



Caution: Nitrous Oxide is a high pressure cryogenic gas, improper handling or careless transfer procedures could result in serious injury or death. If you do not completely understand these instructions or have a question contact a professional for help.

Warning

- Nitrous oxide is a high pressure cryogenic gas, contact with the skin will cause severe freeze burns!
- Always use eye and skin protection when handling nitrous oxide!
- Liquefied gas accelerates combustion, keep oil and grease away!
- CAUTION: NEVER INTRODUCE OIL OR ANY LUBRICANT WHATSOEVER INTO THE NITROUS OR COMPRESSED AIR INLETS OR THE NITROUS OUTLET OF THIS PUMP! A VIOLENT AUTOIGNITION EXPLOSION WILL RESULT!
- Do not over fill any nitrous vessel beyond its labeled capacity, catastrophic bottle failure could result!
- Never heat any nitrous container with an open flame!
- Never breathe nitrous oxide, it is a non-life supporting gas and serious injury or death could result!
- A nitrous bottle restraint, or containment device, should always be used when bottle filling is in progress.
- All nitrous pressure vessels use a 3000PSI emergency pressure relief disc; do not exceed this pressure when refilling or pressure disc failure will result in rapid high pressure nitrous discharge and total bottle charge loss!
- Always attach a nitrous pipe-away vent hose; this should exhaust the emergency pressure relief port to safe area!
- Do not refill any nitrous bottle that does not have a current Hydrostatic Test Date stamped in the bottle crown. All Aluminum bottles must be tested every five years, Composite bottles have to be tested every 3 years..

1. Mounting the pump:

The nitrous pump needs to be operated with the pump mounted in a rigid fashion (usually to a wall or table).

2. Connecting the air supply lines:

All air lines must have water traps installed before the nitrous pump!! Use only filtered regulated air! Refer to the diagram on back and connect the air supply line to the air inlet port on the pump body. The pump will deliver its maximum performance at 100-150 psi and 15 cfm of air.

3. Determining the type of supply bottle:

Verify if your nitrous supply bottle has an internal siphon or dip tube. The bottle will be marked by either the word "SIPHON", or "DIP TUBE" painted on the side of the bottle or a metal tag will be visible on the neck of the bottle with the word "SIPHON", or "DIP TUBE" on it. If the bottle is equipped with an internal siphon tube, the bottle must be used in the "upright" position. If it does NOT have an internal siphon, then the bottle must be inverted using the optional bottle stand (Part # 15930).

4. Connecting the Bottle:

Connect the main supply bottle to the inlet side of the pump (the end with the filter attached) using the 6AN supply line (only) included in your pump station. Using the remaining 6AN line, connect the outlet side of the pump to the bottle being filled.

5. **Filling the Nitrous Bottle:** Place the bottle to be filled on a suitable scale (any accurate scale will work), note the total bottle weight. Using the information supplied on the bottle label, calculate the amount of nitrous to be transferred. Note: (It is not necessary to cool or chill the bottle being filled). After verifying that all the high pressure hoses are properly connected open the valve on the main supply bottle and check for leaks. You may hear nitrous as it enters the line and fills the pump, this is normal. Simply open the bottle that is being refilled. Push and hold the activation button to start pumping. Observe the weight of the bottle as it fills with Nitrous. **Caution: Do not over fill any nitrous bottle, a dangerous over pressure condition that could cause serious bodily injury or death could result.** When the proper weight is achieved, as indicated by the bottle label, turn pump off by turning the air supply valve 90 degrees, then turn off the valve on the supply line and the bottle valve. **Caution: Do not place your hand over any N2O discharge port, contact with nitrous oxide will result in severe freeze burns.** Carefully disconnect the bottle being filled. Avoid being sprayed by the gaseous nitrous. Any contact with the skin will result in freeze burns.

