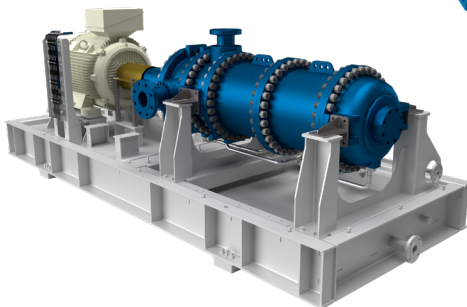
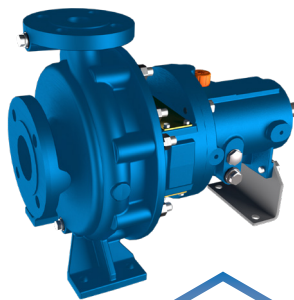
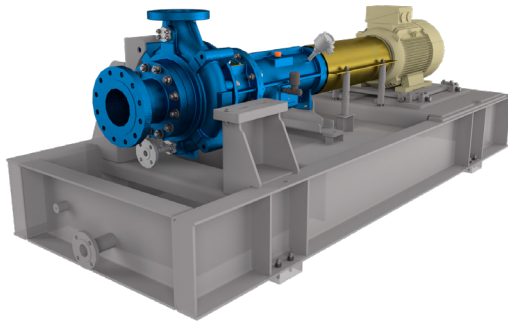


Sector information Offshore Chemical & Petrochemical

- ◉ Pump series
- ◉ Product overview
- ◉ Executions
- ◉ Materials
- ◉ Types of seals



Sector information
Offshore, Chemical & Petrochemical

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Strobl Pumpen – Your Partner for High-Quality Centrifugal Pumps „Made in Germany“

Since 2006, **Strobl Pumpen** has been representing the highest quality, innovation, and precision in fluid handling. Whether for municipal applications, mechanical engineering, shipbuilding, or the demanding chemical and oil industries – we offer **customized pump solutions** perfectly fitting to your requirements

Our goal is simple: **to find the best solution for your pumping challenge**. That's why we not only supply individual pumps, but also complete systems and packages – all from one single source.

Quality you can rely on:

Our products are designed and manufactured exclusively in Germany and proudly bear the "Made in Germany" seal of quality. From the initial design to final testing, precision is our top priority. Our ISO 9001 certification guarantees consistently high standards – day after day, year after year.



Innovation meets responsibility:

We think ahead – also with the future in mind. Sustainability is not just a buzzword for us, but a lived reality. Energy-efficient machinery, rainwater harvesting, an electric vehicle fleet, and energy-optimized buildings are all part of our corporate philosophy. Since 2019, we have been a proud member of a Bavarian environmental alliance called "**Umweltpakt Bayern**" and voluntarily commit to additional environmental measures.



A family business with heart and mind:

As family owned and managed company based in **Hilpoltstein, Bavaria, near Nuremberg**, we combine traditional values with modern engineering. Our highly motivated team is the heart of our success – dedicated, solution-oriented, and always focused on what matters most:
Your satisfaction.



With continuous development, technical excellence, and a spirit of partnership, we are shaping the future of fluid handling.

Strobl Pumpen – We move fluids. Precisely. Reliably. Sustainably.



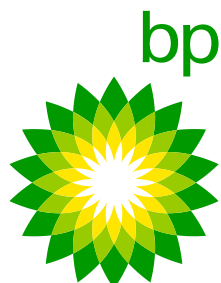
General description

Our pumps are designed to fulfill the high requirements of the offshore, chemical, and petrochemical industries. Depending on the application, pumps can be supplied in accordance with various international standards, e.g. API 610 or ISO 5199. As a result, they are characterized by high operational safety, reliability, and a long service life, even under demanding operating conditions.

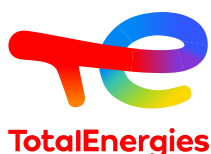
The supply range extends from individual pumps with free shaft ends to complete systems including a base frame, motor, and all necessary accessories.

