



## CO<sub>2</sub> Transfer Pump into PAINTBALL PROPELLANT BOTTLES

### 1. PURPOSE.

The pump enables the user to completely fill his bottle to the proper weight regardless of changes in pressures and/or temperatures.

### 2. INSTALLATION AND OPERATION.

2.1 First: Study the 20 Dec 2001 *Users Guide* included with all *Deluxe Mini CO<sub>2</sub> Fill Station* valve and hose assemblies.

This guide concisely describes bottle filling steps for cascading from the bulk CO<sub>2</sub> supply cylinder directly into the bottle.

2.2 Boost Pump: Note from the above photo that the valve and hose assembly now attaches to the pump *output port* (instead of the bulk CO<sub>2</sub> supply cylinder).

2.2.1 The user then connects the pump *inlet port* (3/8" NPT) back to the supply cylinder using a connecting hose length to suit his setup; and the CGA 320 adapter.

#### 2.2.1.1 Connecting Hose Requirements:

- Inside Diameter: 1/4" minimum.
- Working Pressure: 2000 PSI minimum.
- Core Material: Rated for Liquid CO<sub>2</sub> at ambient temp.

2.3 Power to the Pump: Connect the 1/4" NPT air drive filter and water trap to any compressed air source, 40 PSI minimum. Use 1/4" I.D. (minimum) hose or pipe.

*Pump Start/Stop and Speed* is then controlled with the 1/4 turn ball valve provided.

### 2.4 Operation:

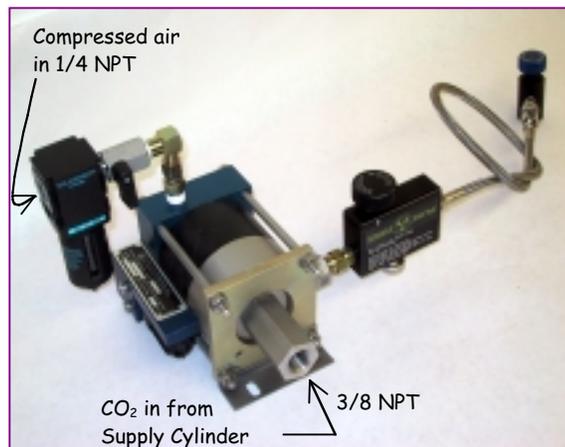
2.4.1 Operate the supply cylinder valve and the bottle valve while watching bottle weight on the scale per operation 2 of the users guide.

**Note:** CO<sub>2</sub> will flow freely through the pump from the supply cylinder to the bottle without turning the pump on.

2.4.2 When pressures equalize from supply cylinder to bottle, flow will stop. Bottle may have received sufficient weight. If so, do not operate pump.

2.4.3 If bottle does not come up to weight after equalizing, slowly cycle pump with 1/4 turn air drive valve while watching weight on scale.

2.4.4 Stop pump when rated weight capacity is reached and strictly follow the directions outlined in operation 2 of the users guide.



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