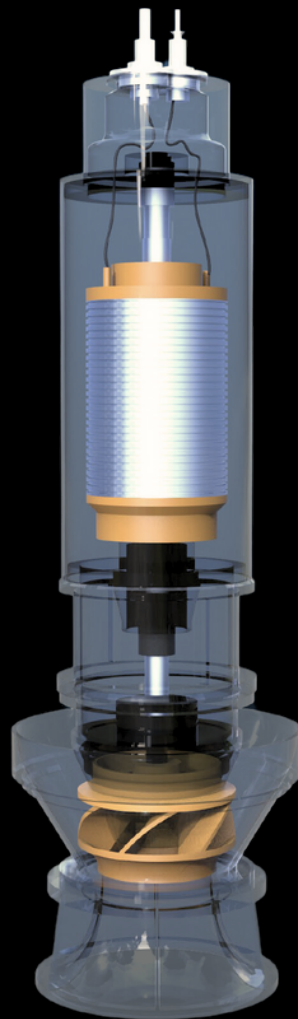




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## QW PUMP SPECIFICATIONS

ITEM	TYPE	OUTLET DIAMETER	FLOW RATE M3/H	HEAD M	ROTATING SPEED R/MIN	POWER KW	EFFICIENCY %	WEIGHT KG
1	80QW50-60-22	80	50	60	2900	22	51.0	302
2	100QW70-22-11	100	70	22	1450	11	69.4	278
3	100QW50-35-11	100	50	35	1450	11	67.2	279
4	100QW87-28-15	100	87	28	1450	15	70.2	360
5	100QW100-60-30	100	100	60	2900	30	73.2	430
6	150QW100-15-11	150	100	15	1450	11	71.8	280
7	150QW200-10-11	150	200	10	1450	11	76.2	282
8	150QW140-18-15	150	140	18	1450	15	74.3	360
9	150QW70-40-18.5	150	70	40	1450	18.5	70.8	480
10	150QW130-30-22	150	130	30	1450	22	74.2	520
11	150QW100-40-30	150	100	40	1450	30	77.2	880
12	150QW200-22-30	150	200	22	980	30	78.1	900
13	150QW200-30-30	150	200	30	980	30	77.5	900
14	150QW160-40-37	150	160	40	980	37	75.4	1150
15	150QW150-60-55	150	150	60	980	55	74.8	1260
16	200QW360-6-11	200	360	6	1450	11	77.2	290
17	200QW400-7-15	200	400	7	1450	15	78.2	380
18	200QW250-15-18.5	200	250	15	1450	18.5	77.3	490
19	200QW300-10-22	200	300	10	980	22	78.6	535
20	200QW400-10-22	200	400	10	980	22	77.8	560
21	200QW300-22-37	200	300	22	980	37	78.3	1100
22	200QW450-22-45	200	450	22	980	45	80.5	1400
23	200QW250-40-55	200	250	40	1450	55	74.4	1380
24	200QW250-50-55	200	250	50	1450	55	74.2	1420
25	200QW400-34-55	200	400	34	980	55	75.1	1480
26	200QW250-60-75	200	250	60	1450	75	77.2	1480
27	200QW350-50-75	200	350	50	980	75	78.3	1600
28	200QW350-60-90	200	350	60	1450	90	79.3	1550
29	250QW600-7-22	250	600	7	980	22	80.1	820
30	250QW250-17-22	250	250	17	980	22	71.0	820
31	250QW500-10-30	250	500	10	980	30	78.2	900
32	250QW400-15-30	250	400	15	980	30	77.8	900
33	250QW600-15-45	250	600	15	980	45	79.6	1456
34	250QW650-22-75	250	650	22	980	75	80.4	1516
35	250QW650-30-90	250	650	30	980	90	79.5	1800
36	250QW600-40-110	250	600	40	740	110	81.0	2000