On the following pages, you will find the main technical specifications of our pump series for offshore, chemical, and petrochemical applications.

End users



PETRONAS



wood.



nel

ExxonMobil



NOV



Informations on seals and materials

The sealing variants and material combinations listed in the following tables represent the standard configurations for all pumps. In addition, customized solutions, such as packing or alternative material combinations, can be provided upon request at any time.

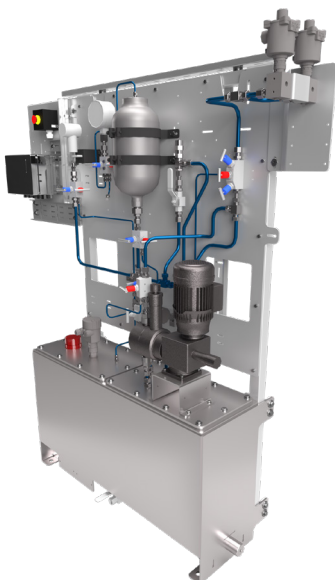
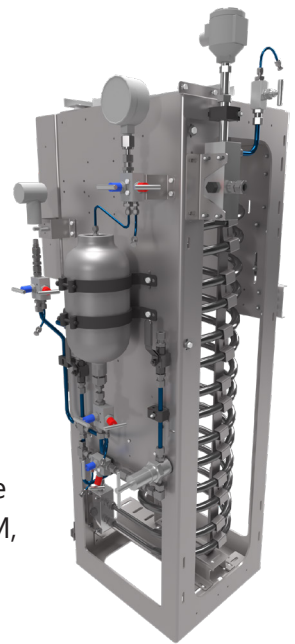
Types of seals

Directly integrated balanced or unbalanced seals (Z1XX or Z2XX)

- Standard version: Direction-of-rotation-independent rubber bellow seal with carbon/SiC material combination and elastomers in NBR, FKM, EPDM, HNBR, etc.
- Special versions with covered springs, metal bellow or highly chemical-resistant elastomers such as FFKM

Cartridge seals installed on the casing cover

- Connections to cartridge seals always NPT threads $\frac{1}{4}$ ", $\frac{3}{8}$ " $\frac{1}{2}$ " according to seal size/shaft diameter
- Cartridge seals standardized to match pump material, higher-quality materials for parts in contact with media possible at any time
- Single-acting seals as above, but with flush connections and throttle chambers (quench chambers) for leakage drainage or liquid supply (e.g. API Plan 02, 11/61) (Z1XX or Z2XX)
- Double-acting seals in back-to-back arrangement and integrated pumping thread (e.g. API Plan 53b) (Z3XX)
 - Material pairings as desired and depending on the medium
 - Carbon/SiC or SiC/SiC on the product side and carbon/SiC on the atmospheric side
 - O-rings in contact with the medium available in various materials (NBR, FKM, EPDM, FFKM), etc.
- Any cartridge seal (specific manufacturers, design variants, etc.) is possible on request
- Mounted sealing systems on base frame are possible



Sealless variant with magnetic coupling (Z8XX)

- Medium-lubricated slide bearing in SiC/SiC + 1.4571
- Can in Hastelloy (see material table)
- Magnets made of Sm2Co17
- Any additional static sealing elements required made of any elastomers
- Safety chamber behind the magnetic coupling is available in various designs (leakage drainage only, throttle bushing, gas seal)

Other versions available on request (e.g. packing)



