



The choice is yours

The SQ pump is the basic model of the Grundfos 3" submersible pump range. With a wide range of performance parameters, you're sure to find a model that will suit your individual requirements.

Long and lean, this multistage pump is constructed of corrosion-resistant stainless steel, ensuring a long, reliable life. Only 3" in diameter, the compact design allows placement in small boreholes of the same size, or even 4" boreholes that have become smaller due to ochre deposits. Other pumps with similar capacities are usually 4" in diameter.

The SQ single high-speed pumps are ideally suited for a variety of applications:

- Domestic water supply
- Small water works
- Irrigation
- Groundwater lowering

Permanent magnet motor

A series of unique features make the SQ series very easy to install and operate, and ensure a reliable water supply at all times. Thanks to its' high-speed permanent magnet motor, it offers a very high performance in relation to its compact design.

The motor enables the SQ to pump water from a borehole to a depth of 200 metres.

The special SQN pumps are engineered in an even higher grade of stainless steel for applications with slightly aggressive liquids.

Years of reliability

The individual models of the SQ series are composed of high-quality stainless steel. Combining this with a robust internal construction and sturdy impellers provides the user with years of reliable operation.

Protection against dry running

Dry running is one of the most disastrous situations a pump can experience. The absence of liquid can cause the pump shaft to seize up, initiating the burn out of motor windings, unless the power is switched off. In case of dry running the SQ pump automatically switches off.

BE ➤ THINK ➤ INNOVATE ➤

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

GRUNDFOS SQ/SQN



Meeting your water supply needs

Grundfos SQ/SQN

– an outstanding solution

- ▶ Soft start reduces wear on motor and prevents spikes in electrical demand
- ▶ High starting torque, even at low supply voltage
- ▶ Overload protection protects motor from unstable voltage supplies
- ▶ Dry running protection safeguards against damage from an absence of liquid
- ▶ Automatic re-start ensures a reliable water supply following preventative shutdown
- ▶ 100% stainless steel construction provides durability and peace-of-mind



Technical information

Performance range: Flow up to 9m³/h (SQ/SQN 7), Head up to 200 m (SQ/SQN 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

