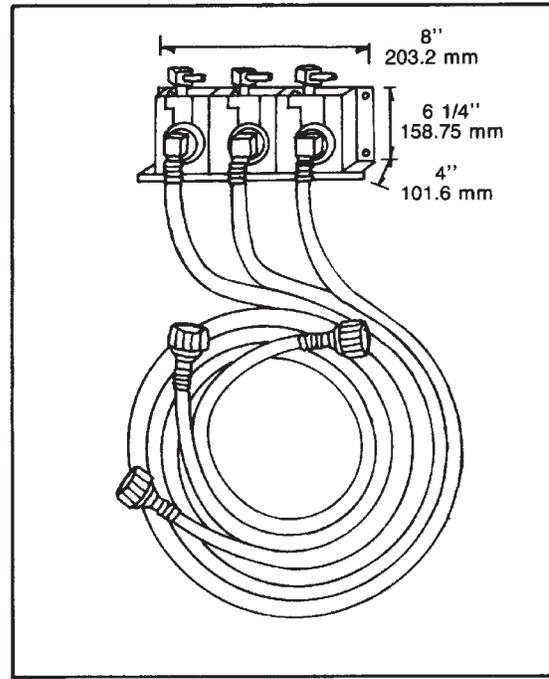
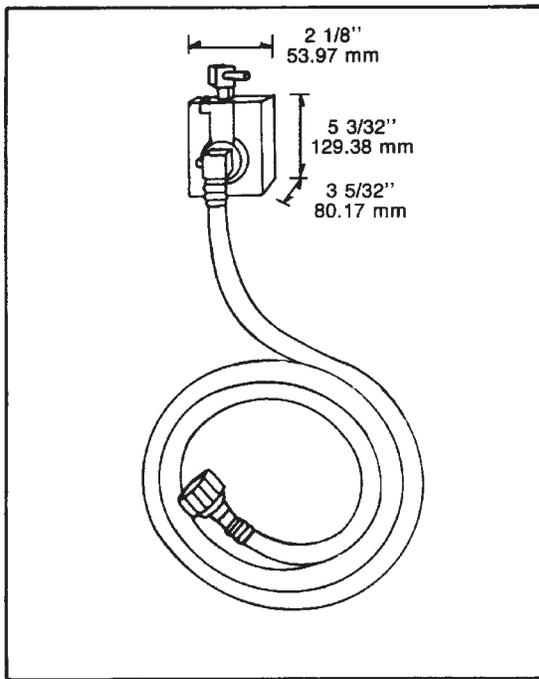


The following illustrates how to install and operate the Series 650 Mini Pumps.

Specifications

Pump Design	Pneumatically driven, spring return, single diaphragm.
Flow Rate	One-half (0.5) oz/sec (14.8 ml) or less for one dispensing valve only.
Gas Supply Pressure	60 to 75 PSIG (0.414 to 0.517 MPa)
Ports	CO ₂ Inlet 1/4 inch Barb, Syrup Outlet; 1/4 inch Barb, Syrup Outlet 3/8 inch Barb.
Automatic Shut Off	Integral mechanism automatically shuts off pump when product supply is depleted. Resumes when connected to new supply.



