

## SNS

### process pumps range

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Modern industry demands more energy efficient solutions so we've broken the conventions in the name of efficiency. Sulzer's 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

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- 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

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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

#### Minimized total cost of ownership (TCO)

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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

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SNS pumps are used in a wide variety of general and industrial applications to pump

- clean and slightly contaminated liquids
- viscous liquids
- fibrous slurries

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#### Main benefits

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

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

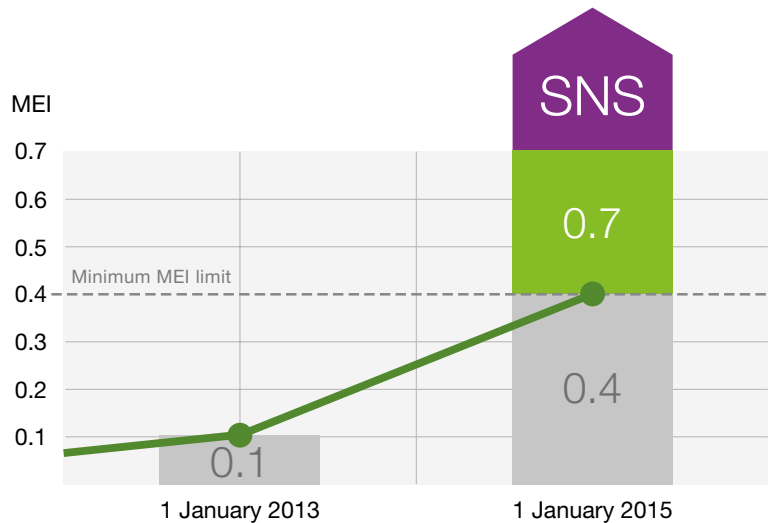
## Operating data

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

## 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  $\geq 0.4$  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!



**How can we help you?**  
**Contact us today to find your best solution.**

[sulzer.com](http://sulzer.com)

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