

SLURRY PUMPS FIG - 540



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**FLOWMORE
PUMPS**

An ISO 9001 Company

- A TRUSTED NAME IN PUMPS

AQUASEAL PUMP

FLOWMORE make aqua seal pumps are heavy and mining duty horizontal pumps-range offers the newest and widest range of world class hared metal slurry pumps for abrasive pumping application. These pumps are with rugged design for efficient performance, long life and economical operation and may be used for pumping mixtures of solid materials in liquid in mining, dredging and for Coal-Ash in Steam boiler plants.

The initial high efficiency of the pump and characteristics are maintained due to the "AQUASEAL" principle which prevents abrasive material from entering and enlarging the running clearances between the rotating impeller and stationary parts from the abrasive-laden water. The stream water pressure is regulated by a globe valve.

The AQUASEAL pump functions with either a positive suction head or a suction lift to handle pieces of solid material. The discharge end of the pump can be mounted at a number of angles resulting in arranging of the discharge line to best advantage.

VERIABLE SPPEED-DRIVE

A special variable speed V-belt drive can be provided whereby pump speeds may be adjusted within desired limits to improve the discharge which might have been reduced due to wear on the impeller, in course of time.

CONSTRUCTION FEATURES:

- Nihard alloy parts coming in contact with liquid.
- Alloy steel shaft
- Stainless steel shaft sleeve for less wear
- Asbestos gaskets
- Water sealing arrangement on Back-head etc.

TYPICAL APPLICATIONS

- Coal and power plant ash
- Mining and mineral processing
- Highly abrasive slurries
- Mine refuse and tailings
- Industrial processing
- Mill discharge
- Sand and gravel
- Mining duty abrasive slurries
- In-plant slurry transfer pump
- Lime slurry
- Alumina

MATERIALS OF CONSTRUCTION

LIQUID-END: All components in contact with water containing abrasive material are manufactured from high quality, abrasion resistant alloy iron having a minimum Brinnel hardness of 500. The un-usual resistance to wear and superior hardness of this material assures long life and improved resistance to the action of abrasive material, resulting in substantial operating economies.

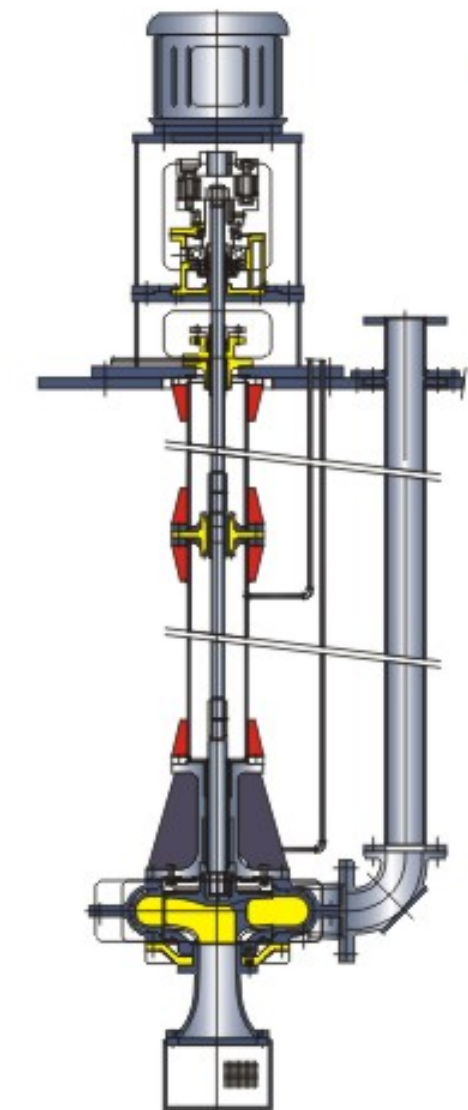
EFFICIENCY: Liners and impellers are manufactured from special alloys to close tolerances which allow to achieve very high efficiency.

