

SEV and SE1 ranges 1.1 – 11 kW

– now with analogue sensors



Highly advanced pumps with many unique features

The Grundfos SEV and SE1 ranges are technologically very advanced pumps designed to handle wastewater, process water, and unscreened raw sewage in heavy-duty municipal, utility, and industrial applications.

For monitoring of pump conditions at any given time, pumps are available with analogue sensors.

These heavy-duty pumps are built for years of trouble-free operation in the most demanding applications. The pumps may be installed submerged or dry without motor cooling; in either case they are extremely reliable and very easy to service.

The efficient single-channel or SuperVortex impellers provide free passage of solids up to 100 mm. This greatly reduces the risk of clogging and ensures maximum up-time and reduced operating costs.



➤ Unique liquid-less motor cooling

A solid-block stator housing transfers excess heat to the pumped liquid in the pump housing. This allows for continuous operation in partly submerged or dry installations. No cooling liquid is needed.

➤ Unique cable entry

A polyurethane-filled stainless steel cable connection provides a hermetically sealed cable entry. This totally eliminates the risk of water entering the motor through the cable.

➤ Unique cartridge shaft seal

Primary and secondary mechanical shaft seals are fitted in a single, easy-to-replace compact cartridge unit.

➤ Unique modular design

The SEV and SE1 ranges are designed for maximum flexibility. The detachable motor units are interchangeable and fit both channel impeller and SuperVortex pumps.

➤ Analogue sensors – constant monitoring of pump conditions

The analogue sensors in the SEV and SE1 pumps constantly monitor pump conditions and give excellent opportunities to carry out preventive maintenance thus eliminating unscheduled downtime. Type of sensors are shown on page 5.



Installation

The Grundfos range of heavy-duty sewage pumps, SEV and SE1, can be permanently installed by means of an auto-coupling guide-rail system or with a fixed pipe connection, submerged or dry without separate motor cooling arrangements. The pumps are also suitable for free-standing installation, or as portable utility pumps.



Submerged installation on auto-coupling with guide rails
When installed on an auto-coupling system, the pump automatically connects to a base unit fixed to the bottom of the pump pit.



Submerged free-standing installation, or portable use
Fitted with an optional ring stand, the pumps may be installed free standing in a pump pit, or they can be used as portable utility pumps in non-permanent installations.



Vertical dry installation
Due to the efficient liquid-less motor-cooling system, the SEV and SE1 pumps are suitable for dry installation – either vertically or horizontally – to suit specific application arrangements.

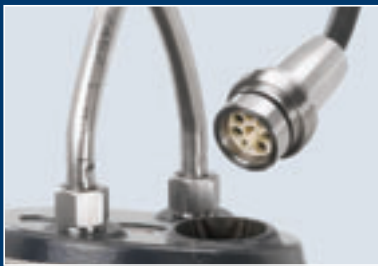


Horizontal dry installation
Horizontal dry installation improves the overall efficiency of the system as unnecessary components and bends are avoided. Special mounting brackets are available for horizontal installation.

Tough and reliable pumps...

Advanced technology inside out

The Grundfos SEV and SE1 pumps feature advanced technology inside out. In spite of their good looks, these highly efficient pumps are designed for years of trouble-free operation in the toughest environments. Easy to install and easy to service, the SEV and SE1 pumps ensure low long-term operation costs.



Watertight cable connection

Polyurethane-filled stainless steel cable connection, hermetically sealed. Ensures that liquid cannot penetrate through the cable into the motor. Different cable lengths are available.



Short rotor shaft

Compact motor construction with short rotor shaft reduces vibrations. Increases efficiency and lifetime of shaft seal and ball bearings.



Liquid-less motor cooling

Solid-block stator housing with built-in cooling conduits, which efficiently transfer excess heat to pumped liquid via a solid cast iron cooling flange. This allows for continuous operation even in dry installations.



Double mechanical shaft seal

Efficient single-unit cartridge shaft seal system ensures longer operation time and less downtime. Easy to replace in the field without use of special tools.



Replaceable wear ring

Easy replaceable stainless steel wear ring on channel impeller and rubber seal ring in the pump housing enable maintaining maximum pumping efficiency without replacing impeller.



– with many unique features



Stainless-steel motor jacket

Extremely robust impact-resistant stainless steel motor-housing jacket. Easy-to-clean smooth surface.



Heavy-duty ball bearings

Double row of angular-contact, maintenance-free lower ball bearings protect against axial and side forces. They ensure correct positioning of impeller in pump housing and provide longer lifetime.



Sensors – in sensor versions

Analogue water-in-oil sensor.
Analogue winding temperature sensor.
Analogue insulation resistance sensor.
Digital moisture sensor.
[Standard version with thermal sensor in motor winding.]



Stainless steel clamp

Unique clamp assembling system enables quick and easy disassembly of pump from motor unit. No tools required. Provides easy access for service and inspection.



Modular design

Each motor size fits several pump sizes with channel-impeller or SuperVortex hydraulics.



SmartSeal

The patented Grundfos SmartSeal, mounted on the guide claw, provides a leak-proof connection, which optimises the efficiency of the pump system and keeps running cost at a minimum.



Grundfos SuperVortex-impeller pumps

A unique impeller design

The design of the Grundfos SuperVortex impeller is truly unique. The special blade vanes ensure high pumping efficiency and excellent air evacuation while preventing clogging or jamming. Depending on pump model, the SuperVortex-impeller allows for free passage of solids of 65 mm, 80 mm, or 100 mm respectively.

The Grundfos SEV pump range with SuperVortex impeller is the ideal choice for applications where abrasive liquids, large quantities of solids, gassy sludge, or fibres are anticipated.



No clogging or jamming

In a pump fitted with a Grundfos SuperVortex impeller, the flow takes place entirely outside the impeller making these pumps ideal for handling heavy and gassy sludge. Long fibres, rags and other solids pass freely through the pump without getting caught by the impeller so that clogging or jamming are avoided. This means less down-time and, consequently, reduced service and maintenance.

No turbulent disturbance

In pumps fitted with conventional vortex impellers, turbulent disturbance is liable to form around the impeller. This will disrupt the flow pattern and result in reduced pumping efficiency and lower head.

With the Grundfos SuperVortex impeller, the liquid passes freely outside the impeller without generating any turbulent disturbance.



Grundfos channel-impeller pumps

Ideal for large flows

The Grundfos channel impellers provide high efficiency and excellent non-clogging capabilities. Depending on pump model, the channel impellers allow for free passage of solids of 50 mm, 80 mm, or 100 mm respectively.

Grundfos SE1 pumps with a 80 or 100 mm channel impeller are ideal for large flows of raw sewage.



Large free passage

The Grundfos channel impellers are of a semi-axial design with extra long vanes. This ensures maximum performance and eliminates problems with fibres getting caught in the impeller, liable to cause clogging. The Grundfos SE1 pumps are capable of handling solids up to 100 mm size.

Replaceable wear ring

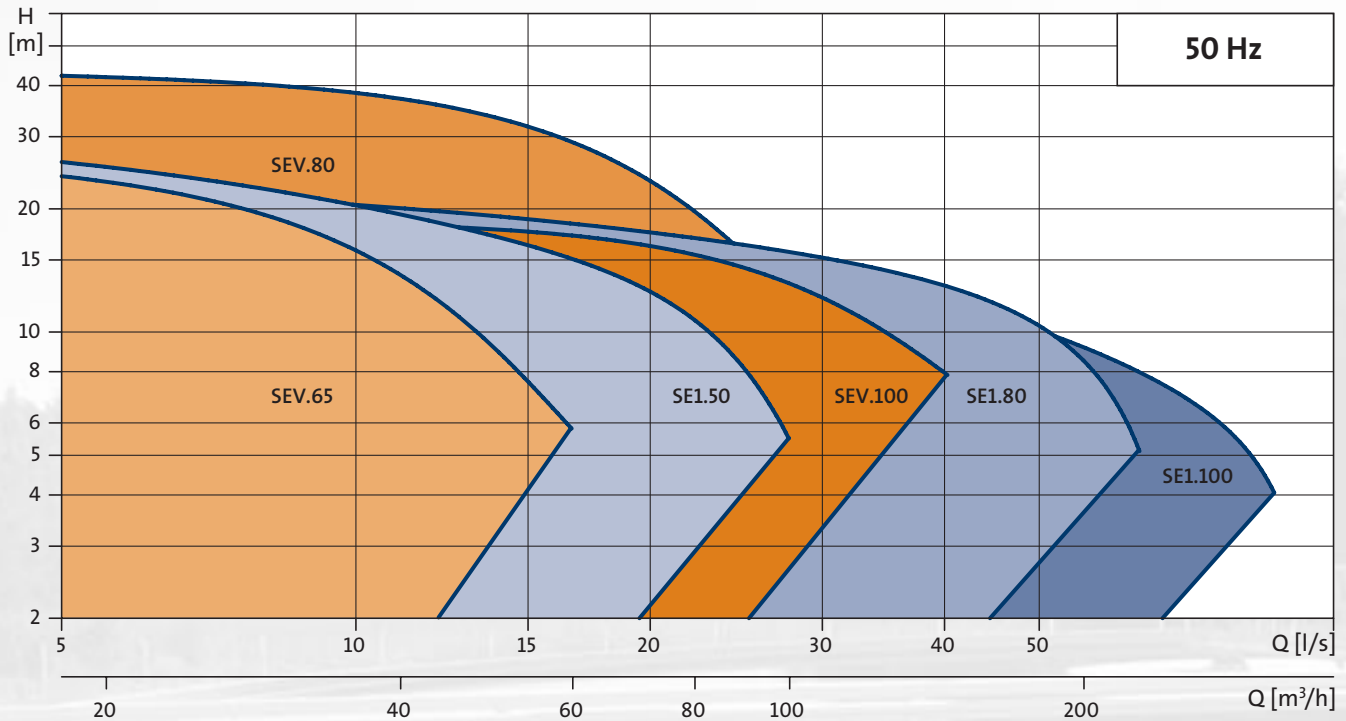
The design of the channel impeller with a replaceable steel wear ring and the corresponding rubber seal ring on the pump housing makes the pump more resistant to wear caused by abrasives in the pumped liquid.

The system enables maintaining maximum pumping efficiency for extended periods without replacing the impeller. The result is less clogging and less downtime.



Performance overview and type key

Performance overview – Grundfos SEV and SE1 pumps



Type key

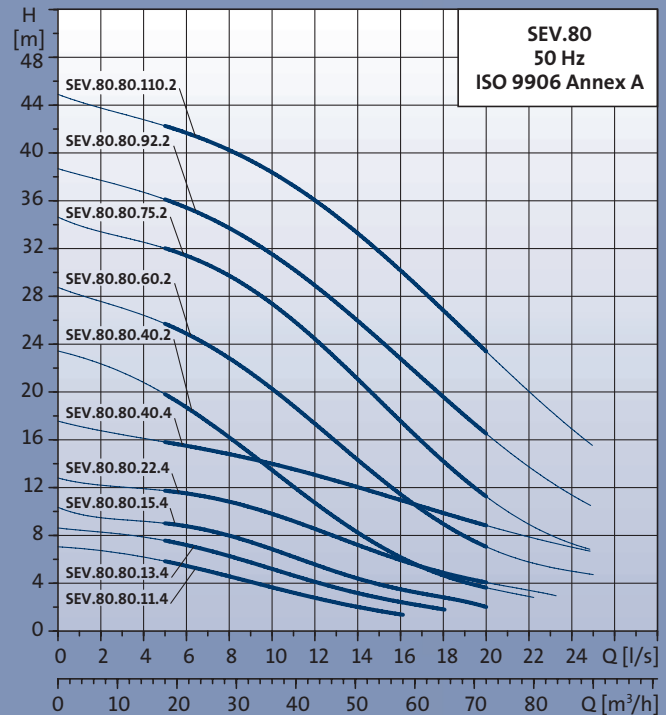
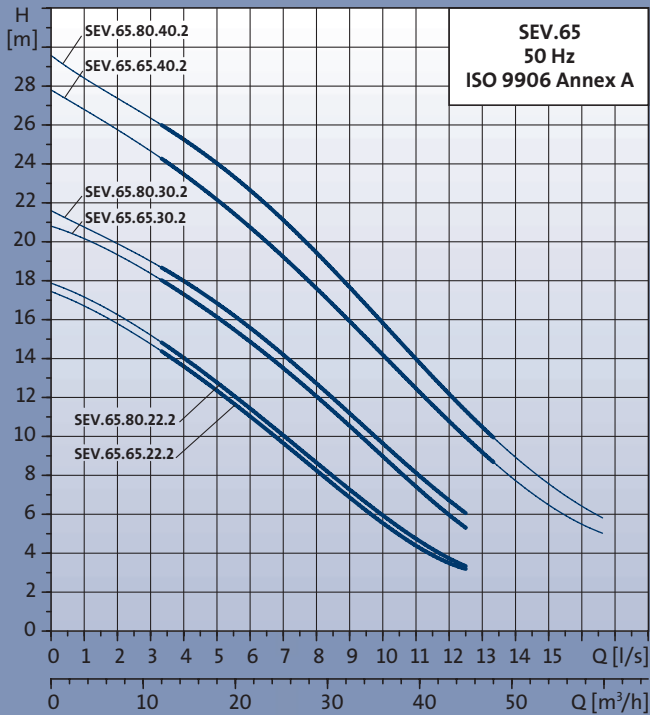
The Grundfos SEV and SE1 pumps can be identified by means of the type key below.

