

# GAS CONNECTOR

DO NOT REMOVE WARNING LABEL

## INSTALLATION & USER INSTRUCTIONS DESIGN CERTIFIED FOR INDOOR & OUTDOOR USE MODEL NO. GC SERIES (1/4", 3/8", 1/2", 1" ID)

DESIGN COMPLIES WITH THE FOLLOWING STANDARDS:

ANSI Z21.21-2015 · CSA 6.10-2015, CONNECTORS  
FOR GAS APPLIANCES

ANSI Z21.75-2016 · CSA 6.27-2016, CONNECTORS FOR  
OUTDOOR GAS APPLIANCES AND  
MANUFACTURED HOMES

Connectors are for ease of installation and proper alignment of fixed on piping system appliances using natural or liquified petroleum (LP) gasses at pressures not to exceed 1/2 psi (3.5kPa). Improper use can result in an explosion and/or fire. Follow all installation instructions and warnings.

**WARNING:** Extra strength cleaning solutions or chemical substances must not come in contact with the connectors. These may include acids, solvents, solder fluxes with zinc chloride, ammonia, chlorinated chemicals and any liquid with chloride such as laundry bleach or dish detergent.

- **CAUTION:** Always turn off gas before disconnecting old connectors or installing new ones.
- Leak check final assembly. Use non-corrosive gas leak test solution where the sleeping bubbles will indicate a leak. Do not use dish washing detergent.
- **CAUTION:** Matches, candles, open flame or other sources of ignition should not be used for leak checking. Rinse all connections with water and dry, because leak test solution may cause corrosion.
- Connectors are designed for occasional movement after installation. Repeated bending, flexing, torsion or vibration must be avoided. Normal operation of clothes dryer, tube heaters or similar gas appliances does not constitute extreme vibration or movement.
- Gas connectors contact with foreign objects, such as electrical wiring, copper or iron pipe, paneling, wall studs and sheet metal must be avoided.
- **DO NOT REUSE:** The connectors and fittings are designed for use only on the original installation and not to be reused for another gas appliance or at another location.
- The gas outlet shall be in the same room as the appliance and the connector must not be concealed within or run through any wall, door or partition.
- The gas connector shall be of adequate length to reach from the gas supply to the appliance without stretching.
- Flare seats must be kept clean and free of sealing compounds, grease and oil.
- The connector shall not be used if kinked, twisted, or bent smaller than 1-1/2 inch internal diameter (i.e. approximately the diameter of a golf ball).
- A readily accessible manual gas shut-off valve must be installed between the gas supply pipe and the gas connector.
- Gas connector installation for a fixed appliance for indoor installation must be in accordance with the National Fuel Code, ANSI Z233.1/NPFA54 and/or CAN/CGA B149-latest edition installation codes.
- **FOR YOUR SAFETY:** If you smell gas, turn off the gas supply to the appliance and have a qualified/component individual correct the source of the leak.
- Gas connector use is intended for the gas connections between the gas supply and the gas inlet of a fixed appliance for indoor installations.
- Gas connector is not to be used for a connection to an LP gas cylinder mounted on or adjacent to a park trailer or manufactured mobile home or residence.
- Gas connector is not to be installed underground or used in contact with the ground. The connector must not be concealed within the run through any wall, floor, or partition.
- An appliance connector valve must be installed between the gas supply pipe and the gas connector.
- A new connector must be installed if the outdoor appliance is replaced.
- Gas connector must be replaced if it exposed to fire or its coating is damaged.
- The final assembly must be tested for leaks. **CAUTION:** Test for leaks only with leak test solution. Rinse with clean water after leak testing.  
**DO NOT USE OPEN FLAME TO TEST FOR GAS LEAKS.**
- Gas connector may be used to connect appliances inside Park Trailers (ANSI A119.5) and inside manufactured homes (ANSI 223.1) having a total appliance rating or section rating not in excess of the following.
- Connector not to be used for infrared radiant tube heaters.

**CAUTION:** CONNECTOR NUTS MUST NOT BE CONNECTED DIRECTLY TO PIPE THREADS. THIS CONNECTOR MUST BE INSTALLED WITH ADAPTERS PROVIDED.

| GAS<br>BTU<br>RATING | Straight Length Capacity-Btu Per Hr using: 0.64Sp Gr, 1000 Btu Per Cu Ft<br>(37.5MJ Per Cu Meter) Gasat 0.5 inch Water Column (124 Pa) Pressure Drop.<br>The capacity at 50 Pa (0.2 inch water column) pressure drop can be determined |         |         |         |         |         |         |         |
|----------------------|--|---------|---------|---------|---------|---------|---------|---------|
|                      | 12"  | 18"     | 24"     | 30"     | 36"     | 48"     | 60"     | 72"     |
| 1" OD (3/4" ID)      |  |         | 290,000 | 270,500 | 255,900 | 215,000 | 197,400 | 173,900 |
| 5/8" OD (1/2" ID)    | 180,000  | 164,200 | 150,000 | 136,000 | 125,000 | 106,000 | 93,200  | 86,000  |
| 1/2" OD (3/8" ID)    | 102,000  | 93,100  | 85,000  | 77,100  | 71,100  | 60,500  | 53,200  | 49,100  |
| 3/8" OD (1/4" ID)    | 48,000   | 43,600  | 40,000  | 36,400  | 33,400  | 28,300  | 24,900  | 23,100  |

