



Cutting-edge annotated graphics make it easy to confirm that the analysis model is correct when reviewing input data.

PVElite®

PVElite is a complete solution for vessel design and evaluation that calculates required wall thickness of new pressure-containing components and easily re-rates working pressures for existing vessels.

Data Collection

PVElite makes defining pressure boundary conditions for vessels easy, even for load sets that require significant data input. PVElite streamlines this data entry by breaking the input down into sensible subsets such as major vessel elements, vessel details, analysis controls, design loads and shop test conditions. And, help on any input item is only a keystroke away.

Graphics

PVElite's graphical representation of vessel models helps ensure complete confidence in the analysis. With PVElite, you can view and manipulate the vessel as if it were being held in the hand. Even input windows and help screens use graphics to identify the parameters required for input, making these tasks a breeze.

Analysis Options

PVElite performs calculations in accordance with ASME Section VIII Divisions 1 & 2, PD 5500 and EN 13445. Rules from API 579 (Fitness for Service) are also included for evaluating the current state and remaining life of existing vessels.

Output

To simplify inspection requirements, PVElite lists the most important equations such as required thickness and maximum allowable working pressure (MAWP) and groups results by type (e.g. internal pressure, external pressure, bending stress, nozzles, and flanges). Overall results are summarized where the element or detail controlling the overall vessel MAWP is identified.

Content

PVElite is a global package with international code rules plus extensive region-specific content. Vessel material definitions, piping and steel component data, local wind loads and local seismic loads of many regional markets are all included.

Interfaces

PVElite interfaces with other popular software packages for finite element analysis, foundation design and drafting. PVElite also shares a bi-directional link to COADE's CADWorx Equipment module.

Features

- Pre-loaded default values for quick start-up
- Regional units for complete flexibility
- Single component or whole vessel analysis
- Analyzes dynamic and natural frequency
- Reports with complete code equations
- Annotated AutoCAD compatible output
- Full technical support
- Scheduled training seminars

Technical Specs

- Runs on Windows 2000 and Windows XP Pro

Application Areas

Process and Plant Design, Piping, Equipment, Petrochemical, Chemical, Power, Food, Beverage, Brewing, Pharmaceutical, Water Treatment and Shipping.

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