minimum Flow: 2.0 gpm
- Shut-off Flow: 2.5- 3.5 gpm



| Part #           | Description                                     | U/M | Price | Qty/ Box |
|------------------|-------------------------------------------------|-----|-------|----------|
| EF-DC-12C38L-60V | 1/2"C x 3/8"EL, Excess Flow Shut-off Valve, 60" | EA  |       | 50       |



## DISHWASHER Connector 3/8" Compression x 3/4" Hose Bibb Elbow

- Tube-PVC
- Jacket-Braided Stainless Steel 304
- Excess Flow Shut-off Valve
- Nut-Chrome Plated Brass
- Max. Working Temperature 180°F (82°C)
- Max. Working Pressure 125 psi (8.6bar)
- Minimum Flow: 2.0 gpm
- Shut-off Flow: 2.5- 3.5 gpm



| Part #           | Description                                            | U/M | Price | Qty/ Box |
|------------------|--------------------------------------------------------|-----|-------|----------|
| EF-DC-38CHBL-48V | 3/8"C x 3/4" GH Elbow, Excess Flow Shut-off Valve, 48" | EA  |       | 50       |
| EF-DC-38CHBL-60V | 3/8"C x 3/4" GH Elbow, Excess Flow Shut-off Valve, 60" | EA  |       | 50       |
| EF-DC-38CHBL-72V | 3/8"C x 3/4" GH Elbow, Excess Flow Shut-off Valve, 72" | EA  |       | 50       |



Gas Connectors

Commercial Gas Connectors

Gas Line System

Gas CSST Fittings

Water Line System

Water CSST Fittings

Braided Water Connectors

Supply stop Valve

Water Heater Connectors

Isolation Valves

Thermal Expansion Tanks

No-Hub Couplings

Flexible Sprinkler Drops



*Lead Free / Quarter Turn  
Supply Stop Valve*

# Lead Free / Quarter Turn Supply Stop Valve

## Technical Reference

- Forged lead free brass body
- Chrome plated
- Pressure rating : 125 psi / 180°F
- Precision machined brass ball valve is specifically engineered and manufactured with PTFE seats to provide smooth operation without freeze-ups even after long periods of non-use.
- Two high-performance o-rings withstand high temperatures and corrosion from harsh water environments.
- 100% leak tested

## Connection

- Compression
- CPVC
- FIP
- Sweat
- PEX

## 1/4 - Turn Ball Valve

The 1/4-Turn Ball Valve and stem are made of brass and built for longevity and frequent use. Sweat, compression, or crimp fittings provide a quick and reliable connection.



## Specifications

| Name            | Material        | Qty. |
|-----------------|-----------------|------|
| Compression Nut | Brass           | 1    |
| Sleeve          | Copper          | 1    |
| Body            | Lead Free Brass | 1    |
| Stem            | Brass           | 1    |
| O-ring          | NBR             | 2    |
| Handle          | Zinc            | 1    |
| Screw           | Steel           | 1    |
| Ball seat       | PTFE            | 2    |
| Ball            | Lead Free Brass | 1    |
| Adapter         | Lead Free Brass | 1    |



# Supply Stop Valve

## Compression × Compression- Angle

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome



| Part #         | Description            | U/M | Price | Qty/Box |
|----------------|------------------------|-----|-------|---------|
| EFSV-AG-58C14C | 5/8" OD × 1/4" OD Comp | EA  |       |         |
| EFSV-AG-58C38C | 5/8" OD × 3/8" OD Comp | EA  |       |         |
| EFSV-AG-58C12C | 5/8" OD × 1/2" OD Comp | EA  |       |         |

## Compression × Compression- Straight

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome



| Part #         | Description            | U/M | Price | Qty/Box |
|----------------|------------------------|-----|-------|---------|
| EFSV-ST-38C38C | 3/8" OD × 3/8" OD Comp | EA  |       |         |
| EFSV-ST-58C14C | 5/8" OD × 1/4" OD Comp | EA  |       |         |
| EFSV-ST-58C38C | 5/8" OD × 3/8" OD Comp | EA  |       |         |
| EFSV-ST-58C12C | 5/8" OD × 1/2" OD Comp | EA  |       |         |

## FIP × Compression- Angle

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome



| Part #          | Description             | U/M | Price | Qty/Box |
|-----------------|-------------------------|-----|-------|---------|
| EFSV-AG-38FT38C | 3/8" FIP × 3/8" OD Comp | EA  |       |         |
| EFSV-AG-12FT14C | 1/2" FIP × 1/4" OD Comp | EA  |       |         |
| EFSV-AG-12FT38C | 1/2" FIP × 3/8" OD Comp | EA  |       |         |
| EFSV-AG-12FT12C | 1/2" FIP × 1/2" OD Comp | EA  |       |         |

## FIP × Compression- Straight

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome



| Part #          | Description             | U/M | Price | Qty/Box |
|-----------------|-------------------------|-----|-------|---------|
| EFSV-ST-38FT38C | 3/8" FIP × 3/8" OD Comp | EA  |       |         |
| EFSV-ST-12FT38C | 1/2" FIP × 3/8" OD Comp | EA  |       |         |

# Supply Stop Valve

## FIP × Compression × Compression- Dual Outlet

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome

| Part #             | Description                            | U/M | Price | Qty/Box |
|--------------------|----------------------------------------|-----|-------|---------|
| EFSV-DU-12FT38C14C | 1/2" FIP × 3/8" OD Comp × 1/4" OD Comp | EA  |       |         |
| EFSV-DU-12FT38C38C | 1/2" FIP × 3/8" OD Comp × 3/8" OD Comp | EA  |       |         |



## Compression × Compression × Compression- Dual Outlet

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome

| Part #            | Description                           | U/M | Price | Qty/Box |
|-------------------|---------------------------------------|-----|-------|---------|
| EFSV-DU-58C38C14C | 5/8" OD × 3/8" OD Comp × 1/4" OD Comp | EA  |       |         |
| EFSV-DU-58C38C38C | 5/8" OD × 3/8" OD Comp × 3/8" OD Comp | EA  |       |         |



## Sweat × Compression- Angle

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome

| Part #          | Description                   | U/M | Price | Qty/Box |
|-----------------|-------------------------------|-----|-------|---------|
| EFSV-AG-12SW14C | 1/2" NOM SWEAT × 1/4" OD Comp | EA  |       |         |
| EFSV-AG-12SW38C | 1/2" NOM SWEAT × 3/8" OD Comp | EA  |       |         |



## Sweat × Compression- Straight

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome

| Part #          | Description                   | U/M | Price | Qty/Box |
|-----------------|-------------------------------|-----|-------|---------|
| EFSV-ST-12SW14C | 1/2" NOM SWEAT × 1/4" OD Comp | EA  |       |         |
| EFSV-ST-12SW38C | 1/2" NOM SWEAT × 3/8" OD Comp | EA  |       |         |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# Supply Stop Valve

## Crimp PEX Barb × Compression- **Angle**

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome



| Part #          | Description                  | U/M | Price | Qty/Box |
|-----------------|------------------------------|-----|-------|---------|
| EFSV-AG-12PX14C | 1/2" NOM BARB × 1/4" OD Comp | EA  |       |         |
| EFSV-AG-12PX38C | 1/2" NOM BARB × 3/8" OD Comp | EA  |       |         |

## Crimp PEX Barb × Compression- **Straight**

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome



| Part #          | Description                  | U/M | Price | Qty/Box |
|-----------------|------------------------------|-----|-------|---------|
| EFSV-ST-12PX38C | 1/2" NOM BARB × 3/8" OD Comp | EA  |       |         |

## Crimp PEX Barb × Barb- **Angle**

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome



| Part #           | Description                   | U/M | Price | Qty/Box |
|------------------|-------------------------------|-----|-------|---------|
| EFSV-AG-12PX12PX | 1/2" NOM BARB × 1/2" NOM BARB | EA  |       |         |

## Crimp PEX Barb × Barb- **Straight**

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome



| Part #           | Description                   | U/M | Price | Qty/Box |
|------------------|-------------------------------|-----|-------|---------|
| EFSV-ST-12PX12PX | 1/2" NOM BARB × 1/2" NOM BARB | EA  |       |         |

# Supply Stop Valve

## Compression × Slip Joint- **Angle**

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome

| Part #       | Description                          | U/M | Price | Qty/Box |
|--------------|--------------------------------------|-----|-------|---------|
| EFSV-AG-12SJ | 5/8" OD × 7/16" OD & 1/2" Slip-Joint | EA  |       |         |



## Compression × Slip Joint- **Straight**

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome

| Part #       | Description                          | U/M | Price | Qty/Box |
|--------------|--------------------------------------|-----|-------|---------|
| EFSV-ST-12SJ | 5/8" OD × 7/16" OD & 1/2" Slip-Joint | EA  |       |         |



## CPVC Solvent Weld × Compression- **Angle**

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome

| Part #          | Description                  | U/M | Price | Qty/Box |
|-----------------|------------------------------|-----|-------|---------|
| EFSV-AG-12CP14C | 1/2" NOM CPVC × 1/4" OD Comp | EA  |       |         |
| EFSV-AG-12CP38C | 1/2" NOM CPVC × 3/8" OD Comp | EA  |       |         |



## CPVC Solvent Weld × Compression- **Straight**

- Lead Free Brass Body
- Pressure Rating : 125 psi / 180 °F
- Finish : Chrome

| Part #          | Description                  | U/M | Price | Qty/Box |
|-----------------|------------------------------|-----|-------|---------|
| EFSV-ST-12CP14C | 1/2" NOM CPVC × 1/4" OD Comp | EA  |       |         |
| EFSV-ST-12CP38C | 1/2" NOM CPVC × 3/8" OD Comp | EA  |       |         |





## *Flexible Water Heater Connectors*

High resistance to corrosion, maximum flexibility without kinking, and maintains maximum water flow.



# Flexible Stainless Steel Water Heater Connectors

## Applications

- Boilers
- Water Softeners
- Water Heaters
- Tankless Water Heaters

## Benefits

- 100% Leak Tested
- Reduced Labor Costs
- Corrosion & Scaling Resistant
- No Special Tools Required
- Minimal Use of Fittings
- Environmentally Safe

## Certifications and Approvals

- IAPMO/ cUPC Certified
- ASME A112.18.6-2009/ CSA B125.6-2009
- NSF 61 Compliant
- NSF 372 Compliant : Lead-Free



## Product Specifications

|                      |                                  |    |        |        |    |
|----------------------|----------------------------------|----|--------|--------|----|
| Tubing               | Stainless Steel 304 (ASTM A 240) |    |        |        |    |
| Tubing Thickness     | 0.01" and 0.012"                 |    |        |        |    |
| Fittings             | Chrome-Plated Brass 3771         |    |        |        |    |
| Gasket               | High-Quality EPDM                |    |        |        |    |
| Lengths Available    | 12", 15", 18", 24", 36", 48"     |    |        |        |    |
| Sizes Available (ID) | 3/4"                             | 1" | 1-1/4" | 1-1/2" | 2" |
| Thread Standard      | ASME B1.20.1                     |    |        |        |    |

## Technical Specifications

|                               |                                    |
|-------------------------------|------------------------------------|
| Working Pressure              | Up to 125 psig                     |
| Intermittent Impulse Pressure | Up to 180 psig                     |
| Temperature Rating            | -40° F to 180° F (-40° C to 82° C) |
| Min. Bend Radius              | 2.5" (Recommended)                 |

Gas Connectors

Commercial Gas Connectors

Gas Line System

Gas CSST Fittings

Water Line System

Water CSST Fittings

Braided Water Connectors

Supply Stop Valve

Water Heater Connectors

Isolation Valves

Thermal Expansion Tanks

No-Hub Couplings

Flexible Sprinkler Drops

# Flexible Stainless Steel Water Heater Connectors

## Strength and Flexibility

Easyflex water connectors are made from durable and highly corrosion resistant 304 stainless steel. The annular corrugations allow maximum flexibility while maintaining the durability and strength of stainless steel. Easyflex water connectors can be tightly bent and still maintain the inner diameter without any kinks.

## Variety

Easyflex offers sizes from 3/4" to 2" with a variety of connections-threaded, sweat, and push-fit to meet all your needs.