Materials

Material	DIN EN 10027-1	Code	ASTM-UNS-Code
Cast Iron	GG 25	0.6025	A48 Grade 35
Nodular Cast Iron	GGG 40	0.7040	A536-60-40-18
Bronze	G-CuSn10	2.1050.01	B505-C90700
Aluminium Bronze	G-CuAl10Ni	2.0975.01	B505-C90500
	CuAl11Ni6Fe6	2.0978	B150-C63020
Hard Iron	G-X300CrMo15-3	0.9635	A532-Class II Typ B
Cast Steel / Steel	GS-C25	1.0619	A216-WCB-J03002
	S235Jr (St 37)	1.0037	A29-1013-G10150
	C 22	1.0402	A29-1020-G10200
	G20Mn5	1.6220	A352-LCC-J03003
Chromium Steel	G-X4CrNi13-4	1.4317	A487-CA6NM-J91540
	X20Cr13	1.4021	A276-S42000
Stainless Steel	G-X5CrNiMo19-11-2	1.4408	A351-CF8M-J92900
	X6CrNiMoTi17-12-2	1.4571	A276-316Ti-S31635
	G-X1CrNiSi18-15-4	1.4361	Alloy 1815 - S30600
	X1CrNiSi18-15-4	1.4361	Alloy 1815 - S30600
Duplex Steel	G-X2CrNiMoN22-5-3	1.4470	A995-4A-J92905
	X2CrNiMoN22-5-3	1.4462	A276-S31803
Super Duplex Steel	X2CrNiMoN26-7-4	1.4469	A995-5A-J93404
	X2CrNiMoCuWN25-7-4	1.4501	A276-S32760
Duplex Hard Iron	G-X40CrNiMo27-5	1.4464	
High Alloy Stainless Steel	G-X2CrNiMoCuN20-18-6	1.4557	A744-6Mo-J93254
	X1CrNiMoCuN20-18-7	1.4547	A276-6Mo-S31254
	G-X2NiCrMoCuN25-20-6	1.4588	A744-CN3MN - J94651
	X1NiCrMoCuN25-20-7	1.4529	Alloy 926 - N08926
	G-X2NiCrMoCu25-20-5	1.4584	(Alloy 904L - N08904)
	X1NiCrMoCu25-20-5	1.4539	Alloy 904L - N08904
	X1NiCrMoCu31-27-4	1.4563	Alloy28 - N08028
	G-X1CrNiMoCuN33-32-1	1.4591s	Alloy 33
	X1CrNiMoCuN33-32-1	1.4591	Alloy 33 - R20033
Nickel	G-Ni95	2.4171	Ni 95
	Ni200 / Ni201	2.4066/2.4068	Ni200 / Ni201 - N02200/02201
Alloy 825	G-NiCr21Mo	2.4858	Alloy 825 -
	NiCr21Mo	2.4858	Alloy 825 -
Hastelloy B	G-NiMo30	2.4810	Hastelloy B - N10001
	NiMo28 / NiMo29Cr	2.4617/2.4600	Hastelloy B2/B3 - N10675
Hastelloy C	G-NiMo16Cr16Ti	2.4610	Hastelloy C4 - N06455
	NiCr16Mo15W	2.4819	Hastelloy C 276 - N10276
Inconel 718	NiCr19NbMo	2.4668	Alloy 718 - N07718
Titanium Grade 2	Ti 2	3.7035	Grade 2 - R50400
Titanium Grade 5	Ti 6Al-4V	3.7164/65	Grade 5 - R56400
Titanium 6-2-4-6	Ti 6-2-4-6		
Titanium Grade 7	Ti-0,15Pd	3.7235	Grade 7 - R52400
Titanium Grade 16	Ti-0,05Pd		Grade 16 - R52402
Zirconium Z702	Zirconium		ZR 702 - R60702

STROBL PUMPEN

Chemical standard pumps - Series CNP

Chemical standard pumps in the **CNP** series are single-stage, normal-priming centrifugal pumps that have been developed for use in the chemical and petrochemical industries. The pumps are characterized by standardized dimensions and hydraulic performance, based on ISO 2858. This is supplemented by smaller and larger sizes. Our series covers the full range, from simple basic variants to ISO 5199 variants and API 610-OH1 or API 685 versions. The possible scope of supply ranges from individual pumps with free shaft ends to fully developed, highly integrated complete systems.

