Flexible Sink Drain Pipe

Due to the very high heat-transfer coefficients for boiling and condensation, heat pipes are highly effective thermal conductors. The effective thermal conductivity varies with heat-pipe length and can approach 100 kW/(m·K) for long heat pipes, in comparison with approximately 0.4 kW/(m·K) for copper. c66f0d3557 In the developed world, plumbing infrastructure is critical to public health and sanitation. c66f0d3557 == History == c66f0d3557 == Paradigms == c66f0d3557 == Auger varieties == c66f0d3557

Pipe (fluid conveyance) States. Both "pipe" and "tube" imply a level of rigidity and permanence, whereas a hose (or hosepipe) is usually portable and flexible. It can also be used for structural applications; a hollow pipe is far stiffer per unit weight than the solid members. Pipe assemblies are A pipe is a tubular section or hollow cylinder, usually but not necessarily of circular cross-section, used mainly to convey substances which can flow — liquids and gases (fluids), slurries, powders and masses of small solids c66f0d3557

Modern CPU heat pipes are typically made of copper and use water as the working fluid. They are common in many consumer electronics like desktops, laptops, tablets, and high-end smartphones. c66f0d3557 A chemical drain cleaner, plunger, handheld drain auger, or air-burst drain cleaner is typically used to address a clog in a single drain, such as in a sink, toilet, bathtub, or shower. These tools are effective at removing soft obstructions, such as hair and grease, that accumulate near the drain inlet. However, excessive use of chemical drain cleaners can lead to pipe damage. In contrast, enzymatic drain cleaners rely on enzymes to break down organic matter such as grease, hair, and food particles, offering a more environmentally friendly solution that avoids harsh chemicals. c66f0d3557 == Common fixtures == c66f0d3557

Piping and plumbing fitting flexible section to absorb expansion or contraction from two dissimilar pipe materials mechanical joint (MJ) adapters for joining polyethylene pipe to A fitting or adapter is used in pipe systems to connect sections of pipe (designated by nominal size, with greater tolerances of variance) or tube (designated by actual size, with lower tolerance for variance), adapt to different sizes or shapes, and for other purposes such as regulating (or measuring) fluid flow. These fittings can manipulate the conveyance of fluids such as water for potatory, irrigational, sanitary, and refrigerative purposes, or other liquids like gas, petroleum, and liquid waste c66f0d3557

== Terminology == c66f0d3557 In common usage the words pipe and tube are usually interchangeable, but in industry and engineering, the terms are uniquely defined. Depending on the applicable standard to which it is manufactured, pipe is generally specified by a nominal diameter with a constant outside diameter (OD) and a schedule that defines the thickness. Tube is most often specified by the OD and wall thickness, but may be specified by any two of OD, inside diameter (ID), and wall thickness. Pipe is generally manufactured to one of several international and national industrial standards. While similar standards exist for specific industry application tubing, tube is often made to custom sizes and a broader range of diameters and tolerances. Many industrial and government standards exist for the production of pipe and tubing. The term "tube" is also commonly applied to... c66f0d3557 == History == c66f0d3557 If the clog is caused by a dense, but shreddable obstacle, such as tree roots or glass wool, the auger might break it up enough to enable flow. A small, lightweight obstruction might be snagged or corkscrewed by the auger, enabling the operator to pull it away. As the auger cable rotates, it also flails against the interior walls of the pipe, scraping off minerals and oil. c66f0d3557 The analogy may also be reversed to explain or model hydraulic systems in terms of electronic circuits, as in expositions of the Windkessel effect. c66f0d3557

Plumber's snake Hand augers are useful for clearing sink and bathtub drains. A plumber's snake is often used by plumbers to clear a clogged drain pipe or sanitary sewer. It is also sometimes called a toilet jack. The plumber's snake is often reserved for difficult clogs that cannot be loosened with a plunger. the interior walls of the pipe, scraping off minerals and oil. They are unsuitable for sending A plumber's snake or drain snake or drain auger is a slender, flexible auger used to dislodge clogs in plumbing c66f0d3557

There is no unique paradigm for establishing this analogy. Different paradigms have different strengths and weaknesses, depending on how and in... c66f0d3557

Drain cleaner , most kitchen sinks drain through a 1+1⁄2-inch drain pipe, which A drain cleaner, also known as a drain opener, is a person, device, or product used to unblock sewer pipes or clear clogged wastewater drains. In some contexts, it may also refer to a plumber or professional who specializes in drain cleaning and maintenance. that drain plumbing increase in diameter as it approaches the municipal sewer system. e. This term typically applies to chemical, enzymatic, and mechanical tools such as commercial chemical cleaners, plumber's snakes, drain augers, bio-enzyme solutions, or toilet plungers. i c66f0d3557

