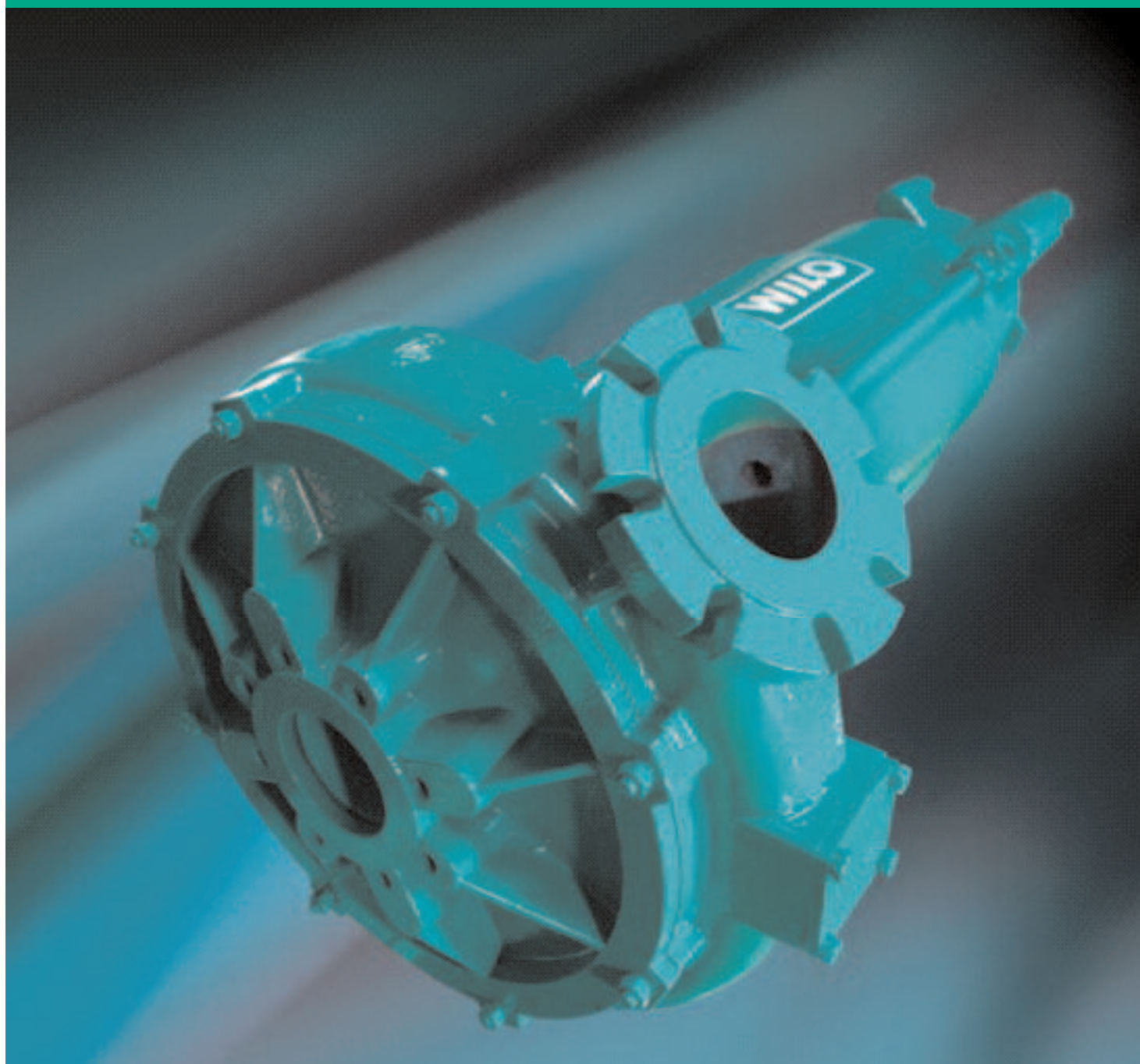


# Submersible Sewage Pumps

*Technical information/product overview*





## Pumpen Intelligenz



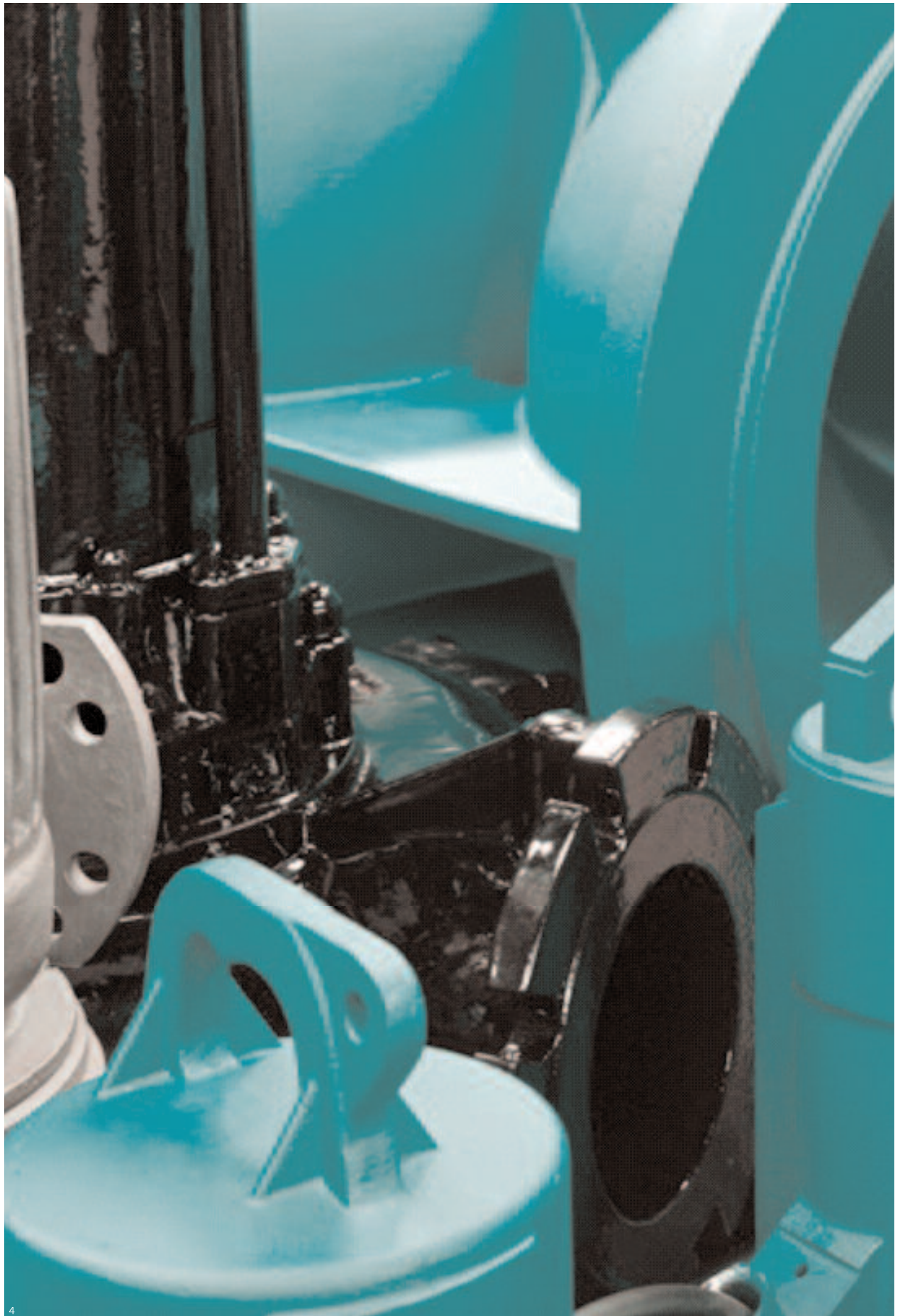


Worldwide the name Wilo is synonymous with the tradition of first class German engineering. Our pumps and pump systems for heating, air conditioning, cooling, water supply and sewage are used in all areas of public life: in commercial buildings, communal facilities, industry as well as in private homes. In close cooperation with our customers, we have over the decades further developed our

know-how from pumps and beyond to system competence.

This know-how is the basis for solutions which are geared towards meeting the special needs of our customers: that is what we call Pumpen Intelligenz.

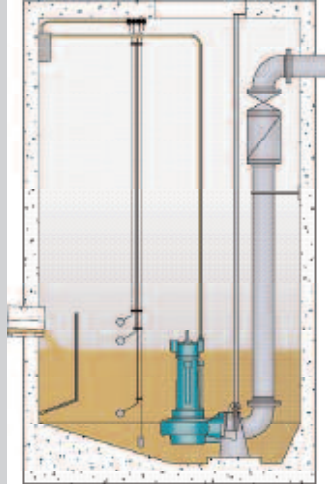




# Installation types

## High economic efficiency with optimum installation

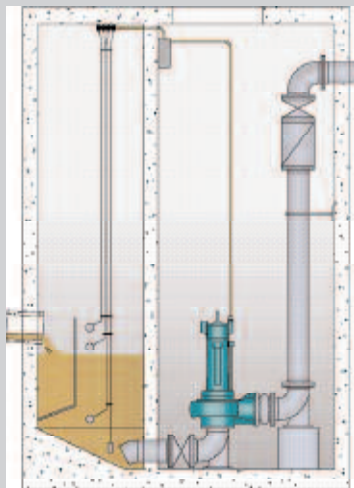
