

SCN PUMPS Application areas



Food Processing

SCN pumps are well-established for the transfer of products throughout the food industry – from homogeneous media, to large solids and lumps in suspension. Typical applications include soups, sauces, ready meals, condiments and sausage meat. Filling machine feed is a particular speciality for SCN pumps.



Beverage and Brewery

Superb suction performance and gentle operation are significant benefits of SCN pumps. Thick concentrates at sub-zero temperatures can be transferred with ease. Highly sensitive fresh juices are moved without damage to delicate cells and particles.



Milk Products

SCN pumps are perfect for the pumping and safe movement of delicate cream, yogurt, cheese curds, ricotta and cream cheeses. They are equally good for the addition of fruit purees. Butter and fats at various temperatures can be pumped with ease.



Cosmetics & Pharmaceuticals

The cosmetics industry chooses SCN pumps for a wide range of fluids from shampoo and conditioners, to pastes, lotions, crèmes and aqueous emulsions. The excellent suction characteristics and gentle handling makes an SCN ideal for many duties.



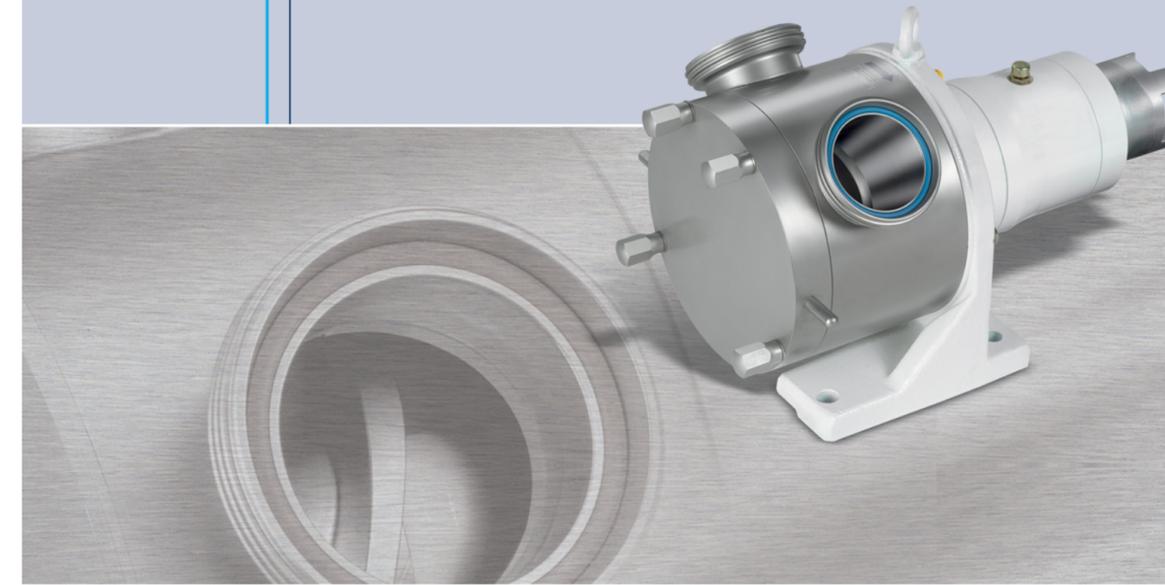
Fine Chemicals

Highly shear sensitive cleaning solutions, detergent concentrates, performance enhancers, washing-up liquids and suspensions are the perfect match for SCN pumps, as are highly viscous and challenging ingredients like silicones.



Confectionary & Bakery Industry

The confectionary industry employs SCN pumps for chocolate toppings, sugar solutions, syrups, caramel, praline fillings, fats and many similar products. Heated pump housings are available for temperature critical media.



SCN
pumps



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SCN pumps

A Gentle Revelation

Engineers and processing experts have described the SCN pump as a 'revelation in pump design'. This revolutionary positive displacement pumping principle creates a powerful and extremely capable range of pumps, able to deliver up to 90,000 litres per hour across a wide arrange of viscosities and applications.

