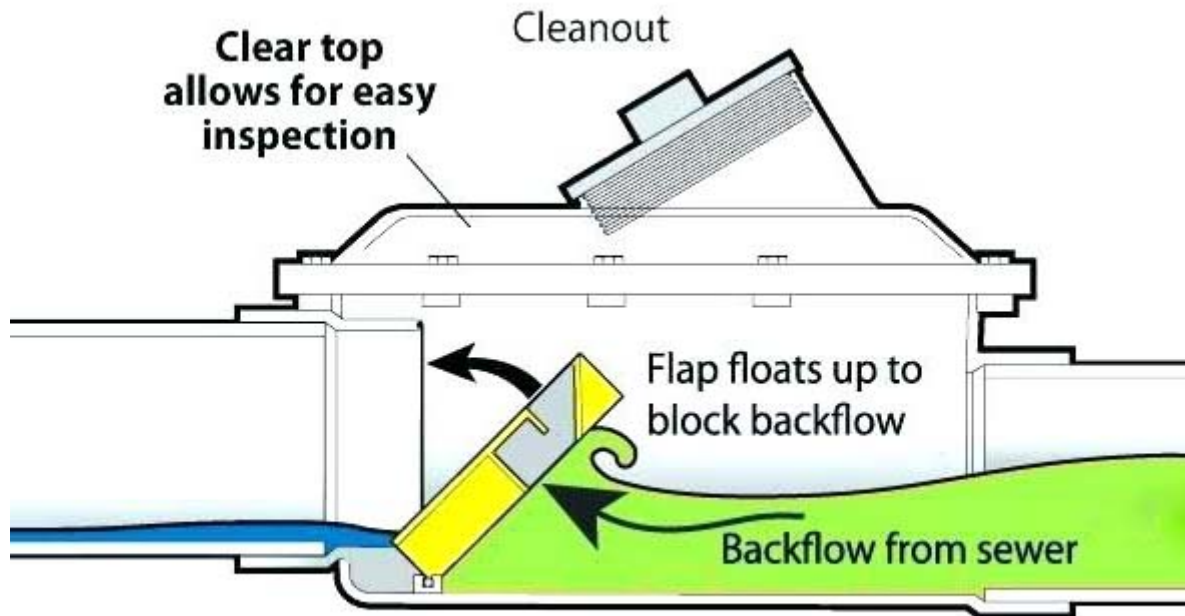


Backwater Valves: Installation (Costs and Maintenance in 2022)

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Backwater Valves: Installation (Costs and Maintenance in 2022) – A backwater **valve** will prevent water from backing up into your basement when the main sewer line backups and overflows. As soon as sewage begins backing up from the main sewer line, the valve automatically closes. With a backwater valve, you can keep sewage from overflowing into your home. In addition to backwater valves, they are also called mainline backflow preventers or backflow prevention valves.

You can find all the relevant information about backwater valves at Linquip’s website, leaving you no need to go anywhere else. Count on our team of experts to guide you in finding the backwater valves that are right for you at any time. If you are looking for a basic understanding of the working principles and applications of these industrial devices, you may find the article on Linquip’s website, “**What is Industrial Valves? Working Principles & Applications,**” of great use to you.

