

# When resilience matters Get Grindex

**Grindex pumps are the most efficient, reliable and durable submersible pumps on the market.**

Grindex's world-leading electric submersible technology requires significantly less power, reducing costs and emissions over the lifecycle of your project. The pumps are lightweight, robust and boast run-dry SMART motor protection.

**Make the call and invest in high performance subs for your site: 0800 482 747**



## Key benefits:

### Require smaller

generators to start.

Save 30% on start-up power and subsequent running requirements.

### Easy to maintain

You'll need just five tools to dismantle your Grindex, making routine servicing quicker and simpler.

### Lightweight and heavy-duty

Cast aluminium, and stainless-steel outer casings make Grindex pumps lighter (by almost half) and easier to handle.

### Plug and play is standard.

Star/Delta starters and phase shifters are standard on most Grindex pumps.

### Runs 24/7 without worry.

The Grindex has an in-built air valve to keep the motor cool when fluids aren't flowing. Combine that with Grindex's run-dry SMART motor protection and running dry is one less thing to worry about.

## Grindex Handy-sized Pumps Performance Summary

Model	Grindex 2"	Grindex 3"	Grindex 4"
Max Flow (L/s)	6–11	16	34–39
Max Head (m)	16–18	22	21–28
Max Solids (mm)	5–7.5	9	10
Drive	Electric 1 & 3ph	1 & 3ph	Electric 3ph
Power (kW)	0.9–1.4	1.5–2.2	4.4–6.6
Weight (kg)	14.5–21.5	29	50
Diameter (mm)	185–200	240	286

See overleaf for detailed pump specifications.

# Micro

## Submersible Dewatering Pump



### Pump specifications

Type	Micro
50Hz	1-ph
<b>Discharge connection</b>	2"
<b>Rated Power P} (W)</b>	420
<b>Max. power consumption P} (W)</b>	590
<b>Shaft speed (r.p.m.)</b>	2760
<b>Rated current at 115V</b>	5.1 A
<b>Rated current at 230V</b>	2.7 A
<b>Solids passage (mm)</b>	11 x 5
<b>Height (mm)</b>	440
<b>Diameter (mm)</b>	185
<b>Weight (kg)</b>	12

Other voltages on request

### Features

#### Pump types

Single phase

#### Classification

Electrical submersible drainage pump. Protection class: IP68

#### Electrical motor

1-phase: Squirrel cage induction motor with run capacitor.  
 Insulation Class: F (IEC85)

#### Motor protection

1-phase: Temperature guard with a thermal contact in stator  
 opening temperature 135°C (275°F)

#### Cable

1-phase: 3G1mm<sup>2</sup>, 10m (33ft) / 16AWG/3, 50ft

#### Limitations

Max. submersion depth: 5m (16.4ft)

Max. liquid temperature: 35°C (95°F)

Allowed pH range: 5 - 8

Maximum liquid density: 1100kg/m<sup>3</sup> (68lbs/ft<sup>3</sup>)

#### Shaft Seals

Double mechanical seals running in an oil compartment

Material lower seal: silicon carbide - silicon carbide

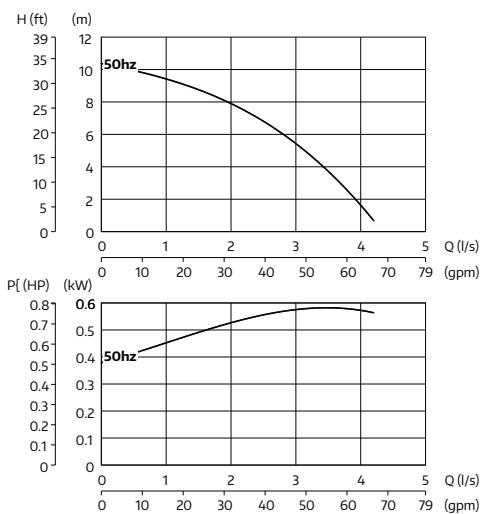
Material upper seal: carbon - aluminum oxide

