

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

System optimization

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 patented 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 up to 1'000 cSt
(or even more depending on the operating conditions)
- Fibrous slurries of up 6% consistency
(depending on the pump size and operating conditions)

CPE pumps are available in NSF61 and NSF372 certified materials.



Operating data

Capacities	Heads	Pressures	Temperatures	Maximum speed of rotation
up to 7'000 USgpm	up to 900 ft.	up to 290 psi	up to 500°F	up to 3'600 rpm
up to 1'650 m ³ /h	up to 275 m	up to 20 bar	up to 260°C	

Wide variety of materials

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
Duplex	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
Austenitic	ASTM A743 (CN-7M)	43	0.07	19.0-22.0	27.5-30.5	2.0-3.0	3.0-4.0	-
Martensitic	ASTM A747 (CB7Cu-2 H900)	4E	0.07	14.0-15.5	4.5-5.5	-	2.5-3.2	-
Nickel alloy	ASTM A494 (CW-6M)	4J*	0.07	17.0-20.0	balance	17.0-20.0	-	-

* Available with CPT hydraulics

Carbon, low-alloy cast steel, cast iron design

Ductile iron	ASTM A395 60-40-18	5H
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How can we help you?
Contact us today to find your best solution.

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