

PROVIDER OF

Apps for Process Simulation

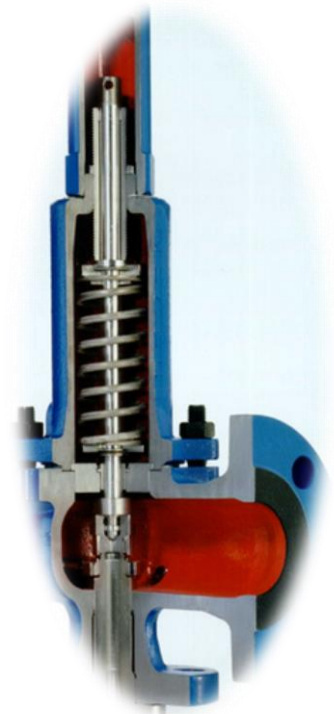
BPT software tools enhance the capabilities of your process simulation tools to improve your engineers efficiency and accuracy

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BPT-PSX™

Rigorous Pressure Relief Valve design and rating model as part of your simulator

- Improve process safety
- Ensures compliance with API 520 9^{ed}, June 2014
- Calculates both steady state as well as transients.
- Ensures compliance with API 520 ref. 4.3.2, “changes in vapour rates and relative molecular masses at various time intervals”
- Effective relief valve sizing for design
- Rated relief valve “As built verification”
- No need for numerous iterations
- Reduce time for safety evaluation
- Documentation automated



The bottom line

Correct relief valve capacity is vital to ensure equipment overpressure protection and avoiding excess flare loads.

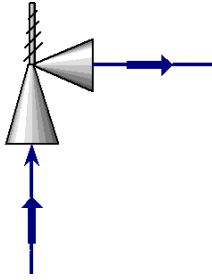
Realistic and cost effective process safety judgements in a minute

BPT was founded 1998 in Norway. We develop and provide Apps for Process Simulation™. We deliver independent and trusted third-party specialist consultancy services to the upstream oil & gas industry, combining experience with leading edge simulation tools using our Apps.

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What is BPT-PSX™



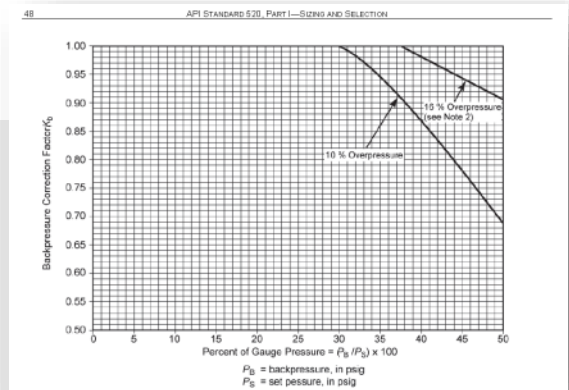
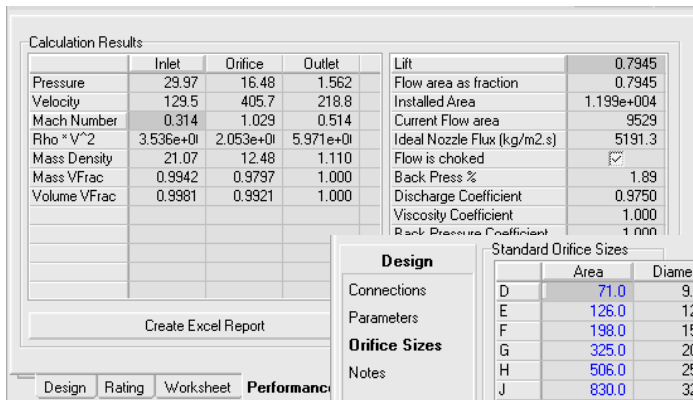
BPT-PSX™ is available as an extension to the most commonly used process simulators. The App uses published data in API 520 9^{ed} to model both effective designs as well as rated vendor capacity.

Steady State Design and Rating

In steady design mode, BPT-PSX™ provides default API 520 design parameters and sizing. The App uses a simulator feed stream with a full composition, pressure and temperature. For a pilot valve with remote sensing, a separate connection can be applied.

For design, BPT-PSX™ may be used to define the required orifice area for a specified flow.

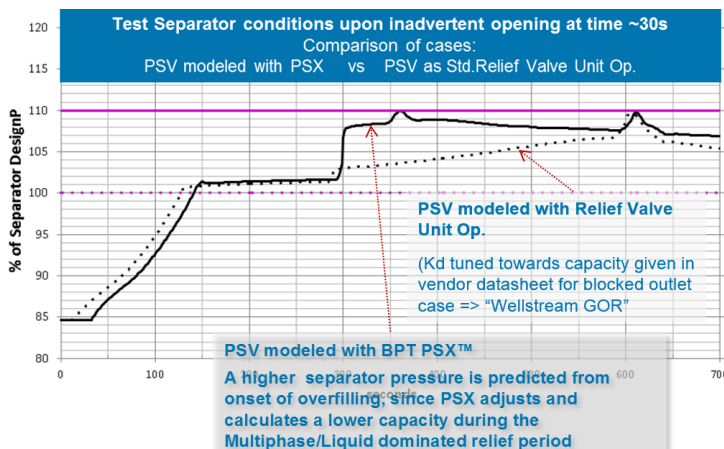
Rated capacity may be verified for the selected orifice and vendor de-rating correction factors and curves.



Transient modelling

In transient mode, BPT-PSX™ will provide a realistic pressure constraint to a transient simulation since the multiphase relief capacity will be automatic corrected per time step in the simulation.

BPT – PSX™ is able to capture the changes required by API 520 9^{ed} section 4.3.2



References

- Statoil** - Gullfaks A, Norne
- Total E&P** - Martin Linge
- BP Norge** - ULA
- Teekay Petrojarl** - Knarr