*Tank installation*



### Advantages

- Low costs for construction and installation
- Low space requirements for the pumps
- Easy-to-maintain installation and removal due to suspension device
- Motor cooling by the pumping fluid

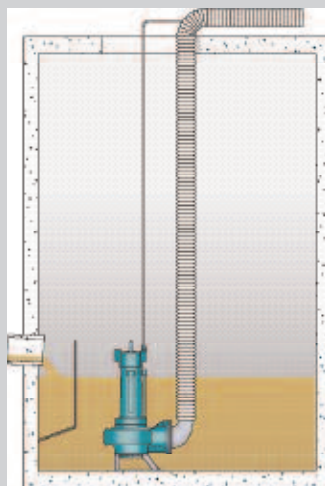
*Dry sump installation*



### Advantages

- Accessible pump compartment
- Pump can be checked during operation
- Maintenance work under hygienic conditions
- Pump secure against flooding
- No external cooling by internal cooling system

*Portable installation*



### Fields of application

- Deep, narrow shafts
- Shallow basins
- Water storage at building sites
- Industrial and municipal disposal area
- Sewer rehabilitation





# Technical information

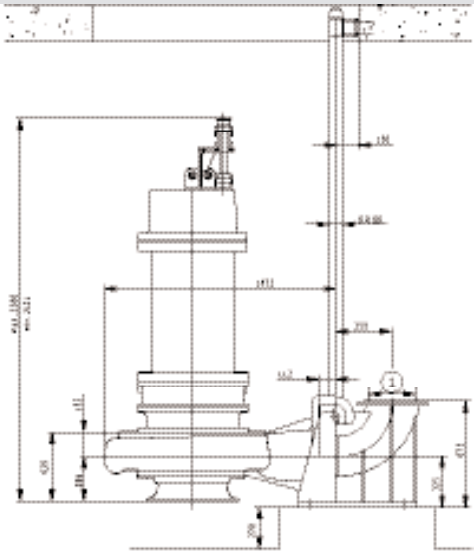
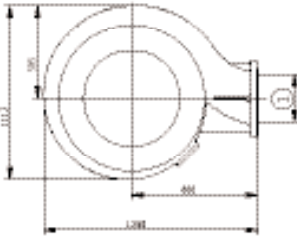
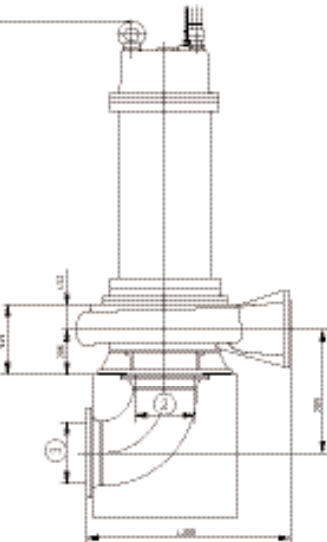
## Pump set-up and performance ranges

