

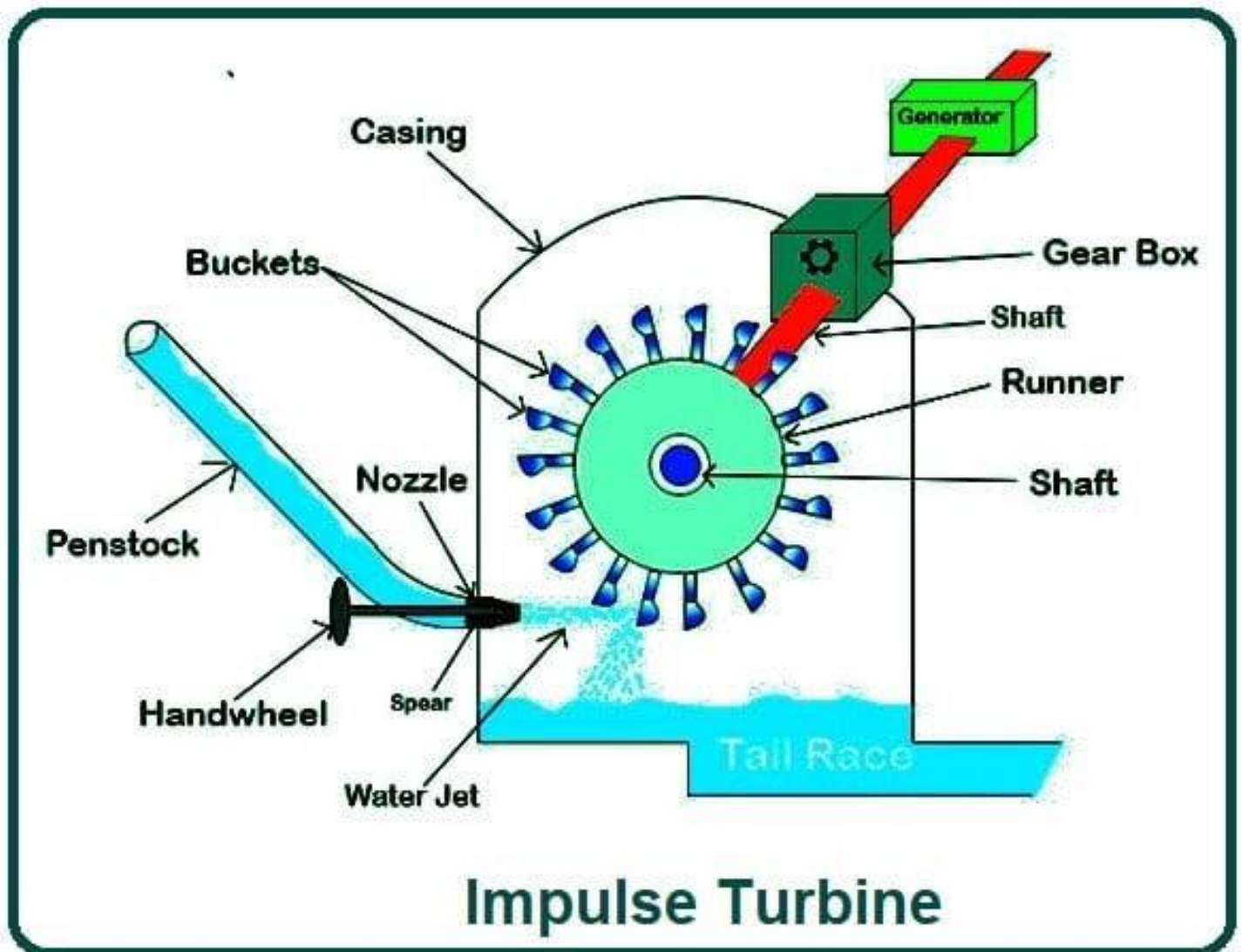
TEACHING LEARNING MATERIAL

SUBJECT - HMFP

BRANCH - MECHANICAL

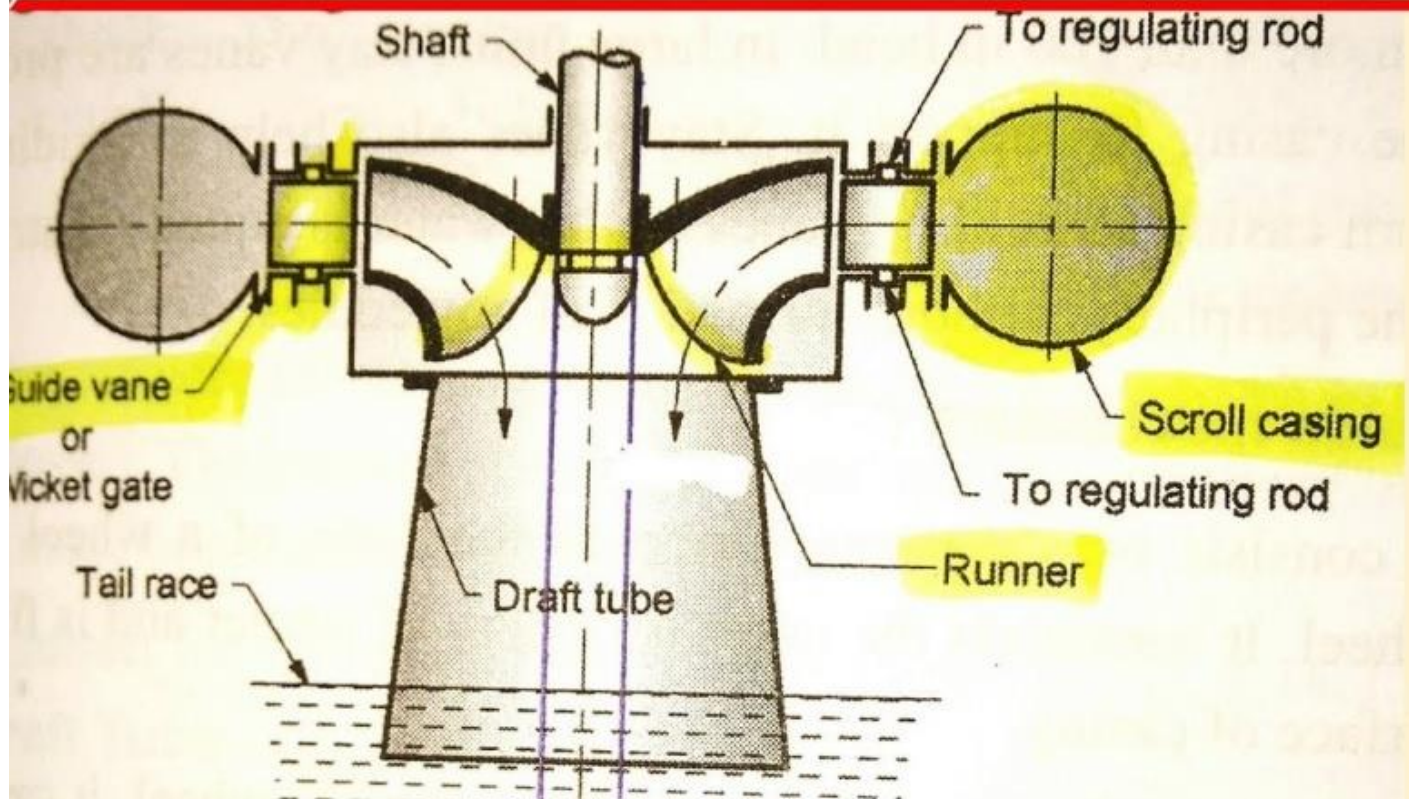
SEMESTER - 5TH

