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FIRE FIGHTING PUMP

A fire pump is a part of a fire sprinkler system's water supply and can be powered by electric, diesel or steam. The pump intake is either connected to the public underground water supply piping, or a static water source (e.g., tank, reservoir, lake). The pump provides water flow at a higher pressure to the sprinkler system risers and hose standpipes. A fire pump is tested and listed for its use specifically for fire service (by a third-party testing and listing agency if required)

OPERATION:-

Fire pumps may be powered either by an electric motor or a diesel engine, or, occasionally a steam turbine. If the local building code requires power independent of the local electric power grid, a pump using an electric motor may utilize, when connected via a listed transfer switch, the installation of an emergency generator.

The fire pump starts when the pressure in the fire sprinkler system drops below a threshold. The sprinkler system pressure drops significantly when one or more fire sprinklers are exposed to heat above their design temperature, and opens, releasing water. Alternately, other fire hoses reels or other firefighting connections are opened, causing a pressure drop in the fire fighting main.

Fire pumps are needed when the local municipal water system cannot provide sufficient pressure to meet the hydraulic design requirements of the fire sprinkler system. This usually occurs if the building is very tall, such as in high-rise buildings, or in systems that require a relatively high terminal pressure at the fire sprinkler in order to provide a large volume of water, such as in storage warehouses. Fire pumps are also needed if fire protection water supply is provided from a ground level water storage tank.

Types of pumps used for fire service include: horizontal split case, vertical split case, vertical inline, vertical turbine, and end suction.



JOCKEY PUMP:-

A jockey pump is a small pump connected to a fire sprinkler system and is intended to maintain pressure in a fire protection piping system to an artificially high level so that the operation of a single fire sprinkler will cause a pressure drop which will be sensed by the fire pump automatic controller, causing the fire pump to start. The jockey pump is essentially a portion of the fire pump's control system.

APPLICATION:-

- Petroleum, Oil and gas,
- Refineries, various depots / terminals and Installation
- various offshore Installations.
- Hotels, Shopping and Housing complexes all over the country.
- Commercial Complexes
- High rise Buildings
- Airports and ports
- Oil and Gas on shore and off shore platforms
- Power stations and transformer stations
- Petroleum and petrochemical complexes
- Warehouses
- Manufacturing and chemical Industry

