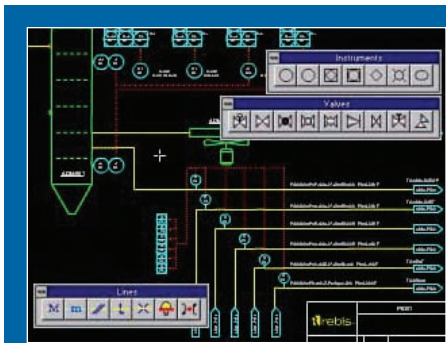


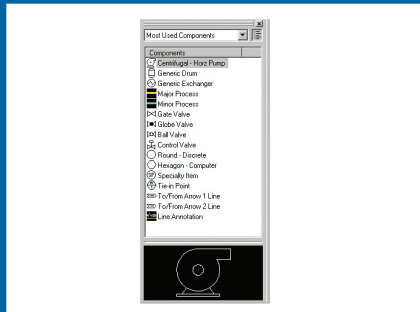
BENTLEY® AUTOPLANT® P&ID™

CREATION OF INTELLIGENT PLANT SCHEMATICS TO SAVE TIME AND IMPROVE PROFITABILITY

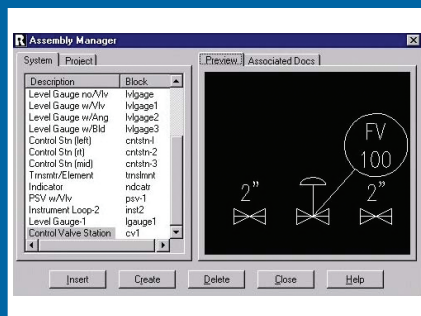
The AutoPLANT P&ID module provides organizations with an indispensable tool for creating intelligent plant schematics. Utilizing AutoCAD with an external relational database environment allows engineers to learn more about their plant design in a fraction of the time that is needed to study hundreds of layout drawings or 3D models.



P&ID uses advanced parametric drafting routines to speed up drawing generation.



Many advanced drafting utilities are included in the standard P&ID module.



P&ID assembly manager dialog box.

AutoPLANT P&ID is a cost-efficient application, such as it reduces the design and documentation time for capturing process information for system design and plant studies, HAZOP studies, ensuring compliance to OSHA 1910 and ISO standards. Through its scalable design, AutoPLANT P&ID is suitable for large, mid-sized, and small engineering companies and plant operators, providing a key tool for the life cycle design and documentation of process plants.

Data Storage Options

A range of data storage options meets the needs of your project: Microsoft Access or MSDE (Microsoft SQL Server Desktop engine) for smaller projects and Microsoft SQL Server or Oracle for larger projects requiring a more robust storage engine. This external data storage feature facilitates information sharing between multiple users in the CAD environment and between the AutoPLANT Data Manager, AutoPLANT Instrumentation & Wiring, AutoPLANT Datasheets, and AutoPLANT Hookups modules of the Process and Instrumentation Workgroup.

Drafting Abilities

Advanced parametric drafting routines speed up drawing generation. Symbol Manager, icon menus, toolbars, dynamically updated dialogs, pick-lists, and other advanced user interface features make the system easy to use and learn. Many advanced drafting utilities are included in the standard AutoPLANT P&ID module, including automatic line break/mend, line tag update, instrument bubble break/mend, and attribute display controls.

Symbols and Assemblies

AutoPLANT P&ID includes over 400 symbols that conform to ISA standards and a complete

set of piping and instrument line types, such as major, minor, pneumatic, and electric. DIN line styles are also supported. A library tool supports symbol customization and management. New symbols can be easily created, added to the Symbol Manager and intelligently linked to the database.

Import/Export Capabilities

AutoPLANT P&ID drawings can be imported into a project environment with full consistency checking. In addition, P&IDs created in a project-wide environment can be exported as a stand-alone drawing, including all related data files.

Consistency Checker

The Consistency Checker provides interactive checking of connectivity and consistency, such as branch lines that exceed the size of a header or valve sizes matching associated pipe runs. Interactive viewing and printed reports are also available.

