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## Hydroloop, Pressure and Flow.

The first thing to understand is that **PRESSURE** and **FLOW** are two distinct properties in a hydraulic system.

Pressure, within a closed circuit, is the force that water exerts in all directions on the pipe. It has no flow unless an element specifically provides it, and this can be in any direction as long as it's a closed circuit. Hydroloop® is the device that provides this flow while simultaneously converting the plumbing of a bathroom or kitchen, along with the water heater, into a closed circuit.

Water flow exists in a specific direction when the circuit is opened and an outlet is available, for example, at a bathroom sink faucet. The water flows at a greater or lesser velocity depending on the pressure applied to it through mechanical means.

As long as a pipe is pressurized but no faucet is open, the water will remain static and can move in one direction or another without encountering any resistance. With no outlet flow, the only force affecting it, in this case, is that of Hydroloop®.

If you open the faucet while Hydroloop® is operating, the water that is intended to return through the cold water pipe towards the heater will exit through the same faucet.

In summary, pressure in an open circuit has a flow exerted by a pumping device, gravity, the atmosphere, etc. In a closed circuit, the flow is provided by Hydroloop®.