



Minimize cost, improve margins and maximize output with a powerful pipeline simulation tool.

# PipelineOptimizer

A real-world simulation tool for accurately predicting flow rates, pressures, batch arrival time and total volume pumped for virtually any liquid pipeline.

## Optimize Cross-Country, High-Pressure Pipelines

Minimizing operating costs requires intelligence to quickly determine the pumping schedules and drag reducing agent (DRA) usage that best meets customer demands. PipelineOptimizer is designed to deliver mission-critical data in the form of schematics, tables and menus to expedite operator decision making. This powerful engineering and operations tool simulates liquid pipeline hydraulics and operations using fundamental fluid flow theory. It also applies standard engineering equations to the complicated flow phenomena that often occurs on cross-country, high-pressure pipelines. Operators can now use advanced simulation to accurately locate and evaluate bottlenecks as well as manage a number of daily operations to improve margins and maximize throughput.

### The Premier Solution for:

- **Accurately assessing and studying realistic operational schedules and performing ‘what if’ scenarios to address real-world operations**
- **Locating and evaluating bottlenecks in your pipeline**
- **Performing capacity studies and operating cost and downtime analysis to understand the cost of system changes**
- **Reducing pipeline operating costs by lowering both power consumption and the use of Drag Reducing Agents (DRA) by 2-3% or more**
- **Econometric reporting to maximize pipeline efficiency**
- **Calculating DRA usage, budgeting results and fuel usage**

### Features

- Pipeline capacity determination with unit selection to perform product blends on in-line batches as well as tank volumes
- Pump station unit selection to specify complex batch schedules and operations
- Detailed pump driver simulation to optimize operations to meet desired flow rate, power and/or fuel consumption
- DRA simulation to predict and optimize the use of DRA additives in the pipe
- Inclusion of electric power contract details, including time-to-day rates
- Simulation of heaters, coolers and resistance devices
- Modeling of temperature effects, including energy loss through pipeline walls
- Ability to balance usage of line assets over time to work around line and/or unit outages

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