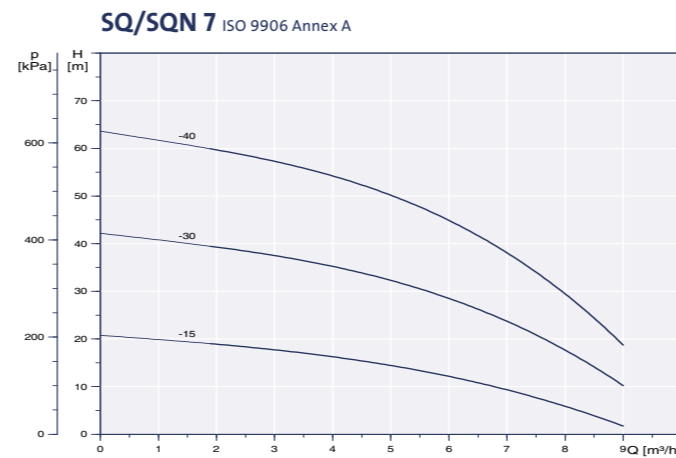
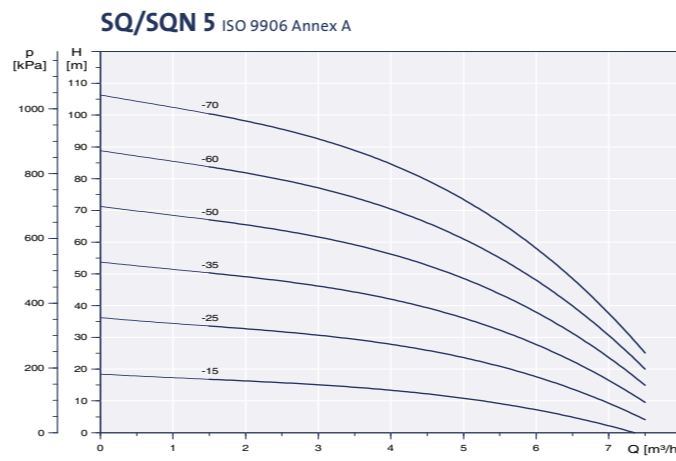
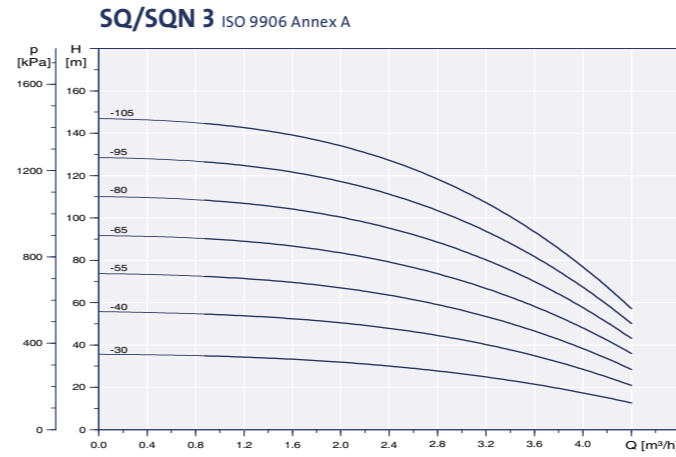
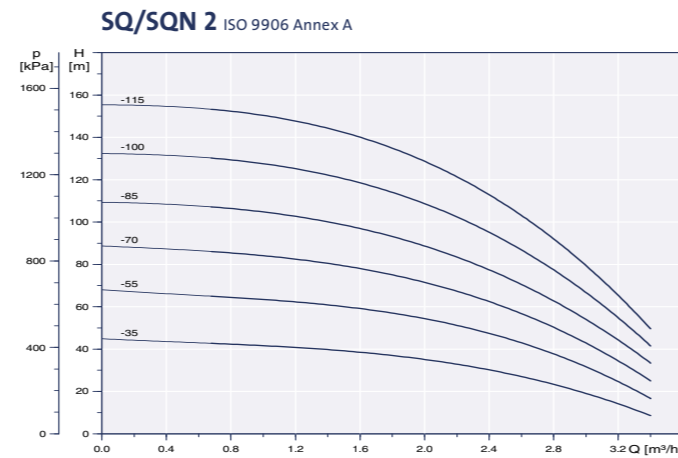
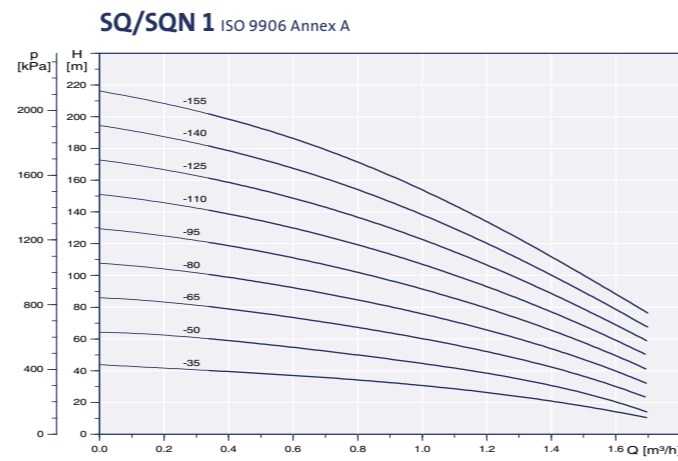
Weight (min./max.): 4.7 - 6.4 kg

Thread connections: RP 1½" / RP 1½"

Minimum well diameter: Ø76mm

Materials (Stainless steel): SQ - DIN W.-Nr. 1.4301, AISI 304, SQN - DIN W.-Nr. 1.4401, AISI 316

The SQ/SQN pumps can be installed vertically or horizontally.