1. IMPULSE TURBINE (PELTON WHEEL) -

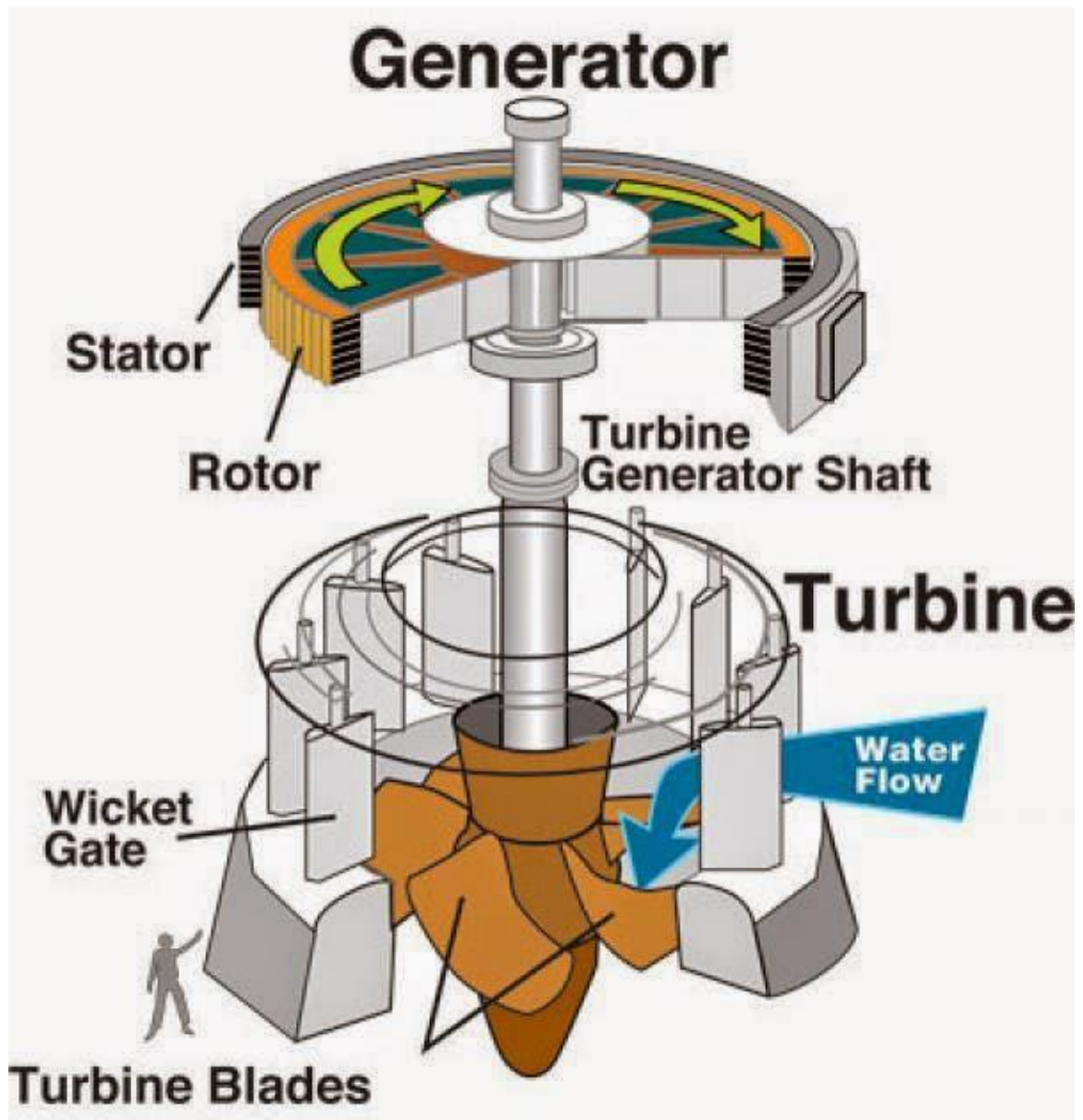


2. FRANCIS TURBINE –

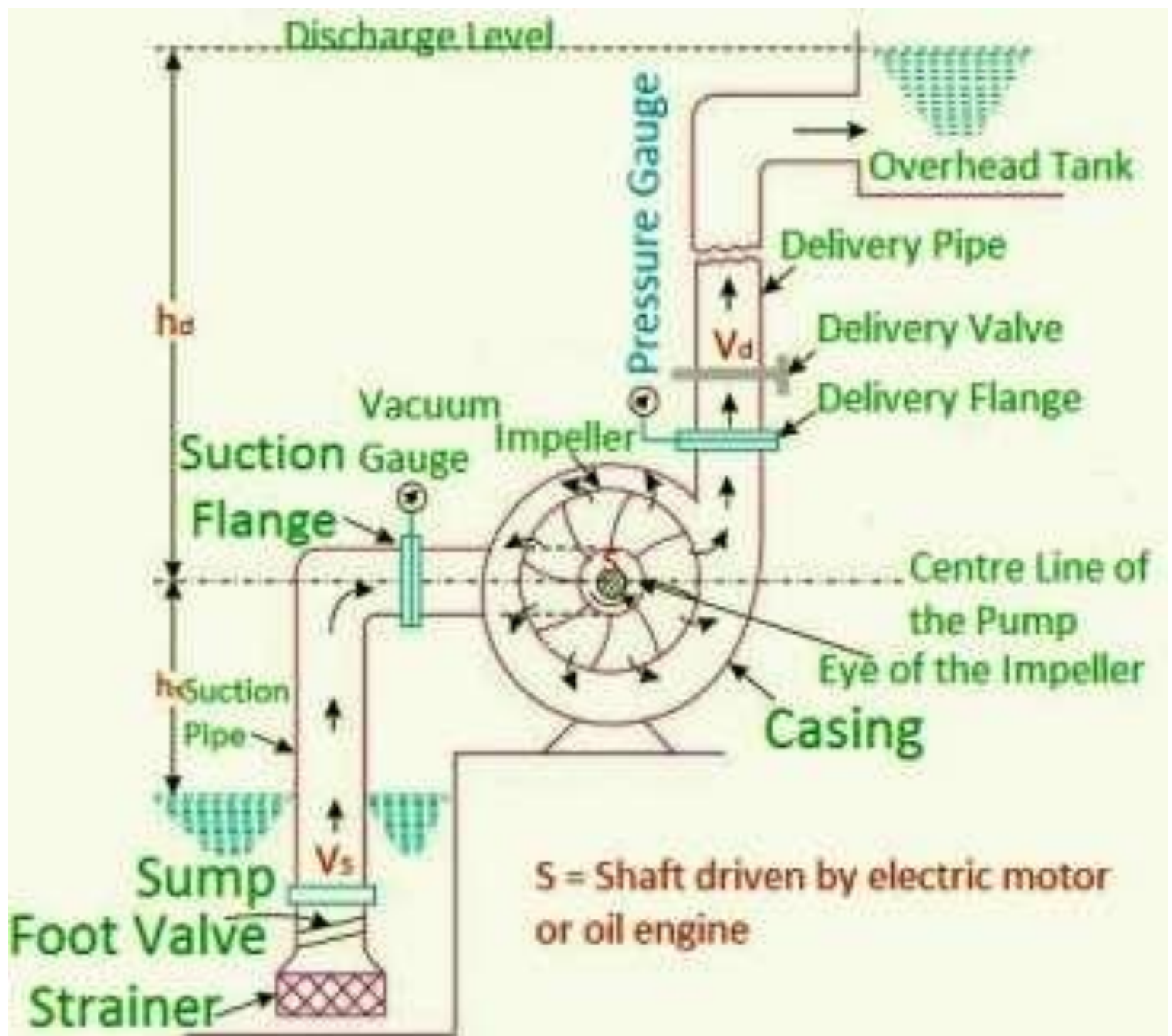
Francis Reaction Turbine



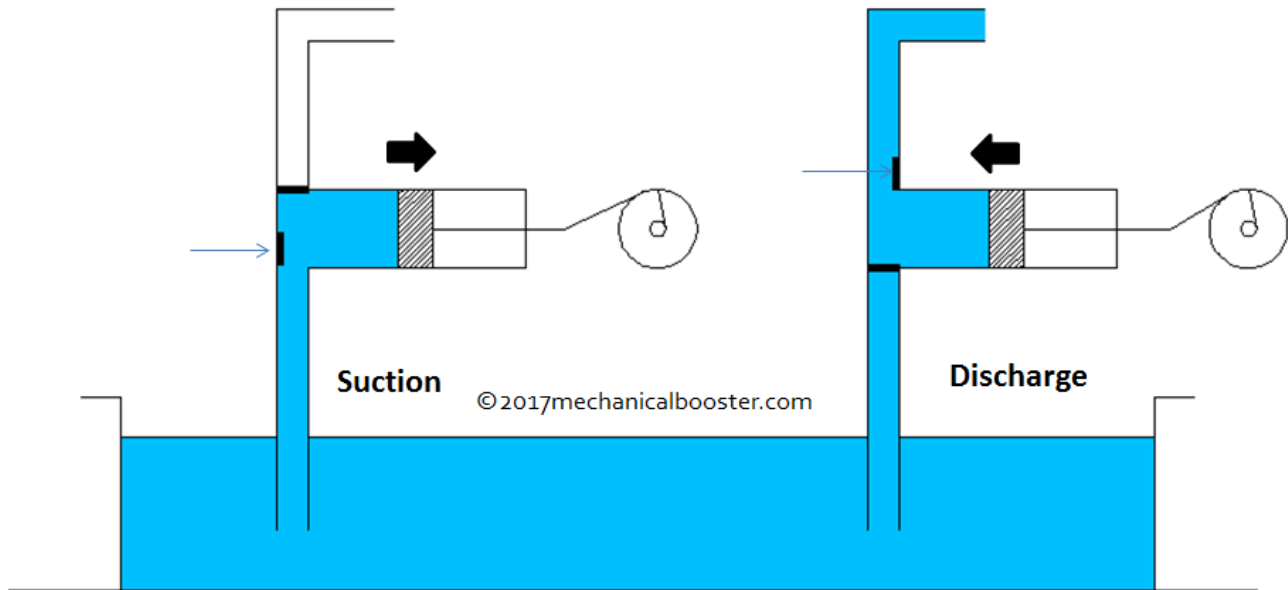
