

... UNCOMPLICATED ELECTRONICS

The built-in electronics add many features to the SQ/SQE series, which makes every pump very easy to operate. Overall system reliability and sustainability is assured by simple and robust electronics which have proved their worth over many years.



... ADVANCED DESIGN

A submersible pump needs incredible endurance to survive the wear and tear of pumping year after year. That is why we make the Grundfos SQ/SQE pumps with advanced composite and stainless steel parts. The innovative design, and state-of-art technology, has made the SQ/SQE series the market's leading 3" submersible pump.

BE ▶ responsible

Being responsible is our foundation. We know that we have a responsibility towards the people who are Grundfos, towards the innovative soul of Grundfos as well as towards the surrounding world. Whatever we do, we make sure that we have a firm and sustainable basis for doing it.

THINK ▶ ahead

Thinking ahead makes the innovations possible. We encourage a certain Grundfos way of thinking which is founded upon the belief that everyone must contribute by using his or her judgement and foresight. We are looking for commitment and ideas in everything we do in order to make the best solutions. We think – and then we act.

INNOVATE ▶

Innovation is the essence. It is the innovations that make Grundfos unique. We stand out because of our ability to constantly create new solutions to the ever-changing demands of the pump business. We meet every challenge and we are never afraid of taking the initiative – remaining true to our ideals calls for renewal. Innovation is the soul of Grundfos.

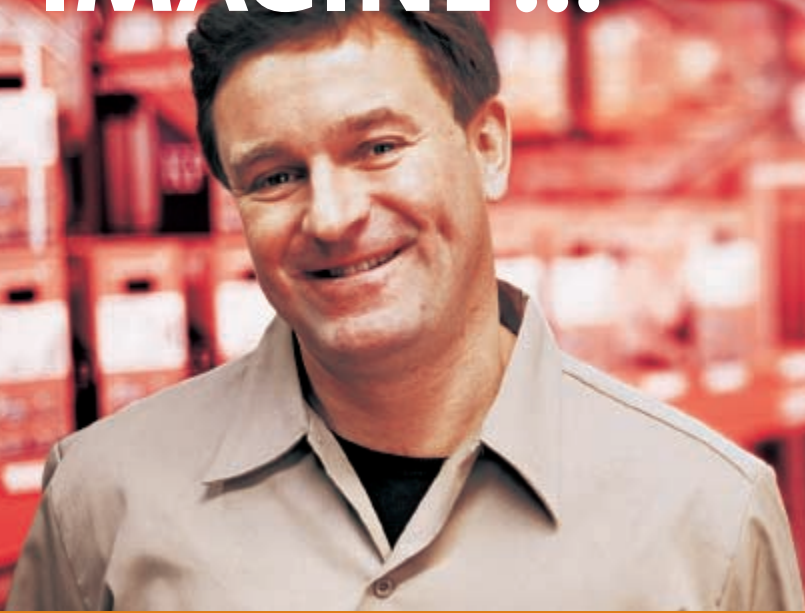
IMAGINE ...

**... ONE SOLUTION
TO CONSTANT
WATER PRESSURE**

SUBMERSIBLE DOMESTIC WATER SUPPLY PUMPS



IMAGINE ...



... EASY INSTALLATIONS

The fantastic thing about the SQE is that state-of-the-art technology has been utilised to make my life easier in two ways. First, the entire system is very easy to install. Second, the components rarely fail. So for me, the SQE means easy installations which require virtually no maintenance.



... AN ENTIRE SOLUTION IN ONE BOX

Not only did Grundfos develop a constant water pressure solution that is second to none in terms of performance, they had the brilliant idea of putting everything in one box. I'm left without the bother of ordering different numbers of this and different numbers of that, and instead I have the sheer convenience of one box solutions.



... CONSTANT WATER PRESSURE

Constant water pressure, which is also adjustable, means we always get what we need when we turn on the tap. But if necessary, at the touch of a button we can turn the pressure up to wash the car, and back down again to wash the dishes. With a control unit that tells us how the pump is performing and warns us of any faults, all our water supply needs are answered.



IMAGINE THE DOMESTIC WATER SUPPLY SYSTEM THAT ...

... DOES WHAT YOU WANT IT TO

The SQE pump with CU301 control unit offers full water supply control and sets the pump to deliver constant pressure according to relevant household needs. Even when requirements change, the system is easy to adjust. A simple push of a button will start, adjust, re-set or stop the pump.

... STARTS EVERY TIME

Grundfos motors employ an advanced permanent magnet technology that delivers unusually high starting torque. The high locked-rotor torque, combined with fewer pump stages, eliminates starting problems. The motors will even start when supply voltage is low.

... WON'T OVERLOAD

SQ/SQE pumps have a permanent-magnet-driven motor controlled by a micro-frequency converter designed and built by Grundfos. Its soft-start system reduces water hammering, light flickering and other electrical disturbances. Soft start reduces wear and prevents overloading of electrical installations during start-up. When most pumps are subjected to excessive load, current consumption increases. But the SQ/SQE's motor automatically compensates by reducing the speed instead. If the speed drops below a pre-programmed value, the motor shuts off completely. A controller constantly monitors the permanent-magnet rotor. If, for any reason, the rotor stops running, power is cut off. No separate motor protection is needed!

