Plantware

Design of Pharmaceutical Piping Installations according to EN13480 Industrial Piping for e.g.,

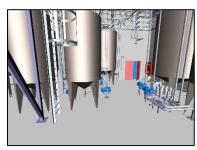
- HPW & WFI loops
- CIP-system
- Clean Steam
- Buffers
- Process Installations
- Other Clean utilities

Design of Piping for Pharmaceutical installations have many considerations, but mainly the ability to keep inside of installation clean:

- Dead-Leg
- Drain ability
 - Piping General
 - Membrane Valves
- Bending Radiuses
- Instrument built-in especially analyzing instruments like pH and Conductivity probes.

Manufacturing and filling with Protective gas does also need to be considered.

Trainees will get a general introduction into design demands for clean system design and the rules and regulations that applies to this area. Course will also show possibilities for creating automated design review.

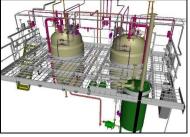














Pictures from various pharmaceutical and API projects.

Pharma

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