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ITEM	TYPE	OUTLET DIAMETER	FLOW RATE M <sup>3</sup> /H	HEAD M	ROTATING SPEED R/MIN	POWER KW	EFFICIENCY %	WEIGHT KG
37	250QW600-50-132	250	600	50	740	132	79.3	2450
38	300QW720-10-37	300	720	10	980	37	79.6	1180
39	300QW900-8-37	300	900	8	980	37	80.3	1150
40	300QW800-15-55	300	800	15	980	55	81.3	1350
41	300QW500-60-132	300	500	60	1450	132	75.2	1980
42	300QW700-60-185	300	700	60	1450	185	78.3	2970
43	350QW1440-5.5-37	350	1440	5.5	980	37	77.5	1250
44	350QW1100-10-45	350	1100	10	980	45	88.1	1500
45	350QW120-018-90	350	1200	18	980	90	82.0	2000
46	350QW1000-28-132	350	1000	28	740	132	80.7	2830
47	350QW1000-30-160	350	1000	30	740	160	80.8	3150
48	350QW1200-40-200	350	1200	40	740	200	80.9	3920
49	350QW1000-60-250	350	1000	60	980	250	80.0	4610
50	400QW1250-5-30	400	1250	5	980	30	71.8	960
51	400QW1692-7-55	400	1692	7	740	55	77.9	1350
52	400QW2016-7-75	400	2016	7	740	75	85.8	1700
53	400QW1500-10-75	400	1500	10	980	75	82.5	1670
54	400QW1700-12-132	400	1700	12	740	132	82.4	2670
55	400QW1700-22-160	400	1700	22	740	160	80.3	3200
56	400QW1500-26-160	400	1500	26	740	160	80.5	3210
57	400QW1700-30-200	400	1700	30	740	200	82.5	3850
58	400QW1600-34-250	400	1600	34	740	250	83.3	4280
59	400QW1800-40-280	400	1800	40	980	280	83.5	4730
60	400QW1300-50-280	400	1300	50	980	280	79.3	4780
61	500QW2200-10-110	500	2200	10	980	110	82.5	2160
62	500QW2600-15-160	500	2600	15	740	160	82.8	3214
63	500QW2400-22-220	500	2400	22	740	220	83.3	4280
64	500QW2400-30-300	500	2400	30	740	300	84.2	5120
65	500QW2400-40-400	500	2400	40	740	400	83.9	5950
66	550QW3500-7-110	550	3500	7	740	110	82.8	2300
67	550QW396-105-220	550	3960	15	740	220	83.5	4400
68	550QW4000-22-400	550	4000	22	740	400	85.1	6010
69	550QW4000-30-450	550	4000	30	740	450	85.1	6280
70	600QW3800-10-160	600	3800	10	740	160	84.1	3000
71	600QW5800-10-250	600	5800	10	740	250	85.0	4050
72	600QW6000-15-355	600	6000	15	740	355	82.3	5530

# SUBMERSIBLE | QH PUMP SPECIFICATIONS

ITEM	TYPE	OUTLET DIAMETER	FLOW RATE M3/H	HEAD M	ROTATING SPEED R/MIN	SHAFT POWER KW	MOTOR POWER KW	EFFICIENCY %	WEIGHT KG
1	350QH1100-10-45	350	1100	10	980	37.2	45	80.6	1200
2	400QH1400-11-55	400	1400	11	980	51.8	55	81.0	1350
3	350QH1000-15-75	350	1000	15	980	54.1	75	75.5	1750
4	400QH1500-10-75	400	1500	10	980	54.1	75	75.5	1750
5	400QH1500-15-90	400	1500	15	980	77.4	90	79.1	2000
6	450QH2200-10-90	450	2200	10	980	73.4	90	81.6	2000
7	350QH1000-28-110	350	1000	28	740	94.5	110	80.7	2200
8	400QH1200-20-110	400	1200	20	980	80.8	110	80.8	2200
9	500QH2000-15-132	500	2000	15	740	99.5	132	82.1	2520
10	700QH2500-11-132	700	2500	11	740	90.0	132	83.2	2520
11	600QH3000-10-132	600	3000	10	740	97.1	132	84.1	2520
12	350QH1000-36-160	350	1000	36	980	122.3	160	80.1	2880
13	400QH1800-20-160	400	1800	20	980	118.4	160	82.8	2880
14	600QH3300-12-160	600	3300	12	740	128.0	160	84.2	2880
15	350QH1100-40-185	350	1100	40	980	150.7	185	79.5	3420
16	400QH1500-30-185	400	1500	30	980	155.9	185	78.6	3420
17	600QH3000-16-185	600	3000	16	740	156.0	185	83.8	3420
18	500QH2400-22-200	500	2400	22	980	173.6	200	82.8	3870
19	700QH5000-12-250	700	5000	12	740	190.6	250	85.7	4690
20	400QH1800-24-185	400	1800	24	980	143.3	185	82.1	3250
21	700QH4000-20-315	700	4000	20	740	260.5	315	83.6	5700
22	400QH1080-50-220	400	1080	50	1450	187.3	220	78.5	3160
23	400QH1080-60-280			60		227.3	280	77.6	3560
24	500QH1500-35-220	500	1500	35	980	184.2	220	77.6	5020
25	500QH1500-40-250			40		211.8	250	77.1	5230
26	500QH1500-50-315			50		266.9	315	76.5	5890
27	500QH1500-60-355			60		323.2	355	75.8	6100
28	500QH2000-30-250	500	200	30	980	197.3	250	82.8	5230
29	500QH2000-35-280			35		231.3	280	82.4	5300
30	500QH2000-40-315			40		266.2	315	81.8	5890
31	500QH2000-50-400			50		335.7	400	81.1	6620
32	500QH2000-60-500			60		412.4	500	79.2	6790

