

Equations in SEMI F32

SEMI F32 contains two equations (given below for US units) for calculating pressure drop across valves. One equation is an iterative solution based on ISA S75.01 equations and uses C_v and Y (expansion factor which is based on x and x_T). The other equation is a direct solution but only a close approximation and uses C_v and x_T in the calculation. It is worth noting that the units for flow rate differ from the direct solution to the iterative one when using US units. When performing pressure drop calculations across a valve using the equations in SEMI F32, the value of x must never exceed x_T and the value of Y must be greater than 0.67. Typically, pressure drop across valves is less than 5% of the inlet pressure (x is less than 0.05) and either equation in SEMI F32 should yield satisfactory results.

Direct solution:

$$\Delta P_{\text{valve}} = \frac{P_{\text{inlet}} \times x_T}{1.125} \left[1 - \sqrt{1 - \frac{1.125}{x_T} \left(\frac{S_g \times Q_{\text{scfm}}}{16.04 \times C_v \times P_{\text{inlet}}} \sqrt{\frac{T_{\text{sc}}}{S_g}} \right)^2} \right] \quad \text{eq. 1}$$

Iterative solution:

$$\Delta P_{\text{valve}} = \left(\frac{Q_{\text{scfm}}}{1360 + C_v + Y + R_{\text{line}}} \right)^2 \times R_{\text{valve}} + R_{\text{line}} + R_{\text{fit}} \quad \text{eq. 2}$$

$$\text{Then } Y = 1 + \frac{x}{3x + R_{\text{valve}} + R_{\text{line}}} \quad \text{eq. 3a}$$

$$x = \frac{\Delta P_{\text{valve}}}{P_{\text{inlet}}} \quad \text{eq. 3b}$$

$$R_{\text{valve}} = \frac{K}{1.25} \quad \text{eq. 3c}$$

$$\text{Therefore } \Delta P_{\text{valve}} = \left(\frac{Q_{\text{scfm}}}{1360 + C_v + R_{\text{line}} + \left(1 + \frac{1.125}{3x + R_{\text{valve}} + R_{\text{line}}} \times \frac{\Delta P_{\text{valve}}}{P_{\text{inlet}}} \right)} \right)^2 \times R_{\text{valve}} + R_{\text{line}} + R_{\text{fit}} \quad \text{eq. 4}$$

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