Product range and performance

Pump type	Power, pump [kW]	Flow rate Q [m ³ /h] / [l/s]												Max. head [m]	Full-load current I _{1/1} [A]		Pipe connection Rp	Length [mm]	
		0.5/0.14	1.0/0.28	1.5/0.42	2.0/0.56	2.5/0.70	3.0/0.83	3.5/0.97	4.0/1.11	5.0/1.39	6.0/1.67	7.0/1.95	8.0/2.22		9.0/2.50	230V			200V
		Head [m]																	
SQ 1 - 35	0.29	38	31	18	-	-	-	-	-	-	-	-	-	44	2.1	2.4	1½	745	
SQ 1 - 50	0.44	57	45	26	-	-	-	-	-	-	-	-	-	64	2.8	3.2	1½	745	
SQ 1 - 65	0.58	76	60	37	-	-	-	-	-	-	-	-	-	86	3.7	4.3	1½	772	
SQ 1 - 80	0.73	96	76	47	-	-	-	-	-	-	-	-	-	108	4.4	5.1	1½	826	
SQ 1 - 95	0.87	115	91	58	-	-	-	-	-	-	-	-	-	129	5.4	6.2	1½	826	
SQ 1 - 110	1.03	135	107	68	-	-	-	-	-	-	-	-	-	151	6.2	7.1	1½	853	
SQ 1 - 125	1.20	154	123	79	-	-	-	-	-	-	-	-	-	173	7.8	9.0	1½	943	
SQ 1 - 140	1.37	173	138	90	-	-	-	-	-	-	-	-	-	194	8.9	10.2	1½	943	
SQ 1 - 155	1.55	193	154	100	-	-	-	-	-	-	-	-	-	216	10.2	10.9	1½	970	
SQ 2 - 35	0.45	43	42	39	35	29	19	-	-	-	-	-	-	45	3.2	3.7	1½	745	
SQ 2 - 55	0.65	66	63	60	54	45	32	-	-	-	-	-	-	68	4.1	4.7	1½	745	
SQ 2 - 70	0.87	87	84	79	72	60	43	-	-	-	-	-	-	89	5.4	6.2	1½	772	
SQ 2 - 85	0.98	108	105	99	89	74	54	-	-	-	-	-	-	109	6.8	7.8	1½	862	
SQ 2 - 100	1.30	131	128	120	109	91	67	-	-	-	-	-	-	132	8.4	9.7	1½	862	
SQ 2 - 115	1.50	154	150	142	129	108	79	-	-	-	-	-	-	155	9.9	11.1	1½	889	
SQ 3 - 30	0.44	-	-	34	32	30	26	22	-	-	-	-	-	36	3.2	3.7	1½	745	
SQ 3 - 40	0.63	-	-	53	50	47	42	36	-	-	-	-	-	56	4.0	4.6	1½	745	
SQ 3 - 55	0.83	-	-	70	67	63	56	48	-	-	-	-	-	74	5.1	5.9	1½	772	
SQ 3 - 65	1.02	-	-	87	83	78	70	60	-	-	-	-	-	92	6.2	7.1	1½	826	
SQ 3 - 80	1.23	-	-	105	100	94	85	73	-	-	-	-	-	110	7.9	9.1	1½	862	
SQ 3 - 95	1.43	-	-	123	117	109	99	85	-	-	-	-	-	129	9.2	10.6	1½	889	
SQ 3 - 105	1.63	-	-	140	134	125	113	97	-	-	-	-	-	147	10.6	-	1½	943	
SQ 5 - 15	0.26	-	-	-	-	-	15	14	13	11	7	-	-	18	1.9	2.2	1½	745	
SQ 5 - 25	0.54	-	-	-	-	-	31	29	28	24	18	-	-	36	3.4	3.9	1½	745	
SQ 5 - 35	0.80	-	-	-	-	-	46	44	42	36	28	-	-	54	4.9	5.6	1½	826	
SQ 5 - 50	1.06	-	-	-	-	-	62	59	56	49	38	-	-	71	7.0	8.1	1½	826	
SQ 5 - 60	1.33	-	-	-	-	-	77	74	70	61	48	-	-	89	8.6	9.9	1½	943	
SQ 5 - 70	1.60	-	-	-	-	-	93	89	85	73	58	-	-	106	10.4	-	1½	943	
SQ 7 - 15	0.42	-	-	-	-	-	17	16	14	12	9	6	2	21	2.8	3.2	1½	745	
SQ 7 - 30	0.84	-	-	-	-	-	36	35	32	29	24	18	10	42	5.2	6.0	1½	745	
SQ 7 - 40	1.27	-	-	-	-	-	56	54	50	45	38	29	19	64	8.2	9.5	1½	862	

Example of how to select a pump

Required: Flow rate: 2.4 m³/h => nearest higher value in table is 2.5 m³/h
Head: 68.3 m => nearest higher value in the table is 78 m

Selected: Pump type: SQ 3-65
Required pump power input: 1.02 kW
Full load current: I_{1/1} = 6.2 A at 230 V
I_{1/1} = 7.1 A at 200 V
Pipe connection: RP 1½"
Length of pump: 826 mm

The tool for selecting the right pump

Grundfos WinCAPS contains complete information about all Grundfos pumps, including performance curves, drawings and installation and service information.