#### Bearings

Ball bearings with C3 clearance

#### Discharge connection

2" hose, BSP or NPSM



ISO 9906/A

#### Materials

Pump top: Aluminium

Outer casing: Aluminium

Stator housing: Aluminium

Motor shaft: Stainless steel

Impeller: Polyurethane

Diffuser: Polyurethane

Screws and nuts: Stainless steel

#### Accessories

Float switch

Low suction collar

Pump raft

# Mini

## Submersible Dewatering Pump



### Pump specifications

Type	Mini
50Hz	Mini
<b>Discharge connection</b>	2"
<b>Rated Power P<sub>1</sub> (W)</b>	900
<b>Max. power consumption P<sub>2</sub> (W)</b>	1200
<b>Shaft speed (r.p.m.)</b>	2800
<b>Rated current at 115V</b>	11 A
<b>Rated current at 230V</b>	5.2 A
<b>Solids passage (mm)</b>	11 x 5
<b>Height (mm)</b>	440
<b>Diameter (mm)</b>	185
<b>Weight (kg)</b>	14.5

Other voltages on request

### Features

#### Pump types

Single phase

#### Classification

Electrical submersible drainage pump. Protection Class: IP68

#### Electrical motor

1-phase: Squirrel cage induction motor

50 Hz: separate start and run capacitor

60 Hz: combined start and run capacitor

Insulation Class: F (IEC 85)

#### Motor protection

1-phase: Temperature guard with a thermal contact in stator opening temperature 135°C (275°F)

#### Cable

1-phase: 3G1mm<sup>2</sup>, 10m (33ft) / 16AWG/3, 50ft

#### Limitations

Max. submersion depth: 10m (33ft)

Max. liquid temperature: 40°C (104°F)

Allowed pH range: 5 - 8

Maximum liquid density: 1100kg/m<sup>3</sup> (68lbs/ft<sup>3</sup>)

#### Shaft Seals

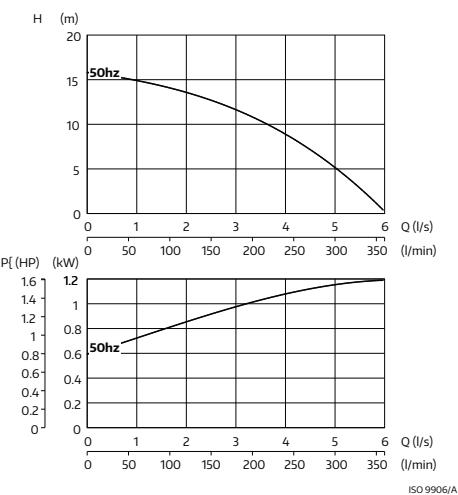
Double mechanical shaft seals running in an oil compartment

Material lower seal: silicon carbide - silicon carbide

Material upper seal: carbon - aluminum oxide

#### Bearings

Ball bearings with C3 clearance



#### Discharge connection

2" hose, BSP or NPSM

#### Materials

Pump top: Aluminium

Outer casing: Aluminium

Stator housing: Aluminium

Motor shaft: Stainless steel

Impeller: Polyurethane

Diffuser: Polyurethane

Screws and nuts: Stainless steel

#### Accessories

Float switch; Low suction collar; Pump raft

# Minex

## Submersible Dewatering Pump



### Pump specifications

Type	Minex		
50Hz	Lite 1-ph	1-ph	3-ph
<b>Discharge connection</b>	2"	2"	2"
<b>Rated Power P} (kW)</b>	0.85	1.4	1.2
<b>Max. power consumption P{ (kW)</b>	1.1	1.8	1.6
<b>Shaft speed (r.p.m.)</b>	2755	2870	2740
<b>Rated current at 115V</b>	11 A	-	-
<b>Rated current at 230V</b>	5.1 A	7.8 A	4.7 A
<b>Rated current at 400V</b>	-	-	2.6 A
<b>Solids passage (mm)</b>	7.5	7.5	7.5
<b>Height (mm)</b>	616	646	616
<b>Diameter (mm)</b>	200	200	200
<b>Weight (kg)</b>	21.5	25	21.5

Other voltages on request

### Features

#### Classification

Electrical submersible drainage pump. Protection Class: IP68

#### Electrical motor

1-phase: Squirrel cage induction motor with start and run capacitor

3-phase: Squirrel cage induction motor

Insulation Class: F (IEC85)

#### Motor protection

1-phase: Temperature guard with a thermal contact in stator opening temperature 125°C (257°F), air valve.

