Prefabricated pumping stations

Grundfos pumping stations let you choose between many different installation variants

Auto-coupling, on bottom

Mounted in the bottom of the pit, this auto-coupling system is designed for easy installation and service access in pumping stations with heavy-duty effluent or sewage pumps.

All components, e.g. piping, guide rails, and valves are made from 2" stainless steel.

Auto-coupling, wall mounted

This auto-coupling variant is also designed for easy installation and service access in pumping stations with heavy-duty effluent or sewage pumps. The added benefit is that the auto-coupling system is fixed on a gliding system mounted on the wall.

All components, e.g. piping, guide rails, and valves are made from 2" stainless steel.

Free-standing installation

Grundfos pumping stations can also be used for free-standing installation of drainage or effluent pumps.

Pipe couplings and valves are made from PP or 2" stainless steel, while all piping is made from PE.

Two-pump installation

Some pumping station applications allow you to have two pumps installed. You can choose between any of the three installation modes: installation on bottom or wall-mounted auto-coupling or free-standing installation.

Piping, guide rails, and valve materials according to installation variant.

Full range of controls

Grundfos offers a full range of control units – everything from level switches to advanced built-in communication.

- LC/LCD 107
- LC/LCD 108
- LC/LCD 110

- Modular Controls

Please contact your local Grundfos sales company

Tough and reliable

Flexibility and quality in every detail

The Grundfos range of prefabricated pumping stations is designed to provide maximum installation freedom and flexibility with a minimum of additional work. Available in four different standard diameters, the pump pits can be supplied in a number of different standard depths.

One-piece moulded pit, made from polyethylene, ready for installation. The light grey colour enables easy visual inspection.

Corrosion-free pipework and valves – 2" stainless steel or PE/PP.

When choosing an auto-coupling system, the pipes, valves and guide-rail systems are delivered in 2" stainless steel.

Inlets are positioned individually on-site by means of cup wheel cutter.

The nut in the sump bottom is used to hold the auto-coupling in the right position without fixation to the sump bottom. All components can be reached or taken out from the top without going down into the pumping station.

Free-standing installation
A non-return flap valve has been built onto the quick-coupling for easy access.

– with many **unique features**

All units are supplied with a PE top cover with a special closing mechanism. The triangular shape of the bolt-head is created to prevent unauthorised access. Other cover types and classes up to heavy traffic are avaible on request.

The 2" piping system of Grundfos pumping stations allowsfor electrical earthing.

Prepared for level controls with a choice of level switches. The hanging system can easily be lifted up from the pumping station and placed in the correct position whenever you need to take it up for servicing.

The increased sump volume prevents push up.

Design of pit sump limits sludge and odour problems.

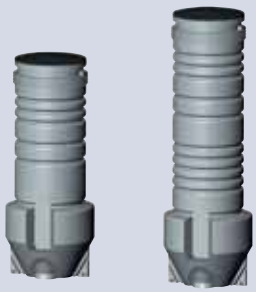
Two-pump installation
The pumping stations used for two-pump installations have a wider, reinforced bottom to keep the stiffness in the bottom. Again with a design that limits sludge and odour problems.

Four standard diameters

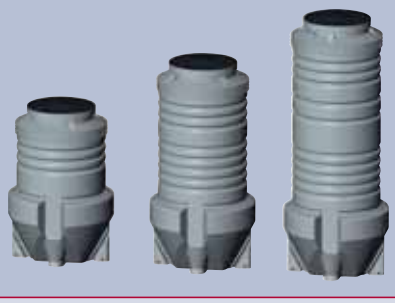
As a standard, the Grundfos pumping stations are available in four diameters, suitable for different pumps and applications

Ø 400 pit
- Diameter of main section 400 mm.
- Depth 2000 mm.
- Prepared for installation of a Grundfos KP drainage pump.

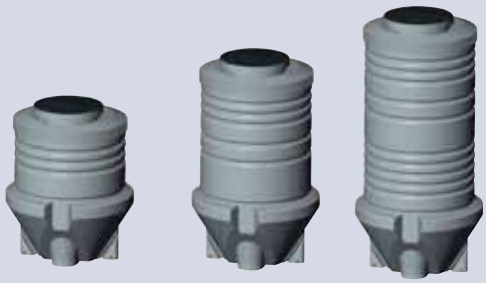
Ø 600 pit
- Diameter of main section 600 mm.
- Depth 2000 mm or 2500 mm.
- Prepared for installation of Grundfos AP, DP, EF, or SEG pump ranges.



