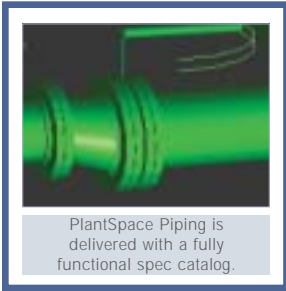


PLANTSPACE® PIPING™

The v8Generation

The complete yet flexible 3D pipe modeling solution



PlantSpace® Piping™ provides fully parametric, specification-driven modeling, as well as multi-user model control functions that allow the design team to effectively manage the entire 3D design process on a component basis. The solution is scalable, effective for single-user installations or large, multidisciplinary projects.

Part of Bentley's plant product line, PlantSpace Piping is part of an overall solutions suite for process and discrete manufacturing industries, including automotive, biotech, chemicals, electronics, food and beverage, mineral and metals, oil and gas, pharmaceutical, power generation, pulp and paper and shipbuilding.

Conceptual Design By Drafting the 3D Model

PlantSpace Piping is designed to suit the work process of projects in cases where few design parameters are determined up front. Piping is easily routed as a preliminary 3D design. This conceptual design can be reviewed immediately in real-time using Bentley® Navigator™. Bentley® Interference Manage™ can detect physical interferences, even at this early stage in the design.



Effective Design Changes

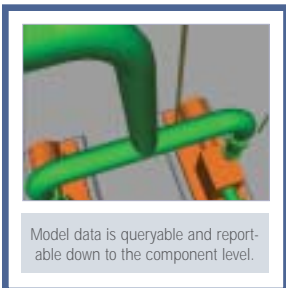
Design information such as specs, sizes, systems and line numbers can be queried and changed before the detail engineering is started. Individual components, lines or even design areas are easily copied and modified. Parts of previous projects can be reused and assembled into new designs.

Interactive Design Checks

Features provided as part of the Check Design functionality further augment the automated checking of modeled components by evaluating a set of user-defined rules and validating each component. Its intuitive nature guides the user through the decision making process as to which component types are valid for the design and any given point in the project, thus reducing the chance for error and field rework and ensuring a level of consistency in a collaborative design environment.

Specification Generation

SpecMaker provides an interactive selection of components from the PlantSpace Piping catalog. A graphical user interface enables you to pick component types, automatically displaying the available sizes and sub-types.



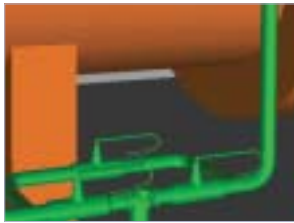
Fittings and Components

PlantSpace Piping contains a complete range of piping components in both imperial and metric sizes. The attributes associated with each component can be modified. The dimensions of pipe fittings are controlled by dimensional tables included in the component catalog. Tables based on ANSI standards are included with PlantSpace Piping. A European standard is also included and additional standards can be easily added.

Data Configuration Management

Work state controls can be applied to modeled components to ensure your work process consistency and repeatability. User-defined schemas are completely configurable as to which attributes can be applied by various Group and Role descriptions at any work state change. This control process is a must for projects where regulatory or management of change requirements are essential.

PLANTSPACE PIPING AT-A-GLANCE



PlantSpace Piping creates intelligent models that produce useable deliverables.

Specification Creation

- Interactive selection of components from the PlantSpace Piping catalog with SpecMaker
- Ability to pick component types via a graphical user interface
- Automatic display of available sizes and sub-types

Choice of Design Method

- Ability to input component by component or by routing via intelligent line strings

Interference Detection

- Accessibility to and interoperability with Bentley Interference Manager
- Graphical review of detected interferences
- Automatic zoom on components involved in an interference

Stress Analysis

- Piping stress analysis interface for Bentley® AutoPipe® or CAESAR II

Material Take-Offs (MTO)

- Generation of automatic material take-offs
- Generation of configurable reports direct from the piping model

PLANTSPACE PIPING SYSTEM REQUIREMENTS

- Processor: Pentium® II 500MHz or better
- Operating System: Windows® XP Professional SP1, Windows 2000 SP 3 or Windows NT® 4.0 SP6a
- Software: Microsoft Internet Explorer 5 or better, MicroStation v7 or v8, MicroStation TriForma Engineering Configuration v7 or v8
- Databases: Oracle® ODBC driver v9.2.0.2.0 for Oracle 9i™ (or Oracle 8i™) projects or Microsoft Data Access Components (MDAC) 2.7 for SQL Server Projects
- Memory: 256MB (more memory typically results in better performance)
- Disk Space: 75MB minimum free disk space

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