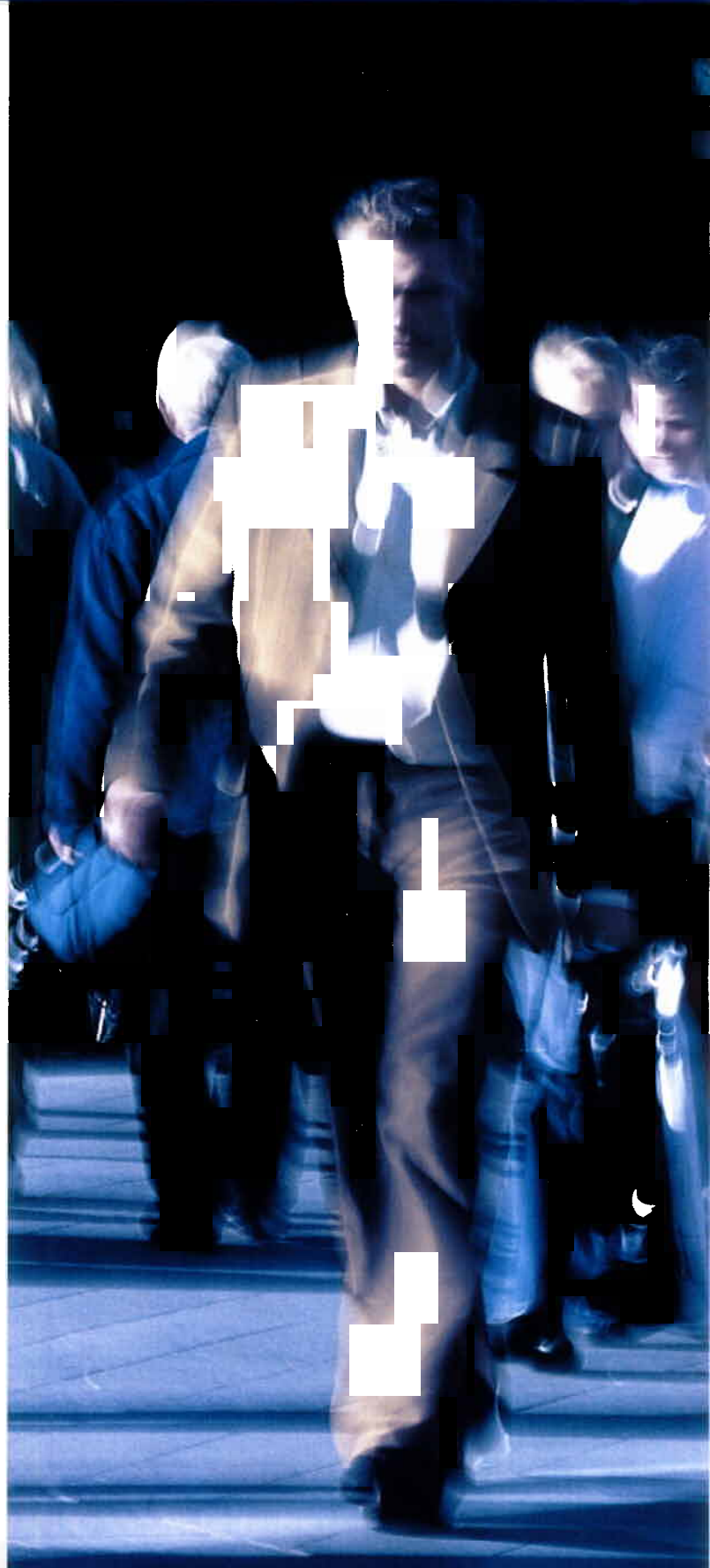


SUBMERSIBLE 3" WATER SUPPLY PUMPS

- WIDE RANGE
- UNIQUE FEATURES





SUBMERSIBLE 3" WATER SUPPLY PUMPS

The SQ pump is the basic model of the Grundfos 3" submersible pump range.

Unique features makes the SQ series very easy to install and operate, and ensures reliable water supply at all times.

SQ can be installed without the need of any additional control units.

