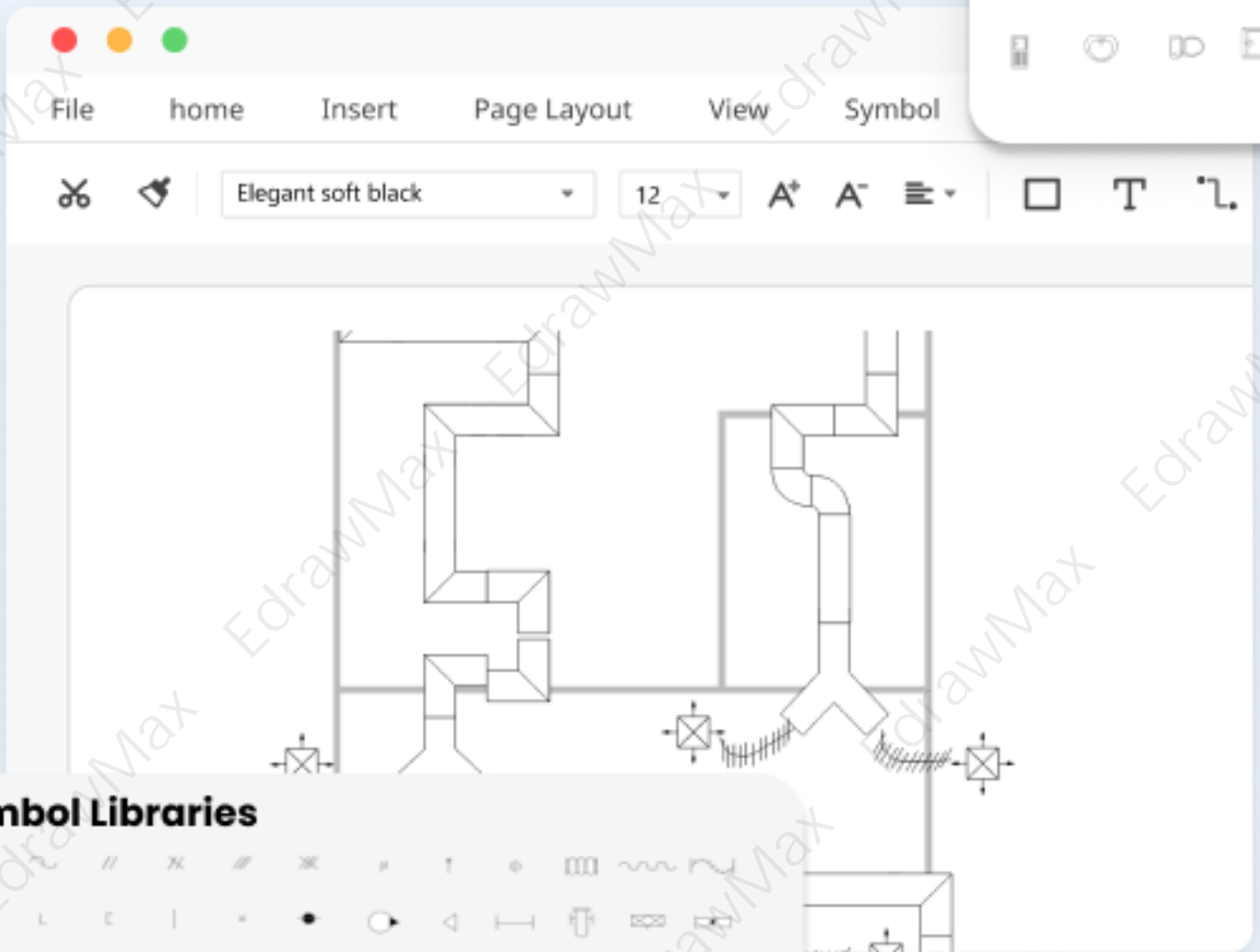
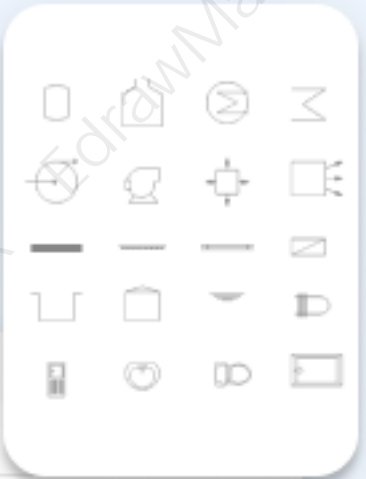
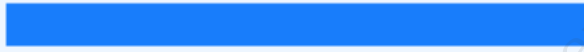


Plumbing & Piping Plan Symbols

Complete Guide



Plumbing and Piping Symbols

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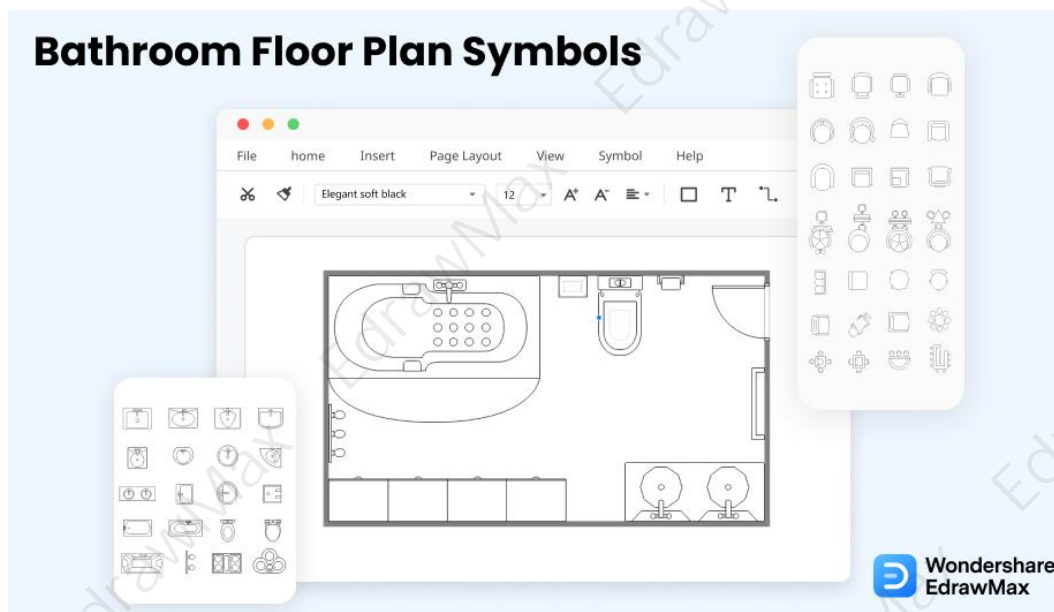
Do You Want to Make Your Plumbing & Piping Plan?