3-phase: Phase sequence control, phase failure guard, temperature guard with thermal contacts in the stator opening temperature 125°C (257°F) (= SMART system), air valve

#### Cable – SubCab

1-phase: 3G1.5mm<sup>2</sup>, 20m (66ft)/ 14AWG/3, 53ft

3-phase: 4G1.5mm<sup>2</sup>, 20m (66ft)/ 14AWG/4, 53ft

#### Limitations

Max. submersion depth: 20m (66ft)

Max. liquid temperature: 40°C (104°F)

Allowed pH range: 5 - 8

Maximum liquid density: 1100kg/m<sup>3</sup> (68lbs/ft<sup>3</sup>)

#### Shaft Seals

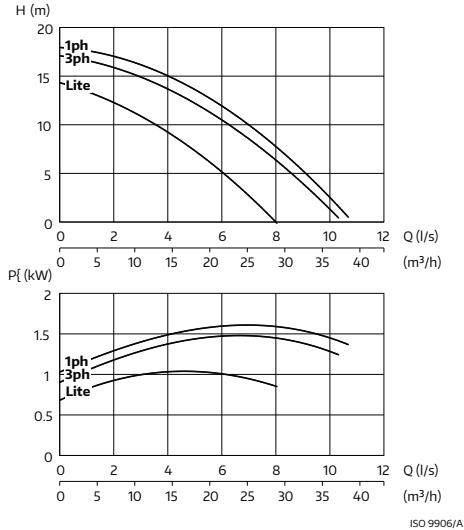
Cartridge seal: pre-assembled double mechanical seal running in an oil compartment

Material lower seal: silicon carbide - silicon carbide

Material upper seal: tungsten carbide - aluminium oxide

#### Bearings

Ball bearings with C3 clearance



#### Discharge connection

2" hose, ISD-G or NPT

#### Materials

Casted parts: Aluminium

Outer casing: Stainless steel

Motor shaft: Stainless steel

Impeller: Hard-Iron™

Diffusers: Nitrile rubber

Screws and nuts: Stainless steel

O-rings: Nitrile rubber

#### Accessories

Float switch,

Zinc anodes

Low suction collar

Pump raft

# Minette

## Submersible Dewatering Pump



### Pump specifications

Type	Minette	
50Hz	1-ph	3-ph
Discharge connection	3"	3"
Rated Power P (kW)	1.5	2.2
Max. power consumption P (kW)	1.9	2.7
Shaft speed (r.p.m.)	2830	2800
Rated speed at 230V	8.4 A	8.1 A
Rated current at 400V	-	4.5 A
Rated current at 500V	-	3.6 A
Solids passage (mm)	9	9
Height (mm)	676	676
Diameter (mm)	240	240
Weight (kg)	29	29

Other voltages on request

### Features

#### Classification

Electrical submersible drainage pump. Protection class: IP68

#### Electrical motor

1-phase: Squirrel cage induction motor with start and run capacitor

3-phase: Squirrel cage induction motor

Insulation Class: F (IEC85)

#### Motor protection

1-phase: Temperature guard with a thermal contact in stator opening temperature 125°C (257°F), air valve

3-phase: Phase sequence control, phase failure guard, temperature guard with thermal contacts in the stator opening temperature 125°C (257°F) (= SMART system), air valve

#### Cable - SubCab

1-phase: 3G1,5mm<sup>2</sup>, 20m (66ft) / 14AWG/3, 53ft

3-phase: 4G1,5mm<sup>2</sup>, 20m (66ft) / 14AWG/4, 53ft

#### Limitations

Max. submersion depth: 20m (66ft)

