



- Maximum efficiency
- Improved reliability
- Minimized total cost of ownership (TCO)

New SNS Process Pumps Range

Modern industry demands more energy efficient solutions so we've broken the conventions in the name of efficiency. Sulzer's new SNS pump range has been designed to exceed the highest energy efficiency regulations across all industries and also the design requirements of ISO 5199 international standard. The innovative design makes the pump more reliable while significantly reducing total cost of ownership.

Maximum efficiency

- The highest efficiency on the process pump market
- Exceeding EU's (European Union) requirements for energy-related products (ErP)
- Highest efficiency across the whole pump range, exceeding the benchmark efficiency index MEI 0.7 (Minimum Efficiency Index)

Improved reliability

- New, state-of-the art hydraulics ensure optimum capacity with low net positive suction head required (NPSHr):
- Optimized shaft sealing chamber and innovative balancing holes to maximize the lifetime of the seal
 - Trouble-free Sulzer mechanical seals
 - Heavy-duty bearing units with long bearing life and leakage free construction

Minimized total cost of ownership (TCO)

The innovative design means higher efficiency that translates to lower energy consumption. Coupled with this, high standardization, easy installation and unique construction also equate to lower maintenance and operating costs.

Main applications

The SNS pump has been designed to meet the process requirements of versatile general and industrial applications in following conditions (see the table).

Liquid	Temperature up to 120° C / 250°F	Pressure up to 16 bar / 230 psi	Corrosion pH from 0 to 14
Clean and slightly contaminated liquids	✓	✓	✓
Viscous liquids	✓	✓	✓
Fibrous slurries	✓	✓	✓

Operating data

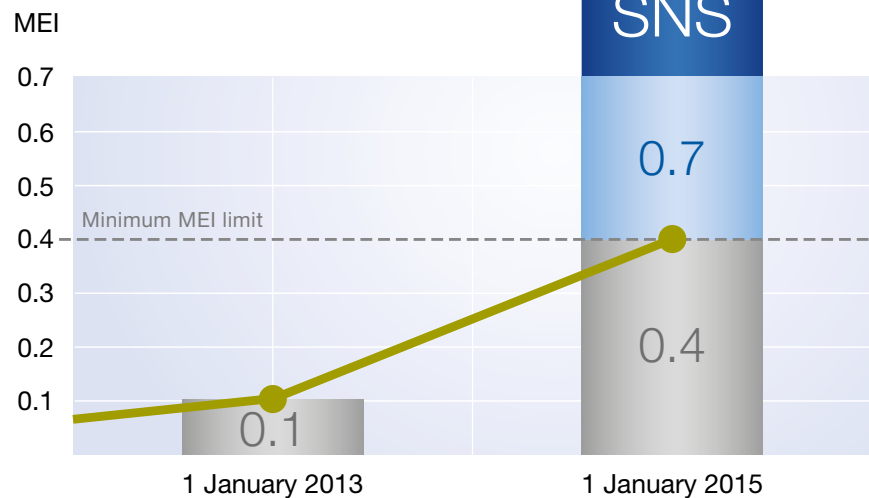
50 Hz		60 Hz
up to 1,400 m³/h	Capacities	6,000 USgpm
up to 160 m	Heads	up to 525 ft
up to 16 bar	Pressures	up to 230 psi
up to 120°C	Temperatures	up to 250°F
up to 3,600 rpm	Maximum speed of rotation	up to 3,600 rpm

Materials

Standard material options	Material			Sulzer code
Duplex SS	ASTM	A890	Grade 3A	(41)
Austenitic	ASTM	A743	Grade CF-8M	(42)

Minimum efficiency index

European Union (EU) has created ErP (Energy-related Products) regulations specifying minimum efficiency values for water pumps with the target of reducing energy consumption. The regulations contain a minimum efficiency index (MEI), which was set up to be ≥ 0.4 since beginning of 2015. This means that 40% of the pumps currently on the market do not comply. Only the pumps and motors which satisfy the energy efficiency requirements of the EU's ErP Directive may be made available for sale.



The SNS process pump range not only meets the criteria, but breaks all records by exceeding even the benchmark efficiency index MEI 0.7!

The Sulzer SNS pump range is truly ahead of the game.