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One Detailed Discussion About Peristaltic Pump and Fire Pump by [Joseph Paul](#)

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Peristaltic pumps work on the positive displacement method and they are used for pump sterile and aggressive fluids. This kind of pump works on the method of peristalsis and this type of method is found in the natural phenomenon present living organisms like, in the human's esophagus. We can see the presence of different shoes in this pump and usually two shoes are present for compressing the flexible tubing along round pump casing circumference. If this Peristaltic Pump is found with two shoes, then the distance between two shoes is known to be stable.

Due to the stable distance between two shoes, we can see one vacuum for suction, in spite of the rotation per minute of the motor. Fluid isolated during this entire process is known to be very important in this particular field. When any amount of fluid entrapped at the stage of vacuum generation is directly proportional to the generated vacuum. The flow rates of the Peristaltic Pump are found to be very short over three sequential constrictions of the tube.

Fire pump is known to be one integral part of the fire sprinkler system's water supply. This kind of pump is powered by steam, diesel or electric. Intake of this pump is either connected to the static water source (like, tank, reservoir, lake etc.) or to the public underground water supply piping. This mechanical device pumps out water flow at very higher pressure to the sprinkler system risers and hose standpipes. This kind of pump is examined and listed for its use, specifically for fire service by a listing agency and third-party testing. This kind of pump is generally powered either by an electric motor or steam turbine or a diesel engine.

When the fire pump starts, the pressure in the fire sprinkler system goes down below the threshold. Pressure on the sprinkler system goes down suddenly, when one or more fire sprinklers get exposed to the heat above their design temperature. And, it opens to release the water. Also, other fire hoses reels or any other firefighting connections are opened, which can cause pressure drop in the firefighting main. There are different types of pumps used for fire service like, vertical split case, horizontal split case, vertical turbine, vertical inline and end suction. Different fire pumps are required when the local municipal water system cannot ensure sufficient pressure, which is required to meet the requirements of the hydraulic design of fire sprinkler system.

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