
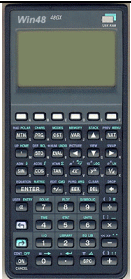


Program Version	Creation Date	Program Author	Country	Calculator	ROM Version
1.11	5/12/2001	Miguel Angel CAPORALINI HERK			HPHP48-R
Program Title					
Flow and Pressure Drop Data Calculus of Liquid, Gas & Steam in Valves & Fittings (with Cv Factors)					
Library Number			Checksum (CRC)		Bytes
L904 - FLDAT			# 952Ch		12751,0

I'm writing this program in UsrRPL Language and after create a Library (L904 - FLDAT), wich allow calculate for a Flow and Pressure Drop 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)
 - $DP < .5 \times \text{Absolute Inlet Pressure}$
 - Gas Flow (SCFM)
 - Pressure Drop (psi)
 - Flow Coefficient (Cv)
- 1- Gas
 - $DP \geq .5 \times \text{Absolute Inlet Pressure}$
 - Gas Flow (SCFM)
 - Pressure Drop (psi)
 - Flow Coefficient (Cv)
 - $DP < .5 \times \text{Absolute Inlet Pressure}$
 - Steam or Vapor Flow (LB/HR)
 - Pressure Drop (psi)
 - Flow Coefficient (Cv)
- 2- Dry Saturated Steam
 - $DP \geq .5 \times \text{Absolute Inlet Pressure}$
 - Steam or Vapor Flow (LB/HR)
 - Pressure Drop (psi)
 - Flow Coefficient (Cv)
 - $DP < .5 \times \text{Absolute Inlet Pressure}$
 - Steam or Vapor Flow (LB/HR)
 - Pressure Drop (psi)
 - Flow Coefficient (Cv)
- 3- Superheated Steam
 - $DP \geq .5 \times \text{Absolute Inlet Pressure}$
 - Steam or Vapor Flow (LB/HR)
 - Pressure Drop (psi)
 - Flow Coefficient (Cv)

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Unit Conversion :

°R = °F + 460

Specific Gravity for H₂O = 1.0 @ 60 °F

Specific Gravity for air = 1.0

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

Note: Thanks to Juan Andr s Buonadonna <juanandres@tin.it>, by suggestion of include Aprox. Flow Coefficient (Cv) calculus, for all cases.

For any questions, please contact me :

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