FIP



MIP



Push-Fit



PEX



Cold Expansion



Stainless Steel Braided



Sweat



Copper

## Parts Numbering System

EFWC - 034 - SS - 1010 - 12

TUBE ID

FITTINGS

TUBE TYPE

LENGTH

### TUBE ID

| Part# | Size (ID) |
|-------|-----------|
| 034   | 3/4"      |
| 034C  | 3/4"      |
| 100   | 1"        |
| 114   | 1-1/4"    |
| 112   | 1-1/2"    |
| 200   | 2"        |

### TUBE TYPE

| Part# |                           |
|-------|---------------------------|
| SS    | Stainless Steel           |
| BR    | Braided (Stainless Steel) |
| 034C  | Copper                    |

### FITTINGS

| Part# | Size (ID)     |
|-------|---------------|
| 10    | 3/4" FIP      |
| 11    | 3/4" MIP      |
| 12    | 1" FIP        |
| 13    | 1-1/4" FIP    |
| 14    | 1-1/2" FIP    |
| 15    | 2" FIP        |
| 50    | 3/4" Push-Fit |
| 60    | 3/4" Sweat    |
| 70    | 3/4" PEX      |

### LENGTH

Standard Lengths

12", 15", 18", 24", 36", 48"

# Flexible Stainless Steel Water Heater Connectors

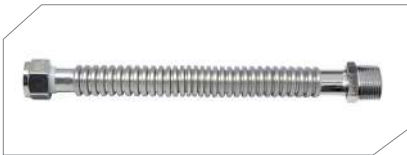
## FIP/ MIP Fitting | 3/4" ID

- Tube-Stainless Steel 304 (ASTM A 240)
- Nut-Chrome-Plated Brass 3771

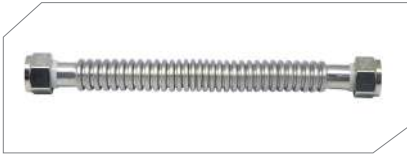
- Gasket-High Quality EPDM
- External Dielectric Sleeve



| ID   | Part #              | Description              | U/M | Price | Qty/ Box |
|------|---------------------|--------------------------|-----|-------|----------|
| 3/4" | EFWC-034-SS-1010-12 | 3/4" FIP x 3/4" FIP, 12" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1010-15 | 3/4" FIP x 3/4" FIP, 15" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1010-18 | 3/4" FIP x 3/4" FIP, 18" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1010-24 | 3/4" FIP x 3/4" FIP, 24" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1010-36 | 3/4" FIP x 3/4" FIP, 36" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1010-48 | 3/4" FIP x 3/4" FIP, 48" | EA  |       | 25       |



| ID   | Part #              | Description              | U/M | Price | Qty/ Box |
|------|---------------------|--------------------------|-----|-------|----------|
| 3/4" | EFWC-034-SS-1011-15 | 3/4" FIP x 3/4" MIP, 15" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1011-18 | 3/4" FIP x 3/4" MIP, 18" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1011-24 | 3/4" FIP x 3/4" MIP, 24" | EA  |       | 25       |



| ID   | Part #              | Description            | U/M | Price | Qty/ Box |
|------|---------------------|------------------------|-----|-------|----------|
| 3/4" | EFWC-034-SS-1012-18 | 3/4" FIP x 1" FIP, 18" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1012-24 | 3/4" FIP x 1" FIP, 24" | EA  |       | 25       |

# Flexible Stainless Steel Water Heater Connectors

## SWEAT Fitting | 3/4" ID

- Tube-Stainless Steel 304 (ASTM A 240)
- Nut-Chrome-Plated Brass 3771
- Gasket-High Quality EPDM
- External Dielectric Sleeve



| ID   | Part #              | Description                | U/M | Price | Qty/ Box |
|------|---------------------|----------------------------|-----|-------|----------|
| 3/4" | EFWC-034-SS-1060-18 | 3/4" FIP x 3/4" Sweat, 18" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1060-24 | 3/4" FIP x 3/4" Sweat, 24" | EA  |       | 25       |



## BRAIDED / FIP Fitting | 3/4" ID

- Tube-Reinforced PVC
- Jacket-Braided Stainless Steel 304 (ASTM A 240)
- Nut-Chrome-Plated Brass 3771
- Max. Working Temperature 180 °F (82°C)
- Max. Working Pressure 125 psi (8.6bar)



| ID   | Part #              | Description              | U/M | Price | Qty/ Box |
|------|---------------------|--------------------------|-----|-------|----------|
| 3/4" | EFWC-034-BR-1010-18 | 3/4" FIP x FIP 3/4", 18" | EA  |       | 25       |
| 3/4" | EFWC-034-BR-1010-24 | 3/4" FIP x FIP 3/4", 24" | EA  |       | 25       |



## FIP Fitting | 1" ID

- Tube-Stainless Steel 304 (ASTM A 240)
- Nut-Chrome-Plated Brass 3771
- Gasket-High Quality EPDM



| ID | Part #              | Description          | U/M | Price | Qty/ Box |
|----|---------------------|----------------------|-----|-------|----------|
| 1" | EFWC-100-SS-1212-12 | 1" FIP x 1" FIP, 12" | EA  |       | 12       |
| 1" | EFWC-100-SS-1212-18 | 1" FIP x 1" FIP, 18" | EA  |       | 12       |
| 1" | EFWC-100-SS-1212-24 | 1" FIP x 1" FIP, 24" | EA  |       | 12       |



| ID | Part #              | Description              | U/M | Price | Qty/ Box |
|----|---------------------|--------------------------|-----|-------|----------|
| 1" | EFWC-100-SS-1213-12 | 1" FIP x 1-1/4" FIP, 12" | EA  |       | 12       |
| 1" | EFWC-100-SS-1213-15 | 1" FIP x 1-1/4" FIP, 15" | EA  |       | 12       |
| 1" | EFWC-100-SS-1213-18 | 1" FIP x 1-1/4" FIP, 18" | EA  |       | 12       |
| 1" | EFWC-100-SS-1213-24 | 1" FIP x 1-1/4" FIP, 24" | EA  |       | 12       |



# Flexible Stainless Steel Water Heater Connectors

## FIP Fitting | 1-1/4" ID

- Tube-Stainless Steel 304 (ASTM A 240)
- Nut-Chrome-Plated Brass 3771
- Gasket-High Quality EPDM



| ID     | Part #              | Description                  | U/M | Price | Qty/ Box |
|--------|---------------------|------------------------------|-----|-------|----------|
| 1-1/4" | EFWC-114-SS-1313-18 | 1-1/4" FIP x 1-1/4" FIP, 18" | EA  |       | 12       |
| 1-1/4" | EFWC-114-SS-1313-24 | 1-1/4" FIP x 1-1/4" FIP, 24" | EA  |       | 12       |



## FIP Fitting | 1-1/2" ID

- Tube-Stainless Steel 304 (ASTM A 240)
- Nut-Chrome-Plated Brass 3771
- Gasket-High Quality EPDM



| ID     | Part #              | Description                  | U/M | Price | Qty/ Box |
|--------|---------------------|------------------------------|-----|-------|----------|
| 1-1/4" | EFWC-114-SS-1414-18 | 1-1/2" FIP x 1-1/4" FIP, 18" | EA  |       | 12       |
| 1-1/4" | EFWC-114-SS-1414-24 | 1-1/2" FIP x 1-1/4" FIP, 24" | EA  |       | 12       |



## FIP Fitting | 2" ID

- Tube-Stainless Steel 304 (ASTM A 240)
- Nut-Chrome-Plated Brass 3771
- Gasket-High Quality EPDM



| ID | Part #              | Description          | U/M | Price | Qty/ Box |
|----|---------------------|----------------------|-----|-------|----------|
| 2" | EFWC-200-SS-1515-18 | 2" FIP x 2" FIP, 18" | EA  |       | 9        |
| 2" | EFWC-200-SS-1515-24 | 2" FIP x 2" FIP, 24" | EA  |       | 9        |



# Flexible Stainless Steel Water Heater Connectors

## FIP Fitting | 3/4" ID

- Tube-Stainless Steel 304 (ASTM A 240)
- Nut-Chrome-Plated Brass 3771
- Gasket-High Quality EPDM



| ID   | Part #               | Description              | U/M | Price | Qty/ Box |
|------|----------------------|--------------------------|-----|-------|----------|
| 3/4" | EFWC-034-SS-1010-12N | 3/4" FIP x 3/4" FIP, 12" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1010-15N | 3/4" FIP x 3/4" FIP, 15" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1010-18N | 3/4" FIP x 3/4" FIP, 18" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1010-24N | 3/4" FIP x 3/4" FIP, 24" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1010-36N | 3/4" FIP x 3/4" FIP, 36" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1010-48N | 3/4" FIP x 3/4" FIP, 48" | EA  |       | 25       |



| ID   | Part #               | Description            | U/M | Price | Qty/ Box |
|------|----------------------|------------------------|-----|-------|----------|
| 3/4" | EFWC-034-SS-1012-18N | 3/4" FIP x 1" FIP, 18" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1012-24N | 3/4" FIP x 1" FIP, 24" | EA  |       | 25       |



## MIP Fitting | 3/4" ID

- Tube-Stainless Steel 304 (ASTM A 240)
- Nut-Chrome-Plated Brass 3771
- Gasket-High Quality EPDM



| ID   | Part #               | Description              | U/M | Price | Qty/ Box |
|------|----------------------|--------------------------|-----|-------|----------|
| 3/4" | EFWC-034-SS-1011-15N | 3/4" FIP x 3/4" MIP, 15" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1011-18N | 3/4" FIP x 3/4" MIP, 18" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1011-24N | 3/4" FIP x 3/4" MIP, 24" | EA  |       | 25       |



## PUSH-FIT Fitting | 3/4" ID

- Tube-Stainless Steel 304 (ASTM A 240)
- Nut-Chrome-Plated Brass 3771
- Gasket-High Quality EPDM



| ID   | Part #              | Description                   | U/M | Price | Qty/ Box |
|------|---------------------|-------------------------------|-----|-------|----------|
| 3/4" | EFWC-034-SS-1050-15 | 3/4" FIP x 3/4" Push-Fit, 15" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1050-18 | 3/4" FIP x 3/4" Push-Fit, 18" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1050-24 | 3/4" FIP x 3/4" Push-Fit, 24" | EA  |       | 25       |



# Flexible Stainless Steel Water Heater Connectors

## SWEAT Fitting | 3/4" ID

- Tube-Stainless Steel 304 (ASTM A 240)
- Nut-Chrome-Plated Brass 3771
- Gasket-High Quality EPDM



| ID   | Part #              | Description                | U/M | Price | Qty/ Box |
|------|---------------------|----------------------------|-----|-------|----------|
| 3/4" | EFWC-034-SS-1060-18 | 3/4" FIP x 3/4" Sweat, 18" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1060-24 | 3/4" FIP x 3/4" Sweat, 24" | EA  |       | 25       |

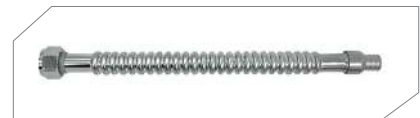


## PEX Fitting | 3/4" ID

- Tube-Stainless Steel 304 (ASTM A 240)
- Nut-Chrome-Plated Brass 3771
- Gasket-High Quality EPDM



| ID   | Part #              | Description              | U/M | Price | Qty/ Box |
|------|---------------------|--------------------------|-----|-------|----------|
| 3/4" | EFWC-034-SS-1070-18 | 3/4" FIP x 3/4" PEX, 18" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1070-24 | 3/4" FIP x 3/4" PEX, 24" | EA  |       | 25       |

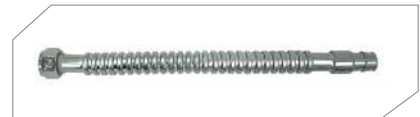


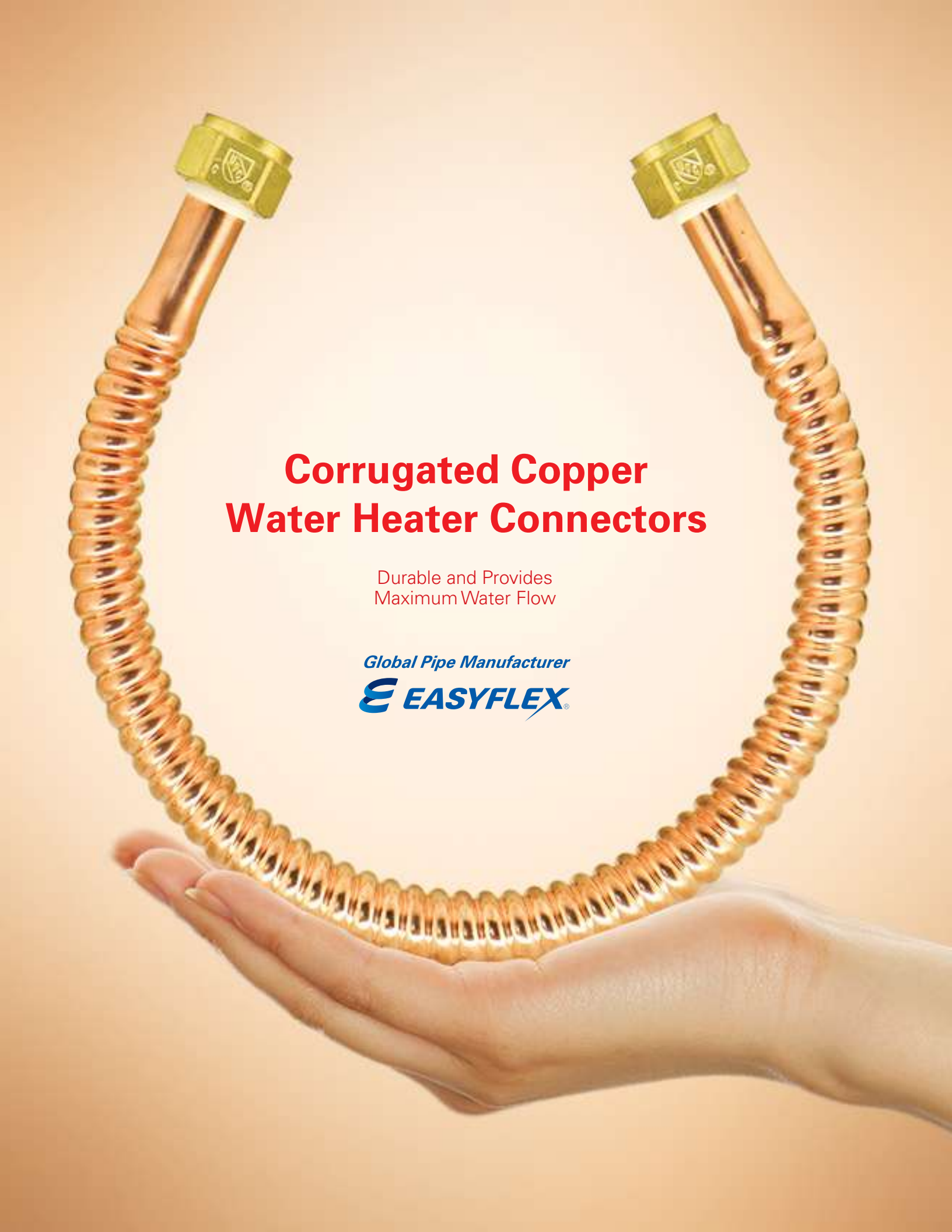
## Cold Expansion Fitting | 3/4" ID

- Tube-Stainless Steel 304 (ASTM A 240)
- Nut-Chrome-Plated Brass 3771
- Gasket-High Quality EPDM



| ID   | Part #              | Description                        | U/M | Price | Qty/ Box |
|------|---------------------|------------------------------------|-----|-------|----------|
| 3/4" | EFWC-034-SS-1080-18 | 3/4" FIP x 3/4" Cold Expansion 18" | EA  |       | 25       |
| 3/4" | EFWC-034-SS-1080-24 | 3/4" FIP x 3/4" Cold Expansion 24" | EA  |       | 25       |



A hand is shown from the bottom, holding a U-shaped corrugated copper water heater connector. The connector has two brass fittings at the top, each with a logo. The background is a solid light orange color.