3. KAPLAN TURBINE –



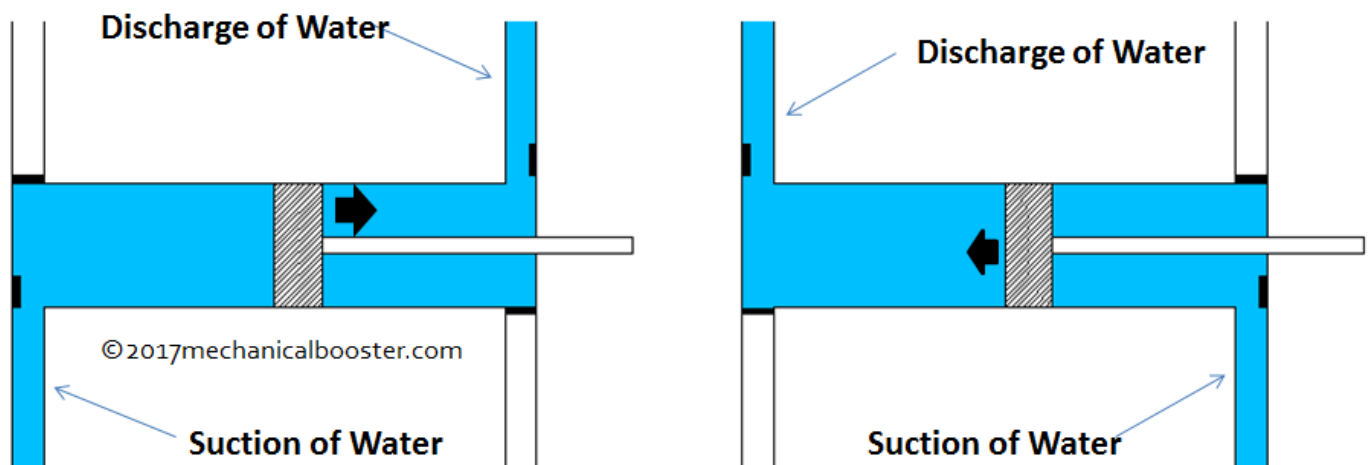
4. CETRIFUGAL PUMP -



5.RECIPROCATING PUMP -



Single Acting Reciprocating Pump



