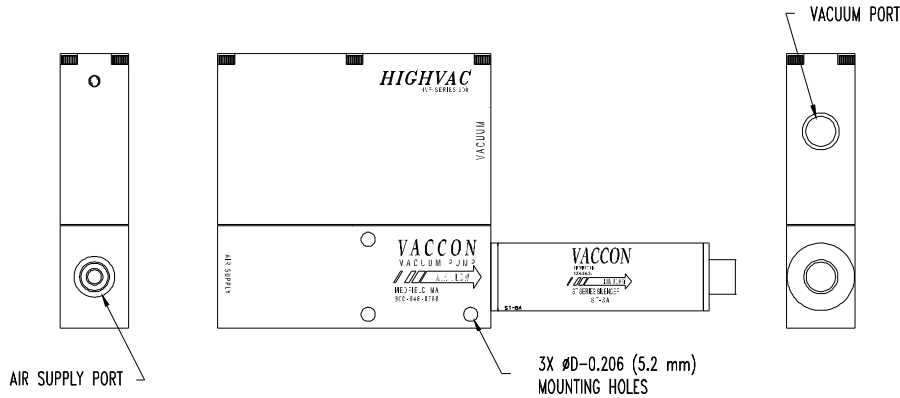


## Operating Instructions for HVP-100, 200, 300 Series Vacuum Pumps



The Highvac Series air-powered venturi vacuum pumps achieve a vacuum level of 29.5" Hg.

How it works:

Vacuum is produced by forcing compressed air through a limiting orifice (nozzle). As the air exits the orifice it expands, increasing in velocity to supersonic speed before entering the venturi section (diffuser). This creates a vacuum at the vacuum inlet port located between the nozzle and diffuser.

### Installation

Step 1: Mount pump. HVP-100 pump has two mounting holes that accept 4-40 (M3) screws. HVP-200 and HVP-300 pumps have three mounting holes that accept 10-32 (M5) screws (screws not supplied). Pump works in any orientation.

Step 2: Attach air line to air supply port. Attach vacuum line to vacuum port. See chart below for minimum recommended sizes.

Step 3: Turn on compressed air and regulate to specified pressure (80 PSI standard, -60 models 60 PSI. Set regulator while pump is operating). HVP will generate vacuum.

Model No.	Supply Port Threads	Recommended Air Supply Line	Vacuum Port Threads	Recommended Vacuum Line
HVP-100 Series	1/4"NPT	3/8"	1/8"NPT	3/8"
HVP-200 Series	1/4"NPT	3/8"	1/4"NPT	3/8"
HVP-300 Series	3/8"NPT	1/2"	1/4"NPT	1/2"

Tubing size based on 0.062 wall polyethylene and polyurethane tubing.

Note: Vaccon discourages the use of quick disconnect fittings on all connections.