# Corrugated Copper Water Heater Connectors

Durable and Provides  
Maximum Water Flow

*Global Pipe Manufacturer*

**E EASYFLEX®**

# Corrugated Copper *Water Heater Connectors*



## Applications

- Boilers
- Water Heaters
- Tankless Water Heaters

## Benefits

- 100% Leak Tested
- Reduced Labor Costs
- Corrosion & Scaling Resistant
- No Special Tools Required
- Minimal Use of Fittings
- Environmentally Safe

## Certifications & Approvals

- IAPMO/ UPC Certified
- ASME A 112.18.6-2009 / CSA B 125.6-2009
- NSF 61 Compliant
- NSF 372 Compliant : Lead-Free



## Materials

|          |                   |
|----------|-------------------|
| Tubing   | Copper            |
| Fittings | Brass 3771        |
| Gasket   | High-Quality EPDM |

## Size

|         |                    |
|---------|--------------------|
| Lengths | 12", 15", 18", 24" |
| Size    | 3/4" ID            |

## Technical Specifications

|                               |                                    |
|-------------------------------|------------------------------------|
| Operating Pressure            | Up to 125 psig                     |
| Intermittent Impulse Pressure | Up to 180 psig                     |
| Temperature                   | -40° F to 180° F (-40° C to 82° C) |
| Min. Bend Radius              | 8" (Recommended)                   |

Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Stub  
Couplings

Flexible  
Sprinkler  
Drops

# Corrugated Copper *Water Heater Connectors*

## IAPMO RESEARCH AND TESTING, INC.

5001 East Philadelphia Street, Ontario, California 91761-2816 • (909) 472-4100 Fax (909) 472-4244 • [www.iapmo.org](http://www.iapmo.org)



### CERTIFICATE OF LISTING

IAPMO Research and Testing, Inc. is a product certification body which tests and inspects samples taken from the supplier's stock or from the market or a combination of both to verify compliance to the requirements of applicable codes and standards. This activity is coupled with periodic surveillance of the supplier's factory and warehouses as well as the assessment of the supplier's Quality Assurance System. This listing is subject to the conditions set forth in the characteristics below and is not to be construed as any recommendation, assurance or guarantee by IAPMO Research and Testing, Inc. of the product acceptance by Authorities Having Jurisdiction.

Effective Date: December 2013      Void After: December 2014

Product: Lead Free Plumbing Products      File No. 6634

Issued To: Kofulso Co., Ltd.  
377-8, Gum Gok-dong, Seo-gu  
Incheon City 404-330,  
Korea

Identification: Each product shall bear permanent and legible markings to identify the manufacturer. This marking shall be the trade name, trademark, or other mark known to identify the manufacturer. The product and/or product packaging may also bear the term "Lead Plumbing Law", "Complies with Lead Plumbing Law", or either "Lead Free" or "Low Lead" above or in close proximity to the appropriate IAPMO R&T certification mark, or the term "Certified by IAPMO R&T". The product packaging may also bear a grey dot, a check mark with circle, or any other home centers marking requirements.

Characteristics: Products may include any pipe, pipe fitting, solder, flux, or other plumbing products providing water for human consumption. Products listed below are to be installed in accordance with the manufacturer's instruction. These products have been verified with weighted average lead content  $\leq 0.25\%$ ; Solder and flux lead content  $\leq 0.2\%$ .

Products listed on this certificate have been tested by an IAPMO R&T recognized laboratory. This recognition has been granted based upon the laboratory's compliance to the applicable requirements of ISO/IEC 17025.

  
Chairman, Product Certification Committee

  
CEO, The IAPMO Group



This listing period is based upon the last date of the month indicated on the Effective Date and Void After Date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of the Product Certification Committee, or any evidence of non-compliance with applicable codes and standards or of inferior workmanship, may be deemed sufficient cause for revocation of this listing. Production of or reference to this form for advertising purposes may be made only by specific written permission of IAPMO Research and Testing, Inc. Any alteration of this certificate could be grounds for revocation of the listing.

# Corrugated Copper *Water Heater Connectors*

## FIP Fittings

- Tube-Copper
- Nut-Brass 3771
- Gasket-High Quality EPDM
- External Dielectric Sleeve



| ID   | Part #            | Description                           | U/M | Price | Qty/ Box |
|------|-------------------|---------------------------------------|-----|-------|----------|
| 3/4" | EFWC-034C-1010-12 | 3/4" FIP x 3/4" FIP, Copper Flex, 12" | EA  |       | 25       |
| 3/4" | EFWC-034C-1010-15 | 3/4" FIP x 3/4" FIP, Copper Flex, 15" | EA  |       | 25       |
| 3/4" | EFWC-034C-1010-18 | 3/4" FIP x 3/4" FIP, Copper Flex, 18" | EA  |       | 25       |
| 3/4" | EFWC-034C-1010-24 | 3/4" FIP x 3/4" FIP, Copper Flex, 24" | EA  |       | 25       |



## SWEAT Fittings

- Tube-Copper
- Nut-Brass 3771
- Gasket-High Quality EPDM
- External Dielectric Sleeve



| ID   | Part #            | Description                             | U/M | Price | Qty/ Box |
|------|-------------------|-----------------------------------------|-----|-------|----------|
| 3/4" | EFWC-034C-1060-12 | 3/4" FIP x 3/4" Sweat, Copper Flex, 12" | EA  |       | 25       |
| 3/4" | EFWC-034C-1060-15 | 3/4" FIP x 3/4" Sweat, Copper Flex, 15" | EA  |       | 25       |
| 3/4" | EFWC-034C-1060-18 | 3/4" FIP x 3/4" Sweat, Copper Flex, 18" | EA  |       | 25       |
| 3/4" | EFWC-034C-1060-24 | 3/4" FIP x 3/4" Sweat, Copper Flex, 24" | EA  |       | 25       |





## ***Tankless Water Heater Isolation Valve Kits***

Lead-Free Compact Isolation Valves for Tankless Water Heaters.  
Drain, purge, and testing applications in one Kit.



# Tankless Water Heater Isolation Valve Kits

## Tankless Water Heater Isolation Valve Kit

- Cold Water Valve
- Hot Water Valve
- Pressure Relief Valve

### Benefits

- Full Port
- 200K Rated
- 3/4" Female Threaded Connection or Sweat Connection
- Integrated Drain & Purge Port with Cap
- 600 WOG
- Brass (Lead-Free)
- PTFE Seats

### Certifications

- NSF 372 Compliant : Lead-Free

### Materials

|                   |                              |
|-------------------|------------------------------|
| Body              | Brass UNS C 46500(ASTM B171) |
| Ball Valves       | Chrome-Plated Brass          |
| Ball Disc Packing | PTFE                         |

Gas Connectors

Commercial Gas Connectors

Gas Line System

Gas CSST Fittings

Water Line System

Water CSST Fittings

Braided Water Connectors

Supply stop Valve

Water Heater Connectors

Isolation Valves

Thermal Expansion Tanks

No-Hub Couplings

Flexible Sprinkler Drops

# Tankless Water Heater *Isolation Valves*



## TEST REPORT

5001 East Philadelphia Street  
Ontario, California – USA 91761-2816  
Ph: 909.472.4100 | Fax: 909.472.4243  
<http://www.iapmorll.org>

**Report Number:** 885-14018

**Report Issued:** February 14, 2014

**Project No.:** 22839

**Client:** Kofulso Co., Ltd.  
377-8 Gum Gok-Dong Seo-Gu  
Incheon City  
404-330, South Korea

**Source of Samples:** The samples were shipped to IAPMO R&T Lab from Kofulso Co., Ltd. and received in good condition on October 16, 2013. Updated PMI received on February 13, 2014.

**Date of Evaluation:** January 25, 2014 and February 14, 2014

**Product Description:** Tankless Water Heater Isolation Valves

Model: EF-ISV-HC-LF

Note: The above model includes 1 set of model EF-ISV-H-LF (1ea) and EF-ISV-C-LF (1ea)

**Scope of Evaluation:** The purpose of the evaluation/testing was to determine whether the samples evaluated ☒ tested met the requirement of NSF/ANSI 372-2011, entitled "Drinking Water System Components-Lead Content".

**Conclusion:** The samples evaluated/tested of model EF-ISV-HC-LF, Tankless Water Heater Isolation Valves from Kofulso Co., Ltd. met the requirements of NSF/ANSI 372-2011.

By our signatures below we certify that all evaluation, testing and sample preparation for this report was performed under continuous, direct supervision of IAPMO R&T Lab, unless otherwise stated.

Tested By,

Reviewed By,

  
Frank Lopez, Test Technician

  
Michael N. Briggs, Manager, Analytical Lab

Page 1 of 3

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# Tankless Water Heater *Isolation Valves*

## Tankless Water Heater Isolation Valve Kit 1

*Lead-Free*

- Hot & Cold Valve
- NSF 372 Compliant: Lead-Free
- 3/4" Size (FIP Threaded)
- Brass UNS C46500 (ASTM B171)
- 600 WOG

| Part #      | Description                                                      | U/M | Price | Qty/ Box |
|-------------|------------------------------------------------------------------|-----|-------|----------|
| EFLF-ISV-HC | Lead-Free Tankless Water Heater Service Valves, Hot & Cold Valve | EA  |       | 16       |



## Tankless Water Heater Isolation Valve Kit 2

*Lead-Free*

- Hot & Cold Valve
- Pressure Relief Valve
- NSF 372 Compliant: Lead-Free
- 3/4" Size (FIP Threaded)
- Brass UNS C46500 (ASTM B171)
- 600 WOG

| Part #        | Description                                                                               | U/M | Price | Qty/ Box |
|---------------|-------------------------------------------------------------------------------------------|-----|-------|----------|
| EFLF-ISV-HCTP | Lead-Free Tankless Water Heater Service Valves, Hot & Cold Valve w/ Pressure Relief Valve | EA  |       | 16       |



## Tankless Water Heater Isolation Valve Kit 3 (Sweat)

*Lead-Free*

- Hot & Cold Valve
- NSF 372 Compliant: Lead-Free
- 3/4" Size (Sweat Threaded)
- Brass UNS C46500 (ASTM B171)
- 600 WOG

| Part #         | Description                                                                   | U/M | Price | Qty/ Box |
|----------------|-------------------------------------------------------------------------------|-----|-------|----------|
| EFLF-ISV-SW-HC | Lead-Free Tankless Water Heater Service Valves, Hot & Cold Valve (Sweat Type) | EA  |       | 16       |



## Tankless Water Heater Isolation Valve Kit 4 (Sweat)

*Lead-Free*

- Hot & Cold Valve
- Pressure Relief Valve
- NSF 372 Compliant: Lead-Free
- 3/4" Size (Sweat Threaded)
- Brass UNS C46500 (ASTM B171)
- 600 WOG

| Part #           | Description                                                                                            | U/M | Price | Qty/ Box |
|------------------|--------------------------------------------------------------------------------------------------------|-----|-------|----------|
| EFLF-ISV-SW-HCTP | Lead-Free Tankless Water Heater Service Valves, Hot & Cold Valve w/ Pressure Relief Valve (Sweat Type) | EA  |       | 16       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

**SOFT-urn**

# HASSLE FREE **BI-DIRECTIONAL TURN** Tankless Water Heater Isolation Valve



## **Lead -Free**

New Lead-Free compliant tankless water heater isolation valve featuring a smooth bi-directional turn knob for a drip tight seal.

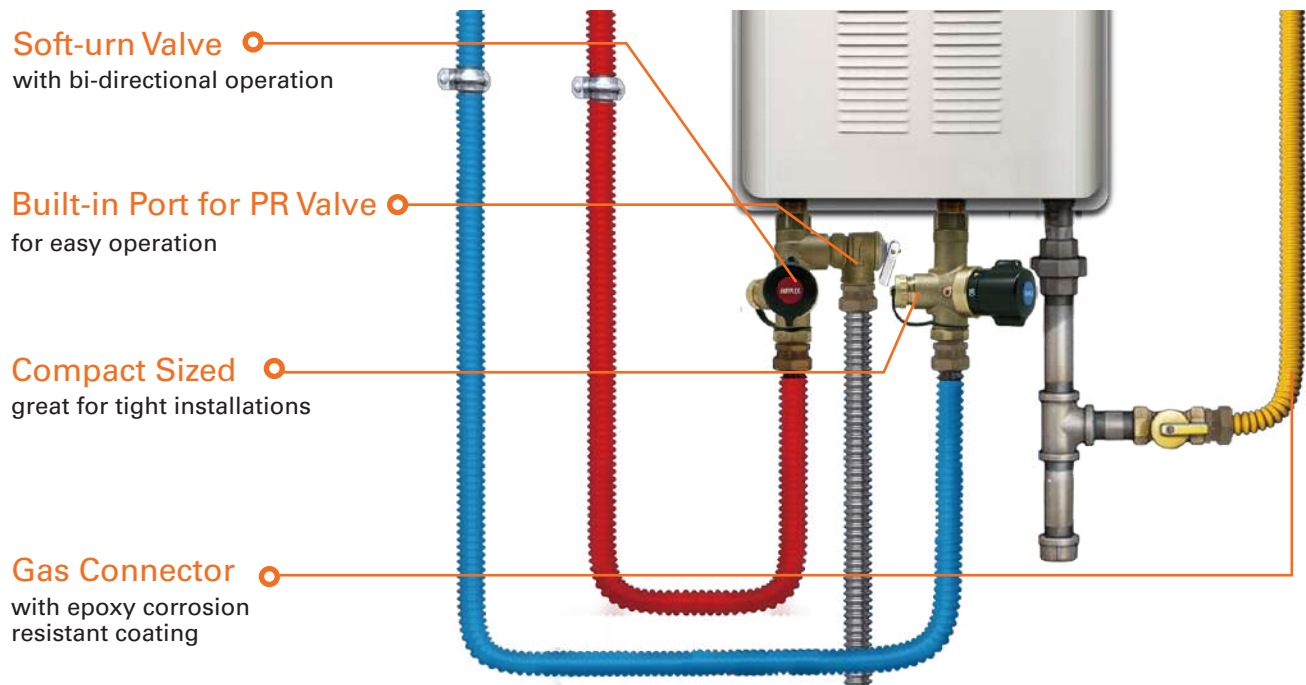
- IPS connections
- Rated pressure : 125 psi
- Burst pressure : 500 psi
- Rated supply temperature : 160°F
- Maintains maximum water flow



# Lead-Free Tankless Water Heater Isolation Valve Kits

## Lead-Free Compact Isolation Valves for Tankless Water Heaters

New Lead-Free compliant tankless water heater isolation valve featuring a smooth bi-directional turn knob for easy maintenance.



