VANE PUMP

Product Features

Vane Pump's rotor is located on and shares the same axis of pump shaft. However, rotor housing is eccentric and on a different axis. Vanes are located inside pump rotor and allowed to move in and out of it by springs. Such movement, permits vanes to transfer liquid between rotor and casing.

With every revolution of pump shaft, a certain amount of the liquid enters in and fills the gap between rotor and casing. When rotation begins, vanes starts to forward the liquid by pushing it towards pump discharge port and achieves liquid delivey with required pressure.

Use Areas

- Chocolate Transfer
- Sugar Syrup Transfer
- Cream Transfer

Material Options

- **Pump Casing:** Cast iron
- **Rotor:** Steel
- **Rotory Vane:** Steel
- **Bearings:** Snbz 12 bronze, Ball bearing,
- **Sealing:** Soft seal (packing gland), Lip seal.

Working Principles

Liquid enters the pump from suction port.

Liquid traped between rotor and casing moves forward to discharge port.

Liquid is delivered out of pump from discharge port by a single rotation.

Frequently Asked Questions

– Rotating Direction

Vane pumps rotate counter-clockwise when observed from coupling side. Suction side is left and discharge side is the top. By running for a very short period, pump rotation direction should be checked for following direction of the arrow.

Vane pumps can not be operated in revert direction.