Dimension drawing by the example of the FA 30.78 D pump

**Pump:** housing parts, impeller and stationary wear ring in high-quality cast materials (in stainless cast

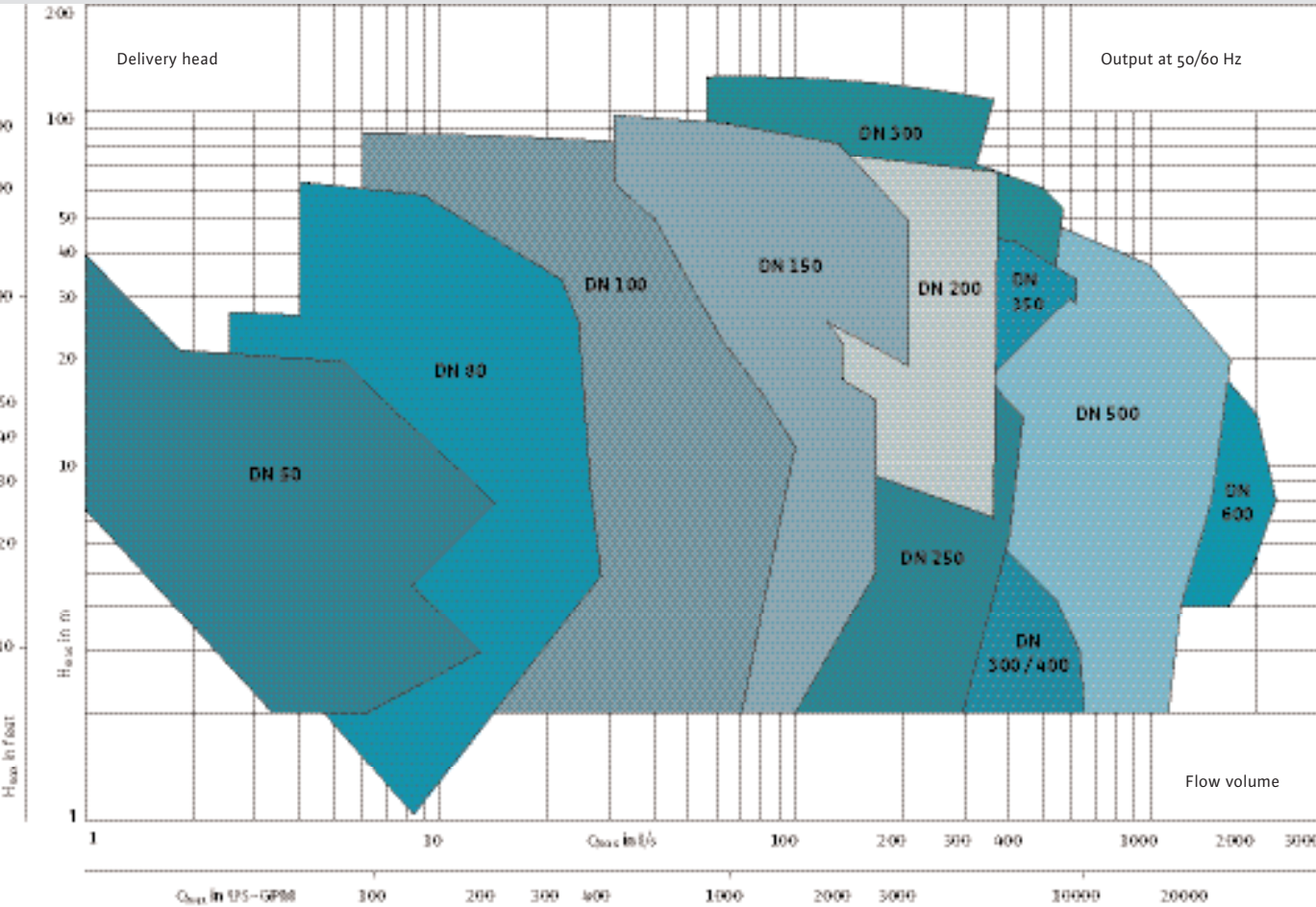
steel on request); screwed fittings and counter ring in stainless steel

**Motor:** housing parts in high-quality cast materials or steel; shaft in high-quality tempered steel, screw fittings in stainless steel



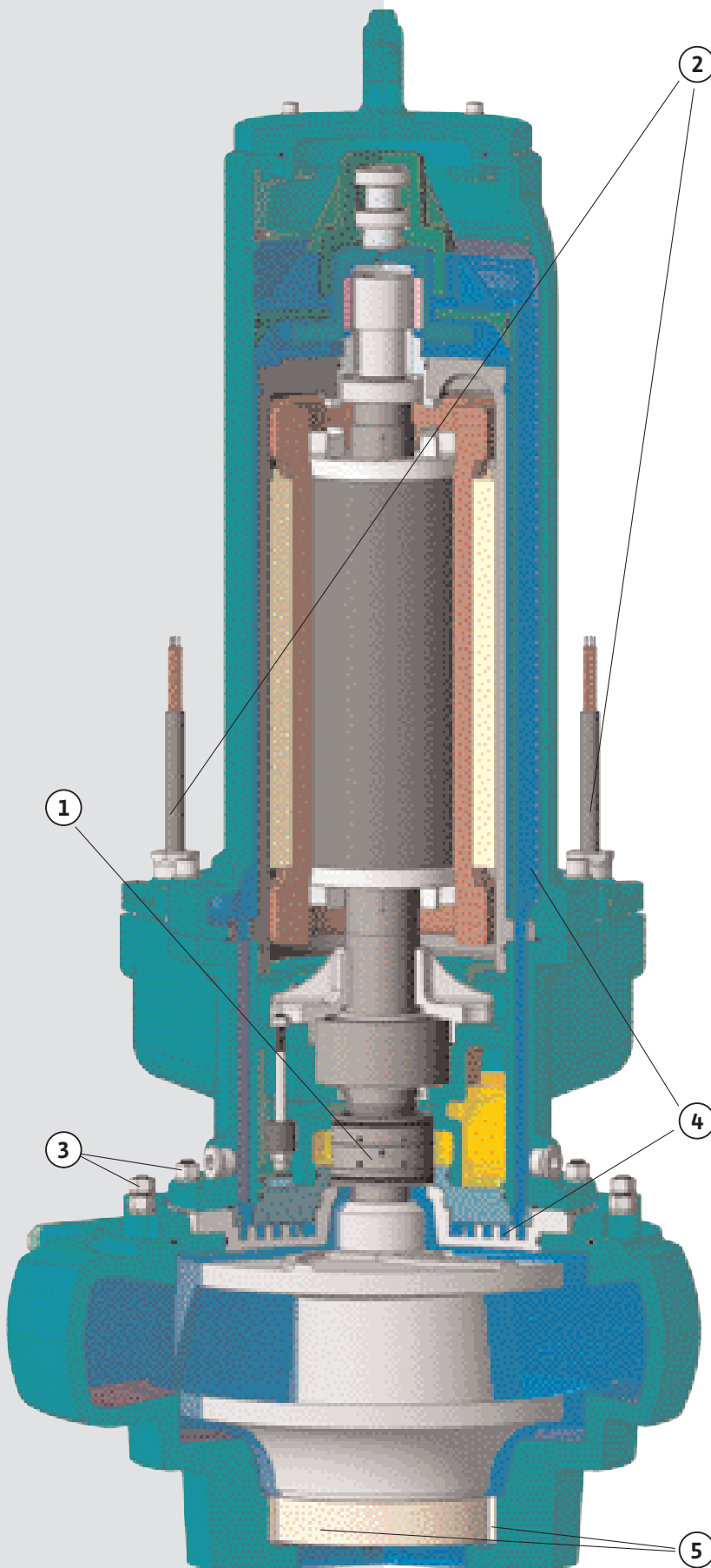
- ① DN 300, PN 10
- ② + ③ DN 400, PN 10

Duty chart overview in sewage area



# Sewage treatment plant version

Low maintenance



## 1 Mechanical seal

Sealing cartridge with two mechanical seals (short design)

## 2 Power lead-in

– NSSHÖU power cable can bear considerable mechanical strain

## 3 V2A/V4A screw fittings

– Quick and inexpensive dismantling due to screw fittings in stainless steel

## 4 Internal closed circuit cooling

– Internal cooling circuit prevents interruption of the cooling process  
– Transfer of the motor heat to the pumping fluid via heat exchanger. Operating temperature and thermal demand on the components remain low

