

SULZER

Pumps and pumping systems

PC transfer perform pump



Main industries and applications

Sulzer's progressing cavity pump range offers reliable and efficient solutions for diverse industrial applications. Included in the series are the PC cake pump, the PC dosing pump, the PC transfer pump and the PC transfer perform pump.

The PC transfer perform pump is an extension of Sulzer's PC transfer pump and is used for pumping wastewater sludge, effluents and shear sensitive fluids in municipal and industrial process applications. The pump delivers a constant capacity with variable pressure for viscous, shear thinning fluids.

The PC transfer perform pump is used in the following applications:

- Municipal and industrial effluents
- Sludge transfer processes
- Shear sensitive processes
- Hydrated lime slurry
- Industrial chemicals and detergents
- Paper stocks
- Starch slurries
- Ground water with manganese
- Agricultural effluent and farm waste slurries



Materials

Pump body	Rotor/rotating parts	Stator materials
Cast iron Stainless steel AISI 316	Alloy steel with HCP Stainless steel AISI 316 Stainless steel AISI 316 + HP	Natural rubber EPDM High nitrile Nitrile NBR Fluoro-elastomer / Viton

Operating data

	50 Hz	60 Hz
Pump sizes (diameter)	up to 200 mm	up to 7.9 in.
Capacities	up to 225 m ³ /h	up to 991 USgpm
Differential pressures	up to 12 bar	up to 174 psi
Temperatures	-10 up to 100°C	14 up to 212°F

Features and benefits

Maintenance-friendly design

- Maintain in place, without disconnecting suction or discharge flanges
- Saves maintenance time and eliminates dismantling costs

Fast re-assembly

- Pre-assembled rotating elements available as spares

Easy system upgrades

- Can be retrofitted into existing Sulzer PC transfer pump installations
- Smooth and problem-free optimization of existing plant components

Custom solutions

- Available in cast iron or stainless steel, with a choice of rotor and stator materials

Easy installation

- Supplied on a baseplate, optionally without
- Baseplates make the installation easier

Low-speed drive for longer life

- Reduces wear for a longer working pump life
- Increases time between routine maintenance

Versatile pumping

- Suitable for pumping wastewater sludge, effluents and shear sensitive fluids in municipal and industrial process applications
- Process pump capability to deliver a constant capacity, flow rate, with variable pressure from laminar or turbulent systems

Flexible sealing options

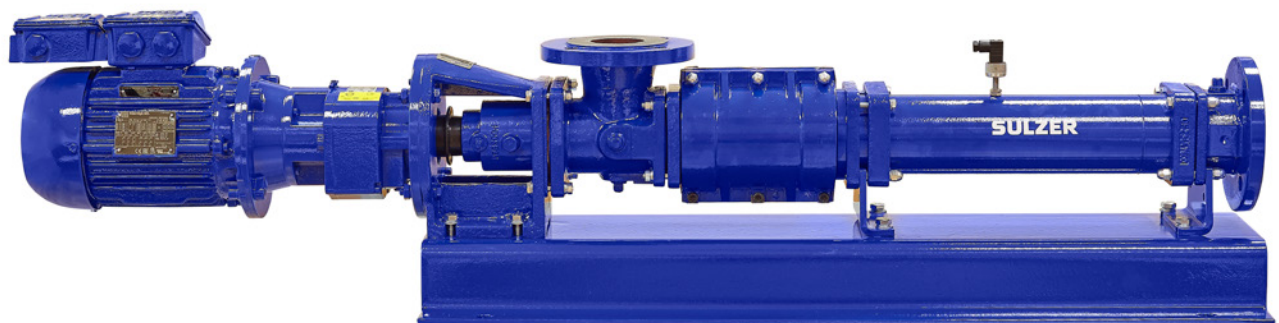
- Choice of shaft sealing options, with single or double mechanical seals and packed glands
- Most applications require a mechanical seal as standard, however, we provide options for customer preferences and cost savings

Smoother operations with positive torque split coupling rod

- Reduces ragging and maintenance
- Less rag binding at the inlet to the pump hydraulic end

Easy maintenance

- Stator support clamps reduce stator removal time
- No tie rods to remove and replace during maintenance periods



The Sulzer Flow division keeps your processes flowing. Wherever fluids are treated, pumped, or mixed, we deliver highly innovative and reliable solutions for the most demanding applications.

The Flow division specializes in pumping solutions specifically engineered for the processes of our customers. We provide pumps, agitators, compressors, grinders, screens and filters developed through intensive research and development in fluid dynamics and advanced materials. We are a market leader in pumping solutions for water, oil and gas, power, chemicals and most industrial segments.

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