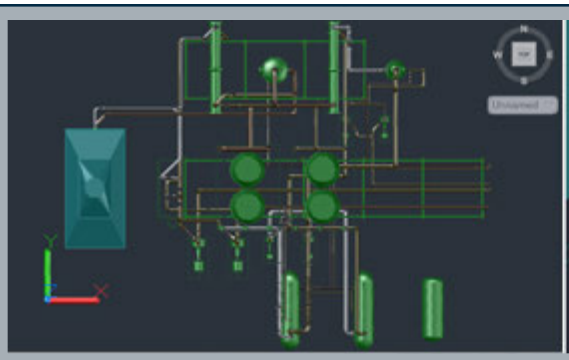
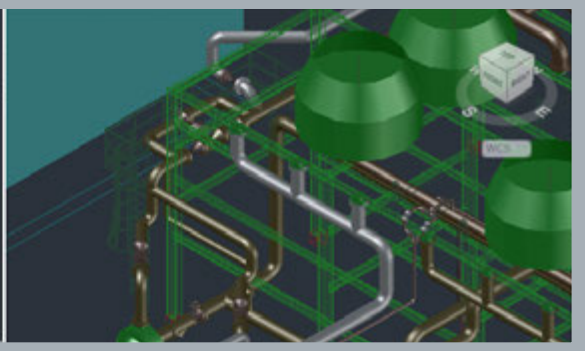
PRODUCT DATA SHEET

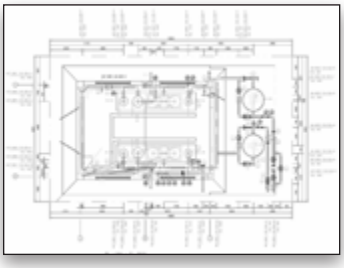




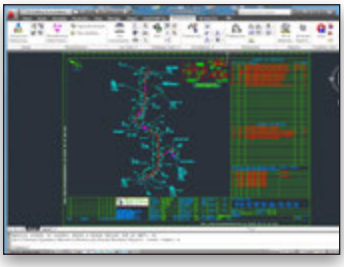
# AutoPLANT® Piping V8*i* (SELECTseries 4)

## AutoCAD-based Piping Design and Modeling

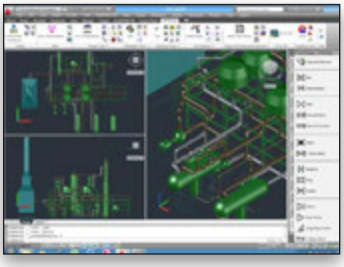
AutoPLANT® Piping V8*i* is a spec-driven, advanced 3D piping design and modeling application. It is easy to use and customize, providing interactive routing and placement in an intelligent 3D environment.



*Produce orthographic drawings in single and double line with visible centerlines.*



*Automatically create piping isometrics and spool drawings from a 3D model.*



*Route and place piping components in a 3D environment.*

### 3D Modeling Enhances Quality

AutoPLANT Piping V8*i* represents intelligent plant components in 3D models. Components and drawing controlled data are dynamically linked to a shared project database, which can be used to modify and revise the component data or generate project reports.

### Specification Driven Ensures Design Compliance

AutoPLANT Piping V8*i* maximizes quality by ensuring compliance with design criteria. Components placed in a design model are intelligent parametric objects. AutoPLANT Piping includes hundreds of catalogs representing industry standards (including ANSI and ASME) or manufacturer specific components (such as Crane and Ladish).

### Piping Design for Multiple Industries

AutoPLANT Piping supports a variety of pipe designs for different industries through modules for ductile iron, high purity, plastic, lined, and Victaulic components and is the first piping design software to support jacketed pipes. Additional modules support HVAC, conduit, and instrumentation for more robust plant design.