The pump type designation is printed on the nameplate, located on the top cover of the pump.

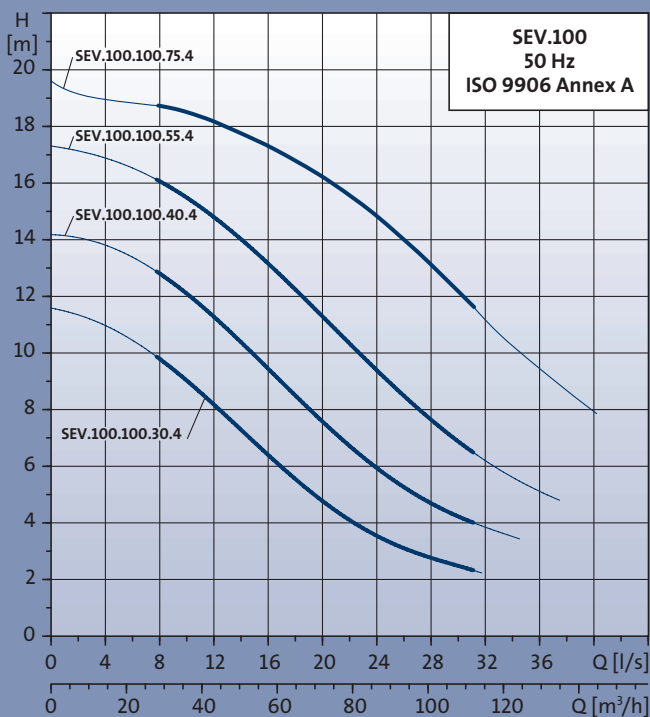
Code	Example: SE 1 .80 .80 .40 .A .Ex .4 .5 1D
Pump type SE Grundfos wastewater pump/sewage pump	
Impeller type 1 Channel impeller, number of channels V Free-flow impeller (SuperVortex)	
Pump passage 80 Maximum solids size [mm]	
Pump discharge 80 Nominal diameter of pump discharge port [mm]	
Power 40 Motor output power P ₂ /100 [W]	
Equipment [] Standard A Sensor version	
Pump versions [] Standard pump Ex Explosion-proof pump	
Number of poles 2 2-pole, 3000 min ⁻¹ , 50 Hz 4 4-pole, 1500 min ⁻¹ , 50 Hz	
Frequency 5 50 Hz	
Voltage and starting method OD 380-415 V, DOL, 50 Hz 1D 380-415 V, Y/D, 50 Hz OE 220-240 V, DOL, 50 Hz 1E 220-240 V, Y/D, 50 Hz OB 400-415 V, DOL, 50 Hz	
Generation [] First generation A Second generation B Third generation, etc. The generation code distinguishes between structurally different pumps which have the same power rating	
Material in pump [] Standard	

Grundfos SuperVortex-impeller range

Performance curves



The figures attached to each curve indicate pump type. Bold curve lines indicate recommended operation area. Please refer to tables on page 12 for pump designation and technical data.

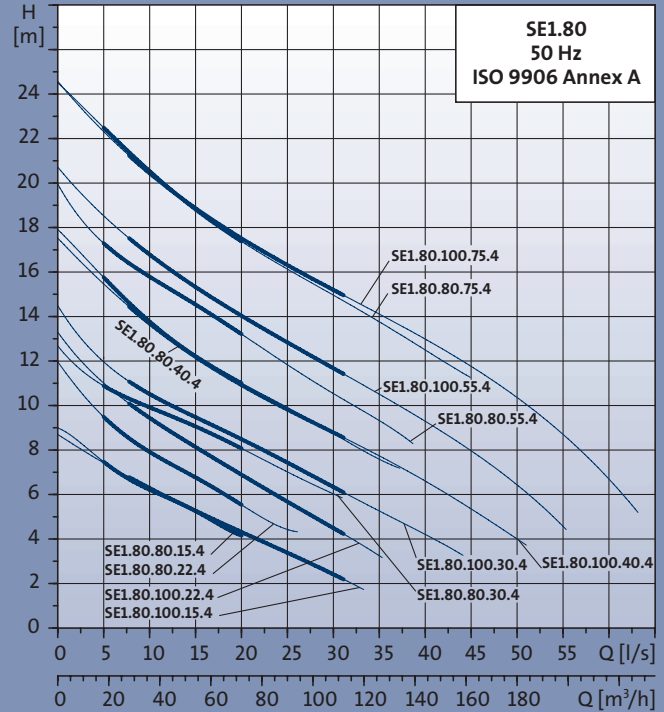
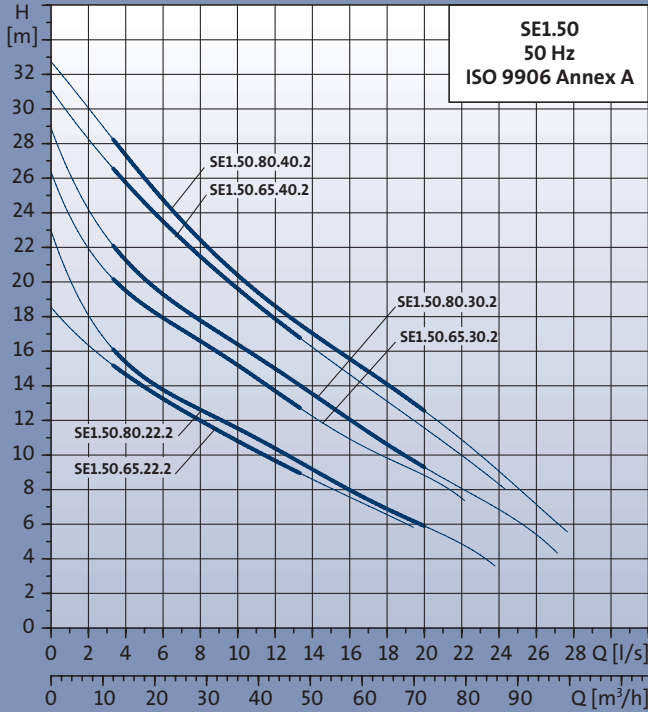


The Grundfos SuperVortex range comprises a large number of variants designed for pumping abrasive wastewater, process water, sludge, and unscreened raw sewage with a pH value of 4-10 and with a high content of fibres and solids up to 100 mm size.

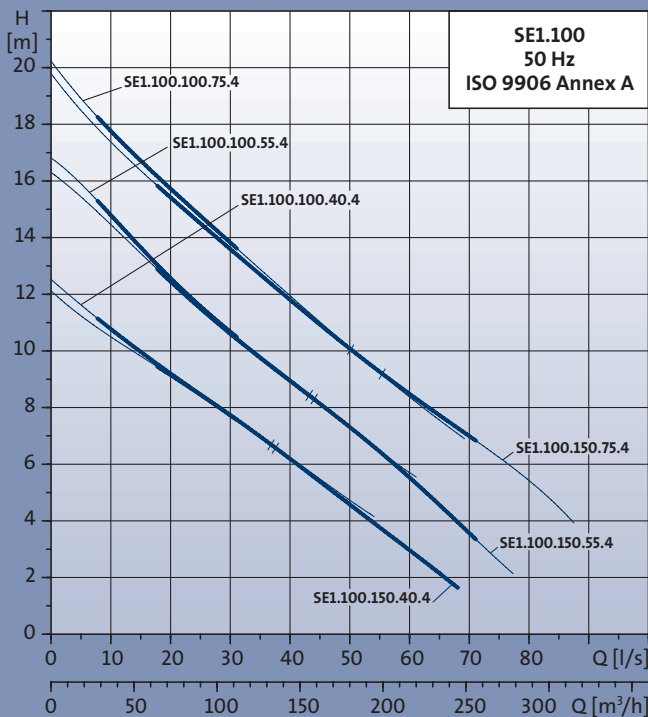


Grundfos single channel-impeller range

Performance curves



The figures attached to each curve indicate pump type. Bold curve lines indicate recommended operation area. Please refer to tables on page 14 for pump designation and technical data.



The Grundfos range of single channel-impeller pumps comprises a large number of variants designed for pumping large quantities of wastewater, process water, and unscreened raw sewage with a pH value of 4-10, containing solids up to 100 mm size.



Material specifications

Description	Material	DIN W.-Nr. / EN Standard	AISI / ASTM
O-rings	NBR rubber		
Seal ring for inlet (SE1 pumps only)	NBR rubber (reinforcement stainless steel)	1.4301	304
Impeller	Cast iron	EN-JL1030/GG20	
Wear ring impeller	Stainless steel	1.4301	304
Pump housing	Cast iron	EN-JL1030/GG20	
Stator housing	Aluminium	EN AB-AISI10mg	
Cover for oil chamber	Cast iron	EN-JL 1030/GG20	
Bearing cover	Cast iron	EN-JL 1030/GG20	
Primary bearing retainer	Cast iron	EN-GJS-450-10/GGG45	
Support bearing retainer	Cast iron	EN-JL1040/GG25	
Spring pin (intermediate flange/pump housing)	Ø8x22	A2	304
Clamp	Stainless steel	1.4401	316
Cartridge shaft seal system	Stainless steel		
Primary seal	SiC/SiC	1.4408	ASTM 351 (CF8M)
Secondary seal	Carbon/Ceramic		
Motor jacket	Stainless steel	1.4301 (Optional 1.4401)	304 (316)
Motor top	Cast iron	EN-JL1040/GG25	
Primary bearing	Double-row angular contact ball bearing from 3 kW (4-pole) and 4 kW (2-pole) motor		
Support bearing	Ball bearing		
Intermediate flange	Cast iron	EN-JL1040/GG25	
Shaft/rotor	Regular iron/Stainless steel	1.0533/1.4301	304
Screws	Stainless steel	A2	304
Washer	Stainless steel	A2	304
Cable entry	Stainless steel	1.4408	ASTM 351 (CF8M)
Cable	H07RN-F		
Lifting bracket	Stainless steel	1.4401	316
Oil	Shell Ondina 917		
Epoxy coating	Colour: NSC S 8005 R80B		

Operating conditions

The Grundfos SEV and SE1 pumps are suitable for continuous submerged operation with a liquid level just above the pump housing, or in a dry installation without separate motor cooling arrangements.

Maximum temperature of pumped liquid: 40°C.

For short periods, maximum one hour, up to 60°C is permissible (non-Ex versions only).

Ambient temperature limitations: 40°C

Maximum submersion: 20 m

Pump start frequency should not exceed 20 starts/stops per hour.

Approvals

All 50 Hz SEV and SE1 pumps have been approved, according to DIN EN 12050-1 for use in buildings services by the German Building Technology Institute.

Explosion-proof versions

For applications involving a risk of explosion, or where otherwise required, explosion-proof versions of the Grundfos SEV and SE1 pumps are available: II 2 GD, EEx dc IIB T4, T3, IP68, T 135°C, T 200°C explosion protection classification according to EN standards 50 014-1997 / 50 018-2000 / 50 281-1-1.

The SEV and SE1 pumps are also available with a Class 1 Zone 2, Ex nA IIB 200°C (T3) classification in accordance with the IEC 60079-15:1987.