Ø 800 pit
- Diameter of main section 800 mm.
- Depth 1500 mm, 2000 mm, or 2500 mm.
- Prepared for installation of Grundfos AP, DP, EF, or SEG pump ranges.



Ø 1000 single-pump pit
- Diameter of main section 1000 mm.
- Depth 1500 mm, 2000 mm, or 2500 mm.
- Prepared for installation of a single Grundfos AP, DP, EF, SE1, SEV, or SEG pump.



Ø 1000 double-pump pit
- Diameter of main section 1000 mm.
- Depth 2000 mm or 2500 mm.
- Prepared for double-pump installation of Grundfos AP, DP, EF, SE1, SEV, or SEG pumps.

Type key and technical data

Type key

Example:	PUST	06	.20	.S	.A	.SS	.SEG

Grundfos standard pumping station = PUST

Diameter
04 = Ø 400 mm
06 = Ø 600 mm
08 = Ø 800 mm
10 = Ø 1000 mm

Length
15 = 1500 mm
20 = 2000 mm
25 = 2500 mm

Single (S) or Double pump (D)

Hanging systems
A = Auto coupling, bottom
W = Auto coupling, wall hanging
S = Free standing

Pipe material
PE = Polyethylene
SS = Stainless steel AISI 316

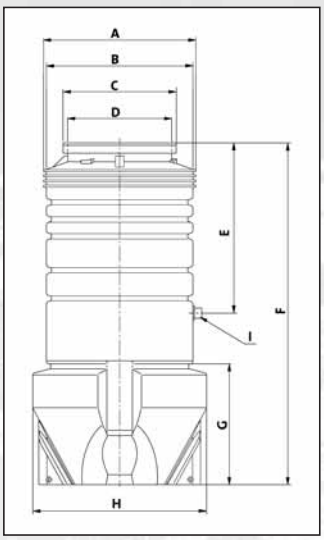
Prepared for pump of type
KP = KP range
AP35 = AP12.40 and AP35
AP50 = AP 12.50 and AP50
APB = AP35B and AP50B
DPEF = DP (0.6-1.5 kW) and EF
DPSE = DP (2.6 kW), SE1.50/SEV65 (0.9-1.5 kW)
SEG = SEG range

Material specifications

Description	Free-standing installation	2" auto-coupling installation
Pit	PEHD	PEHD
Cover	PEHD	PEHD
Closing device for cover	Stainless steel AISI 316/DIN W.-Nr. 1.4401	Stainless steel AISI 316/DIN W.-Nr. 1.4401
Piping	PE	Stainless steel AISI 316/DIN W.-Nr. 1.4401
Nonreturn valve	NBR rubber and SS AISI 304/DIN W.-Nr. 1.4301	Stainless steel AISI 316/DIN W.-Nr. 1.4401
Closing valve	PP	Stainless steel AISI 316/DIN W.-Nr. 1.4401
Pipe coupling	PP - quick-coupling	Flange - stainless steel AISI 316/DIN W.-Nr. 1.4401
Auto-coupling, bottom		Cast iron EN-GJL-250/EN-JL 1040 or SS AISI 316/DIN W.-Nr. 1.4401
Auto-coupling, wall hanging		Stainless steel AISI 316/DIN W.-Nr. 1.4401
Guide rails		Stainless steel AISI 316/DIN W.-Nr. 1.4401
Guide rail holders		Stainless steel AISI 316/DIN W.-Nr. 1.4401
Holder for level controls	Stainless steel AISI 316/DIN W.-Nr. 1.4401	Stainless steel AISI 316/DIN W.-Nr. 1.4401
Screws	Stainless steel AISI 316/Din W.-Nr. 1.4401	Stainless steel AISI 316/DIN W.-Nr. 1.4401

Dimensions

Description	Ø400	Ø600	Ø800	Ø1000S	Ø1000D
A	400	694	894	1094	1094
B	400	640	840	1040	1040
C	469	664	664	664	1040
D	400	590	590	590	980
E	1000	1000	1000*	1000*	1000
F	2000	**	***	***	**
G	390	690	690	690	690
H	528	820	1020	1220	1220
I*****	40 mm	R2/50 mm	R2/50 mm	R2/50 mm****	R2/50 mm****



Tolerances for PE material is +/-3%
* For 1500 mm length it is not fixed. (750-1000 mm.)
** Will be 2000 or 2500
*** Will be 1500, 2000 or 2500
**** For the pumps DP(2.6 kW), SE and SEV it is R2½
***** Outlet is R2 for stainless steel pipes and defined in mm. for PE pipes

Selection guide

Selection of pumping stations

The Grundfos range of prefabricated pumping stations is designed for removing and collecting drain water, surface water, domestic and industrial wastewater.

