PE1 Eductor Performance Specifications

Performance

The testing monitors the inflow rate, line pressure and pick-up vacuum for proper performance. Typical results of these tests are shown in Figures 1 and 2. Due to the nature of venturi phenomena, a minimum flow rate of 12 GPM must be provided to ensure reliable vacuum potential.

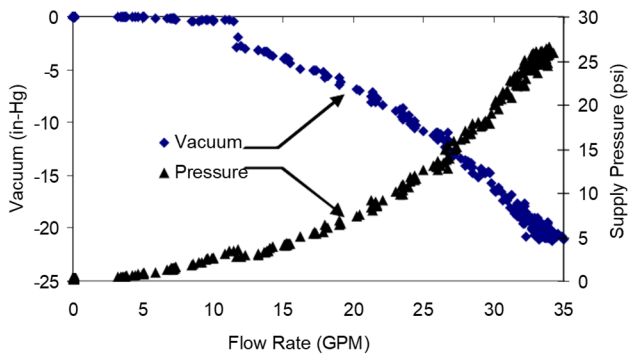

Figure 1: PE1 Eductor: flow rate vs. pressure and vacuum.

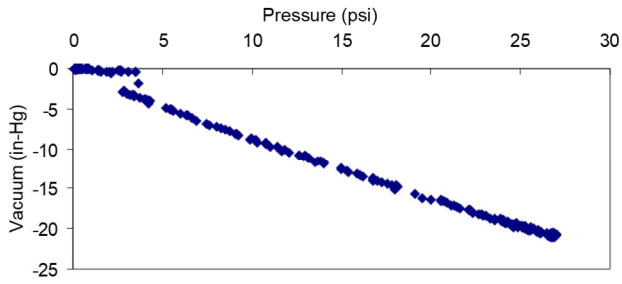

Figure 2: PE1 Eductor: vacuum vs. pressure

Specifications

Flow rate	US: 12-40 gpm Metric: 45-150 lpm
Maximum pressure	US: 45 psi Metric: 3 bars See *Maximum pressure note*
Mix Ratio (outflow concentration)	
Hopper/funnel fed	US: 1.0 – 2.0 lbs/gal Metric: 0.6 – 1.2 kg/liter See *Outflow concentration note*
Vacuum pickup (vinyl tube)	US: 0.1 – 0.5 lbs/gal Metric: 0.06 – 0.3 kg/liter

Maximum pressure note

Hootonanny eductors are pressed together and are not easily disassembled. Units are tested to above 90psi at room temperature, but are not intended for operating pressures above 45 psi. For high pressure supply lines pressure regulation is suggested.

Outflow concentration note

Outflow concentration can vary significantly between applications. Powder type, particle size and moisture content are the most common variables. The recommended practice is to perform trial mixes before commencing large-scale mixing operations.

The following factors affect the mixing effectiveness (mix ratio and ease of dispersion:

- Water supply flow rate
- Powder state of compaction
- Type of powder
- Operator
- Powder introduction method (gravity, funnel fed or vacuum pickup)

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