About this document

This document contains screenshots of software available from Cheresources.com. You can find this title in our online store at:

http://www.cheresources.com/cheplusstore/catalogue.php

Clicking the above link should activate your default browser and launch the site.

We recommend using our search feature to find the title.

If you haven't visited our site before, you can find the main page at:

http://www.cheresources.com

Thanks for visiting our site,

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Content Based
Chemical Engineering

FLASH - % condensate flashed at lower pressure

BASIS: Enthalpy balance from the initial saturated condensate to the combined flash steam and remaining condensate.

REFERENCES: PERRY'S CHEMICAL ENGINEERS HANDBOOK

NOTE: Always begin a new case by retrieving the original file. Direct entry of data in cells that originally contain table lookups could cause functions to be lost, or incorrect calculations. I format cells requiring entry colored **RED**; calculated values are black.

H = Enthalpy	**1 = Initial conditions**
f = saturated liquid	**2 = Final conditions**
g = saturated gas	

1.) Enter identification at [C4].
2.) Enter the initial condensate pressure at [D5].
3.) Enter the flashing pressure at [D6].

The percent flash steam is calculated and shown at [D18].

Print out using direct Excel commands. This application is provided by Chemical Engineers Resource Website, vis cheresources.com for additional selections.

Print out using direct EXCEL commands.

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4/17/2004

FLASH - % condensate flashed at lower pressure

SERVICE: 15# CONDENSATE TO ATMOS. FLASH TANK, HAZ.#5

P_1 = 150 psig

P_2 = 0 psig

$$x = \frac{Hg_2 - Hf_1}{Hg_2 - Hf_2} \text{ liquid fraction}$$

$$= \frac{(1150.5 - 338.6)}{(1150.5 - 180.2)}$$

= 83.7% liquid

(1-x) = 16.3% flash steam

4/17/2004

FLASH - % condensate flashed at lower pressure

SERVICE: 15# CONDENSATE TO ATMOS. FLASH TANK, HAZ.#5

P_1 = 10.3421 bar ga

P_2 = 0 bar ga

$$x = \frac{Hg_2 - Hf_1}{Hg_2 - Hf_2} \text{ liquid fraction}$$

$$= \frac{(2675.5 - 787.2)}{(2675.5 - 417.5)}$$

= 83.6% liquid

(1-x) = 16.4% flash steam