Max. liquid temperature: 40°C (104°F)

Allowed pH range: 5 - 8

Maximum liquid density: 1100kg/m<sup>3</sup> (68lbs/ft<sup>3</sup>)

#### Shaft Seals

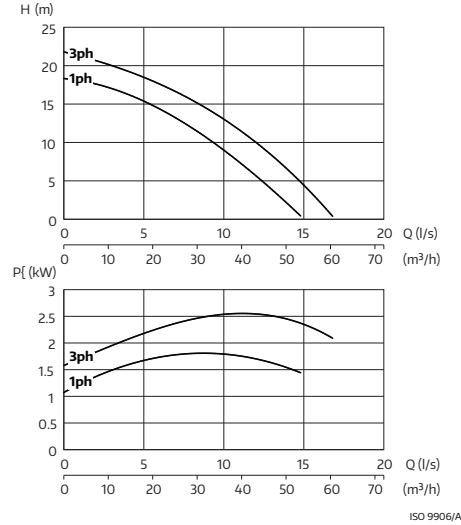
Cartridge seal: pre-assembled double mechanical seal running in an oil compartment

Material lower seal: silicon carbide - silicon carbide

Material upper seal: tungsten carbide - aluminium oxide

#### Bearings

Ball bearings with C3 clearance



ISO 9906/A

#### Discharge connections

3" hose, ISD-G or NPT

#### Materials

Casted parts: Aluminium

Outer casing: Stainless steel

Motor shaft: Stainless steel

Impeller: Hard-Iron™

Suction cover: Hard-Iron™

Diffusers: Nitrile rubber

Screws and nuts: Stainless steel

O-rings: Nitrile rubber

#### Accessories

Float switch; Zinc anodes; Low suction collar; Pump raft

# Minor

## Submersible Dewatering Pump



### Pump specifications

Type	Minor	
<b>50Hz</b>	N	H
<b>Discharge connection</b>	4"	3"
<b>Rated Power P} (kW)</b>	3.7	3.7
<b>Max. power consumption P} (kW)</b>	4.4	4.4
<b>Shaft speed (r.p.m.)</b>	2885	2885
<b>Rated speed at 230V</b>	13 A	13 A
<b>Rated current at 400V</b>	7.3 A	7.3 A
<b>Rated current at 500V</b>	5.4 A	5.4 A
<b>Rated current at 1000V</b>	2.9 A	2.9 A
<b>Solids passage (mm)</b>	10	10
<b>Height (mm)</b>	768	768
<b>Diameter (mm)</b>	286	286
<b>Weight (kg)</b>	50	50

Other voltages on request

### Features

#### Pump types

N: normal pressure  
 H: high pressure

#### Classification

Electrical submersible drainage pump  
 Protection class: IP68

#### Electrical motor

Squirrel cage induction motor. Insulation Class: H (IEC85)

#### Motor protection

Phase sequence control, phase failure guard, temperature guard with thermal contacts in the stator opening temperature 140°C (284°F) (= SMART system), air valve

#### Cable - SubCab

4G2,5mm<sup>2</sup>, length 20m or 14AWG/4, length 53ft

#### Limitations

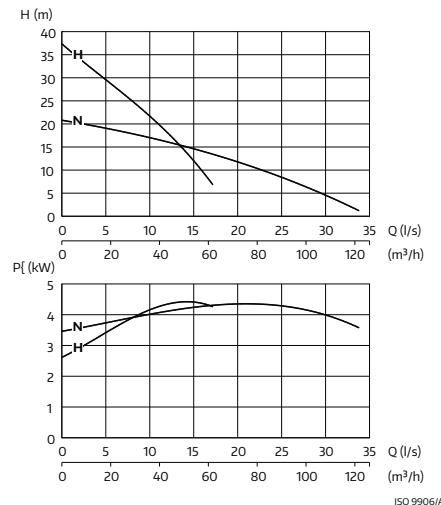
Max. submersion depth: 20m (66ft)  
 Max. liquid temperature: 40°C (104°F)  
 Allowed pH range: 5 - 8  
 Maximum liquid density: 1100kg/m<sup>3</sup> (68lbs/ft<sup>3</sup>)

