

Qty. Description

1 SP 30-10



Note! Product picture may differ from actual product

Product No.: [13A01910](#)

Submersible borehole pump, suitable for pumping clean water. Can be installed vertically or horizontally. All steel components are made in stainless steel, EN 1.4301 (AISI 304), that ensures high corrosive resistance. This pump carries drinking water approval.

The pump is fitted with a 9.2 kW MS6000 motor with sand shield, mechanical shaft seal, water-lubricated journal bearings and a volume compensating diaphragm. The motor is a canned type submersible motor offering good mechanical stability and high efficiency.

The motor is fitted with the Grundfos Tempcon sensor that, by use of powerline communication together with a MP204 control panel, enables temperature monitoring.

The motor is for direct-on-line starting (DOL).

Further product details

The pump is suitable for applications similar to the following:

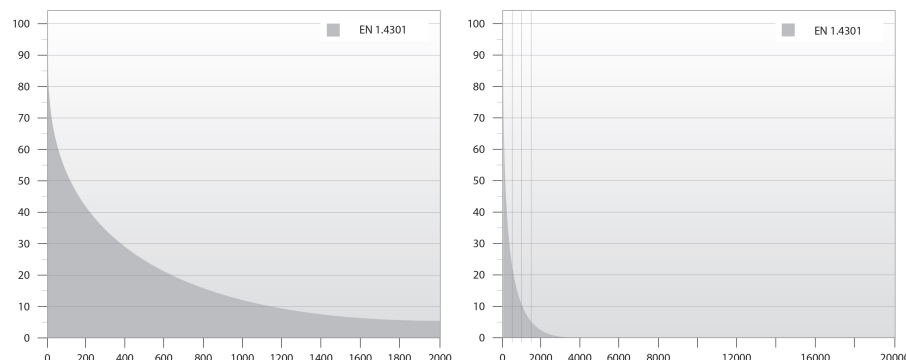
- raw-water supply
- irrigation
- groundwater lowering
- pressure boosting
- fountain applications.

The Grundfos SP pump is renowned for its high efficiency and already complies with the requirements of the Minimum Efficiency Index, and therefore Grundfos is amongst the best in class within submersible pumps.




Pump

All pump surfaces that are in contact with pumped liquids are made in stainless steel which makes them corrosion- and wear-resistant. The corrosion diagram below shows the capabilities of the pump and motor in relation to the temperature in Celsius (y-axis) and the concentration of chloride in ppm (x-axis).



The elastomer parts in the pump are made of NBR (Nitrile-Butadiene Rubber) which ensures good wear resistance and long service intervals.

Qty.	Description
1	<p>In case the pump is used for pumping water with high content of hydrocarbons or solvents, Grundfos offers FKM rubber parts (Fluorocarbon) which are oil and temperature-resistant up to 90 °C.</p> <p>The pump is built with octagonal bearings with sand flush channels that minimise wear. As wear of the pump is inevitable, the pump design allows for easy replacement of all internal wear parts (bearings, impeller, wear rings and seal rings) to maintain high performance and a long lifetime.</p> <p>The suction interconnector is fitted with a strainer to prevent large particles from entering the pump. The suction interconnector is designed to comply with NEMA standards for motor mounting/dimensions.</p> <p>Motor</p> <p>The stator is hermetically encapsulated in stainless steel and the windings are embedded in polymer compound. This results in high mechanical stability, optimum cooling and reduces the risk of short circuits in the windings.</p> <p>The shaft seal faces are ceramic/carbon. The material combination provides good dry-running resistance. Together with the shaft seal housing, the sand shield forms a labyrinth seal, which during normal operating conditions prevents penetration of sand particles into the shaft seal.</p> <p>The motor is fitted with the Grundfos Tempcon temperature sensor device that includes a NTC-resistor which senses the temperature.</p> <p>The resistor is built-in close to the winding.</p> <p>The temperature is converted into a high-frequency signal which is sent via the submersible drop cable and which can be converted into a temperature reading by means of Grundfos MP204.</p> <p>The MP204 is an electronic motor protection device that also monitors the supply network quality to protect the submersible motor against supply network disturbances.</p>  <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -15 .. 40 °C</p> <p>Selected liquid temperature: 20 °C</p> <p>Density: 998.2 kg/m³</p> <p>Technical:</p> <p>Pump speed on which pump data are based: 2900 rpm</p> <p>Rated flow: 30 m³/h</p> <p>Rated head: 77 m</p> <p>Shaft seal for motor: CER/CARNBR</p> <p>Approvals: CE,EAC,UKCA,SEPRO,MOROCCO</p> <p>Approvals for drinking water: ACS,DM174</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p>Motor version: T40</p> <p>Return valve: YES</p> <p>Materials:</p> <p>Pump: Stainless steel EN 1.4301 AISI 304</p> <p>Impeller: Stainless steel EN 1.4301 AISI 304</p> <p>Motor: Stainless steel DIN W.-Nr. 1.4301 AISI 304</p>



