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AFT Impulse 9	AFT Impulse 8	AFT Impulse 7
Multi-scenario graphs can now be plotted with scenarios having different pipe sectioning and time steps	Multi-Scenario Comparison: Data can be compared between multiple scenarios to show changes made	Import from CAESAR II® neutral files and Piping Component Files (.pcf) as well as import/export model data from an EPANet file
The Library Manager (previously the Database Manager) has been completely revised and now offers a consolidated way to use and customize libraries of fluids, pipe materials, junctions, etc.	Multi-scenario graphing allows easy comparison of results	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
Use the NEW online Help System for centralized documentation and examples from your browser	Multi-level undo and redo on the Workspace	Isometric grid drawing on the Workspace
Streamline your setup from the new Analysis Setup menu, a user-friendly workflow condensing multiple model-wide specification windows into 1	Single or multiple transient Force Sets can be defined directly from the Workspace	Made rotodynamic (centrifugal) and positive displacement pumps data entry clearer on the Pump Property window
Elbows, Orifices, Venturis and Screens have been added to match AFT Fathom and aide in building models.	New capability to model unsteady friction	New color animation in the Visual Report window
Apply the Herschel-Bulkley viscosity model for shear thinning or thickening fluids with a yield stress	New pump four-quadrant curves added	Finite tank option for the Reservoir junction allows modeling of tank level changes over time
Warnings, errors and Design Alerts shown in the Output are now color coded and organized in a prioritized list for quick review.	Forces can be shown on the Visual Report	Additional parameters available for Transient Junction graphs

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™ 9

## Significant New Features

- The Gas Accumulator Properties window has been redesigned to improve usability and add ability account for to new features such as calculating liquid height which can be graphed over time
- Streamline your setup from the new Analysis Setup menu, a user-friendly workflow condensing multiple model-wide specification windows into one
- The Library Manager (previously the Database Manager) has been completely revised and now offers a consolidated way to use and customize libraries of fluids, pipe materials, junctions, etc.
- Warnings, errors and Design Alerts shown in the Output are now color coded and organized in a prioritized list for quick review

## Overall

- Elbows, Orifices, Venturis and Screens have been added to match AFT Fathom and aide
- in building models
- Use the NEW online Help System for centralized documentation and examples from your browser
- Customize the display names for engineering units of measure to accommodate language or notation differences
- Convert Shear Rheometer data for Power Law and Bingham Plastic viscosity models with a helpful visual guide
- Apply the Herschel-Bulkley viscosity model for shear thinning or thickening fluids with a yield stress

## Workspace

- Contextually update Junction Special Conditions directly from the toolbar
- Reset Pipes and Junctions as 'Same as Parent Scenario' during specification from the Workspace menu

## Junctions

- The Vacuum Breaker junction has been renamed to an Air Valve
- Submerged pumps can be defined using surface pressure and depth
- Valve transients can be specified as open percent vs time

## Output

- Design Alerts are grouped together on their own tab in the General Output section for easy identification
- Save time with enhanced Output window data loading speed

## Other

- Multi-scenario graphs can now be plotted with scenarios having different pipe sectioning and time steps
- Batch runs of multiple scenarios now report the number of Warnings and Design Alerts in each Scenario
- Run batch runs "silently" in the background to minimize interruptions as each scenario completes
- Search for text in Pipe and Junction Notes, useful for component specifications or intended operating conditions
- Right-click a pipe or junction table row to quickly find the object on the Workspace

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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 pipe acoustical frequencies to avoid resonance from excitation, especially in systems with positive displacement pumps.

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