

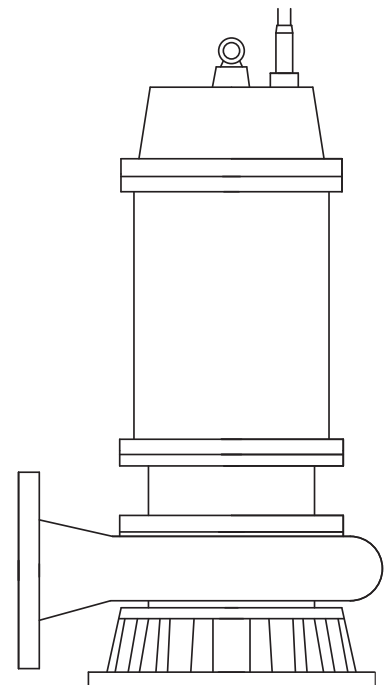
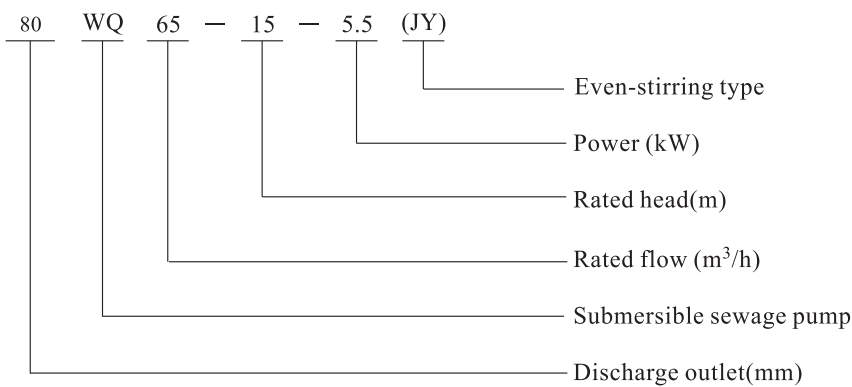
Submersible Sewage Pump WQ(JY)

Applications

- Construction sites
- Excavations
- Tunnels
- Fish ponds
- Drainage pits

Working conditions

- 50Hz,380V,3PH
- Medium temperature < 40, PH value is 4-10
medium density < 1200kg/m³, solid & liquid ratio < 2%
- The pump is not suitable for strongly corrosion liquid or strongly corrosion solid.
- The solid shall not exceed the max. allowed solid diameter



WQ

Submersible Sewage Pump WQ(JY)