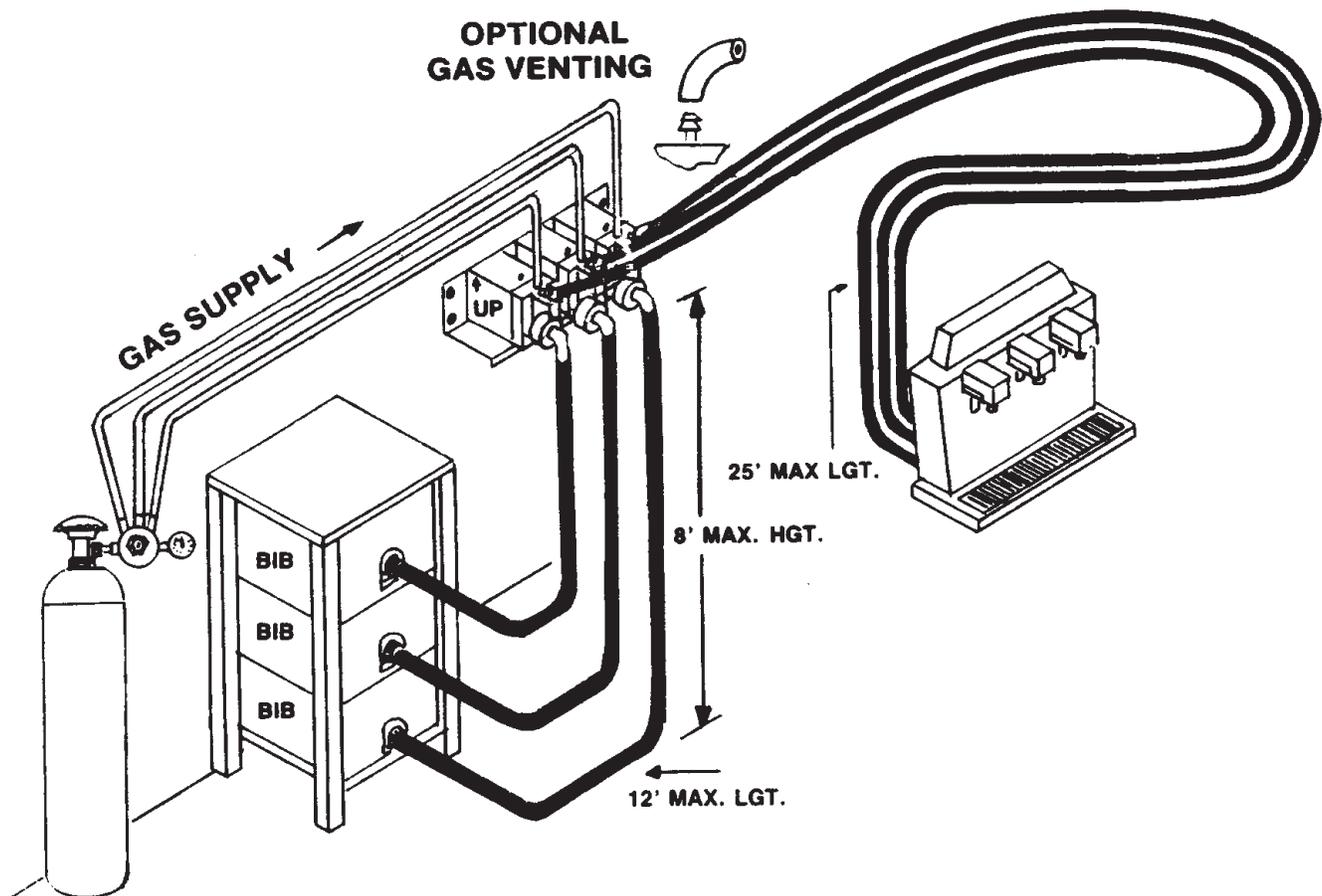
Installation - PN 82-0251

1. Secure the mount bracket assembly (PN 82-0308) securely to BIB rack or on a wall, a maximum of eight (8) feet. (2.4 m) above BIB rack.

NOTE

Total length of line from pump to BIB package should not exceed 12 feet (3.7 m); total length of line from pump to dispenser should not exceed 25 feet (7.6 m).

2. Product "IN", use 3/8 inch (9.5 mm) I.D. hose. Product "OUT", use 1/4 inch (6.4 mm) or 3/8 inch (9.5 mm) I.D. reinforced hose.
3. Gas "inlet", use 1/4 inch (6.4 mm) I.D. reinforced hose.
4. Gas "VENT" (for CO₂ operation in unventilated areas), use 3/16 inch (4.8 mm) I.D. hose and connect to barb protruding from pump cover. **AVOID** sharp bends in all hose installations, this could restrict flow.



Operation

1. To start operation, regulate gas pressure to desired setting, between 60 and 75 PSIG (0.414 to 0.517 MPa).
2. Increase pressure 3 PSIG (0.021 MPa) per ten (10) feet (3 m) of distance between pump and dispensing valve.