Company name:

Created by:

Phone:

Date:

25/10/2024

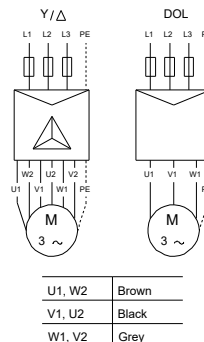
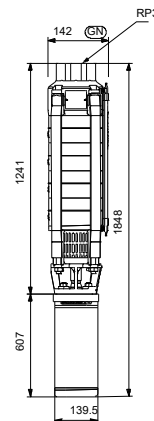
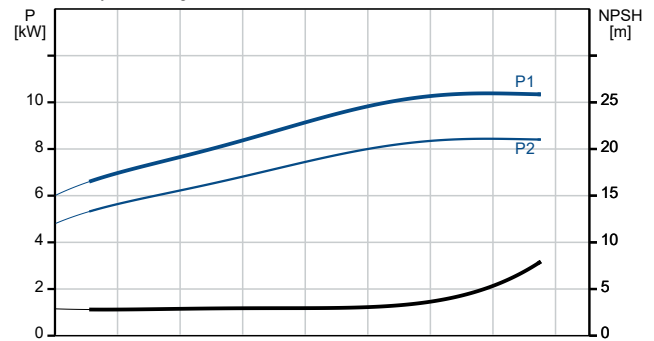
Qty.	Description
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1	<div>Installation: Maximum ambient pressure: 60 bar Maximum operating pressure: 60 bar Maximum outlet pressure: 11.6 bar Type of connection: Rp Size of connection: 3 inch Motor diameter: 6 inch Minimum borehole diameter: 145 mm Electrical data: Motor type: MS6000 Motor flange design: Grundfos Rated power - P2: 9.2 kW Power (P2) required by pump: 9.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 21.8-21.2-21.2 A Starting current: 480-520-550 % Cos phi - power factor: 0.84-0.82-0.78 Rated speed: 2850-2870-2880 rpm Start. method: DOL Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Built-in temp. transmitter: Y Length of cable: 5 m Power cable type: FLAT Motor No: 78195513 Windings: Enamelled Others: Minimum efficiency index, MEI ≥: 0.50 Net weight: 68.9 kg Gross weight: 98.7 kg Shipping volume: 0.232 m³ Danish VVS No.: 388338100 Finnish LVI No.: 4762739 Environmental approvals: WEEE</div>
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Description	Value
General information:	
Product name:	SP 30-10
Product No:	13A01910
EAN number:	5700390381196
Technical:	
Pump speed on which pump data are based:	2900 rpm
Rated flow:	30 m³/h
Rated head:	77 m
Stages:	10
Number of reduced-diameter impellers:	NONE
Shaft seal for motor:	CER/CARNBR
Approvals:	CE, EAC, UKCA, SEPRO, MOR OCCO
Approvals for drinking water:	ACS, DM174
Curve tolerance:	ISO9906:2012 3B
Model:	B
Motor version:	T40
Return valve:	YES
Materials:	
Pump:	Stainless steel
Pump:	EN 1.4301
Pump:	AISI 304
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Motor:	Stainless steel
Motor:	DIN W.-Nr. 1.4301
Motor:	AISI 304
Installation:	
Maximum ambient pressure:	60 bar
Maximum operating pressure:	60 bar
Maximum outlet pressure:	11.6 bar
Type of connection:	Rp
Size of connection:	3 inch
Motor diameter:	6 inch
Minimum borehole diameter:	145 mm
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-15 .. 40 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	MS6000
Motor flange design:	Grundfos
Rated power - P2:	9.2 kW
Power (P2) required by pump:	9.2 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Rated current:	21.8-21.2-21.2 A
Starting current:	480-520-550 %
Cos phi - power factor:	0.84-0.82-0.78
Rated speed:	2850-2870-2880 rpm
Start. method:	DOL
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Built-in motor protection:	NONE
Thermal protec:	EXT.