EdrawMax specializes in diagramming and visualizing. Learn from this article to know everything about plumbing symbols, and how to use or create plumbing symbols. Just try it free now!

Download EdrawMax: <https://www.edrawsoft.com/download-edrawmax.html>

A house's infrastructure is lame without a professional plumbing structure. Plumbing is done to supply water and gas throughout a building. All rooms, kitchen, washrooms, living rooms require a pipeline connection to supply water and gas. A plumbing pipeline connection is installed for supply, the entrance of clean water, and drains out waste.

A well-installed connection is considered a cause for good health because it is responsible for water cleanliness. That water is being used in daily routine. For this purpose, a professional plumbing drawing is made, and all the functions are illustrated via **plumbing symbols**. These symbols cover all sorts of plumbing tools and equipment. Here we are going to know about plumbing designs and plumbing symbols in details.



1. What Are the Plumbing Symbols

Plumbing plan¹ is connecting pipelines in the walls of a building and underground. It is done for the supply of water, provision of drainage passages, and prevention from pipeline destruction. All the rooms need water and gas connection which is only possible after a good plumbing set-up. It shows how freshwater enters and waste goes out. This process is of a very sensitive technical nature and requires a qualified architect.

An architect maps a plumbing design that comprises many **plumbing symbols**. Making a plumbing plan is now way easier because of EdrawMax. It provides a friendly interface, templates, and thousands of plumbing symbols. Not only this, but it allows customizing a template and symbol.

Use of plumbing symbols:

- Size mentioning.
- Time tracking by mentioning time on symbols.
- Adding various equipment on a map.
- Adding extra details.
- Entrance and exit of the supply connection.
- Show hot or cold water connections separately.

¹ Plumbing plan: <https://www.edrawsoft.com/plumbing-piping-design-guide.html>

Plumbing Symbols:

Plumbing drawing is connecting pipelines in the walls of a building and underground. It is done for the supply of water, provision of drainage passages, and prevention from pipeline destruction. The plumbing symbols are the basic elements to show the functions.

2. The Types of Plumbing Symbols




The **plumbing symbols** enable a designer to follow a definite step-by-step plan, preventing him from getting distracted in many unnecessary matters and steps. The plumbing connection requires timely maintenance. A map helps a plumber maintain a connection by locating equipments through Plumbing symbols mentioned on a design. Also, many buildings need plumbing inspection, and this is only possible if the Plumbing Symbols are accurately used in a map. Repairing seems easy and convenient if all the tools are illustrated on a map as Plumbing symbols because a symbol's location is preferred to avoid disconnecting the pipelines.




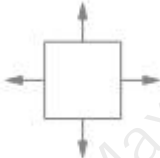




















- Plumbing Symbols
- Piping and Connection Symbols
- Wall Shell and Structure Symbols
- Doors and Windows Symbols

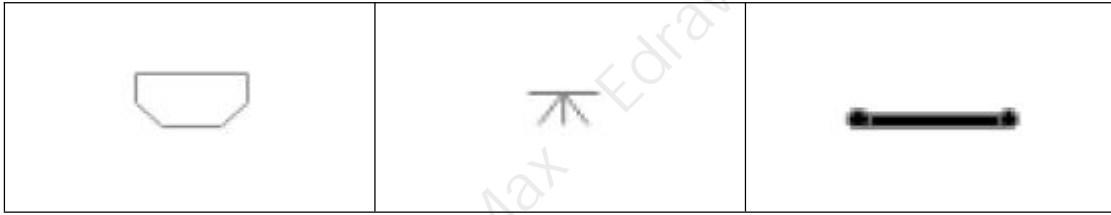
2.1 Plumbing Symbols

Plumbing is a system that conveys and directions water through pipelines installed in a house or a building. It involves using pipes, valves, plumbing fixtures, tanks, and other equipment. This equipment is used for heating and cooling, waste removal, potable water delivery. Plumbing symbols denote all the technical tools used for water and gas supply. Tools used for heating, pumping devices to raise liquid pressure, radiators emitting light, heat, or sound.

- **Boiler:** is a fuel-burning apparatus or container for heating water.
- **Heat exchanges:** used to transfer heat efficiently from one medium to another.
- **Heating coil:** a special heating device that is shaped in a spiral design.
- **Pump:** a mechanical device using suction or pressure to raise or move liquids, compress gases, or force air into inflatable objects such as tyres.
- **Heater:** a device for warming the air or water.