## Installation

Easy two-step installation for your tankless water heater with unsurpassed safety, features and benefits. This is a complete inlet/outlet valve system that provides everything you need for a secure installation, including full port testing and flushing of the system with easy-to-install union connections.



# Lead-Free Tankless Water Heater Isolation Valves



## TEST REPORT

5001 East Philadelphia Street  
Ontario, California – USA 91761-2816  
Ph: 909.472.4100 | Fax: 909.472.4243  
<http://www.iapmortl.org>

**Report Number:** 885-14017

**Project No.:** 22830

**Report Issued:** February 11, 2014

**Client:** Kofulso  
377-8 Gum Gok-Dong Seo-Gu  
Incheon City, South Korea 404-330

**Contact:** Hun Kim

**Source of Samples:** The samples were sent by Kofulso, and received by IAPMO R&T Lab in good condition on January 08, 2014.

**Date of Testing:** January 16, 2014 through February 11, 2014

**Sample Description:** Isolation valves for Instantaneous Water Heaters.

| Model number | Description                              |
|--------------|------------------------------------------|
| EF-ISV-H2    | Tankless Water Heater Hot service valve  |
| EF-ISV-C2    | Tankless Water Heater Cold service valve |

**Scope of Testing:** The purpose of the testing was to determine if the samples tested of the isolation valves met the applicable requirements of ASME A112.18.1-2012/CSA B125.1-12, entitled, "Plumbing Supply Fittings".

**Conclusion:** the samples tested of the isolation valves, models listed above, from Kofulso COMPLIED with the applicable requirements of ASME A112.18.1-2012/CSA B125.1-12.

**Pending:** NSF61/372

By our signatures below, we certify that all the testing and sample preparation for this report was performed under continuous, direct supervision of IAPMO R&T Lab, unless otherwise stated.

Tested by,

Reviewed by,

Vinh Nguyen, Test Technician

Sean Vuu, P.E., Manager, Specialty Projects

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# Lead-Free Tankless Water Heater Isolation Valve Kits

## Lead-Free Tankless Water Heater Isolation Valve Kit 1

- Hot & Cold Valve
- Complies to NSF 61 and 372
- 3/4" Size (FIP Threaded)
- Brass
- Rated pressure: 125 psi
- Burst pressure: 500 psi
- Rated supply temperature: 160° F



| Part #   | Description                                                      | U/M | Price | Qty/ Box |
|----------|------------------------------------------------------------------|-----|-------|----------|
| EF-ISV-3 | Lead-Free Tankless Water Heater Service Valves, Hot & Cold Valve | EA  |       | 12       |



## Lead-Free Tankless Water Heater Isolation Valve Kit 2

- Hot & Cold Valve
- Pressure Relief Valve
- Complies to NSF 61 and 372
- 3/4" Size (FIP Threaded)
- Brass
- Rated pressure: 125 psi
- Burst pressure: 500 psi
- Rated supply temperature: 160° F



| Part #     | Description                                                                               | U/M | Price | Qty/ Box |
|------------|-------------------------------------------------------------------------------------------|-----|-------|----------|
| EF-ISV-3PR | Lead-Free Tankless Water Heater Service Valves, Hot & Cold Valve w/ Pressure Relief Valve | EA  |       | 12       |



## Lead-Free Tankless Water Heater Isolation Valve Kit 3 (Sweat)

- Hot & Cold Valve
- Complies to NSF 61 and 372
- 3/4" Size (Sweat Threaded)
- Brass
- Rated pressure: 125 psi
- Burst pressure: 500 psi
- Rated supply temperature: 160° F



| Part #      | Description                                                                   | U/M | Price | Qty/ Box |
|-------------|-------------------------------------------------------------------------------|-----|-------|----------|
| EF-ISV-SW-3 | Lead-Free Tankless Water Heater Service Valves, Hot & Cold Valve (Sweat Type) | EA  |       | 12       |



## Lead-Free Tankless Water Heater Isolation Valve Kit 4 (Sweat)

- Hot & Cold Valve
- Pressure Relief Valve
- Complies to NSF 61 and 372
- 3/4" Size (Sweat Threaded)
- Brass
- Rated pressure: 125 psi
- Burst pressure: 500 psi
- Rated supply temperature: 160° F



| Part #        | Description                                                                                            | U/M | Price | Qty/ Box |
|---------------|--------------------------------------------------------------------------------------------------------|-----|-------|----------|
| EF-ISV-SW-3PR | Lead-Free Tankless Water Heater Service Valves, Hot & Cold Valve w/ Pressure Relief Valve (Sweat Type) | EA  |       | 12       |



Gas Connectors

Commercial Gas Connectors

Gas Line System

Gas CSST Fittings

Water Line System

Water CSST Fittings

Braided Water Connectors

Supply Stop Valve

Water Heater Connectors

Isolation Valves

Thermal Expansion Tanks

No-Hub Couplings

Flexible Sprinkler Drops

# CUSTOMIZE YOUR KIT



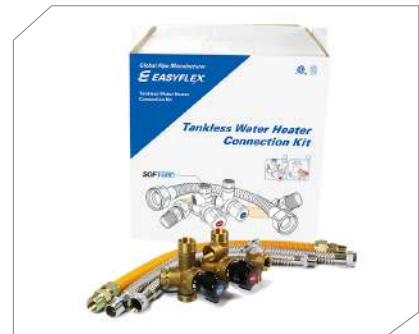
## Tankless Water Heater *Connection Kit*

### Tankless Water Heater Connection Kit



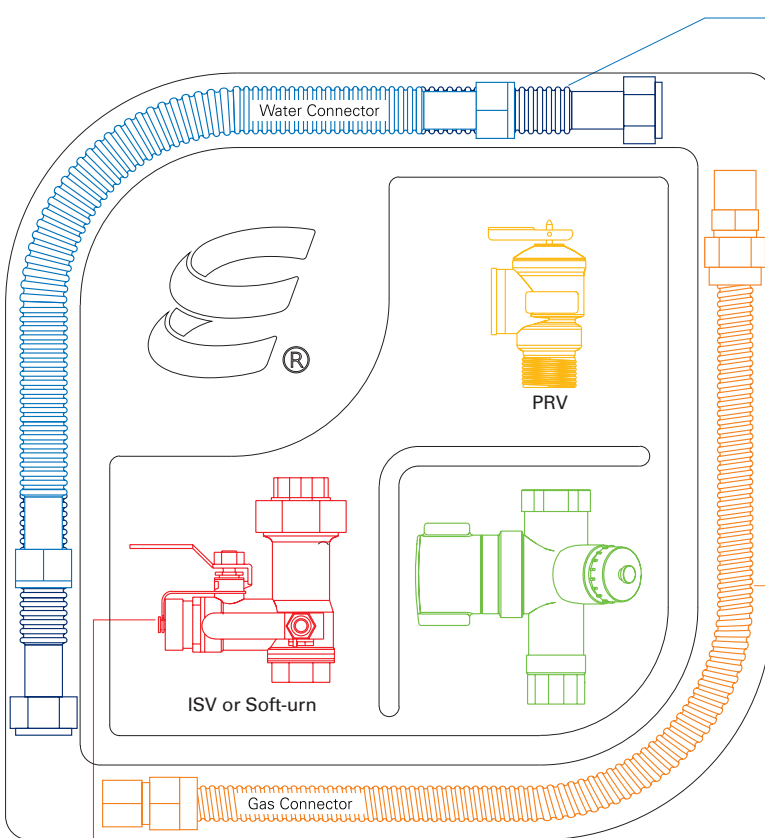
- Soft-urn & Ball valve type isolation valves
- PRV
- 3/4" WC (FIP×FIP/MIP×FIP)
- 3/4" & 1/2" GC (MIP×MIP/MIP×FIP)

| Part #       | Description                                          | U/M | Price | Qty/ Box |
|--------------|------------------------------------------------------|-----|-------|----------|
| EF-TWH-Kit-1 | Isolation Valves / Water Connectors / Gas Connectors | EA  |       | 1        |

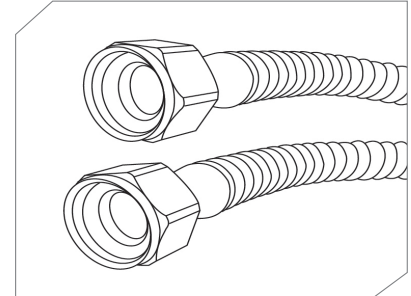


# Tankless Water Heater **Connection Kit**

## Contents

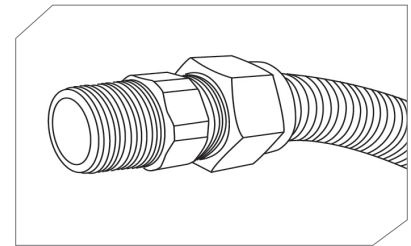


### 2 Water Connectors



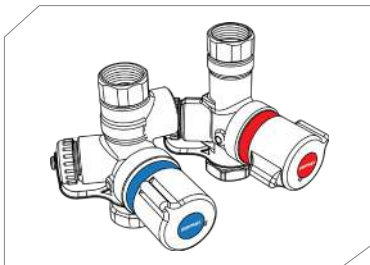
| ID(OD)                                                                     | Length                                                    |
|----------------------------------------------------------------------------|-----------------------------------------------------------|
| <input type="checkbox"/> 3/4" <input type="checkbox"/> 1"                  | <input type="checkbox"/> 18" <input type="checkbox"/> 24" |
| Fittings                                                                   |                                                           |
| <input type="checkbox"/> FIP x FIP <input type="checkbox"/> FIP x SWEAT    |                                                           |
| <input type="checkbox"/> FIP x MIP <input type="checkbox"/> FIP x Pex Barb |                                                           |

### 1 Gas Connector

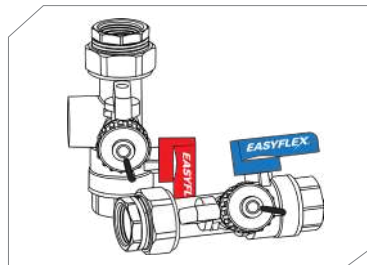


| ID(OD)                                                                        | Type                                                                                      |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <input type="checkbox"/> 1/2" (5/8" OD) <input type="checkbox"/> 3/4" (1" OD) | <input type="checkbox"/> SS (Stainless steel) <input type="checkbox"/> YE (Yellow coated) |
| Length                                                                        | Fittings                                                                                  |
| <input type="checkbox"/> 18" <input type="checkbox"/> 24"                     | <input type="checkbox"/> 3/4" MIP x 3/4" FIP                                              |
|                                                                               | <input type="checkbox"/> 1/2" MIP x 1/2" MIP                                              |
|                                                                               | <input type="checkbox"/> 1/2" MIP x 3/4" MIP                                              |
|                                                                               | <input type="checkbox"/> 1/2" MIP x 1/2" FIP                                              |
|                                                                               | <input type="checkbox"/> 3/4" MIP x 3/4" MIP                                              |

### Isolation Valve



☐ **Soft-urn** (Dial - knob type)



☐ **Isolation Valves** (Ball valve type)

- Customizable Tankless Water Heater Connection Kits
- Traditional Ball Valves or Easyflex's Soft-urn Valves
- 2 Flexible Water Heater Connections - Your Choice of Size and Fittings
- 1 Flexible Gas Connector - Your Choice of Size and Fittings
- Everything You Need In One Neat Box



## *Thermal Expansion Tanks*

Designed to protect potable water heater systems,  
and helps maintain operational efficiency.



# Thermal Expansion Tanks

## Features

- Stainless Steel 3/4" MIP with Hex
- Butyl Rubber Diaphragm
- NSF 61 Compliant
- Factory pre-charged at 40 psig

## Benefits

- Protects water heater, fixtures and appliances
- Prevents dangerous pressure build up
- Stainless steel connector
- Provides a reservoir for expanded water volume

## Certifications

- cUPC



## Materials

|            |                                             |
|------------|---------------------------------------------|
| Shell      | 16 gauge cold rolled steel                  |
| Diaphragm  | 100% butyl rubber, lined with polypropylene |
| Connection | Stainless Steel                             |

## Pressure-Temperature

|                    |                         |
|--------------------|-------------------------|
| Connection Size    | 3/4" MIP                |
| Tank Volume        | 2 Gallons / 4.5 Gallons |
| Factory Pre-Charge | 40 psi                  |
| Max. Pressure      | 150 psi                 |
| Max. Temperature   | 200 °F                  |

Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

## Thermal Expansion Tanks



### Thermal Expansion Tank (Water Heater Safety)

Built with a heavy duty butyl diaphragm system to absorb the expansion of water volume and helps prevent dangerous pressure build-up.

#### Stainless Steel

water connection to reduce corrosion

#### 100% Pressure Tested

#### 16 Gauge Solid Steel Shell

finished with the high quality urethane paint

#### Steel Clench Ring Regulates Movement

and prevents the diaphragm from rubbing against the tank wall



Easyflex Tankone water expansion tanks are designed to maintain safe pressures in a domestic water heating system that utilizes a backflow preventer or check valve. Tankone features a butyl rubber diaphragm and plastic liner to separate the system water from the tank's air charge. The system connection has a stainless steel nipple to prevent corrosion. High quality coating on the shell helps prevent external corrosion. Every Tankone tank is comprehensively tested and backed by an Easyflex 5 year limited warranty.