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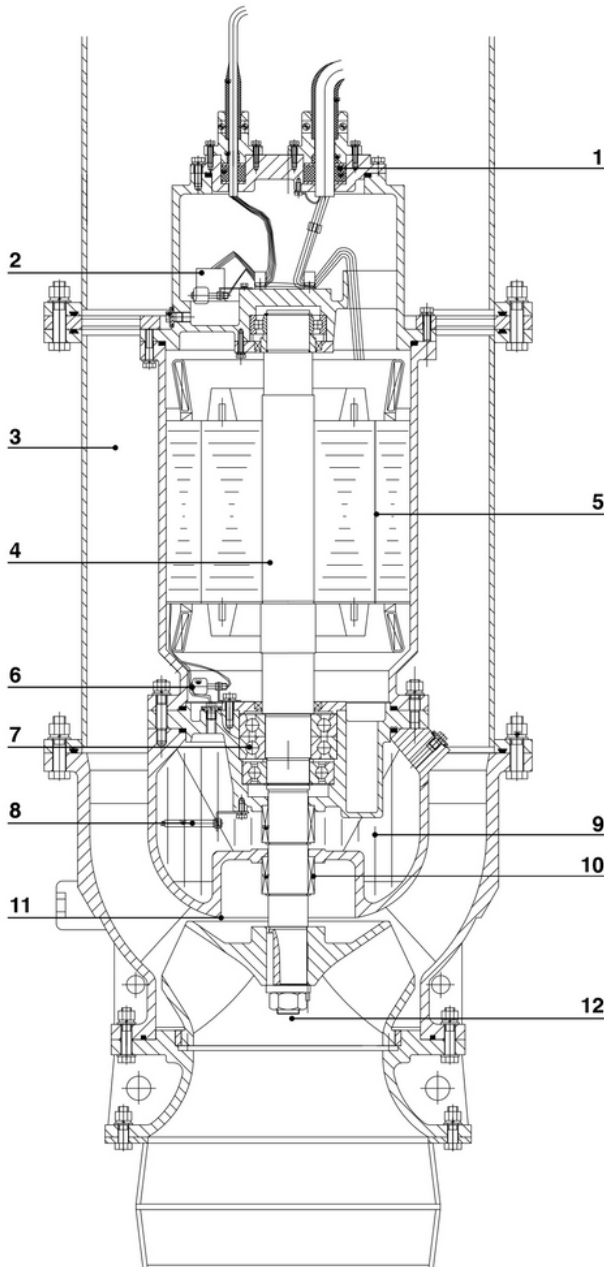
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ITEM	TYPE	OUTLET DIAMETER	FLOW RATE M3/H	HEAD M	ROTATING SPEED R/MIN	SHAFT POWER KW	MOTOR POWER KW	EFFICIENCY %	WEIGHT KG
33	600QH2880-20-220	600	2880	20	980	185.6	220	84.5	5150
34	600QH2880-24-280			24		224.0	280	84.0	5300
35	600QH2880-30-355			30		281.3	355	83.6	5530
36	600QH2880-35-400			35		331.0	400	82.9	6620
37	600QH2880-40-450			40		380.1	450	82.5	6710
38	600QH2880-50-560			50		479.2	560	81.8	7380
39	600QH2880-60-710			60		581.5	710	80.9	8910
40	700QH4000-16-250			700		4000	16	740	203.3
41	700QH4000-20-315	20	255.6		315		85.2		8500
42	700QH4000-24-400	24	308.2		400		84.8		10540
43	700QH4000-30-500	700	4000	30	740	387.5	500	84.3	11310
44	700QH4000-35-560			35		454.8	560	83.8	11450
45	700QH4000-40-630			40		522.8	630	83.3	11740
46	900QH6000-9-220	900	6000	9	590	171.7	220	85.6	7060
47	900QH6000-12-280			12		230.0	280	85.2	7270
48	900QH6000-16-400			16		308.2	400	84.8	7990
49	900QH6000-20-450			20		388.4	450	84.1	8520
50	900QH6000-24-560			24		467.8	560	83.8	8880
51	900QH6000--S0-710			30		586.8	710	83.5	10150
52	1000QH8000-9-280	1000	8000	9	590	227.6	280	86.1	7270
53	1000QH8000-12-400			12		304.9	400	85.7	8000
54	1000QH8000-16-500			16		408.5	500	85.3	8600
55	1000QH8000-20-630			20		513.0	630	84.9	9860
56	1200QH10000-9-355	1200	10000	9	490	279.7	355	87.0	9060
57	1200QH10000-12-450			12		377.2	450	86.6	11000
58	1200QH10000-16-630			16		505.3	630	86.2	12800
59	1200QH12000-9-450	1200	12000	9	490	335.6	450	87.6	11000
60	1200QH12000-12-560			12		450.6	560	87.0	12500
61	1200QH12000-16-710			16		604.9	710	86.4	17000



