

Pharma: WFI & HPW Loops P-223

Design of Purified Water Loops – both HPW or WFI Grade Water – according to PED and EN13480 for different applications such as

- Life-Sciences
- Pharmaceutical Plants
- Hospitals
- API Plants
- Food & Beverage

The design work covers

- Unit – with Storage and Heating/Cooling installations.
- Loop – design with Outtake to Production or Laboratories
- Monitoring – Turbidity, Conductivity, pH etc.
- CIP – Design
- Sanitation for non-GMP applications

P-Engineering deliveries will be

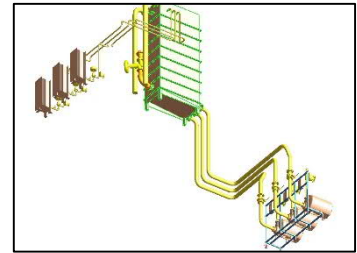
- BoQ – Piping Items
- BoQ – Welding per Diameter
- BoQ – Insulation
- Fabrication Pipe Isometrics
- Support Drawings

P-Engineering has automated Design Validation of Pipe Design direct in the 3D model – Checking Drain-ability, Dead Leg, Bending Radiuses etc.

P-Engineering uses e.g., [AVEVA PDMS](#) Software for 3D design, [DXT](#) EN13480 Software for Detail Calculations, and PipFlo® for Flow and Pressure Loss Calculations.

Contact Information:

Christian Pallesen; +45 2526 8805; cp@p-engineering.dk



Top: Add-on Unit to existing facility. Middle: New WFI-Unit. Middle: Loop Outtake in Lab @ AGC Biologic. Bottom: HPW unit for Gentofte Hospital.