### Materials

- Shell: 16 Gauge Cold Rolled Steel
- Finish: High Quality Coating Prevents Corrosion
- Diaphragm: 100% Butyl Rubber, Lined with Polypropylene
- Connection: Stainless Steel 3/4" MIP
- Air Charging Port: Brass Port with O-ring Seal

# Thermal Expansion Tanks



## Thermal Expansion Tank

- Shell: 16 Gauge Steel
- Stainless Steel Connection : 3/4" MIP
- Max. Pressure : 150 psi
- Max. Temperature : 200 °F



| Part #   | Description                      | U/M | Price | Qty/ Box |
|----------|----------------------------------|-----|-------|----------|
| EF-TET-2 | Thermal Expansion Tank, 2 Gallon | EA  |       | 1        |



## Thermal Expansion Tank

- Shell: 16 Gauge Steel
- Stainless Steel Connection : 3/4" MIP
- Max. Pressure : 150 psi
- Max. Temperature : 200 °F



| Part #   | Description                        | U/M | Price | Qty/ Box |
|----------|------------------------------------|-----|-------|----------|
| EF-TET-4 | Thermal Expansion Tank, 4.5 Gallon | EA  |       | 1        |



# *No-Hub Couplings Cast Iron Soil Pipe Connections*

Standard, Heavy Duty, and Reducing No-hub Couplings for all types of pipe connections.



# No-Hub Couplings

## Cast Iron Soil Pipe Connections

### Applications

Provides a fast and easy fit for joining hubless cast iron soil pipes and fittings in drain waste and vent applications.

### Benefits

- Soft Rubber Gaskets that Mold to the Pipes
- Water Tight Seal
- Low Expansion and Contraction
- Resistance to Vibrations

### Certifications & Approvals

- UPC
- CSA
- NSF
- Conforms to CISPI 310, ASTM C1277 (Super Shield ASTM C1540)



### Materials

|         |                                                                     |
|---------|---------------------------------------------------------------------|
| Clamp   | SS 301 AISI Stainless Steel (Super Shield SS 304)                   |
| Housing | SS 301 AISI Stainless Steel                                         |
| Screw   | 5/16" Hex, SS 305 Stainless Steel (Super Shield SS 304)             |
| Shield  | Thickness: 0.007" SS 301 AISI Stainless Steel (Super Shield SS 304) |
| Gasket  | Elastomeric compound conforming to ASTM C564                        |

### Technical Specifications

|                     |                                    |
|---------------------|------------------------------------|
| Installation Torque | 60 in-lbs (Super Shield 80 in-lbs) |
|---------------------|------------------------------------|

Gas Connectors

Commercial Gas Connectors

Gas Line System

Gas CSST Fittings

Water Line System

Water CSST Fittings

Braided Water Connectors

Supply Valve

Water Heater Connectors

Isolation Valves

Thermal Expansion Tanks

No-Hub Couplings

Flexible Sprinkler Drops

# No-Hub Couplings **Cast Iron Soil Pipe Connections**

## Submittal No-Hub Couplings

Easyflex No-Hub Couplings meet CISPI 310-2011 and ASTM C 1277-2012 standards. Couplings consist of a stainless steel shield, clamp assembly and a gasket manufactured from a properly vulcanized virgin compound in which the primary elastomer is polychloroprene conforming to ASTM C 564.



Coupling sizes range 1-1/2" through 10" diameters. The stainless steel shield and clamp assemblies are corrosion resistant.

## Sleeve Test

| Test              | Physical Tests Min or Max Requirements                                                                                                                                                                                                          | ASTM  |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Tensile Strength  | 1500 psi min.                                                                                                                                                                                                                                   | D412  |
| Elongation        | 250 min.                                                                                                                                                                                                                                        | D412  |
| Durometer         | 70 ± 5 @ 76° F ± 5° F                                                                                                                                                                                                                           | D2240 |
| Accelerated aging | 15% maximum tensile and 20% maximum elongation deterioration, 10 points maximum increase in hardness, all determinations after oven aging for 96 hours at 158°F                                                                                 | D573  |
| Compression Set   | 25% maximum after 22 hours at 158° F                                                                                                                                                                                                            | D395  |
| Oil Immersion     | 80% maximum volume change after immersion in IRM 903 for 70 hours at 212° F                                                                                                                                                                     | D471  |
| Ozone Cracking    | No visible cracking at 2 times magnification of the gasket after 100 hours exposure in 1.5ppm ozone concentration at 100°F. Testing and inspection to be on gasket which is loop mounted to give approximately 20% elongation of outer surface. | D1149 |
| Tear Resistance   | 150 lbs. minimum per inch of thickness                                                                                                                                                                                                          | D624  |
| Water Absorption  | 20% maximum by weight after 7 days at 158° F                                                                                                                                                                                                    | D471  |

|                | Size                              | Shield Width | No. of Camps | Torque (Inch Pounds) |
|----------------|-----------------------------------|--------------|--------------|----------------------|
| Standard       | 1-1/2", 2", 3", 4"                | 2-1/8"       | 2            | 60                   |
|                | 5", 6"                            | 3"           | 4            | 60                   |
|                | 8", 10"                           | 4"           | 4            | 60                   |
| Standard NSF   | 1-1/2", 2", 3", 4"                | -            | 2            | 60                   |
|                | 5", 6", 8", 10"                   | -            | 4            | 60                   |
| Heavy Duty     | 2", 3", 4"                        | 3"           | 4            | 60                   |
|                | 5", 6", 8", 10"                   | 4"           | 6            | 60                   |
| Super Shielded | 1-1/2", 2", 3", 4"                | -            | 4            | 80                   |
|                | 5", 6", 8", 10"                   | -            | 6            | 80                   |
| Reducing       | 2"×1-1/2", 3"×2",<br>4"×2", 4"×3" | 2-1/8"       | 2            | 60                   |

# No-Hub Couplings **Cast Iron Soil Pipe Connections**



## Descriptive and Test Report

MASTER CONTRACT: 219663

REPORT: 1467490

PROJECT: 2260094

- Edition 1:** September 09, 2003; Project 1467490 - Cleveland  
Issued by Steve Tucky; Reviewed by Trevor Perera
- Edition 2:** September 23, 2008; Project 2078602 - Toronto  
Issued by Ramiro Mata; Reviewed by Matthew Tomsic
- Edition 3:** February 9, 2010; Project 2260094 - Toronto  
Issued by Kelly Yaremko; Reviewed by Gabriel Lippa

Contents: Certificate of Compliance - Page 1  
Supplement to Certificate of Compliance - Page 1  
Description and Tests - Pages 1 to 3  
Figures - 1 to 18

### PRODUCTS

CLASS 7021 01 - PIPE AND PIPE FITTINGS- Mechanical Joints (Non-Transitional Type)  
CLASS 7021 02 - PIPE AND PIPE FITTINGS- Mechanical Coupling Mechanical joint (MJ) couplings, for use with plain-end cast iron soil pipe and pipe fittings

Same size pipe fittings; 1-1/2, 2, 3, 4, 5, 6, 8, 10 inch. (Corrugated Shield)  
Reduced size pipe fittings; 2 x 1-1/2, 3 x 2, 4 x 3, 4 x 2 inch. (Corrugated Shield)

### APPLICABLE REQUIREMENTS

CSA Standard CSA-B70-02 Cast Iron Soil Pipe, Fittings, and Means of Joining  
CSA Standard CSA-B602-05 Mechanical Couplings for Drain, Waste, and Vent Pipe and Sewer Pipe

### MARKINGS

The following permanent marking appears on the products in an acceptable manner.



Certification Marking: CSA Monogram. on rubber gasket and shield.

The test report shall not be reproduced, except in full, without the approval of CSA International.

178 Rexdale Boulevard, Toronto, ON, Canada M9W 1R3  
Telephone: 416.747.4000 1.800.463.6727 Fax: 416.747.4149 [www.csa-international.org](http://www.csa-international.org)

Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# No-Hub Couplings *Cast Iron Soil Pipe Connections*

## No-Hub Coupling | Standard

- Clamp / Housing : SS 301 Stainless Steel
- Screw : SS 305 Stainless Steel



| Part #      | Description                     | U/M | Price | Qty/ Box |
|-------------|---------------------------------|-----|-------|----------|
| EF-NHC-112  | 1-1/2" No-Hub Coupling, 2 Bands | EA  |       | 100      |
| EF-NHC-200  | 2" No-Hub Coupling, 2 Bands     | EA  |       | 100      |
| EF-NHC-300  | 3" No-Hub Coupling, 2 Bands     | EA  |       | 100      |
| EF-NHC-400  | 4" No-Hub Coupling, 2 Bands     | EA  |       | 100      |
| EF-NHC-500  | 5" No-Hub Coupling, 4 Bands     | EA  |       | 30       |
| EF-NHC-600  | 6" No-Hub Coupling, 4 Bands     | EA  |       | 30       |
| EF-NHC-800  | 8" No-Hub Coupling, 4 Bands     | EA  |       | 15       |
| EF-NHC-1000 | 10" No-Hub Coupling, 4 Bands    | EA  |       | 12       |
| EF-NHC-1200 | 12" No-Hub Coupling, 4 Bands    | EA  |       | 8        |
| EF-NHC-1500 | 15" No-Hub Coupling, 4 Bands    | EA  |       | 4        |



## No-Hub Coupling | Reducing

- Clamp / Housing : SS 301 Stainless Steel
- Screw : SS 305 Stainless Steel



| Part #       | Description                                 | U/M | Price | Qty/ Box |
|--------------|---------------------------------------------|-----|-------|----------|
| EF-NHC-R2112 | 2"x1-1/2" Reducing No-Hub Coupling, 2 Bands | EA  |       | 100      |
| EF-NHC-R3200 | 3"x2" Reducing No-Hub Coupling, 2 Bands     | EA  |       | 100      |
| EF-NHC-R4200 | 4"x3" Reducing No-Hub Coupling, 2 Bands     | EA  |       | 100      |
| EF-NHC-R4300 | 4"x3" Reducing No-Hub Coupling, 2 Bands     | EA  |       | 100      |



## No-Hub Coupling | Heavy Duty

- Clamp / Housing : SS 301 Stainless Steel
- Screw : SS 305 Stainless Steel
- Shield : 0.007" SS 301 Stainless Steel



| Part #        | Description                             | U/M | Price | Qty/ Box |
|---------------|-----------------------------------------|-----|-------|----------|
| EF-NHC-200HD  | 2" Heavy Duty No-Hub Coupling, 4 Bands  | EA  |       | 75       |
| EF-NHC-300HD  | 3" Heavy Duty No-Hub Coupling, 4 Bands  | EA  |       | 48       |
| EF-NHC-400HD  | 4" Heavy Duty No-Hub Coupling, 4 Bands  | EA  |       | 48       |
| EF-NHC-500HD  | 5" Heavy Duty No-Hub Coupling, 6 Bands  | EA  |       | 15       |
| EF-NHC-600HD  | 6" Heavy Duty No-Hub Coupling, 6 Bands  | EA  |       | 15       |
| EF-NHC-800HD  | 8" Heavy Duty No-Hub Coupling, 6 Bands  | EA  |       | 15       |
| EF-NHC-1000HD | 10" Heavy Duty No-Hub Coupling, 6 Bands | EA  |       | 12       |



# No-Hub Couplings **Cast Iron Soil Pipe Connections**

## No-Hub Coupling | NSF

- Clamp/ Housing : SS 304 Stainless Steel
- Screw : SS 304 Stainless Steel
- Shield : 0.007" SS 301 Stainless Steel



| Part #       | Description                          | U/M | Price | Qty/ Box |
|--------------|--------------------------------------|-----|-------|----------|
| EF-NHC-112N  | 1-1/2" No-Hub Coupling, 2 Bands, NSF | EA  |       | 100      |
| EF-NHC-200N  | 2" No-Hub Coupling, 2 Bands, NSF     | EA  |       | 100      |
| EF-NHC-300N  | 3" No-Hub Coupling, 2 Bands, NSF     | EA  |       | 100      |
| EF-NHC-400N  | 4" No-Hub Coupling, 2 Bands, NSF     | EA  |       | 100      |
| EF-NHC-500N  | 5" No-Hub Coupling, 4 Bands, NSF     | EA  |       | 30       |
| EF-NHC-600N  | 6" No-Hub Coupling, 4 Bands, NSF     | EA  |       | 30       |
| EF-NHC-800N  | 8" No-Hub Coupling, 4 Bands, NSF     | EA  |       | 15       |
| EF-NHC-1000N | 10" No-Hub Coupling, 4 Bands, NSF    | EA  |       | 12       |



## No-Hub Coupling | Super Shielded

- Clamp/ Housing : SS 304 Stainless Steel
- Screw : SS 304 Stainless Steel
- Shield : 0.007" SS 301 Stainless Steel



| Part #        | Description                                    | U/M | Price | Qty/ Box |
|---------------|------------------------------------------------|-----|-------|----------|
| EF-NHC-112SS  | 1-1/2" No-Hub Coupling, 4 Bands, 3/8" HEX-Head | EA  |       | 75       |
| EF-NHC-200SS  | 2" No-Hub Coupling, 4 Bands, 3/8" HEX-Head     | EA  |       | 75       |
| EF-NHC-300SS  | 3" No-Hub Coupling, 4 Bands, 3/8" HEX-Head     | EA  |       | 48       |
| EF-NHC-400SS  | 4" No-Hub Coupling, 4 Bands, 3/8" HEX-Head     | EA  |       | 48       |
| EF-NHC-500SS  | 5" No-Hub Coupling, 6 Bands, 3/8" HEX-Head     | EA  |       | 15       |
| EF-NHC-600SS  | 6" No-Hub Coupling, 6 Bands, 3/8" HEX-Head     | EA  |       | 15       |
| EF-NHC-800SS  | 8" No-Hub Coupling, 6 Bands, 3/8" HEX-Head     | EA  |       | 15       |
| EF-NHC-1000SS | 10" No-Hub Coupling, 6 Bands, 3/8" HEX-Head    | EA  |       | 10       |