# SUBMERSIBLE

## DETAILED DESIGN OF QW SUBMERSIBLE PUMP



**1. CABLE SEAL** – A special sheath and multiple O Rings are compressed around the cable to prevent ingress of water into the cable chamber.

**2. CABLE CHAMBER WATER SENSOR** – A moisture sensor will detect any water in the motor cable chamber and shut down the pump.

**3. COOLING** – Pumped water continually flows past the motor to maintain the motor temperature.

**4. SHAFT** – A single shaft is employed between the motor and pump. The shaft can be manufactured in stainless steel for added life.

**5. MOTOR** – High efficiency squirrel cage induction motors are specially designed for the submersible pump. The motor has Class F insulation with a temperature rating of 155C. They can be designed for VSD operation.

**6. MOTOR WATER SENSOR** – A moisture sensor will detect any water in the motor chamber and shut down the pump.

**7. BEARINGS** – There are 3 roller bearings which are designed to carry the axial and radial loads.

**8. VISCOSITY SENSOR** – A viscosity sensor will detect if any moisture has entered the bearing chamber. An alarm will be sent to the main panel.

**9. OIL CHAMBER** – Lubricates the three shaft bearings. It also has a viscosity sensor which detects any moisture that enters the chamber and sends an alarm.

**10. MECHANICAL SEALS** – There are three seals in total. Two seals are placed back to back between the impeller and the oil chamber. The third seal is between the oil chamber and the electric motor.

**11. WEAR RING** – Mounted behind the impeller it can be easily replaced during routine maintenance.

**12. IMPELLER** – Designed for high efficiency and is dynamically balanced. Standard material is cast iron with optional stainless steel or bronze.

