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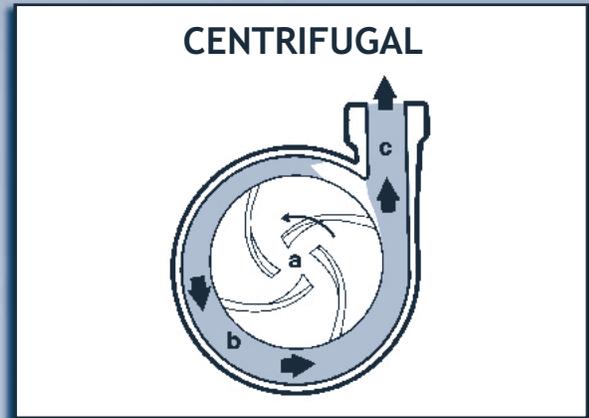
BACK

HOW IT WORKS:

- Liquid enters the inlet port of the pump through gravity or priming and is directed towards the center of the impeller.
- The rotating impeller uses centrifugal force to add velocity to the liquid as it is slung off the edges of the blades into the volute casing.
- The volute configuration converts the velocity energy into static pressure or available pump head as the liquid leaves the discharge port.

FEATURES:

- High Volume Flow:** centrifugal pumps deliver a high volume of flow with smooth, non-pulsating delivery
- Low Maintenance:** wear due to operation is minimal, are easily disassembled and have few moving parts
- Low Power Consumption:** most efficient pump for moving large volumes of liquid

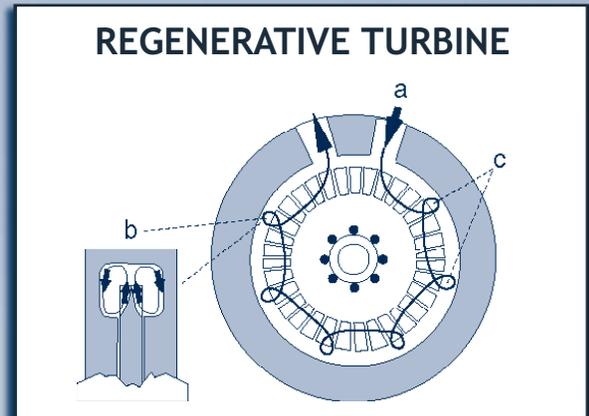


HOW IT WORKS:

- Liquid enters the suction port (a) and is pushed forward by the blades of the impeller (b) in an orderly circular flow around the periphery of the housing.
- The circular liquid flow in the side channels (c) occur many times during one revolution resulting in 10 times or more discharge pressure than from a similar diameter impeller turning the same speed in a centrifugal pump.

FEATURES:

- High Head/Low Flow:** Produces high head at low flow without damaging pump components
- Continuous Duty:** Designed to run 24 hours a day, 7 days a week
- Compact:** More compact than multistage centrifugals that deliver the same flow and head
- Entrained Air Handling:** up to 20%

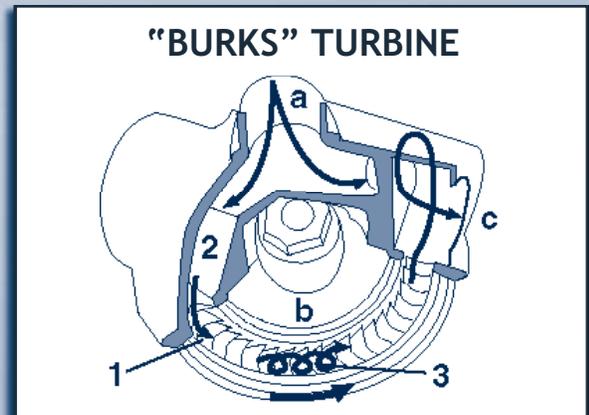


HOW IT WORKS:

- As the liquid is removed by the impeller (1) from the inlet raceway (2), additional liquid is drawn in.
- The blades of the impeller (1) capture liquid from the inlet raceway (2) adding energy to the liquid (3) as the liquid is propelled toward the outlet.
- Liquid is forced out through the outlet port as additional liquid is deposited by the impeller.

FEATURES:

- High Pressure:** turbine pumps will deliver non-abrasive, low viscosity liquids in applications requiring high pressure and low flow
- Low Maintenance:** with its seal being the only contacting part, little maintenance is required, even in continuous duty applications
- Self-priming Option:** configurations are available that include a liquid chamber that enables self-priming



HOW IT WORKS:

- As the crankshaft (1) rotates, the connecting rod (2) pulls back the plunger (3) from the liquid chamber (4) within the manifold which increases the chamber's size. This creates a vacuum that draws in liquid through the inlet valve (5).
- As the crankshaft's rotation continues, the connecting rod (2) pushes the plunger (3) toward the liquid chamber (4) reducing the chamber's size. This forces the liquid out the discharge valve (6).

FEATURES:

- High Pressure:** pressures of up to 15,000 psi can be achieved
- Clean Liquids:** closed fitting components require clean non-abrasive liquids
- Durable:** ceramic plungers and an oil filled crankcase ensures a long operating life

