Compressor Rod Packing Vent Flow Indicator

- Development
- Design Concept
- Flow Formulas
- Indicating Face Changes
- Economic Formula
### Differential Pressure Flow Meters

- **V** Velocity
- **Q** Volumetric Flow
- **W** Mass Flow
- **k** Discharge Coefficient
- **D** Density
- **A** Area (square inch)
- **h** Pressure Differential

**Equation:**

\[ V = k \left( \frac{h}{D} \right)^{0.5} \]

or

\[ Q = kA \left( \frac{h}{D} \right)^{0.5} \]

or

\[ W = kA \left( \frac{h}{D} \right)^{0.5} \]

**Diagram:**

- Vena Contracta
- Laminar
- Turbulent
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Economic Model

MSCFD x Cost of Gas (Per MCF) x Number of Days = Cost of Gas Vented
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