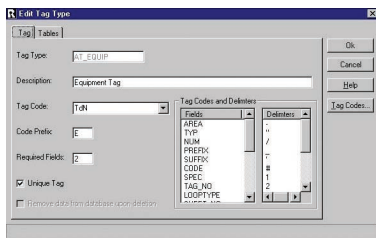
Tag Register

AutoPLANT P&ID maintains a register of unique tag numbers, whether in internal mode or a project environment. The system automatically alerts you when duplicate tag numbers are encountered and prompts you for a new tag if necessary. Automatic tag incrementing and user-defined validation tables enforce tag-naming conventions.

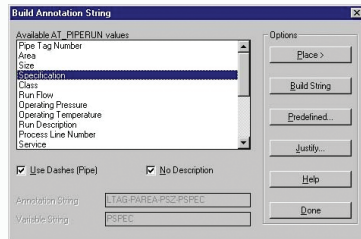
Process/Run Hierarchy

AutoPLANT P&ID employs the STEP/ISO design hierarchy of process with multiple runs, run size, and specifications. The Process Line Manager tool displays these relationships and enables you to merge runs into different pipe networks.

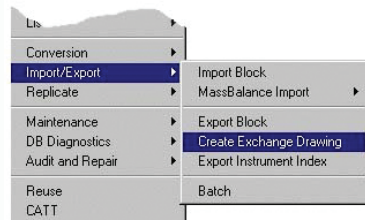
BENTLEY AUTOPLANT P&ID AT-A-GLANCE



P&ID edit tag type dialog box.



P&ID build annotation string



P&ID drawings can be imported into a project environment with full consistency checking.

BENTLEY AUTOPLANT P&ID SYSTEM REQUIREMENTS

- Processor: Intel Pentium-based PC
- Operating System: Windows 2000/XP Professional SP 1 or 2
- Software: AutoCAD 2004/2005/2006/2007/2008
- Memory: 128MB RAM
- Disk Space: 256 MB RAM

Compatibility with ISO15926

- The AutoPLANT P&ID project data can be exported in an ISO 15926 compatible format for storage in Bentley's ProjectWise Lifecycle Server or for export to any other application mapped to the ISO15926 schema.

Advanced Parametric Drafting Routines

- Faster drawing generation
- Advanced user interface features for ease of use and quick learning, such as Symbol Manager, icon menus, toolbars, dynamically updated dialogs, pick lists, and more
- Advanced drafting utilities included in the standard AutoPLANT P&ID module, including automatic line break/mend, line tag update, instrument bubble break/mend, and attribute display controls

Symbol Manager

- Drag-and-drop component placement and easy right-click, context-sensitive menus for creating custom component entries

VB Data Screens

- Visual Basic dialogs for accessing component attributes
- Ability to customize or edit these dialogs to fit specific data entry needs or perform data validation functions

Specification-driven Valve Placement Functions

- The AutoPLANT P&ID Valve Spec Mode allows users to tag valves based on valve specifications
- Automatic placement of the valves on a P&ID with the correct end conditions

Exchange Drawings

- Ability to send drawings out for design review or editing, then import them back into the project environment
- Automatic updating of the project database with any modifications made to the data

Organized, Consistently Accurate Drawing Files

- Intelligent Line Annotation for updating line attributes at all occurrences on the drawing
- To/From Control for automatic lookup and reuse of To/From data across multiple drawings; an active list of open To/From arrows can be used to initiate line routing
- User-definable tag formats can include any field in a table to ensure accurate, unique tag numbers across multiple drawings
- Ability to manually define tags or use the AutoPLANT Data Manager Interface to define tagging conventions
- Creation, insertion, and deletion of assemblies across multiple drawings
- Ability to preview assemblies prior to insertion
- Ability to instruct assemblies to break a process line where they are inserted

ABOUT BENTLEY

Bentley Systems, Incorporated provides software for the lifecycle of the world's infrastructure. The company's comprehensive portfolio for the building, plant, civil, and geospatial verticals spans architecture, engineering, construction (AEC) and operations. With revenues now surpassing \$400 million annually, and more than 2400 colleagues globally, Bentley is the leading provider of AEC software to the Engineering News-Record Top Design Firms and major owner-operators, and was named the world's No. 2 provider of GIS/geospatial software solutions in a recent Daratech research study.

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