

INFORMATION REQUIRED FOR DESIGN VERIFICATION OF PRESSURE VESSELS

The following information is required to be provided within the input data package in order to verify a Pressure Vessel, please complete an individual list for each Pressure Vessel:

Item Required	Comment Below if Required
- Design Data i.e. Pressure, Temp, Design Code	
- Volume	
- Hazard Level	
- Category and class of construction	
- Joint efficiency	
- Materials used and properties at elevated temp.	
- Drawings with details including name plates	
- Welding details and weld types	
- Weld sizes and symbol	
- Shell thickness calculations and checks	
- Dished end or flat plate thickness	
- Min Thickness calculations required as per design code	
- Tell tail holes and sizes in reinforcing pads	
- Reinforcing pad details and thickness calcs.	
- Nozzle thickness	
- Nozzle compensation plates	
- Nozzle spacing	
- Flange type and ratings at test pressure	
- Support design and details	
- Hydro test pressure	
- Stresses in components at test pressure	
- Weight of vessel	
- Special requirements	
- PWHT	
- Dish end heat treatment	
- Lifting lug details and calculations	
- Details of Fittings used on vessel	
- Details of Nonstandard flanges used on vessel	
- Non-standard flange calculations	
- Wind design AS/NZS 1170.2	
- Seismic design to NZS 1170.5 and IPENZ PN 19	
- Nozzle loading	
- Equipment design life or pressure cycles	
- NDT testing requirements	

The above required info package applies to each vessel/equipment systems to be design verified, further additional info pertaining to specific equipment conditions may be requested in a later stage.