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

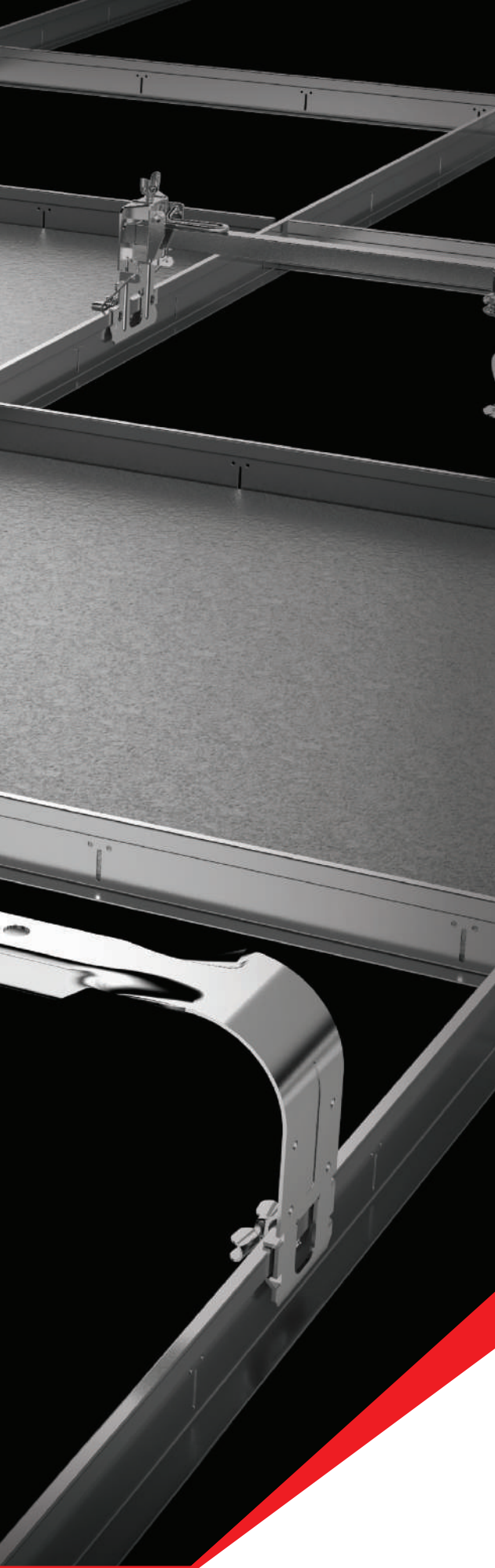
No-Hub  
Couplings

Flexible  
Sprinkler  
Drops



# ***Commercial Flexible Fire Sprinkler Drops***

The best solution for renovations and new construction.



## Commercial Flexible Fire Sprinkler Drops

### Features & Materials

|                                 |                                   |                         |
|---------------------------------|-----------------------------------|-------------------------|
| Lengths Available               | Unbraided                         | 28", 40", 48", 60", 72" |
|                                 | Braided                           | 24", 36", 48", 60", 72" |
| Outlet                          | 1/2", 3/4"(Straight or 90° Elbow) |                         |
| Types                           | Unbraided                         | Braided                 |
| Hose Type                       | Stainless Steel 304               |                         |
| Nut & Nipple                    | Zinc-Plated Steel                 |                         |
| Sealing Gasket / Isolation Ring | EPDM / NYLON                      |                         |

### Technical Data

|                    |             |                  |
|--------------------|-------------|------------------|
| Max. Temp.         | 225°F       |                  |
| Operation Pressure | 175 psi     |                  |
| Connections        | Inlet       | 1" NPT           |
|                    | Outlet      | 1/2" or 3/4" NPT |
| Max. Bend Radius   | Unbraided   | 4"(UL)           |
|                    | Braided     | 4"(UL), 8"(FM)   |
| K-Factors          | 1/2" Outlet | 5.6              |
|                    | 3/4" Outlet | 8.0              |

#### UNBRAIDED HOSE



#### BRAIDED HOSE



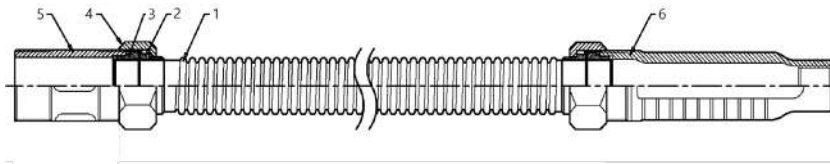
### Certifications

- UL
- FM



# Commercial *Flexible Fire Sprinkler Drops*

## Unbraided Flexible Hose



1. Tube
2. Isolation Ring
3. Sealing Gasket
4. Nut
5. Nipple(1")
6. Reducer

### Specifications

|                  |             |     |
|------------------|-------------|-----|
| Max. Temp.       | 150°F       |     |
| Max. Pressure.   | 203 psi     |     |
| Min. Bend Radius | 4"          |     |
| K-Factors        | 1/2" Outlet | 5.6 |
|                  | 3/4" Outlet | 8.0 |

### Size & Length

|        |                         |
|--------|-------------------------|
| Outlet | 1/2", 3/4"              |
| Inlet  | 1" NPT                  |
| Length | 28", 40", 48", 60", 72" |

### Friction Loss Data

EFU Series Unbraided Hose / TBSS



| Lengths (in.) | Outlet Connection | Maximum Number of 90° Bends | Equivalent Length of 1in. Schedule 40 Pipe, ft. |
|---------------|-------------------|-----------------------------|-------------------------------------------------|
| 28"           | 1/2"              | 2                           | 27                                              |
|               | 3/4"              | 2                           | 28                                              |
| 40"           | 1/2"              | 3                           | 37                                              |
|               | 3/4"              | 3                           | 41                                              |
| 48"           | 1/2"              | 3                           | 49                                              |
|               | 3/4"              | 3                           | 47                                              |
| 60"           | 1/2"              | 3                           | 63                                              |
|               | 3/4"              | 3                           | 64                                              |
| 72"           | 1/2"              | 4                           | 78                                              |
|               | 3/4"              | 4                           | 80                                              |

\* UL: 4" Minimum bend radius, where C=120

## Unbraided

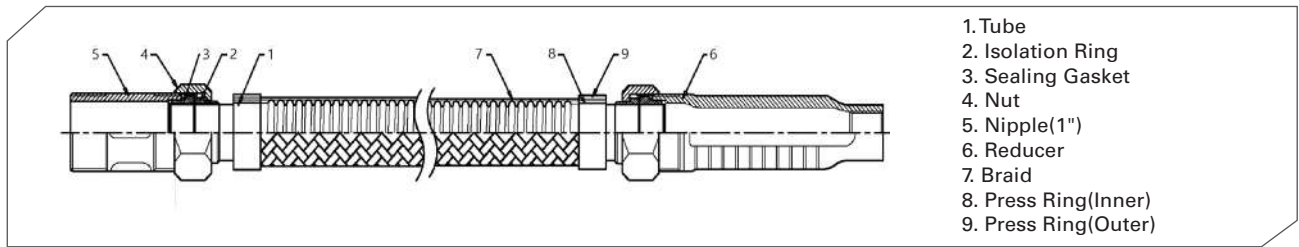
- Materials : Stainless Steel 304



| Part #  | Description       | U/M | Price | Qty/ Box |
|---------|-------------------|-----|-------|----------|
| EFU 228 | 1/2" FIP x 1" MIP | EA  |       | 20       |
| EFU 328 | 3/4" FIP x 1" MIP | EA  |       | 20       |
| EFU 240 | 1/2" FIP x 1" MIP | EA  |       | 20       |
| EFU 340 | 3/4" FIP x 1" MIP | EA  |       | 20       |
| EFU 248 | 1/2" FIP x 1" MIP | EA  |       | 10       |
| EFU348  | 3/4" FIP x 1" MIP | EA  |       | 10       |
| EFU 260 | 1/2" FIP x 1" MIP | EA  |       | 10       |
| EFU 360 | 3/4" FIP x 1" MIP | EA  |       | 10       |
| EFU 272 | 1/2" FIP x 1" MIP | EA  |       | 10       |
| EFU 372 | 3/4" FIP x 1" MIP | EA  |       | 10       |

# Commercial *Flexible Fire Sprinkler Drops*

## Braided Flexible Hose



### Specifications

|                  |             |     |
|------------------|-------------|-----|
| Max.Temp.        | 225°F       |     |
| Max.Pressure.    | 175 psi     |     |
| Min. Bend Radius | 4"          |     |
| K-Factors        | 1/2" Outlet | 5.6 |
|                  | 3/4" Outlet | 8.0 |

### Size & Length

|        |                         |
|--------|-------------------------|
| Outlet | 1/2", 3/4"              |
| Inlet  | 1" NPT                  |
| Length | 24", 36", 48", 60", 72" |

### Friction Loss Data

EFB Series Braided Hose / TBS Bracket Systems



| Lengths (in.) | Outlet Connection | Maximum Number of 90° Bends | Equivalent Length of 1in. Schedule 40 Pipe, ft. |
|---------------|-------------------|-----------------------------|-------------------------------------------------|
| 24"           | 1/2"              | 1                           | 18                                              |
|               | 3/4"              | 1                           | 18                                              |
| 36"           | 1/2"              | 2                           | 31                                              |
|               | 3/4"              | 2                           | 34                                              |
| 48"           | 1/2"              | 3                           | 48                                              |
|               | 3/4"              | 3                           | 51                                              |
| 60"           | 1/2"              | 4                           | 60                                              |
|               | 3/4"              | 4                           | 65                                              |
| 72"           | 1/2"              | 4                           | 71                                              |
|               | 3/4"              | 4                           | 72                                              |

\* UL: 4" minimum bend radius, where C=120

### Braided

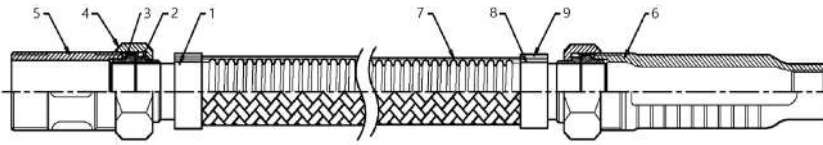
• Materials : Stainless Steel 304

| Part #  | Description       | U/M | Price | Qty/ Box |
|---------|-------------------|-----|-------|----------|
| EFB 224 | 1/2" FIP x 1" MIP | EA  |       | 20       |
| EFB 324 | 3/4" FIP x 1" MIP | EA  |       | 20       |
| EFB 236 | 1/2" FIP x 1" MIP | EA  |       | 20       |
| EFB 336 | 3/4" FIP x 1" MIP | EA  |       | 20       |
| EFB 248 | 1/2" FIP x 1" MIP | EA  |       | 10       |
| EFB 348 | 3/4" FIP x 1" MIP | EA  |       | 10       |
| EFB 260 | 1/2" FIP x 1" MIP | EA  |       | 10       |
| EFB 360 | 3/4" FIP x 1" MIP | EA  |       | 10       |
| EFB 272 | 1/2" FIP x 1" MIP | EA  |       | 10       |
| EFB 372 | 3/4" FIP x 1" MIP | EA  |       | 10       |



# Commercial *Flexible Fire Sprinkler Drops*

## Braided Flexible Hose



1. Tube
2. Isolation Ring
3. Sealing Gasket
4. Nut
5. Nipple(1")
6. Reducer
7. Braid
8. Press Ring(Inner)
9. Press Ring(Outer)

### Specifications

|                  |             |     |
|------------------|-------------|-----|
| Max.Temp.        | 225°F       |     |
| Max.Pressure.    | 175 psi     |     |
| Min. Bend Radius | 8"          |     |
| K-Factors        | 1/2" Outlet | 5.6 |
|                  | 3/4" Outlet | 8.0 |

### Size & Length

|        |                         |
|--------|-------------------------|
| Outlet | 1/2", 3/4"              |
| Inlet  | 1" NPT                  |
| Length | 24", 36", 48", 60", 72" |

### Friction Loss Data

EFB Series Braided Hose / OGSB,TBS Bracket Systems



| Lengths (in.) | Outlet Connection | Maximum Number of 90° Bends | Equivalent Length of 1in. Schedule 40 Pipe, ft. (with straight outlet) | Equivalent Length of 1in. Schedule 40 Pipe, ft. (with 90° outlet) |
|---------------|-------------------|-----------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------|
| 24"           | 1/2"              | 1                           | 27.0                                                                   | 28.4                                                              |
|               | 3/4"              | 1                           | 18.6                                                                   | 19.7                                                              |
| 36"           | 1/2"              | 2                           | 37.4                                                                   | 38.8                                                              |
|               | 3/4"              | 2                           | 30.4                                                                   | 30.9                                                              |
| 48"           | 1/2"              | 3                           | 54.9                                                                   | 57.1                                                              |
|               | 3/4"              | 3                           | 48.3                                                                   | 50.4                                                              |
| 60"           | 1/2"              | 4                           | 72.5                                                                   | 75.4                                                              |
|               | 3/4"              | 4                           | 66.2                                                                   | 69.9                                                              |
| 72"           | 1/2"              | 4                           | 90.5                                                                   | 90.9                                                              |
|               | 3/4"              | 4                           | 83.0                                                                   | 84.5                                                              |

FM : 8" minimum bend radius, where C=120

### Braided

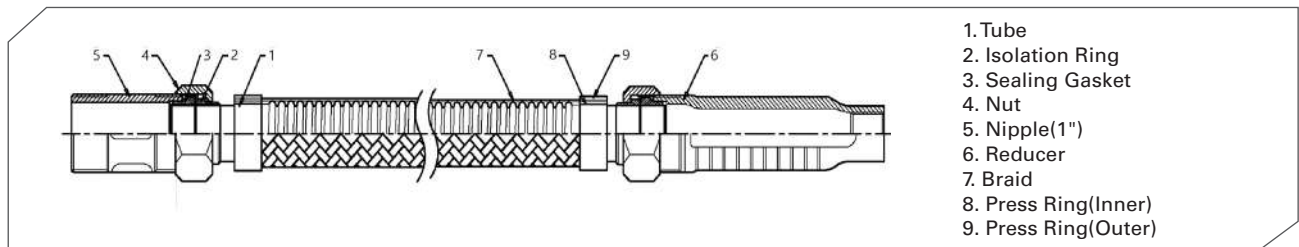
- Materials : Stainless Steel 304



| Part #  | Description       | U/M | Price | Qty/ Box |
|---------|-------------------|-----|-------|----------|
| EFB 224 | 1/2" FIP x 1" MIP | EA  |       | 20       |
| EFB 324 | 3/4" FIP x 1" MIP | EA  |       | 20       |
| EFB 236 | 1/2" FIP x 1" MIP | EA  |       | 20       |
| EFB 336 | 3/4" FIP x 1" MIP | EA  |       | 20       |
| EFB 248 | 1/2" FIP x 1" MIP | EA  |       | 10       |
| EFB 348 | 3/4" FIP x 1" MIP | EA  |       | 10       |
| EFB 260 | 1/2" FIP x 1" MIP | EA  |       | 10       |
| EFB 360 | 3/4" FIP x 1" MIP | EA  |       | 10       |
| EFB 272 | 1/2" FIP x 1" MIP | EA  |       | 10       |
| EFB 372 | 3/4" FIP x 1" MIP | EA  |       | 10       |