Bolier	Bolier 2	Heat Exchanges
		

Heating / Cooling Coil	Heating / Cooling Coil	Pump
		
Pump 2	Heater / Cooler	Heater / Cooler Horizontal
		
Radiator	Convactor	Radiant Panel
		
Radiant Panel 2	Open Tank	Closed Tank
		
Water Surface	Pipe Coil	Sink
		
Basin	Toilet	Bath
		
Basin (Side)	Toilet (Side)	Bath (Side)
		
End View	Shower Head	Towel Rail
		



Source: EdrawMax



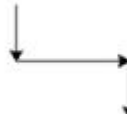

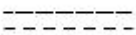


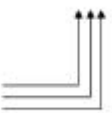













2.2 Piping and Connection Symbols




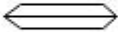

















Piping and connection symbols denote all the pipeline types and connectors. Piping or tubing is usually inserted into fittings to form connections. Pipe connectors are used to attach one pipe to another to increase the length of the pipe or to change the flow direction of a plumbing system. They divert and reduce the water supply flow and come in various sizes.






















They also cover all the electronic devices which are used for connections. Joints are symbolized here, which include "sleeve joints." The piping symbols include different pipelines such as thick or thin, hot water pipeline, and cold water pipeline. But there are two main types of pipeline connections.




















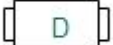

- **Major pipeline:** a long major pipe, typically underground, for conveying fluid or gas over long distances.
- **Battery limit line:** the line which shows the battery limit.
- **Electronic serial:** the serial for the electronic devices.
- **Heat trace:** a kind of system used to maintain or raise the temperature of pipes and vessels.
- **Electric signal:** an electric current or electromagnetic field used to convey data from one place to another.

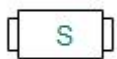













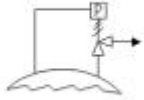
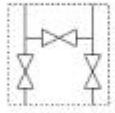
Major Pipeline	Connect Pipeline	Major Straight Pipeline
Straight Line Pipe	Process Connection	Future Line

Battery Limit Line	Side by Side	Top-Bottom
		
One-to-Many	Traced Line	Multi-Lines
		
Mid Arrow	Multi-Lines Elbow	Top to Top
		
Electrical Signal	Sonic Signal	Nuclear
		
Pneumatic Control	Pneumatic Binary Signal Line	Electric Signal Line
		
Electric Binary Signal Line	Electric Binary Signal Line 2	Hydraulic Signal Line
		
Sleeve Joint	General Joint	Butt Weld
		
Welded Connection	Mecanical Link	Soldered / Solvent

		
Double Containment	Flange	End Caps
		
End Caps 2	Breather	Drip Pan Elbow
		
Flange	Union	Socketed Weld
		
Screwed Connection	Orifice Plate	Flanged Dummy Cover
		
Electrically Bounded	Slope Requirement Line	Reducer
		
Electrically Insulated	In-Line Mixer	Separator
		
Bursting Disc	Flame Arrester	Drain Silencer

		
Exhaust Silencer	Strainer	Exhaust Head
		
Triangle Separator	Triangle Separator 2	Tundish
		
Open Vent	Syphon Drain	Hydrant
		
Swivel Joint	Expansion Joint	Hose
		
Flexible Hose	Flow Indicator	Bell Mouse
		
Removable Spool	Basket Strainer	Breather
		
Damper	Breakthrough	Orifice

		
Clamped Flange Coupling	Compensate	Coupling
		
Y-Type Strainer	Y-Strainer	Diverter Valve
		
Blind Disc	Spectacle Blind	Interchangeable Blind
		
Open Disc	Orifice Plate	Pulsation Dampener
		
Duplex Strainer	Vent Silencer	Basket Strainer
		
Cone Strainer	Detonation Arrestor	Flame Arrestor
		
In-line Silencer	Stream Trap	Desuperheater

		
Eductor	Exhaust Head	Rotary Valve
		
Expansion Joint 2	Bursting Disc	Electrical Insulated
		
Flame Arrestor	Explosion-Proof Flame Arrestor	Detonation-Proof Flame Arrestor
		
Fire-Resistant Flame Arrestor	Fire-Resistant Flame Arrestor 2	Pilot Operated Relief
		
Valve Manifold		
		














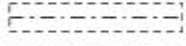

Source: EdrawMax

2.3 Wall Shell & Structure Symbols

Wall is the most common and basic part of a building; it is built to protect an area. It divides the construction building to form rooms and sections. In this category, the thin line describes the interior wall, and the thick line describes the exterior walls. There are three types of

walls; Building Walls, Exterior Boundary Walls, and Retaining Walls. Wall symbols illustrate different sizes, lengths, widths, the material of walls. These denote different types of walls according to their placement and functions. There are the following wall symbols used in a building plan.

This category also includes pillars, windows, doors, and stairs. Pillars are of different types and designs like tied, spiral, composite, etc. Windows has various designs and categories such as Double Hung, Casement, bay, and picture window. If you want to know more about [wall shell symbols²](https://www.edrawsoft.com/walldoor.html), just check here.

Wall	Vertical Wall	Curved Wall
		
Curtain Wall	Space	L-Space
		
T-Space	Room 1	Room 2
		
Room 3	Pilaster	Rectangular Column
		
Circular Column	Beam	Grid Origin
		
Grid Line		

² Wall shell symbols: <https://www.edrawsoft.com/walldoor.html>



Source: EdrawMax




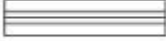


2.4 Doors and Windows Symbols

A door is a hinged, sliding, revolving barrier to entering the room, building, hall, vehicle, or cupboard framework. It is a passageway or transition from one place to another. All these symbols are added to a building plan according to the placement and location of doors.







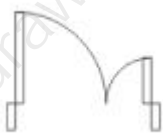











A window is an opening in a wall or roof of a building to admit air and light; it also allows a passage of some sound. It may be opened or shut. The glass on a window can be transparent, translucent, or opaque. Different window symbols are used in a diagram to represent various types and categories of windows. **Doors and windows symbols**³ are the basic elements of any plumbing plans.

The windows are portrayed as if they were part of the walls.

