

CPE process pumps – efficiency by design

Modern industry demands more energy efficient solutions so we've broken the conventions in the name of efficiency. Sulzer's CPE ANSI pumps are specifically designed to exceed the strictest energy regulations for all industries as well as the requirements of ASME B73.1. With revolutionary hydraulics and high efficiency, they offer the lowest life cycle costs.

Maximum efficiency

- The highest efficiency on the ANSI process pump market
- Exceeding U.S. Department of Energy (DOE) requirements for Pump Energy Index (PEI)
- With optimal impeller selection, the CPE process pumps fulfill the criteria and even achieve record-breaking PEI 0.83.

Improved reliability

New, state-of-the-art hydraulics ensure optimum capacity with low net positive suction head required (NPSHr):

- Optimized seal life thanks to improved sealing chambers and innovative balancing holes
- Trouble-free Sulzer mechanical seals
- Heavy-duty rigid bearing units ensure 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 robust construction also equate to lower maintenance and operating costs.



Main applications

Sulzer CPE pumps can meet the process requirements in a variety of industrial applications, and are suitable for use with:

- clean and slightly contaminated liquids
- viscous liquids of up to 3'000 cSt
- fibrous slurries of up to 6% consistency

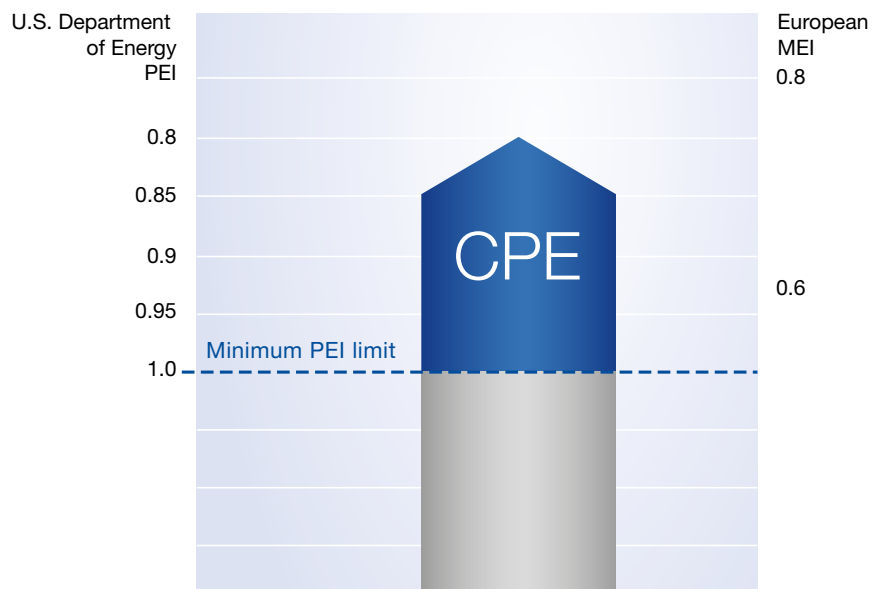
The CPE pump has NSF61 and NSF372 drinking water certification.

Operating data

	60 Hz	50 Hz
Capacities	up to 7'000 USgpm	up to 1'650 m ³ /h
Heads	up to 900 ft.	up to 275 m
Pressures	up to 400 psi	up to 27.5 bar
Temperatures	up to 500°F	up to 260°C
Maximum speed of rotation	up to 3'600 rpm	up to 3'000 rpm

Highest efficiency across the whole pump range

Energy efficiency is a hot topic in industry. So important that many authorities worldwide are preparing regulations for that. The European Union (EU) was the first and created the Energy-Related Products Regulations and now the U.S. Department of Energy (DOE) has done the same. They specify the Pump Energy Index (PEI) for clean water pumps, with the target of reducing energy consumption. From 2020, only pumps in range 1-200 HP, which satisfy the PEI requirements, may be sold.



PEI, the Pump Energy Index for clean water pumps, was set up to be ≤ 1.0 from the beginning of 2020. The standard will remove the worst performing 25% of the pumps from the market. The Sulzer CPE pump range is truly ahead of the game.

