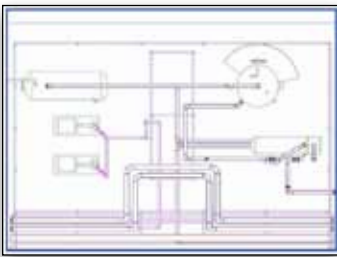


AutoPLANT® Piping V8i

AutoCAD-Based Piping Design and Modeling Projects

AutoPLANT Piping V8i is a “spec-driven,” 3D piping design and modeling application that incorporates advanced routing and editing features for process plant design. Built on powerful, object-oriented technology, it is easy to use and customize, allowing you to interactively route and place piping components in an intelligent 3D environment.



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



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



Route and place piping components in a 3D environment.

3D Modeling Enhances Quality

AutoPLANT Piping V8i provides 3D modeling capabilities through ObjectARX technology, using 3D objects to represent intelligent plant components. Components and drawing controlled data is dynamically linked to a shared external project database. The database information can be used to generate project reports, or to globally manipulate and revise the descriptive component data.

Specification Driven Ensures Design Compliance

AutoPLANT Piping V8i utilizes a “spec-driven” design approach, which maximizes quality by ensuring compliance with applicable design criteria. Dynamic database links ensure correlation between the graphical and descriptive data in the model.

AutoPLANT Piping V8i includes hundreds of catalogs representing either industry standards (such as ANSI/ASME) or manufacturer specific components (such as Crane & Ladish). Components selected from the specification and placed in a design model are parametric objects with a high degree of intelligence.

Flexible Operation Automates Tasks

Component placement in AutoPLANT Piping V8i is an intuitive process that automates common and repetitive tasks. Whether placing adjacent piping and components in congested plant areas or routing over large areas, automatic component placement and orientation options reflect standard design conventions and maximize productivity.

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

Powerful Editing Facilitates Change, Reuse

AutoPLANT Piping V8i is designed with the realities of the project in mind. Sections of piping can be edited to change the size or specification and commonly used assemblies can be saved and inserted in other models or on other projects.

2D Orthographic Drawings

The requirements for 3D model visualization are often different than the presentation of the same components to industry standard 2D plans and sections. AutoPLANT Piping V8i produces 2D orthographic drawings with a variety of options including single or double line with visible centerlines. AutoPLANT Piping V8i supports the creation of orthographic drawings (plans, elevations and sections), using paper space view ports and exporting 3D model data to produce finished drawings. Drawing Flattener produces flat, two-dimensional drawings including elevations, plans and sections from the 3D model. Suitable for fast edits on construction drawings.

Automatic Piping Isometrics

AutoPLANT Piping V8i enables engineers to automatically generate piping isometric drawings complete with dimensional, annotation and title block data. Advanced features also enable the generation of weld numbers, spool numbers and center of gravity reporting on the isometric drawing. The Import/Export feature supports output to ISOGEN and AutoPLANT Isometrics V8i for the automatic generation of piping isometrics.

Reporting Engine to View Data

A powerful report engine gives you a view into all your project data with output to industry standard formats such as HTML, Excel, Word and many common database formats. Configuring report formats to suit project requirements is easy using Crystal Reports.

Software Integration Streamlines Workflows

AutoPLANT Piping V8i works seamlessly with other Bentley plant design and data management applications via the common, shared plant project database. The 3D piping model is automatically integrated with the schematic 2D data created using the Bentley Datasheets, P&ID, Data Manager or Instrumentation & Wiring applications. Powerful validation tools verify the consistency and completeness of the piping design compared to the P&ID. Integration of the Bentley plant project database with your plant and business systems makes the most of your valuable information investments.