- Three parallel lines separate regular sliding-glass windows from solid walls.
- Casement windows have arcs that look like doors and demonstrate how they open outward.
- The bay windows are tilted like the edge of a stop sign, interrupting the wall's straight line trajectory.

Window	Open Window	Open Window 2
		
Open Window 3	Glider Window	Casement Window
		
Bay Window	Double Casement Window	Opening

³ Door and windows symbols: <https://www.edrawsoft.com/walldoor.html>

		
Door	Double Hung Door	Double Door
		
Uneven Door	Opposing Door	Revolving Door
		
Folding Door	Sliding Door	Double Sliding Door
		
By Pass Door	Bi Fold Door	Double Bi Fold Door
		
Sliding Glass Door	Overhead Door	Garden Window
		

Source: EdrawMax

3. Where to Find Plumbing Symbols

You can save time by creating an accurate plumbing plan with details and clearly representing each component using pre-drawn **plumbing plan symbols**.

You can easily find plumbing plan symbols in the symbol library of [EdrawMax⁴](#). EdrawMax gives you more than 26000 symbols that you can use to create a plumbing plan or any other diagram. You can go and search for the symbols you want in EdrawMax and click on the plumbing plan. Go to the plumbing plan category and use a simple drag and drop to add any symbol you want.

EdrawMax Plumbing Plan Symbols:

EdrawMax is the best resources for plumbing plan symbols, you can find hundreds of plumbing plan symbols here. Just drag and drop, you can create plumbing plan easily.

4. How to Use Plumbing Plan Symbols

Follow these instructions to learn how to use plumbing plan symbols and easily create more plumbing plan symbols with EdrawMax.

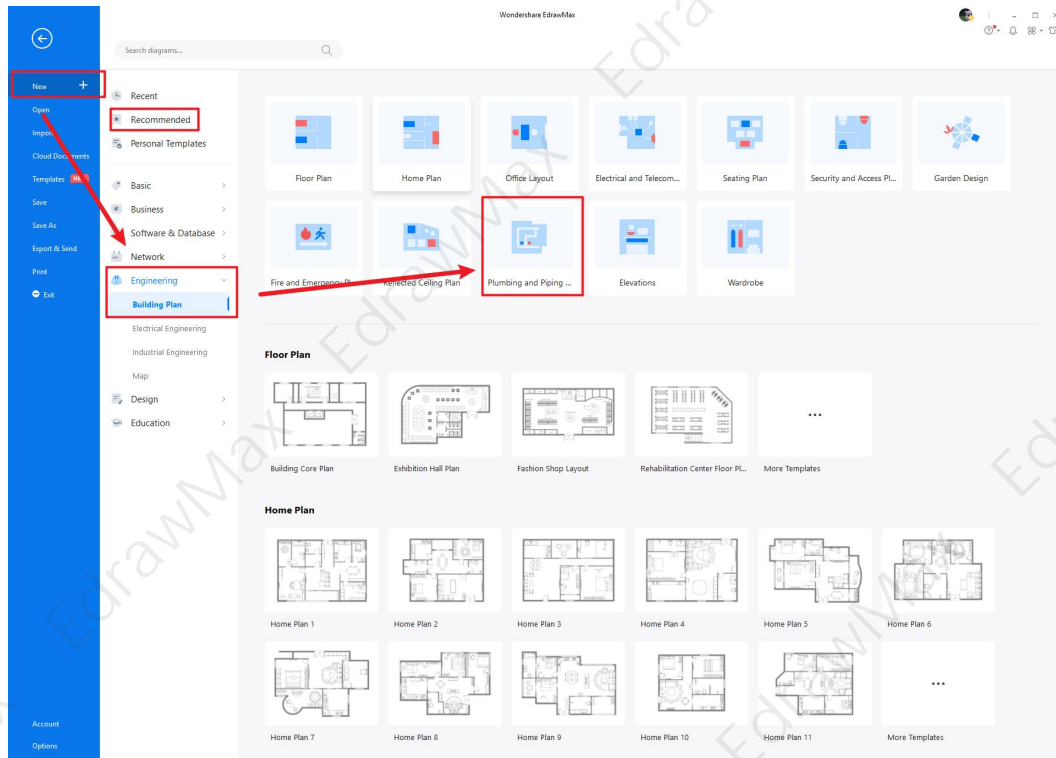
4.1 How to Use Plumbing Symbols in EdrawMax

Instead of wasting time drawing the plumbing plan symbols or icons on paper, you should look for a way to design a plumbing plan easily. [EdrawMax](#) is well equipped to design a plumbing plan.