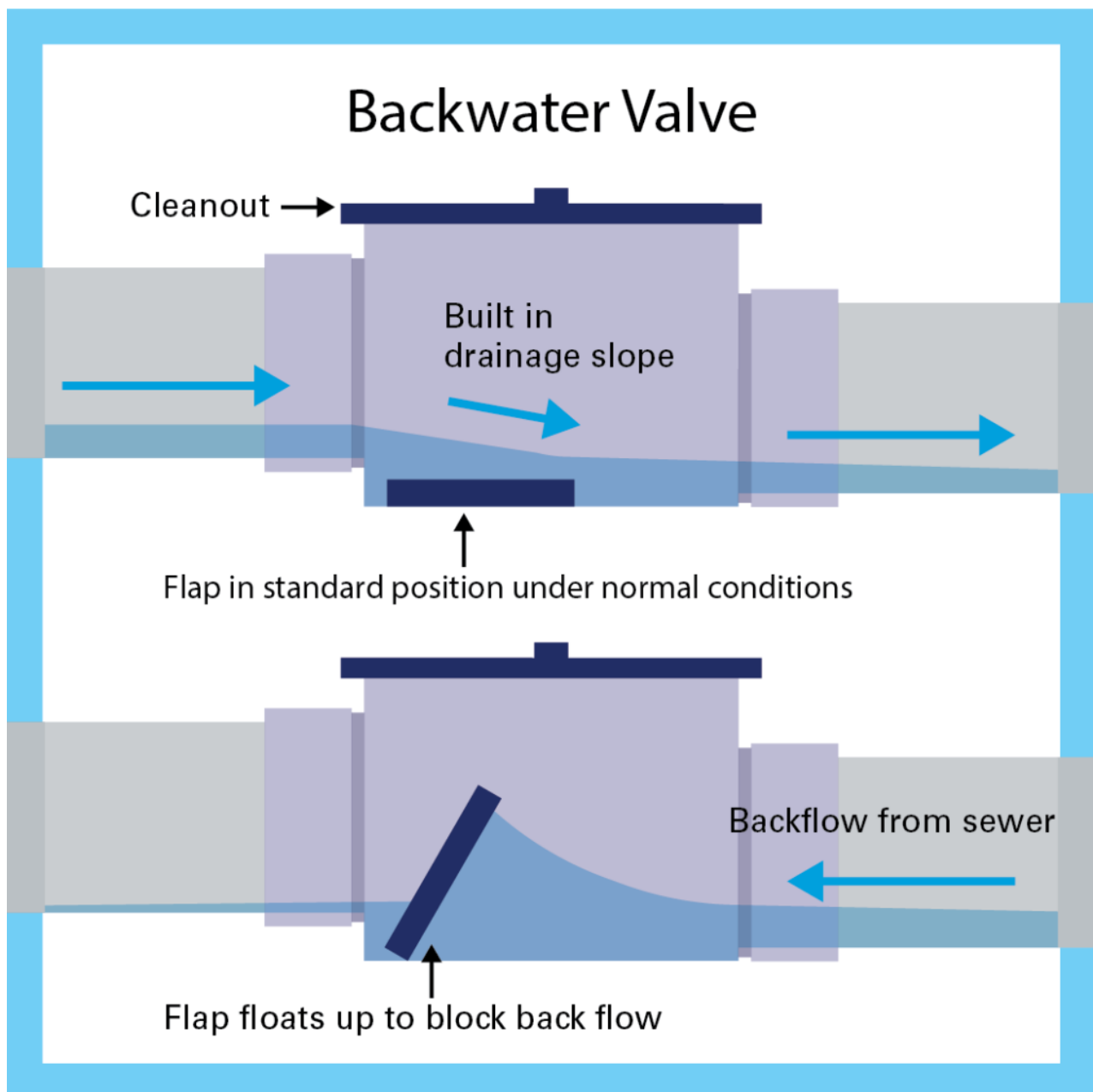
Are you familiar with backwater valves? If so, how did it go for you? The **Valve Products** selection at Linquip will help you find the valve you’re looking for. Is there any special maintenance required for your backwater valve? Have you ever needed a guide to help you install or repair a backwater valve? How can you obtain a manual for the backwater valve online? Do you have access to an online manual for the backwater valve? The Linquip platform gives free access to available **Valve Service Providers**. The Linquip platform makes it easy for you to find backwater valve prices by submitting a request/inquiry to available **Valve Suppliers and Companies** free of charge.

The backwater valve works by cutting off the flow of wastewater by using a one-way flap. A closed valve prevents water from leaking into your home. As a result, serious problems like flooding and sewage backup are prevented.

Those who own a basement or whose homes are prone to flooding may need a backwater valve. Also, if you live in an area where severe weather events are frequent, such as flash floods or snowstorms, you may want to consider installing a backwater valve.

