



OpenPlant® PID

Produce and share intelligent piping and instrumentation diagrams effortlessly

OpenPlant PID is an easy-to-use, data-driven application for the rapid production of piping and instrumentation diagrams (P&IDs). You can capture and reuse information in an open format. OpenPlant PID reduces the time required to create these critical documents and enables sharing of all process information across the lifecycle of the asset.

Rapid creation of intelligent P&IDs

OpenPlant PID allows you to generate P&IDs with components verified against valid piping specifications. Computational drafting routines are used to speed drawing generation. Ribbon-based navigation and other advanced user interface features make the system easy to learn and use.

Stand-alone or integrated P&ID creation

OpenPlant PID can work as a stand-alone application for smaller projects. However, to truly unlock savings on a project, connect OpenPlant PID to Bentley iTwin® Services and PlantSight to support distributed teams, utilize iTwin Sync workflows, and track and manage changes.

A digital twin ensures consistent and up-to-date engineering information across the design phase with continuous handover into operations.

Consistent and accurate components

Component validation can be done in OpenPlant PID so you always know that drawings are consistent and accurate. You can select from one of the available persistence modes to determine when the rules are run—immediately, on a timed basis, or on user request. When a rule finds a component in an invalid design state, the component is flagged for follow up. Flagging is user-configurable to appear on the drawing in a form of your choice. Company-specific rules can be added and separated from the open data model, giving organizations the flexibility to create their competitive edge.

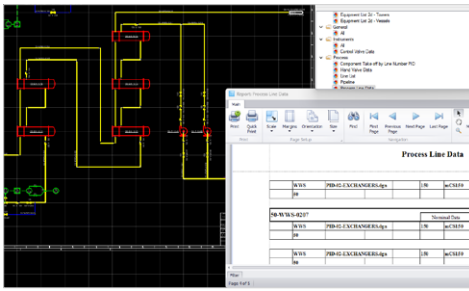
Standard symbols and assemblies

To accelerate the P&ID development process, OpenPlant PID includes a comprehensive set of industry-standard symbols for equipment, piping, instruments and instrument lines.

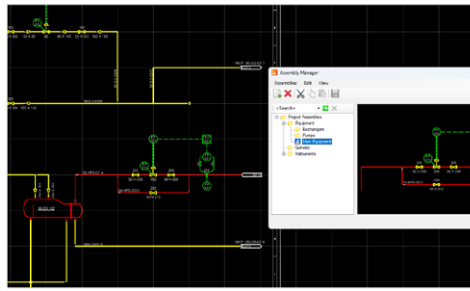
To further speed P&ID creation, OpenPlant PID includes a component management capability that supports symbol customization and readily modifies the data and tag numbers of the assembly components. OpenPlant PID supports different standards, including KKS. Additional content will continue to be added based on user requests and industry requirements.

Increased project overview and insight

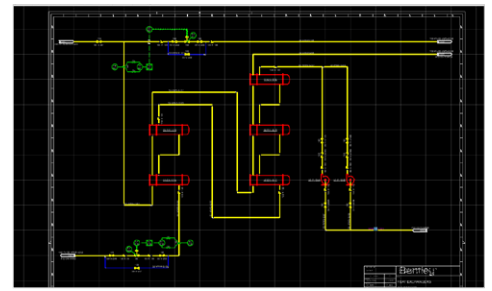
Data integrity and data access are becoming more important to clients as standards compliance becomes a bigger business driver. OpenPlant PID includes a powerful browser that allows you to see a full list of all components in the drawing and their relationships to one another. It also allows you to visualize and edit any of the data associated with the components on the drawing. Valve lists, line lists, instrument lists, equipment lists, and more are all key pieces of information for project scope and costing. OpenPlant PID provides a robust reporting system that includes the ability to export to Microsoft Excel. Detailed project-wide reporting is available through iTwin Services and PlantSight web capabilities.



The intuitive reporting tool produces drawing-specific reporting or project-wide reporting from one simple interface.



Piping and component assemblies accelerate P&ID creation.



Ribbon-based navigation and advanced user interface features make the system easy to learn and use.

System requirements

Minimum: Windows 11 or 10 (64 bit)/Windows 11 (24H2) or Windows 10 (21H2), Windows Server 2019, Windows Server 2022 (64 bit) Intel® or AMD® Processor 2.5 GHz or greater, 16 GB memory
Recommended: 32 GB memory

OpenPlant PID at-a-glance

General/system features

- Support for side-by-side installation of major versions of rapid P&ID creation
- Increase usability with an easy-to-use ribbon interface to access needed features and functionality
- Advanced drafting utilities include standard preferences for piping, such as end conditions and components will automatically break or mend piping when inserted or removed
- Component replacement feature swaps out similar type components for one another without having to delete and recreate
- Create and reuse common piping and equipment arrangements as assemblies that group components together, including in-line assemblies
 - Preview assemblies and modify data and tag numbers for the components in the assembly prior to insertion

Data management

- Engineering-orientated browser to view relationships between components and all component properties
- Element information dialogs to browse specific components or sets of components
- Consistency checking
- Rules engine for validating components based on your needs
- Rules can be used to create specification-driven P&IDs
- Web-based data management capabilities through Data Manager in iTwin give access to project data from anywhere you can connect to the internet

Advanced P&ID functions

- Intelligent annotations for lines and equipment
- Accurately reflect line attributes at all occurrences on the drawing
- Page connectors enable you to continue pipelines and runs across multiple drawings
- User-definable tag formats can include any field associated to a class to ensure drawing accuracy
- Tag Replication allows you to repeat certain processes without the need to draw it separately for each occurrence
- Create virtual instruments for existing instruments without drawing them separately for each occurrence

Bentley

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