#### Shaft Seals

Cartridge seal: pre-assembled double mechanical seal running in an oil compartment  
 Material lower seal: silicon carbide - silicon carbide  
 Material upper seal: tungsten carbide - aluminium oxide

#### Bearings

Ball bearings with C3 clearance



#### Discharge connection

3-4" hose, ISD-G or NPT

#### Materials

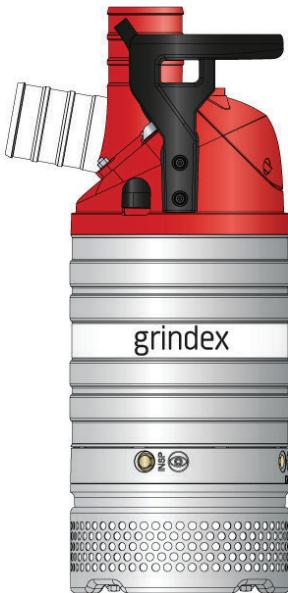
Casted parts: Aluminium  
 Outer casing: Stainless steel  
 Motor shaft: Stainless steel  
 Impeller and suction cover: Hard-Iron™  
 Diffusers: Nitrile rubber  
 Screws and nuts: Stainless steel  
 O-rings: Nitrile rubber

#### Accessories

Level regulator; Zinc anodes; Tandem connection;  
 Low suction collar; Pump raft

# Major

## Submersible Dewatering Pump



### Pump specifications

Type	Major	
50Hz	N	H
Discharge connection	4"	3"
Rated Power $P_1$ (kW)	5.6	5.6
Max. power consumption $P_2$ (kW)	6.6	6.6
Shaft speed (r.p.m.)	2895	2895
Rated current at 230V	19 A	19 A
Rated current at 400V	11 A	11 A
Rated current at 500V	8.7 A	8.7 A
Rated current at 1000V	4.3 A	4.3 A
Solids passage (mm)	10	10
Height (mm)	768	768
Diameter (mm)	286	286
Weight (kg)	50	50

Other voltages on request

### Features

#### Pump types

N: normal pressure, H: high pressure

#### Classification

Electrical submersible drainage pump. Protection Class: IP68

#### Electrical motor

Squirrel cage induction motor. Insulation Class: H (IEC85)

#### Motor protection

Phase sequence control, phase failure guard, temperature guard with thermal contacts in the stator opening temperature 140°C (284°F) (= SMART system), air valve

#### Cable – SubCab

4G2.5mm<sup>2</sup>, length 20m or 14AWG/4, length 53 ft

#### Limitations

Max. submersion depth: 20m (66 ft)

Max. liquid temperature: 40°C (104°F)

Allowed pH range: 5 - 8

Maximum liquid density: 1100 kg/m<sup>3</sup> (68lbs/ft)

#### Shaft Seals

Cartridge seal: pre-assembled double mechanical seal running in an oil compartment

Material lower seal: silicon carbide - silicon carbide

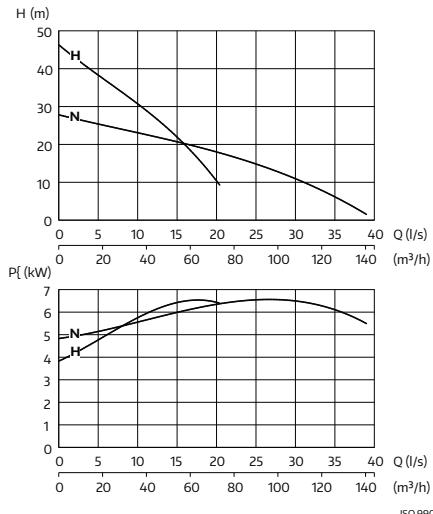
Material upper seal: tungsten carbide - aluminium oxide