Grundfos SuperVortex-impeller range

Electrical data, pump type and product numbers

SEV.65, DN 65 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SEV.65.65.22.2.50D	96047697	96177653	2.8	2.2	2895	3x380-415	D.O.L.	5.0	37	89
SEV.65.65.22.2.50E	96047705	96338746	2.8	2.2	2895	3x220-240	D.O.L.	8.7	64	89
SEV.65.65.30.2.50D	96047713	96177654	3.8	3.0	2910	3x380-415	D.O.L.	6.6	51	92
SEV.65.65.30.2.50E	96047721	96338747	3.8	3.0	2910	3x220-240	D.O.L.	11.4	88	92
SEV.65.65.40.2.51D	96047729	96177655	4.8	4.0	2925	3x380-415	Y/Δ start	8.6	71	128
SEV.65.65.40.2.51E	96047737	96338748	4.8	4.0	2925	3x220-240	Y/Δ start	14.9	123	128

SEV.65, DN 80 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SEV.65.80.22.2.50D	96048169	96177656	2.8	2.2	2895	3x380-415	D.O.L.	5.0	37	90
SEV.65.80.22.2.50E	96048177	96338749	2.8	2.2	2895	3x220-240	D.O.L.	8.7	64	90
SEV.65.80.30.2.50D	96048185	96177657	3.8	3.0	2910	3x380-415	D.O.L.	6.6	51	94
SEV.65.80.30.2.50E	96048193	96338750	3.8	3.0	2910	3x220-240	D.O.L.	11.4	88	94
SEV.65.80.40.2.51D	96048201	96177658	4.8	4.0	2925	3x380-415	Y/Δ start	8.6	71	126
SEV.65.80.40.2.51E	96048209	96338751	4.8	4.0	2925	3x220-240	Y/Δ start	14.9	123	126

SEV.80, DN 80 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SEV.80.80.11.4.50D	96047745	96177659	1.5	1.1	1440	3x380-415	D.O.L.	2.8	13	95
SEV.80.80.11.4.50E	96047751	96338752	1.5	1.1	1440	3x220-240	D.O.L.	4.9	22	95
SEV.80.80.13.4.50D	96047757	96177660	1.8	1.3	1440	3x380-415	D.O.L.	3.8	22	103
SEV.80.80.13.4.50E	96047763	96338753	1.8	1.3	1440	3x220-240	D.O.L.	6.5	38	103
SEV.80.80.15.4.50D	96047769	96177661	2.1	1.5	1435	3x380-415	D.O.L.	4.2	22	103
SEV.80.80.15.4.50E	96047775	96338754	2.1	1.5	1435	3x220-240	D.O.L.	7.3	38	103
SEV.80.80.22.4.50D	96047781	96177662	2.9	2.2	1445	3x380-415	D.O.L.	5.9	32	106
SEV.80.80.22.4.50E	96047789	96338755	2.9	2.2	1445	3x220-240	D.O.L.	10.2	55	106
SEV.80.80.40.4.51D	96047797	96177663	4.9	4.0	1460	3x380-415	Y/Δ start	10.0	67	143
SEV.80.80.40.4.51E	96047813	96338756	4.9	4.0	1460	3x220-415	Y/Δ start	17.2	116	143
SEV.80.80.40.2.51D	96047829	96177664	4.8	4.0	2925	3x380-415	Y/Δ start	8.6	71	131
SEV.80.80.40.2.51E	96047837	96338757	4.8	4.0	2925	3x220-240	Y/Δ start	14.9	123	131
SEV.80.80.60.2.51D	96047845	96177665	7.1	6.0	2945	3x380-415	Y/Δ start	13.9	148	141
SEV.80.80.60.2.51E	96047853	96338758	7.1	6.0	2945	3x220-240	Y/Δ start	23.9	256	141
SEV.80.80.75.2.51D	96047861	96177666	8.9	7.5	2940	3x380-415	Y/Δ start	16.2	152	142
SEV.80.80.75.2.51E	96047869	96338759	8.9	7.5	2940	3x220-240	Y/Δ start	27.9	263	142
SEV.80.80.92.2.51D	96047207	96177667	10.5	9.2	2935	3x380-415	Y/Δ start	18.0	162	190
SEV.80.80.92.2.51E	96047195	96338760	10.5	9.2	2935	3x220-240	Y/Δ start	31.0	280	190
SEV.80.80.110.2.51D	96047877	96177668	12.6	11.0	2935	3x380-415	Y/Δ start	21.7	162	195
SEV.80.80.110.2.51E	96047885	96338761	12.6	11.0	2935	3x220-240	Y/Δ start	37.5	280	195

SEV.100, DN 100 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SEV.100.100.30.4.50D	96047893	96177669	3.7	3.0	1455	3x380-415	D.O.L.	7.8	43	133
SEV.100.100.30.4.50E	96047909	96338762	3.7	3.0	1455	3x220-240	D.O.L.	13.4	74	133
SEV.100.100.40.4.51D	96047925	96177670	4.9	4.0	1460	3x380-415	Y/Δ start	10.0	67	141
SEV.100.100.40.4.51E	96047933	96338763	4.9	4.0	1460	3x220-240	Y/Δ start	17.2	116	141
SEV.100.100.55.4.51D	96047941	96177671	6.5	5.5	1455	3x380-415	Y/Δ start	13.4	87	146
SEV.100.100.55.4.51E	96047949	96338764	6.5	5.5	1455	3x220-240	Y/Δ start	23.2	150	146
SEV.100.100.75.4.51D	96047957	96177672	9.0	7.5	1455	3x380-415	Y/Δ start	17.3	107	190
SEV.100.100.75.4.51E	96047965	96338765	9.0	7.5	1455	3x220-240	Y/Δ start	29.9	185	190

Electrical data, pump type and product numbers

SEV.65, Ex-pumps DN 65 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SEV.65.65.22.Ex.2.50D	96047701	96177697	2.8	2.2	2895	3x380-415	D.O.L.	5.0	37	89
SEV.65.65.22.Ex.2.50E	96047709	96338766	2.8	2.2	2895	3x220-240	D.O.L.	8.7	64	89
SEV.65.65.30.Ex.2.50D	96047717	96177698	3.8	3.0	2910	3x380-415	D.O.L.	6.6	51	92
SEV.65.65.30.Ex.2.50E	96047725	96338767	3.8	3.0	2910	3x220-240	D.O.L.	11.4	88	92
SEV.65.65.40.Ex.2.51D	96047733	96177699	4.8	4.0	2925	3x380-415	Y/Δ start	8.6	71	128
SEV.65.65.40.Ex.2.51E	96047741	96338768	4.8	4.0	2925	3x220-240	Y/Δ start	14.9	123	128

SEV.65, Ex-pumps DN 80 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SEV.65.80.22.Ex.2.50D	96048173	96177700	2.8	2.2	2895	3x380-415	D.O.L.	5.0	37	90
SEV.65.80.22.Ex.2.50E	96048181	96338769	2.8	2.2	2895	3x220-240	D.O.L.	8.7	64	90
SEV.65.80.30.Ex.2.50D	96048189	96177701	3.8	3.0	2910	3x380-415	D.O.L.	6.6	51	94
SEV.65.80.30.Ex.2.50E	96048197	96338770	3.8	3.0	2910	3x220-240	D.O.L.	11.4	88	94
SEV.65.80.40.Ex.2.51D	96048205	96177702	4.8	4.0	2925	3x380-415	Y/Δ start	8.6	71	126
SEV.65.80.40.Ex.2.51E	96048213	96338771	4.8	4.0	2925	3x220-240	Y/Δ start	14.9	123	126

SEV.80, Ex-pumps DN 80 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SEV.80.80.11.Ex.4.50D	96047748	96177703	1.5	1.1	1440	3x380-415	D.O.L.	2.8	13	95
SEV.80.80.11.Ex.4.50E	96047754	96338772	1.5	1.1	1440	3x220-240	D.O.L.	4.9	22	95
SEV.80.80.13.Ex.4.50D	96047760	96177704	1.8	1.3	1440	3x380-415	D.O.L.	3.8	22	103
SEV.80.80.13.Ex.4.50E	96047766	96338773	1.8	1.3	1440	3x220-240	D.O.L.	6.5	38	103
SEV.80.80.15.Ex.4.50D	96047772	96177705	2.1	1.5	1435	3x380-415	D.O.L.	4.2	22	103
SEV.80.80.15.Ex.4.50E	96047778	96338774	2.1	1.5	1435	3x220-240	D.O.L.	7.3	38	103
SEV.80.80.22.Ex.4.50D	96047785	96177706	2.9	2.2	1445	3x380-415	D.O.L.	5.9	32	106
SEV.80.80.22.Ex.4.50E	96047793	96338775	2.9	2.2	1445	3x220-240	D.O.L.	10.2	55	106
SEV.80.80.40.Ex.4.51D	96047801	96177707	4.9	4.0	1460	3x380-415	Y/Δ start	10.0	67	143
SEV.80.80.40.Ex.4.51E	96047817	96338776	4.9	4.0	1460	3x220-240	Y/Δ start	17.2	116	143
SEV.80.80.40.Ex.2.51D	96047833	96177708	4.8	4.0	2925	3x380-415	Y/Δ start	8.6	71	131
SEV.80.80.40.Ex.2.51E	96047841	96338777	4.8	4.0	2925	3x220-240	Y/Δ start	14.9	123	131
SEV.80.80.60.Ex.2.51D	96047849	96177709	7.1	6.0	2945	3x380-415	Y/Δ start	13.9	148	141
SEV.80.80.60.Ex.2.51E	96047857	96338778	7.1	6.0	2945	3x220-240	Y/Δ start	23.9	256	141
SEV.80.80.75.Ex.2.51D	96047865	96177710	8.9	7.5	2940	3x380-415	Y/Δ start	16.2	152	142
SEV.80.80.75.Ex.2.51E	96047873	96338779	8.9	7.5	2940	3x220-240	Y/Δ start	27.9	263	142
SEV.80.80.92.Ex.2.51D	96047204	96177711	10.5	9.2	2935	3x380-415	Y/Δ start	18.0	162	190
SEV.80.80.92.Ex.2.51E	96047192	96338780	10.5	9.2	2935	3x220-240	Y/Δ start	31.0	280	190
SEV.80.80.110.Ex.2.51D	96047881	96177712	12.6	11.0	2935	3x380-415	Y/Δ start	21.7	162	195
SEV.80.80.110.Ex.2.51E	96047889	96338781	12.6	11.0	2935	3x220-240	Y/Δ start	37.5	280	195

SEV.100, Ex-pumps DN 100 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SEV.100.100.30.Ex.4.50D	96047897	96177713	3.7	3.0	1455	3x380-415	D.O.L.	7.8	43	133
SEV.100.100.30.Ex.4.50E	96047913	96338782	3.7	3.0	1455	3x220-240	D.O.L.	13.4	74	133
SEV.100.100.40.Ex.4.51D	96047929	96177714	4.9	4.0	1460	3x380-415	Y/Δ start	10.0	67	141
SEV.100.100.40.Ex.4.51E	96047937	96338783	4.9	4.0	1460	3x220-240	Y/Δ start	17.2	116	141
SEV.100.100.55.Ex.4.51D	96047945	96177715	6.5	5.5	1455	3x380-415	Y/Δ start	13.4	87	146
SEV.100.100.55.Ex.4.51E	96047953	96338784	6.5	5.5	1455	3x220-240	Y/Δ start	23.2	150	146
SEV.100.100.75.Ex.4.51D	96047961	96177716	9.0	7.5	1455	3x380-415	Y/Δ start	17.3	107	190
SEV.100.100.75.Ex.4.51E	96047969	96338785	9.0	7.5	1455	3x220-240	Y/Δ start	29.9	185	190

Ex-classification: All above pumps are provided with an II 2 GD, EEx dc IIB T4, T3, IP68, T 135°C, T 200°C explosion protection classification according to EN standards 50 014-1997 / 50 018-2000 / 50 281-1-1.

