InterAct performs pressure safety valve and rupture-disk design analysis utilizing industry code API (520, 521 and 2000v7) and the Aspen HYSYS & Plus software. Using process simulation reduces the time spent to complete rigorous pressure relief studies for complex multicomponent fluid. InterAct’s experienced engineers calculate the necessary relief device sizing requirements including relief capacities, and identify major risks and provide overpressure analysis.

Pressure Safety Valve and Rupture Disk Sizing
- Size and rate pressure safety devices as per industry standards
  - Industry standard API 520, 521 is implemented in Aspen HYSYS and Aspen Plus to calculate PSV orifice sizes and relief flows
- Size pipelines leading to and from the relief valves
- Rigorously calculate fire scenario relief flows for multicomponent vessels and account for change in latent heat.
- Size rupture disks and ensure storage tanks comply with 2000v7 overpressure protection
- Create data and summary sheets that can be sent to valve vendors

Flare System Analysis
- Design new flare or evaluate existing flare with Aspen Flare System Analyzer
- Identify potentially dangerous relief scenario
- Improve safety with accurate flare calculations
- Calculate minimum sizes for new flares
- Model flare system network and generate pressure drop reports