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Applied Flow Technology

AFT Impulse 7	AFT Impulse 6	AFT Impulse 5
Import from CAESAR II neutral files and Piping Component File (.pcf) as well as import/export model data from an EPANet file	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	Completely redesigned user interface with tabbed window access and new transparent icons
Enhanced Excel integration such as: Output 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	Language choices for German and Chinese, in addition to French and Spanish, for all output, graphs and menus	Improved printing features includes use of company logo, user comments and titles, as well as graphical borders on all printouts
Isometric grid drawing on the Workspace	New Force Summary report available in the output showing all applied force sets	New Quick Access Panel includes access to Scenario Manager
Made rotodynamic (centrifugal) and positive displacement pumps data entry clearer on the Pump Property window	New dynamic check valve modeling and Thorley method for estimating reverse velocity through check valves at closure	New mapping feature flyout allows birds-eye view of model and navigation
Increased the speed in which forces are calculated and reported	New Turbine junction for hydroelectric applications	Enhanced relief valve modeling, including Danflo and Grove Flexflo
Finite tank option for the Reservoir junction	GIS shape files can be imported to create a model	Discrete Gas Cavity model added to calculate cavitation
Additional parameters available for Transient Junction graphs	Improved search capability includes searches for pipe and junction notes, names and numbers	Handle varying ambient pressure with elevation allows for better understanding of gage pressure on submerged pipes at different depths

Ready to access these new features? Email info@aft.com

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Full list of **New Features** you can use in AFT Impulse™ 7

General Interface
- Set defaults for your general unit system, language, pipe material and other preferences in the Startup Control window
- Import data from Excel using keywords
- Use Excel to make changes to multiple scenarios at once
- Load large models faster than before
- Easily add additional rows to the data tables (like Cv vs. Open Percent, etc.)

Model Import
- Import from a CAESAR II neutral file
- Import from a Piping Component File (.pcf)
- Import or export a EPANET file

Excel Export
- Export output using the new Excel Export Manager
- Export single values, columns, rows or entire output tables
- Export data from a graph
- Define specific starting cells and target worksheets
- Ability to include headers and units
- Automatically export data after the model is run or during a batch run of scenarios
- Complete your exports while running batch scenarios

Standards and Codes
- View a summary of the Codes & Standards used within the models
- Standard references are updated to current versions where applicable

Workspace
- Draw using an isometric grid
- Alter background opacity levels to make annotations stand out
- Zoom and pan with new keyboard shortcuts
- Draw attention to pipes with fittings & losses through symbols

Pipes
- Calculate buried pipe wave speed
- Enter intermediate pipe elevations as length from the pipe beginning
- Added many EN and DIN pipe standards to the available pipe materials
- Increased ability to select pipe materials in the Database Manager

Forces
- Improved method of saving imbalanced force calculations during a run to improve output display and graphing flexibility
- Exit differential forces

Junctions
- Improved user interface for defining rotodynamic (centrifugal) and positive displacement pump data in the Pump Property window using automatic periodic PD pump flow calculation
- Improved user interface for four quadrant modeling for pumps
  - Specify trip and startup cases
  - Enhanced pump inertia estimation and specific speed selection
- Variable speed and controlled pumps can trip during a transient
- Ability to model Pumps as Turbines (PAT)
- Enhanced Check Valve Property window
  - Added dimensional and more non-dimensional closing velocity estimation profiles
  - Added translating nozzle/plug force balance type
- Pre-defined Cv vs. Open Percentage profiles for valves
- Use a finite tank option for Reservoir junctions
- Use a time delay for Vacuum Breaker Valves
- Ability to define a relief valve effective orifice based on API 526
- Can now set Control Valves default for Always Control Never Fail

Output
- Create Design Alerts by simply right-clicking on cell or column header to create a Design Alert, add to the Excel Export Manager, copy data, find on the Workspace, sort and change units
- Display reports in Portuguese

Model Data
- Right-click a pipe or junction table row to quickly find the object on the Workspace

Graphs
- Includes new junction parameters (e.g. pressure drop)

Visual Report
- Toggle between image and data options in a user-friendly interface
- Utilize color animation to visualize parameter changes over time

Fluids
- Includes a new extensive fluid database NIST REFPROP which supports pure fluids and mixtures

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