

| PC transfer perform pump



Main industries and applications

The PC transfer perform pump is an extension of Sulzer's popular 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



Water and wastewater



Pulp, paper and board



General industry



Chemical process industry

Materials

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

Operating data

	50 Hz	60 Hz
Pump sizes (up to diameter)	340 mm	10 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

Designed to be maintained in place, without disconnecting suction or discharge flanges

- Saves maintenance time and eliminates costs to dismantle

Pre-assembled rotating elements can be supplied as spares

- Allowing an even faster re-assembly time

Can be retrofitted into existing Sulzer PC transfer pump installations

- Smooth and problem-free optimization of existing plant components

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

- Allowing customized solutions for specific applications

Supplied on a baseplate, optionally without

- Baseplates make the installation easier

Low running speed drive options

- Reduced wear for a longer working pump life
- Help to extend periods between routine maintenance

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

Choice of shaft sealing options, with single or double mechanical seals and packed glands

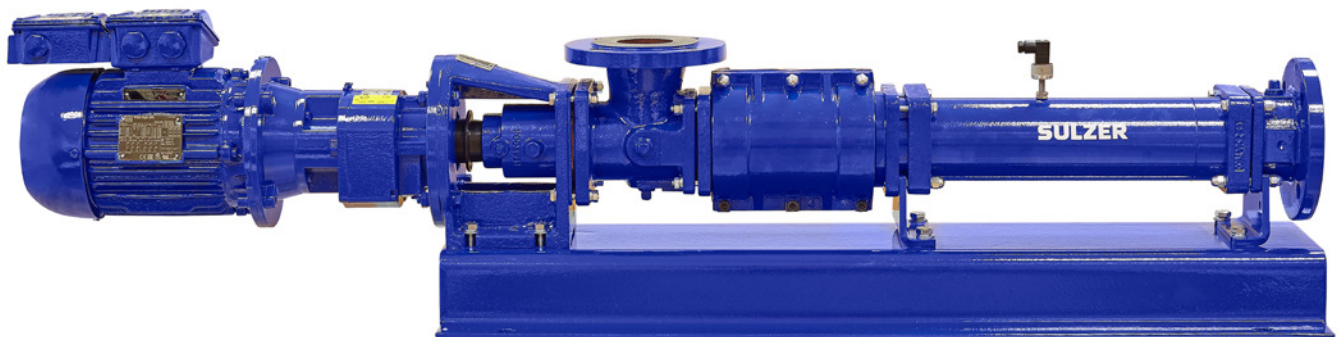
- Most applications require a mechanical seal as standard, however, Sulzer provides options for customer preferences and cost savings

Positive torque split coupling rod reduces ragging and maintenance

- Less rag binding at the inlet to the pump hydraulic end

Stator support clamps reduce stator removal time

- No tie rods to remove and replace during maintenance periods



Maintain in place

The PC transfer perform pump is the latest pump design with captive stator clamps, eliminating the need for tie bars. To minimize the time and cost involved when maintaining a progressing cavity pump, the PC transfer perform pump can easily be maintained in place without disconnecting or removing any pipework. With the PC transfer perform pump, the full drive train including rotor, stator, shaft and seal can be removed in less than 4 minutes.



1. With stator and rotor removed, access the drive



2. Pull back thrower guard and push pin out



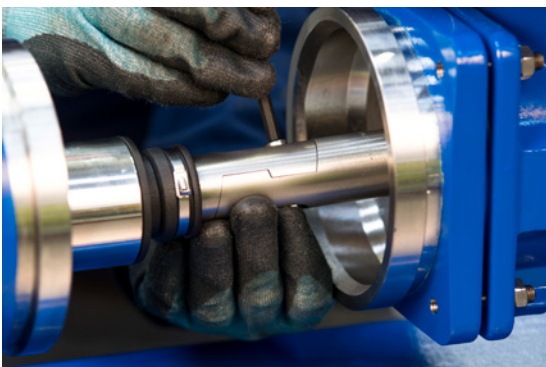
3. Remove drive shaft



4. All wear components easily removed

Positive torque coupling rod

The positive torque split coupling is a smooth profile coupling, designed for maintain in place needs, removal and reassembly of the coupling rod clamp components



5. The split coupling is held together with screws



6. Release the hydraulic rotor from drive shaft





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