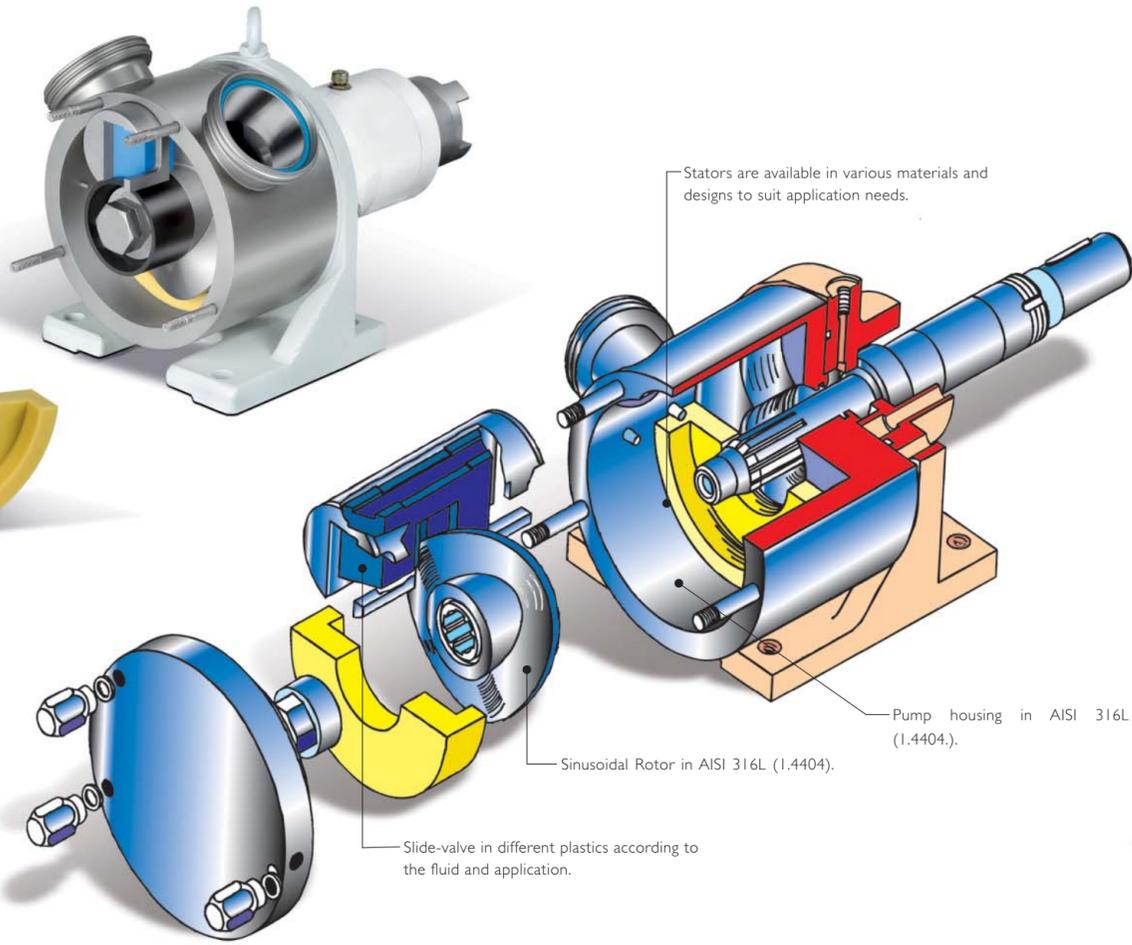


Sinusoidal Simplicity:
The simplicity of a stainless steel sinusoidal wave-form rotor coupled with a 'slide-valve' and two 'stators', produces a highly effective pump with very gentle fluid handling and low-pulsation.

Operating principle

Sinusoidal rotors have four rotating 'chambers' in which the fluid is moved and then displaced.

The 'slide-valve' separates the low-pressure inlet from the high-pressure outlet, thus creating the conditions necessary for a superb pump.



Continuous SCN performance:
SCN pumps are design for continuous and reliable operation within an efficient modern clean processing environment.



Advantages SCN pumps

High output capacity
Flow rates from a few litres up to 90 m3/h are achievable even with viscous fluids.

Enormous flexibility
The modular design of SCN pumps allows exact matching of the pump specification to the product and the process requirements, for optimised life and performance. Materials are selected according to pumped products and temperatures. Numerous drives and base plate options are available, together with different pump casings and ports. Custom built solutions are considered on request.

Gentle Principle
Processed products are handled with sensitivity to ensure that their valuable structure and characteristics are protected from damage while being pumped.

Superb Suction Performance
The low-pulse principle and open-port design combine to give extremely effective suction performance; especially good for low NPSH duties and viscous products.

Low Pulse, Low Vibration
The low pulsation design of SCN pumps minimises vibrations in the pipework, ensuring less wear, consistent rapid flow and a quieter process environment.

Compact Design
SCN pumps are small in size, while providing high performance.

No Aeration or Foaming
The gentle action avoids foaming and aeration, for better product life and improved level control.