Double Acting Reciprocating Pump

6.PNEUMATIC VALVES -



**Sequence
Valve**



**Pressure Reducing
Valve**



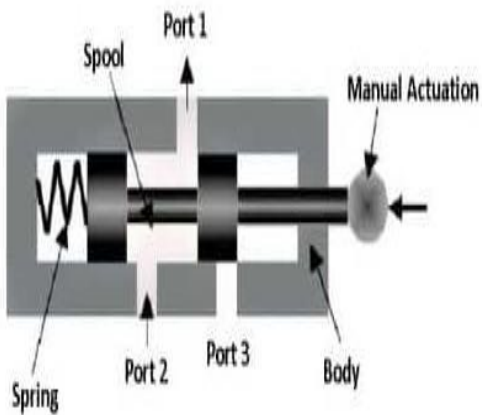
**Pressure Regulator
Valve**



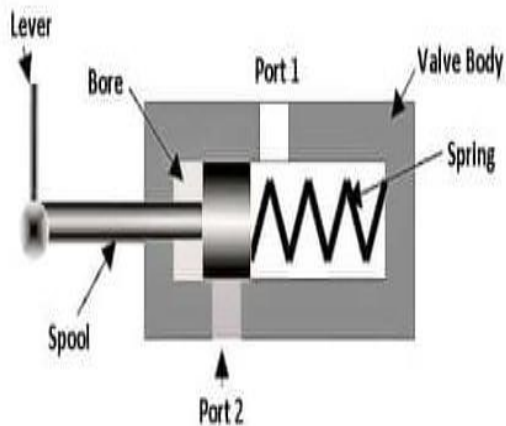
**Direction Control
Valve**



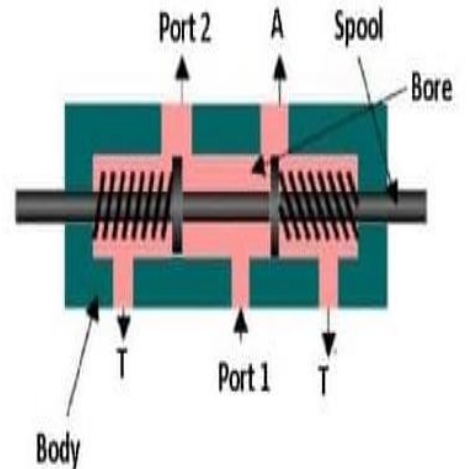
**Flow Control
Valve**



3-way Direction Control Valve