Grundfos channel-impeller range

Electrical data, pump type and product numbers

SE1.50, DN 65 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SE1.50.65.22.2.50D	96047509	96177629	2.8	2.2	2895	3x380-415	D.O.L.	5.0	37	86
SE1.50.65.22.2.50E	96047513	96338698	2.8	2.2	2895	3x220-240	D.O.L.	8.7	64	86
SE1.50.65.30.2.50D	96047517	96177630	3.8	3.0	2910	3x380-415	D.O.L.	6.6	51	90
SE1.50.65.30.2.50E	96047521	96338699	3.8	3.0	2910	3x220-240	D.O.L.	11.4	88	90
SE1.50.65.40.2.51D	96047525	96177631	4.8	4.0	2925	3x380-415	Y/Δ start	8.6	71	122
SE1.50.65.40.2.51E	96047529	96338700	4.8	4.0	2925	3x220-240	Y/Δ start	14.9	123	122

SE1.50, DN 80 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SE1.50.80.22.2.50D	96047981	96177632	2.8	2.2	2895	3x380-415	D.O.L.	5.0	37	87
SE1.50.80.22.2.50E	96047985	96338701	2.8	2.2	2895	3x220-240	D.O.L.	8.7	64	87
SE1.50.80.30.2.50D	96047989	96177633	3.8	3.0	2910	3x380-415	D.O.L.	6.6	51	91
SE1.50.80.30.2.50E	96047993	96338702	3.8	3.0	2910	3x220-240	D.O.L.	11.4	88	91
SE1.50.80.40.2.51D	96047997	96177634	4.8	4.0	2925	3x380-415	Y/Δ start	8.6	71	123
SE1.50.80.40.2.51E	96048001	96338703	4.8	4.0	2925	3x220-240	Y/Δ start	14.9	123	123

SE1.80, DN 80 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SE1.80.80.15.4.50D	96047533	96177635	2.1	1.5	1435	3x380-415	D.O.L.	4.2	22	98
SE1.80.80.15.4.50E	96047541	96338704	2.1	1.5	1435	3x220-240	D.O.L.	7.3	38	98
SE1.80.80.22.4.50D	96047549	96177636	2.9	2.2	1445	3x380-415	D.O.L.	5.9	32	100
SE1.80.80.22.4.50E	96047557	96338705	2.9	2.2	1445	3x220-240	D.O.L.	10.2	55	100
SE1.80.80.30.4.50D	96047565	96177637	3.7	3.0	1455	3x380-415	D.O.L.	7.8	43	143
SE1.80.80.30.4.50E	96047581	96338706	3.7	3.0	1455	3x220-240	D.O.L.	13.4	74	143
SE1.80.80.40.4.51D	96047597	96177638	4.9	4.0	1460	3x380-415	Y/Δ start	10.0	67	152
SE1.80.80.40.4.51E	96047605	96338707	4.9	4.0	1460	3x220-240	Y/Δ start	17.2	116	152
SE1.80.80.55.4.51D	96047613	96177639	6.5	5.5	1455	3x380-415	Y/Δ start	13.4	87	157
SE1.80.80.55.4.51E	96047621	96338708	6.5	5.5	1455	3x220-240	Y/Δ start	23.2	150	157
SE1.80.80.75.4.51D	96047627	96177640	9.0	7.5	1455	3x380-415	Y/Δ start	17.3	107	205
SE1.80.80.75.4.51E	96047635	96338709	9.0	7.5	1455	3x220-240	Y/Δ start	29.9	185	205

SE1.80, DN 100 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SE1.80.100.15.4.50D	96048005	96177641	2.1	1.5	1435	3x380-415	D.O.L.	4.2	22	99
SE1.80.100.15.4.50E	96048013	96338710	2.1	1.5	1435	3x220-240	D.O.L.	7.3	38	99
SE1.80.100.22.4.50D	96048021	96177642	2.9	2.2	1445	3x380-415	D.O.L.	5.9	32	101
SE1.80.100.22.4.50E	96048029	96338711	2.9	2.2	1445	3x220-240	D.O.L.	10.2	55	101
SE1.80.100.30.4.50D	96048037	96177643	3.7	3.0	1455	3x380-415	D.O.L.	7.8	43	143
SE1.80.100.30.4.50E	96048061	96338712	3.7	3.0	1455	3x220-240	D.O.L.	13.4	74	143
SE1.80.100.40.4.51D	96048069	96177644	4.9	4.0	1460	3x380-415	Y/Δ start	10.0	67	153
SE1.80.100.40.4.51E	96048077	96338713	4.9	4.0	1460	3x220-240	Y/Δ start	17.2	116	153
SE1.80.100.55.4.51D	96048085	96177645	6.5	5.5	1455	3x380-415	Y/Δ start	13.4	87	158
SE1.80.100.55.4.51E	96048093	96338714	6.5	5.5	1455	3x220-240	Y/Δ start	23.2	150	158
SE1.80.100.75.4.51D	96048099	96177646	9.0	7.5	1455	3x380-415	Y/Δ start	17.3	107	204
SE1.80.100.75.4.51E	96048107	96338715	9.0	7.5	1455	3x220-240	Y/Δ start	29.9	185	204

Electrical data, pump type and product numbers

SE1.50, Ex-pumps DN 65 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{h1} [A]	I _{start} [A]	Weight [kg]
SE1.50.65.22.Ex.2.50D	96047511	96177673	2.8	2.2	2895	3x380-415	D.O.L.	5.0	37	86
SE1.50.65.22.Ex.2.50E	96047515	96338722	2.8	2.2	2895	3x220-240	D.O.L.	8.7	64	86
SE1.50.65.30.Ex.2.50D	96047519	96177674	3.8	3.0	2910	3x380-415	D.O.L.	6.6	51	90
SE1.50.65.30.Ex.2.50E	96047523	96338723	3.8	3.0	2910	3x220-240	D.O.L.	11.4	88	90
SE1.50.65.40.Ex.2.51D	96047527	96177675	4.8	4.0	2925	3x380-415	Y/Δ start	8.6	71	122
SE1.50.65.40.Ex.2.51E	96047531	96338724	4.8	4.0	2925	3x220-240	Y/Δ start	14.9	123	122

SE1.50, Ex-pumps DN 80 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{h1} [A]	I _{start} [A]	Weight [kg]
SE1.50.80.22.Ex.2.50D	96047983	96177676	2.8	2.2	2895	3x380-415	D.O.L.	5.0	37	87
SE1.50.80.22.Ex.2.50E	96047987	96338725	2.8	2.2	2895	3x220-240	D.O.L.	8.7	64	87
SE1.50.80.30.Ex.2.50D	96047991	96177677	3.8	3.0	2910	3x380-415	D.O.L.	6.6	51	91
SE1.50.80.30.Ex.2.50E	96047995	96338726	3.8	3.0	2910	3x220-240	D.O.L.	11.4	88	91
SE1.50.80.40.Ex.2.51D	96047999	96177678	4.8	4.0	2925	3x380-415	Y/Δ start	8.6	71	123
SE1.50.80.40.Ex.2.51E	96048003	96338727	4.8	4.0	2925	3x220-240	Y/Δ start	14.9	123	123

SE1.80, Ex-pumps DN 80 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{h1} [A]	I _{start} [A]	Weight [kg]
SE1.80.80.15.Ex.4.50D	96047537	96177679	2.1	1.5	1435	3x380-415	D.O.L.	4.2	22	98
SE1.80.80.15.Ex.4.50E	96047545	96338728	2.1	1.5	1435	3x220-240	D.O.L.	7.3	38	98
SE1.80.80.22.Ex.4.50D	96047553	96177680	2.9	2.2	1445	3x380-415	D.O.L.	5.9	32	100
SE1.80.80.22.Ex.4.50E	96047561	96338729	2.9	2.2	1445	3x220-240	D.O.L.	10.2	55	100
SE1.80.80.30.Ex.4.50D	96047569	96177681	3.7	3.0	1455	3x380-415	D.O.L.	7.8	43	143
SE1.80.80.30.Ex.4.50E	96047593	96338730	3.7	3.0	1455	3x220-240	D.O.L.	13.4	74	143
SE1.80.80.40.Ex.4.51D	96047601	96177682	4.9	4.0	1460	3x380-415	Y/Δ start	10.0	67	152
SE1.80.80.40.Ex.4.51E	96047609	96338731	4.9	4.0	1460	3x220-240	Y/Δ start	17.2	116	152
SE1.80.80.55.Ex.4.51D	96047617	96177683	6.5	5.5	1455	3x380-415	Y/Δ start	13.4	87	157
SE1.80.80.55.Ex.4.51E	96047624	96338732	6.5	5.5	1455	3x220-240	Y/Δ start	23.2	150	157
SE1.80.80.75.Ex.4.51D	96047631	96177684	9.0	7.5	1455	3x380-415	Y/Δ start	17.3	107	205
SE1.80.80.75.Ex.4.51E	96047638	96338733	9.0	7.5	1455	3x220-240	Y/Δ start	29.9	185	205

SE1.80, Ex-pumps DN 100 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{h1} [A]	I _{start} [A]	Weight [kg]
SE1.80.100.15.Ex.4.50D	96048009	96177685	2.1	1.5	1435	3x380-415	D.O.L.	4.2	22	99
SE1.80.100.15.Ex.4.50E	96048017	96338734	2.1	1.5	1435	3x220-240	D.O.L.	7.3	38	99
SE1.80.100.22.Ex.4.50D	96048025	96177686	2.9	2.2	1445	3x380-415	D.O.L.	5.9	32	101
SE1.80.100.22.Ex.4.50E	96048033	96338735	2.9	2.2	1445	3x220-240	D.O.L.	10.2	55	101
SE1.80.100.30.Ex.4.50D	96048041	96177687	3.7	3.0	1455	3x380-415	D.O.L.	7.8	43	143
SE1.80.100.30.Ex.4.50E	96048057	96338736	3.7	3.0	1455	3x220-240	D.O.L.	13.4	74	143
SE1.80.100.40.Ex.4.51D	96048073	96177688	4.9	4.0	1460	3x380-415	Y/Δ start	10.0	67	153
SE1.80.100.40.Ex.4.51E	96048081	96338737	4.9	4.0	1460	3x220-240	Y/Δ start	17.2	116	153
SE1.80.100.55.Ex.4.51D	96048089	96177689	6.5	5.5	1455	3x380-415	Y/Δ start	13.4	87	158
SE1.80.100.55.Ex.4.51E	96048096	96338738	6.5	5.5	1455	3x220-240	Y/Δ start	23.2	150	158
SE1.80.100.75.Ex.4.51D	96048103	96177690	9.0	7.5	1455	3x380-415	Y/Δ start	17.3	107	204
SE1.80.100.75.Ex.4.51E	96048110	96338739	9.0	7.5	1455	3x220-240	Y/Δ start	29.9	185	204

Ex-classification: All above pumps are provided with an II 2 GD, EEx dc IIB T4, T3, IP68, T 135°C, T 200°C explosion protection classification according to EN standards 50 014-1997 / 50 018-2000 / 50 281-1-1.

Grundfos channel-impeller range

Electrical data, pump type and product numbers

SE1.100, DN 100 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SE1.100.100.40.4.51D	96047641	96177647	4.9	4.0	1460	3x380-415	Y/Δ start	10.0	67	157
SE1.100.100.40.4.51E	96047649	96338716	4.9	4.0	1460	3x220-240	Y/Δ start	17.2	116	157
SE1.100.100.55.4.51D	96047657	96177648	6.5	5.5	1455	3x380-415	Y/Δ start	13.4	87	161
SE1.100.100.55.4.51E	96047665	96338717	6.5	5.5	1455	3x220-240	Y/Δ start	23.2	150	161
SE1.100.100.75.4.51D	96047671	96177649	9.0	7.5	1455	3x380-415	Y/Δ start	17.3	107	204
SE1.100.100.75.4.51E	96047679	96338718	9.0	7.5	1455	3x220-240	Y/Δ start	29.9	185	204

SE1.100, DN 150 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SE1.100.150.40.4.51D	96048113	96177650	4.9	4.0	1460	3x380-415	Y/Δ start	10.0	67	161
SE1.100.150.40.4.51E	96048121	96338719	4.9	4.0	1460	3x220-240	Y/Δ start	17.2	116	161
SE1.100.150.55.4.51D	96048129	96177651	6.5	5.5	1455	3x380-415	Y/Δ start	13.4	87	166
SE1.100.150.55.4.51E	96048137	96338720	6.5	5.5	1455	3x220-240	Y/Δ start	23.2	150	166
SE1.100.150.75.4.51D	96048143	96177652	9.0	7.5	1455	3x380-415	Y/Δ start	17.3	107	210
SE1.100.150.75.4.51E	96048151	96338721	9.0	7.5	1455	3x220-240	Y/Δ start	29.9	185	210

