

Super Critical Processes – CO2 P-451

Super Critical CO₂ based processes is rated 2-300 barg @ 2-300°C and above. Under these conditions the fluids are often overly aggressive and pipe material therefore often exotic like Nickel based [Inconel®](#). We design Pressure Vessels and Piping installations acc. EN13480, EN13445 and the Pressure Directive in general.

P-Engineering do Vessel and Pipe design:

- Detailed calculations of fittings like Elbow, Bends, Tees, Olets, Nozzles, Lifting Lugs, Body, Tube Pieces etc.
- Pipe flexibility Calculations and Investigations with detection of loads on nozzles for adjacent Equipment
- Pipe Support Design with Fixpoints, Sliding Supports, String Load and Constant Load Supports.
- Creep Investigations if needed.

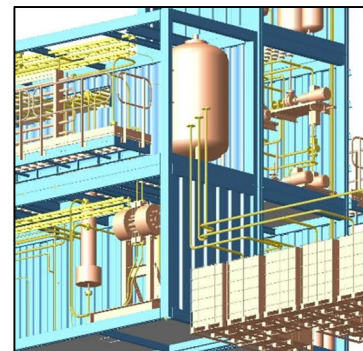
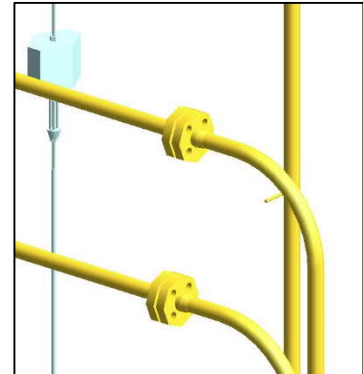
The design work covers Calculation and Detail Drawings for manufacturing of the Piping and Vessels.

P-Engineering uses e.g.

- [DXT](#) Software for Pipe Fittings and Vessel Design
- FEM – Tools for Special Cases
- [ROHR2](#) Software for Pipe flexibility calculations.

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Pictures from a Container Based Plant for converting Wastewater Residues to Bio Diesel.