

SNS COLLEGE OF TECHNOLOGY

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Department of Mechanical Engineering

Pumps and their types

PUMPS: A pump may be defined as a hydraulic machine which converts mechanical energy into hydraulic energy. The hydraulic energy is in the form of pressure energy.

CLASSFICIATION OF PUMPS:

PUMPS: Dynamic Pressure pumps and Positive displacement pump

Centrifugal pumps Reciprocating pump

Dynamic Pressure pump: Dynamic pressure pumps (Roto dynamic pumps)

Dynamic pressure pumps are those which use the centrifugal force acting on the fluid, to move the fluid from low pressure to higher pressure. The main principle involved in these types of pumps is conversion of mechanical energy into pressure energy by the application of centrifugal force of the fluid. A good example of this type of pump is Centrifugal pump.

Positive Displacement pumps:

Positive displacement pumps are those which use the reciprocating motion exerted on the fluid from lower pressure to higher pressure. The main principle involved in these types of pumps is conversion of mechanical energy into pressure energy by exerting thrust on the fluid through reciprocating motion. A good example for this type of pump is Reciprocating pump.