SHAFT: A precision machined, heavy duty, alloy iron Shaft ensures smooth-running operation of the AQUASEAL pump. The shaft is protected from any wear inside the gland by hard metallic sleeve.

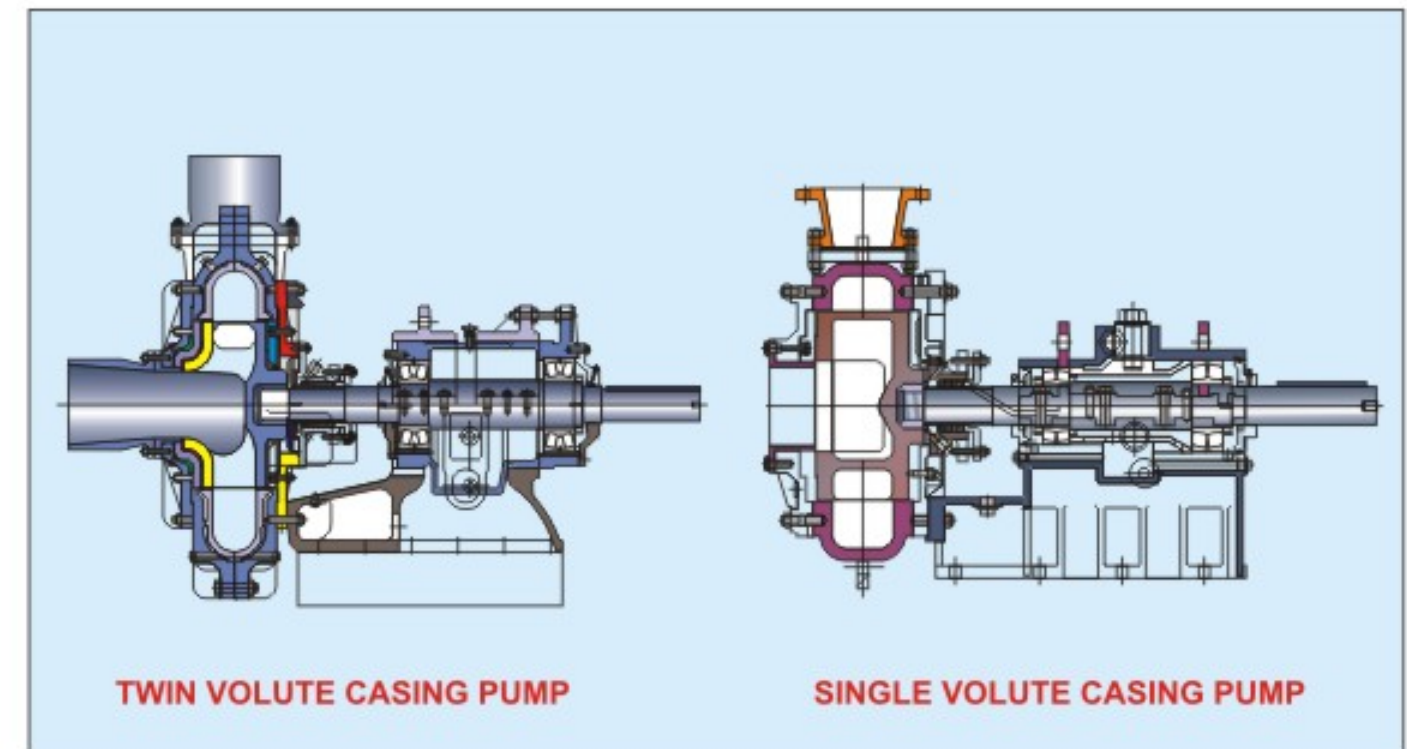
BEARINGS: extra large size Bearings have been selected to support Shaft, for extra long lift requiring minimum of maintenance.

OPTIONS AVAILABLE:

- Single volute casing and Twin volute casing
- Expeller
- Mechanical seals
- Water sealing on both suction and back head sides
- Variable pulley for speed adjustment



VERTICAL PUMP



TWIN VOLUTE CASING PUMP

SINGLE VOLUTE CASING PUMP