### 2D Orthographic Drawings

AutoPLANT Piping produces 2D orthographic drawings with options including single or double line with visible centerlines. AutoPLANT Piping supports the creation of orthographic drawings using paper-space view ports and the export of 3D model data to produce finished drawings. Drawing Flattener produces flat, two-dimensional drawings including elevations, plans, and sections from the 3D model.

### Automatic Piping Isometrics

AutoPLANT Piping enables engineers to automatically create isometric drawings with dimensional, annotation, and title block data. Advanced features enable the generation of weld numbers, spool numbers, and center of gravity reporting on the isometric drawing. Export to ISOGEN and AutoPLANT Isometrics V8*i*.

### Flexible Operation Automates Tasks

Component placement is intuitive and common, repetitive tasks are automated. Whether placing adjacent piping and components in congested plant areas or routing over large areas, automatic placement and orientation maximize productivity.

The AutoPLANT suite has always been easy to administer and operate. Project Administrator and other tools make the creation and configuration of your project easy and fast.

### AutoPLANT and Bentley Navigator Speed Design While Improving Results

Bentley Navigator supports a tightly integrated project environment. The ability to distribute early 3D models to multiple stakeholders, have those team members dynamically mark-up edits, changes, etc., and feed that information back to the designer in an accurate and timely manner is critical to project success. Because Bentley's models are intelligent, all tag information is shared between the two applications, so Bentley Navigator users can select a component and see all details the designer has defined. Reviewers can use Bentley Navigator to mark up a model and send comments directly back to the designer to review in AutoPLANT Piping – providing an extra level of design review and an increase in project speed and accuracy.

Designers gain an added advantage with AutoPLANT Piping and Bentley Navigator. They can sync an AutoPLANT Piping view to Bentley Navigator to see piping within the context of the full plant model, finding and resolving more clashes and optimizing layout to save time and money during construction.

### Software Integration Streamlines Workflows

AutoPLANT Piping works seamlessly with other Bentley plant design and data management applications via the common, shared plant project database. The 3D piping model is integrated with 2D data using Bentley Datasheets, AutoPLANT P&ID, Bentley Data Manager, or Bentley Instrumentation and Wiring. Powerful validation tools verify the consistency and completeness of the piping design and the P&ID. Integration of the Bentley plant project database with plant and business systems makes the most of valuable information investments.

## System Requirements

**Processor:**
Intel Core i7, Intel Xeon, AMD Phenom, or AMD Operton

**Operating System:**
Microsoft Windows 7 (32 or 64 bit) Enterprise or Ultimate Edition

**Memory (RAM):**
4 GB for 32-bit Windows 7, 8 GB (minimum) for 64-bit Windows 7

**Graphics Card:**
1 GB Microsoft Direct3D-capable workstation-class graphics card)

**Disk Space:**
2 GB available

**Software:**
- AutoCAD 2012 (32 or 64 bit)
- Microsoft Office 2010 Professional (32 or 64 bit)
- Microsoft SQL Server 2008 R2 Enterprise Edition

## Find out about Bentley at: www.bentley.com

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**Global Office Listings**
www.bentley.com/contact

# AutoPLANT Piping V8*i* At-A-Glance

### Component Features
- Standard AutoCAD commands (move, stretch, copy, and more)
- Modular menu layout groups components together by type (jacketed pipes, HVAC, cable tray, conduit, instruments, plastic piping, ductile iron, high purity, and tubing)
- Flexible placement features
- Fitting-to-fitting and automatic routing
- Relative placement from a component or known point (wall, column, etc.)
- Alignment to intersection with ports on other components
- Insertion from any point on a component
- Automatic alignment with ports of connected components
- Items can be inserted into an existing pipe segment
- Configurable pipe size and/or pipe spec functionality
- Assemblies can be created and inserted
- Single or double lines for piping representations
- Single-line components display correctly in all views

### Multiple Piping Modules
- Industry-specific piping modules
- Ductile iron, high purity, plastic pipe, lined pipe and Victaulic components
- HVAC, conduit and instrument modules
- New jacketed piping module

