

Installation and Operating Instructions

Cole-Parmer® Venturi-Style Vacuum Pump

with air saver technology

Model 78165-71



WARNINGS

- Always wear adequate ear and eye protection.
- Not intended for corrosive gases.
Always check compatibility of wetted materials.
- Insure that pump unit is always secured firmly before applying compressed air to any port.

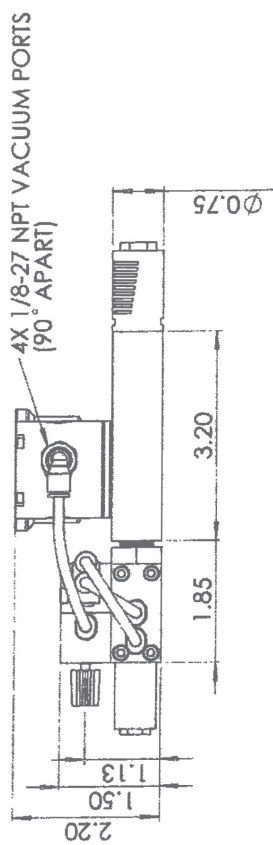
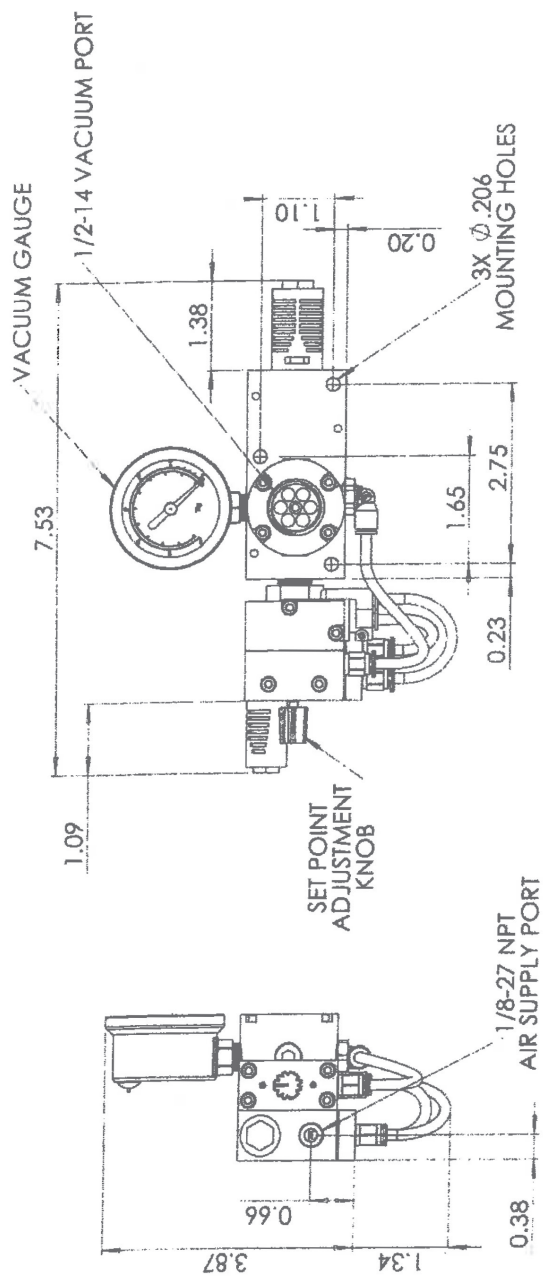
Failure to follow these warnings could result in serious injury.

Technical Data

Medium	80 psi
Operating noise level	68 dBA
Material	Anodized aluminum, Buna-N seals, felt, chrome plated brass, stainless Steel, EPDM, PTFE, polyethylene, and 18.8 steel. .

Operating Instructions

1. Shut off air supply to tubing (supply line).
2. Place 1/4" NPT fitting in the vacuum port. Connect the vacuum line to the fitting and out to the vessel or vacuum cup you plan to draw the vacuum from.
3. Place a 1/4" NPT fitting in the air supply port located next to the adjustment knob. Connect the fitting to your compressed air supply line.
4. Connect a vacuum gauge in the vacuum line between the vacuum check valve and the vessel or the vacuum cup. There is also 10-32 port on the side of the vacuum check valve to make a connection for a vacuum gauge.
5. Secure the pump.
6. Turn the compressed air supply on.
7. The switch is set below 0"Hg and, therefore, the pump will not turn on when compressed air is supplied to the pump.
8. Rotate the adjustment knob clockwise to increase the set point. For each full rotation the set point increases approximately 10"Hg.
9. Creep up on the set point by making an adjustment and then allowing the pump to reach the set point and shut off. Rotate the adjustment knob more and allow the pump to reach the set point. Continue until the desired set point vacuum level is obtained.



Operation

The set point is the vacuum level the pump will achieve before the pump shuts off. The set point may be changed using the adjustment knob on the switch. For each clockwise revolution of the knob the vacuum set point will increase 10"Hg

The hysteresis is the difference in vacuum level between the setpoint and when the pump is reenergized after the system drops in vacuum due to a leak in the system. It is fixed at 3"Hg.

The leak rate is dependent upon the system. Vacuum leakage occurs at fitting connections, and at sealing surfaces where a vacuum cup or fixture contacts the part being held or lifted.

All switches are shipped with the setpoint set below 0"Hg.



For Product Information

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