

PRODUCT RANGE AND PERFORMANCE

Pump type	Power, pump [HP]	Flow rate Q [US GPM]															Max. head [ft] (Q= 0 US GPM)	Full-load current I _{1/1} [A] 230V 200V		Pipe connection NPT	Length [mm]
		2	4	6	8	10	12	14	16	20	24	28	32	36							
		Head [ft]																			
5 SQ - 90	0.39	127	106	72	-	-	-	-	-	-	-	-	-	-	-	144	2.1	2.4	1"	745	
5 SQ - 140	0.60	190	155	106	-	-	-	-	-	-	-	-	-	-	-	211	2.8	3.2	1"	745	
5 SQ - 180	0.79	254	208	145	-	-	-	-	-	-	-	-	-	-	-	282	3.7	4.3	1"	772	
5 SQ - 230	1.00	319	262	184	-	-	-	-	-	-	-	-	-	-	-	354	4.4	5.1	1"	826	
5 SQ - 270	1.18	383	316	224	-	-	-	-	-	-	-	-	-	-	-	423	5.4	6.2	1"	826	
5 SQ - 320	1.40	448	370	263	-	-	-	-	-	-	-	-	-	-	-	495	6.2	7.1	1"	853	
5 SQ - 360	1.63	512	424	302	-	-	-	-	-	-	-	-	-	-	-	568	7.8	9.0	1"	943	
5 SQ - 410	1.86	577	478	342	-	-	-	-	-	-	-	-	-	-	-	637	8.9	10.2	1"	943	
5 SQ - 450	2.11	641	532	381	-	-	-	-	-	-	-	-	-	-	-	709	10.2	-	1"	970	
10 SQ - 110	0.61	142	138	131	121	105	81	-	-	-	-	-	-	-	-	147	3.2	3.7	1¼"	745	
10 SQ - 160	0.88	216	210	201	186	164	130	-	-	-	-	-	-	-	-	223	4.1	4.7	1¼"	745	
10 SQ - 200	1.18	286	278	265	245	215	173	-	-	-	-	-	-	-	-	291	5.4	6.2	1¼"	772	
10 SQ - 240	1.33	355	346	330	305	267	216	-	-	-	-	-	-	-	-	359	6.8	7.8	1¼"	862	
10 SQ - 290	1.77	431	422	403	373	328	266	-	-	-	-	-	-	-	-	434	8.4	9.7	1¼"	862	
10 SQ - 330	2.04	507	497	476	441	389	316	-	-	-	-	-	-	-	-	510	9.9	11.1	1¼"	889	
15 SQ - 70	0.60	-	-	111	107	101	92	82	70	-	-	-	-	-	-	117	3.2	3.7	1¼"	745	
15 SQ - 110	0.86	-	-	175	169	160	148	133	115	-	-	-	-	-	-	183	4.0	4.6	1¼"	745	
15 SQ - 150	1.13	-	-	232	224	212	197	176	150	-	-	-	-	-	-	242	5.1	5.9	1¼"	772	
15 SQ - 180	1.39	-	-	289	279	264	245	220	190	-	-	-	-	-	-	301	6.2	7.1	1¼"	826	
15 SQ - 220	1.67	-	-	347	335	318	295	265	230	-	-	-	-	-	-	361	7.9	9.1	1¼"	862	
15 SQ - 250	1.94	-	-	406	392	372	345	309	270	-	-	-	-	-	-	422	9.2	10.6	1¼"	889	
15 SQ - 290	2.22	-	-	464	448	425	394	354	300	-	-	-	-	-	-	482	10.6	-	1¼"	943	
22 SQ - 40	0.35	-	-	-	-	-	51	49	46	40	31	-	-	-	-	61	1.9	2.2	1½"	745	
22 SQ - 80	0.73	-	-	-	-	-	103	99	95	85	69	-	-	-	-	119	3.4	3.9	1½"	745	
22 SQ - 120	1.09	-	-	-	-	-	154	149	143	128	107	-	-	-	-	176	4.9	5.6	1½"	826	
22 SQ - 160	1.44	-	-	-	-	-	206	200	192	172	145	-	-	-	-	234	7.0	8.1	1½"	826	
22 SQ - 190	1.81	-	-	-	-	-	258	250	240	216	183	-	-	-	-	291	8.6	9.9	1½"	943	
22 SQ - 220	2.18	-	-	-	-	-	309	300	288	259	220	-	-	-	-	349	10.4	-	1½"	943	
30 SQ - 40	0.57	-	-	-	-	-	57	55	50	44	37	28	17	-	-	68	2.8	3.2	1½"	745	
30 SQ - 90	1.14	-	-	-	-	-	122	119	111	101	88	73	54	-	-	138	5.2	6.0	1½"	745	
30 SQ - 130	1.73	-	-	-	-	-	186	182	171	157	140	118	91	-	-	209	8.2	9.5	1½"	862	

Example of how to select a pump:

Required: Flow rate: 10 US GPM (38 LPM)

Head: 250 ft (76 m) => nearest higher value in the table is 264 ft (80 m).