THE SQE/CU301



OTHER SQ/SQE SERIES SOLUTIONS:

SQE/CU300 WITH R100 REMOTE CONTROL

- Read out real-time pump status
- Adjust pump parameters to changing well conditions
- Program speed change
- Maintain constant pressure
- Maintain water level
- Monitor unit remotely via modem connection and PC
- Flexible sensor connection according to needs

SQ SINGLE SPEED PUMP

Our basic model, the SQ, is a high-performance unit that will start even when voltage level is low. It will run constantly – even when voltage supply fluctuates. The SQ single speed pump requires no separate starter box.

... WON'T GET DAMAGED BY DRY RUNNING

Dry running protection shuts down the pump if it detects a water shortage. It protects the well from being over-pumped and the pump from breaking down. It will re-start after a pre-set time.

... WON'T GET DAMAGED DURING START-UP

When pumps start against a low counter-pressure, the risk of upthrust in the impeller stack rises. So does the risk of damage to the pump and motor. Grundfos motors are fitted with a stop ring to protect the pump and motor from this risk of damage during start-up.

... WON'T GET DAMAGED BY AN UNSTABLE POWER SUPPLY

Unstable power supply can damage conventional AC motors. The MS 3 motors in SQ/SQE pumps (nominal 200-240 V, 50/60 Hz) cut-out if voltage exceeds 280 V or drops below 150 V. When normal voltage is restored the pump automatically starts again.

IMAGINE ...



... STATE-OF-THE-ART MOTOR TECHNOLOGY

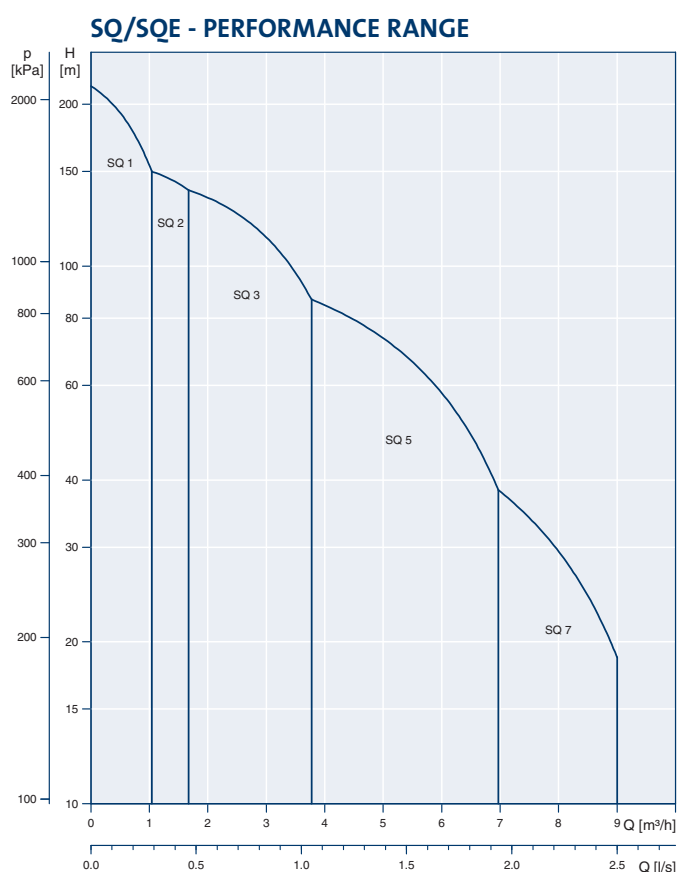
A powerful and compact permanent magnetic motor is incorporated into all pumps in the SQ/SQE series. Working alongside the integrated intelligent electronics, the permanent magnetic motor delivers optimum power supply, making the SQ/SQE further unique.



... A WIDE PERFORMANCE RANGE

The wide performance range of the SQ/SQE series ensures that you will be able to find exactly the pump that covers your specific demands.

The SQ/SQE series can provide the features of both a traditional submersible pump and the unique comfort of the SQE Constant Pressure System.



Technical information

Performance range:	Flow up to 9m ³ /h (SQ/SQE 7) Head up to 200m (SQ/SQE 1)
Nominal voltage range:	1x200-230V 1x100-115V
Frequency (of the voltage supply):	50/60Hz
Max. acceptable media temperature:	30°C (40°C)
Pump diameter:	Ø74mm
Weight (min./max.):	4.7 - 6.4Kg
Thread connections:	RP 1¼ / RP 1½
Minimum well diameter:	Ø76mm

