

PRODUCT DATASHEET

AVEVA™ Pipeline Operations for Liquids

Powerful tools for real-time operations of any pipeline

AVEVA Pipeline Operations for Liquids provides everything needed to efficiently manage real-time pipeline operations using both non-simulation and simulation-based applications.

To say the least, it's a challenge to move petroleum liquids through miles of pipeline; you need to optimize schedules, power usage, staffing, and other critical factors. Even the most skilled personnel require sophisticated tools to front-end their efforts. Where can you find the robust, flexible solutions you need to do the job?

AVEVA offers a broad range of software available for crude oil, refined products, and natural gas pipeline engineering, as well as operational, measurement, and business processes. AVEVA suite of pipeline applications is used by many of the largest operators in the industry in North, Latin, and South America; Western and Eastern Europe; Asia; the Middle East; North Africa; and Australia. All applications are rich, robust, and flexible – and can be cost-effectively integrated into existing corporate IT infrastructures to provide highly accessible information.

Focus on your business

AVEVA Pipeline Operations for Liquids provides comprehensive tools to maximize operational efficiency and the bottom line. We enable you to make decisions in real time for a competitive advantage that can improve every aspect of your business. To meet your unique needs, the applications are available à la carte or are easily combined to provide a robust, integrated system.

AVEVA Pipeline Operations for Liquids neatly organizes major portions of your business into functional areas that are drawn into a powerful, centralized platform. Each application runs on well-known operating systems and provides an industry-leading combination of proven functionality, flexibility, redundancy, historical record keeping, enterprise integration, and assured security to ensure consistent performance.

Non-simulation-based applications

AVEVA Pipeline Operations for Liquids is a comprehensive set of tools for real-time management of scheduling and measurement. Using a standards-based open architecture, it is easily adopted to meet your unique needs.

- Pipeline Operations determines net metered volumes and flow rates for each point of measurement in the pipeline system using API calculations as part of its Virtual Flow Computer functionality.
- Pipeline Operations provides the ability to store, view, and edit pending, active, and completed tickets as part of its Batch Transfer Management functionality.
- Pipeline Operations calculates net and gross volumes of fluid within tanks based on telemetered tank levels as part of its tank management functionality.
- Other functionalities for pump management, product transfer, line blockage and action sequence are also available as part of Pipeline Operations.

Simulation-based applications

AVEVA Pipeline Operations for Liquids is a transient pipeline modeling and simulation system for gas and liquids pipelines. It is the most technologically advanced and dependable pipeline simulation system in the industry. AVEVA Pipeline Operations for Liquids optimizes management of your pipeline operations for greater efficiency, effectiveness, and an improved bottom line.

Use Pipeline Operations simulation-based capabilities to create simple or advanced pipeline environment simulations to aid a plethora of functionality.

- Pipeline Operations calculates and displays a number of hydraulic profiles in real time, e.g. pressure, head, flow, density, viscosity, diameter, etc. along the pipeline.
- Pipeline Operations tracks the movement and predicts the estimated time of arrival for products, batches, scrapers (pigs), transmix, quality, and anomalies through a pipeline system.
- Pipeline Operations calculates the inventory either very accurately using the advanced real-time transient model or using API 2005 standards for changes in volume due to temperature and pressure.

An integrated approach

AVEVA Pipeline Operations for Liquids is one of the offerings based upon a common advanced application development environment for building advanced software applications for the pipeline industry. This allows Pipeline Operations to have common configuration tools, common database, common pipeline model connectivity, and common runtime environment with other offerings from AVEVA creating a unique integrated solution.

An easy choice to make

Leading energy companies worldwide can attest to the power and proven performance of AVEVA systems. In North America alone, AVEVA systems manage over 60 percent of all hydrocarbon movements. Choose the industry leader – AVEVA's AVEVA Pipeline Operations for Liquids.

