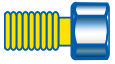


Sizing Chart

To identify the correct fitting size, measure and compare the gas connector nut or fitting diameter to the illustrations below.

GAS CONNECTOR FLARE NUTS



Illustrations show actual outside diameter (OD)

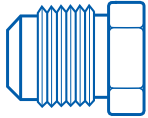
GAS FLARE FITTINGS



Illustrations below show actual fitting size.



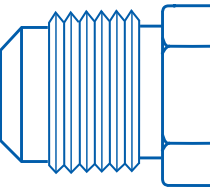
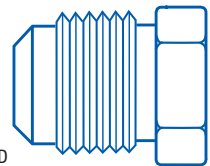
3/8 in OD TUBE/FLARE



1/2 in OD TUBE/FLARE

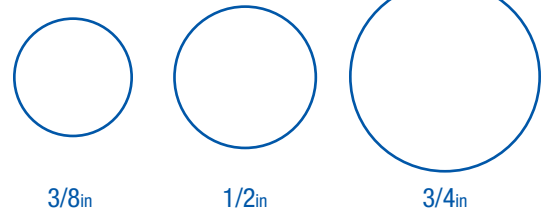


5/8 in OD TUBE/FLARE (15/16-16 Thread)



PIPE FITTING THREADS

To identify correct fitting pipe thread, measure the fitting thread to the circle below. Circles indicate actual pipe size; NOT for flare end.



3/8in

1/2in

3/4in

BrassCraft

Manufacturer assumes no responsibility for failure due to improper installation.
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BrassCraft®

How to Select & Install Gas Appliance Connectors



THIS IS OUR CRAFT.™

BrassCraft®

The Safe, Easy Way to Install Gas Home Appliances.

Coated stainless steel gas appliance connectors provide a safe and easy method to install gas ranges, water heaters, ovens, furnaces, dryers and gas logs. The corrugated tube allows the flexibility you need to align the appliance to the rigid gas supply pipe. The proprietary coating provides the best available corrosion protection from most harsh household cleaning and plumbing repair chemicals.

- Approved for use with natural, manufactured, LP (propane) and LP air mixture gases with internal line pressure no greater than 1/2 lb. per square inch (psi).
- CSA certified*
- 100% leak tested

*Appliance connectors sold without end fittings are not CSA certified.



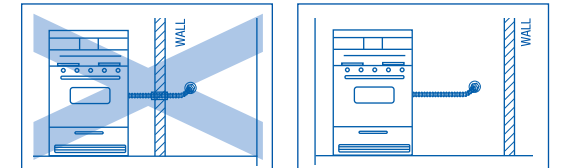
Easy 3-Step Gas Connector Selection

1 APPLIANCE TYPE

1/2 in ID (5/8 in OD) Tube/Flare	3/8 in ID (1/2 in OD) Tube/Flare	1/4 in ID (3/8 in OD) Tube/Flare
Large Demand Appliance	Moderate Demand Appliance	Low Demand Appliance
Furnace Boiler Pro-Grade Range	Water Heater Range Dryer	Space Heater Gas Log Fireplace Dryer

2 CONNECTOR LENGTH

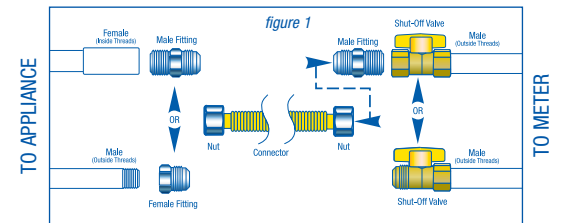
- Measure distance from gas supply to appliance. Add sufficient length to allow access behind appliance.



WARNING! 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. DO NOT install connector inside an appliance. DO NOT route connector in close proximity to a flame (e.g. gas log). If necessary, use appropriate piping extension to make connection outside appliance. The entire connector must be visible for inspection.

3 FITTINGS AND VALVES

- DO NOT CONNECT gas connector nuts directly to pipe threads of gas supply pipe or appliance.
- Match inlet of appliance and gas ball valve to fittings on connector. (See figure 1)



Before Installing, Read All Instructions Carefully.

Even an outstanding system can become a hazard due to poor installation, inspection or testing. Please read all precautions and installation instructions before beginning connector installation.

Tools Need for Installation:

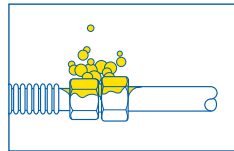
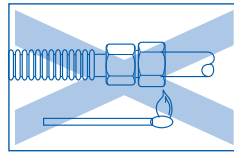
- (2) 10 in adjustable wrenches
- Thread sealant
- Leak detection solution

Installation Instructions

The appliance must be installed according to the National Fuel Gas Code, ANSI Z223.1/NFPA 54, and/or National Gas and Propane Installation Code, CSA B149.1. This connector is not rated for applications where the fuel gas pressure exceeds 1/2 psig (3.5 kPa).