## 5 Stationary wear ring and counter ring

– Stationary wear ring and counter ring in stainless steel protect the pump housing and impeller from premature wear



# Safety

## The individual components



**DI electrode**  
Moisture control in terminal room (b), motor chamber (b) and sealing chamber (a + b)



**Bi-metal**  
Winding temperature monitoring in the motor chamber



**PTC thermistor temperature sensor**  
Winding temperature monitoring in the motor chamber



**Pt 100**  
Winding temperature and storage temperature monitoring



**Thermo float switch**  
Oil level and temperature monitoring in the motor chamber (FO/FK motors)



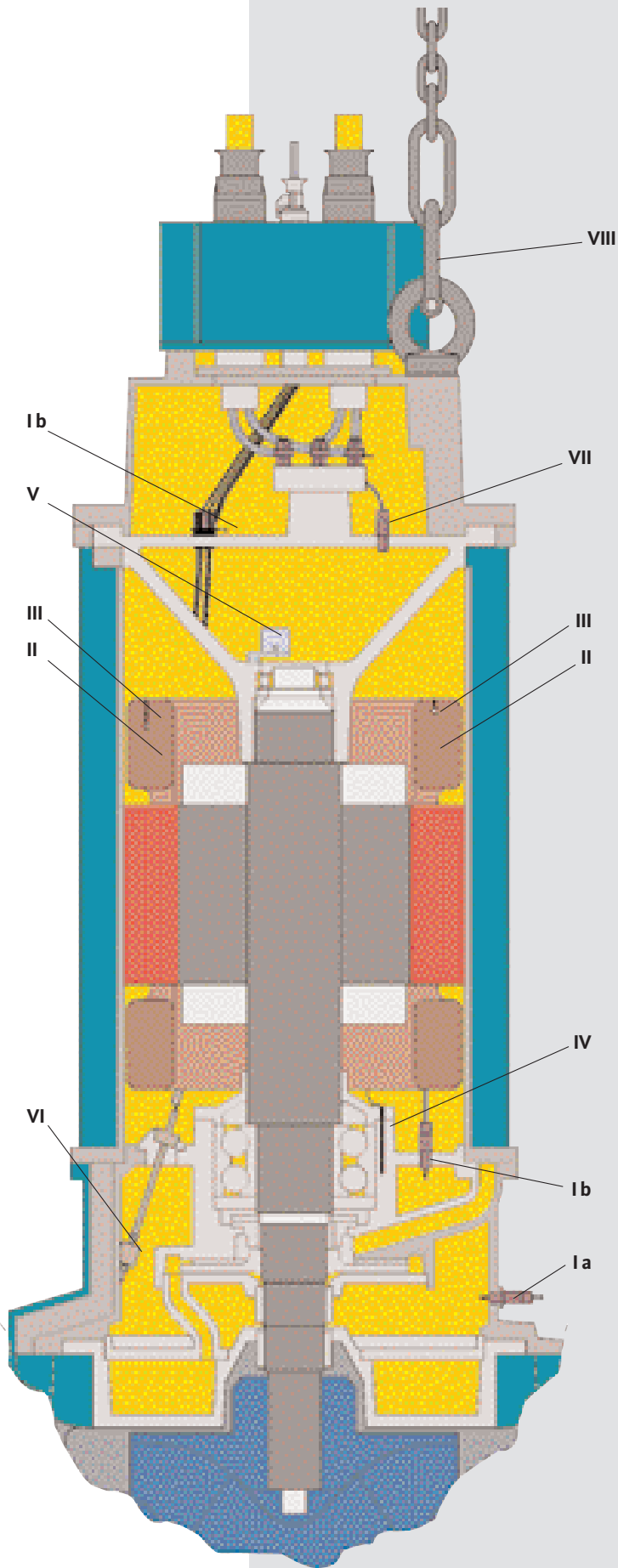
**Float switch**  
Leakage monitoring in the control room



**Pressure switch**  
Pressure monitoring in the motor chamber



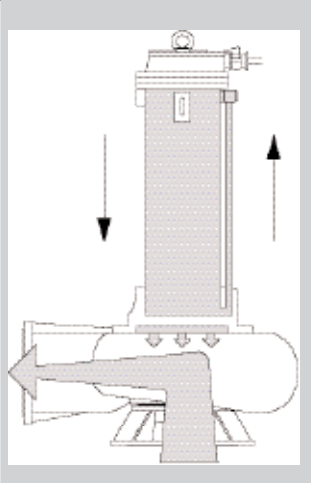
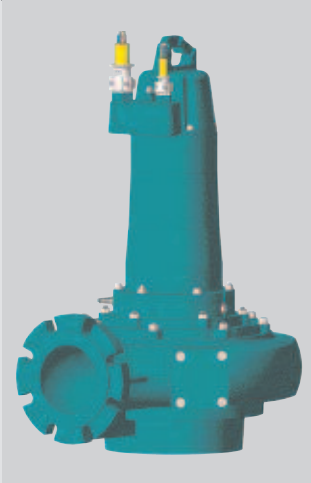
**Chains**  
Installation and removal by means of high-security chains in accordance with DIN 685, with load bearing links



# Motor selection

## FO/FK motors, HC motors

FO/FK motor

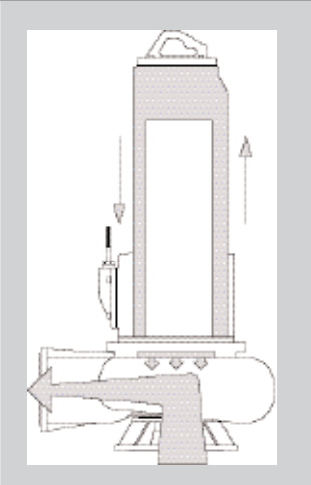
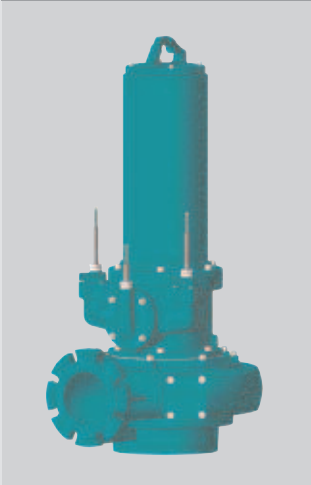


FO/FK motors have an oil-filled motor chamber. The dissipation heat of the motor is transferred to the pumping fluid by means of heat exchangers via an internal oil closed cooling circuit. The FK 17.1 type of this series is available as explosion-proof version (details on request).

Advantages

- Continuous operation with wet and dry installation
- Water level can be lowered considerably also in continuous operation
- Extensive residual emptying possible
- High load capacity
- Cooling irrespective of the type of pumping fluid
- No room ventilation required with dry sump installation
- Shaft volume can be reduced to lower the construction costs

HC motor



The motor chamber of HC motors is dry. They are cooled by a hermetically sealed cooling system filled with water-glycol. The dissipation heat of the motor is transferred to the pumping fluid by the coolant, driven by the magnetic coupling by means of high-efficiency heat exchangers. This series is available as explosion-proof version (details on request).