Fields of application

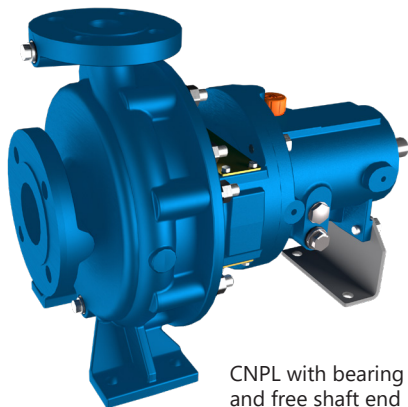
Chemical standard pumps are primarily used to pump various liquids in the chemical industry. Due to the variety of available materials, they can also handle aggressive or abrasive liquids. These pumps can handle acids, alkalis, and slightly viscous substances. Our clients currently use chemical standard pumps in the following areas:



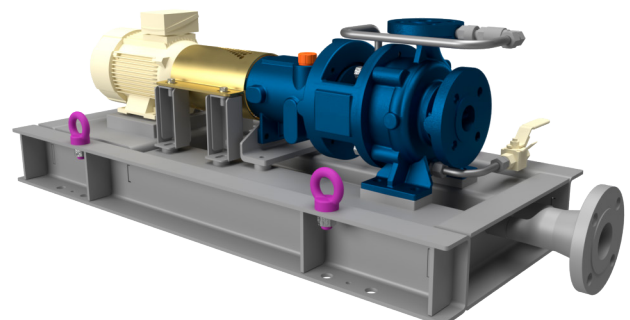
- Conveying of process liquids
- Hydrogen production
- Chemical recycling of plastic waste



- Industry and plant engineering
- Circulation of liquids
- Refinery and offshore applications



CNPL with bearing system and free shaft end



CNPL with mechanical seal system plan 11, bearing system, coupling and motor on baseplate with drip tray

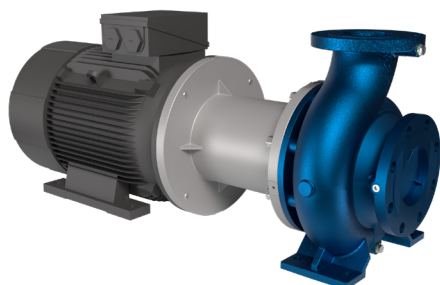


Operating data

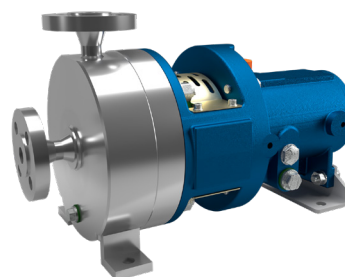
Flow:	Q up to 3000 m ³ /h
Head:	H up to 160 m
Motor power:	P from 0,37 kW to 500 kW
Casing design pressure:	Series CNP/CNPL/CNPN: 16 bar at 20°C 25 bar at 20°C, material with higher strenght
	Series CNPHL/CNPHN: 100 bar at 20°C
	Series CNPH2L/CNPH2N: 250 bar at 20°C

Medium temperatures: from -20°C to 350°C

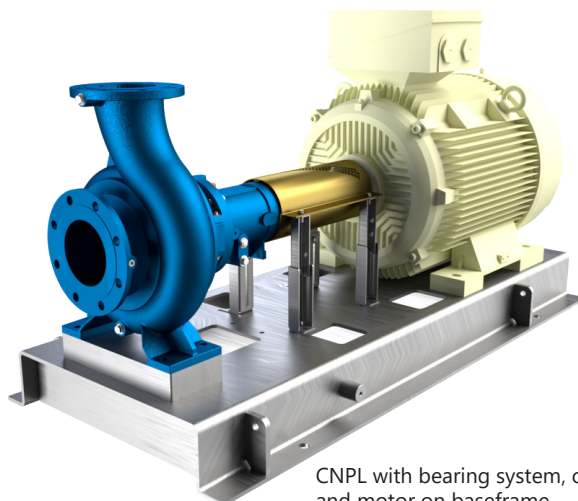
Other operating data and variants with heating and cooling jackets are available on request.