Grease and oil buildup can clog a sewer line in the vast majority of cases. This is where a backwater valve really comes in handy so that even if your sewer line clogs, sewage doesn't back up into your home.

Get a better understanding of backwater valves by checking out [this link](#).



A schematic diagram of a backwater valve (Reference: [epcor.com](#))

Backwater Valve Installation Cost – What Should I Expect?

Depending on the particular situation, the answer will vary. Installing a sewer backflow valve can cost a few hundred dollars for small houses. It can be more expensive to install a few valves on larger projects. Local government subsidies will also affect the final cost of a backwater valve installation. Costs may also vary depending on the layout of your home and the type of plumbing device you need.

We provide you with a brief and easy-to-understand summary of the total cost of installing a backwater valve so that you can save time. This cost guide provides an overview of what you should expect to pay for each component of the project, so you can make an informed decision based on your budget and project goals.

Item	Price Range
Device Cost	\$30-\$650
Labor Cost	\$150-\$450
Permit Fee	\$50
Backflow Testing Cost	\$70-\$90
Thermostatic freeze Relief (If needed)	\$80-\$100
DIY Cost	\$100-\$600 (all device costs)
Average Cost	\$300-\$400

A backflow preventer installation costs, on average, \$300-\$400, according to the 2022 research. Backflow preventers for low-level systems cost between \$130 and \$200, on average, whereas high-level preventers cost anywhere between \$800 and \$1,000.

Factors Affecting Cost

Depending on how deep you need to dig to access your plumbing, backflow repair costs can vary quite a bit. If you're planning to install backwater valve, take these factors into account:

Choose the Right Type of Device for Your Needs

The model and size of the system affect the price. A system will cost between \$130 and 999 dollars depending on its size and model. You can determine which type of backwater valve you should install based on the distance between your home and your neighborhood's main sewer line. Some backwater valves are cheaper to install than others.

Find the Right Size of Device

Different types of devices are available on the market. One-half to twelve-inch devices are the most common. On average, you'll pay \$35-\$55 for a half-inch system and \$50-\$100 for a 1-inch system.

Larger systems cost more. Generally, a 2-inch system costs \$75 to \$200, while a 6-inch system is \$100 to \$300. Bigger systems are typically more expensive.

Backflow prevention systems that are 8 inches in size cost about \$100 to \$400 on average. The largest 12-inch system will cost between \$400 and \$600.

Make Sure You Understand Whether You Are Installing or Retrofitting

Depending on the municipality, backwater valves may be required or recommended. They may be installed during the initial construction of the home or they may be retrofitted in existing homes. The cost of installing during initial construction is significantly lower and can range between \$150 and \$250. During retrofitting, some concrete must be removed in order to reach the main sewer line. It costs \$1,500 to \$2,000 to retrofit a backwater valve. Backwater valves can be installed with the assistance of subsidies from some municipalities.

Identify Which Plumbing Pipes Need To Be Accessed in Your Basement or Outside

You may have to drill into the floor if your pipes are below the basement, which can significantly increase the cost.

Estimate How Complex the Job Is

Licensed plumbers and other professionals cost between \$80 and \$400. The permit is not needed by most of the state, but I need one, so the cost is not more than \$50. Ask about the permits before installing. Whether you do it yourself or hire a pro, your town's sewer service will require a permit fee, which starts at \$50. In commercial properties or sprinkler systems, fees are even higher if a backflow preventer is being installed.



Installation of a backwater valve (Reference: mydecorative.com)

What Is the Timeframe for Installing a Backwater Valve?

In general, the timing of the process of installing a backwater valve depends on the specific case. There are several promises that apply to your home regardless of other factors. A valve will need to be installed after your pipes are inspected (and you might need to obtain a permit).

