

Piping Design with a Focus on Integrity

Pipelines and piping systems subject to harsh environmental and process conditions can be susceptible to premature breach of containment. Failure carries a serious safety and environmental risk and often leads to loss of production due to overall system dependency on the piping design.

SVT's expertise in design and integrity management of pressure piping coupled with other core capabilities in materials and corrosion, piping vibration and structural analysis, provides our clients with a technically complete service. SVT can extend the boundaries of traditional conservative methods of piping design to deliver pragmatic solutions with a long-term view to asset integrity.

SVT provides technical support, specialist advice and project management during all phases of the project life-cycle, from concept design through to decommissioning. We provide piping design and management solutions that are fit-for-purpose and integrity focused.

Detailed design

SVT offers comprehensive design of piping systems from layout preparation and 3-D modelling to complete system analysis. We ensure the optimum life of your asset by focussing on integrity and preventive plans at the FEED phase.

Design verification and validation

SVT offers independent reviews and validation of pipelines and safety-critical piping systems to national and international standards. We provide assurance your piping system will be designed and built to best engineering practices.

Piping integrity assurance

SVT helps clients avoid unplanned process interruptions and losses of containment by considering corrosion mitigation strategies, fracture control plans and risk-based inspection strategies (RBI). SVT also provides fitness for service (FFS) assessments, evaluating flaws and damage that may compromise integrity. We assist clients in making run-repair-replace decisions.

Field survey and inspection

Machine, structure and process interactions with piping can cause vibration issues. SVT performs vibration field surveys during commissioning, operations and troubleshooting to help clients maintain integrity. SVT develops and executes inspection scopes, from commissioning through to in-service inspections.

About SVT

SVT is a specialist engineering consultancy with world-class capabilities in noise, vibration, corrosion and pressure.

Safety, Reliability & Integrity

Our clients call on us when they need to improve the safety, reliability and integrity of their critical assets. SVT's focus is on improving the operational capability of:

- operating plant
- rotating and reciprocating equipment
- pressure vessels and piping systems
- fixed and mobile structures

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