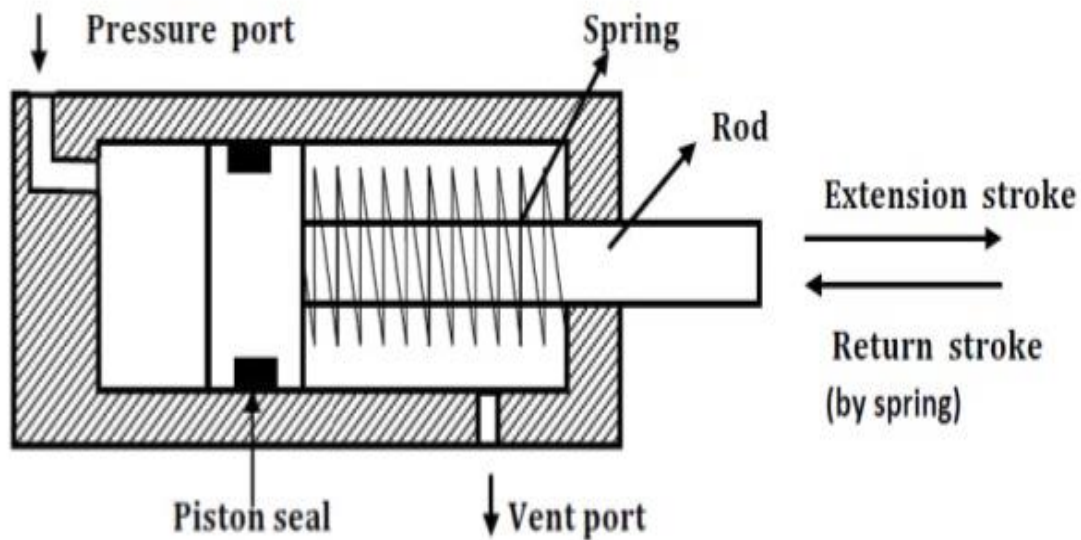
2-way Direction Control Valve



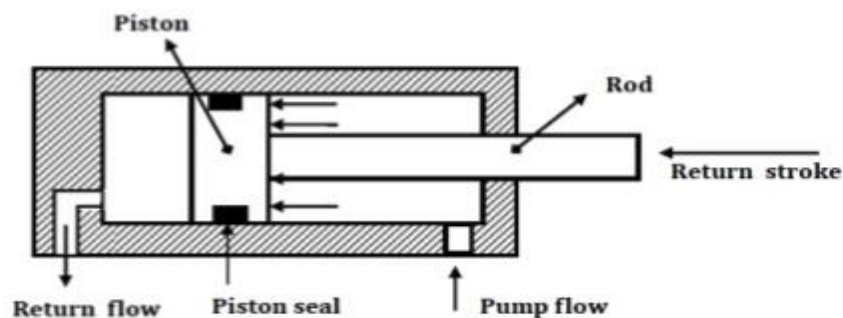
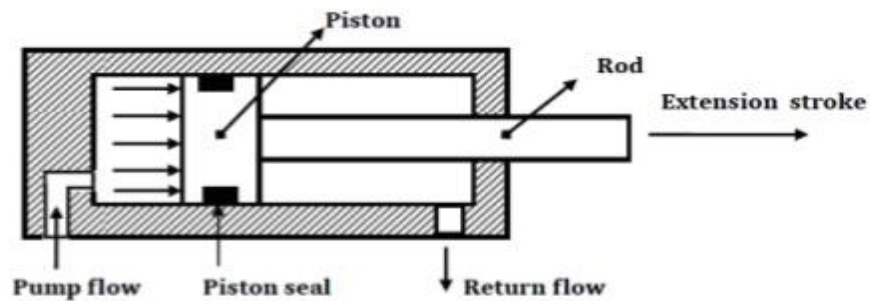
4-way Direction Control Valve