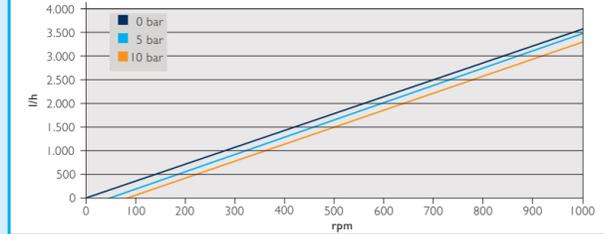
Multi-product Capability
SCN pumps are ideal for multi-product duties. A wide range of high to low viscosity fluids with varying rheologies can be handled with the same pump.

Low downtime
Easy in-line maintenance reduces downtime and enhances safety. Effective in-place CIP or simple manual cleaning can be carried out quickly.

Easy Quick Maintenance
Planned inspection and maintenance can be very rapid. Typically only 10 minutes is required to easily check or replace the wearing parts. Special skills are not required. Only a brief training is needed to carryout all common tasks.

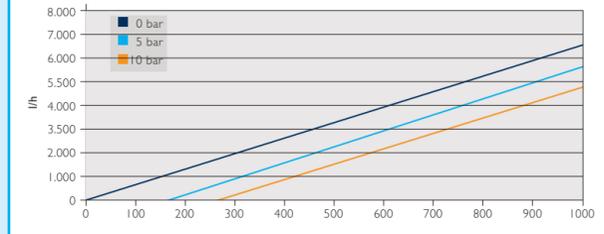
SCN pumps Performance tables

SCN 10 (1" - DN25) Output curve at 1,000 cP



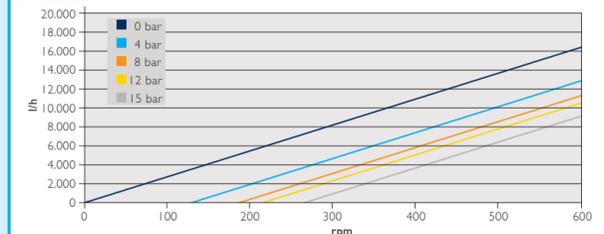
Technical data:
Dimensions W x H x D:
approx. 290 x 175 x 180 mm
Delivery volume:
0.06 litres per revolution
3,600 litres per hour max.
Delivery pressure:
up to 10.0 bar
Temperature range:
up to +130 °C

SCN 20 (2" - DN50) Output curve at 1,000 cP



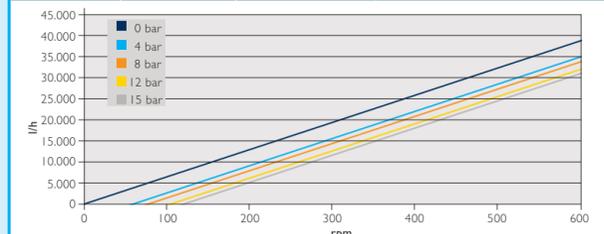
Technical data:
Dimensions W x H x D:
approx. 350 x 190 x 230 mm
Delivery volume:
0.11 litres per revolution
6,600 litres per hour max.
Delivery pressure:
up to 10.0 bar
Temperature range:
up to +130 °C

SCN 25 (2 1/2" - DN65) Output curve at 1,000 cP



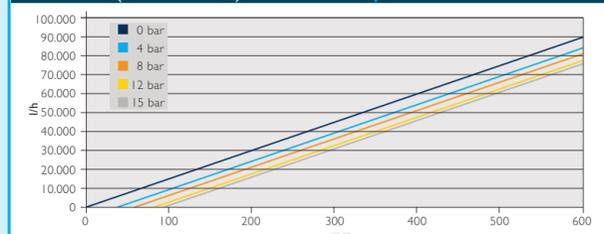
Technical data:
Dimensions W x H x D:
approx. 500 x 270 x 320 mm
Delivery volume:
0.45 litres per revolution
16,200 litres per hour max.
Delivery pressure:
up to 15.0 bar
Temperature range:
up to +130 °C

SCN 40 (4" - DN100) Output curve at 1,000 cP



Technical data:
Dimensions W x H x D:
approx. 620 x 370 x 380 mm
Delivery volume:
1.05 litres per revolution
37,800 litres per hour max.
Delivery pressure:
up to 15.0 bar
Temperature range:
up to +130 °C

SCN 60 (6" - DN150) Output curve at 1,000 cP



Technical data:
Dimensions W x H x D:
approx. 770 x 530 x 590 mm
Delivery volume:
2.50 litres per revolution
90,000 litres per hour max.
Delivery pressure:
up to 15.0 bar
Temperature range:
up to +130 °C

The SCN pump is a technological (r)evolution which practically reinvented the displacement pump!