

# Plantware

## Piping Installations

### Planning of Piping Installations

Companies can save a great deal of money, achieve high operating efficiency and thus avoid much annoyance by planning and projecting their pipe systems professionally. Among other things, there is a great deal to be saved through the optimum exploitation of the pipe system's strength and flexibility by choosing optimum pipe dimensions and the correct insulation thickness. In addition, operating at maximum efficiency will result in considerable savings.

Some of the questions that ought to be asked when planning pipe systems are:

- Regulations and standards?
- Operation?
- Documentation and quality assurance requirements?
- Adjacent systems such as heat exchangers, etc?
- Design criteria - pressure loss, insulation?

PlantWare A/S can provide a solution customized to your company's needs and user and statutory requirements.

### Design Tools

PlantWare uses state of the art engineering tools like e.g.

- ROHR2 or Ceasar N for pipe flexibility
- CONVAL for pipe sizing and control valve selection
- AVEVA 3D PDMS for design and generation of parts list, isometrics etc.
- PDS 2007 Smart Plant® for design and generation of part lists, isometric etc.
- INVENTOR - mechanical design
- PIPE-FLO - pump selection and pipe system design.



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### Engineering of Piping System

Pipe installations typically comprises the following elements:

- Determining operating and construction parameters (pressure, temperature, mass flow)
- PF and PI chart
- Pipe sizing
- Material selection
- Pipe routing
- Pipe flexibility calculations - determination of stress in pipe shell and loads on supports and equipments
- Pipe Isometrics with parts and welding lists
- General Arrangement drawings
- QA and NDT
- Supervision
- Inspection assembly and welding



### Related services

Together with our client PlantWare can:

- Prepare tender documents
- Tender evaluation
- Purchasing specifications
- Contract negotiations
- Perform safety assessment on new and existing facilities
- Undertake troubleshooting
- Overall CE-marking

Web:

- [www.plantware.dk](http://www.plantware.dk)
- [www.pdms.dk](http://www.pdms.dk)

### Contact



Christian Pallesen  
Phone +45 4547 5105  
Mobile +45 2526 8805  
Email [cp@plantware.dk](mailto:cp@plantware.dk)