What you might not know is that installing the backwater valve does not require you to shut down your house. Normally, you can carry on with your regular routine with no problem. Backwater valves typically require two to eight hours of installation, depending on the accessibility of your home's drain pipes. During the plumbing appointment, the plumber will provide you with some maintenance tips, such as tips on keeping the valve from getting clogged by flushing it with water.

What Are My Chances of Saving Money on Installation If I Do It Myself?

The installation of backwater valves yourself is not recommended, even if you can do it yourself. When you have complex projects involving drilling, it's best to hire a professional plumber. Although you'll have to pay a few hundred dollars more, you'll also have peace of mind knowing the job will be done correctly. In addition to not being certain whether this will actually prevent any damage, you may have difficulties with your insurance if you do not work with licensed plumbers during installation.

However, if you have the right tools, installing a tool by yourself can cost as little as \$35. Depending on your home's layout, you may have to pay more. For example, to access the area underneath your basement floor, you may require a drill to rent or buy. Occasionally, you will need to remove objects that obstruct the spot where your system will be located in an older house.

Backwater Valve Maintenance

At least once a year, you must check the valve for debris that can clog it up and make sure that all moving parts can move freely. Most valves have a removable cover for easy cleaning. Be cautious, though. For a more thorough clean, some experts suggest running hot soapy water down the sink first. When you scrub around, and under the flap, you should wear rubber gloves and use a long-handled brush. Most manufacturers provide maintenance recommendations for backwater valves.

The O-ring around the lid should also be inspected to ensure it's in good shape. It may need to be replaced if it is not. Ensure that the floats on each side of the flap are in good condition, and replace them if necessary. As soon as they are worn, they will stop floating and not lift the flap when needed.

It is a good idea to avoid flushing or diluting such items as 'flushable wipes' or diaper liners to keep the flow flowing smoothly. When these things are disposed of in the garbage instead of the toilet, your toilet system will not have to work extra hard, and it will also increase its chances of not being clogged.

If you are unsure of the condition of the valve or do not feel confident working on it yourself, you can have a plumber inspect it for you.



Backwater valve maintenance (Reference: themapleroots.com)

How Long Is the Backwater Valve Expected to Last?

Proper maintenance will help your backwater valve last for many years. At the very least, have the valve cleaned and checked once a year according to the manufacturer's recommendations. As mentioned previously, removing unnecessary materials from your system will also help extend its lifespan.

How Do You Handle a Problem When It Arises?

As long as your backwater valve is properly positioned and installed, you shouldn't encounter any problems as long as you maintain it properly. The valve can be smashed by sharp objects or become stuck with things, preventing it from closing. When properly maintained, these issues can be detected before they become serious. Backwater valves are generally easy to access. With a clear top, you can see if the water is flowing freely or if it is stuck.

Several instructional videos exist for people to "do it themselves," or if you do not feel like sticking your hand in a sewage pipe, then you can hire an expert to do it. You need to follow all instructions carefully if you attempt to clear a block by yourself, especially wear gloves.

In a case of no backup in the city sewer during a heavy rainstorm, your backwater valve will shut off, as you would expect. As a result, when that valve is closed, water cannot escape either. It's true that your plumbing system has some storage space to accommodate this, but during heavy rains or excessive melting snow, it might not be wise to use your washing machine and dishwasher simultaneously. The backwater valve will prevent all of this water from escaping once it is closed so that you can flood your own home.

What Is the Best Place to Install a Backwater Valve?

You should install the backwater valve under the floor of your basement, close to where the main sanitary sewer exits your home. Depending on the location of the city sewer lines, you might find one in your front or back yard.

What Is the Average Installation Time of a Backwater Valve?

Depending on the size of your home's drain pipes, it might take 2–8 hours to install a backwater valve. Additionally, the plumber will provide you with some maintenance tips, such as how to flush the valve with water so that it does not become blocked.

Could a Backwater Valve Be Installed Outdoors?

Most of the time plumbers install backwater valves indoors, but there are some instances when an outdoor installation is more practical. You should ask a certified licensed plumber to examine your house's drainage system and determine the best spot for the backwater valve.