SE1.100, Ex-pumps DN 100 discharge

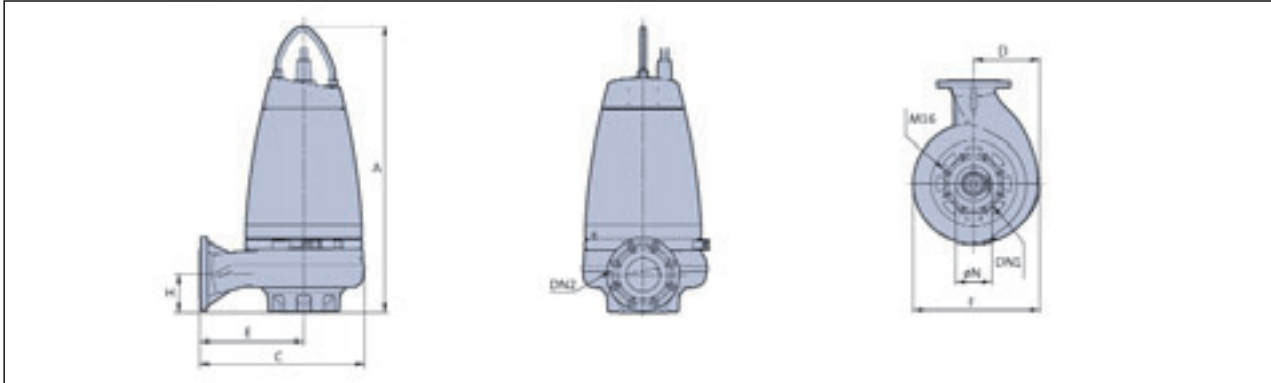
Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SE1.100.100.40.Ex.4.51D	96047645	96177691	4.9	4.0	1460	3x380-415	Y/Δ start	10.0	67	157
SE1.100.100.40.Ex.4.51E	96047653	96338740	4.9	4.0	1460	3x220-240	Y/Δ start	17.2	116	157
SE1.100.100.55.Ex.4.51D	96047661	96177692	6.5	5.5	1455	3x380-415	Y/Δ start	13.4	87	161
SE1.100.100.55.Ex.4.51E	96047668	96338741	6.5	5.5	1455	3x220-240	Y/Δ start	23.2	150	161
SE1.100.100.75.Ex.4.51D	96047675	96177693	9.0	7.5	1455	3x380-415	Y/Δ start	17.3	107	204
SE1.100.100.75.Ex.4.51E	96047682	96338742	9.0	7.5	1455	3x220-240	Y/Δ start	29.9	185	204

SE1.100, Ex-pumps DN 150 discharge

Pump type (without sensors)	Product No. (without sensors)	Product No. (with sensors)	P ₁ [kW]	P ₂ [kW]	n min ⁻¹	Voltage [V]	Starting method	I _{1/1} [A]	I _{start} [A]	Weight [kg]
SE1.100.150.40.Ex.4.51D	96048117	96177694	4.9	4.0	1460	3x380-415	Y/Δ start	10.0	67	161
SE1.100.150.40.Ex.4.51E	96048125	96338743	4.9	4.0	1460	3x220-240	Y/Δ start	17.2	116	161
SE1.100.150.55.Ex.4.51D	96048133	96177695	6.5	5.5	1455	3x380-415	Y/Δ start	13.4	87	166
SE1.100.150.55.Ex.4.51E	96048140	96338744	6.5	5.5	1455	3x220-240	Y/Δ start	23.2	150	166
SE1.100.150.75.Ex.4.51D	96048147	96177696	9.0	7.5	1455	3x380-415	Y/Δ start	17.3	107	210
SE1.100.150.75.Ex.4.51E	96048154	96338745	9.0	7.5	1455	3x220-240	Y/Δ start	29.9	185	210

Ex-classification: All the above pumps with an Ex designation are provided with II 2 GD, EEx dc IIB T4, T3, IP68, T 135°C, T 200°C explosion protection classification according to EN standards 50 014-1997/50 018-2000/50 281-1-1.

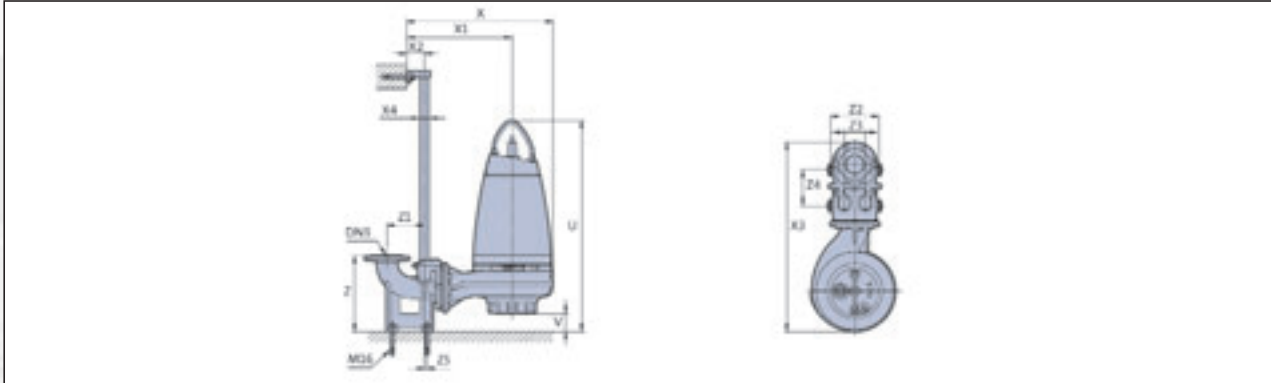
Free-standing pump



Pump type	Dimensions [mm]								
	A	C	D	DN 1	DN 2	E	F	H	øN
SEV.65.65.22.2.	771	396	171	80	65	246	321	102	65
SEV.65.65.30.2	771	396	171	80	65	246	321	102	65
SEV.65.65.40.2.	848	456	200	80	65	276	380	106	65
SEV.65.80.22.2.	771	397	171	80	80	247	321	103	65
SEV.65.80.30.2.	771	397	171	80	80	247	321	103	65
SEV.65.80.40.2	848	455	200	80	80	276	379	106	65
SEV.80.80.11.4.	798	409	171	80	80	241	339	109	80
SEV.80.80.13.4.	798	409	171	80	80	241	339	109	80
SEV.80.80.15.4.	798	409	171	80	80	241	339	109	80
SEV.80.80.22.4.	798	409	171	80	80	241	339	109	80
SEV.80.80.40.4.	878	460	200	80	80	267	393	109	80
SEV.80.80.40.2.	874	456	200	80	80	276	380	104	80
SEV.80.80.60.2.	874	456	200	80	80	276	380	104	80
SEV.80.80.75.2.	874	456	200	80	80	276	380	104	80
SEV.80.80.92.2.	922	489	217	80	80	293	413	123	80
SEV.80.80.110.2	922	489	217	80	80	293	413	123	80
SEV.100.100.30.4.	889	457	200	100	100	277	380	134	100
SEV.100.100.40.4.	889	457	200	100	100	277	380	134	100
SEV.100.100.55.4.	889	457	200	100	100	277	380	134	100
SEV.100.100.75.4.	948	490	217	100	100	294	413	145	100
SE1.50.65.22.2.	753	366	171	65	65	216	321	93	50
SE1.50.65.30.2.	753	366	171	65	65	216	321	93	50
SE1.50.65.40.2.	831	407	200	65	65	227	379	93	50
SE1.50.80.22.2.	760	366	171	65	80	216	321	100	50
SE1.50.80.30.2.	760	366	171	65	80	216	321	100	50
SE1.50.80.40.2.	838	407	200	65	80	227	379	100	50
SE1.80.80.15.4.	776	435	171	100	80	272	347	100	80
SE1.80.80.22.4.	776	435	171	100	80	272	347	100	80
SE1.80.80.30.4.	878	505	200	100	80	319	397	118	80
SE1.80.80.40.4.	878	505	200	100	80	319	397	118	80
SE1.80.80.55.4.	878	505	200	100	80	319	397	118	80
SE1.80.80.75.4.	924	530	217	100	80	328	423	118	80
SE1.80.100.15.4.	788	435	171	100	100	272	347	112	80
SE1.80.100.22.4.	788	435	171	100	100	272	347	112	80
SE1.80.100.30.4.	878	505	200	100	100	319	397	118	80
SE1.80.100.40.4.	878	505	200	100	100	319	397	118	80
SE1.80.100.55.4.	878	505	200	100	100	319	397	118	80
SE1.80.100.75.4.	924	530	217	100	100	328	423	118	80
SE1.100.100.40.4.	885	541	200	150	100	320	438	115	100
SE1.100.100.55.4.	885	541	200	150	100	320	438	115	100
SE1.100.100.75.4.	932	541	217	150	100	312	462	115	100
SE1.100.150.40.4.	900	541	200	150	150	320	440	143	100
SE1.100.150.55.4.	900	541	200	150	150	320	440	143	100
SE1.100.150.75.4.	948	541	217	150	150	306	472	143	100

