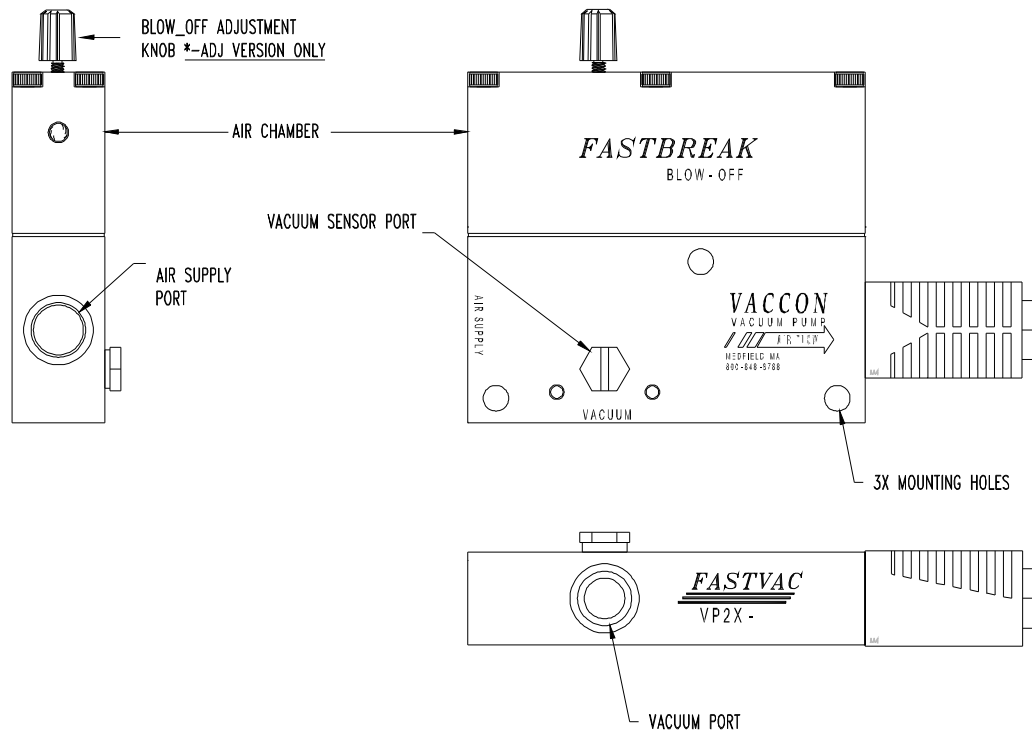


## Operational Instructions for VP0X, 1X, 2X and 8X (ADJ) Fastbreak Blow Off Vacuum Pumps



Silencer option on pump may vary.

### How it works:

Utilizing quick exhaust valve technology, Fastbreak pumps store compressed air in a chamber while simultaneously generating vacuum. The quick exhaust diaphragm seals the chamber of compressed air from the suction line. When the part is to be released, the solenoid valve\* is de-energized. The vacuum stops and the rapid drop in pressure shifts the quick exhaust diaphragm into the up position allowing the stored compressed air to vent into the vacuum line.

Fastbreak pumps provide both suction and blow-off with a single supply of compressed air controlled by a 3-way solenoid valve (not supplied\*).

\*Note: The 3-way solenoid valve controlling the compressed air to the vacuum pump must vent to atmosphere for the quick blow-off function to actuate properly.

**Installation:**

Step 1: Mount pump. The VP0X and VP1X have two mounting holes that accept 4-40 (M3) screws. VP2X and VP8X pumps have three mounting holes that accept 10-32 (M5) screws (screws not supplied). Pump works in any orientation.

Step 2: Attach airline to air supply port. Attach vacuum line to vacuum port (when not directly attaching cup 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). Pump will generate vacuum.

Step 4: De-energize the solenoid valve when the part is to be released. The vacuum stops and the rapid drop in pressure shifts the internal quick exhaust diaphragm allowing the stored compressed air to vent into the vacuum line.

For –ADJ adjustable models:

Step 5: For models with –ADJ (adjustable blow-off) option, turn top adjusting knob clockwise to reduce blow-off intensity, counter-clockwise to increase blow-off intensity.

<b>Model No.</b>	<b>Supply Port Threads</b>	<b>Recommended Air Supply Line</b>	<b>Vacuum Port Threads</b>	<b>Recommended Vacuum Line</b>
VP0X-60H-(ADJ)	10-32 Female	1/4"	10-32 Female	1/8"
VP1X-(60,90)(L,M,H)-(ADJ)	1/4"NPT	1/4"	1/8"NPT	1/4"
VP1X-(100,150)(L,M,H)-(ADJ)	1/4"NPT	3/8"	1/8"NPT	3/8"
VP2X-(60,90)(L,M,H)-(ADJ)	1/4"NPT	1/4"	1/4"NPT	1/4"
VP2X-(100,150)(L,M,H)-(ADJ)	1/4"NPT	3/8"	1/4"NPT	3/8"
VP8X-200(L,M,H)-(ADJ)	1/4"NPT	3/8"	3/8"NPT	3/8"

Tubing size based on 0.062 wall polyethylene and polyurethane tubing.

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