



Program Version	Creation Date	Program Author	Country	Calculator	ROM Version
1.11	7/03/2001	Miguel Angel CAPORALINI HERK			1.18
Program Title					
Flow, Pressure Drop & Flow Coefficient Data Calculus of Liquid, Gas & Steam in Valves & Fittings (with Cv Factors)					
Library Number			Checksum (CRC)		Bytes
L901.lib - FLDAT			# BD76h		12524.5

I'm writing this program in UsrRPL Language and after create a Library (L901.lib - FLDAT), wich allow calculate for a Flow, Pressure Drop & Flow Coefficient Data Calculus of Liquids, Gas and Steam or Vapor, in Valves and Fittings, used in Oil and Other Industries:

- 0- Liquid
 - Liquid Flow (U.S. Gallons per Minute)
 - Pressure Drop (psi)
 - Flow Coefficient (Cv)
 - **DP < .5 x Absolute Inlet Pressure**
 - Gas Flow (SCFM)
 - Pressure Drop (psi)
 - Flow Coefficient (Cv)
- 1- Gas
 - **DP ≥ .5 x Absolute Inlet Pressure**
 - Gas Flow (SCFM)
 - Pressure Drop (psi)
 - Flow Coefficient (Cv)
 - **DP < .5 x Absolute Inlet Pressure**
 - Steam or Vapor Flow (LB/HR)
 - Pressure Drop (psi)
 - Flow Coefficient (Cv)
- 2- Dry Saturated Steam
 - **DP ≥ .5 x Absolute Inlet Pressure**
 - Steam or Vapor Flow (LB/HR)
 - Pressure Drop (psi)
 - Flow Coefficient (Cv)
 - **DP < .5 x Absolute Inlet Pressure**
 - Steam or Vapor Flow (LB/HR)
 - Pressure Drop (psi)
 - Flow Coefficient (Cv)
- 3- Superheated Steam
 - **DP ≥ .5 x Absolute Inlet Pressure**
 - Steam or Vapor Flow (LB/HR)
 - Pressure Drop (psi)
 - Flow Coefficient (Cv)

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Unit Conversion :

$$^{\circ}\text{R} = ^{\circ}\text{F} + 460$$

Specific Gravity for H_2O = 1.0 @ 60 $^{\circ}\text{F}$

Specific Gravity for air = 1.0

For exact Cv coefficient = Consult O.E.M.(Original Equipment Manufacturer)

Note:

Thanks to ... Juan Andr  s Buonadonna (juanandres@tin.it), for suggestion to include (in this version), calculus of approximate **Cv** (Flow Coefficient), in all cases.

For any questions, please contact me :

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