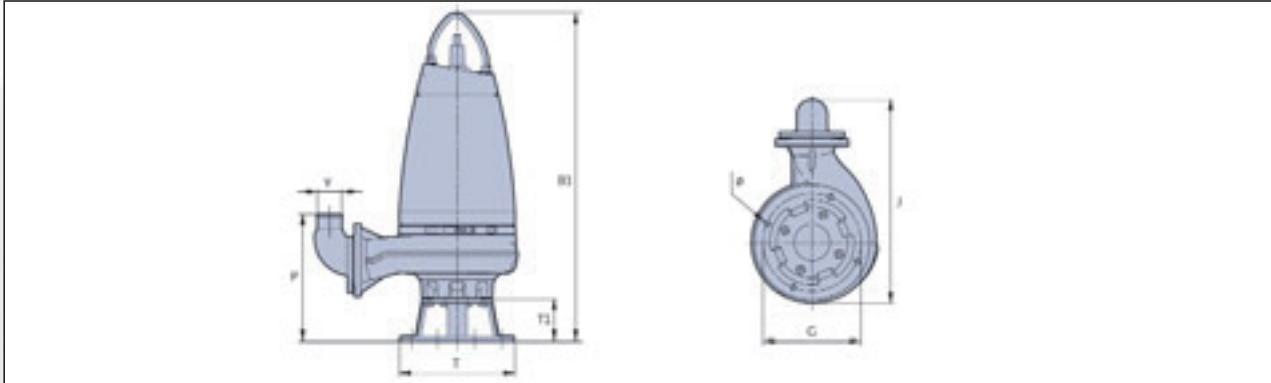
Dimensions

Submerged installation on auto coupling



Pump type	Dimensions [mm]													
	DN 3	U	V	X	X1	X2	X3	X4	Z	Z1	Z2	Z3	Z4	Z5
SEV.65.65.22.2.	65	834	63	543	394	81	730	1½"	266	175	210	95	140	1
SEV.65.65.30.2	65	834	63	543	394	81	730	1½"	266	175	210	95	140	1
SEV.65.65.40.2.	65	908	60	604	424	81	790	1½"	266	175	210	95	140	1
SEV.65.80.22.2.	80	868	97	557	408	81	750	1½"	345	171	220	95	160	13
SEV.65.80.30.2.	80	868	97	557	408	81	750	1½"	345	171	220	95	160	13
SEV.65.80.40.2	80	942	94	616	437	81	808	1½"	345	171	220	95	160	13
SEV.80.80.11.4.	80	889	91	569	402	81	762	1½"	345	171	220	95	160	13
SEV.80.80.13.4.	80	889	91	569	402	81	762	1½"	345	171	220	95	160	13
SEV.80.80.15.4.	80	889	91	569	402	81	762	1½"	345	171	220	95	160	13
SEV.80.80.22.4.	80	889	91	569	402	81	762	1½"	345	171	220	95	160	13
SEV.80.80.40.4.	80	969	91	620	428	81	813	1½"	345	171	220	95	160	13
SEV.80.80.40.2.	80	970	96	617	437	81	809	1½"	345	171	220	95	160	13
SEV.80.80.60.2.	80	970	96	617	437	81	809	1½"	345	171	220	95	160	13
SEV.80.80.75.2.	80	970	96	617	437	81	809	1½"	345	171	220	95	160	13
SEV.80.80.92.2.	80	999	77	650	454	81	842	1½"	345	171	220	95	160	13
SEV.80.80.110.2	80	999	77	650	454	81	842	1½"	345	171	220	95	160	13
SEV.100.100.30.4.	100	996	106	674	494	110	900	2"	413	220	260	110	270	0
SEV.100.100.40.4.	100	996	106	674	494	110	900	2"	413	220	260	110	270	0
SEV.100.100.55.4.	100	996	106	674	494	110	900	2"	413	220	260	110	270	0
SEV.100.100.75.4.	100	1043	95	707	511	110	933	2"	413	220	260	110	270	0
SE1.50.65.22.2.	65	826	99	513	363	81	700	1½"	266	175	210	95	140	1
SE1.50.65.30.2.	65	826	99	513	363	81	700	1½"	266	175	210	95	140	1
SE1.50.65.40.2.	65	904	97	554	375	81	741	1½"	266	175	210	95	140	1
SE1.50.80.22.2.	80	860	133	526	376	81	719	1½"	345	171	220	95	160	13
SE1.50.80.30.2.	80	860	133	526	376	81	719	1½"	345	171	220	95	160	13
SE1.50.80.40.2.	80	938	132	567	387	81	760	1½"	345	171	220	95	160	13
SE1.80.80.15.4.	80	876	108	595	432	81	788	1½"	345	171	220	95	160	13
SE1.80.80.22.4.	80	876	108	595	432	81	788	1½"	345	171	220	95	160	13
SE1.80.80.30.4.	80	960	82	666	480	81	858	1½"	345	171	220	95	160	13
SE1.80.80.40.4.	80	960	82	666	480	81	858	1½"	345	171	220	95	160	13
SE1.80.80.55.4.	80	960	82	666	480	81	858	1½"	345	171	220	95	160	13
SE1.80.80.75.4.	80	1006	82	690	489	81	883	1½"	345	171	220	95	160	13
SE1.80.100.15.4.	100	916	148	652	489	110	878	2"	413	220	260	110	270	0
SE1.80.100.22.4.	100	916	148	652	489	110	878	2"	413	220	260	110	270	0
SE1.80.100.30.4.	100	1000	122	722	536	110	948	2"	413	220	260	110	270	0
SE1.80.100.40.4.	100	1000	122	722	536	110	948	2"	413	220	260	110	270	0
SE1.80.100.55.4.	100	1000	122	722	536	110	948	2"	413	220	260	110	270	0
SE1.80.100.75.4.	100	1046	122	747	545	110	972	2"	413	220	260	110	270	0
SE1.100.100.40.4.	100	1009	125	758	537	110	983	2"	413	220	260	110	270	0
SE1.100.100.55.4.	100	1009	125	758	537	110	983	2"	413	220	260	110	270	0
SE1.100.100.75.4.	100	1057	125	758	529	110	983	2"	413	220	260	110	270	0
SE1.100.150.40.4.	150	1033	164	780	559	110	1093	2"	450	280	300	110	340	0
SE1.100.150.55.4.	150	1033	164	780	559	110	1093	2"	450	280	300	110	340	0
SE1.100.150.75.4.	150	1081	164	780	545	110	1093	2"	450	280	300	110	340	0

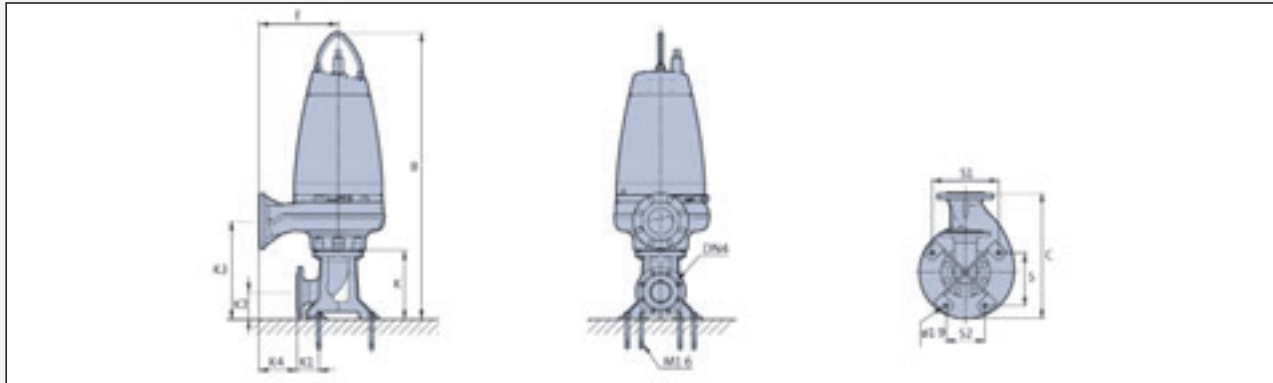
Submerged installation, free standing on ring stand



Pump type	Dimensions [mm]							
	B1	G	J	P	T	T1	Y	ø
SEV.65.65.22.2.	899	280	524	372	330	128	65	18
SEV.65.65.30.2	899	280	524	372	330	128	65	18
SEV.65.65.40.2.	976	280	568	376	330	128	65	18
SEV.65.80.22.2.	899	280	530	373	330	128	80	18
SEV.65.80.30.2.	899	280	530	373	330	128	80	18
SEV.65.80.40.2	976	280	573	376	330	128	80	18
SEV.80.80.11.4.	926	280	527	379	330	128	80	18
SEV.80.80.13.4.	926	280	527	379	330	128	80	18
SEV.80.80.15.4.	926	280	527	379	330	128	80	18
SEV.80.80.22.4.	926	280	527	379	330	128	80	18
SEV.80.80.40.4.	1006	280	578	379	330	128	80	18
SEV.80.80.40.2.	1002	280	574	374	330	128	80	18
SEV.80.80.60.2.	1002	280	574	374	330	128	80	18
SEV.80.80.75.2.	1002	280	574	374	330	128	80	18
SEV.80.80.92.2.	1050	280	607	393	330	128	80	18
SEV.80.80.110.2	1050	280	607	393	330	128	80	18
SEV.100.100.30.4.	1019	300	599	411	355	130	100	19
SEV.100.100.40.4.	1019	300	599	411	355	130	100	19
SEV.100.100.55.4.	1019	300	599	411	355	130	100	19
SEV.100.100.75.4.	1078	300	632	422	355	130	100	19
SE1.50.65.22.2.	857	270	491	339	325	130	65	18
SE1.50.65.30.2.	857	270	491	339	325	130	65	18
SE1.50.65.40.2.	937	270	519	341	325	130	65	18
SE1.50.80.22.2.	857	270	496	339	325	130	80	18
SE1.50.80.30.2.	857	270	496	339	325	130	80	18
SE1.50.80.40.2.	937	270	525	341	325	130	80	18
SE1.80.80.15.4.	898	300	567	364	355	130	80	19
SE1.80.80.22.4.	898	300	567	364	355	130	80	19
SE1.80.80.30.4.	1008	300	623	390	355	130	80	19
SE1.80.80.40.4.	1008	300	623	390	355	130	80	19
SE1.80.80.55.4.	1008	300	623	390	355	130	80	19
SE1.80.80.75.4.	1054	300	648	390	355	130	80	19
SE1.80.100.15.4.	898	300	591	369	355	130	100	19
SE1.80.100.22.4.	898	300	591	369	355	130	100	19
SE1.80.100.30.4.	1008	300	647	395	355	130	100	19
SE1.80.100.40.4.	1008	300	647	395	355	130	100	19
SE1.80.100.55.4.	1008	300	647	395	355	130	100	19
SE1.80.100.75.4.	1054	300	672	395	355	130	100	19
SE1.100.100.40.4.	1071	400	711	445	450	186	100	22
SE1.100.100.55.4.	1071	400	711	445	450	186	100	22
SE1.100.100.75.4.	1118	400	706	445	450	186	100	22
SE1.100.150.40.4.	1054	400	807	555	450	186	150	22
SE1.100.150.55.4.	1054	400	807	555	450	186	150	22
SE1.100.150.75.4.	1102	400	803	555	450	186	150	22

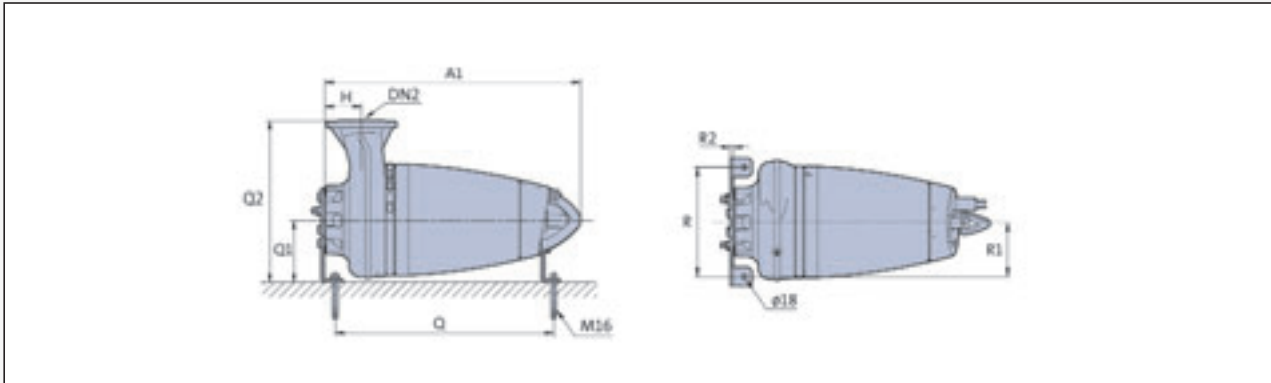
Dimensions

Vertical dry installation



Pump type	Dimensions [mm]											
	B1	C	DN 4	E	K	K1	K2	K3	K4	S	S1	S2
SEV.65.65.22.2.	899	171	80	246	276	76	111	378	82	213	269	156
SEV.65.65.30.2	899	171	80	246	276	76	111	378	82	213	269	156
SEV.65.65.40.2.	976	200	80	276	276	76	111	381	112	213	269	156
SEV.65.80.22.2.	899	171	80	247	276	76	111	379	83	213	269	156
SEV.65.80.30.2.	899	171	80	247	276	76	111	379	83	213	269	156
SEV.65.80.40.2	976	200	80	276	276	76	111	382	112	213	269	156
SEV.80.80.11.4.	926	171	80	241	276	76	111	385	77	213	269	156
SEV.80.80.13.4.	926	171	80	241	276	76	111	385	77	213	269	156
SEV.80.80.15.4.	926	171	80	241	276	76	111	385	77	213	269	156
SEV.80.80.22.4.	926	171	80	241	276	76	111	385	77	213	269	156
SEV.80.80.40.4.	1006	200	80	267	276	76	111	385	103	213	269	156
SEV.80.80.40.2.	1002	200	80	276	276	76	111	380	112	213	269	156
SEV.80.80.60.2.	1002	200	80	276	276	76	111	380	112	213	269	156
SEV.80.80.75.2.	1002	200	80	276	276	76	111	380	112	213	269	156
SEV.80.80.92.2.	1050	217	80	293	276	76	111	399	129	213	269	156
SEV.80.80.110.2	1050	217	80	293	276	76	111	399	129	213	269	156
SEV.100.100.30.4.	1019	200	100	277	341	106	136	474	73	255	311	198
SEV.100.100.40.4.	1019	200	100	277	341	106	136	474	73	255	311	198
SEV.100.100.55.4.	1019	200	100	277	341	106	136	474	73	255	311	198
SEV.100.100.75.4.	1078	217	100	294	341	106	136	485	89	255	311	198
SE1.50.65.22.2.	857	366	65	216	248	62	108	315	76	202	278	35
SE1.50.65.30.2.	857	366	65	216	248	62	108	315	76	202	278	35
SE1.50.65.40.2.	937	407	65	227	248	62	108	317	87	202	278	35
SE1.50.80.22.2.	857	366	65	216	248	62	108	315	76	202	278	35
SE1.50.80.30.2.	857	366	65	216	248	62	108	315	76	202	278	35
SE1.50.80.40.2.	937	407	65	227	248	62	108	317	87	202	278	35
SE1.80.80.15.4.	898	435	100	272	341	106	136	433	67	255	311	198
SE1.80.80.22.4.	898	435	100	272	341	106	136	433	67	255	311	198
SE1.80.80.30.4.	1008	505	100	319	341	106	136	458	115	255	311	198
SE1.80.80.40.4.	1008	505	100	319	341	106	136	458	115	255	311	198
SE1.80.80.55.4.	1008	505	100	319	341	106	136	458	115	255	311	198
SE1.80.80.75.4.	1054	530	100	328	341	106	136	459	124	255	311	198
SE1.80.100.15.4.	898	435	100	272	341	106	136	433	67	255	311	198
SE1.80.100.22.4.	898	435	100	272	341	106	136	433	67	255	311	198
SE1.80.100.30.4.	1008	505	100	319	341	106	136	459	115	255	311	198
SE1.80.100.40.4.	1008	505	100	319	341	106	136	459	115	255	311	198
SE1.80.100.55.4.	1008	505	100	319	341	106	136	459	115	255	311	198
SE1.80.100.75.4.	1054	530	100	328	341	106	136	459	124	255	311	198
SE1.100.100.40.4.	1071	541	150	320	443	135	159	558	37	339	396	283
SE1.100.100.55.4.	1071	541	150	320	443	135	159	558	37	339	396	283
SE1.100.100.75.4.	1118	541	150	312	443	135	159	558	29	339	396	283
SE1.100.150.40.4.	1054	541	150	320	443	135	159	553	37	339	396	283
SE1.100.150.55.4.	1054	541	150	320	443	135	159	553	37	339	396	283
SE1.100.150.75.4.	1102	541	150	306	443	135	159	553	23	339	396	283