The correct dimension of the pumping stations depends on the volume of wastewater and the capacity of the pump. If the wastewater in the pit remains unagitated for longer periods of time, sedimentation may occur. To prevent this, it is advisable to dimension the pit and the pumping system in such a way that the pump starts at least twice every 24 hours.

Prefabricated pumping stations

Type	Product no.	Diameter mm	Length mm	Prepared for number of pumps	Connection type	Pipe material	Prepared for pump type	Pipe diameter	Sump volume m^3 with one pump	Weight (kg) without pumps
PUST04.20.S.S.PE.KP	96 23 52 88	400	2000	1	S	PE	KP	DN 40	0.10	45
PUST06.20.S.A.SS.SEG	96 23 52 89	600	2000	1	A	SS	SEG40	DN 50	0.28	95
PUST06.25.S.A.SS.SEG	96 23 52 90	600	2500	1	A	SS	SEG40	DN 50	0.28	131
PUST06.20.S.W.SS.SEG	96 23 52 91	600	2000	1	W	SS	SEG40	DN 50	0.28	95
PUST06.25.S.W.SS.SEG	96 23 52 92	600	2500	1	W	SS	SEG40	DN 50	0.28	131
PUST06.20.S.A.SS.APB	96 23 52 93	600	2000	1	A	SS	AP35B/AP50B	DN 50	0.28	95
PUST06.25.S.A.SS.APB	96 23 52 94	600	2500	1	A	SS	AP35B/AP50B	DN 50	0.28	131
PUST06.20.S.S.PE.AP50	96 23 52 95	600	2000	1	S	PE	AP12.50/AP50	DN 50	0.28	58
PUST06.25.S.S.PE.AP50	96 23 52 96	600	2500	1	S	PE	AP12.50/AP50	DN 50	0.28	71
PUST06.20.S.S.PE.AP35	96 23 52 97	600	2000	1	S	PE	AP12.40/AP35	DN 50	0.28	58
PUST06.25.S.S.PE.AP35	96 23 52 98	600	2500	1	S	PE	AP12.40/AP35	DN 50	0.28	71
PUST06.20.S.S.PE.DPEF	96 23 52 99	600	2000	1	S	PE	DP10.50/EF30	DN 50	0.28	62
PUST06.25.S.S.PE.DPEF	96 23 53 00	600	2500	1	S	PE	DP10.50/EF30	DN 50	0.28	76
PUST08.15.S.A.SS.SEG	96 23 52 70	800	1500	1	A	SS	SEG40	DN 50	0.42	103
PUST08.20.S.A.SS.SEG	96 23 52 71	800	2000	1	A	SS	SEG40	DN 50	0.42	123
PUST08.25.S.A.SS.SEG	96 23 52 72	800	2500	1	A	SS	SEG40	DN 50	0.42	166
PUST08.15.S.W.SS.SEG	96 23 52 73	800	1500	1	W	SS	SEG40	DN 50	0.42	103
PUST08.20.S.W.SS.SEG	96 23 52 74	800	2000	1	W	SS	SEG40	DN 50	0.42	123
PUST08.25.S.W.SS.SEG	96 23 52 75	800	2500	1	W	SS	SEG40	DN 50	0.42	166
