

## Cryogenic Vessel ac. EN13445 P-166

Design of LNG Cryogenic Pressure Vessels according to EN13445 and the Pressure Directive in general. Vessels with both Body/Shell and Circular design. Cryogenic Vessels are design with Double Walls for Vacuum Heat Insulation in both Vertical and Horizontal design.

The Design of Pressure Vessel includes calculation and design of the following for both Inner and Outer Body:

- Shell
- Dished/Circular Ends
- Nozzle – Internal Pressure and Static & Dynamic Load from adjacent piping
- Lifting Lugs
- Support Legs and Foundation Details.
- Internal installations like Vaper Extraction etc.
- Lugs for mounting external item (cable trays, bonding, instrument support etc.).

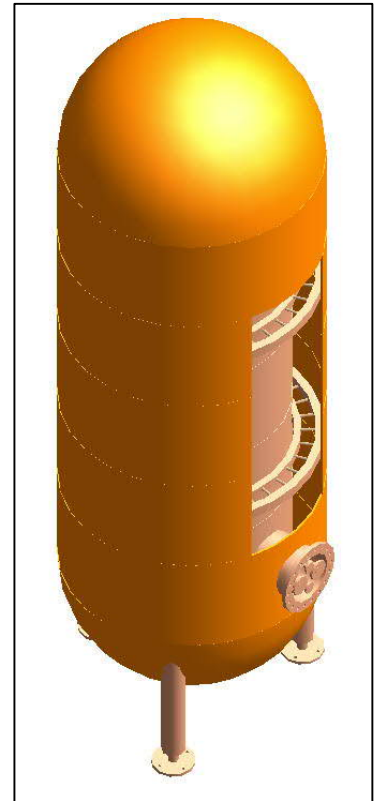
The design work covers Calculation and Detail Drawings for manufacturing of the Vessel.

P-Engineering uses e.g.

- [DXT](#) Software for Vessel Design
- FEM – Tools for Special Cases
- [Solidworks](#) for Manufacturing Drawings

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*Example of a vertical LNG Vessel @ 10m<sup>3</sup>*