



AutoPIPE[®] Vessel

AutoPIPE Vessel provides comprehensive, flexible software for optimized pressure vessel, heat exchanger, or tank design on new or existing global projects. Supporting all major design codes, it offers productivity gains using open exchange with thermal design

simulation capabilities and delivering detailed drawings and 3D models in all major CAD formats.

The following table lists all features and their availability in each of the AutoPIPE Vessel licenses.

Features	AutoPIPE Vessel Heat Exchanger	AutoPIPE Vessel Standard	AutoPIPE Vessel Ultimate
ASME VIII (US design code)	◆	◆	◆
PD5500 (British design are code)	◆	◆	◆
CODAP (French design code)	◆	◆	◆
AD-Merlbätter (German design code)	◆	◆	◆
EN 13445 (European design code)	◆	◆	◆
GOST (Russian design code)	◆	◆	◆
GB (Chinese design code)	◆	◆	◆
Pressure Vessel Design and Analysis		◆	◆
Shell and Tube Heat Exchanger Design and Analysis	◆		◆
Storage Tank (API 650) Design and Analysis			◆
Air Cooler (API 661) Design and Analysis			◆
Boiler (NFE) Design and Analysis			◆
Chimney Design and Analysis			◆
SolidWorks – 3D ONLY (sldprt, sldasm file creation) ¹	◆	◆	◆
Export/Import to PDS	◆	◆	◆
IFC File Export	◆	◆	◆
MicroStation [®] - 2D, 3D (dgn file creation) ¹	◆	◆	◆
AutoCAD/BricsCAD - 2D, 3D (dwg file creation) ¹	◆	◆	◆
Local Load ²	◆	◆	◆
Expansion Joint and Bellows Design (including TEMA 9th FEA Method) ²	◆		◆
Tubesheet Layout (no tubesheet calculations, only layout design) ²	◆		◆
Anchor Base ²	◆	◆	◆

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Shell / Head / Cone / Flange ²		◆	◆
Beam Design ²	◆	◆	◆
U Bend ²	◆		◆
Flat Plate with Stay Bolts ²	◆	◆	◆
Cost Estimate	◆	◆	◆
Fatigue Analysis	◆	◆	◆
Motion Analysis	◆	◆	◆
Blast Analysis	◆	◆	◆
Wind, Vortex Shedding, Seismic Calculations	◆	◆	◆
Support and Lifting Accessories Calculations	◆	◆	◆
Compress File Import (build 7510)	◆	◆	◆
AutoPIPE Nozzle Load Import	◆	◆	◆
Import of Aspentech and HTRI Files	◆		◆
PXF File Import Export	◆	◆	◆
Platform, Ladders Modeling, External Loads	◆	◆	◆
External Loads, Structural and Piping Clips, Packing, Trays, Coil, Stiffeners	◆	◆	◆

¹ a) AutoPIPE Vessel uses a CAD plugin to create drawings, therefore a CAD program (example AutoCAD, MicroStation, Solidworks) must be installed before exporting the respective drawing from AutoPIPE Vessel.

b) CAD export capability will be limited only to the type of equipment that can be modeled while using a Standard or Heat Exchanger or Ultimate license version of the program.

Example:

With Vessel Standard license enabled, user cannot export a Shell & Tube heat exchanger model to drawings. User must have a Vessel Ultimate or Heat Exchanger license enabled to export a Shell & Tube heat exchanger model to drawings. Shell & Tube heat exchanger can only be modeled with an Ultimate or Heat Exchanger license and not a Standard license.

² Individual component modeling/calculations can be performed instead of full equipment modeling and design.