PUST08.15.S.A.SS.APB	96 23 52 76	800	1500	1	A	SS	AP35B/AP50B	DN 50	0.42	103
PUST08.20.S.A.SS.APB	96 23 52 77	800	2000	1	A	SS	AP35B/AP50B	DN 50	0.42	123
PUST08.25.S.A.SS.APB	96 23 52 78	800	2500	1	A	SS	AP35B/AP50B	DN 50	0.42	166
PUST08.15.S.S.PE.AP50	96 23 52 79	800	1500	1	S	PE	AP12.50/AP50	DN 50	0.42	69
PUST08.20.S.S.PE.AP50	96 23 52 80	800	2000	1	S	PE	AP12.50/AP50	DN 50	0.42	86
PUST08.25.S.S.PE.AP50	96 23 52 81	800	2500	1	S	PE	AP12.50/AP50	DN 50	0.42	106
PUST08.15.S.S.PE.AP35	96 23 52 82	800	1500	1	S	PE	AP12.40/AP35	DN 50	0.42	69
PUST08.20.S.S.PE.AP35	96 23 52 83	800	2000	1	S	PE	AP12.40/AP35	DN 50	0.42	86
PUST08.25.S.S.PE.AP35	96 23 52 84	800	2500	1	S	PE	AP12.40/AP35	DN 50	0.42	106
PUST08.15.S.S.PE.DPEF	96 23 52 85	800	1500	1	S	PE	DP10.50/EF30	DN 50	0.42	73
PUST08.20.S.S.PE.DPEF	96 23 52 86	800	2000	1	S	PE	DP10.50/EF30	DN 50	0.42	90
PUST08.25.S.S.PE.DPEF	96 23 52 87	800	2500	1	S	PE	DP10.50/EF30	DN 50	0.42	112
PUST10.15.S.A.SS.SEG	96 23 53 01	1000	1500	1	A	SS	SEG40	DN 50	0.52	129
PUST10.20.S.A.SS.SEG	96 23 53 02	1000	2000	1	A	SS	SEG40	DN 50	0.52	156
PUST10.25.S.A.SS.SEG	96 23 53 03	1000	2500	1	A	SS	SEG40	DN 50	0.52	206
PUST10.15.S.W.SS.SEG	96 23 53 04	1000	1500	1	W	SS	SEG40	DN 50	0.52	129
PUST10.20.S.W.SS.SEG	96 23 53 05	1000	2000	1	W	SS	SEG40	DN 50	0.52	156
PUST10.25.S.W.SS.SEG	96 23 53 06	1000	2500	1	W	SS	SEG40	DN 50	0.52	206
PUST10.15.S.A.SS.APB	96 23 53 07	1000	1500	1	A	SS	AP35B/AP50B	DN 50	0.52	129
PUST10.20.S.A.SS.APB	96 23 53 08	1000	2000	1	A	SS	AP35B/AP50B	DN 50	0.52	156
PUST10.25.S.A.SS.APB	96 23 53 09	1000	2500	1	A	SS	AP35B/AP50B	DN 50	0.52	206
PUST10.15.S.S.PE.AP50	96 23 53 10	1000	1500	1	S	PE	AP12.50/AP50	DN 50	0.52	95
PUST10.20.S.S.PE.AP50	96 23 53 11	1000	2000	1	S	PE	AP12.50/AP50	DN 50	0.52	119
PUST10.25.S.S.PE.AP50	96 23 53 12	1000	2500	1	S	PE	AP12.50/AP50	DN 50	0.52	146
PUST10.15.S.S.PE.AP35	96 23 53 13	1000	1500	1	S	PE	AP12.40/AP35	DN 50	0.52	95

