

VOLUTE

The volute is the housing that encloses the impeller. The volute will collect and direct the flow of the liquid from the impeller, this will increase the pressure of the high velocity water flowing from the vanes of the impeller.

IMPELLER

The impeller is a rotating disk that contains vanes that are coupled to the water pumps crankshaft. All centrifugal water pumps will have an impeller. So what does the impeller do? The vanes on the impeller will sling liquid outward through the centrifugal, causing the pressure to change. The pressure change results in liquid flowing through the pump.

ELEVATION

This is pretty much the same as our Tardis tanker. The relevance of the elevation height depends on the application itself. See below.

SUCTION HEAD

This is the height between where the water is being pumped from and how high the water is to the water level.

DISCHARGE LEAD

This is the height between the water pump and the highest point to where the outlet pipe is located.

HEAD LOSS

This is the resistance of the pipe governed by the length of the hose, diameter of hose and if there are any twisted sections within the length of the hose.

TUFWP – MAR 2017