

# 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
- Exceeds the requirements of all environmental (ECO) directives and the energy efficiency targets for pumps globally

## 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

CPE pumps are available in NSF61 and NSF372 certified materials.

## Operating data

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

## Wide variety of materials

Energy efficiency is a hot topic Sulzer ANSI pumps are used in a wide range of industries and applications. Selecting the best material according to specific process requirements is important for maximizing pump life.

Stainless steel design			Nominal chemical composition %					
			C max	Cr	Ni	Mo	Cu	N
<b>Duplex</b>	ASTM A890 3A (CD6MN)	41	0.06	24.0-27.0	4.0-6.0	1.75-2.5	-	0.15-0.25
	ASTM A890 5A (CE3MN)	4T	0.03	24.0-26.0	6.0-8.0	4.0-5.0	-	0.10-0.30
<b>Austenitic</b>	ASTM A743 (CN-7M)	43	0.07	19.0-22.0	27.5-30.5	2.0-3.0	3.0-4.0	-
<b>Martensitic</b>	ASTM A747 (CB7Cu-2 H900)	4E	0.07	14.0-15.5	4.5-5.5	-	2.5-3.2	-

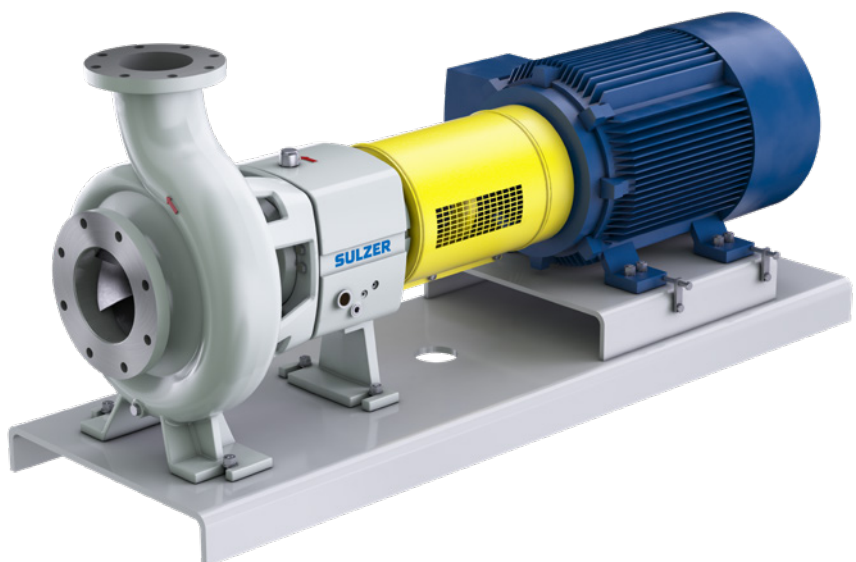
  

Carbon, low-alloy cast steel, cast iron design			Nominal chemical composition %					
			C	Cr	Ni	Mo	Cu	Si
<b>Ductile iron</b>	ASTM A395 60-40-18	5H	-	-	-	-	-	-

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