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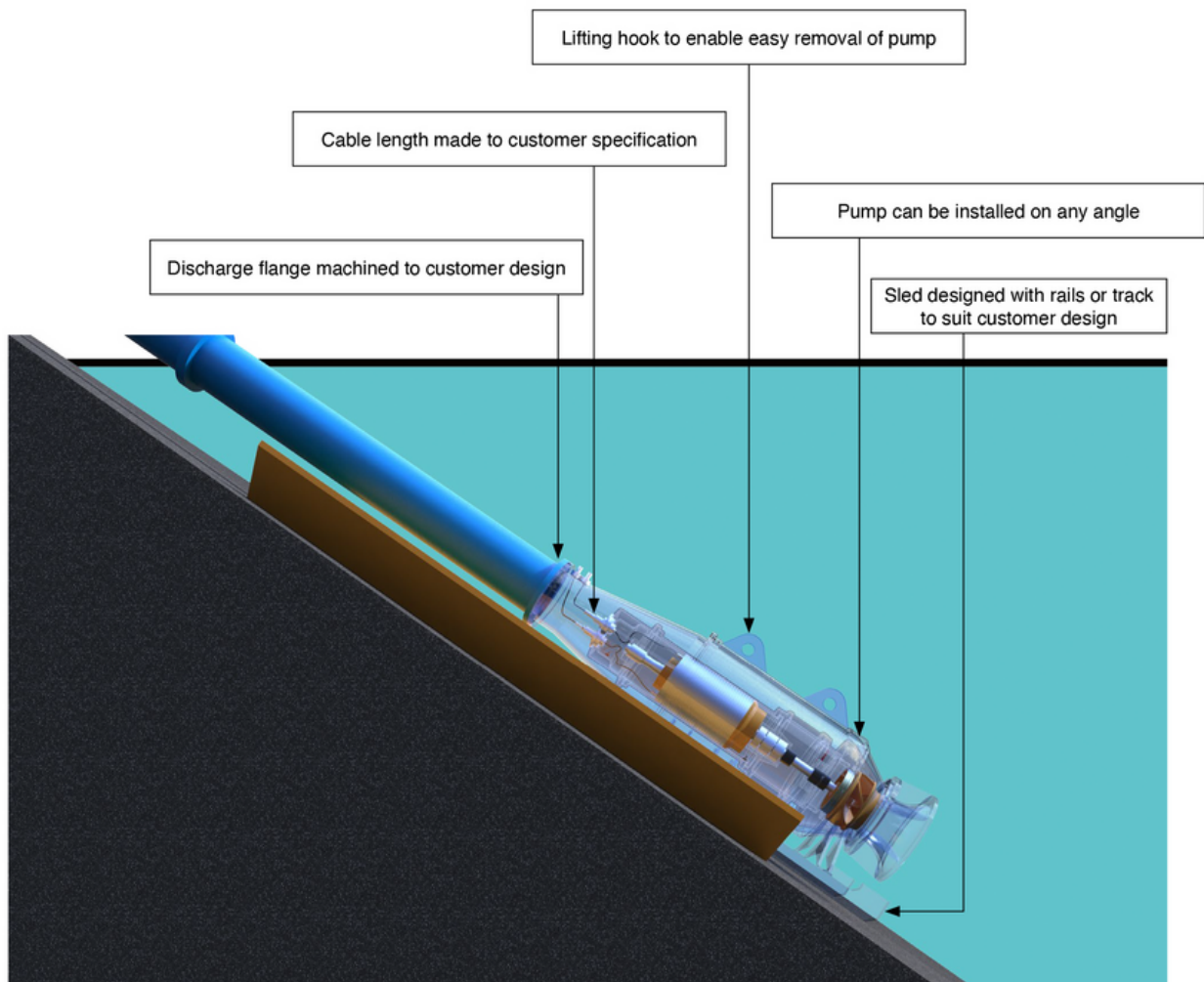


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# SUBMERSIBLE

## TYPICAL PUMP INSTALLATION - SLED TYPE ON AN INCLINE

This is typically used to install a submersible pump down a river bank or other sloping surface. The pump is fitted with a discharge flange to enable the outlet pipe to be easily bolted and unbolted from the pump. This allows easy removal of the pump for maintenance.