### Specification Driven
- Over 100 component catalogs, plus example specs included
- SpecGen quickly creates custom specs from scratch or from shipped catalogs
- Specifications define automatic bend, flange, and branch selections
- Powerful Spec Browser application provides spec-driven menus

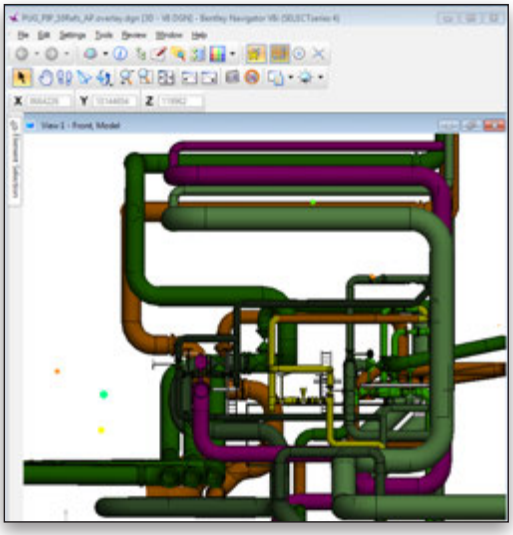
### Work Sharing and Drawing Creation
- Save and restore groups of reference drawings (Xref's)
- Save and restore section views for ease of design or drawing production
- Customize annotation features to read any component data (even from reference drawings)
- Annotate in paper-space or ModelSpace
- Place automatic dimension "nodes" at key points
- Generate automatic piping isometrics from the 3D model
- Represent piping as single or double line

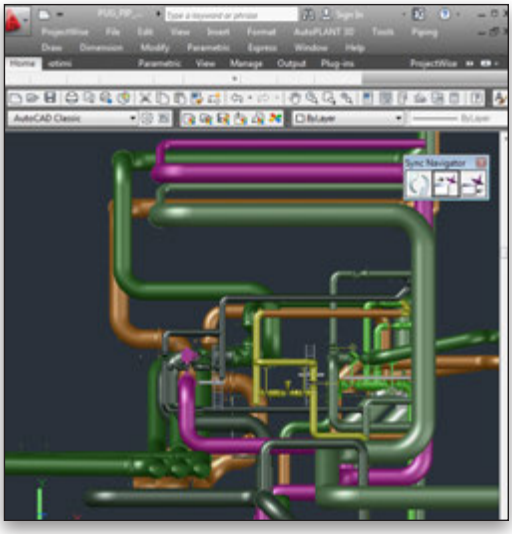
### Integration
- Import and export piping components via Bentley's Plant Exchange Format (PXF) for use with applications such as Bentley AutoPIPE V8*i* stress analysis software and AutoPLANT Isometrics V8*i*
- Exchange and review read-only, open design data via the Bentley i-model format
- Use Bentley Navigator for design review, interference detection, schedule simulation, and more
- Manage your project design data and drawings via integration with ProjectWise Integration Server
- 2D/3D interface places items defined in the project by other applications such as AutoPLANT or OpenPlant P&ID

### Customization Tools
- New component types can be created using comprehensive Class Editor
- Project configurations can be managed through a highly intuitive graphical user interface
- Custom drawing routines created using the AutoPLANT Script Editor

### Material Reporting
- Powerful query mechanism allows selection by any properties or fields
- Project reports generated from any project models
- Placement of bill of materials (BOM) directly on drawing
- Generation of accurate quantities of all components (including pipe cut-lengths)
- Report to HTML, spreadsheets, documents, and data sources
- Complete customization of reports and BOM

### Synchronized Design with AutoPLANT and Bentley Navigator
- View components changed in AutoPLANT from Bentley Navigator with one click
- Zoom, pan, and orbit in either application and then push the view to the other
- Easy, quick, real-time review of intelligent models (images and tags)





*Synchronized views in AutoPLANT Piping and Bentley Navigator improve the review process.*

Bentley
Sustaining Infrastructure