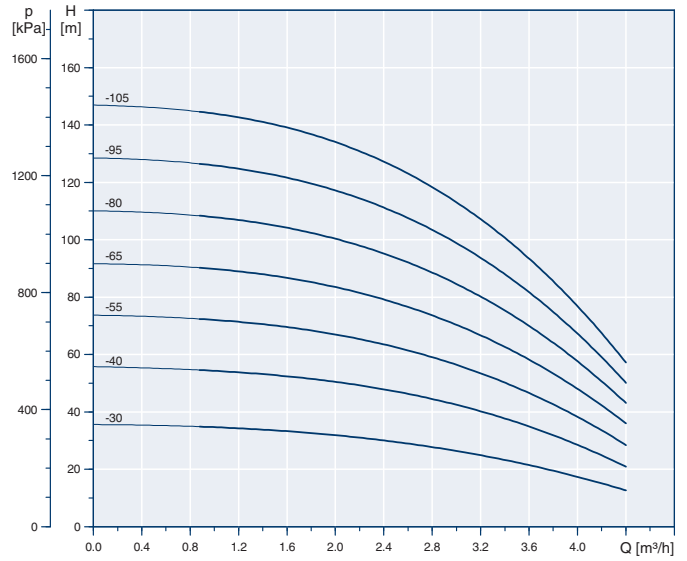
The SQ/SQE pumps can be installed vertically as well as horizontally.

SPECIFIC PUMP PERFORMANCES

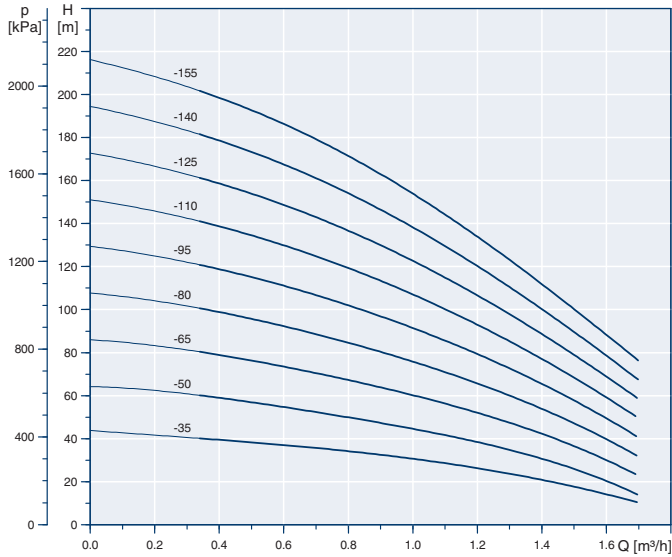
The five different pump sizes cover the capacity demands of all domestic installations.

IF YOU NEED TO KNOW MORE ABOUT THE PRODUCTS, PLEASE CONTACT GRUNDFOS.

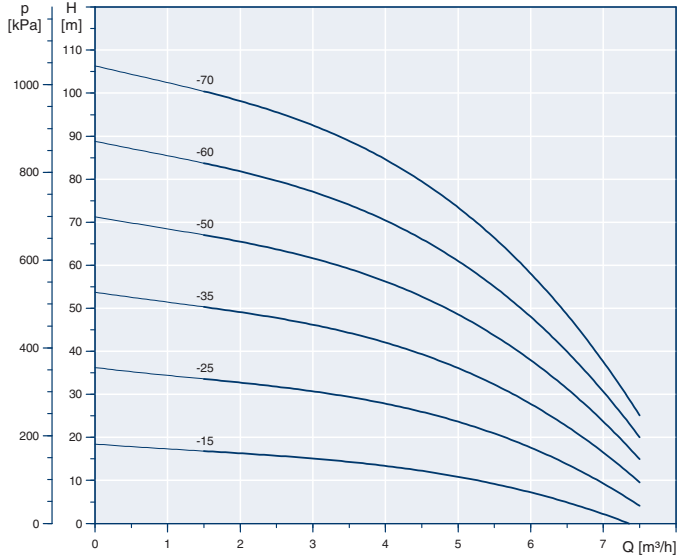
SQ/SQE 3 ISO 9906 Annex A



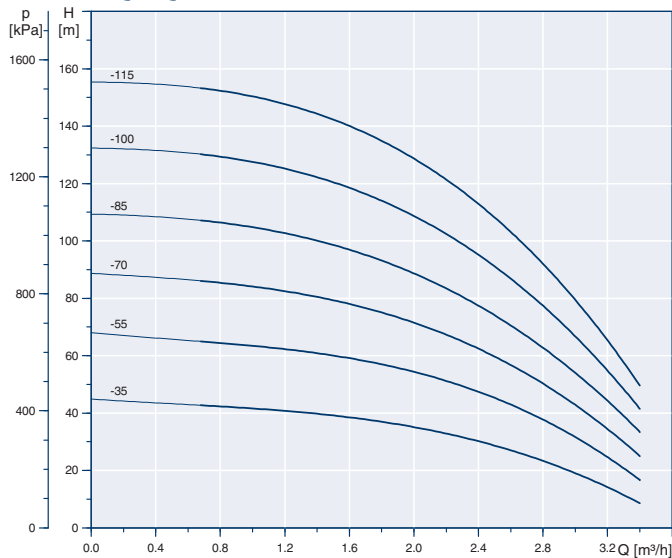
SQ/SQE 1 ISO 9906 Annex A



SQ/SQE 5 ISO 9906 Annex A



SQ/SQE 2 ISO 9906 Annex A



SQ/SQE 7 ISO 9906 Annex A