Selected: Pump type: 15 SQ -180

Required pump power input: 1.39 HP.

Full load current: I_{1/1} = 6.2 A at 230 V.I_{1/1} = 7.1 A at 200 V.

Pipe connection: NPT 1 1/4".

Length of pump: 32 3/4" (826 mm)

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...

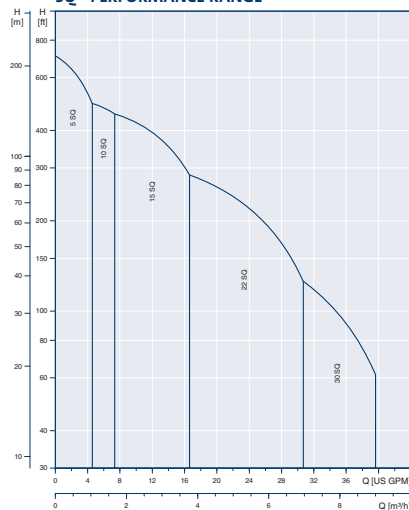
...stops and prevents the pump from damage in case of dry running

Automatic re-start...

...ensures a reliable water supply when ever possible



SQ - PERFORMANCE RANGE

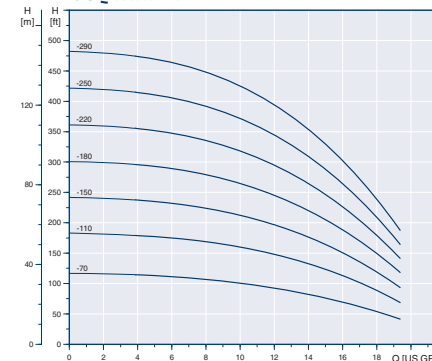


TECHNICAL INFORMATION

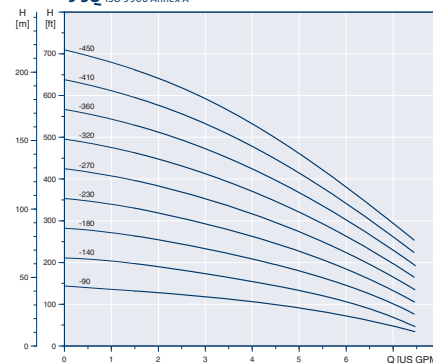
Performance range:	Flow up to 40 GMP (151 LPM) (30 SQ/SQE) Head up to 709 ft (216 m) (5 SQ/SQE)
Nominal voltage range:	1x200-230V 1x100-115V
Frequency (of the voltage supply):	50/60Hz
Max. acceptable media temperature:	104°F / 40°C
Pump diameter:	2.9" / Ø74mm
Weight (min./max.):	10.4 - 14.1 lbs (4.7 - 6.4 Kg)
Thread connections:	NPT 1" / NPT 1½" / NPT 1½"
Minimum well diameter:	3" / Ø76mm

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

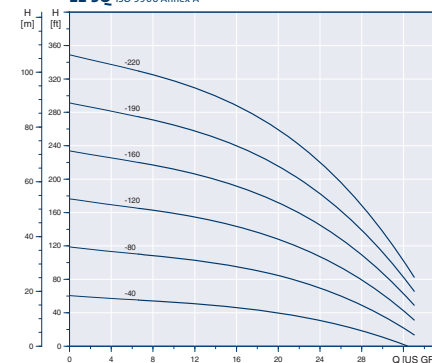
15 SQ ISO 9906 Annex A



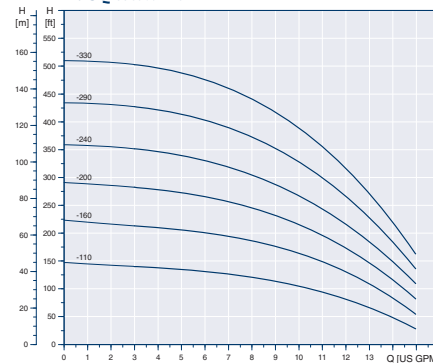
5 SQ ISO 9906 Annex A



22 SQ ISO 9906 Annex A



10 SQ ISO 9906 Annex A



30 SQ ISO 9906 Annex A