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

- Domestic Water Supply
- Small water works
- Irrigation

The special features includes:

Soft start...

...to prevent water hammering and electrical disturbances

High starting torque...

...even at low supply voltage, the SQ delivers a reliable water supply

Over load protection...

...protects the motor against unstable voltage supply by reducing speed or stopping the pump

Dry running protection...

...stops and prevents the pump from damage in case of dry running

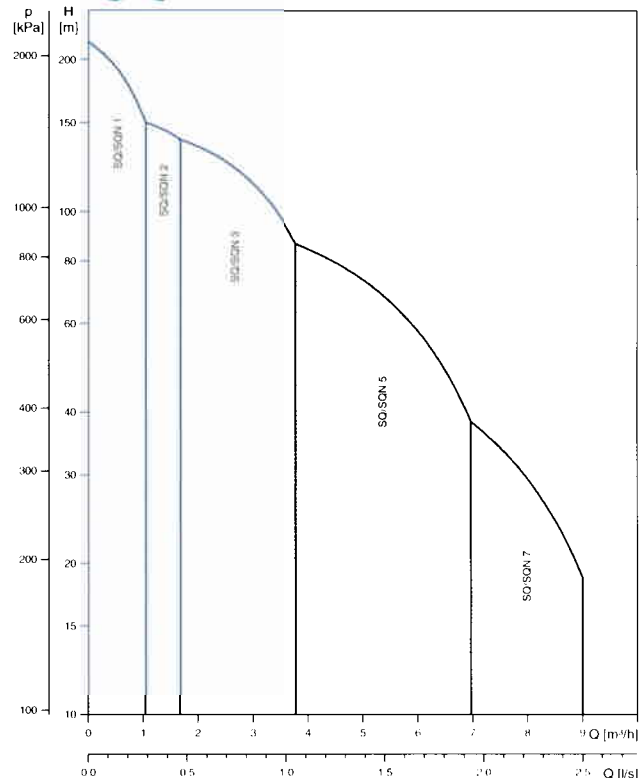
Automatic re-start...

