

Flow Calculation for Gases

The calculation of flow (Cv) is a formula which is used to determine a valve's flow under various conditions and to select the correct valve for a flow application. The Cv was designed to deal with liquid flows. It assumes the flow is liquid, not gases at 100°F under 14.7 psia (1 atm) and a pressure drop across the valve of 1 psi. However, this same Cv value can be used to determine gas flow through a valve. The formula however does indicate the gases, as gases are compressible fluids and are thus affected by temperature. Furthermore, gas formulas are required to accurately estimate flow. When the upstream pressure equals or exceeds two times the downstream pressure, it is known as a "choked flow" condition. This calls for use of the Critical Flow Formula. If the upstream pressure is less than two times the downstream pressure, the Sub-Critical Flow Formula should be used.

Critical Flow When: $P_1 \geq 2 \times P_2$	Sub-Critical Flow When: $P_1 < 2 \times P_2$
$C_v = Q_g \frac{\sqrt{S.G. \times T}}{0.16 \times P_1}$	$C_v = \frac{Q_g}{96.2} \sqrt{\frac{(S.G. \times T)}{(P_1^2 - P_2^2)}}$
$Q_g = C_v \frac{0.16 \times P_1}{\sqrt{S.G. \times T}}$	$Q_g = 96.2 \times C_v \sqrt{\frac{(P_1^2 - P_2^2)}{(S.G. \times T)}}$

where:

Q_g = Gas Flow in Standard cubic feet per hour

P_1 = Upstream static pressure in psi

T = Absolute temperature in °R, °F + 460

P_2 = Downstream static pressure in psi

P = Absolute pressure. This is only large pressure plus 14.7 (atmospheric pressure)

S.G. = Specific Gravity of medium where air at 100°F and 14.7 psi = 1.0

Example

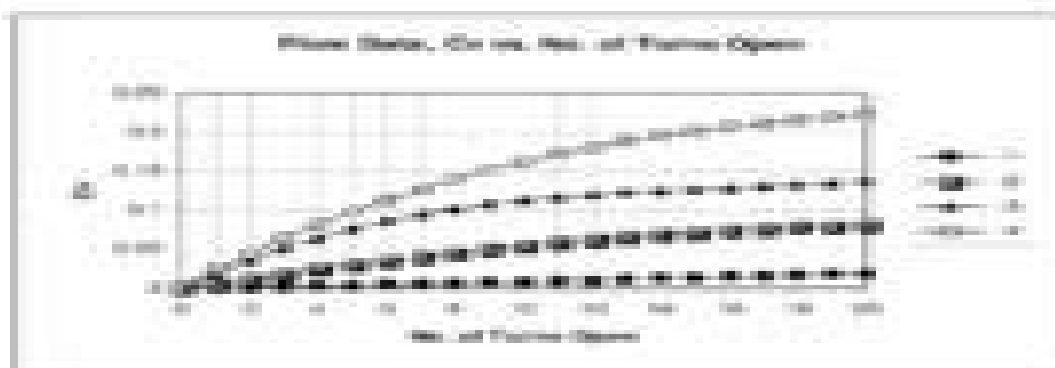
Estimate which valve size should be used for the following application. Upstream pressure is 100 psia, downstream is atmosphere. The medium is 100°F wetted gas (S.G. = 0.6) and the desired flow range is up to 100 SCFH.

$$C_v = 1000 \times \frac{\sqrt{0.6 \times 560}}{0.16 \times 114.7} = 1000$$

The Cv value at which 100 SCFH of medium will flow under the above conditions is 1000. Upon examination of our Cv table the pressure drop, we note that this value is reached at approximately size 8.1 with our 3-

10000 control gear at turn 5.0 with our 4-1/2 inch valve. This and our valve pressure tolerance approximately 5.4 or 6.1 turns of actuating providing for this application.

Specific Gravity of gases	S.G.
Air at 100°F	0.999
Helium	0.138
Acetylene	0.902
Argon	1.33
Carbon Dioxide	1.35
Carbon Monoxide	0.968
Fluorine	3.10
Hydrogen	0.069
Hydrogen Sulfide	1.36
Neon	0.90
Nitrogen	1.25
Nitrogen Dioxide	1.15
Oxygen	1.33
Oxygen & Propane	1.51
Propane	1.52
Sulfur Dioxide	2.26



Flow Calculation For Gases Needle Valve

DJ Losen



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