



**Great Lakes Chemical Corporation**

# **FUMIGATION FAX**

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## **Facts About Methyl Bromide Cylinder Valves**

- ? Cylinder valves are made of brass and have a CGA 300, 0.825"-14 NGO-RH-EXT outlet.
- ? The fittings (nuts, ferrules, and nitrogen stem) should be made of brass.
- ? Brass ferrules/nipples should be conical, NOT flat. The conical fitting will match the inside cone shape of the outlet. Flat interfaces will not form tight connections and may leak methyl bromide.
- ? The CGA 300 brass fittings (also know as CO<sub>2</sub> nuts) are 0.830 inches, inside thread diameter. The CO<sub>2</sub> nuts and nitrogen stems can be purchased at compressed gas suppliers, refrigerated gas suppliers, some hardware stores or welding supply stores.
- ? Tubing should be made of polyethylene or copper or an equivalent methyl bromide compatible material. DO NOT use polypropylene or rubber tubing.
- ? Polyethylene tubing, CO<sub>2</sub> nuts, and nitrogen stems can also be purchased from Industrial Fumigants Company (913-782-7600), Reddick Fumigants (252-792-1613), and Pest Fog Sales (361-884-8214).
- ? Assembly of the fittings and tubing onto the valve is as follows: place the nitrogen stem with conical nipple into the CGA 300 outlet. Place the CO<sub>2</sub> nut over the nitrogen stem and hand-tighten the nut to the valve outlet. Attach the polyethylene tubing to the threaded outlet of the nitrogen stem using the appropriate brass nut and ferrule.
- ? Brass fittings are designed to form tight connections/seals with the brass valve outlet threads. Brass is a soft metal and a good seal will be achieved without tape, pipe compound, or excessive tightening of the CO<sub>2</sub> nut. The metal/metal seal is sufficient for a tight seal and containment of methyl bromide.
- ? DO NOT use Teflon® tape or pipe dope on the cylinder outlet threads. The tape and dope may get into the outlet and form a plug, which may prevent the cylinder from dispensing product.
- ? DO NOT over-tighten connection fittings. Over-tightening may cause leaks and damage the brass outlet.
  
- ? DO NOT over-tighten the safety cap on the outlet valve. Over-tightening the safety cap may push the safety cap gasket into the valve stem, causing a plug. The plug may then prevent the cylinder from dispensing product in future connections.
- ? Make sure the safety cap gasket is removed from the cylinder outlet before installing the fittings.

**ALWAYS READ AND FOLLOW LABEL DIRECTIONS**



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