Prefabricated pumping stations

Type	Product no.	Diameter mm	Length mm	Prepared for number of pumps	Connection type	Pipe material	Prepared for pump type	Pipe diameter	Sump volume m³ with one pump	Weight (kg) without pumps
PUST10.20.S.S.PE.AP35	96 23 53 14	1000	2000	1	S	PE	AP12.40/AP35	DN 50	0.52	119
PUST10.25.S.S.PE.AP35	96 23 53 15	1000	2500	1	S	PE	AP12.40/AP35	DN 50	0.52	146
PUST10.15.S.S.PE.DPEF	96 23 53 16	1000	1500	1	S	PE	DP10.50/EF30	DN 50	0.52	99
PUST10.20.S.S.PE.DPEF	96 23 53 17	1000	2000	1	S	PE	DP10.50/EF30	DN 50	0.52	123
PUST10.25.S.S.PE.DPEF	96 23 53 18	1000	2500	1	S	PE	DP10.50/EF30	DN 50	0.52	151
PUST10.15.S.A.SS.DPSE	96 23 53 19	1000	1500	1	A	SS	DP10.65/SE/SEV	DN 65	0.52	165
PUST10.20.S.A.SS.DPSE	96 23 53 20	1000	2000	1	A	SS	DP10.65/SE/SEV	DN 65	0.52	200
PUST10.25.S.A.SS.DPSE	96 23 53 21	1000	2500	1	A	SS	DP10.65/SE/SEV	DN 65	0.52	264
PUST10.20.D.A.SS.SEG	96 23 53 22	1000	2000	2	A	SS	SEG40	DN 50	0.55	199
PUST10.25.D.A.SS.SEG	96 23 53 23	1000	2500	2	A	SS	SEG40	DN 50	0.55	234
PUST10.20.D.W.SS.SEG	96 23 53 24	1000	2000	2	W	SS	SEG40	DN 50	0.55	199
PUST10.25.D.W.SS.SEG	96 23 53 25	1000	2500	2	W	SS	SEG40	DN 50	0.55	234
PUST10.20.D.A.SS.APB	96 23 53 26	1000	2000	2	A	SS	AP35B/AP50B	DN 50	0.55	199
PUST10.25.D.A.SS.APB	96 23 53 27	1000	2500	2	A	SS	AP35B/AP50B	DN 50	0.55	234
PUST10.20.D.S.PE.AP50	96 23 53 28	1000	2000	2	S	PE	AP12.50/AP50	DN 50	0.55	135
PUST10.25.D.S.PE.AP50	96 23 53 29	1000	2500	2	S	PE	AP12.50/AP50	DN 50	0.55	163
PUST10.20.D.S.PE.AP35	96 23 53 30	1000	2000	2	S	PE	AP12.40/AP35	DN 50	0.55	135
PUST10.25.D.S.PE.AP35	96 23 53 31	1000	2500	2	S	PE	AP12.40/AP35	DN 50	0.55	163
PUST10.20.D.S.PE.DPEF	96 23 53 32	1000	2000	2	S	PE	DP10.50/EF30	DN 50	0.55	144
PUST10.25.D.S.PE.DPEF	96 23 53 33	1000	2500	2	S	PE	DP10.50/EF30	DN 50	0.55	172
PUST10.20.D.A.SS.DPSE	96 23 53 34	1000	2000	2	A	SS	DP10.65/SE/SEV	DN 65	0.55	277
PUST10.25.D.A.SS.DPSE	96 23 53 35	1000	2500	2	A	SS	DP10.65/SE/SEV	DN 65	0.55	312

Choice of switches

Level system without controls

Level switches with hanging system.

Electrodes

Float switches

96 23 52 28	Level system for LC108	With 2 float switches
96 23 52 29	Level system for LC/LCD108	With 3 float switches
96 23 52 30	Level system for LC/LCD110	With 4 electrodes
96 23 52 31	Level system for LCD108	With 4 float switches
96 23 52 32	Level system for LCD110	With 5 electrodes

Choice of controls

LC/LCD controls

Please refer to the *LC/LCD level controllers* brochure.

For further information, contact your local Grundfos sales company.

LC/LCD
107
108
110

Modular Controls

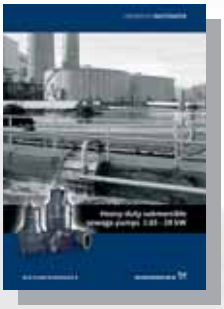
On request, please contact your local Grundfos sales company.

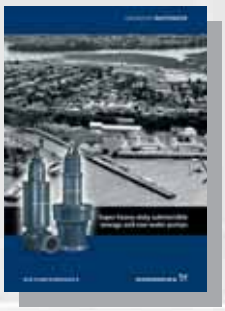
Accessories

Type	Pipe diameter	Description	Product number
Sleeves	40 mm	Sleeve	96 23 07 63
	50 mm	Sleeve	96 23 07 53
	63 mm	Sleeve	96 57 15 23
	75 mm	Sleeve	96 57 15 27
	90 mm	Sleeve	96 57 15 28
	110 mm	Sleeve	96 23 07 54
	160 mm	Sleeve	96 23 07 55
Cup wheel cutter		Centerdrill	91 71 20 26
	40 mm	Cup wheel cutter, 51 mm	95 57 15 32
	50 mm	Cup wheel cutter, 60 mm	96 57 15 33
	63 mm	Cup wheel cutter, 75 mm	96 57 15 34
	75 mm	Cup wheel cutter, 86 mm	96 57 15 35
	90 mm	Cup wheel cutter, 102 mm	96 57 15 36
	110 mm	Cup wheel cutter, 121 mm	96 57 15 37
	160 mm	Cup wheel cutter, 172 mm	96 57 15 38
Insulation jacket	-	For frost protection, the insulation jacket is placed directly over the pipes and valves	96 57 15 29
Ventilation package	-	Ventilation package (50 mm)	96 57 15 31
Level bells	-	Please refer to the brochure *LC/LCD level controllers*. For futher information, contact your local Grundfos sales company	-

