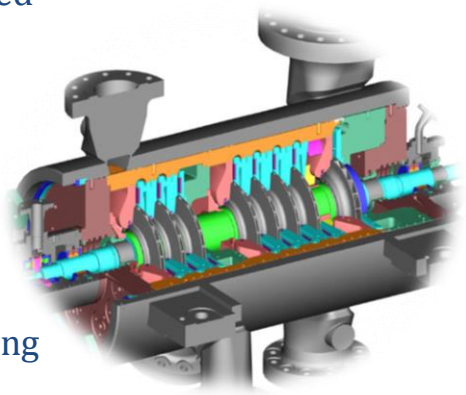
Rigorous Centrifugal Compressor design and performance as part of your simulator

- Design an optimal compressor geometry based on physics and thermodynamics
- Life of Field evaluation of your compressor system
- Off design predictions for a selected design
- Adjusting to mapped curves allows monitoring field performance
- Maximize plant throughput and availability



The bottom line

Ensure an optimal compressor configuration early in the design phase. Avoid wasting energy during operations. Minimize emissions, assess re-bundling needs and avoid plant designs using excessive safety factors.

BPT CODES™ assists realistic and cost effective plant 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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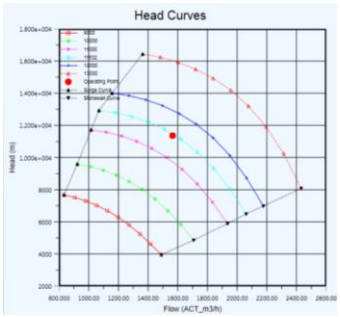
Generate Characteristic Curves



BPT-CODES™ (**CO**mpressor **DE**sign and **S**imulation) automatically generates performance maps for use within the process simulator.

BPT-CODES™ is a tool to develop a simulation model of a compressor based on classic design theories. The app can be used with high degree of confidence to predict the performance of a potential compressor, before any vendor data is available.

BPT-CODES™ generates separate curves for off design conditions for a selected geometry. Realistic performance maps become available for compressor assessments.

It is useful to check the "Freeze Design Data" checkbox (bottom right of the view) once you are done to avoid modifying the compressor design inadvertently.

After the curve generation is done, the interface will show the design parameters that can be used for a preliminary sizing of the compressor anti-surge valve. A button is available to install the compressor anti-surge controller with the parameters that define the surge line defined based on the curve that were generated for the compressor.

References

Statoil	**Åsgard** Subsea Compression, Performance Models
	Gjøa Conceptual and FEED compressor configuration study
GDF Suez EPN	**Gjøa** Operational support
Total E&P Norge	**Martin Linge** - Compressor simulations
Norsk Hydro	**Oseberg C** and **Oseberg South** compressor diagnosis
Linde engineering	**Snøhvit**, Performance monitoring
Talisman	**Gyda** - Gas Lift, Centrifugal compressor study
	YME future – Conceptual study
Dong	**Siri Platform** - Compressor performance study