CNPL with magnetic coupling and motor



CNPHL high pressure version with bearing system and free shaft end



CNPL with bearing system, coupling and motor on baseframe

STROBL PUMPEN

Chemical slurry pump - Series CSP

The **CSP series of chemical slurry pumps** are special, single-stage, normal-priming centrifugal pumps designed for use in the chemical, petrochemical industries as well as the general industrial sector. They are characterized by standardized dimensions in accordance with ISO 2858. Our series covers the full spectrum, ranging from simple basic models to variants compliant with ISO 5199 and those based on API 610-OH1. The scope of supply ranges from individual pumps with free shaft ends to fully developed, highly integrated complete systems.

Fields of application

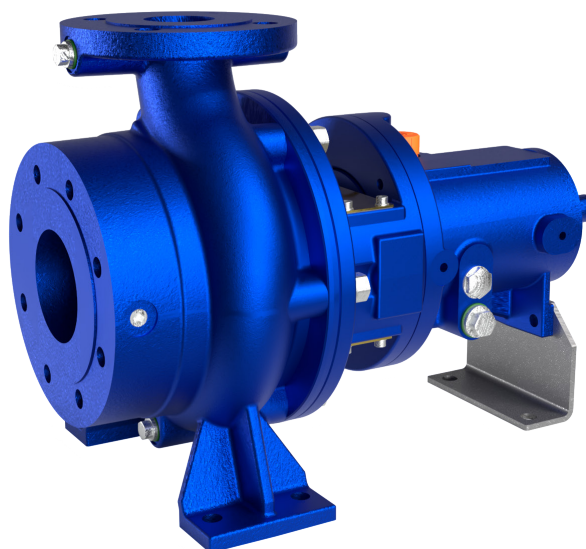
The primary application of chemical slurry pumps is the handling of a wide variety of contaminated or solids-laden liquids generated in process engineering plants. Due to the available material options, our pumps are ideally suited for pumping aggressive or abrasive liquids. Contaminated acids, alkalis, or slightly viscous media can also be handled by these pumps.



- Conveying of process liquids
- Production of biofuels
- Chemical recycling of plastic waste



- Industry and plant engineering
- Circulation of liquids
- Refinery and offshore applications





Advantages

The use of **vortex (free-flow) or channel impellers**, as used in wastewater technology, makes this pump ideal for handling demanding fluids. **Crystalline, solids-laden, or particle-laden liquids** can be pumped reliably, without clogging and with minimal wear. Depending on the pump and impeller design, the free passages can be up to 90% of the discharge outlet's nominal diameter—a decisive advantage when handling media containing solids.

The **selection of seals and materials** is identical to our established **CNP series of chemical standard pumps**. Furthermore, the **robust bearings of the CSP series are identical to those of the CNP series**, ensuring high operational reliability. The use of standard parts allows for easy replacement of spare parts, significantly reducing storage and maintenance costs.

Existing systems with a standard chemical pump can be easily **upgraded to the CSP series chemical wastewater pump** without complex modifications, thanks to **ISO 2858-compliant connection dimensions**. This upgrade allows safe operation with **abrasive and solids-laden media** and provides a **significantly longer service life** compared to conventional standard chemical pumps.

Operating data

Flow:	Q up to 1600 m ³ /h
Head:	H up to 150 m
Motor power:	P from 0,37 kW to 500 kW
Casing design pressure:	Series CSP/CSPL/CSPN: 16 bar at 20°C 25 bar at 20°C, material with higher strength
	Series CSPHL/CSPHN: 100 bar at 20°C

Medium temperatures: from -20°C to 350°C

Other operating data and variants with heating and cooling jackets are available on request.

STROBL PUMPEN

Process pumps - Series CPP

Process pumps series CPP are single stage centrifugal pumps in horizontal construction. This series can be used for various applications with stringent requirements. The pumps are designed for system pressures of up to 40 bar and can be executed to API 610 or API 685.

