THE BASIS
PRODUCT GROUP N
AN ESSENTIAL.

Product group N pumps are the model for the design of all SEEPEX progressive cavity pumps. They are used in all industries and convey thin to highly viscous liquids with or without solids. They are available with various rotor/stator geometries (conventional, 6L, Tricam and Equal Wall). These benefits and others ensure the pump’s economical operation.

OVERVIEW OF RANGES

**NS RANGE**

The drive of NS range pumps is flange-mounted directly to the pump. This means that a separate pump housing is still necessary and the pump is more compact and ease operation. The plug-in shaft connection between the drive and rotating unit simplifies the replacement of the rotating wearing parts and the shaft sealing, thereby making the NS range very service-friendly.

**BN RANGE**

BN range pumps have drives not directly flange-mounted to the pump. Bare shaft designs can fit any drive the user desires including diesel engines or hydraulic motors. The drive casing can accommodate elastic couplings or belt pulleys and still has a service-friendly plug-in shaft connection. This connection simplifies the replacement of the rotating wearing parts and the shaft sealing.

**DRY RUNNING PROTECTION TSE**

Thermoelectronic sensor

Prevents the stator from being damaged by dry running. Optionally available.

**PRODUCT GROUP N**

**STATOR**

The seal on both ends is molded as an integral part of the elastomer. Corrosion of the stator tube is prevented as the pumped liquid does not come in contact with the metal tube or the bonding adhesive. Available with an adjustable stator retensioning device.

**DRIVE CASING**

For NS range, drive shaft and bearings can be lubricated. Available with double bearing seals to prevent ingress of dust or moisture.

**PRESSURE BRANCH**

Connection for pressure instruments. Flange connections in DIN or ANSI.

**SUCTION CASING**

With large cross section, drain plug and connections for pressure instruments. Designed for laminar flow conditions. Flange connections in DIN or ANSI can be rotated in 90° increments.

**COUPLING ROD**

For power transmission, improved design, optional designs with augers or paddles are available.

**SUCION CASINO**

For power transmission, improved design, optional designs with augers or paddles are available.
APPLICATIONS

Product group N pumps form the basis of the modular concept that supports all SEEPEX progressive cavity pumps. They are ideal for applications in agriculture, ceramics, chemicals, biochemicals, construction, dyeing, paints, electroplating, environmental technology, fish processing, food, beverages, bakery dough and fillings, mining, inorganic minerals, oil and natural gas production, offshore technologies, cosmetics, petrochemicals, pharmaceuticals, pulp and paper, shipbuilding, sugar refining, water and wastewater treatment, textiles, glues, adhesives, mastics and sealers in the transportation and construction markets.

FEATURES

- Various rotor/stator geometries (conventional, 6L, Tricam and Equal Wall)
- Minimal pulsation, uniform and controlled flow. No pulsation dampeners or compensators are required.
- High self-priming capabilities even with a mixture of liquid and air/gas up to a 9 m (29.5 ft.) water column
- Can be mounted either horizontally or vertically, suction casing inlet can be rotated
- Large spherical entrance ports for improved solids handling
- Products with solids can be conveyed gently without damage
- Reversible rotation and fluid flow to improve the NPSHr and sealing
- Low shear rates

KEY FACTS

- Conveying capacity: 30 l/h–500 m³/h (0.132–2,200 USGPM)
- Pressure: up to 96 bar (1400 psi)