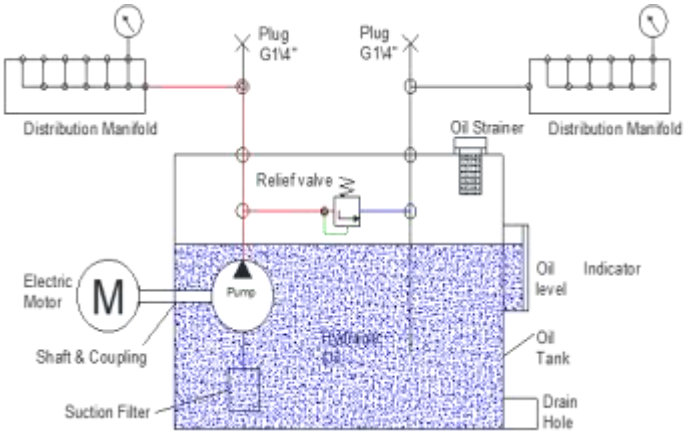
Hydraulic Power Pack



Function

Hydraulic power pack is a system, which comprise of hydraulic components to generate and control the oil out of system. The key element includes power source, prime mover, pump, oil tank & other accessories.

Electric motor or Prime Mover: These are typically power source which provides rotary input power to the hydraulic pump. Either electric motor or Engines are used as power source in any hydraulic power pack.

Pump: Hydraulic Pumps are connected to electric motor by means of shaft through coupling & Bell housing. Based on flow capacity & motor rpm, they generate oil flow. They can be immersed in pump or mounted on tank, based on type & construction.

Oil Tank & Accessories: Tanks are the structure which contains the hydraulic oil. Multiple accessories are used for oil conditioning (filter/strainer), oil level indicator, breather, drain port for draining the oil out.

Valves: There can be multiple hydraulic valve, which can be mounted on hydraulic powerpack. And minimum it need a pressure relief valve. There are 3 type of valves directional control, Pressure control & Flow control type.

Manifold: Hydraulic oil needs to get distributed to different parts of circuit for which manifolds are used. They can be mounted on to tank or remotely mounted on system by means of hoses or piping.

Scope of Supply

Power pack (50 Bar) consist of

1. Gear Pump with minimum 10 LPM
2. Relief valve.
3. Electric Motor: 1.0 HP 1440 RPM 230VAC
4. Cast Aluminum Tank: 40 liters
5. Oil Breather

6. Oil level indicator
7. Suction filter / Strainer
   Gear Pump & Relief valve