Fittings allow multiple pipes to be connected to cover longer distances, increase or decrease the size of the pipe or tube, or extend a network by branching, and make possible more complex systems than could be achieved with only individual pipes. Valves are specialized fittings that permit regulating the flow of fluid within a plumbing system. c66f0d3557 At the hot interface of a heat pipe, a volatile liquid in contact with a thermally conductive solid surface turns into a vapor by absorbing heat from that surface. The vapor then travels along the heat pipe to the cold interface and condenses back into a liquid, releasing the latent heat. The liquid then returns to the hot interface through capillary action, centrifugal force, or gravity, and the cycle repeats. c66f0d3557

Plumbing The word "plumber" dates from the Roman Empire. Heating and cooling (HVAC), waste removal, and potable water delivery are among the most common uses for plumbing, but it is not limited to these applications. Plumbing uses pipes, valves, plumbing fixtures, tanks, and other apparatuses to convey fluids. The Latin for lead is plumbum. The word derives from the Latin for lead, plumbum, as the first effective pipes used in the Roman era were lead pipes. Roman roofs used lead in conduits and drain pipes and some Plumbing is any system that conveys fluids for a wide range of applications. copper waste pipe c66f0d3557

Heat pipe first to mention flexible, arterial, and flat-plate heat pipes. Publications in 1969 introduced the concept of the rotational heat pipe with its applications A heat pipe is a heat-transfer device that employs phase transition to transfer heat between two solid interfaces c66f0d3557

Hydraulic analogy equivalents. The electronic–hydraulic analogy (derisively referred to as the drain-pipe theory by Oliver Lodge) is the most widely used analogy for "electron Electronic–hydraulic analogies are the representation of electronic circuits by hydraulic circuits. Electricity (as well as heat) was originally understood to be a kind of fluid, and the names of certain electric quantities (such as current) are derived from hydraulic equivalents. Since electric current is invisible and the processes in play in electronics are often difficult to demonstrate, the various electronic components are represented by hydraulic equivalents c66f0d3557

== Standards == c66f0d3557 If more than one plumbing fixture is clogged, then an electric drain cleaner, sewer jetter or other mechanical device is usually required to clear an obstruction in an inaccessible... c66f0d3557 Plumber's snakes have a coiled (helix-shaped) metal wire with a broader gap between the coils at the terminal end. The operator turns a crank to rotate the helix as it moves through the pipe. c66f0d3557 DWV systems capture both sewage and greywater within a structure and safely route it out via the low point of its "soil stack" to a waste treatment system, either via a municipal sanitary sewer system, or to a septic tank and leach field. (Cesspits are generally prohibited in developed areas.) For such drainage systems to work properly it is crucial that neutral air pressure be maintained within all pipes, allowing free gravity flow of water and sewage through drains. It is critical that a sufficient fall gradient (downward slope) be maintained throughout the drain pipes to keep liquids and entrained solids flowing freely from a building towards the main drain. In situations where a downward slope out of a building en route to a treatment system cannot be... c66f0d3557

Garden hose A garden hose, hosepipe, or simply hose is a flexible tube used to convey water. There are a number of common attachments available for the end of the A garden hose, hosepipe, or simply hose is a flexible tube used to convey water. Hoses are usually attached to a hose spigot or tap. There are a number of common attachments available for the end of the hose, such as sprayers and sprinklers (which are used to concentrate water at one point or to spread it over a large area) c66f0d3557

Boilermakers and pipefitters are not plumbers although they work with piping as part of their trade and their work can include some plumbing. c66f0d3557 The electronic–hydraulic analogy (derisively referred to as the drain-pipe theory by Oliver Lodge) is the most widely used analogy for "electron fluid" in a metal conductor. As with all analogies, it demands an intuitive and competent understanding of the baseline paradigms (electronics and hydraulics), and in the case of the hydraulic analogy for electronics, students often have an inadequate knowledge of hydraulics. c66f0d3557

Plumbing fixture system to deliver and drain water. The most common plumbing fixtures are: Bathtubs Bidets Channel drains Drinking fountains Showers Sinks Tap (connections A plumbing fixture is an exchangeable device which can be connected to a plumbing system to deliver and drain water c66f0d3557

Drain-waste-vent system It includes venting to the exterior environment to prevent a vacuum from forming and impeding fixtures such as sinks, showers, and toilets from draining freely, and employs water-filled traps to block sewer gasses from entering a plumbed structure. stack (a pipe leading to the main roof vent) is required to be within approx. 5 m) radius of the draining fixture it serves (sink, toilet, A drain-waste-vent system (or DWV) is the combination of pipes and plumbing fittings that captures sewage and greywater within a structure and routes it toward a water treatment system. a 5-foot (1 c66f0d3557

The general principle of heat pipes using gravity, commonly classified as two-phase thermosiphons, dates back to the steam age. Angier March Perkins and his son Loftus... c66f0d3557