# Commercial *Flexible Fire Sprinkler Drops*

## Braided Flexible Hose (High Performance)



### Specifications

|                  |             |            |
|------------------|-------------|------------|
| Max.Temp.        | 225°F       |            |
| Max.Pressure.    | 175 psi     |            |
| Min. Bend Radius | 8"          |            |
| K-Factors        | 1/2" Outlet | 5.6        |
|                  | 3/4" Outlet | 8.0 / 14.0 |

### Size & Length

|        |                         |
|--------|-------------------------|
| Outlet | 1/2", 3/4"              |
| Inlet  | 1" NPT                  |
| Length | 24", 36", 48", 60", 72" |

### Friction Loss Data

EFB HP Series Braided Hose / OGSB, TBS Bracket Systems



| Lengths (in) | Outlet Connection | K-Factor   | Maximum Number of 90° Bends | Equivalent Length of 1in. Schedule 40 Pipe, ft. |
|--------------|-------------------|------------|-----------------------------|-------------------------------------------------|
| 24"          | 1/2"              | 5.6        | 1                           | 17.8                                            |
|              | 3/4"              | 8.0 / 14.0 | 1                           | 8.3 / 8.3                                       |
| 36"          | 1/2"              | 5.6        | 2                           | 23.0                                            |
|              | 3/4"              | 8.0 / 14.0 | 2                           | 13.9 / 13.7                                     |
| 48"          | 1/2"              | 5.6        | 3                           | 30.2                                            |
|              | 3/4"              | 8.0 / 14.0 | 3                           | 21.7 / 21.6                                     |
| 60"          | 1/2"              | 5.6        | 4                           | 37.4                                            |
|              | 3/4"              | 8.0 / 14.0 | 4                           | 29.5 / 29.5                                     |
| 72"          | 1/2"              | 5.6        | 4                           | 43.3                                            |
|              | 3/4"              | 8.0 / 14.0 | 4                           | 34.5 / 33.2                                     |

FM : 8" minimum bend radius, where C=120

### Braided

• Materials : Stainless Steel 304

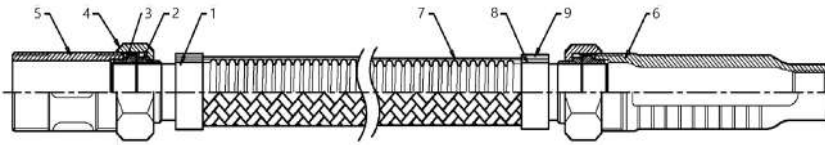


| Part #    | Description       | U/M | Price | Qty/ Box |
|-----------|-------------------|-----|-------|----------|
| EFB 224HP | 1/2" FIP x 1" MIP | EA  |       | 20       |
| EFB 324HP | 3/4" FIP x 1" MIP | EA  |       | 20       |
| EFB 236HP | 1/2" FIP x 1" MIP | EA  |       | 20       |
| EFB 336HP | 3/4" FIP x 1" MIP | EA  |       | 20       |
| EFB 248HP | 1/2" FIP x 1" MIP | EA  |       | 10       |
| EFB 348HP | 3/4" FIP x 1" MIP | EA  |       | 10       |
| EFB 260HP | 1/2" FIP x 1" MIP | EA  |       | 10       |
| EFB 360HP | 3/4" FIP x 1" MIP | EA  |       | 10       |
| EFB 272HP | 1/2" FIP x 1" MIP | EA  |       | 10       |
| EFB 372HP | 3/4" FIP x 1" MIP | EA  |       | 10       |



# Commercial *Flexible Fire Sprinkler Drops*

## Braided Flexible Hose (Ultra Performance)



1. Tube
2. Isolation Ring
3. Sealing Gasket
4. Nut
5. Nipple(1")
6. Reducer
7. Braid
8. Press Ring(Inner)
9. Press Ring(Outer)

## Specifications

|                  |             |            |
|------------------|-------------|------------|
| Max.Temp.        | 225°F       |            |
| Max.Pressure.    | 225 psi     |            |
| Min. Bend Radius | 6.5"        |            |
| K-Factors        | 1/2" Outlet | 5.6 / 8.0  |
|                  | 3/4" Outlet | 8.0 / 14.0 |

## Size & Length

|        |                          |
|--------|--------------------------|
| Outlet | 1/2", 3/4"               |
| Inlet  | 1" NPT or 1-1/4" Grooved |
| Length | 24", 36", 48", 60", 72"  |

## Friction Loss Data

EFB UP Series Braided Hose / OGSB,TBS Bracket Systems



| Lengths (in) | Outlet Connection | K-Factor   | Maximum Number of 90° Bends | Equivalent Length of 1in. Schedule 40 Pipe, ft. |
|--------------|-------------------|------------|-----------------------------|-------------------------------------------------|
| 24"          | 1/2"              | 5.6 / 8.0  | 1                           | 2.1 / 3.6                                       |
|              | 3/4"              | 8.0 / 14.0 | 1                           | 3.6 / 3.8                                       |
| 36"          | 1/2"              | 5.6 / 8.0  | 2                           | 4.5 / 5.1                                       |
|              | 3/4"              | 8.0 / 14.0 | 2                           | 6 / 6                                           |
| 48"          | 1/2"              | 5.6 / 8.0  | 3                           | 6.9 / 6.6                                       |
|              | 3/4"              | 8.0 / 14.0 | 3                           | 8.4 / 8.3                                       |
| 60"          | 1/2"              | 5.6 / 8.0  | 4                           | 9.4 / 8.7                                       |
|              | 3/4"              | 8.0 / 14.0 | 4                           | 10.9 / 10.6                                     |
| 72"          | 1/2"              | 5.6 / 8.0  | 4                           | 11.9 / 9.7                                      |
|              | 3/4"              | 8.0 / 14.0 | 4                           | 13.4 / 12.9                                     |

FM : 6.5" minimum bend radius, where C=120

## Braided

- Materials : Stainless Steel 304



| Part #    | Description       | U/M | Price | Qty/ Box |
|-----------|-------------------|-----|-------|----------|
| EFB 224UP | 1/2" FIP x 1" MIP | EA  |       | 20       |
| EFB 324UP | 3/4" FIP x 1" MIP | EA  |       | 20       |
| EFB 236UP | 1/2" FIP x 1" MIP | EA  |       | 20       |
| EFB 336UP | 3/4" FIP x 1" MIP | EA  |       | 20       |
| EFB 248UP | 1/2" FIP x 1" MIP | EA  |       | 10       |
| EFB 348UP | 3/4" FIP x 1" MIP | EA  |       | 10       |
| EFB 260UP | 1/2" FIP x 1" MIP | EA  |       | 10       |
| EFB 360UP | 3/4" FIP x 1" MIP | EA  |       | 10       |
| EFB 272UP | 1/2" FIP x 1" MIP | EA  |       | 10       |
| EFB 372UP | 3/4" FIP x 1" MIP | EA  |       | 10       |

# Commercial *Flexible Fire Sprinkler Drops*

**Parts** for Unbraided and Braided Hoses (Standard, High Performance, Ultra Performance)

## Reducer & Nipple

| Image | Part #                         | Description                               |
|-------|--------------------------------|-------------------------------------------|
|       | RDL 12                         | Reducer 1/2" x 6"TXT (MXF)                |
|       | RDL 34                         | Reducer 3/4" x 6"TXT (MXF)                |
|       | LRDS 12 or 34<br>LRDL 12 or 34 | Elbow Reducer Short<br>Elbow Reducer Long |

| Image | Part #        | Description        |
|-------|---------------|--------------------|
|       | RD 127 or 347 | 7" Reducer         |
|       | RD 128 or 348 | 8" Reducer         |
|       | RD 129 or 349 | 9" Reducer         |
|       | NP 1          | Nipple 1" x 2-3/8" |
|       | SQ25          | 25" Stock Bar      |
|       | SQ50          | 50" Stock Bar      |

## Center Bracket & End Bracket & One Piece Bracket

| Image | Part # | Description                                                 |
|-------|--------|-------------------------------------------------------------|
|       | SSB    | Snap Clamp Center Bracket For Stock Bar                     |
|       | OSSB   | Open Gate Snap Center Bracket For Stock Bar                 |
|       | OSSBW  | Open Gate Snap Side Wall Bracket For Stock Bar              |
|       | OSSBJ  | Open Gate Bracket With Mounting Threaded Rod                |
|       | TBS    | Snap On T-Bar End Bracket (for recessed or concealed heads) |
|       | HCB    | Hat Furring Channel End Bracket                             |

| Image | Part #  | Description                   |
|-------|---------|-------------------------------|
|       | MSB     | Metal Stud End Bracket        |
|       | WSB     | Wood Beam Stud End Bracket    |
|       | OTBS-PA | Pre-assembled 24" or 48"      |
|       | TBS-PA  | Pre-assembled 24" or 48"      |
|       | OGSB-02 | Open Gate Snap System Bracket |

| Image | Part # | Description |
|-------|--------|-------------|
|       | GR     | EPDM Gasket |

| Image | Part # | Description          |
|-------|--------|----------------------|
|       | PR     | NYLON Isolation Ring |



***Flexible Fire Sprinkler Drops for  
Industrial Ducts & Cleanroom  
Ceilings***



## Flexible Fire Sprinkler Drops for Industrial Ducts / Cleanrooms

### Applications

| Industrial Ducts            |
|-----------------------------|
| Round or Square Metal Ducts |
| Cleanrooms                  |
| Specially Designed Ceilings |

### Materials

| Tube & Nipples | Stainless Steel 304 |                                 |
|----------------|---------------------|---------------------------------|
| Flange         | ABS (Duct)          | Stainless Steel 304 (cleanroom) |
| O-ring         | EPDM                | No O Ring                       |

### Specifications

| Max. Pressure     | 175 psig    |     |
|-------------------|-------------|-----|
| Max. Temperature. | 225°F       |     |
| Min. Bend Radius  | 8"          |     |
| K-Factor          | 1/2" Outlet | 5.6 |

### Features

| Size   | 1/2" Outlet, 1" Inlet |  |
|--------|-----------------------|--|
| Length | 30", 47", 67"         |  |
| Type   | Braided               |  |

### Certification

- FM



### Ducts



### Cleanroom Ceilings



Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

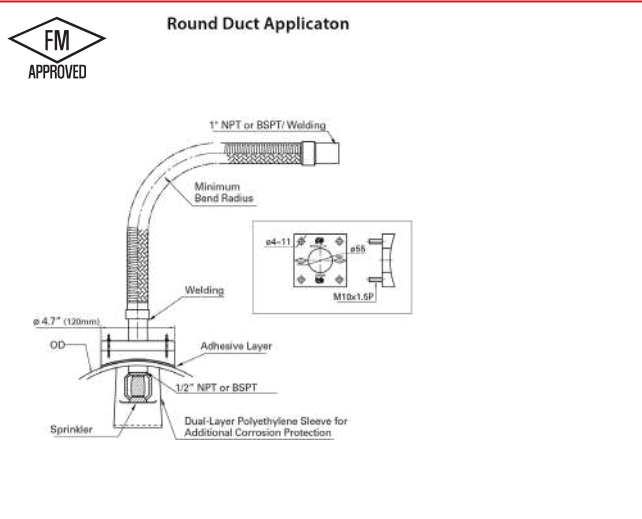
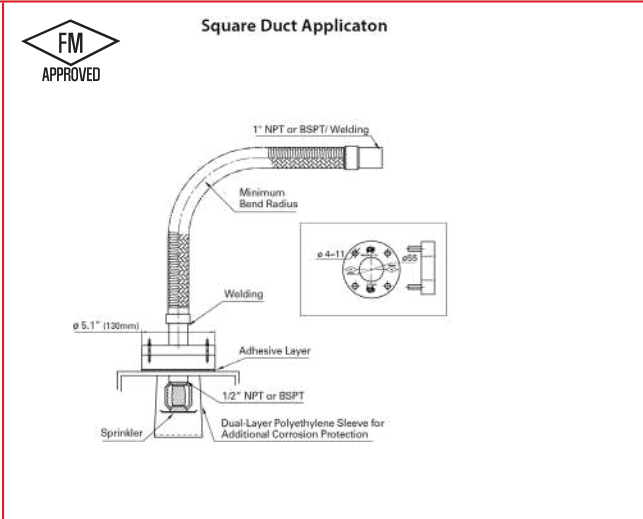
Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# Flexible Sprinkler Drops for *Industrial Ducts*

|                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>Round Duct Application</b></p> <p>FM APPROVED</p> <p>1" NPT or BSPT/ Welding</p> <p>Minimum Bend Radius</p> <p>Welding</p> <p>ø 4.7" (120mm)</p> <p>OD</p> <p>Adhesive Layer</p> <p>1/2" NPT or BSPT</p> <p>Sprinkler</p> <p>Dual-Layer Polyethylene Sleeve for Additional Corrosion Protection</p> <p>ø 4-11</p> <p>#55</p> <p>M10x1.5P</p> |  <p><b>Square Duct Application</b></p> <p>FM APPROVED</p> <p>1" NPT or BSPT/ Welding</p> <p>Minimum Bend Radius</p> <p>Welding</p> <p>ø 5.1" (130mm)</p> <p>Adhesive Layer</p> <p>1/2" NPT or BSPT</p> <p>Sprinkler</p> <p>Dual-Layer Polyethylene Sleeve for Additional Corrosion Protection</p> <p>ø 4-11</p> <p>#55</p> |
| <p><b>Round Duct Application</b></p> <p>EFDS-01A ~ 03A</p>                                                                                                                                                                                                                                                                                                                                                                           | <p><b>Square Duct Application</b></p> <p>EFDC-01A ~ 03A</p>                                                                                                                                                                                                                                                                                                                                                  |

- Applicable for round and square ducts
- Pre-installed double layer polybag protects the life of the sprinkler head.

