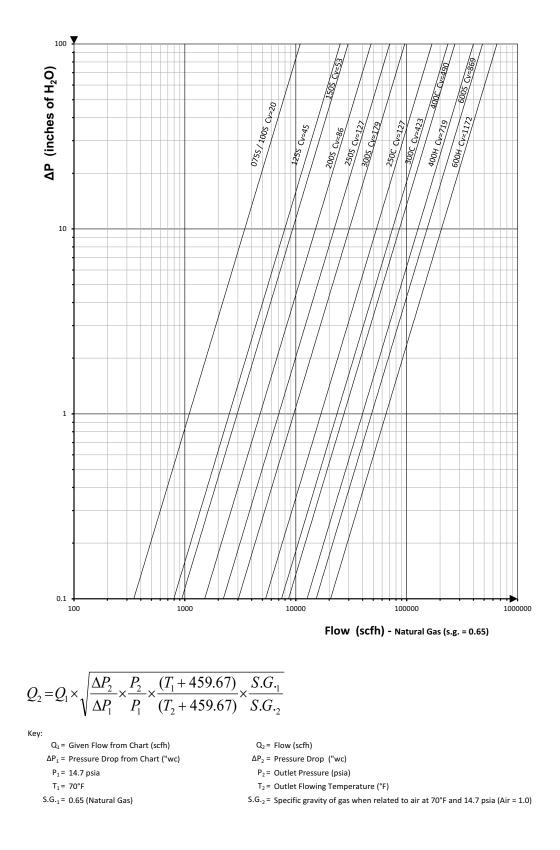
Valve sizing charts

Approximate pressure drops for various valve sizes and flows may be determined by using this graph.



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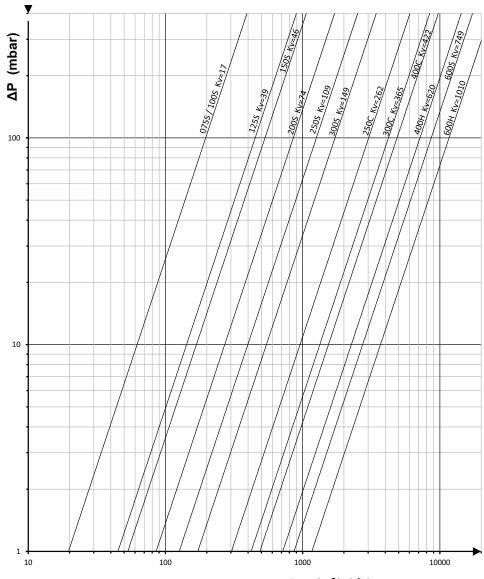
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Valve sizing charts

Approximate pressure drops for various valve sizes and flows may be determined by using this graph.



Flow (m³(st)/h) - Natural Gas (s.g. = 0.65)

$$Q_2 = Q_1 \times \sqrt{\frac{\Delta P_2}{\Delta P_1} \times \frac{P_2}{P_1} \times \frac{(T_1 + 273)}{(T_2 + 273)} \times \frac{S.G_{\cdot 1}}{S.G_{\cdot 2}}}$$

Key:

- $Q_1 = Given Flow from Chart (m³(st)/h)$
- ΔP_1 = Pressure Drop from Chart (mbar)
- P₁ = 1 bar absolute
- T₁= 21.1°C
- S.G.1 = 0.65 (Natural Gas)

- $Q_2 = Flow (m^3(st)/h)$
- ΔP_2 = Pressure Drop (mbar)
- P₂= Outlet Pressure (bar absolute)
- T₂ = Outlet Flowing Temperature (°C)
- S.G.₂ = Specific gravity of gas when related to air at 70°F and 14.7 psia (Air = 1.0)

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