Advantages

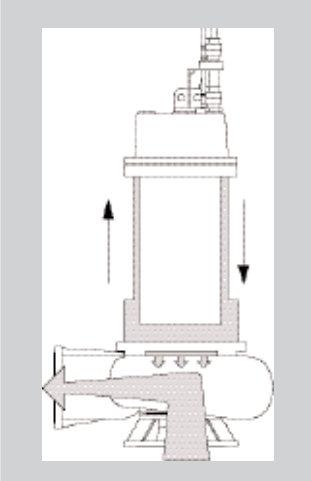
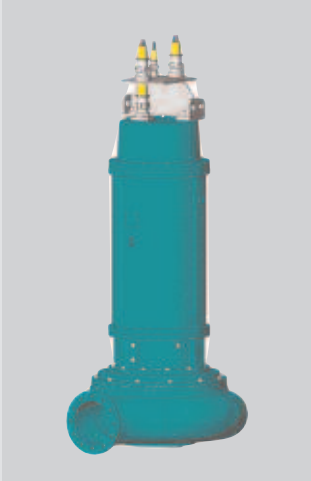
- Two-chamber system which allows the first mechanical seal to be monitored
- Separate leakage chamber, high process reliability
- Cooling system hermetically sealed, no infiltration and loss of fluid possible
- The same advantages as the FO/FK motor



# Motor selection

## FKT motors, T motors

### FKT motor

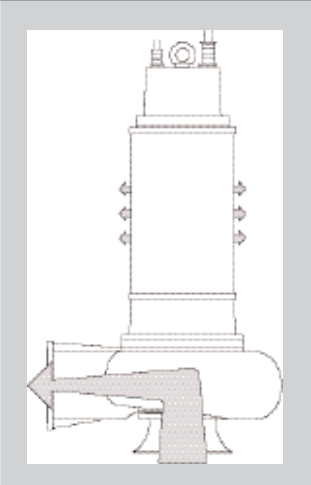
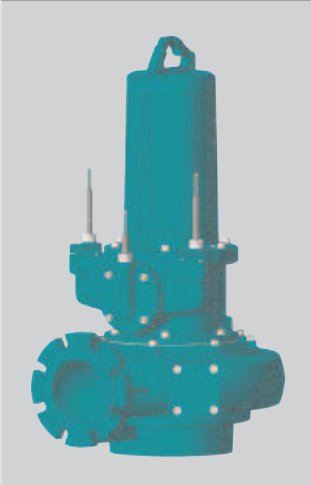


The motor chamber of FKT motors is dry. The dissipation heat of the motor heat is transferred to the pumping fluid by means of heat exchangers via an external closed cooling circuit.

#### Advantages

- Continuous operation with wet and dry installation
- Water level can be lowered considerably also in continuous operation
- Extensive residual emptying possible
- Cooling irrespective of the type of pumping fluid
- No room ventilation required with dry sump installation
- Shaft volume can be reduced to lower the construction costs

### T motor



Air-filled T motors are cooled by the surrounding pumping fluid in immersed condition. The motor heat is dissipated directly via the housing. The types of this series are available as explosionproof versions (details on request).

#### Advantages

- Inexpensive pump/motor combination
- No external cooling required

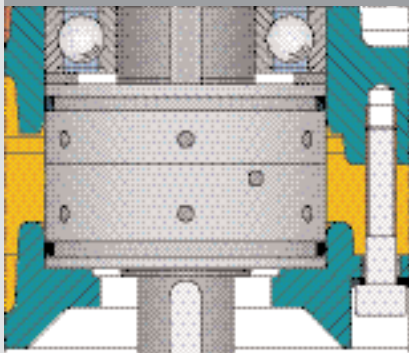




# Sealing systems

## Solutions for any type of application

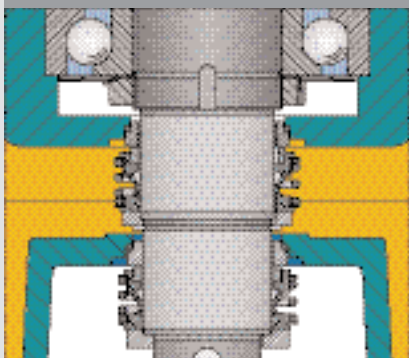
*Sewage treatment plant version with Wilo sealing cartridge*



Mechanical seals of highly wear-proof silicon carbide integrated in the stainless steel cartridge on the motor and pump side ensure:

- High wear and corrosion resistance
- High operational safety
- Long service life
- Operation irrespective of the direction of rotation

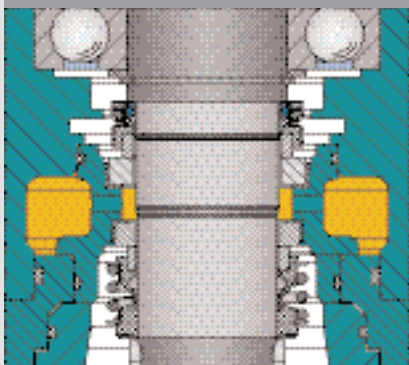
*Sewage treatment version with double mechanical seal – tandem version*



For high demands and difficult operating conditions

- Two mechanical seals of highly wear-proof silicon carbide in tandem

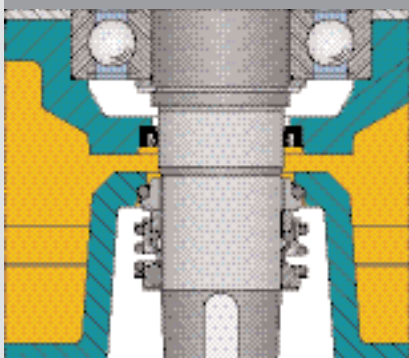
*Sewage treatment plant version with double mechanical seal – “face-to-face” design*



For high demands and difficult operating conditions

- Two mechanical seals in highly wear-proof design

*Standard version*











Inexpensive sealing for normal cases of operation

- Sealing on the pump side by means of highly wear-proof mechanical seal of silicon carbide
- Sealing on the motor side by means of special shaft seal

