

## Steam: Piping acc. to EN13480 P-316

Design of Steam and Condensate Piping installation according to PED and EN13480. Design of Steam Pipes with

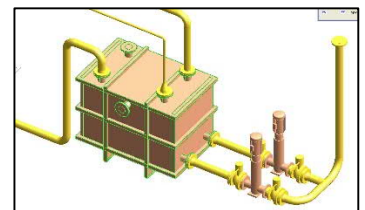
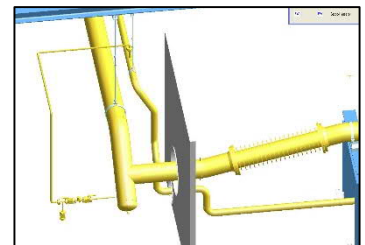
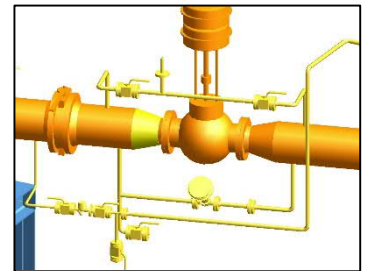
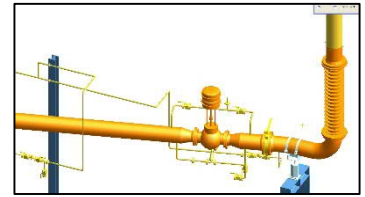
- Pipe Flexibility Calculations
- Detailed Component Design – Tees, Olets, Tube/Shell etc.
- Pipe Design – 3D routing and Detail design with Manufacturing Pipe Isometrics
- Steel Support Design with Manufacturing Drawings
- Pipe Support – Fix (Lateral & Axial), Suspended, Spring or Constant Load
- Compensator design
- Start-up arrangements
- Drain and Water Droplets removing Arrangements.
- Control Valve Arrangement
- Safety Shut-off and De-pressurizing Valve Arrangement (Emergency Shut-off).
- Instrumentation
- Control Specification (FDs)
- Condensate Collection – Pressurized and Pressure less
- Condensate Boxes and Return Pump Arrangements

P-Engineering uses e.g.,

- [AVEVA PDMS](#) Software for 3D design
- [DXT](#) EN13480 Software for Detail Calculations
- [ROHR2](#) software for Pipe Flexibility Calculations
- [LISEGA](#) Pipe Support Design Software

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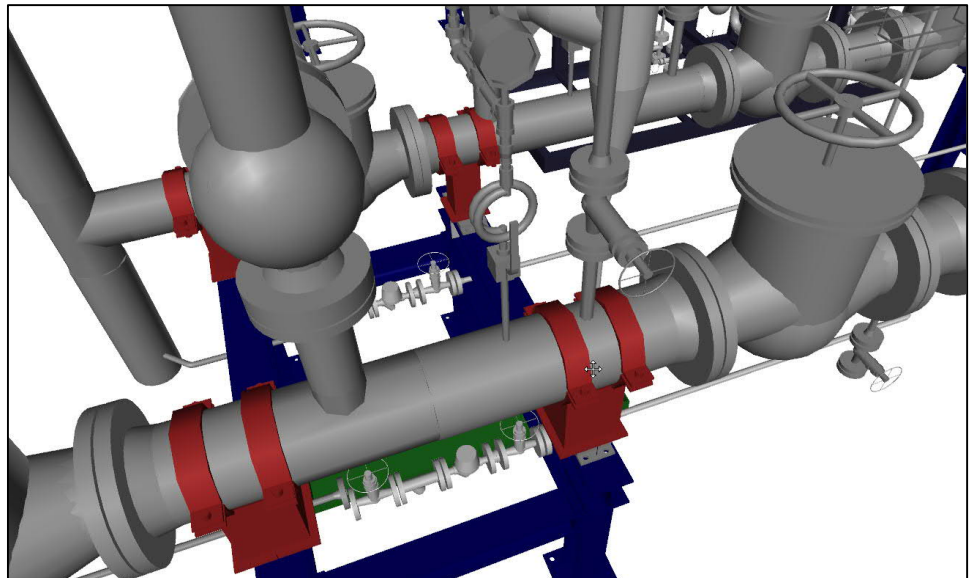


*Pictures from the Waste Incineration plant "[I/S Vestforbrændingen](#)" for a Heat Recovery project, where Steam was used to regenerate salt in Heat Pumps.*

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*Example of a Steam Drain with Thermostatic Steam Trap. From Steam distribution on an API – Active Pharmaceutical Ingredient – factory in Denmark.*



*Example of 3D Design of Main Steam Line*

# Plantware