

## Storage Vessel Design; $P < 0.5$ P-162

Design of Pressureless Storage Vessel Design as defined in Pressure Directive  $< 0.5$  barg Pressure for various product:

- Fuel Oil
- Special Oils (Chain, Lubrication, Hydraulic etc)
- Lye
- Acid
- Water

The Design of Pressure Vessel includes calculation and design of

- Shell / Body (Dead Load)
- Bottom and Top
- Nozzles - Load for adjacent piping
- Lifting Lugs
- Support Legs
- Support Consoles
- Bottom frames including reinforced Concrete Foundation.
- Internal baffle plates for e.g.
- Hatches
- Lugs for mounting external item (cable trays, bonding and instrument supports etc.).

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

P-Engineering uses e.g.

- [AVEVA PDMS](#) 3D for General Arrangement
- [SolidWorks](#) for Tank Detail Drawings

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*Top: Special Oil Storage;  
Middle Picture: Lye Storage Vessel @ [Vejle Havn](#); Bottom Picture: Special Oil Storage (Hydraulic, Chain Saw etc.) @ [Aarhus Havn](#).*