

SCREW PUMP

APPLICATIONS

• The main components which characterize the pump are a metallic single helical rotary part ROTOR and fixed double helical resilient polymer part STATOR in which the rotor turns and thereby a complex progressive sealing line (cspl) is maintained. Whilst the rotor rotates inside the stator, the cavities formed between them progresses from suction to discharge end, gently carrying the media.

DRIVE ARRANGEMENTS

• DIRECT drive electric motor, geared motor, gear box, Mechanical Speed Variator, Eddy Current DC Drive, Hydraulic, Pneumatic, Petrol & Diesel Engines.

• For accurate and variable flow rates, AC Variable frequency Drives can be used.

SPECIFICATION

- **Flow Rate** : UP TO 100 M³ / Hr
- **Differential Pressure** 24 Bar
- (for more system pressures, contact factory assistance)
- **Viscosity** : UP TO 1,00,000 cst
- **Temperature** : UP TO 150°C
- **Suction Lift** : 8 mlc Max



MATERIAL OPTIONS

- **Housing Parts** : AISI304, AISI316, AISI316L
- **Rotor & Shaft** : AISI304, AISI316, AISI316L
- **Stator** : NBR, HNBR, EPDM, CSM, Q

white, food grade, abrasion resistant & high temperature resistant variants.

TRIPLE SCREW PUMP & TWIN SCREW PUMP

FEATURES

- Separate Screw and Shaft Assembly.
- Combination of material possible for screw & shafts.
- Independent Material of construction for Screw & Shaft respectively.
- Replacement needed for damaged part only.
- Change in performance characteristics possible by changing screws only.
- Change in pump design possible from long shaft to small shaft and Vice versa.
- Compact Design.
- Extremely good suction capability.
- Various Combinations Of Materials available.
- Pumps With Replaceable Liners.
- Partial/Full Heating Jacket Available In Various Designs.
- Different Sealing Arrangements Possible.
- Low NPSH Requirement.
- Casing Available in different Cast And Fabricated Design.
- Low maintenance cost.

APPLICATIONS

- Triple Screw Pumps with external or internal bearing are available in horizontal or vertical constructions, with or without heating arrangements and have single mechanical seals for shaft sealing.
- They handle all neutral lubricating liquids, have a compact space saving design and are self priming. Due to the precise manufacture of the screws and their profile, the possibility of getting a high suction lift is ensured. They operate continuously and run noiselessly.

