

The SOMA SCN series

The SOMA SINUSOIDAL Positive Displacement Pump works according to the Sinusoidal PUMP principle, which was developed by Manfred Sommer in 1982.

The Sinusoidal curve shaped rotor is fitted on a pump shaft. Due to the design, four chambers are created in which the product will be transferred very gently - without any shear or damage to the product.

A scraper divides the suction and the pressure side.

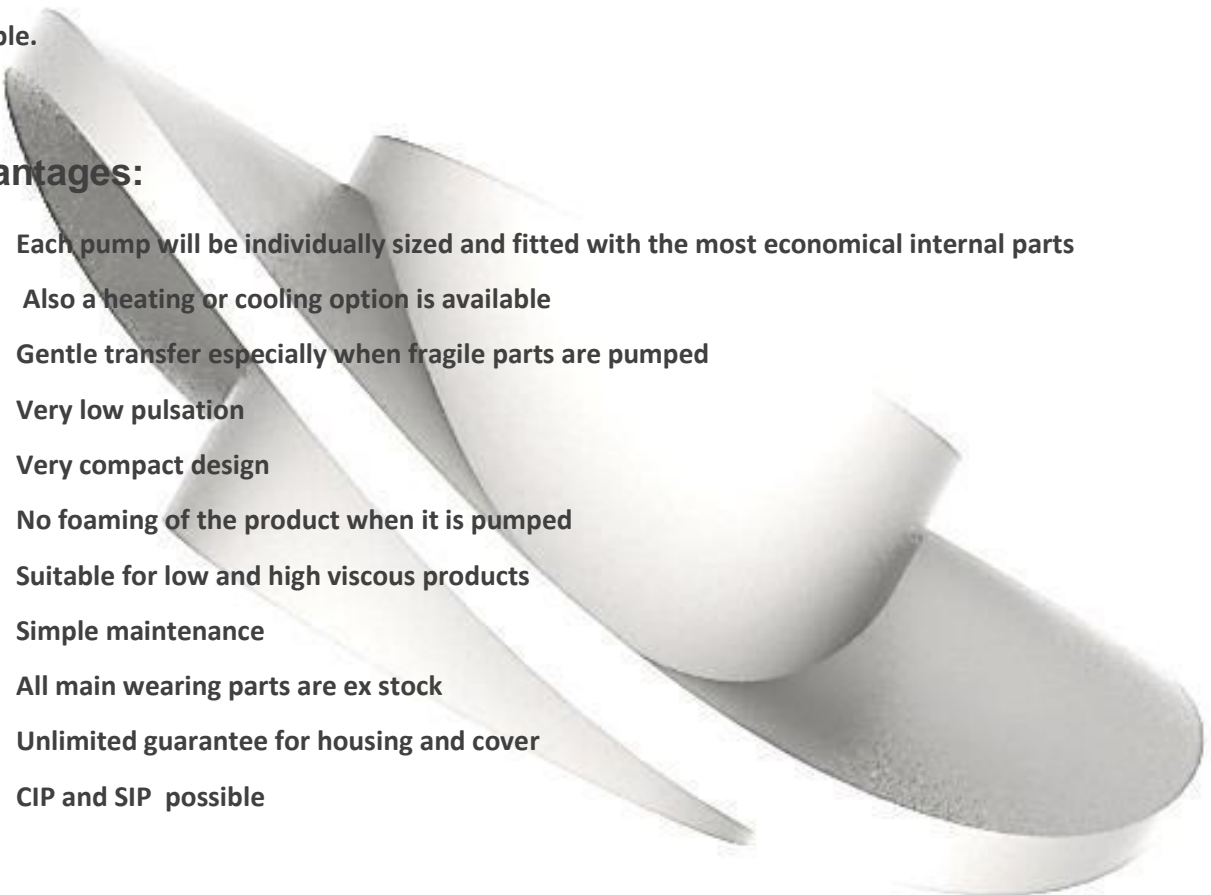
The rotor does not run against the housing or the cover. That means, that the housing and the cover will never wear out. SOMA offers an unlimited guarantee for the cover and the housing.

Various seal system can be offered such as – triple lip seal system or mechanical seal systems are available.



Advantages:

- Each pump will be individually sized and fitted with the most economical internal parts
- Also a heating or cooling option is available
- Gentle transfer especially when fragile parts are pumped
- Very low pulsation
- Very compact design
- No foaming of the product when it is pumped
- Suitable for low and high viscous products
- Simple maintenance
- All main wearing parts are ex stock
- Unlimited guarantee for housing and cover
- CIP and SIP possible



Material specification:

Rotor: 316 L Stainless Steel – also hardened

Housing and Cover in 316 L

Scraper: Various materials with FDA approval

Liners: Various materials with FDA approval

O-ring: EPDM - VITON

Shaft: Hardened Stainless Steel

Scraper Gate support: SOMATECH-2080-PK

Powerframe: Complete in Stainless Steel

Seal System: Single mechanical seal with flushing or triple lip seal system

Key figures:

- Capacity from 1000 l/h up to 100.000 l/h
- Pressures up to 15 Bar
- Speed up to 1000 rpm depending on the pump size
- Particles up to 60 mm in size
- Temperature up to 95 C
- Viscosities up to 1.000.000 CPS
- Suction up to max. 0,9 Bar
- Fixed or variable speed options
- Stationary or mobile base plates



Dairy



Cosmetics/Pharma



Beverage



Chemical



Food



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