Horizontal dry installation













Pump type	Dimensions [mm]								
	A1	DN 2	H	Q	Q1	Q2	R	R1	R2
SEV.65.65.22.2.	725	65	102	623	200	446	350	175	10
SEV.65.65.30.2	725	65	102	623	200	446	350	175	10
SEV.65.65.40.2.	790	65	106	700	200	476	350	175	10
SEV.65.80.22.2.	726	80	103	623	200	447	350	175	10
SEV.65.80.30.2.	726	80	103	623	200	447	350	175	10
SEV.65.80.40.2	791	80	106	700	200	476	350	175	10
SEV.80.80.11.4.	752	80	109	650	200	441	350	175	10
SEV.80.80.13.4.	752	80	109	650	200	441	350	175	10
SEV.80.80.15.4.	752	80	109	650	200	441	350	175	10
SEV.80.80.22.4.	752	80	109	650	200	441	350	175	10
SEV.80.80.40.4.	821	80	109	700	200	467	350	175	10
SEV.80.80.40.2.	816	80	104	726	200	476	350	175	10
SEV.80.80.60.2.	816	80	104	695	200	476	350	175	10
SEV.80.80.75.2.	816	80	104	695	200	476	350	175	10
SEV.80.80.92.2.	874	80	123	739	200	493	350	175	10
SEV.80.80.110.2	874	80	123	739	200	493	350	175	10
SEV.100.100.30.4.	832	100	134	711	200	477	350	175	10
SEV.100.100.40.4.	832	100	134	711	200	477	350	175	10
SEV.100.100.55.4.	832	100	134	711	200	477	350	175	10
SEV.100.100.75.4.	900	100	145	765	200	494	350	175	10
SE1.50.65.22.2.	682	65	93	579	200	416	350	175	10
SE1.50.65.30.2.	682	65	93	579	200	416	350	175	10
SE1.50.65.40.2.	749	65	93	659	200	427	350	175	10
SE1.50.80.22.2.	682	80	100	579	200	416	350	175	10
SE1.50.80.30.2.	682	80	100	579	200	416	350	175	10
SE1.50.80.40.2.	749	80	100	659	200	427	350	175	10
SE1.80.80.15.4	723	80	100	620	200	472	350	175	10
SE1.80.80.22.4.	723	80	100	620	200	472	350	175	10
SE1.80.80.30.4.	820	80	118	699	200	519	350	175	10
SE1.80.80.40.4.	820	80	118	699	200	519	350	175	10
SE1.80.80.55.4.	820	80	118	699	200	519	350	175	10
SE1.80.80.75.4.	876	80	118	741	200	528	350	175	10
SE1.80.100.15.4.	723	100	112	620	200	472	350	175	10
SE1.80.100.22.4.	723	100	112	620	200	472	350	175	10
SE1.80.100.30.4.	820	100	118	699	200	519	350	175	10
SE1.80.100.40.4.	820	100	118	699	200	519	350	175	10
SE1.80.100.55.4.	820	100	118	699	200	519	350	175	10
SE1.80.100.75.4.	876	100	118	741	200	528	350	175	10
SE1.100.100.40.4.	827	100	115	706	300	620	500	250	12
SE1.100.100.55.4.	827	100	115	706	300	620	500	250	12
SE1.100.100.75.4.	884	100	115	749	300	612	500	250	12
SE1.100.150.40.4.	811	150	143	690	300	620	500	250	12
SE1.100.150.55.4.	811	150	143	690	300	620	500	250	12
SE1.100.150.75.4.	868	150	143	733	300	606	500	250	12





Accessories

Overview of the accessories available for the Grundfos SEV and SE1 pumps

No.	Picture	Description	Dimensions	SE150.65	SE150.80	SE180.80	SE180.100	SE180.100	SE1100.150	SEV.65.65	SEV.65.80	SEV.80.80	SEV.100.100	Product number		
1		Complete auto-coupling system, including guide claw, baseplate and upper guide rail holder. Cast iron, epoxy coated. With bolts, nuts, gaskets and anchor bolts.	DN 65	•						•				96 09 09 92		
			DN 80		•	•						•	•		96 09 09 93	
			DN 80/DN 65	•							•				96 10 22 38	
			DN 100				•	•						•	96 09 09 94	
			DN 100/DN 80		•	•							•	•	96 10 22 40	
			DN 150							•						96 09 09 95
			DN 150/DN 100					•	•						•	96 10 22 41
2		Ring stand with flanged 90° elbow and hose connection. Cast iron, epoxy coated. With bolts, nuts, gaskets and anchor bolts.	DN 65/DN 65/2½"	•										96 10 22 53		
			DN 65/DN 80/3"		•										96 10 23 78	
			DN 80/DN 65/2½"								•				96 10 24 39	
			DN 80/DN 80/3"									•	•		96 10 22 54	
			DN 100/DN 80/3"			•									96 10 23 13	
			DN 100/DN 100/4"					•							•	96 10 22 55
			DN 150/DN 100/4", Galvanized steel						•							96 10 23 14
		Ring stand with flanged 90° elbow and outside thread connection. Cast iron, epoxy coated. With bolts, nuts, gaskets and anchor bolts.	DN 150/DN 150/6", Galvanized steel							•					96 10 22 56	
			DN 65/DN 65/R 2½"	•											96 10 23 79	
			DN 65/DN 80/R 3		•										96 10 23 80	
			DN 80/DN 65/R 2½"								•				96 10 24 40	
			DN 80/DN 80/R 3									•	•		96 10 23 81	
			DN 100/DN 80/R 3			•									96 10 23 82	
			DN 100/DN 100/R 4					•							•	96 10 23 83
DN 150/DN 100/R 4, Galvanized steel							•						96 10 23 84			
DN 150/DN 150/R 6, Galvanized steel								•					96 10 23 85			
3		Base stand for vertical dry installation, including 90° elbow. Galvanized steel. With bolts, gaskets and anchor bolts.	DN 65	•	•									96 10 22 57		
			DN 80								•	•	•	96 10 22 58		
			DN 100/DN 80									•	•	•	96 56 71 74	
			DN 100				•	•						•	96 10 22 59	
			DN 150/DN 100			•	•								96 56 71 75	
			DN 150						•	•					96 10 22 60	
			DN 200/DN 150						•	•					96 56 71 76	
4		Brackets for horizontal dry installation. With bolts, gaskets and anchor bolts. Galvanized steel.	DN 65 for 2.2 – 3 kW, 2 pole	•	•									96 10 22 61		
			DN 65 for 4 kW, 2 pole	•	•										96 10 22 62	
			DN 80 for 2.2 – 3 kW, 2 pole									•	•		96 10 19 12	
			DN 80 for 1.1 – 2.2 kW, 4 pole										•		96 10 19 12	
			DN 80 for 4 – 7.5 kW, 2 pole									•	•	•	96 10 22 00	
			DN 80 for 4 kW, 4 pole											•	96 10 22 00	
			DN 80 for 9.2 – 11 kW, 2 pole											•	96 10 23 86	
			DN 100 for 1.5 – 2.2 kW, 4 pole				•	•								96 10 22 01
			DN 100 for 3 – 5.5 kW, 4 pole					•	•						•	96 10 19 17
			DN 100 for 7.5 kW, 4 pole					•	•						•	96 10 22 02
			DN 150 for 4 – 5.5 kW, 4 pole							•	•					96 10 22 63
DN 150 for 7.5 kW, 4 pole							•	•					96 10 22 50			
5		Lifting chain with shackle, with certificates. Galvanized steel.	3 m	•	•	•	•	•	•	•	•	•	•	96 49 74 66		
			6 m	•	•	•	•	•	•	•	•	•	•	96 49 74 65		
			10 m	•	•	•	•	•	•	•	•	•	•	96 49 74 64		

No.	Picture	Description	Dimensions	SEV505	SEV508	SEV510	SEV515	SEV520	SEV525	SEV530	SEV535	Product number			
				SEV100.050	SEV100.080	SEV100.100	SEV100.150	SEV100.200	SEV100.250	SEV100.300					
6		Ball-type non-return valve with flanges. Cast iron, epoxy coated.	DN 65	•								96 00 20 08			
			DN 80		•	•					•	•	96 00 20 09		
			DN 100				•	•					•	96 00 20 85	
			DN 150						•					96 00 34 23	
			DN 200											96 00 38 39	
7		Non-return flap valve, cast iron with flange, with free shaft end for external lever and weight. Cast iron, epoxy coated.	DN 65	•								96 11 65 10			
			DN 80		•	•					•	•	96 11 65 11		
			DN 100				•	•					•	96 11 65 12	
			DN 150						•					96 11 65 14	
			DN 200											96 11 65 15	
8		External lever and weight kit. Steel, epoxy coated.	DN 65 and DN 80	•	•	•				•	•	•	96 11 65 33		
			DN 100				•	•					•	96 11 65 34	
			DN 150						•					96 11 65 35	
			DN 200											96 11 65 36	
9		Isolating valve with flanges. Cast iron, epoxy coated.	DN 65	•	•						•		96 00 20 10		
			DN 80		•	•					•	•	•	96 00 20 11	
			DN 100				•	•	•					•	96 00 20 12
			DN 150						•	•					96 00 34 27
			DN 200												96 00 38 40
10		Bolts, nuts and gasket. Galvanized steel.	4 of each M16 x 65 mm, DN 65	•	•						•		96 00 19 98		
			8 of each M16 x 65 mm, DN 80		•	•					•	•	•	96 00 19 99	
			8 of each M16 x 65 mm, DN 100				•	•	•					•	96 00 38 23
			8 of each M20 x 75 mm, DN 150						•	•					96 00 36 05
			8 of each M20 x 80 mm, DN 200												96 00 38 37
11		Gasket.	DN 65	•	•						•		96 00 20 00		
			DN 80		•	•					•	•	•	96 00 20 01	
			DN 100				•	•	•					•	96 00 33 31
			DN 150						•	•					96 00 36 06
			DN 200												96 00 38 38
12		90° elbow, galvanized.	R/Rp 2½	•	•					•			96 00 19 81		
			R/Rp 3		•	•					•	•	•	96 00 65 63	
			R/Rp 4			•	•	•						•	96 00 65 64
13		90° elbow, galvanized.	Rp/Rp 2½	•	•					•			96 00 19 91		
			Rp/Rp 3		•	•					•	•	•	96 00 19 92	
			Rp/Rp 4			•	•	•						•	96 00 65 65
14		Hexagon nipple, galvanized.	R/R 2½	•	•					•			96 00 19 94		
			R/R 3		•	•					•	•	•	96 00 19 95	
			R/R 4			•	•	•						•	96 00 65 66
15		Threaded flange, galvanized.	Rp 2½	•	•					•			96 00 19 96		
			Rp 3		•	•					•	•	•	96 00 19 97	
			Rp 4			•	•	•						•	96 00 33 36

