

Solid Edge P&ID Design

Streamlining the P&ID workflow process

Benefits

- Intelligently design pipe systems using automated processes
- Quickly create piping and instrumentation diagrams
- Access pipe specifications at any design stage
- Implement efficiently and react with flexibility
- Generate lists, reports, BOMs and intelligent PDFs
- Support industry standards

Features

- Automated line data formula editor
- Intelligent database
- Design checks
- Smooth and effortless transfer of data between software modules
- Arc control for process security
- Integrates with Solid Edge Piping Design

Summary

The ability to accurately and rapidly create piping and instrumentation diagrams (P&ID) is crucial for meeting company and international quality standards. Siemens Solid Edge® software for P&ID design supports project managers with a full toolbox of traceability benefits. Using Solid Edge P&ID Design, users can easily capture the design intent and logic in a 2D schematic. With the addition of 3D computer-aided design (CAD) or direct integration with Solid Edge Piping Design software, users can develop 2D P&IDs into a comprehensive 3D model of a process plant.

Solid Edge P&ID Design offers many features and capabilities to streamline the workflow process. During the design process, the software makes it easy to create pipe lines and add symbols by accessing an included database. Pipe specifications can be accessed at any stage of the design process.

Solid Edge P&ID Design also makes it easy to add/maneuver components within a diagram and assign unique tag numbers to fully define components. Users can generate lists, reports, bill-of-materials (BOM) and intelligent PDFs when needed.

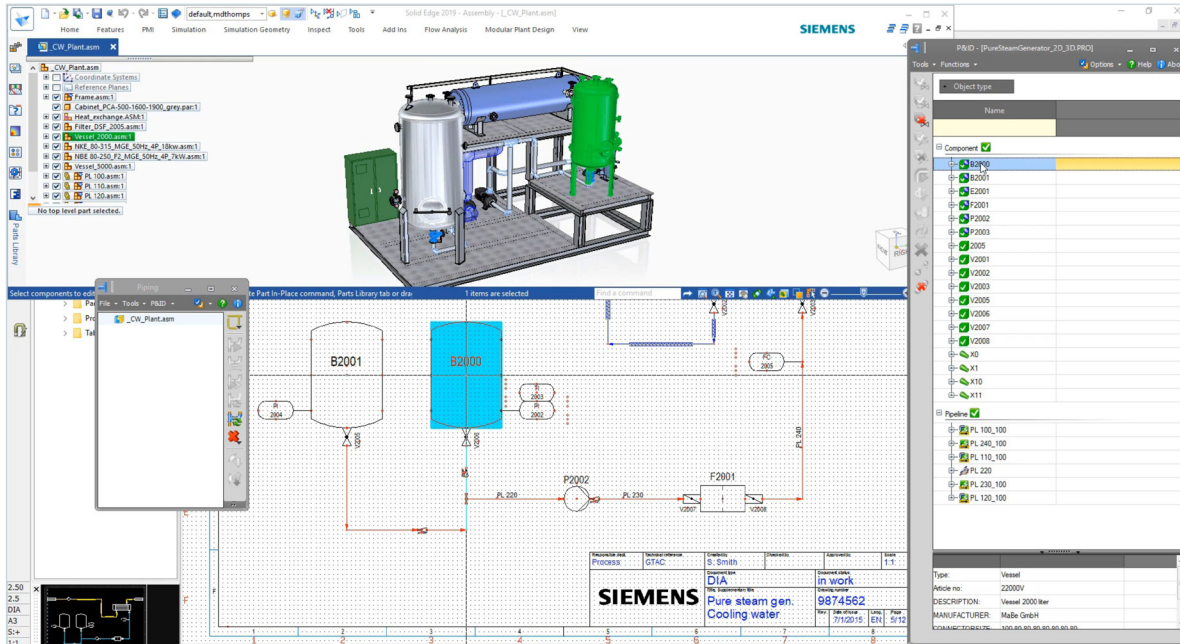
An important feature for process design, Solid Edge P&ID software allows the user to influence the display of line intersections, enabling process security. Line priorities work as an extension of the active representation of the crossing lines setting so that users can fully customize the display of crossing unconnected lines.

The software supports American National Standards Institute/International Society of Automation (ANSI/ISA), National German (DIN) and European Norm International Organization for Standardization (EN ISO) standards to meet strict governing requirements.

Automation provides user flexibility

Solid Edge P&ID Design includes a formula editor for line data fields, enabling users to automatically fill in certain line values using information from other data fields available in the project. Automation assists in ensuring correct data as entries are not required to be typed in manually. Easy modification is fast even for new users.

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Solid Edge P&ID Design integrates well with Solid Edge Piping Design, allowing cross highlighting between modules.

From 2D to 3D design

Although Solid Edge P&ID Design is a standalone 2D solution, it can be integrated with Solid Edge Piping Design software or used with Solid Edge 3D design products. The included to-do list functionality provides an online or integrated connection between the P&ID and a 3D assembly. In the to-do list, the available definitions created in Solid Edge P&ID Design can be transferred to a Solid Edge assembly where it controls automated 3D pipeline creation.

Extending value

Solid Edge is a portfolio of affordable, easy to deploy, maintain and use software tools that advance all aspects of the product development process – mechanical and electrical design, simulation, manufacturing, technical documentation, data management and cloud-based collaboration.

Minimum system configuration

- Windows 10 Enterprise or Professional (64-bit only) version 1709 or later
- 8 GB RAM
- 65K colors
- Screen resolution: 1920 x 1080
- 6.5 GB of disk space required for installation

For more information, please visit:
<https://solidedge.siemens.com/en/solutions/products/3d-design/modular-plant-design/>

Siemens Digital Industries Software
[siemens.com/plm](https://www.siemens.com/plm)

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 74352-C16 5/19 A