Fields of application

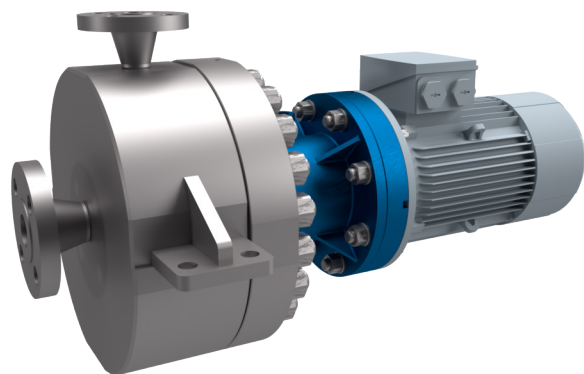
Main field of application of the single stage process pumps series CPP is pumping of liquids in a process. Due to the possible use of these pumps in systems with high pressure, as well as the variability in materials the pumps can be used in several fields of application. Our customers currently use these pumps in the following applications:



- Circulation of liquids
- Plant construction and industry
- Process design



- Reverse osmosis
- Petrochemistry and offshore



CPPHN with magnetic drive and motor

Sector information
Offshore, Chemical & Petrochemical

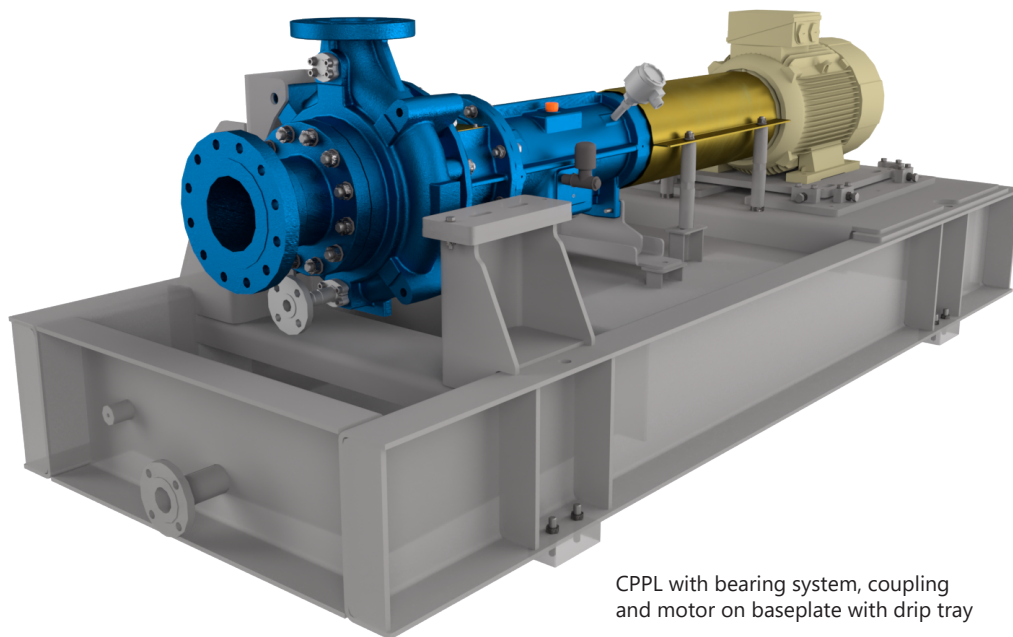


Operating Data

Flow:	Q up to 2500 m ³ /h
Head:	H up to 380 m
Motor power:	P from 0,75 kW to 750 kW
Casing design pressure:	Series CPPL/CPPN: 40 bar at 20°C Series CPPHL/CPPHN: 150 bar at 20°C

Medium temperatures: from -20°C to 350°C

Other operating data and variants with heating and cooling jackets are available on request.