Step 1: Login EdrawMax

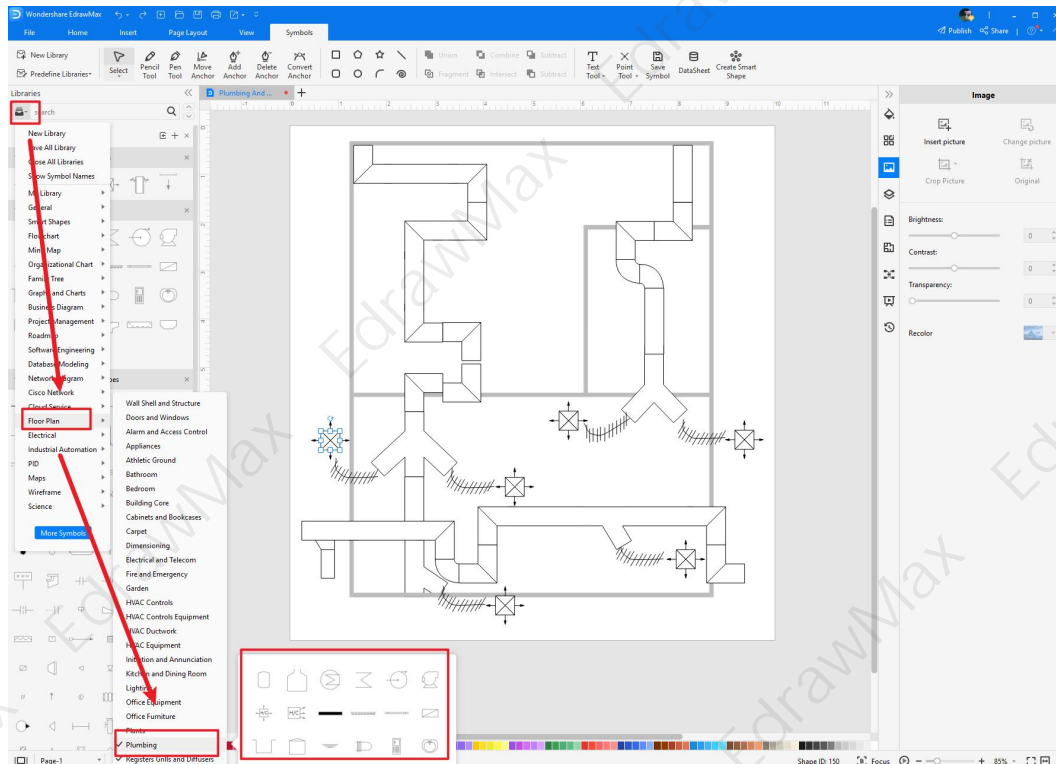
If you are new here, you should use your Email to register EdrawMax, but if you're already the EdrawMax's user, you just need to login EdrawMax for free. Open EdrawMax select "**Engineering**", and find "**Building Plan**", and click "**Plumbing Plan**", then open a new canvas or just open a built-in template.

⁴ EdrawMax: <https://www.edrawsoft.com/edraw-max/>



Step 2: Select Plumbing Plan Symbols

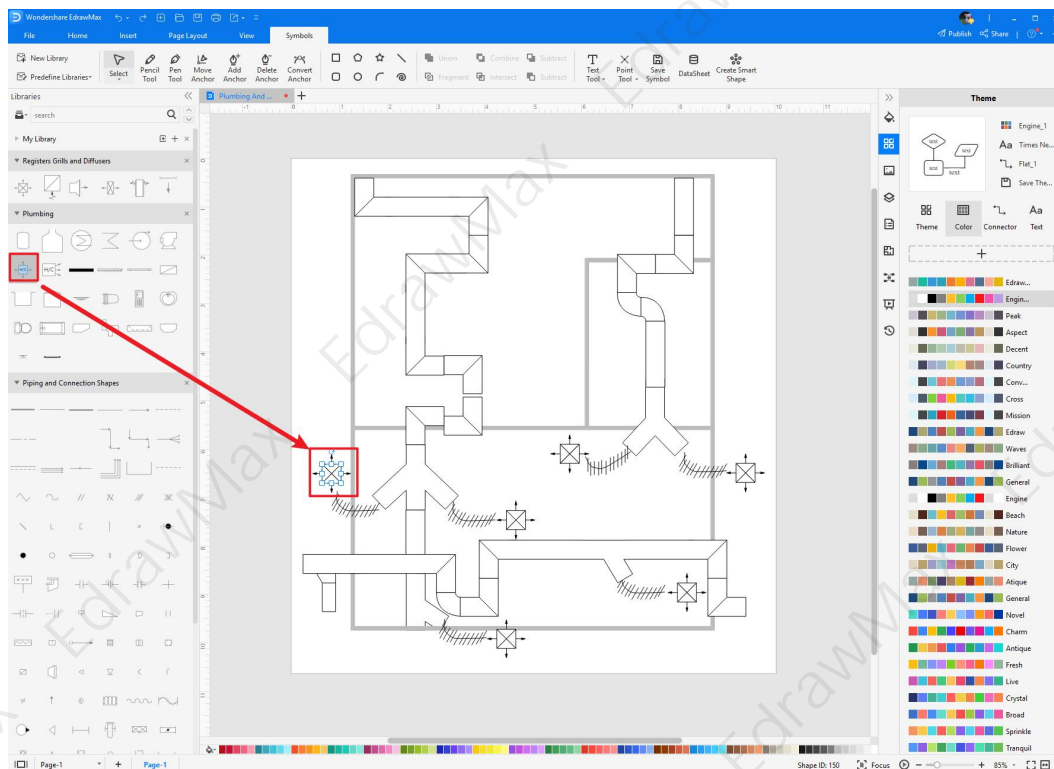
Unlike physical drawing, EdrawMax helps to create a plumbing plan easily. In the symbol section of EdrawMax, you will find over 260,000 vector-based symbols that you can use in your designs. In EdrawMax, you can find plumbing plan symbols in **Symbol Libraries** on the left toolbar. You can click on the "+" option to open a new canvas to make your plumbing plan. On the left side of the canvas, you will see a symbol library with many plumbing plan symbols. You can search for specific symbols in the search bar.



Step 3: Drag and Drop

Once you find the proper plumbing plan symbols you want, just drag and drop the symbols to the canvas easily. Keep customizing by choosing the right symbols, proper scale or dimensions, and adding more details, like color, font, and etc. When completed your plumbing plan, you can export your file or share your design effortlessly. Learn more [plumbing plan guide](https://www.edrawsoft.com/create-plumbing-and-piping-plan.html)⁵ here if necessary.