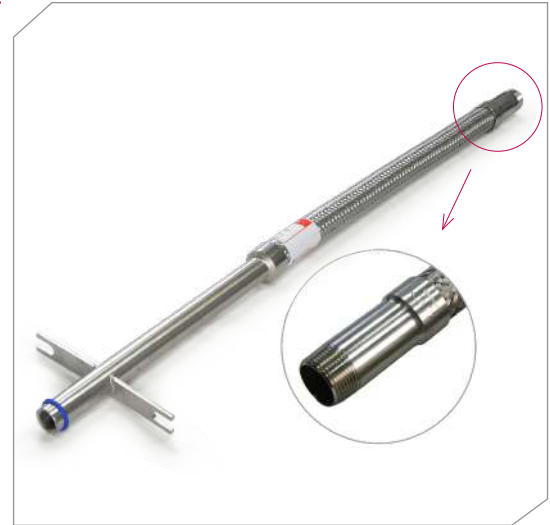
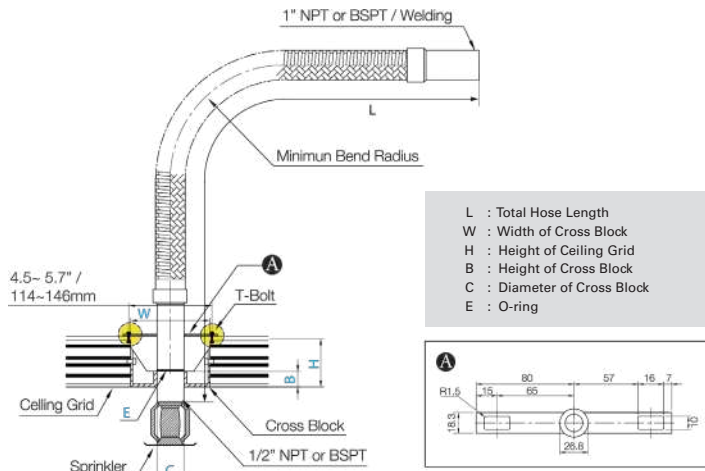
## Model Numbers and Friction Loss Data

| Model#         | Length | Outlet | Max. # of 90° Bend | Equivalent Length of 1" Sch. 40 pipe in ft. |
|----------------|--------|--------|--------------------|---------------------------------------------|
| EFDC/ EFDS-01A | 30"    | 1/2"   | 1                  | 8.7                                         |
| EFDC/ EFDS-02A | 47"    | 1/2"   | 3                  | 16.7                                        |
| EFDC/ EFDS-03A | 67"    | 1/2"   | 4                  | 22.5                                        |

- Data on maximum number of bend(s) was provided as a test parameter by Easyflex and FM used maximum of 4 bends for their tests.

| Polybag                                                                                                                                 | Mounting Flange For Square Duct (ABS)                                               | Mounting Flange for Round Duct (ABS)                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                      |  |  |
| <p><b>Mounting Flange For Square Duct (STS)</b></p>  |                                                                                     |                                                                                       |

## Flexible Sprinkler Drops for **Cleanrooms**



Sprinkler and escutcheon plate are not included

EFSPC-01A ~ 03A

### Benefits

- Ready to install out of the box
- Accelerates cleanroom installation and certification
- Allows quick and easy relocations
- Dissipates any vibration even during seismic activities

### Model Numbers and Friction Loss Data

| Model#    | Length | Outlet size | Max.# of 90° Bend | Equivalent Length of 1"Sch. 40 pipe in ft. |
|-----------|--------|-------------|-------------------|--------------------------------------------|
| EFSPC-01A | 30"    | 1/2"        | 1                 | 1.6                                        |
| EFSPC-02A | 47"    | 1/2"        | 3                 | 9.5                                        |
| EFSPC-03A | 67"    | 1/2"        | 4                 | 13.6                                       |

- Data on Max. number of bend was provided as a test parameter by Easyflex and FM used a Max. of 4 bends for their test.

Gas  
Connectors

Commercial  
Gas  
Connectors

Gas  
Line System

Gas  
CSST Fittings

Water  
Line System

Water  
CSST Fittings

Braided  
Water  
Connectors

Supply stop  
Valve

Water  
Heater  
Connectors

Isolation  
Valves

Thermal  
Expansion  
Tanks

No-Hub  
Couplings

Flexible  
Sprinkler  
Drops

# *TERMS AND CONDITIONS*

## **ACCEPTANCE**

Buyers expressly agree to terms and conditions when submitting a purchase order.

## **PAYMENT TERMS**

Prices are F.O.B Easyflex distribution center and are subject to change at Easyflex's discretion. Our terms are 1% or 2% discount (as determined by product line) applied with payment within 10 days of receipt of goods and full payment of purchase price and other charges is due within thirty (30) days after invoice date\*. Orders must be in box quantity, minimum of \$300. Broken boxes or orders below the minimum amount will incur a \$20 handling fee. If full payment is not received by the applicable due date, Buyer will incur a monthly late charge equal to 1.5% of all outstanding amounts in addition to other related collection or legal fees. Buyer shall be responsible for the payment of all taxes, duties, customs and other fees of any nature imposed to this transaction.

\*Terms for qualified credit-approved buyers only.

## **CREDIT APPROVAL**

All orders are subject to approval of Buyer's credit. If Buyer's credit is not approved by Easyflex prior to shipment of the Products, Easyflex may require different terms of payment from those specified in this document, including, but not limited to, requiring first three orders to be C.O.D. or full payment before shipment, requiring Buyer to pay Easyflex C.O.D or to return the products to Easyflex at Buyer's expense.

## **ORDERS**

All orders are subject to acceptance by Easyflex and cannot be cancelled once accepted. No orders can be amended except with Easyflex written approval, and upon terms except Easyflex against any losses including loss of profit on additional costs resulting there from.

## **DELIVERY**

Easyflex shall ship the Products to the location designated by Buyer via commercial carrier or private delivery at the date provide by Buyer in purchase order or earliest available shipment date, by most economical means. Easyflex will notify Buyer of changes or delays in shipping when information becomes available. Changes in the shipping schedule by Buyer may, at Easyflex's discretion, result in an increase in the freight costs.

## **WARRANTY**

All Products sold by Easyflex are warranted to be free from defects in material and workmanship to the extent, in the manner and during the period provided in the applicable express warranty extended to Easyflex by the manufacture of such Products and to the extent Easyflex is able to enforce such manufacturer's warranty. Warranty varies dependent upon product line. Please see product line warranty information for specific information.

# *TERMS AND CONDITIONS*

## **RETURNS AND CLAIMS**

All claims for Products damaged and or lost during shipping must be made within seven (7) days after receipt to Easyflex or, if a common carrier is used, made to the common carrier within their specified claims period. Buyer will report to Easyflex exactly how the Products were damaged and request a Return Authorization Number to return the damaged Products to Easyflex. After Easyflex has inspected the damaged Products, Easyflex may replace the damaged Products at no cost to the Buyer, or issue a credit memo to the Buyer's account, or may disallow Buyer's claim, or may refer claim to the common carrier, if used. When the product is damaged in shipment, the Buyer is responsible for recovering any and all damages from the common carrier.

No returns will be accepted without our Return Authorization Number and there will be a 15% restocking fee. Buyer is responsible for all shipping and freight charges for returning products to Easyflex. In the first fifteen (15) days after a purchase, the Buyer may return the Products for full account credit and or exchange for products of the same price or greater. Buyer must tell Easyflex the specific reason(s) why they want to return the item. Easyflex may, at its discretion, not accept non-damaged Products for credit to the Buyer's account. All non-damaged Product(s) must be in resalable condition. After Easyflex confirms that the non-damaged Products are resalable, Easyflex will credit the Buyer's account.

## **NON-CONFORMING PRODUCTS**

Buyer shall notify Easyflex within writing seven (7) days after delivery of any deficiencies or shortages; otherwise all such claims shall be deemed waived by Buyer. The use or resale by Buyer of any Products claimed to be non-conforming or deficient shall constitute acceptance of such items by Buyer. Buyer shall have no right to withhold payment of the purchase price or to adjust the amount of the purchase price because of such claims; the sole remedy shall be the replacement or repair by Easyflex, at Easyflex's option, of non-conforming or deficient items in accordance with the Disclaimer and Limited Warranty below.

## **CONFIDENTIALITY**

Buyer and its directors, officers, employees and agents shall not disclose to any third party any information pertaining to the goods provided or services performed hereunder, or pertaining to Easyflex's business or operations which obtains or has access to in connection herewith, without the prior written consent of Easyflex.

## **NO WAIVER OF DEFAULTS**

No failure by Easyflex to enforce at any time any of the terms or conditions of this agreement shall constitute a waiver thereof or in any way impair Easyflex's right at any time to avail itself of such remedies as it may have to enforce such terms or conditions. No waiver by Easyflex hereunder will be effective unless in writing and signed by Easyflex.

# *TERMS AND CONDITIONS*

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# *TERMS AND CONDITIONS*

## **SEVERABILITY**

Any provision of this agreement that is unenforceable in any jurisdiction shall be ineffective to the extent of such unenforceability (but shall be enforced to the maximum extent permissible) without invalidating the remaining provisions hereof.

## **GOVERNING LAW**

This agreement shall be governed by the laws of the state from which the Easyflex corporate office resides (California), without giving effect to its principles of conflicts of law.

## **FORCE MAJEURE**

Easyflex shall not be liable for any breach hereunder, including the failure to deliver or delays in delivery for causes beyond the control of Easyflex or Easyflex's suppliers or subcontractors, including, but not limited to, unavailability or excessive cost of material, strikes, labor slowdowns and stoppages, labor shortages, lockouts, fires, floods, earthquakes, storms, drought, adverse weather, riots, thefts, accidents, embargoes, war (whether or not declared) or other outbreaks of hostility, civil strike, acts of government, acts of God, acts of the public enemy, machinery breakdowns, delay or unavailability of carriers of suppliers, shortages of labor, and government acts or regulation, order or injunctions, or other reasons, whether similar or dissimilar to the forgoing (together a "Force Majeure Event"). In addition, in the event of a Force Majeure Event (i) the time for Easyflex's performance shall be reasonably extended (ii) Easyflex and Buyer shall take reasonable steps to adjust all affected dates in the agreement and (iii) an adjustment in the purchase price may be made for the resulting additional costs to Easyflex upon proof provided to Buyer.

# **LIMITED WARRANTY**

Subject to the conditions and limitations in this Limited Warranty, Easyflex warrants to the real owner as installed by qualified installers, sold by Easyflex, under normal conditions of use, gas connectors, water connectors and components will be free from failure caused by manufacturing defects in material and workmanship for the lifetime of the original installation.

**For VectorFlex CSST warranty, please visit [vectorflex.com](http://vectorflex.com).**

**For VectorFlow CSST products, this limited warranty will be for (1) year from the original date of purchase.**

**For all gas connectors, this limited warranty will be for two (2) years from the original date of purchase.**

**For all water connectors, this limited warranty will be for one (1) year from the original date of purchase.**

**For all no hubs, this limited warranty will be for one (1) year from the original date of purchase.**

Under this warranty, you only have a right to reimbursement if the failure or leak resulted from a manufacturing defect in the products covered by this warranty and occurred during the warranty period. You do not have a remedy or right of reimbursement under this warranty and this warranty does not apply if the failure or any resulting damage is caused by:

- Components other than those manufactured or sold by Easyflex
- Not designing, installing, inspecting or testing the connector in accordance with Easyflex's installation instructions at the time of the installation, applicable code requirements, and good plumbing/ piping/ fitting practices
- Improper handling and protection of the product prior to or during installation, inadequate freeze protection, exposure to pressures or temperatures in excess of the limitations on the tubing or fittings, or application of unauthorized solvents or chemicals
- Acts of nature such as earthquakes, fire, flood, or landslide
- Damage caused by lightning without proper grounding as per NFPA 780, NEC 2005 article 250.70 and clamps complying with UL 467 standards
- Exposure to abnormal environmental conditions relative to the norm for the installation site and outside manufacturer specified pressure and temperature range; including chemical and biological substance exposure
- Freezing during or after the installation or inadequate freeze protection
- Exposure to operating use and or conditions outside those specified by manufacturer

EASYFLEX SHALL NOT BE LIABLE FOR CONSEQUENTIAL ECONOMIC LOSS DAMAGES UNDER ANY LEGAL THEORY AND WHETHER ASSERTED BY DIRECT ACTION, FOR CONTRIBUTION OR INDEMNITY OR OTHERWISE. THE ABOVE LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Other than this limited warranty, Easyflex does not authorize any person or firm to create for it any other obligation or liability in connection with its products.

\*Please request and read the full version of Easyflex Warranty explanation for more details.

# PURCHASE ORDER



Date

Customer Acct. #

E-mail Address

Bill To

Ship To

Phone

FAX

| P.O.# | Payment Terms | Freight Terms | Ship Via | Ship Date | Salesman/ Buyer |
|-------|---------------|---------------|----------|-----------|-----------------|
|       |               | PPD / COL     |          |           |                 |

| Item # | Qty | Part # | Description | Unit Price | Total |
|--------|-----|--------|-------------|------------|-------|
| 1      |     |        |             |            |       |
| 2      |     |        |             |            |       |
| 3      |     |        |             |            |       |
| 4      |     |        |             |            |       |
| 5      |     |        |             |            |       |
| 6      |     |        |             |            |       |
| 7      |     |        |             |            |       |
| 8      |     |        |             |            |       |
| 9      |     |        |             |            |       |
| 10     |     |        |             |            |       |
| 11     |     |        |             |            |       |
| 12     |     |        |             |            |       |
| 13     |     |        |             |            |       |
| 14     |     |        |             |            |       |
| 15     |     |        |             |            |       |

This order is only subject to approval by Easyflex. Any part or all is subject to cancellation or delay in delivery due to government regulation or contingencies beyond Easyflex's control. All prices subject to change without notice.