7.PNEUMATIC CYLINDER S –

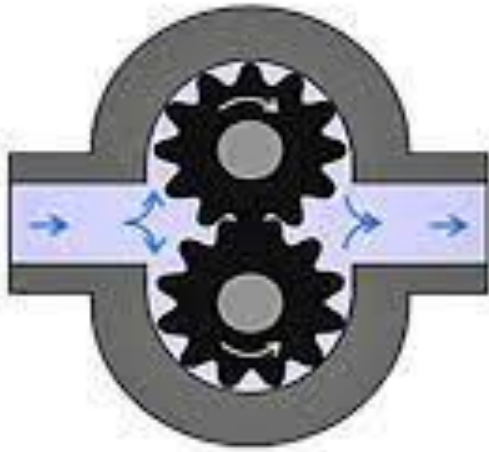
SINGLE ACTING CYLINDER



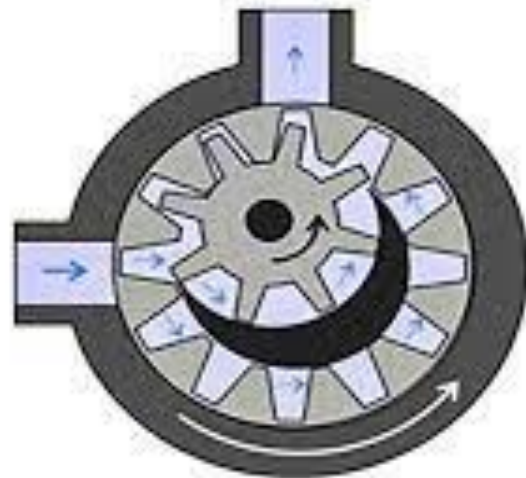
DOUBLE ACTING CYLINDER



8. GEAR PUMP –



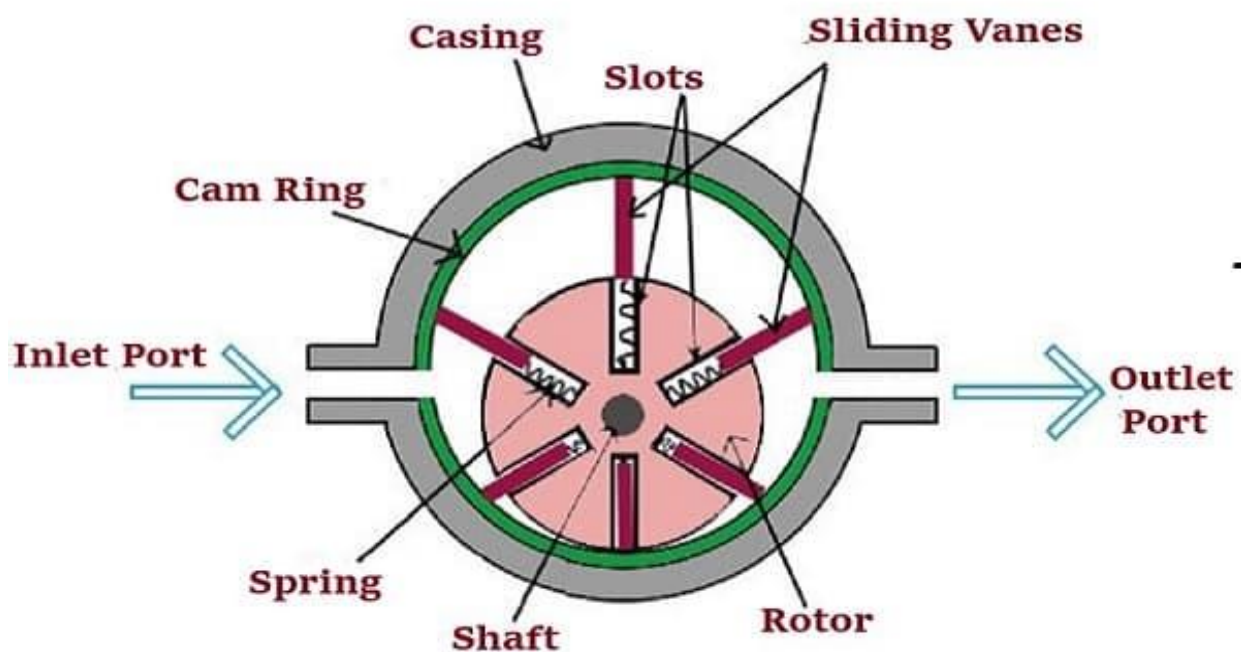