⁵ Plumbing plan guide: <https://www.edrawsoft.com/create-plumbing-and-piping-plan.html>



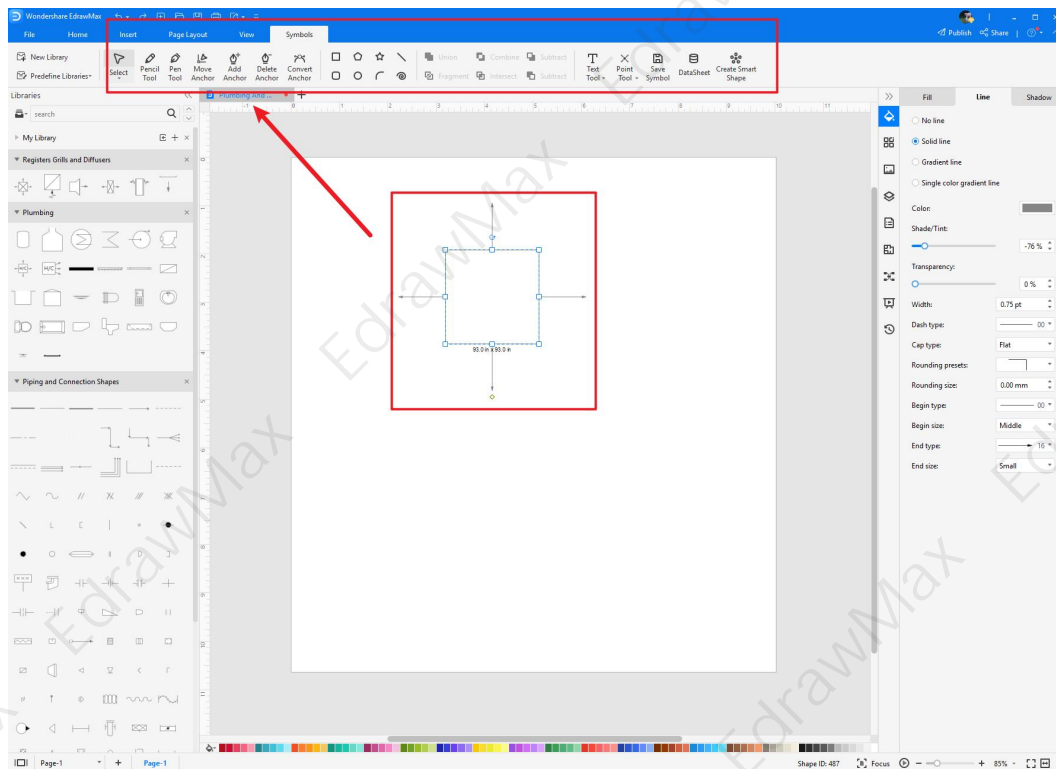
4.2 How to Create More Plumbing Symbols in EdrawMax

EdrawMax provides you with thousands of symbols to create your diagram. Sometimes you want to use unique or personalized symbols in your diagram that are not in the library. EdrawMax gives you a simple solution to this problem. Follow these steps when you don't find the plumbing plan symbols you want or you wish to create your symbols to make your diagram.

Step 1: Find Symbol Tool

If you can't find any symbol similar to the one you want, you can use the pencil tool, pen tool, and anchor tool to draw your personalized plumbing plan symbols. It is much easier to draw the symbol you want on EdrawMax instead of searching for the one that suits your requirements. You can also save your symbol in the library for later use.

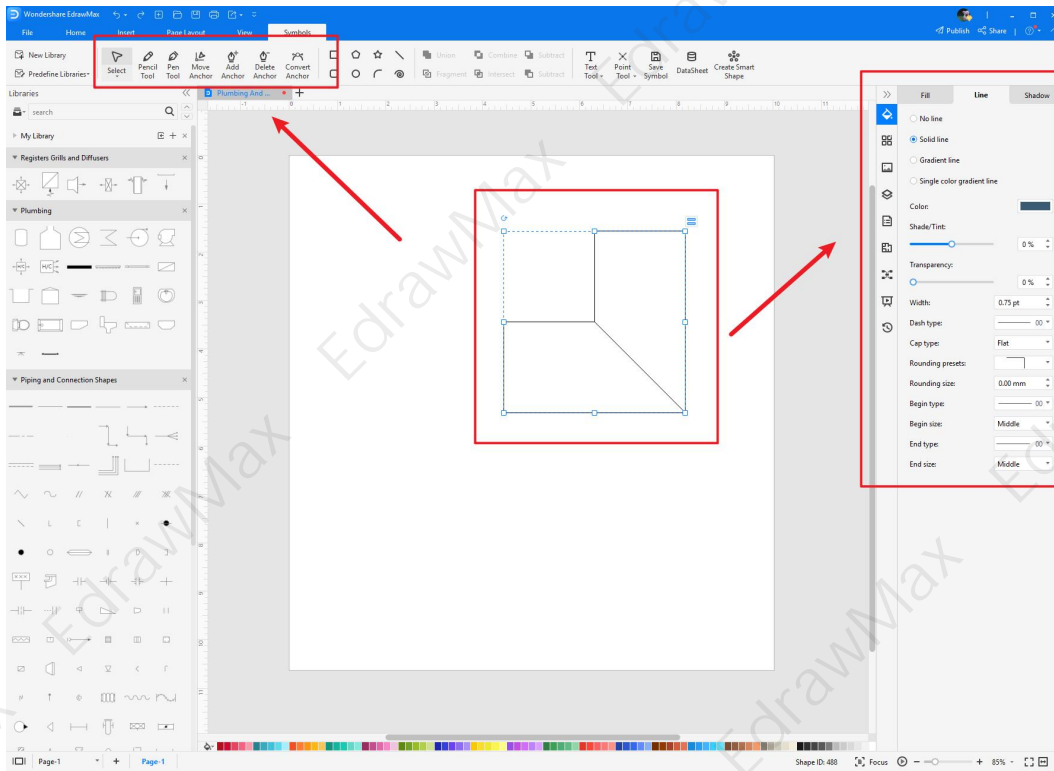
- Select "**Symbols**" on the upper Toolbar;
- Use "**Pencil Tool**", "**Pen Tool**", "**Anchor Tool**" to create garden symbol from very beginning;
- Choose "**Union**", "**Combine**", "**Subtract**", "**Fragment**", "**Intersect**", "**Smart Shape**" to make your symbols.