NOTE

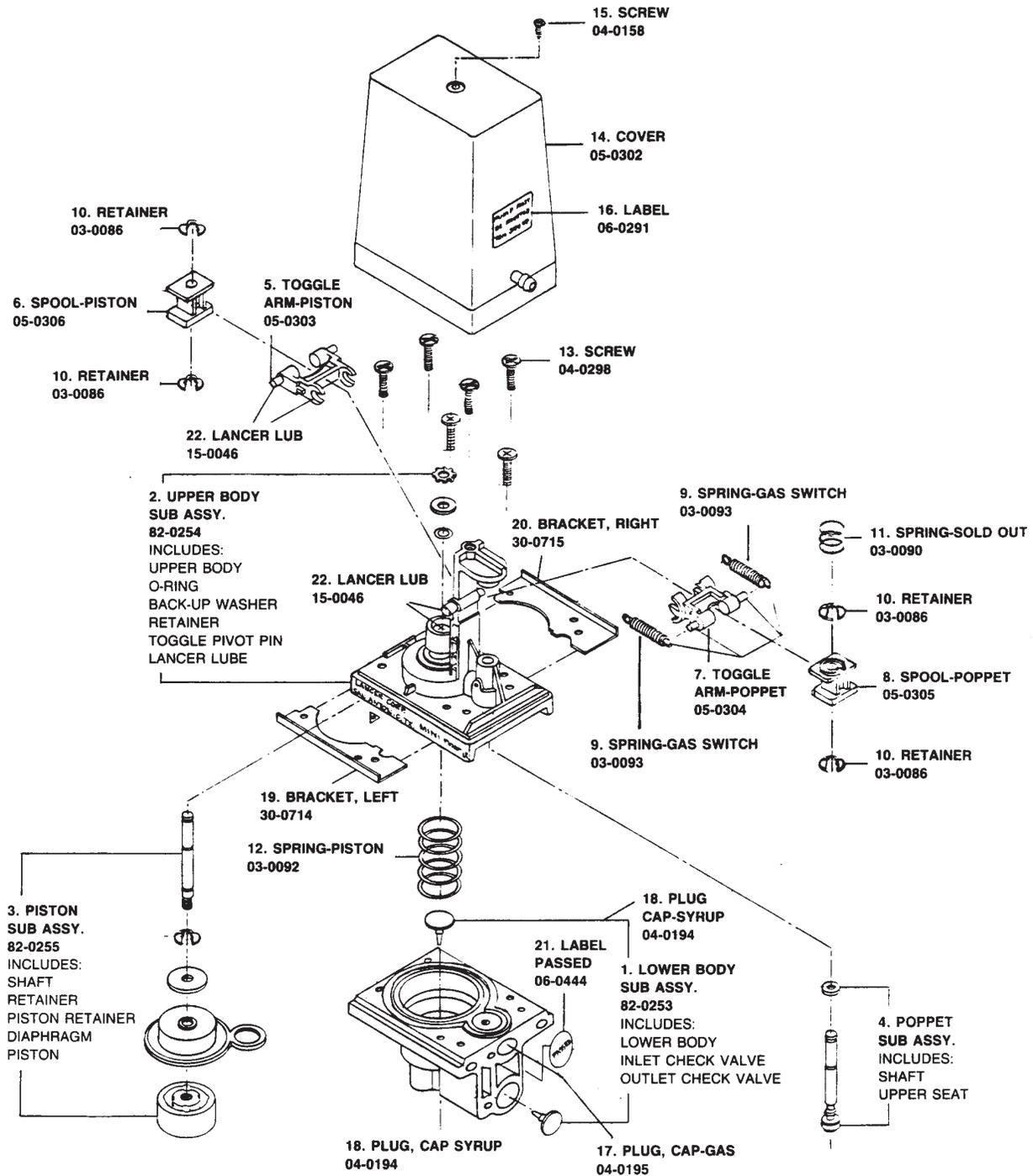
A pump located 20 feet (6 m) from the dispensing valve would require approximately 66 PSIG (0.455 MPa) minimum.

3. Open dispensing valve to activate pump and continue until air is purged from system.
4. Pump will now operate automatically, starting and stopping on demand, as beverages are served.
5. Product flow and pressure can be adjusted by increasing or decreasing gas pressure.
6. The automatic vacuum shut-off will stop the pump when the product supply is depleted and a vacuum of 17 inches Hg is achieved. Pump will restart when connected to a new supply.

Troubleshooting

Condition	Check:
Pump does not operate when dispensing valve is opened.	<ol style="list-style-type: none"> 1. Out of CO2 gas? 2. Out of syrup? 3. Is gas turned on? 4. Is syrup or gas line kinked?
Pump operates but no flow.	Is there a leak in product inlet or outlet line?
Pump continues to operate when bag is empty.	Is there a leak in suction line?
Pump fails to restart after bag replacement.	<ol style="list-style-type: none"> 1. Is bag connector on tight? 2. Is bag valve or connector stopped up? 3. Is line kinked?
Pump fails to stop when dispensing valve is closed.	<ol style="list-style-type: none"> 1. For leak in discharge line. 2. For empty bag. 3. For air leak on inlet line or bag connector

Exploded View



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