

CLOVE-ROTOR PUMP

DESIGN

The CLOVE-ROTOR Pump incorporates one main rotor closely fitted into a machined cylindrical housing. Spiral cavities are formed in the cylindrical center section of the main rotor. Stock is screw-fed into the rotor cavities and is carried around the interior of the housing to the pump discharge. CLOVE-ROTOR petals discharge stock from the main rotor cavities while isolating the inlet compartment from high discharge pressure. Pump parts that are in contact with corrosive or abrasive stocks are constructed of special wear resistant materials to suit the standard, high consistency or abrasive service conditions found in the mills.

OPERATING ADVANTAGES

The CLOVE-ROTOR will pump a wide range of stock consistencies and has the ability to pump water for flushing stock lines. Discharge is rated at up to 150 psi for stock transfer to taller more remote high-density storage towers. Continuous, steady flow is insured by the unique rotor design combined with an oversized integral feeder, minimizing pulsing in the discharge piping. The CLOVE-ROTOR Pump runs with minimal vibration as its main rotor delivers a uniform stock flow without damaging pressure pulses or excessive vibration.

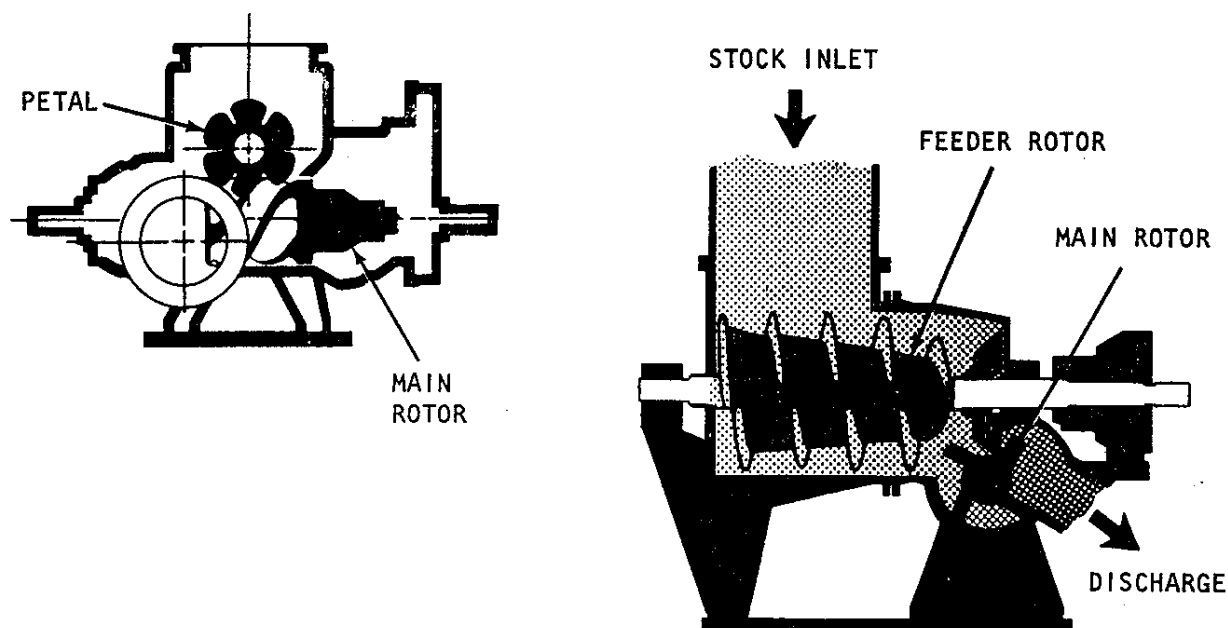


FIGURE 1-1. CLOVE-ROTOR PUMP DESIGN