Material versions

Optimum cost/benefit ratios

Parts	Standard materials					Special materials
	DIN	AISI	ASTM		BS	
<div>Pump housing</div> 	GG 25 GGG 50	— —	A 48–83 A 536–84	Cl 35, 40 60–45–12	1452 Gr 260 2789 Gr 500/7	Ceram ceramic coating Chilled cast iron abrasite 1.4581, 1.4517 Tungsten carbide coating
<div>Motor housing</div> 	GG 25 ST 37–2	— —	A 48–83 —	Cl 35, 40 —	1452 Gr 260 FE 360B 1449 37/ 23 HR	Ceram ceramic coating 1.4581
<div>Impeller</div> 	GG 25 GGG 50	— —	A 48–83 A 536–84	Cl 35, 40 60–45–12	1452 Gr 260 2789 Gr 500/7	Ceram ceramic coating Chilled cast iron abrasite 1.4571, 1.4581, 1.4517 Tungsten carbide coating
<div>Shaft</div> 	1.4021 1.7225	420 4140	A 276 A 322–90b	420 —	420 S 37 708 M 90	1.4401 1.4462 St 70 1.4571
<div>Counter rings</div> 	1.4462 GGG 60	— —	— A 536–84	— 80–55–06	— 2789 Gr 600/3	
<div>Stationary wear rings</div> 	1.4308 1.4571 GGG 50 GGG 60	CF 8 316 Ti — —	A 351/A 743 A 276 A 536–84 A 536–84	— Z316 Ti 60–45–12 80–55–06	304 C 15 320 S 31 2789 Gr 500/7 2789 Gr 600/3	
<div>A 2 screw fittings</div> 	1.4301 1.4303	304 308	A 271/A 276 —	304 —	304 S 15 —	
<div>A 4 screw fittings</div> 	1.4401	316	A 276/A 182	316 Gr F 316	316 S 31	

We will happily check the suitability and application of further materials and coatings for use in corrosive and/or abrasive media in your application.

A 2 or A 4 screw fittings

Alloy type

Steel group according to DIN 267 part 11  
Austenitic chrome–nickel steels

DIN = German Industrial Standard

AISI = American Iron and Steel Institute

ASTM = American Society for Testing and Materials

BS = British standard

Sealing elements

NBR Butadiene acrylonitrile rubber (e.g. Perbunan)

FKM Fluoro rubber (e.g. Viton)

All in accordance with ASTM D 1418

14



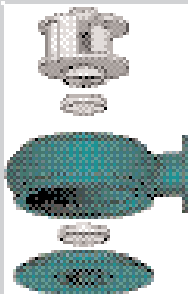
# Impellers

## Modular system



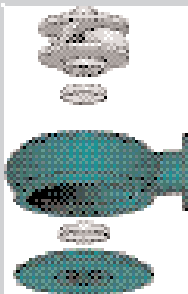
### *Modular system*

Pump hydraulics and motors can be combined individually in the modular system according to a defined code.



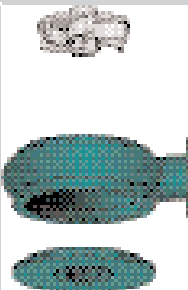
### *Single-channel impeller*

- For pumping very dirty untreated sewage containing solid matter which may also contain fibres which tend to clog up
- For careful pumping of fresh and recycled sludge with solid matter proportions of up to 8 %



### *Multi-channel impeller*

- For pumping slightly dirty, pre-cleaned fluids without fibrous particles, e.g. activated sludge and rainwater
- For pumping untreated sewage with large pumps



### *Vortex impeller*

- For pumping very dirty fluids with large and fibrous particles
- For pumping gaseous sludge with trapped air, such as untreated and digested sludge and untreated sewage with a solid matter concentration of up to 8 %

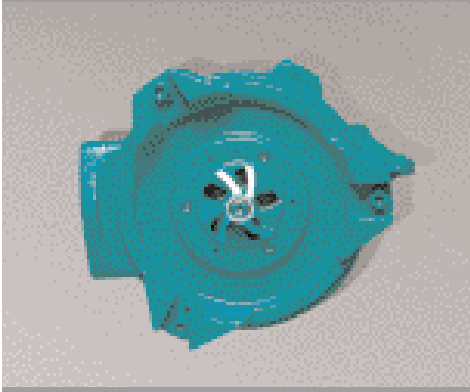


### *Propeller impeller*

- For pumping large amounts of pure, process and waste water at low delivery heads
- Only suitable for pumping fluids which are slightly dirty (e.g. rainwater, recycled sludge, circulation of activated sludge, pumping stations etc.)



*Pump with mechanical stirring apparatus*



*Sewage pumps with macerator*



*Sewage pumps in stainless steel*



*Pump with Ceram C0 ceramic coating*



*Pumps in different materials.*

## Special versions

### Special applications

#### **Sewage pumps with mechanical stirring apparatus**

For clearing grit chambers and sludge lagoons and for stirring deposits. The mixer head and the vortex impeller form a unit.

#### **Sewage pumps with macerator**

For pressurised drainage with long small-sized pipelines. The upstream cutting system cuts up the admixtures in the sewage to the required size. Rotor in abrasite

#### **Sewage pumps in stainless steel**

For pumping aggressive fluids. All parts which come into contact with these fluids are therefore in V 4 A stainless steel quality. A protective hose and elastomers in viton are standard equipment.

#### **Sewage pump with Ceram C0 ceramic coating – applied with airless method**

For inner and outer surfaces subjected to fluids, for protection against saltwater and industrial sewage. Coat thickness of 400 µm, adhesive force of 15 N/mm², solvent-free.

#### **Sewage pumps suitable for dry sump installation (pump part of special material)**

Impeller, sealing flange, pump housing and suction port are of special material and therefore protected against aggressive and abrasive sewage. Motor with ceram coating for protection against aggressive chemicals, cable with protective hose.





# Special materials

## Combination options

### Wear-proof materials and coatings

Wear-proof materials and coatings are increasingly used instead of normal cast materials to pump abrasive pumping fluids in municipal and industrial applications. These special materials withstand abrasive chemicals for a longer time due to their specific properties.

Wilo liquid ceramic Ceram C1, C2, C3, Wilo abrasite (chilled cast iron)

Advantages:

- Very good corrosion protection (Ceram)
- High abrasion-resistance, high wear-resistance
- Resistant against numerous chemicals, oils, greases, solvents, diluted organic and inorganic acids and leaches (Ceram)
- High resistance against corrosive wear, aggressive chemicals and organic solvents (ceram)

### Corrosion-resistant materials and coatings

Corrosion-resistant materials and coatings are required to pump chemically aggressive pumping fluids in industrial applications. These special materials exhibit a high level of corrosion resistance against acids und bases: Wilo liquid ceramic Ceram Co, C1, C2, C3, Wilo-RF 1.4581, Wilo-RF 1.4517, further materials on request

Advantages:

- Very high level of corrosion resistance against acids and bases
- High resistance against intercrystalline corrosion and stress crack corrosion
- Excellent strength and durability values

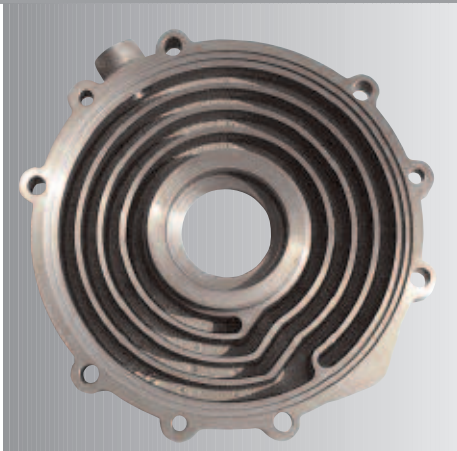
**Attention: Not all combinations are possible. We will find the best solution for you in personal consultation.**