Accessories







No.	Picture	Description	Dimensions	SEI50.65	SEI50.80	SEI80.80	SEI100.100	SEI100.150	SEI165.65	SEI165.80	SEI180.80	SEI100.100	Product number	
16		Flanged bend, 90° PN 10. Cast iron, painted.	DN 65	•	•				•				96 00 36 16	
			DN 80		•	•			•	•	•		96 00 36 17	
			DN 100			•	•	•					•	96 00 36 18
			DN 150					•	•					96 00 37 15
17		Coupling half, Storz. Aluminium.	Rp 2 - 2" hose	•									96 00 19 82	
			Rp 2½ - 3" hose	•					•				96 00 20 86	
			Rp 3 - 3" hose		•	•					•	•		96 00 19 84
			Rp 4 - 4" hose				•	•					•	96 00 52 52
			Rp 6 - 6" hose						•					96 00 52 53
18		Hose, incl. Storz couplings, 10 m.	3"		•	•				•	•		96 00 19 89	
			4"				•	•				•	96 00 52 55	
			6"					•					96 00 52 56	
19		Hose, incl. Storz couplings, 20 m.	3"		•	•				•	•		96 00 52 59	
			4"				•	•				•	96 00 52 60	
			6"						•				96 00 52 61	
20		Cable protection.	5 m x 1"	•	•	•	•	•	•	•	•	96 00 20 84		

Type key for LC and LCD controllers

		Example:	LC	107	230	1	12	30/150	DOL
Controller type	LC = One-pump controller LCD = Two-pump controller								
Type of level sensors	107 = Control of 1 or 2 pumps based on signals from bell shaped level pickups (pneumatic) Max. 11 kW shaft power DOL 108 = Control of 1 or 2 pumps based on signals from float switches or electrodes Max. 11 kW shaft power DOL 110 = Control of 1 or 2 pumps based on signals from electrodes Max. 11 kW shaft power DOL								
Voltage [V]									
Number of phases	1 = 1 phase 3 = 3 phase								
Maximum operating current per pump [A]									
Operating / starting capacitor [µF]	[] = without capacitor 30 = operating capacitor 30/150 = 30 µF operating and 150 µF starting capacitor								
Starting method	DOL = Direct on-line starting SD = star-delta starting (only LC 108 and LCD 108)								











Note: Controllers with capacitor are for 12 A operating current.

Accessories

No.	Picture	Description	Dimensions								Product number		
				SEL50.65	SEL50.80	SEL80.100	SEL100.100	SEL100.150	SEL65.65	SEL65.80		SEL80.80	SEL100.100
21		LC 107 controller, pneumatic version with bell-shaped level pickups and tube for 1 pump. 3 x 400 V, direct on-line starting.	1 - 2.9 A								*	96 00 24 67	
			1.6 - 5.0 A	*	*	*	*	*	*	*	*	*	96 00 24 68
			3.7 - 12.0 A	*	*	*	*	*	*	*	*	*	96 00 24 69
			12.0 - 23.0 A	*	*	*	*	*	*	*	*	*	96 00 24 70
22		LCD 107 controller for 2 pumps. 3 x 400 V, direct on-line starting.	1 - 2.9 A							*	96 00 24 74		
			1.6 - 5.0 A	*	*	*	*	*	*	*	*	96 00 24 75	
			3.7 - 12.0 A	*	*	*	*	*	*	*	*	*	96 00 24 76
			12.0 - 23.0 A	*	*	*	*	*	*	*	*	*	96 00 24 77
23		LC 108 controller for float switches for 1 pump. 3 x 230 V, direct on-line starting.	1 - 2.9 A									*96 43 39 75	
			1.6 - 5.0 A							*	*96 43 39 79		
			3.7 - 12.0 A	*	*	*	*	*	*	*	*96 43 39 83		
			12.0 - 23.0 A	*	*	*	*	*	*	*	*96 43 39 87		
	LC 108 controller for float switches for 1 pump. 3 x 400 V, direct on-line starting.	1 - 2.9 A							*	*96 43 39 91			
		1.6 - 5.0 A	*	*	*	*	*	*	*	*96 43 39 95			
		3.7 - 12.0 A	*	*	*	*	*	*	*	*96 43 39 99			
		12.0 - 23.0 A	*	*	*	*	*	*	*	*96 43 40 03			
	LC 108 controller for float switches for 1 pump. 3 x 400 V, star-delta starting.	6.4 - 20.0 A	*	*	*	*	*	*	*	*96 43 79 28			
		20.8 - 30.0 A							*	*96 43 79 50			
		20.8 - 59.0 A								*96 43 79 70			
24		LCD 108 controller for float switches for 2 pumps. 3 x 230 V, direct on-line starting.	1 - 2.9 A									*96 43 40 23	
			1.6 - 5.0 A							*	*96 43 40 27		
			3.7 - 12.0 A	*	*	*	*	*	*	*	*96 43 40 31		
			12.0 - 23.0 A	*	*	*	*	*	*	*	*96 43 40 35		
	LCD 108 controller for float switches for 2 pumps. 3 x 400 V, direct on-line starting.	1 - 2.9 A							*	*96 43 40 39			
		1.6 - 5.0 A	*	*	*	*	*	*	*	*96 43 40 43			
		3.7 - 12.0 A	*	*	*	*	*	*	*	*96 43 40 47			
		12.0 - 23.0 A	*	*	*	*	*	*	*	*96 43 40 51			
	LC 108 controller for float switches for 2 pumps. 3 x 400 V, star-delta starting.	6.4 - 20.0 A	*	*	*	*	*	*	*	*96 43 80 32			
		20.8 - 30.0 A							*	*96 43 80 52			
		20.8 - 59.0 A								*96 43 80 72			
25		LC 110 controller for electrodes for 1 pump. 3 x 400 V, direct on-line starting.	1 - 2.9 A							*	96 48 40 85		
			1.6 - 5.0 A	*	*	*	*	*	*	*	96 48 40 86		
			3.7 - 12.0 A	*	*	*	*	*	*	*	96 48 40 87		
			12.0 - 23.0 A	*	*	*	*	*	*	*	96 48 40 88		
26		LCD 110 controller for electrodes for 2 pumps. 3 x 400 V, direct on-line starting.	1 - 2.9 A							*	96 48 40 93		
			1.6 - 5.0 A	*	*	*	*	*	*	*	96 48 40 94		
			3.7 - 12.0 A	*	*	*	*	*	*	*	96 48 40 95		
			12.0 - 23.0 A	*	*	*	*	*	*	*	96 48 40 96		

Product numbers marked with* are English versions. Other languages are available on request.

Accessories

No.	Picture	Description	Dimensions											Product number		
				SEI50.65	SEI50.80	SEI80.100	SEI100.100	SEI100.150	SEI65.65	SEI65.80	SEI80.80	SEI100.100				
27		Float switch with 10 m cable.	For LC 108 and LCD 108 controllers.	•	•	•	•	•	•	•	•	•	•	•	96 00 33 32	
		Float switch with 20 m cable.		•	•	•	•	•	•	•	•	•	•	•	•	96 00 36 95
		Float switch for use in potentially explosive environments, with 10 m cable.	For LC 108 and LCD 108 controllers connected to LC-Ex4.	•	•	•	•	•	•	•	•	•	•	•	•	96 00 34 21
		Float switch for use in potentially explosive environments, with 20 m cable.		•	•	•	•	•	•	•	•	•	•	•	•	•
28		LC-Ex4 intrinsically safe barrier, for use in potentially explosive environments, for float switch applications. The LC-Ex4 can be mounted in ambient temperatures ranging from -25°C to +50°C. Safety class: II (1) G [EEx ia] II °C.		•	•	•	•	•	•	•	•	•	•	•	96 44 03 00	
29		Bracket for 2 float switches.		•	•	•	•	•	•	•	•	•	•	•	96 00 33 38	
30		1 pump without alarm (2 float switches)		•	•	•	•	•	•	•	•	•	•	•	62 50 00 13	
		1 pump with alarm (3 float switches)		•	•	•	•	•	•	•	•	•	•	•	•	62 50 00 14
		2 pumps without alarm (3 float switches)		•	•	•	•	•	•	•	•	•	•	•	•	62 50 00 14
		2 pumps with alarm (4 float switches)		•	•	•	•	•	•	•	•	•	•	•	•	62 50 00 15
31		1 pump without alarm (2 float switches)		•	•	•	•	•	•	•	•	•	•	•	62 50 00 16	
		1 pump with alarm (3 float switches)		•	•	•	•	•	•	•	•	•	•	•	•	62 50 00 17
		2 pumps without alarm (3 float switches)		•	•	•	•	•	•	•	•	•	•	•	•	62 50 00 17
		2 pumps with alarm (4 float switches)		•	•	•	•	•	•	•	•	•	•	•	•	62 50 00 18
32		1 electrode with 10 m cable		•	•	•	•	•	•	•	•	•	•	•	96 07 62 89	
		3 electrodes with 10 m cable		•	•	•	•	•	•	•	•	•	•	•	•	96 07 61 89
		4 electrodes with 10 m cable		•	•	•	•	•	•	•	•	•	•	•	•	91 71 34 37
33		Bracket for electrodes.		•	•	•	•	•	•	•	•	•	•	•	91 71 31 96	
34		Back-up battery.	9.6 V	•	•	•	•	•	•	•	•	•	•	•	62 50 00 19	
35		Signal lamp, outdoor mounting.	1x230 V	•	•	•	•	•	•	•	•	•	•	•	62 50 00 20	
36		Acoustic signal (horn), indoor mounting.	1x230 V	•	•	•	•	•	•	•	•	•	•	•	62 50 00 22	
		Acoustic signal (horn), outdoor mounting.	1x230 V	•	•	•	•	•	•	•	•	•	•	•	•	62 50 00 21

The Grundfos wastewater range

Heavy-duty submersible sewage pumps 5 – 29 kW

Brochure covers the Grundfos range of submersible channel-impeller pumps from 5 kW up to 21 kW and Super-Vortex pumps up to 29 kW. All designed for handling unscreened raw sewage. Available in 50 Hz and 60 Hz versions.



Heavy-duty submersible sewage pumps 15 – 155 kW

Brochure covers the Grundfos range of sewage pumps from 15 kW up to 155 kW for handling of raw sewage in heavy-duty applications. Available in 50 Hz and 60 Hz versions.



Super-heavy-duty submersible sewage and raw water pumps

Brochure covers the Grundfos range of super-heavy-duty channel pumps, axial flow pumps, and propeller pumps from 7.5 kW up to 520 kW.



Portable dewatering pumps

Brochure covers the Grundfos range of portable dewatering pumps (DW) from 0.8 kW to 20 kW for pumping raw water with abrasives.



The KP/AP stainless steel range

Brochure covers a wide range of high quality stainless steel pumps for a variety of domestic and commercial applications.



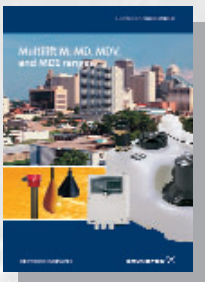
Stainless steel heavy-duty submersible pumps

Brochure covers the Grundfos range of heavy-duty stainless steel pumps (SEN) for aggressive and corrosive environments.



Lifting stations

Brochure covers Grundfos lifting stations for individual as well as multi-user applications.



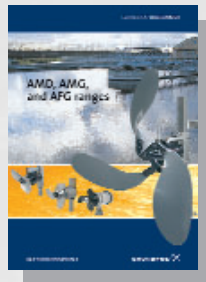
LC/LCD level controls

Brochure covers the Grundfos range of controls for the wastewater pumping systems.



Mixers and flowmakers

Brochure covers the new range of mixers and flowmakers for optimal control of liquids and solids throughout the wastewater treatment process.



Submersible sewage grinder pumps

Brochure covers the Grundfos range of sewage grinder pumps (SEG) for pumping of wastewater with toilet discharge.



Heavy-duty submersible wastewater pumps 0.6 – 2.6 kW

Brochure covers the Grundfos range of submersible channel-impeller and Super-Vortex-impeller pumps from 0.6 to 2.6 kW. Designed for handling drainage, effluent and sewage from private dwellings.



Prefabricated pumping stations

Brochure covers the Grundfos range of prefabricated pumping stations for collecting and removing drainwater, surface water, domestic and industrial wastewater and sewage.



Submersible recirculation pumps

Brochure covers the Grundfos range of SRP submersible recirculation pumps for wastewater treatment plants and flood control.



Business with an attitude

Knowledge The sharing of knowledge, experience and expertise across our global network will always lead our business forward.

Innovation Combining the best technology with fresh ways of thinking, we will continue to develop even better pumps, systems, services and standards.

Solution With a complete product range, capable of providing every conceivable water solution, we are the most complete player on the market.