

CHE 4253

Chemical Engineering Process Design and Safety, Fall 2018

QUIZ # 7-Part I

Multiple Choice part: (5 minutes total) (5 points each)

1) In Flash design, the balance of forces does not include

- A gravity
- B buoyancy
- C surface tension.
- D drag force
- E none of the listed are included

2) The height of a flash

- A Is based on the liquid residence time only.
- B Is determined independently of the diameter value.
- C Is determined after the diameter is calculated
- D None of the above

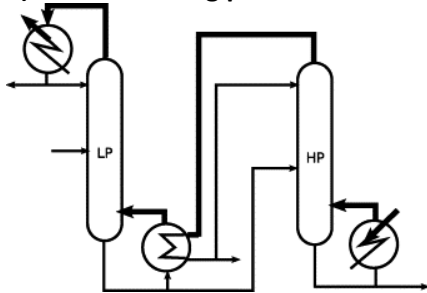
3) The height of a flash

- A Is limited by a height-diameter ratio range
- B Is not limited by any constraint
- C Is limited to be larger than 2 diameters.
- D None of the listed

4) The velocity used to obtain a column diameter

- A Is the flooding velocity.
- B Is 20% higher than the flooding velocity
- C Is a fraction of the flooding velocity
- D None of the listed.

5) The following picture



- A Is a pressure swing arrangement
- B Is a direct sequence
- C Is a double effect distillation design
- D None of the listed.