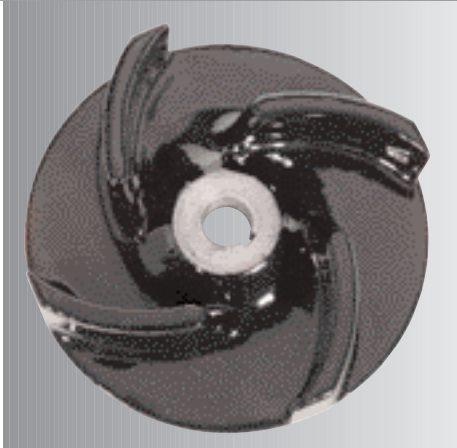
Wear-proof materials and coatings



Corrosion-resistant materials and coatings



Use of stainless and duplex steels



Finish of ceram coating

# Product range

## For every task the right solution

Nominal diameter		R1 <sup>1/4"</sup> / R2 <sup>1/2"</sup> / R2 <sup>1/2"</sup>	DN 50	DN 80	DN 100
Frequency	Hz	50/60	50/60	50/60	50/60
Speed	rpm <sup>-1</sup>	1450–3480	1450–3480	950–3480	950–3480
P <sub>N</sub>	kW	0.55–6.75	0.5–2.00	0.5–17	1.0–42
Flow volume Q <sub>max</sub>	l/s	0–13.5	0–15	0–42	6–110
Delivery head	m	1.0–62	1.0–26	1.0–63	1.0–88
Pump + motor (min/max)	kg	20/62..5	33/42	34/223	108/853
Installation		BA/TA/T	BA/TA/T	BA/TA/T	BA/TA/T
Internal oil cooling		o	o	o	o
Internal water-glycol cooling		–	–	o	o
Standard version, 1 mechanical seal + 1 shaft seal		X	X	X	X
Sewage treatment plant version, 2 mechanical seals		o	o	o	o
Temperature control		X	X	X	X
Special materials					
Coatings					
Ceram ceramic coating		o	o	o	o
Wilo-Diamond-Guard		◇	◇	◇	◇
Tungsten carbide coating		◇	◇	◇	◇
Solid version					
Abrasite chilled cast iron		◇	◇	◇	◇
1.4581 V4 AISI 316		◇	◇	◇	◇
1.4517 duplex		◇	◇	◇	◇

o = special version, X = normal version, – = not available , ◇ = on request

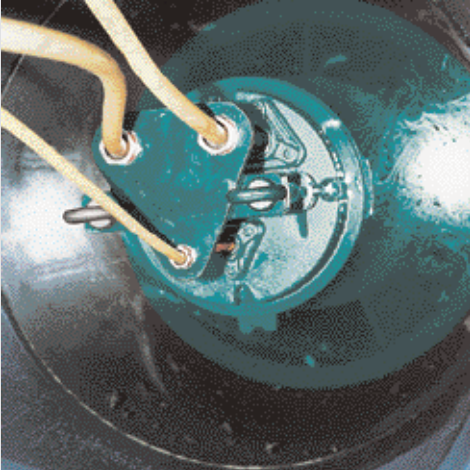


DN 150	DN 200	DN 250	DN 300	DN 350	DN 400	DN 500	DN 600
50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
740-1740	740-1740	740-1740	740-1140	740-1140	740-950	585-950	585-890
3.7-160	3.7-160	3.7-100	75-515	30-310	40-135	27.5-665	120-480
12-210	30-300	35-490	60-600	100-690	100-750	150-1460	650-2400
1.0-100	1.0-67	1.0-56	2.0-118	3.0-60	5.0-35	2.0-58	4.0-33
177/1470	206/1498	210/1210	1056/5335	1115/2348	1422/2727	1444/7030	3380/7130
BA/TA/T	BA/TA/T	BA/TA/T	BA/TA	BA/TA	BA/TA	BA/TA	BA/TA
o	o	o	o	o	o	o	o
o	o	o	◊	◊	◊	◊	◊
X	X	X	—	—	—	—	—
o	o	o	X	X	X	X	X
X	X	X	X	X	X	X	X
o	o	o	o	o	o	o	o
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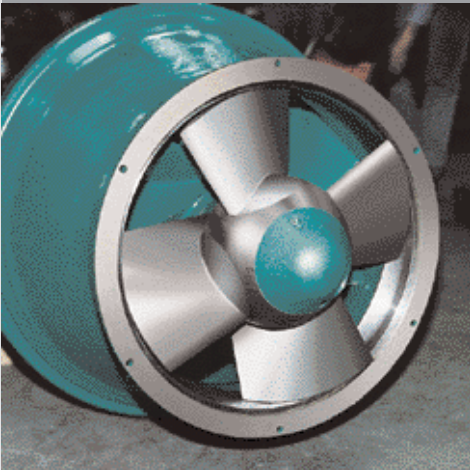
# Axial machines

## Additional water pressure directly in the piping

### Fields of application



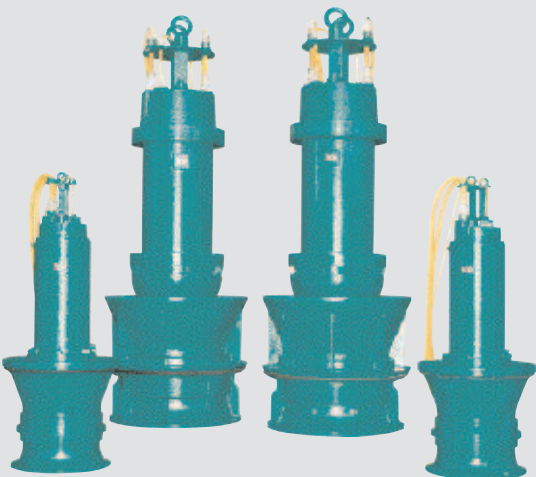
KPR 500 axial machine



KPR 340 axial machine

Axial machines pump large amounts of pure and raw water, river water, pre-cleaned waste water and sewage, process and cooling water or activated sludge at low delivery head. Axial machines are hooked directly into the pressure pipeline. They may be installed vertically or diagonally. Precise planning documents worked out by our experts are required for this purpose.