#### Bearings

Ball bearings with C3 clearance

#### Discharge connection

3-4" hose, ISO-G BSP or NPT



ISO 9906/A

#### Materials

Casted parts: Aluminium

Outer casing: Stainless steel

Motor shaft: Stainless steel

Impeller and suction cover: Hard-Iron™

Diffusers: Nitrile rubber

Screws and nuts: Stainless steel

O-rings: Nitrile rubber

#### Accessories

Level regulator; Zinc anodes; Low suction collar;

Tandem connection; Pump raft

# Master

## Submersible Dewatering Pump



### Pump specifications

Type	Master		
<b>50Hz</b>	N	H	SH
<b>Discharge connection</b>	6"	4"	3"
<b>Rated Power P} (kW)</b>	10	10	10
<b>Max. power consumption P{ (kW)</b>	11.7	11.7	11.7
<b>Shaft speed (r.p.m.)</b>	2855	2855	2855
<b>Rated current at 230V</b>	33 A	33 A	33 A
<b>Rated current at 400V</b>	21 A	21 A	21 A
<b>Rated current at 500V</b>	15 A	15 A	15 A
<b>Rated current at 1000V</b>	8 A	8 A	8 A
<b>Solids passage (mm)</b>	10	10	10
<b>Height (mm)</b>	832	832	887
<b>Diameter (mm)</b>	346	346	346
<b>Weight (kg)</b>	80	80	98

Other voltages on request

### Features

#### Pump types

N: normal pressure,  
 H: high pressure,  
 SH: super high pressure

#### Classification

Electrical submersible drainage pump. Protection Class: IP68

#### Electrical motor

Squirrel cage induction motor. Insulation Class: H (IEC85)

#### Motor protector

Phase sequence control, phase failure guard, temperature guard with thermal contacts in the stator opening temperature 140°C (284°F) (= SMART system), air valve.  
 - DOL, tar/delta  
 - Softstarter (only 400V-50Hz)

#### Cable – SubCab

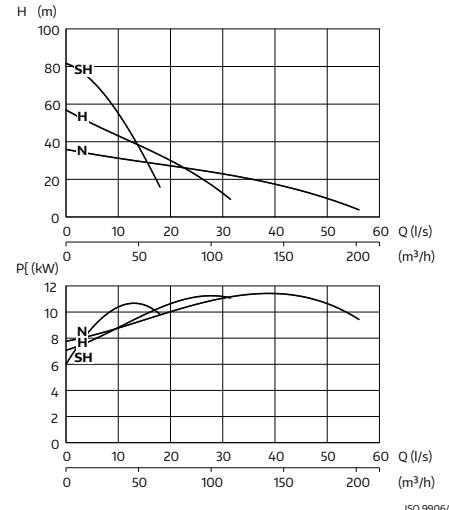
230V: 4G4mm<sup>2</sup>, 20m (66ft) or 8AWG/4, 53ft  
 380-575V: 4G4mm<sup>2</sup>, 20m (66ft) or 12AWG/4, 53ft

#### Limitations

Max. submersion depth: 20m (66ft)  
 Max. liquid temperature: 40°C (104°F)  
 Allowed pH range: 5 - 8  
 Maximum liquid density: 1100kg/m<sup>3</sup> (68lbs/ft<sup>3</sup>)

#### Shaft Seals

Cartridge seal: pre-assembled double mechanical seal running in an oil compartment  
 Material lower seal: silicon carbide - silicon carbide  
 Material upper seal: tungsten carbide - aluminium oxide



#### Bearings

Ball bearings with C3 clearance

#### Discharge connection

3-6" hose, ISO-G or NPT

#### Materials

Casted parts: Aluminium  
 Outer casing: Stainless steel  
 Motor shaft: Stainless steel  
 Impeller and suction cover: Hard-Iron™  
 Diffusers: Nitrile rubber  
 Screws and nuts: Stainless steel  
 O-rings: Nitrile rubber

#### Accessories

External level regulator, Zinc anodes, Tandem connection, Pump raft

**Available in New Zealand from:**

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