

Stainless Steel Flexible Gas Connectors

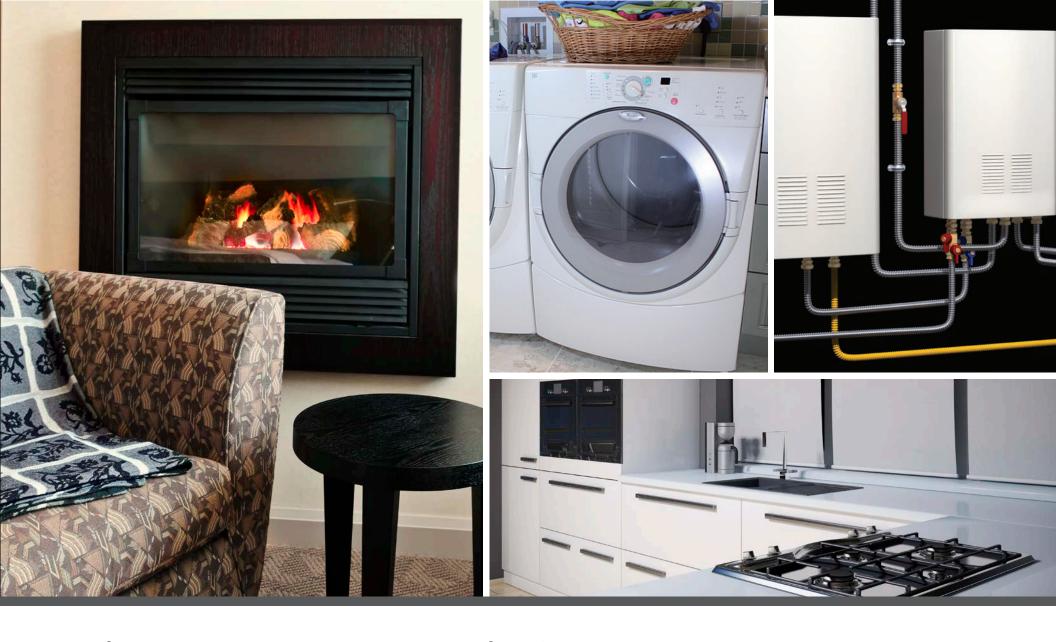
Complete selection of flexible connectors for gas appliance applications.

FC STEEL stainless steel gas connectors are engineered with added safety in mind. Their proprietary polymer coating is designed to withstand prolonged exposure to harsh household chemicals.

Certifications & Approvals

- ANSI Z 21.24 / CSA 6.10 Gas Appliances
- ANSI Z 21.69 / CSA 6.16 Movable 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





Applications

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

Benefits

- Reduced Labor Costs
- Corrosion & Scaling Resistant
- No Special Tools required
- Environmentally Safe

Combining flexibility, durability, and functionality, FC STEEL 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've got the gas connectors that will meet your need.



FC STEEL Stainless Steel Gas Appliance Connectors

FC STEEL gas connectors offer you a full spectrum of product varieties to fit your need—whatever it may be. Corrosion Resistant Stainless Steel 304 Tubing and Zinc-plated Steel Fittings for 100% quality you can trust.



FC STEEL Yellow Coated Gas Appliance Connectors

FC STEEL YELLOW COATED gas connectors offer the same full-spectrum product varieties with the Safe-Guard Yellow Epoxy Coating for added durability and extra protection from corrosion, chemical stains from common household products, and plumbing repairs. Corrosion Resistant Stainless Steel 304 Tubing and Zinc-plated Steel Fittings for 100% quality you can trust.



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

FC STEEL Black Coated Gas Appliance Connectors

For GAS HEARTH Installation FC STEEL 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 plumbing repairs. With the additional benefit of the discreet black coating for minimal visibility, FC STEEL BLACK COATED gas connectors are the ideal product for the fireplace, BBQ grill, or radiant heaters. Corrosion Resistant Stainless Steel 304 Tubing and Zinc-plated Steel Fittings for 100% quality you can trust.

Pressure-Temperature

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



FC STEEL Yellow Coated Gas Appliance Connectors

Easy to install • Smoother, burnished connector ends seal with less torque, making installation easier. Advanced corrosion resistance • Uniform coating over the length of the connector provides complete corrosion resistance. Greater strength and flexibility • High tensile strength stainless steel is less susceptible to work hardening. • Deep corrugations enhance flexibility, making installation easier.

FC STEEL Black Coated Gas Appliance Connectors



Unsightly gas connector detracts from the beauty of the fire and must be painted or hidden.



Black Coated Gas Connector from EASYFLEX virtually disappear within the hearth with no effort or mess.

Specifically engineered for hearth applications such as gas logs, fireplace inserts and free-standing fireplaces

Durable connector

is made of heavy-duty 304 stainless steel.

Hi-temperature black epoxy coating

hides the connector from view while withstanding up to 350° F.





CSA design certified

is made of heavy-duty 304 stainless steel.

Proven quality

from the only ISO:9001 certified gas connector manufacturer.

Black adapters and flare nuts

from the only ISO:9001 certified gas connector manufacturer.

Parts Numbering System

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 |

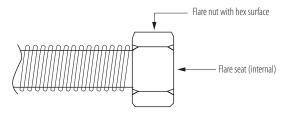
LENGTH

| Part# | Size (ID) |
|-------|-----------|
| 12" | 25/ Box |
| 18" | 25/ Box |
| 24" | 25/ Box |
| 30" | 25/ Box |
| 36" | 25/ Box |
| 48" | 25/ Box |
| 60" | 12/ Box |
| 72" | 12/ Box |
| | |

Glossary

Flare

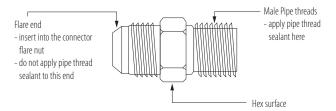
Tapered (beveled) surface of connector nut or fitting where the seal occurs. Pipe thread sealant should never be applied to a flare surface.



