

# FLOJET

## Model N5000 CO<sub>2</sub> Operated Bag-in-Box Pump

### PRODUCT DATA

**Pump Design** .....Positive Displacement, Double Diaphragm  
**Power Source** .....CO<sub>2</sub> Gas, Nitrogen or Compressed Filtered Air  
**Materials of Construction (wetted parts)** .....Celcon M90, Santoprene®, EPDM, 302 or 304 Stainless Steel Spring  
**Temperature Limits** .....34° - 120°F (1.1° - 49°C)  
**Weight** .....1.22 lbs. (0.55 kg.)  
**Dimensions** .....5-3/8" H x 6-7/32" W x 2-7/16" D (135.7 mm x 157.9 mm x 61.9 mm)  
**Displacement** .....2.5 oz. per cycle  
**Self Priming** .....Up to 10 ft. (3.05 m)  
**Operating Pressure** .....20 psi (1.4 bar) min. / 80 psi (5.5 bar) max.  
**Liquid Inlet Pressure** .....10 psi (0.7 bar) max.  
**Flow Rate** .....4.0 oz. (118.3 ml)/sec. - Open Flow  
**Approvals** .....NSF listed, SK & CE  
**Auto Shutoff Valve** ....Automatically shuts off pump when product supply is depleted and restarts when connected to new supply.

### AVAILABLE PORT FITTINGS

#### Gas Inlet:

- 1/4" (6.3mm) Barb, plastic, straight
- 1/4" (6.3mm) Barb, brass w/CO<sub>2</sub> shut-off - straight, tee or elbow.
- John Guest for 1/4" O.D. tubing, plastic or brass w/CO<sub>2</sub> shut-off

#### Gas Outlet:

- 1/4" (6.3mm) Barb, plastic, straight

#### Product Inlet & Outlet:

- 1/4" (6.3mm) Barb, stainless steel, straight or elbow
- 3/8" (9.5mm) Barb, plastic, straight
- 3/8" (9.5mm) Barb, stainless steel, straight or elbow
- 1/2" (12.7mm) Barb, stainless steel, straight
- John Guest for 1/4" or 3/8" O.D. tubing, plastic

### INSTALLATION

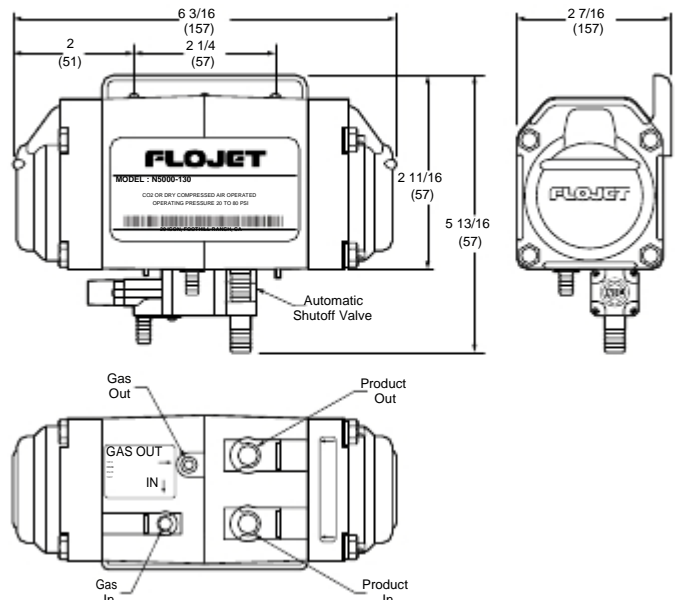
#### MOUNTING

Pump should be located within 10 ft. (3.0 m) of bag-in-box and must be mounted with ports facing down. May be mounted above or below bag. Fasten mounting brackets securely to rack or mounting board. The pump is sanitized at factory and needs no further sanitizing before connection to the product supply.

#### HOSE CONNECTIONS

Product "IN", use 3/8" (7.9 mm) I.D. x 1/8" (3.1 mm) wall vinyl or Tygon hose, food grade or equivalent. Secure with OETIKER 17.0 706R clamp or worm gear clamp with 360° uniform clamping band. Avoid sharp bends that could restrict flow or cause hose to collapse under vacuum. Connect to bag-in-box connector (or transfer valve if used) and clamp both ends.

### DIMENSIONS Inches (mm)



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Product "OUT", use reinforced 1/2" (12.7 mm), 3/8" (9.5 mm) or 1/4" (6.3 mm) I.D. hose for discharge. Connect to product "OUT" port and dispensing head product (syrup) connection and clamp both ends securely.

Gas "IN", make sure CO<sub>2</sub> regulator is set at zero. Use reinforced 1/4" (6.3 mm) hose, connect gas "IN" to gas supply fitting on regulator. If pumps are installed in an enclosed area such as a basement, it is recommended to connect a hose to the gas discharge port and vent CO<sub>2</sub> to atmosphere.

#### OPERATION

To start operation, regulate gas pressure to desired setting. For most installations, 65 PSI (4.5 BAR) will be adequate. Open dispensing valve to purge air from system. Pump will now operate automatically by starting and stopping on demand, as beverages are served and maintaining constant pressure at the dispensing valve.

Product flow and pressure can be adjusted by increasing or decreasing gas pressure to accommodate varying product viscosities, length of lines or other installation conditions. **CAUTION: Do not exceed 80 PSI (5.6 BAR) gas pressure.**

The Flojet Model N5000 has an auto shutoff valve which stops the pump by shutting off the gas supply when the bag is empty and high vacuum builds up in the inlet line. The control will automatically restart the pump when a new bag is connected and vacuum in the inlet line has returned to normal.