Step2: Create Bathroom Plan Symbols

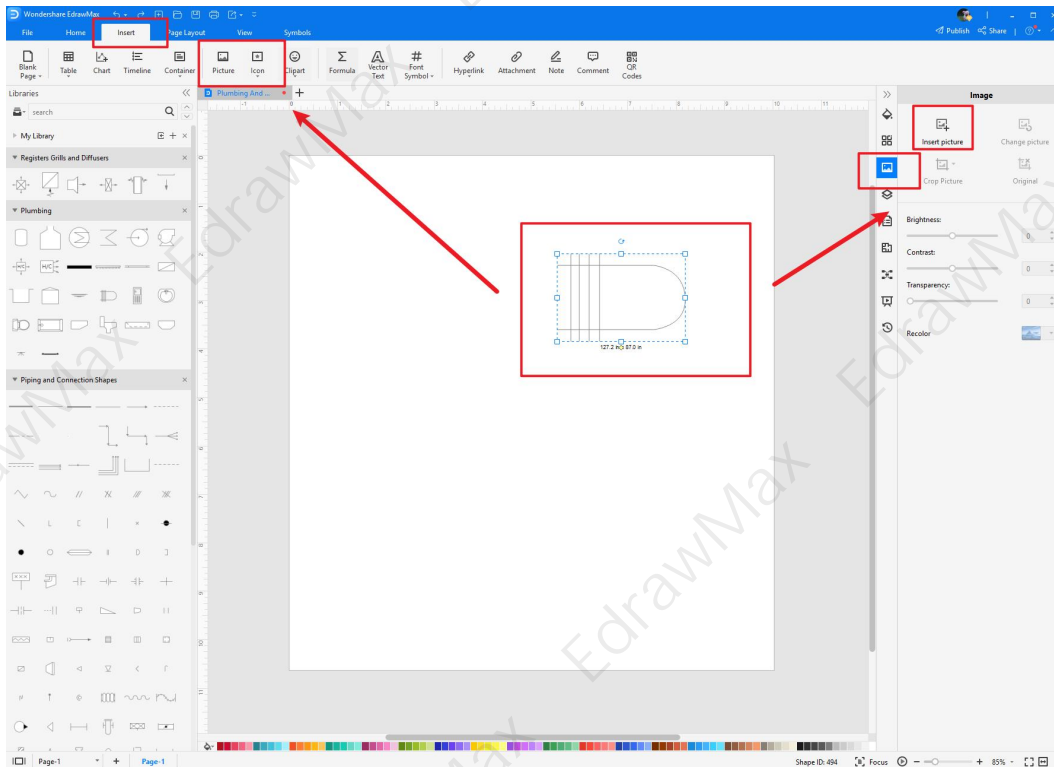
When you create a plumbing plan symbol, make sure that the size, design, and other attributes of your icon go along with other plumbing plan icons. Follow these steps to draw perfect symbols.

- Piping or plumbing drawing includes fittings, pipes, dimensions.
- First of all, draw the default paths for sheet formats and bills of materials.
- Draw the tube and pipes by lines.
- View the pipe length in notes and custom properties of a piping or plumbing route.



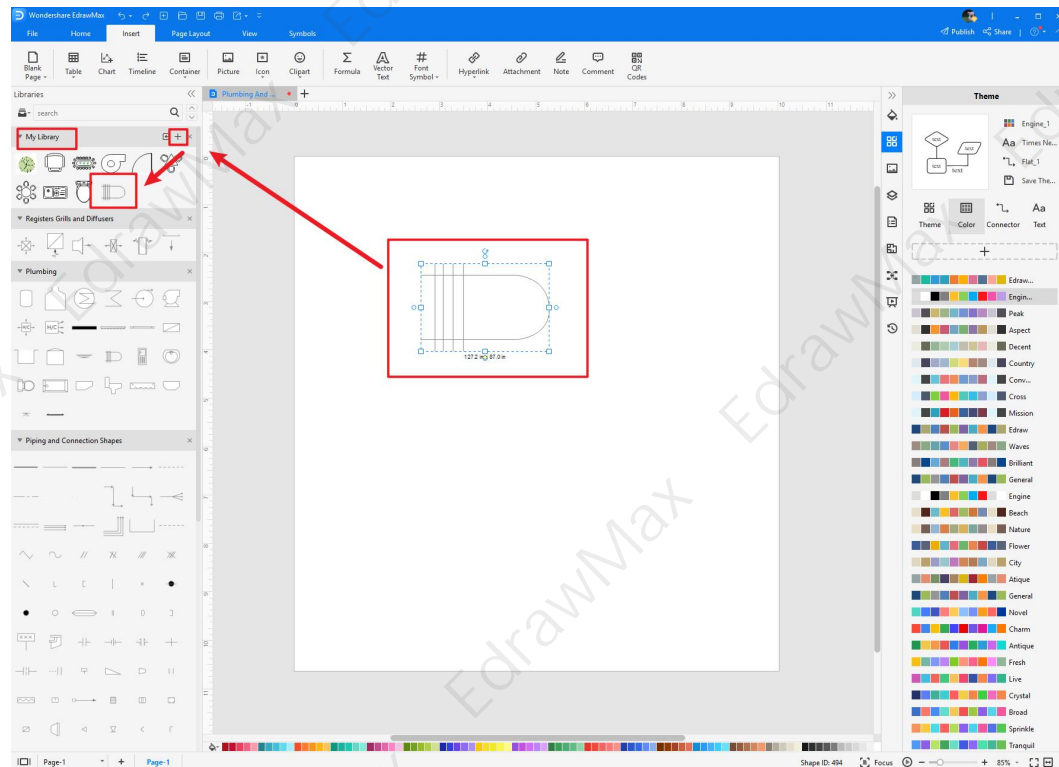
Step3: Import Plumbing Plan Symbols

Except for creating new plumbing plan symbols in EdrawMax, you can import plumbing plan symbols from your end. Find "Insert" on the top navigate toolbar, and import images to turn into symbols. Or click the third option of the right toolbar to insert images faster.