...ensures a reliable water supply when ever possible



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

SQ/SQN - PERFORMANCE RANGE

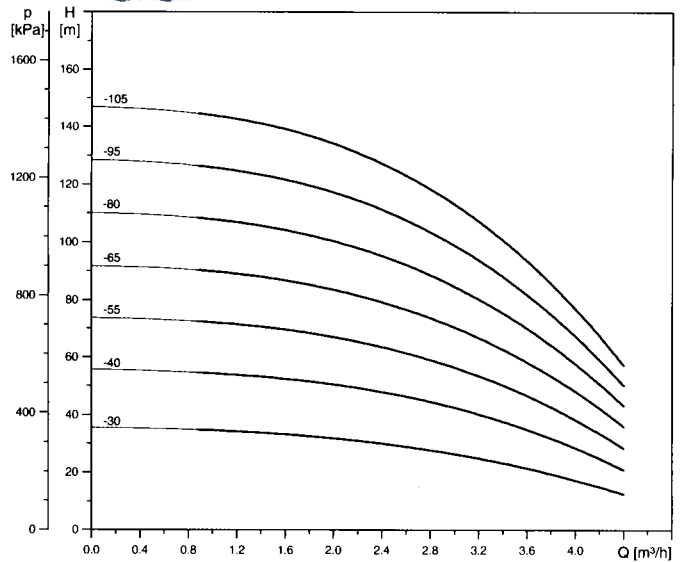


TECHNICAL INFORMATION

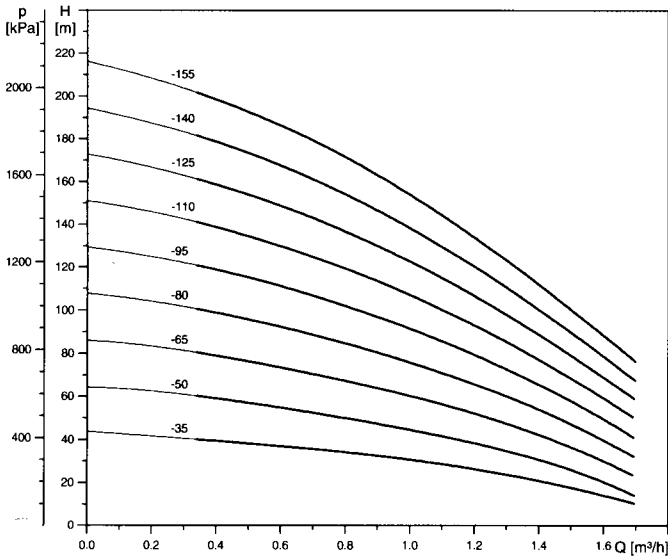
Performance range: Flow up to 9m³/h (SQ/SQN 7)
 Head up to 200 m (SQ/SQN 1)
Nominal voltage range: 1x200-230V
 1x100-115V
Frequency (of the voltage supply): 50/60Hz
Max. acceptable media temperature: 30°C (40°C)
Pump diameter: Ø74mm
Weight (min./max.): 4.7 - 6.4 kg
Thread connections: RP 1½ / RP 1½
Minimum 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.