CPPL with bearing system, coupling
and motor on baseplate with drip tray

STROBL PUMPEN

Inline pumps - Series INP

Centrifugal pumps series INP are single stage, normal priming pumps with side nozzles at the same level for direct mounting into pipework, as an option, these pumps can be mounted on a base plate or frame structure with Back-pull-out system. Some sizes are additionally available with suction connection rotated 90° left or right from discharge flange. Series INP is as well available according to API 610 or API 685.

Fields of application

Main field of application of our inline pumps is conveying clean liquids. The inline pumps are available with inducer, to allow low system NPSH values.

Due to the different materials available, conveying of various aggressive liquids in the chemical and process industry is possible. Our customers currently use our inline pumps for the following applications:



- Circulation of liquids in open and closed circuits
- Conveying of liquids in machines
- Water treatment



- Offshore systems
- Reverse osmoses systems



INPN with mechanical seal on pump foot

Sector information
Offshore, Chemical & Petrochemical

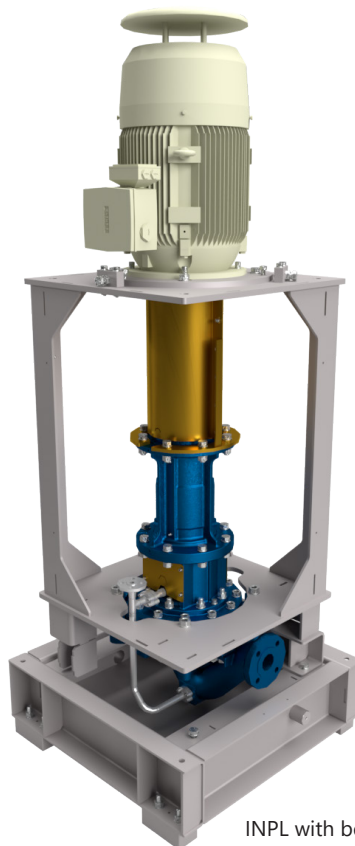


Operating data

Flow:	Q up to 550 m ³ /h
Head:	H up to 350 m
Motor power:	P from 1,1 kW to 600 kW
Casing design pressure:	Series INP/INPL/INPN: 40 bar at 20°C

Medium temperatures: from -20°C to 350°C

Other operating data and variants with heating and cooling jackets are available on request.



INPL with bearing system, coupling
and motor on baseframe

INP

STROBL PUMPEN

Sump pumps - Series ETP

Sump pumps series ETP are single or multistage normal priming centrifugal pumps for vertical suspended mounting. The pumps are designed with mounting plate and dry set up motor as standard. The SiC - sliding bearings are lubricated by the medium. Mounting plate and lengths are adjustable to individual requirements. For plants where the sump depths are too deep, these pumps can be supplied as special executions with submersible motors. Series ETP is as well available according to API 610 or API 685.

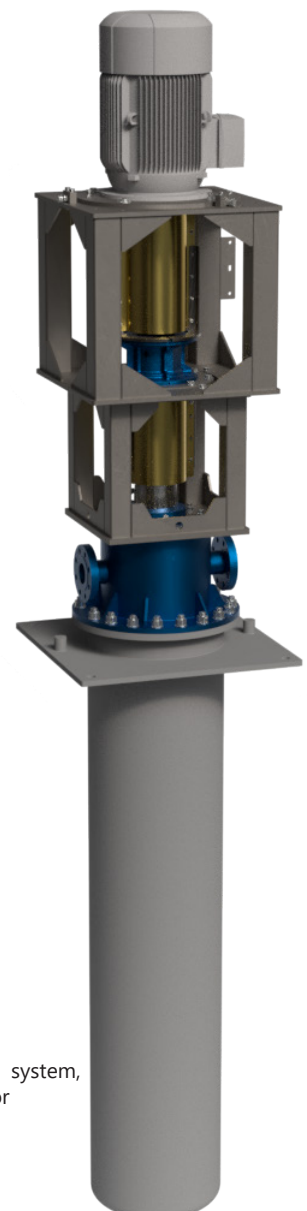
Fields of application

Main field of application of our sump pumps is conveying clean liquids from reservoirs and tanks. Due to the available materials conveying of various aggressive liquids from chemical or petrochemical industry is possible.

