

Gas Cylinder Warmers (GCW & HCW Series)

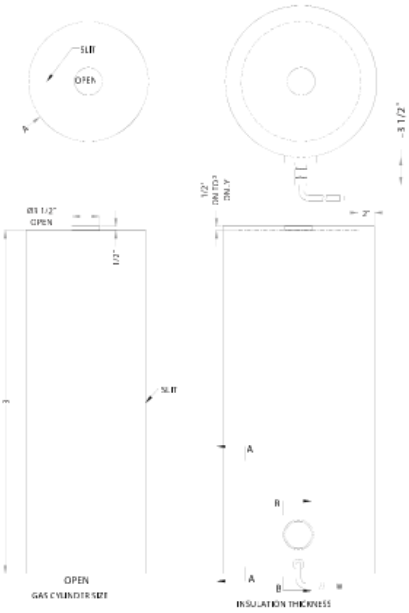
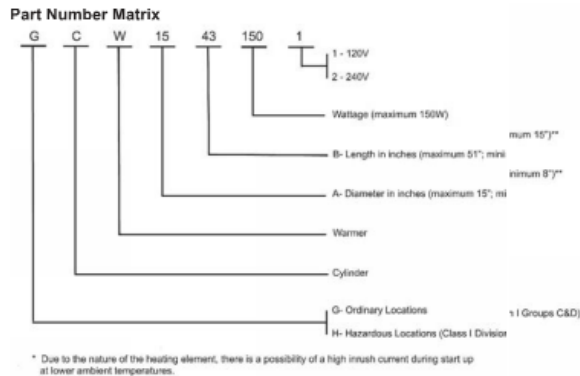
Due to condensation, gas is often wasted because it will remain in a liquid state when needed most. Cylinders are then not filled to a full level, wasting money on each fill-up. This can be alleviated by using our Gas Cylinder Warmer. The warmer creates a convection current and increases pressure inside; improving process control and reducing wasted gas that is condensed. Gases known to benefit from this process are SF₆, propane, nitrogen, oxygen, BCl₃, WF₆, and HF.

Specifications:

- Available for hazardous locations (Class I Division I Groups C & D)
- Built-in insulation
- Self-regulating grounded heating element.
- Moisture and oil resistant
- Ability to fit most gas cylinders
- Available in 120 and 240 VAC
- Up to 150 watts
- 150 F (66 C) maximum exposure temperature on heating surface
- Capable of being used outdoors



Class I Division I Groups C and D



How the Self-Regulation Heating Element Works

The semi-conductive core material contains a graphite network, which allows electricity to flow from one bus wire to the other. When the core is dense and colder, there are many paths for electricity to take through the graphite network, producing more heat.

Since the core material expands as it heats, the graphite network is elongated, disrupting some of the paths. More and more paths are disrupted as heating continues until the system reaches self-controlled thermal stability. When the core material cools it contracts, reconnecting some of the electrical paths in the graphite network, and more equivalent heat is produced.

This temperature response occurs independently at each point along the heater. If an externally produced high temperature occurs next to a low temperature on the cable, each sector of heating cable will adjust its own heat output in relation to its own local requirements.

Useful Accessories

- Bottom Cylinder Insulation Pad— Placed between cylinder and floor. Further insulates the cylinder from heatsinks such as a concrete floor.
- Valve Cover— Placed on top. Reduces amount of heat loss through the top of cylinder.

Part Number	Description
GCWTOP	Gage/ Valve Cover
GCW12B	Bottom Insulation Pad for 8" Cylinder
GCW15B	Bottom Insulation Pad for 9" Cylinder
GCW18B	Bottom Insulation Pad for 15" Cylinder