ECCO
EQUIPMENT CONTROLS COMPANY

800.554.1036
equipmentcontrols.com

GAS REGULATOR APPLICATION WORKSHEET

Sold To: Customer Name / Address	**Ship To:** Customer Name / Address
Contact Name	**Contact Name**
Contact Email	**Contact Email**
Street Address	**Street Address**
City/State/Zip	**City/State/Zip**
Contact Phone	**Contact Phone**

Item	Type Of Gas	Inlet Gas Pressure	Outlet Gas Pressure	Line Size	Capacity BTU/H or CF/H	Indoor or Outdoor	Vented or Vent Limited	Type of Equipment
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

WHY WE ASK THESE QUESTIONS

- **Type of Gas** – Specify whether the system uses Natural Gas (NG) or Liquid Propane (LP).
- **Inlet Pressure** – This is the pressure coming from the gas source (meter, utility company, or LP tank), not the pressure the appliance requires.
- **Outlet Pressure** – This is the pressure required by the appliance to operate correctly. Many contractors only provide the maximum operating pressure (typically 14" w.c.), but that just means the highest pressure the equipment can handle. Every appliance has both a minimum and maximum operating pressure listed on its data plate or in its specifications.
  - For Natural Gas, the typical requirement is 8" w.c.
  - For LP, it's usually 11" w.c.
  - If the exact requirement isn't known, you'll likely receive a quote for a regulator with a 7–11" w.c. or 6–14" w.c. range—suitable for the vast majority of applications.
- **Regulator Size –** Should match the downstream piping or the appliance's gas connection size.
- **Capacity –** Indicated as BTU, MBH, CFH, or SCFH. These all refer to the same measurement, just expressed differently:
  - BTU is the full number (e.g., 250,000 BTU)
  - MBH, CFH, and SCFH drop the last three digits (e.g., 250 MBH = 250,000 BTU)
  - We can quote based on any of these formats.
- **Indoor or Outdoor Installation** – This determines the venting accessory required:
  - Vent limiter for indoor use
  - Vent protector or cap for outdoor use
- **Vented or Vent-Limited** – For indoor installations, determine whether a vent-limited regulator is preferred.
- **Type of Equipment** – If not specified, the quote will default to a universal regulator suitable for various equipment types (e.g., generators, high-efficiency boilers). This can lead to a more expensive regulator than necessary.

Submit form to sales@equipmentcontrols.com

USEFUL CONVERSIONS AND DEFINITIONS

1 PSIG = 27.68 Inches Water Column (WC)
BTU = British Thermal Unit
1 MSCFH Natural Gas = 1,000 SCFH

1 Cubic Foot of Propane Gas ≃ 2,500 BTU's
1 Cubic Foot of Natural Gas ≃ 1,000 BTU's
1 Therm ≃ 100,000 BTU's

1 Unit of Natural Gas ≃ 10 Therms ≃ 1,000,000 BTU's
1 Boiler Horse Power ≃ 42,000 BTU Input
(Assumes 80% Efficiency)