Our customers use the sump pumps currently in the following applications: :



- Drainage of tanks and reservoirs
- Conveying of liquids in plants
- Water treatment
- Offshore plants and refineries



ETP with can, bearing system, drive lantern and motor

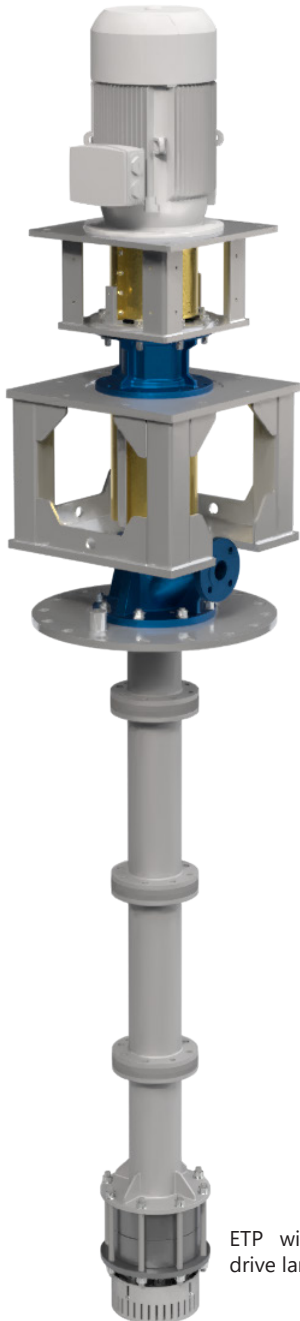


Operating data

Flow:	Q up to 800 m ³ /h
Head:	H up to 320 m
Motor power:	P from 0,55 kW to 455 kW
Casing design pressure:	Series ETP: 40 bar at 20°C

Medium temperatures: from -20°C to 350°C
Mounting length: up to 25 m

Other operating data and variants with heating and cooling jackets are available on request.



ETP with bearing system,
drive lantern and motor



ETP stage casing

STROBL PUMPEN

Multi stage pumps - Series SKP

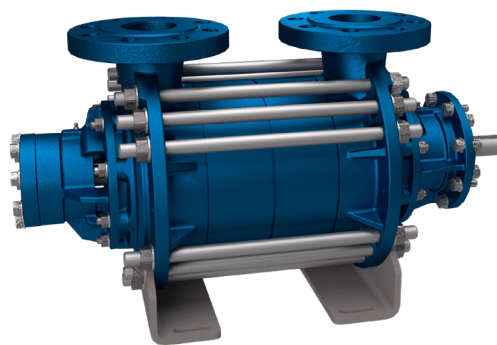
Our multistage normal priming centrifugal pumps, are executed in horizontal or vertical construction. These series has a subseries of pumps for high pressures, with double casing that can be used for pressures of up to 250 bar. The SKP series corresponds to the API 610 or API 685.

Fields of application

Main field of application for multi stage centrifugal pumps series SKP is the increase of pressure in plant construction, as well as process technology. These pumps are suitable for most application scenarios, due to the eligibility of use in high system pressures as well as the different material combinations possible. Our customers currently use our SKP-pumps in the following applications:



- Booster systems
- Plant construction
- Industry
- Process technology
- Reverse osmoses



SKP with free shaft end



Operating data

Flow:	Q up to 280 m ³ /h
Head:	H up to 1000 m
Motor power:	P from 0,75 kW to 225 kW
Casing design pressure:	Series SKP: depending on the execution 40 up to 350 bar at 20°C

Medium temperatures: from -20°C to 350°C

Other operating data and variants with heating and cooling jackets are available on request.



SKPDEL with oil lubricated bearing system,
coupling and motor on drip tray

Your contact