The Grundfos **wastewater range**

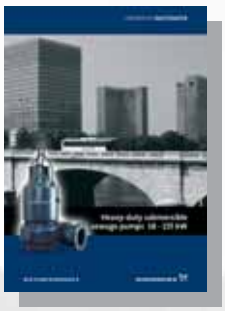
Heavy-duty submersible sewage pumps 1.65 - 29 kW
Brochure covers the Grundfos range of submersible channel-impeller pumps from 1.65 kW up to 21 kW and Super-Vortex pumps up to 29 kW. All designed for handling unscreened raw sewage.





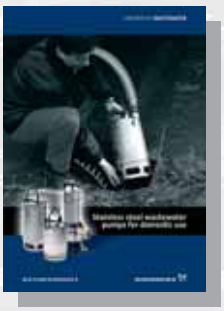
Super-heavy-duty submersible sewage and raw water pumps
Brochure covers the Grundfos range of super-heavy-duty channel pumps, axial flow pumps, and propeller pumps from 7.5 kW up to 520 kW.

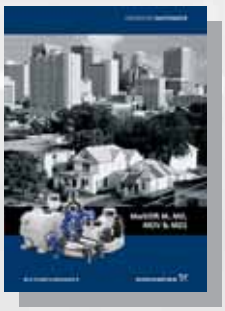
Heavy-duty submersible sewage pumps 15 - 155 kW
Brochure covers the Grundfos range of sewage pumps from 15 kW up to 155 kW for handling of raw sewage in heavy-duty applications.



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.

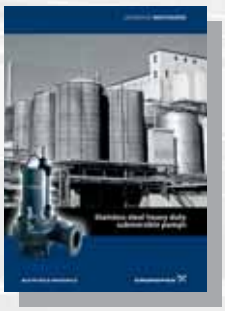
The KP/AP stainless steel range
Brochure covers a wide range of high quality stainless steel pumps for a variety of domestic and commercial applications.





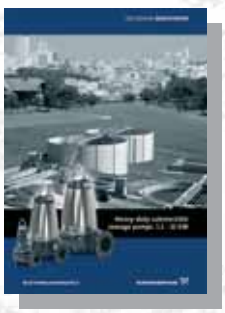
Multilift M, MD, MDV and MD1
Brochure covers Grundfos lifting stations for multi-user applications.

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



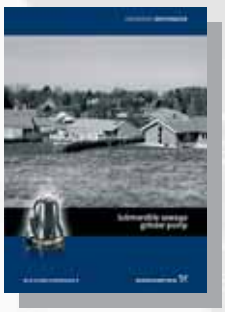
LC/LCD level controls
Brochure covers the Grundfos range of controls for the wastewater pumping systems.

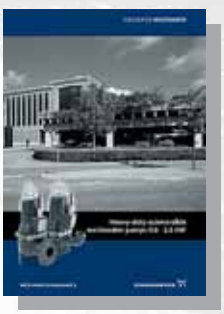
Mixers and flowmakers
Brochure covers the new range of mixers and flowmakers for optimal control of liquids and solids throughout the wastewater treatment process.



Heavy-duty submersible sewage pumps 1.1 - 11 kW
This brochure describes the innovative SEV/SE1 pump lines. Fitted with Super-Vortex or single-channel impellers, these pumps can meet approximately 80% of all wastewater pumping needs.

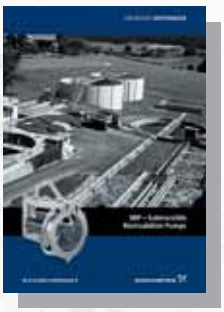
Submersible sewage grinder pumps
Brochure covers the Grundfos range of sewage grinder pumps (SEG) for pumping of wastewater with toilet discharge.





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.

Grundfos submersible recirculation pumps
Brochure covers the Grundfos range of submersible recirculation pumps, SRP, designed for pumping sewage and sludge in wastewater treatment plants.



BE > THINK > INNOVATE >

Being responsible is our foundation
Thinking ahead makes it possible
Innovation is the essence

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.

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