



Piping Analysis - Capabilities Overview

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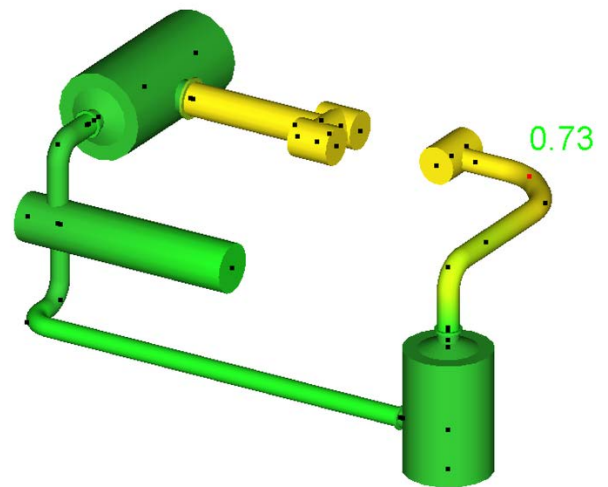
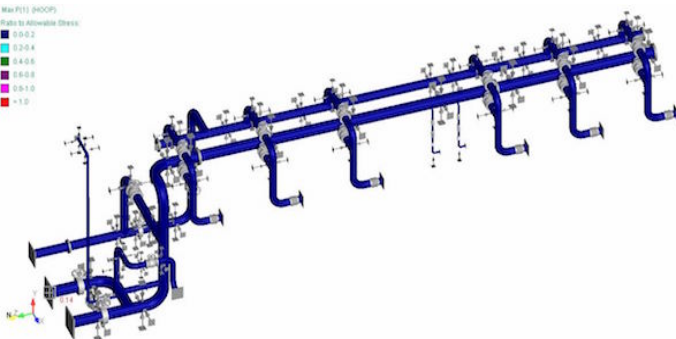
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Engineering Services For Piping

Mechartés specializes in providing advanced engineering services for various piping analysis studies. Piping design is essential for a wide range of applications, from oil and gas extraction and transportation to refineries, power stations, HVAC, plant engineering and cooling systems in engines and turbines. To ensure the functionality of the piping networks and improve their performance for fluid transportation, process engineers need efficient tools and solutions for piping design and optimization

Application

- Pipe Stress Analysis
- Hydraulic Analysis
- Surge Analysis and water hammering
- Life assessment studies for piping
- Root cause analysis
- Flow assurance Modelling
- Maldistribution studies
- Stress, vibration, fracture and fatigue analysis
- Lifting analysis and support design
- Vibration Analysis, FIV, FIAV, FIT Studies
- Thermal expansion study on pipeline and supports
- Internal pipe/valve flows



Application

- Design pipeline network architecture for optimal fluid velocity
- Ensure safety factors and quality criteria for the whole pipeline design and pipeline network construction
- Axial/centrifugal compressors and radial turbine performance predictions