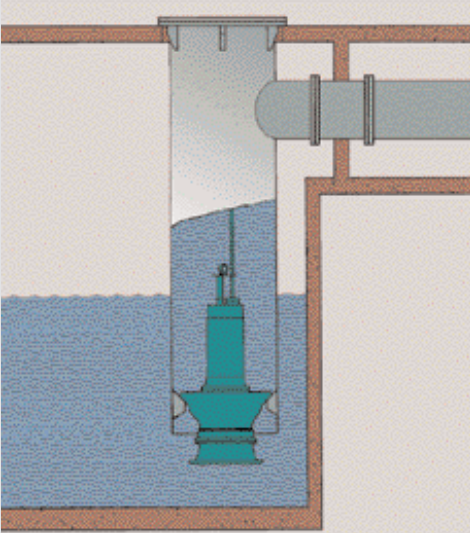
- Submersible, compact installation unit for pumping pure and raw water, river water, pre-cleaned waste water and sewage (without any coarse and fibrous particles), activated sludge, process and cooling water etc.
- Large performance ranges, performance optimisation and adjustment to changed plant conditions due to the overhung manually adjustable axial propeller
- High operational safety due to high efficiency
- Space-saving, economic underfloor installations
- Minimum installation and maintenance effort with non-screw installation in steel or concrete pipes
- Low-noise operation
- Driven by dry-running three-phase asynchronous motor, water pressure-tight, insulation class F for all customary mains supplies. Surface-cooled
- Joint shaft for pump and motor. Maintenance-free, permanently lubricated roller bearing with long service life
- Shaft seal in sewage treatment plant version, two highly wear-proof mechanical seals of solid-material silicon carbide with oil barrier chamber in between them



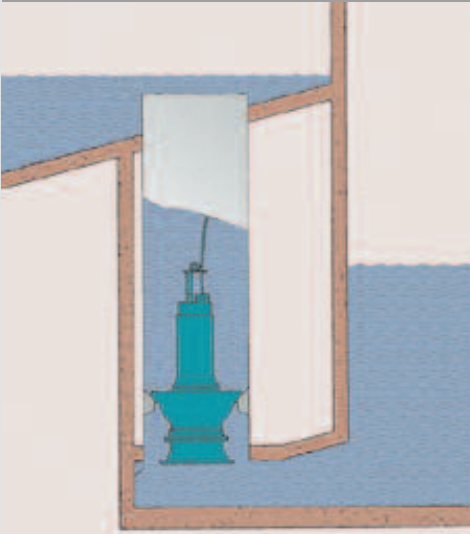
# Axial machines

## Installed vertically or diagonally

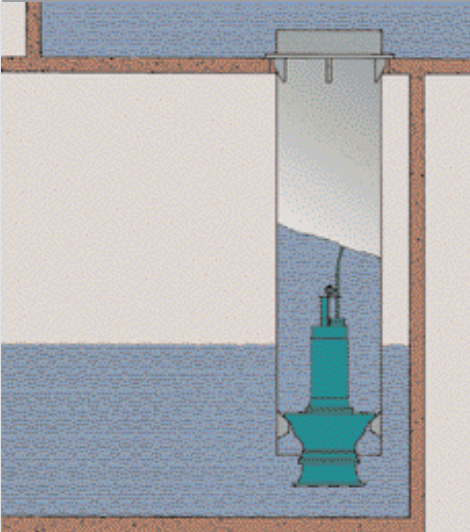
Installation and performance ranges



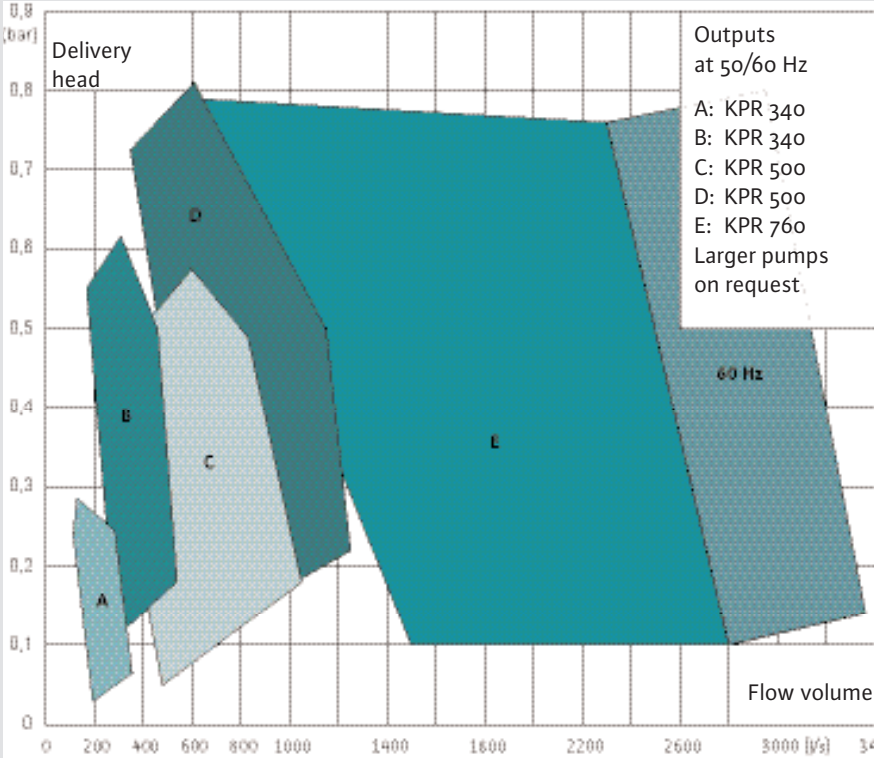
Installation in pipe with underfloor outlet



Installation in pipe in covered inlet chamber



Installation in pipe overflow version



Axial pump		KPR 340	KPR 500	KPR 760
Frequency	Hz	50/60	50/60	50/60
Speed	rpm <sup>-1</sup>	950–1450	740–890	585–700
PN	kW	5.0–37.5	20–82.5	82–285
Flow volume	l/s	100–540	270–1300	600–3400
Delivery head	m	0.3–6.0	0.4–8.0	1.0–8.0
Weight P+M	kg	300–375	715–929	2365–3130
Propeller diameter	mm	340	500	760
Blader material		1,4581	1,4581	1,4581
Adjustable blades		x	x	x
Sewage treatment plant version		x	x	x
Inner pipe diameter	mm	697	797	1100
Ball passage	mm	85	110	130
Temperature control		x	x	x
Moisture monitoring		x	x	x
Ceram ceramic coating		o	o	o
Special coating		o	o	o
Pump with galvanic anodes		o	o	o
Sea–water version		o	o	o

x = standard version    o = special version





Advice and project planning

## Service and standards

### Advantages you can rely on

#### Advice and project planning

Technical expertise and a great deal of experience to support configuration calculations for the determination of sizes, power requirements and where to position the recirculation pump.

#### Installation

Our submersible pumps are installed and completely connected by qualified plant engineers with years of experience in installing pumps.

#### After-sales service and maintenance

Quick and reliable execution of necessary repair and maintenance work, including the provision and delivery of spare parts.

#### DIN EN ISO 9000:2000

The Wilo quality system ensures adherence to quality standards in accordance with DIN EN ISO 9000: 2000 in all operational areas (as of 2000).

#### CE declaration of conformity

Confirms the safety-relevant requirements of the EC machine directive for pumps and pump units. This issue is documented by the CE mark on each pump.

#### Explosion protection

Test certificate for electric equipment in potentially explosive areas.



Installation



Wilo After-sales service



DIN EN ISO 9000:2000



## Wilo – International (Subsidiaries)

**Austria**  
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