Pumped liquid = Water
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³





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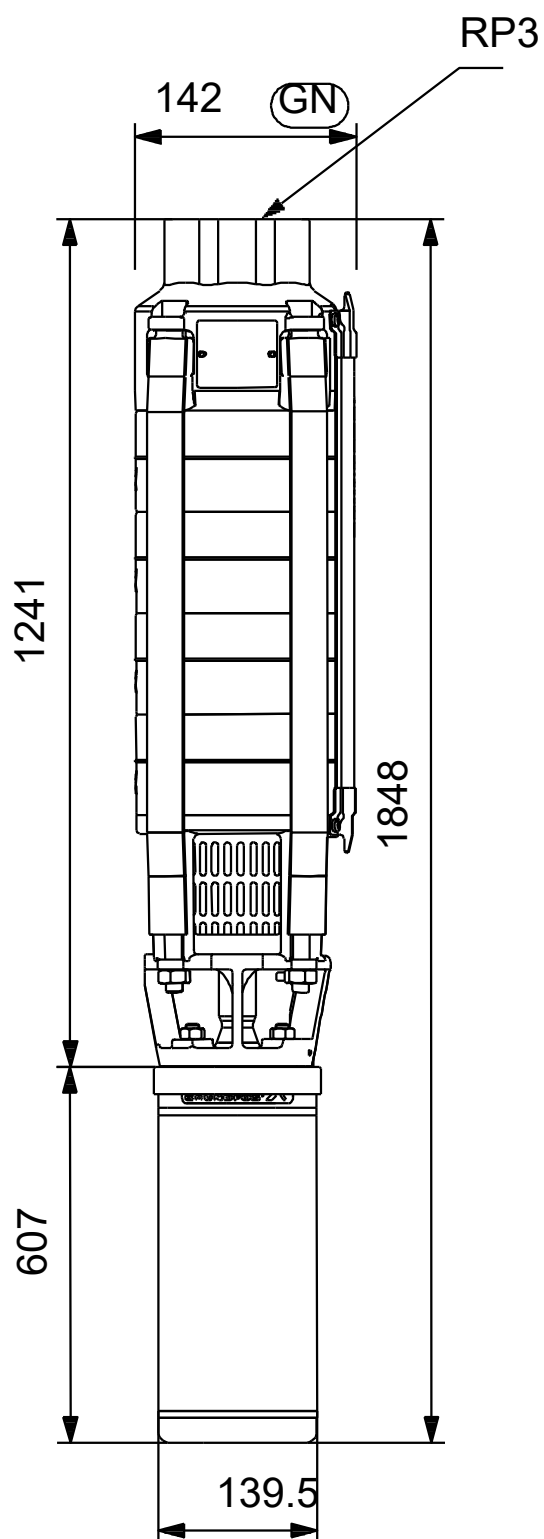
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25/10/2024

Description	Value
Built-in temp. transmitter:	Y
Length of cable:	5 m
Power cable type:	FLAT
Motor No:	78195513
Cable number:	96164209
Windings:	Enamelled
Others:	
Minimum efficiency index, MEI ≥:	0.50
Net weight:	68.9 kg
Gross weight:	98.7 kg
Shipping volume:	0.232 m³
Danish VVS No.:	388338100
Finnish LVI No.:	4762739
Environmental approvals:	WEEE

13A01910 SP 30-10 50 Hz



Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.