Recommended Configuration

Processor

Intel® Core™ i7 Extreme, Intel® Xeon® 5600

AMD Phenom™, AMD Phenom™ II

Operating System

Microsoft® Windows 7 (32 or 64 bit) Enterprise or Ultimate Edition

Memory

4 GB minimum for 32-bit Windows 7, 8 GB minimum for 64-bit Windows 7

Disk Space

2 GB minimum free hard disk space

Video Graphic Card

1 GB Microsoft OpenGL® or Direct3D® capable workstation-class graphics card

Software

- AutoCAD 2011 (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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AutoPLANT Piping V8i At-A-Glance

Component Features

- Use standard AutoCAD® commands (move, stretch, copy etc.)
- Modular menu layout groups components together by type (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 other known point (wall, building column, etc)
- Alignment to intersection with ports on other components
- Insert from any point on a component (such as the branch, center, or run of a tee)
- Automatically aligns to ports of connected components
- Insert one or more items into an existing pipe segment
- Change pipe size and/or pipe spec functionality
- Create and insert assemblies of components
- Display single or double line representations
- Single line components display correctly in all views

Specification Driven

- SpecGen tool quickly creates custom specs from scratch or from shipped catalogs
- Ships with 100+ component catalogs, plus example specs.
- Spec defines automatic bend, flange, and branch selections

- Use the spec as a menu using the powerful "Spec Browser" application

Work Sharing and Drawing Creation

- Save and restore groups of reference drawings (Xrefs)
- Section views saved and restored for ease of design or drawing production
- Customizable annotation features read any component data (even from reference drawings)
- Annotation placed in paperspace or ModelSpace
- Automatic dimension "nodes" placed at key points
- Automatic piping isometrics from the 3D model
- Represent piping as single or double line. Centerlines are displayed even when hidden lines are removed.

Integration

- 2D/3D Interface places items defined in the project by other applications such as AutoPLANT or OpenPlant P&ID
- Import & Export piping components via Bentley's Plant Exchange Format (PXF) for use with applications such as Bentley AutoPIPE stress analysis software and AutoPLANT Isometrics V8i
- Exchange with 3rd party applications 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

Customization Tools

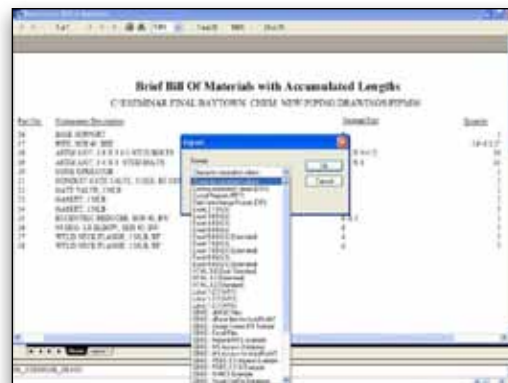
- New component types can be created using comprehensive Class Editor
- Project configurations can be created or modified through a highly intuitive graphical user interface
- Custom drawing routines created using the AutoPLANT Script Editor

Material Reporting

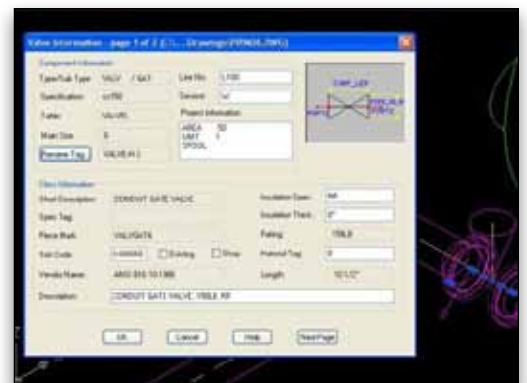
- Powerful query mechanism allows selection by any properties or fields
- Project reports generated from any or all project models
- Placement of bill of materials (BOM) table directly on drawing
- Generation of accurate quantities of all components (including pipe cut-lengths)
- Reports to a number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

Publish i-models from within AutoPLANT

- Create AutoPLANT i-models directly from the AutoPLANT Equipment interface
- To create project milestone archive drawings including embedded project data
- Review 3D design models with Bentley Navigator
- Publish to OpenPlant Isometrics Manager, via the OpenPlant Schema, to generate piping isometrics



Report function enables you to generate a bill of materials



Components placed in a design model are spec driven with a high degree of intelligence