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AFT Impulse 8	AFT Impulse 7	AFT Impulse 6
<p>Multi-Scenario Comparison: Data can be compared between multiple scenarios to show changes made</p>	<p>Import from CAESAR II® neutral files and Piping Component Files (.pcf) as well as import/export model data from an EPANet file</p>	<p>New graphing features include display of multiple graphs in same tab, stacked graphs, double-Y axis graphs, and new graph folders to organize and easily display groups of saved graphs</p>
<p>Multi-scenario graphing allows easy comparison of results</p>	<p>Enhanced Excel® integration such as: Export data with a controlled scenario-to-worksheet Manager; improved import model change data with batch import to change multiple scenarios at once using junction and parameter friendly names; easier Cost Database creation using Excel import/export</p>	<p>Language choices for German and Chinese, in addition to French and Spanish, for all output, graphs and menus</p>
<p>Multi-level undo and redo on the Workspace</p>	<p>Isometric grid drawing on the Workspace</p>	<p>New Force Summary report available in the output showing all applied force sets</p>
<p>Single or multiple transient Force Sets can be defined directly from the Workspace</p>	<p>Made rotodynamic (centrifugal) and positive displacement pumps data entry clearer on the Pump Property window</p>	<p>New dynamic check valve modeling and Thorley method for estimating reverse velocity through check valves at closure</p>
<p>New capability to model unsteady friction</p>	<p>New color animation in the Visual Report window</p>	<p>New Turbine junction for hydroelectric applications</p>
<p>New pump four-quadrant curves added</p>	<p>Finite tank option for the Reservoir junction allows modeling of tank level changes over time</p>	<p>GIS shape files can be imported to create a model</p>
<p>Forces can be shown on the Visual Report</p>	<p>Additional parameters available for Transient Junction graphs</p>	<p>Improved search capability includes searches for pipe and junction notes, names and numbers</p>

Ready to access these new features? Email [info@aft.com](mailto:info@aft.com)

# Full list of New Features you can use in AFT Impulse™ 8

## Significant New Features

- Data can be compared between multiple scenarios to show changes made
- Multi-scenario graphing allows easy comparison of results
- Multi-level undo and redo on the Workspace
- New capability to model unsteady friction
- Single or multiple transient Force Sets can be defined directly from the Workspace

## Overall

- Improved intelligence on when a model needs to be saved to preserve the output
- Improved model loading speed
- Improved language refresh speed
- New and updated themes

## Workspace

- Magnifier tool to quickly view objects on the Workspace
- Allow pipe/junction editing while the Undefined Items panel is shown
- Double-click on a junction on the Toolbox to add multiple to the workspace (similar to pipes)
- Ability to draw pipes off the grid when in isometric mode
- Junction icons will be automatically rotated to align with pipes
- Select shorted path between two junctions

## Visual Report

- All Summary Output parameters can now be displayed on the Visual Report
- Visual Report Control has been redesigned
- Forces can now be shown

## Pipes

- New capability to model unsteady friction
- Convert intermediate elevations to new pipes and branch junctions
- Pipes can be joined together to form a single pipe

## Junctions

- New pump four-quadrant curves added
- Improved guide to selecting four-quadrant pump data sets
- More intelligent Tee/Wye junction during input and Workspace movements
- Automatic selection of a pump four-quadrant data-set

## Output

- Notes can be added to cells in the Output tables
- Output Control parameters can be filtered by typing part of the parameter name

## Global Edit

- Revised to improve usability
- A step-by-step guide is now available
- A pipe or junction can be selected as the base data to apply to other pipes and junctions
- Notes can be globally edited on junctions

## Other

- Ability to import custom Fittings & Losses loaded from a comma-separated file
- Design Alerts and can be saved to and loaded from a comma-separated file
- New Diagnostics window to help identify special features or options being used in the scenario

## Forces

- Export forces to AutoPIPE
- X-Y-Z directions (unit-vector) can now be added to a force for exporting

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## Add-On Modules

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### Settling Slurry

The only commercial software solution that can model both non-settling and settling slurry waterhammer effects.



### Pulsation Frequency Analysis

Helps identify and avoid resonant frequencies in systems, especially in those caused by positive displacement pumps.

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