

HELPFUL HINTS: CONNECTING A GAS REGULATOR



ALWAYS COMPLETELY FOLLOW THE MANUFACTURE'S INSTRUCTIONS,
BUT HERE ARE A FEW TIPS TO GET YOU STARTED!

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GETTING STARTED

1 USE THE CORRECT REGULATOR FOR THE GAS BEING USED

CHECK TO ENSURE THE REGULATOR IS RATED FOR THE GAS BEING USED. You can do this by locating the CGA number on the cylinder valve and referencing it to the CGA selection chart to make sure it matches the gas source.



INSPECTING EQUIPMENT

2 INSPECT THE REGULATOR

Check the regulator for damage or contamination. Ensure all seals, if required, are undamaged and properly positioned. **EXAMINE THE REGULATOR INLET CONNECTION TO ENSURE IT IS CLEAN AND FREE OF ANY DEBRIS.** If there is evidence of physical damage, do not use it!

0 psi
NOTE:
Make sure gauges read zero



3 INSPECT THE CYLINDER VALVE

CHECK THE CYLINDER VALVE FOR EVIDENCE OF DAMAGE OR CONTAMINATION. If the cylinder valve has any grooves or burrs on the CGA sealing surface or threads, remove the cylinder from service and contact your gas supplier.

4 BLOW OUT CYLINDER VALVE

Also referred to as "cracking the valve." **SLOWLY OPEN THE CYLINDER VALVE AND THEN IMMEDIATELY CLOSE IT** to blow out any contamination that might be inside the cylinder valve. Do this outdoors or in a well-ventilated space. **DO NOT DO THIS WITH FLAMMABLE OR OTHER HAZARDOUS GASES.**



ATTACHING EQUIPMENT

5 ATTACH THE REGULATOR

With the cylinder valve closed and no gas flowing, **FASTEN THE REGULATOR TO THE CYLINDER VALVE.** Hand tighten the CGA nut and then use a smooth jawed wrench to secure it, but **DO NOT OVER TIGHTEN.**

NOTE:
DO NOT over tighten



NOTE:
DO NOT use plumbers tape or joint compound on CGA nuts

NOTE:
Regulator can be attached to cylinder at a slight angle for better readability

6 START THE FLOW OF GAS

TURN THE REGULATOR ADJUSTING KNOB COUNTER-CLOCKWISE COMPLETELY to close the valve. This will prevent gas from flowing through the regulator when the cylinder valve is turned on.

SLOWLY OPEN THE CYLINDER VALVE. The high pressure gauge on the regulator should show that gas is coming into the regulator.

NOTE:
When opening the cylinder valve, stand to the side **OPPOSITE** the regulator so the cylinder valve is between you and the regulator

NOTE:
For **PROPANE, ACETYLENE** and similar gases, only open cylinder valve $\frac{1}{2}$ to 1 full turn so the valve can be closed quickly in the event of a leak

NOTE:
For high pressure gases such as **OXYGEN, NITROGEN** and **CO₂**, fully open the cylinder valve to prevent the valve from leaking through the stem packing

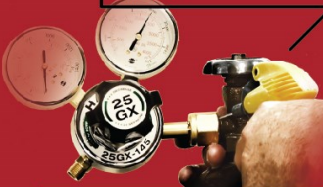


CHECKING FOR LEAKS

7 CHECK THE INLET CONNECTIONS FOR LEAKS

Use an approved leak detection solution. Retighten the inlet regulator connection as necessary to eliminate the leak.

NOTE:
When gas is not required for extended periods, follow proper shutoff and bleed down procedures. **DO NOT LEAVE THE SYSTEM PRESSURIZED.**



8 CONNECT THE HOSE

Attach the hose or other equipment to the outlet connection of the regulator and tighten with a wrench.

Turn the regulator knob or screw clockwise to set the desired pressure on the regulator.



9 CHECK THE OUTLET CONNECTION FOR LEAKS

Use an approved leak detection solution. Re-tighten the regulator outlet connection as necessary to ensure no gas is leaking through the stem packing. If the leak persists, close the cylinder valve and have equipment serviced.



While connecting a gas regulator is a relatively simple process, it is critical to **TAKE PRECAUTIONS THAT ENSURE A GAS-TIGHT CONNECTION. CHECK FOR LEAKS DAILY AND ALWAYS CLOSELY MONITOR GAUGES** to obtain optimal safety and performance from your Harris gas regulator.