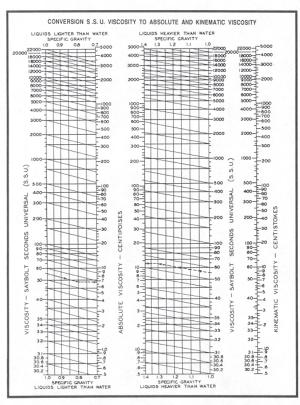
VALVE SIZING FORMULAS

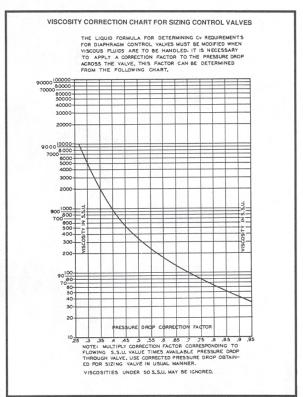
The term Cv is generally used by industry for comparing and calculating relative flow capacity in valves. Consideration should be given that calculated results are comparative only.

Definitions: Cv equates to the number of gallons per minute of water, having a specific gravity of 1.0, that will pass through the valve with a pressure drop at the valve of 1 PSI.

*When calculating gas or vapor flow and the calculated $\triangle P$ exceeds one-half the upstream pressure, use one-half the upstream PSIA as sizing $\triangle P$.

**When sizing viscous liquids, use the charts below to correct the $\triangle P$ for sizing purposes.





temperature in degrees F)

SPECIFIC GRAVITY OF VARIOUS GASES - AIR = 1

SELCII IC GIT	AVIII OI	VALUOUS GAULS	AII - I		
Name	S.G.	Name	S.G.	Name	S.G.
Acetylene	0.9073	Ethylene	0.9749	Methyl Ether	1.6318
Ammonia	0.5963	Fluorine	1.312	Natural Gas	0.6 Ap.
Argon	1.3796	Helium	0.13804	Neon	0.69638
Boron Fluoride	2.31	Hydrogen	0.06952	Nitric Oxide	1.0366
Butane (n)	2.0854	Hydrogen Bromide	2.8189	Nitrogen	0.96724
Butane Iso-	2.067	Hydrogen Chloride	1.2678	Nitrosyl Cl.	2.314
Carbon Dioxide	1.5290	Hydrogen Sulfide	1.190	Nitrous Oxide	1.5297
Carbon Monoxide	0.9671	Krypton	2.868	Oxygen	1.105
Chloride	2.486	Methane	0.5544	Ozone	1.658
Ethane	1.0493	Methyl Chloride	1.7848	Propane	1.562
		Sulfur Dioxide	2.2638		

ALL SPECIFIC GRAVITIES ARE LISTED FOR COMPARISON ONLY



P.O. Box 581390 Tulsa, OK 74158 (918) 836-8411 Fax: (918) 832-9962