Step4: Save to Your Symbol Libraries

Once you completed your plumbing plan symbols design or import your symbol images, you should still click "**Symbols**" on top, and choose "**Save Symbol**" to your symbol Libraries. Or you can click "+" in My Library on the left toolbar. Learn more about how to draw a plumbing plan or design a plumbing from this [plumbing plan guide](#) here.



5. Free Plumbing Plan Software

Instead of drawing it from scratch, it is much easier to create a plumbing plan with **free plumbing design software**⁶, such as EdrawMax. With EdrawMax, you get a comprehensive symbol library with thousands of **plumbing plan symbols** that you can use to make your diagram. It also gives you free editable templates that you can customize in a few minutes and complete your floor plan. EdrawMax is an excellent tool for team collaboration, and its easy-to-use interface makes it the first choice for everyone.

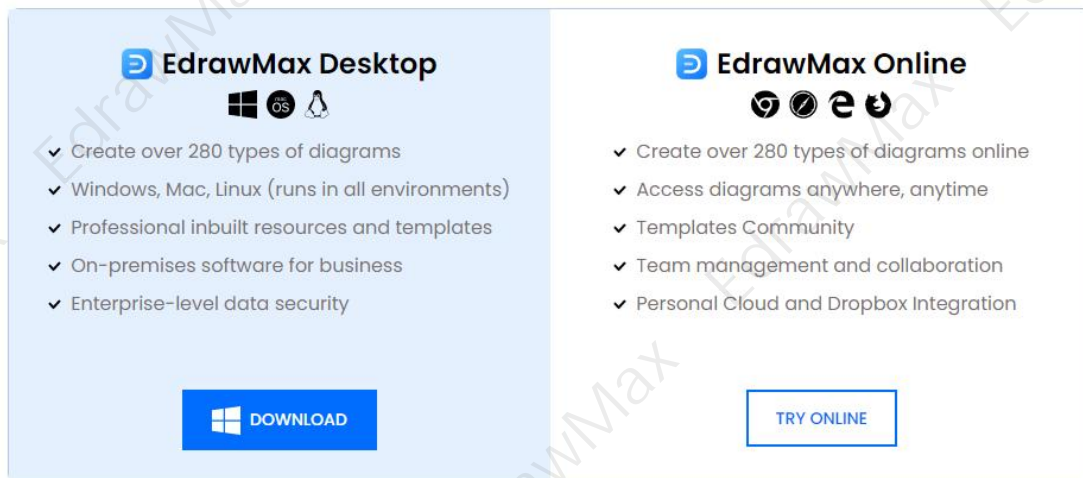
key Features of EdrawMax:

- EdrawMax comes with free [plumbing plan examples & templates](#)⁷ that are 100 percent customizable;

⁶ Free plumbing design software: <https://www.edrawsoft.com/plumbing-piping-plan-software.html>

⁷ Plumbing plan examples & templates: <https://www.edrawsoft.com/bathroom-plan-template.html>

- The built-in vector symbols let you easily add plumbing plan components to your design;
- You can easily share the plumbing plan with your team and see the live revisions made by your team;
- EdrawMax lets you export the file in multiple formats, including MS Docs, PPTX, JPEG, PNG, PDF, and more;
- EdrawMax has a strong community of 25 million users who update the template community with their creative projects;
- EdrawMax is considered the best tool for beginners and professionals because of the user-friendly dashboard and easy drag-and-drop feature.



EdrawMax Desktop	EdrawMax Online
<ul style="list-style-type: none">✓ Create over 280 types of diagrams✓ Windows, Mac, Linux (runs in all environments)✓ Professional inbuilt resources and templates✓ On-premises software for business✓ Enterprise-level data security	<ul style="list-style-type: none">✓ Create over 280 types of diagrams online✓ Access diagrams anywhere, anytime✓ Templates Community✓ Team management and collaboration✓ Personal Cloud and Dropbox Integration
DOWNLOAD	TRY ONLINE

6. Final Thoughts

An effective **plumbing plan** is a reason behind a successful life of a building. When a building is constructed, a plumbing connection is installed to supply water and gas, drain waste, provide drainage passages, and prevent pipeline destruction. That is why a proper plumbing plan is made during the building's floor mapping and construction mapping. All the **plumbing symbols** are used according to the functions and purposes of tools, and these help constructors adjust the structure according to all pipelines and fittings accurately and effectively.

EdrawMax is the best free plumbing plan maker that gives you free symbols and templates to make your plumbing drawing plan. Its fast drawing and easy symbol import feature make it the prime choice for beginners and professionals.

You May Also Like:

- ⁸Bathroom Floor Plan:
- ⁹Kitchen Floor Plan Symbols
- ¹⁰Bedroom Floor Plan Symbols
- ¹¹Home Plan Symbols
- ¹²Electrical and Telecom Plan Symbols

⁸ Bathroom Floor Plan: <https://www.edrawsoft.com/symbols/bathroom-vector-icons.html>

⁹ Kitchen Floor Plan Symbols: <https://www.edrawsoft.com/symbols/kitchen.html>

¹⁰ Bedroom Floor Plan Symbols: <https://www.edrawsoft.com/bedroom.html>

¹¹ Home Plan Symbols: <https://www.edrawsoft.com/home-plan-symbols.html>

¹² Electrical and Telecom Plan Symbols: <https://www.edrawsoft.com/electrical-telecom-symbols.html>



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