RANGE:-

Capacity :- 3000 US GPM,

Head :- 348 PSI,

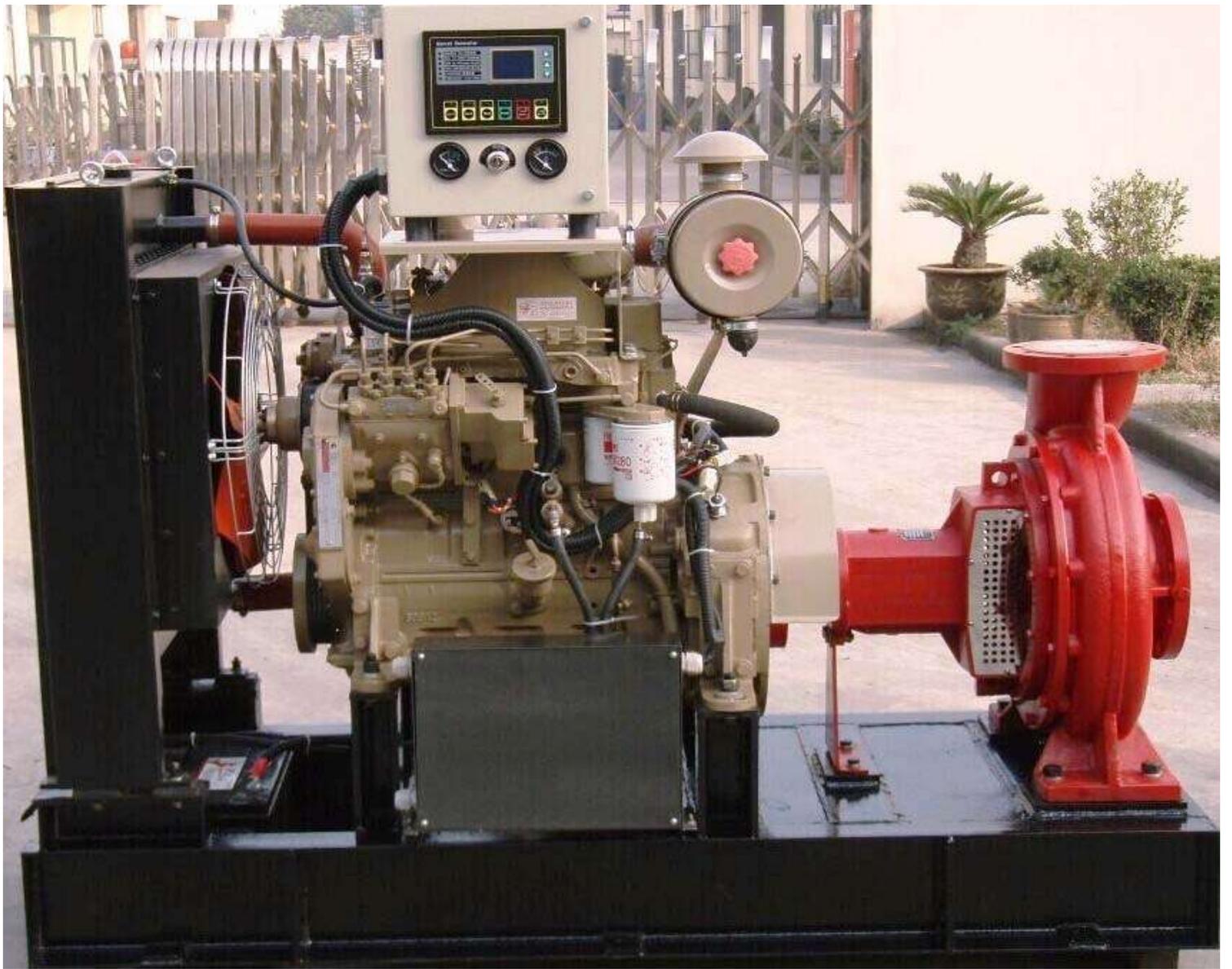
RPM:- AS Per Your Requirement

Frequency :- 50 Hz / 60 Hz

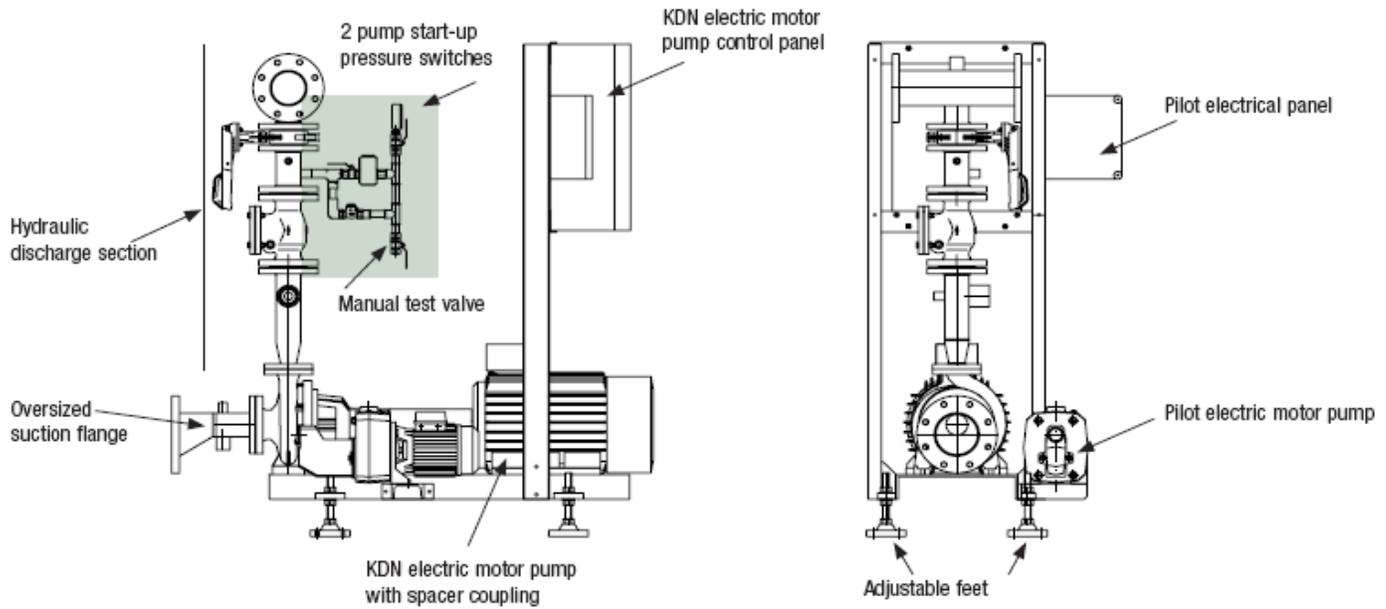
In India ,the pump manufacturers generally adhere to the TAC

(Tariff Advisory Committee) Guidelines , Although pump manufacturers may also obtain listing with UL OR FM Global.

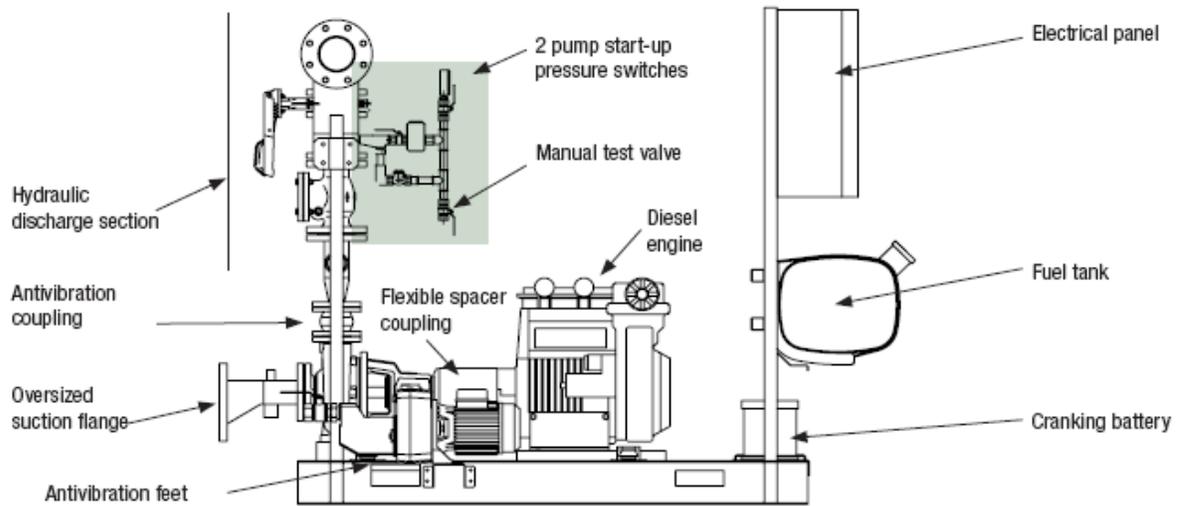




EN ELECTRIC PUMP UNIT



DIESEL ENGINE MOTOR PUMP UNIT



UNIT EN ELECTRIC MOTOR PUMP EN DIESEL MOTOR PUMP