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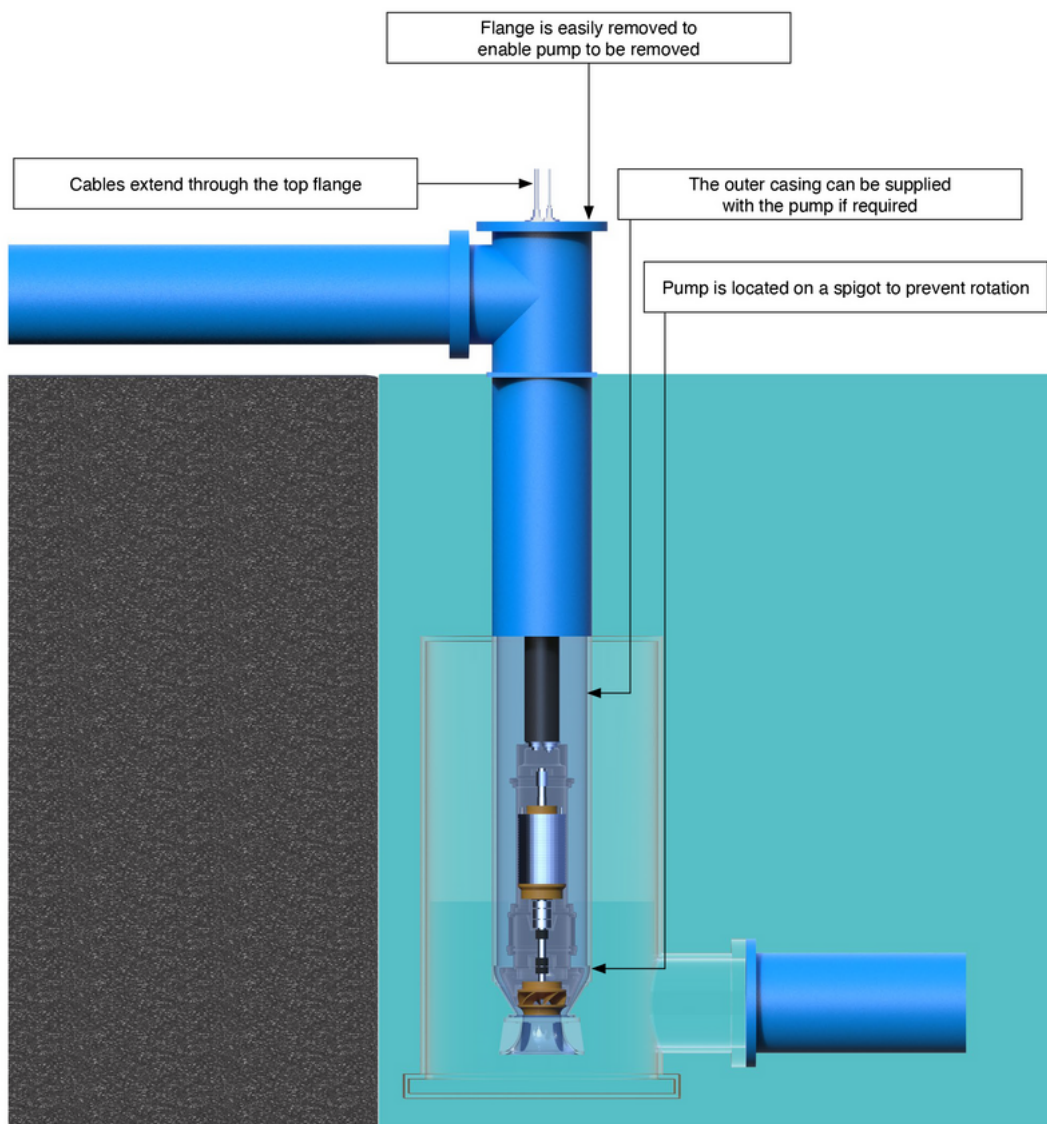


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# SUBMERSIBLE

## TYPICAL PUMP INSTALLATION - VERTICAL IN A WELL

This design is most suited to pumping water from a pit or where the pump discharge needs to be vertical due to space or other limitations. It can also be used where access to a river or creek is limited. An inlet channel or pipe feeds the vertical well where the pump can be installed.



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