Plantware

illation Plant:

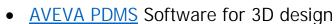
Design of Distillation Plant for various businesses:

- Pharmaceutical / Biotech
- API Active Pharm. Ingredient
- Chemical

P-Engineering designs with the following Engineering Scope:

- PFD & PID
- 3D General Layout
- 3D Detailed Layout
- Process Calculations
- PED Pressure Design
- ATEX Zone (0)/1/2
- Control and SR Valve Sizing
- Static Equipment Design & Sizing
- Pipe Design with Pipe Isometrics for prefabrication EN13480
- Support Structure
- Structural Steel Design
- Access Ways and Platforms
- Instrumentation Intrinsic Safe
- Insulation Specification
- MCC's and Electrical Supply
- Cabling Power, Signal & IT
- Process Control System Specification & FD's
- Insulation Specification
- Surface Treatment Specification

P-Engineering uses e.g.



- <u>CONVAL®</u> for Control Valve Design
- PIPE-FLO® Pump Sizing and Pressure Loss
- ROHR2 software for Pipe Flexibility Calculations

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Pictures of an Ethanol Distillation Plant @ an API factory in Denmark. Ethanol Storage in the background. Ethanol was used for sedimentation of product.