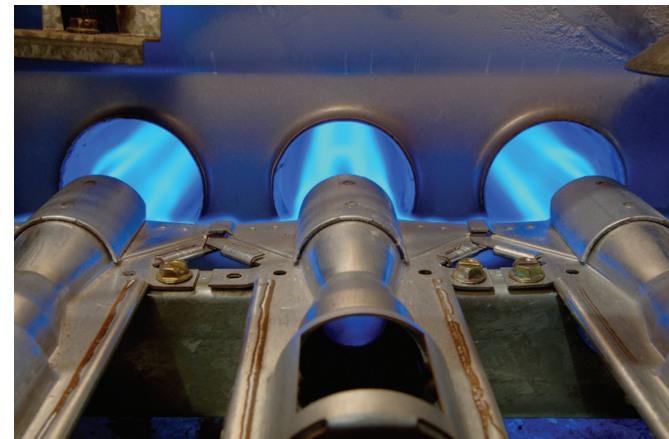
- 1 Connector is not to be installed underground or for use in contact with the ground.
- 2 Fuel gas codes require the use of manual shut-off valves within 6 ft. upstream of all appliances. The manual shut-off valve must be in the same room as the connector and within easy reach. Connector must be located between the valve and the appliance.
- ⚠ WARNING!** Turn off gas supply before disconnecting old appliance.
- 3 **Clean all pipe threads** with a wire brush and rag to ensure connections are free of debris such as metal shavings, rust, dirt, oil or water.
- 4 **Apply pipe thread sealant to the male pipe threads** of connection. **DO NOT** apply sealant or tape to flare ends of fittings or shut-off valve. Sealant and tape will prevent this connection from sealing properly.
- 5 If necessary, thread new manual shut-off valve onto gas supply pipe, wrench tighten.
- 6 Thread gas fitting to manual shut-off valve and other gas fitting onto appliance regulator.

- 7 Thread flare nuts of gas connector onto shut-off valve and gas fitting. Wrench tighten all connections.
- 8 **DO NOT** join this connector to another connector. Use this connector only if it is long enough to allow the appliance to be positioned at its farthest anticipated connected distance from the gas supply without stretching, twisting or bending smaller than a 1-1/2 in. internal diameter (size of a golf ball).
- 9 **DO NOT** make sharp bends with pipe fittings. Be careful when installing to avoid pinching or kinking the connector or allowing it to be trapped against sharp edges or corners.
- 10 **AVOID** contact with foreign objects or substances.
- 11 **⚠ WARNING!** Connector nuts **MUST NOT** be connected directly to pipe threads. This connector **MUST** be installed with adaptors provided. Failure to use gas flare fittings will result in an improper seal.
- 12 The final assembly must be checked for leakage. **⚠ DANGER!** **DO NOT** USE matches, candles, flames or other sources of ignition for leak testing connectors or fittings.
- 13 Turn manual shut-off valve on to allow gas to enter system.
- 14 **⚠ WARNING!** **DO NOT TURN ON APPLIANCE** until all connections have been leak tested!
- 15 **⚠ CAUTION!** Test for leaks only with leak-test solution. Leak-test solutions may cause corrosion—rinse with clean water after test:
 - Bubbles will indicate a leak. If a leak is detected, turn off gas supply before further tightening connections.
 - **Wait at least 10 minutes** to be certain that all vapors have dissipated. If leak test confirms connections do not leak gas, and you do not smell any gas, **THEN light pilot(s) and turn on appliance.**



Safety Precautions

- ⚠ WARNING:** 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.
- ⚠ WARNING!** Any hole, crack, or other damage to connector or its improper installation could lead to a potentially explosive release of gas! If the odor of gas is detected, turn off the gas to the appliance. Have a qualified professional check and repair the source of the leak before using.
- ⚠ DO NOT REUSE.** The connector and fittings are designed for use only on the original installation and are not to be reused for another appliance or at another location.
- ⚠ WARNING!** Replace connector if damaged or deteriorated. A damaged connector could result in a hazardous gas leak.
 - Electrical arcing from live wire contact or lightning near installation can damage the connector, resulting in a gas leak. Reduce risk of arc damage to connector by ensuring the appliance it services is grounded. For additional protection, use an NFPA 780 lightning protection system.



- If coating has been damaged, contact by corrosive chemicals (e.g. ammonia, acids), solder flux, cleaning solutions (e.g. dish soap, cleanser, bleach) and fungicides or insecticides can damage the connector. Water rinse the connector thoroughly if exposed to these chemicals.
- **DO NOT** install connector near a swimming pool or hot tub.
- **DO NOT** use this connector on appliance equipped with rollers or casters.
- **DO NOT** use this connector as a direct connection to an LP gas container mounted on or adjacent to a parked trailer or manufactured (mobile) home.
- **DO NOT** use this connector on appliances in moving vehicles (such as RVs, 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 unless it is the length and diameter specified by the radiant tube heater instructions, is installed in strict accordance with those instructions and is also installed with a BrassCraft® Safety+PLUS® excess flow valve.
- This connector is designed for occasional movement after installation. Repeated bending, flexing or vibration must be avoided. Normal operation of a clothes dryer, rooftop HVAC unit or similar appliance is acceptable.

