

How does Water Hammer work?

When you turn off the water intakes in your home plumbing, you might hear the metal pipes banging loudly. Unfortunately, this sound, commonly known as water hammer, isn't just annoying. Water hammer is potentially dangerous and could damage your plumbing system. A phenomenon known as hydraulic shock, water hammer occurs when water suddenly stops or changes direction. In this instance, a shock wave goes through your pipes, which can cause them to shake, bang, and move.

In canduplumbing.com of unattended water hammer, severe plumbing problems may result. You will learn everything you need to know about this bothersome plumbing sound, including what causes it, how it could affect your plumbing, and (most importantly) how to stop it.

Describe water hammer.

During rapid flow changes, water hammer can cause a pressure surge. It causes a shockwave that causes pipes to sway and bang. A water hammer occurs when water hammers into openings and pipes.



Occasionally water hammer occurs as a result of simple factors, such as high water pressure. You can check your water pressure gauge and adjust it if necessary to determine if it is the cause.

Is it going to affect my plumbing?

As time passes, water hammer can wear away at pipe joints and valves. Worn out plumbing may burst, leak, or separate from their connections. Your shockwave can also pose a physical risk if it is caused by high water pressure. It is possible for a high water pressure to affect people who aren't prepared for a hot or forceful shower.

What should I do to prevent this?

You can resolve water hammer in a number of ways. Listed below are the most commonly used and effective solutions.

Fixing loose pipes. You may bang or shake your pipes due to mild water hammer if your pipes aren't properly secured. The easiest, most cost-effective response is to secure them. Wrap pipe segments in pipe insulation to act as shock absorbers, or install additional straps or hangers to secure pipes at studs or joists. Extreme cases won't be fixed by this solution,

but it can help prevent damage caused by mild cases.

Set up an air chamber. Water hammer occurs when water suddenly stops inside a pipe and creates a shock wave. When the water hits the pipe valves that just closed, a shockwave is generated that travels through the system. In this case, water won't slam into the wall of the valve if an alternate route for the water to return is installed. Short sections of pipe installed near problematic valves are called air chambers. Whenever these valves are closed, it gives excess water and force somewhere to go. Plumbing can be retrofitted with pipe air chambers easily and quickly by a professional.

Put in mechanical water shock arrestors. When an air chamber cannot be installed, mechanical shock arrestors are the best solution. They consist of an air bladder and spring, which are installed around the necessary plumbing joints. The mechanical shock arrestor does exactly what its name implies. By stopping the shockwave created when water hits closed valve walls, they prevent it from reverberating through your pipes.

If you ignore small plumbing problems, you'll have more significant plumbing issues later on. For more information about water hammer or other plumbing issues, contact Candu Plumbing. A technician will diagnose and fix your issue as quickly and efficiently as possible.