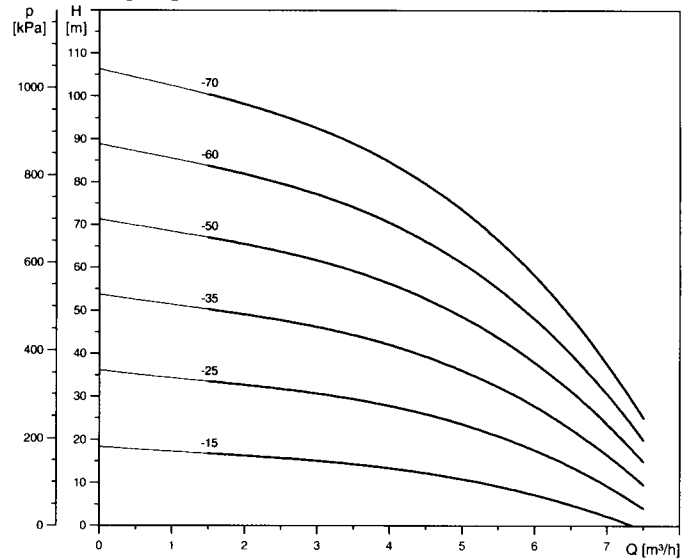
SQ/SQN 3 ISO 9906 Annex A



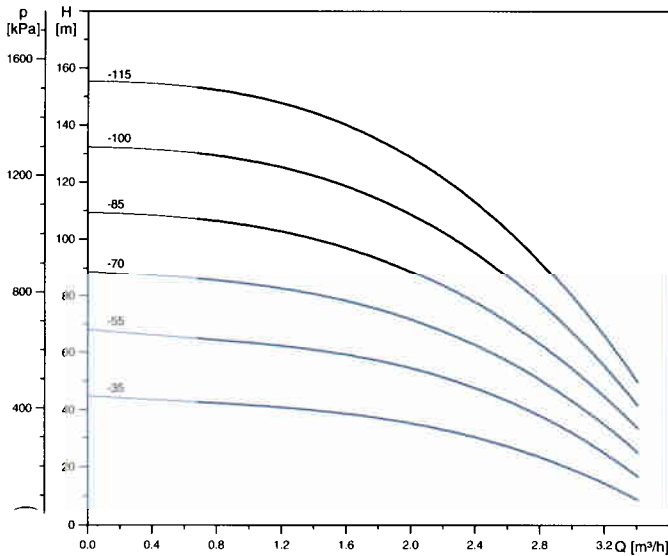
SQ/SQN 1 ISO 9906 Annex A



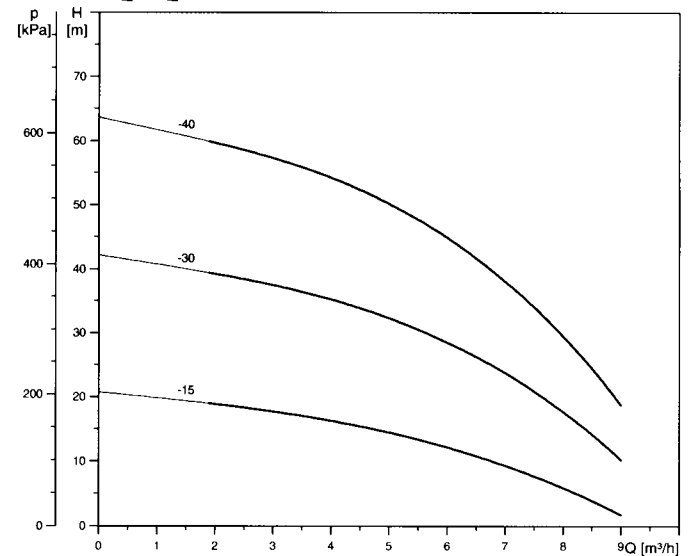
SQ/SQN 5 ISO 9906 Annex A



SQ/SQN 2 ISO 9906 Annex A



SQ/SQN 7 ISO 9906 Annex A



PRODUCT RANGE AND PERFORMANCE

Pump type	Power, pump [kW]	Flow rate Q [m³/h] / [l/s]													Max. head [m] (Q=0 m³/h)	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	1¼	745
SQ 1 - 50	0.44	57	45	26	-	-	-	-	-	-	-	-	-	-	64	2.8	3.2	1¼	745
SQ 1 - 65	0.58	76	60	37	-	-	-	-	-	-	-	-	-	-	86	3.7	4.3	1¼	772
SQ 1 - 80	0.73	96	76	47	-	-	-	-	-	-	-	-	-	-	108	4.4	5.1	1¼	826
SQ 1 - 95	0.87	115	91	58	-	-	-	-	-	-	-	-	-	-	129	5.4	6.2	1¼	826
SQ 1 - 110	1.03	135	107	68	-	-	-	-	-	-	-	-	-	-	151	6.2	7.1	1¼	853
SQ 1 - 125	1.20	154	123	79	-	-	-	-	-	-	-	-	-	-	173	7.8	9.0	1¼	943
SQ 1 - 140	1.37	173	138	90	-	-	-	-	-	-	-	-	-	-	194	8.9	10.2	1¼	943
SQ 1 - 155	1.55	193	154	100	-	-	-	-	-	-	-	-	-	-	216	10.2	10.9	1¼	970
SQ 2 - 35	0.45	43	42	39	35	29	19	-	-	-	-	-	-	-	45	3.2	3.7	1¼	745
SQ 2 - 55	0.65	66	63	60	54	45	32	-	-	-	-	-	-	-	68	4.1	4.7	1¼	745
SQ 2 - 70	0.87	87	84	79	72	60	43	-	-	-	-	-	-	-	89	5.4	6.2	1¼	772
SQ 2 - 85	0.98	108	105	99	89	74	54	-	-	-	-	-	-	-	109	6.8	7.8	1¼	862
SQ 2 - 100	1.30	131	128	120	109	91	67	-	-	-	-	-	-	-	132	8.4	9.7	1¼	862
SQ 2 - 115	1.50	154	150	142	129	108	79	-	-	-	-	-	-	-	155	9.9	11.1	1¼	889
SQ 3 - 30	0.44	-	-	34	32	30	26	22	-	-	-	-	-	-	36	3.2	3.7	1¼	745
SQ 3 - 40	0.63	-	-	53	50	47	42	36	-	-	-	-	-	-	56	4.0	4.6	1¼	745
SQ 3 - 55	0.83	-	-	70	67	63	56	48	-	-	-	-	-	-	74	5.1	5.9	1¼	772
SQ 3 - 65	1.02	-	-	87	83	78	70	60	-	-	-	-	-	-	92	6.2	7.1	1¼	826
SQ 3 - 80	1.23	-	-	105	100	94	85	73	-	-	-	-	-	-	110	7.9	9.1	1¼	862
SQ 3 - 95	1.43	-	-	123	117	109	99	85	-	-	-	-	-	-	129	9.2	10.6	1¼	889
SQ 3 - 105	1.63	-	-	140	134	125	113	97	-	-	-	-	-	-	147	10.6	-	1¼	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	48	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 1¼".

Length of pump: 826 mm