Male Pipe Threads

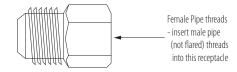
the external pipe thread that protrudes from the fitting and fits into a female pipe thread.

(Also referred to as MIP – Male Iron Pipe)



Female Pipe Threads

the internal pipe thread that receives a male pipe thread. (Also referred to as FIP - Female Iron Pipe)



Male tapped female

all male connector fittings are threaded internally to also function as a female fitting one thread size smaller.

Safety Precautions:

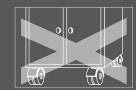
▲ DAN GER: Read and Understand All Precautions Carefully Before Installing

Gases can be ignited by a flame or spark, which may result in an explosion. Please follow installation instructions carefully. When in doubt, call a licensed plumber or your local gas company.

- DO NOT reuse connectors, fittings and valves; they are designed for use on original installation only. Removal of connector and additional handling may damage connector making it unsafe for reuse.
- DO NOT use this connector if it has been in a fire. Fire can damage the connector making it unsafe for use.
- DO NOT use this connector on appliances equipped with rollers or casters. This connector is designed for limited movement after installation.

 Repeated bending, flexing or extreme vibration can cause metal fatigue.

 Normal vibration and movement of standard household gas dryer or similar appliance is okay.



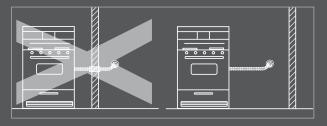
- DO NOT use connectors to make a direct connection to LP gas containers. Connection MUST be made to the regulator device only.
- DO NOT use connector on appliances in moving vehicles such as RV's, trailers, etc. However, this product may be used in manufactured housing (permanent residence mobile homes).



- DO NOT use this connector with infrared radiant tube heaters. Cyclic movement of heater may cause connector to fail.
- Keep cleaning solvents containing ammonia or chlorine away from an uncoated or damaged gas connector. DO NOT store these solutions near connector or use the connector near a swimming pool or hot tub. Water rinse the connector thoroughly if exposed to these chemical products.



- DO NOT join this connector to another connector.
- DO NOT stretch connector to make it fit. Connector must be at least 2 to inches longer than the distance from the gas supply line to appliance.
- <u>WARNING:</u> Connector is for use in accessible locations only. DO NOT conceal connector or run connector through enclosed outdoor BBQ pits, walls, partitions, floors or appliance panels.



1.

Clean all pipe threads with a wire brush and rag to ensure connections are free of any debris such as metal shavings, rust, dirt, oil or water.

Fuel gas codes require a gas shut-off valve within six feet of the appliance

2.

Warp thread tape staring at outer adge of threads moving in toward hex

thread tape or sealant is applied to the pipe threads.

Do not apply sealant on the flared

3.

Wrench tighten connection.

If necessary, thread new manua shut-off valve onto gas supply pipe, wrench tighten.







▲ Turn off gas supply before disconnecting old appliance. In absence of manual shut-off valve near appliance location, gas MUST be shut off at main valve, near meter.

4

Thread flare nuts of gas connector onto shut-off valve and steel fitting. Wrench tighten all connections.

5.

Slowly turn on gas supply and check for leaks

6

If leak test confirms that connections do not leak and no gas smell is present, turn on appliance







Required System Parts

- Qty. 1 : Gas connector
- Qty. 1 : Adapter / valve

Required tool

- Wrenches
- Pipe dope or gas pipe thread tape
- Leak detection solution

INSTALLATION INSTRUCTION

1.
Cut the stainless steel tube

2. Swaging

Complete swaging



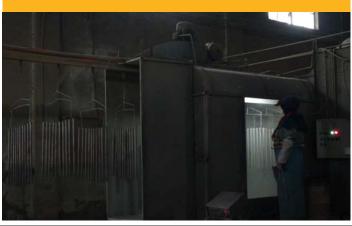




4.

First leak test

5. Enovy coatin



6.

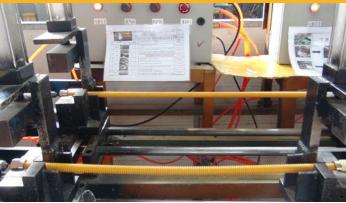
Complete coating



/. Ti alatau a 8. Second leak test 9.

Join the fitting to pipe







10.

Attach the label

11.

Packing





Product Testing

| Strength Test | Withstands an internal hydrostatic pressure of 250 psi (17MPa) without bursting or evidence of leakage. |
|--|---|
| Bending Test | Withstands 30 bends without leakage in depth of not more than 2 inches of water. |
| Torsion Test | Withstands 15 applications of 90° twists. |
| Durability at High Temperature Test | Withstands a temperature of 800°F |
| Strength of Fittings | Does not leak within a tighten 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 21.69 Connectors for Movable Gas Appliances
- ANSI Z 21.75 Connectors for Outdoor Appliances and Manufactured Homes

Canada | CSA Canadian Standards Association

- CGA 6.10 Connectors for Gas Appliances
- CSA 6.16 Connectors for Movable Gas Appliances
- CSA 6.27 Connectors for Outdoor Appliances and Manufactured
- Meets the requirements of CSA B149.1 National Gas and Propane Installation Codel



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 | 71,100 | 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 | 215,900 | 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. FC STEEL Gas Connectors exceed these minimum flow capacities requirements.