External Gear Pump



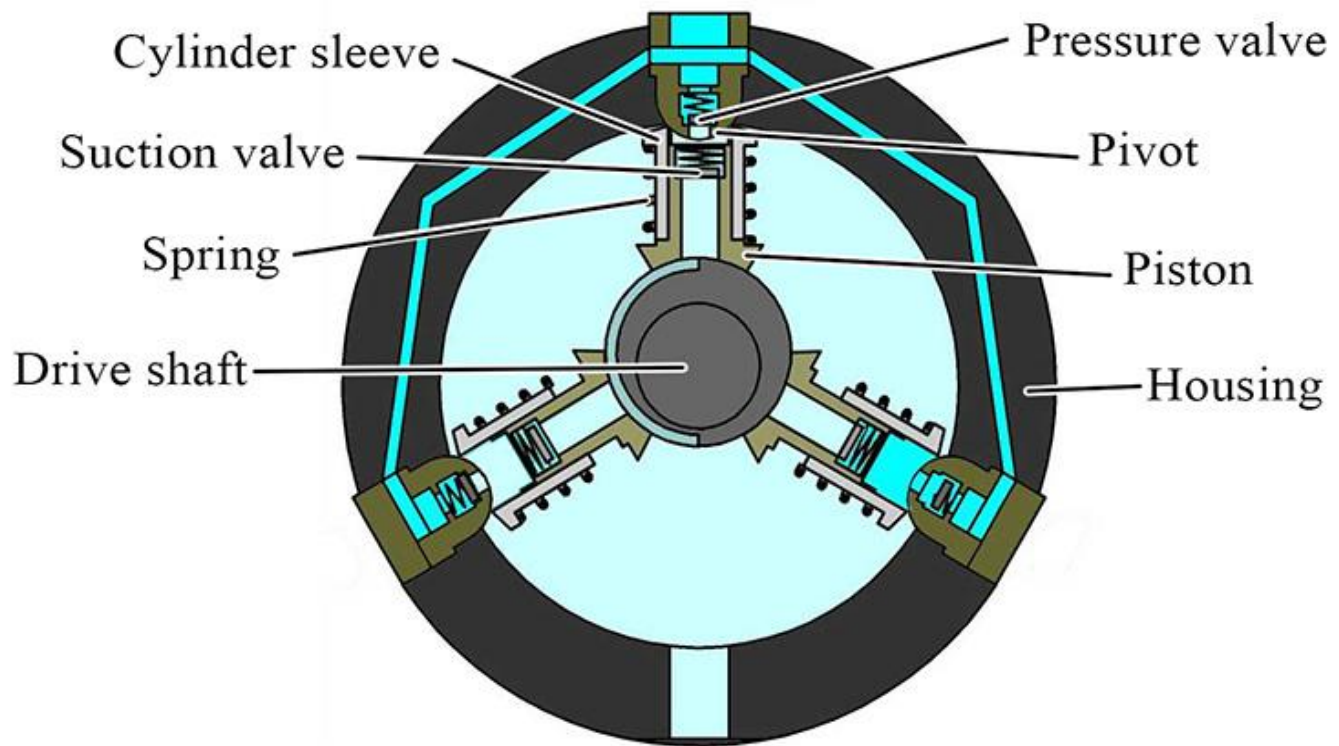
Internal Gear Pump

9. VANE PUMP –

Vane Pump Components



10. RADIAL PISTON PUMP –



11. METERING IN AND OUT VALVE-