Structure

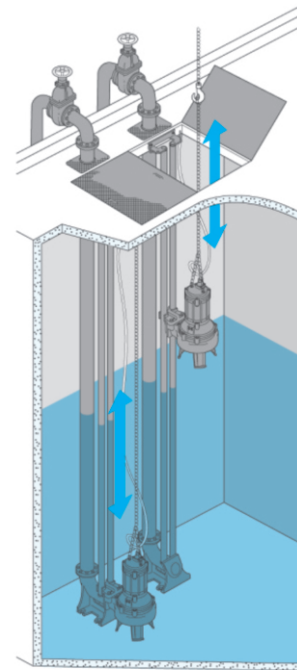
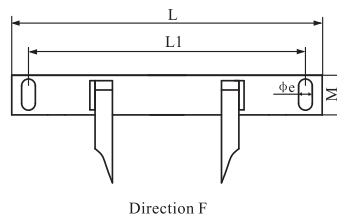
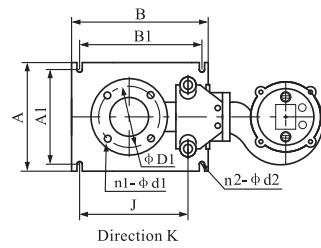
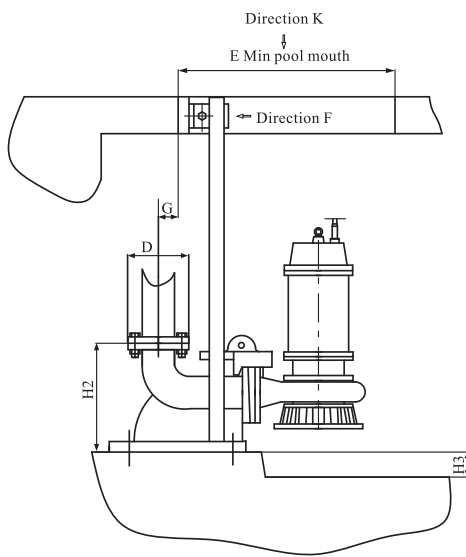
- Carefully selection and matching of the pump body and impeller, the flow through with good performance, high efficiency, flat power curve, not easy to overload. Impeller is balance and precise with less vibration and stable rotation.
- Motor: Specially designed submersible motor. Insulation class: F, cooling performance is good, long insulation service life.
 - Hydrocooling: The motor is cooled by the medium or outside liquid. The minimum immersion depth should be at least immerse 2/3 of the stator shell to make sure the pump runs safely.
 - Shaft seal: Two or three sets of mechanical seal work in series. One seal separate medium from the oil chamber. Other two seals separate oil from the motor.
 - Oil chamber: There is suitable oil in the oil chamber, there are two mechanical seal, oil chamber is separate medium from the motor. If the first mechanical seal is leaked, there is oil in oil chamber to prevent liquid from going to the motor. And the two separate mechanical seals can be lubricated and cooled, it make mechanical seal work stably. and, it will take away some heat caused by bottom bearing and motor.
 - Bearing: The bottom bearing sets forms the stably support for shaft. According to the radial force, axial force and the load, the bottom bearing can be formed with two or three kinds of different bearings, to ensure pump work stable and service long life.
 - Cable and mechanical seal:
 1. The cable is soft rubber cable which can resist sewage. It is designed according to ambient temperature 40 degree centigrade and motor full load working conditions. When pump is working, keep motor working at not full load or ambient temperature below 40 degree, pumps can work longer.
 2. There is seal between cable rubber cover and motor, it can prevent medium leak to motor cabinet.
 3. Cable slot and cables are rubber vulcanization, if rubber cover is broken, it can prevent medium leak to motor cabinet also.
 - Motor shell: Base, bearing seat, motor cover composed the motor shell. There are seals at the part joint. Every pump is water pressure tested to ensure the seal.
 - Safe protection in pump(Earthed professional power supply controlled cabinet):
 1. Oil water detector, it is installed in the oil chamber, check the leakage of the first mechanical seal(in the medium), when the medium leaked to oil chamber to some amount, it will alarm.
 2. Leaking protector: It is installed in the motor cabinet, detect the second mechanical seal leak, when oil or oil water mixture go into the motor, water in detector will alarm and stop pump.
 3. Thermal sensor: It is installed in the windings of motor stator, if motor overload for long time, the temperature of windings will increase(or other reason cause temperature rise) to some amount, it will alarm and stop pump.
 - Outer control system: The user shall use the professional control cabinet to control and protect pump. When users use their own control cabinet, please contact us to instruct them to install protection controller.
 - Special hand lift for easy movement. It is prohibited to pump/move pump by the cable, it will loose the seal between cable and motor cover which will cause leakage. Fix cable on the hand lift also prohibited to move pump with cable.
 - Performance curve and main technical data: The performance curve show the recommended pump running scope. When the medium changed, please ensure the shaft power should be within the rated motor power range. When overload, motor will burn.

Submersible Sewage Pump WQ(JY)

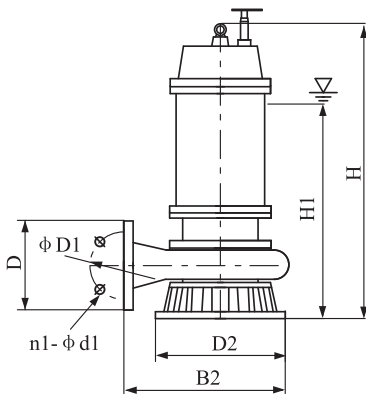
Installation

For WQ, JYWQ pumps, there is auto coupling device installation (Z), hard pipe movable installation(Y), soft pipe movable installation(R)

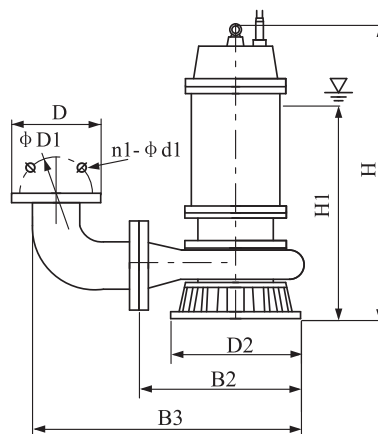
Fixed auto coupling device installation



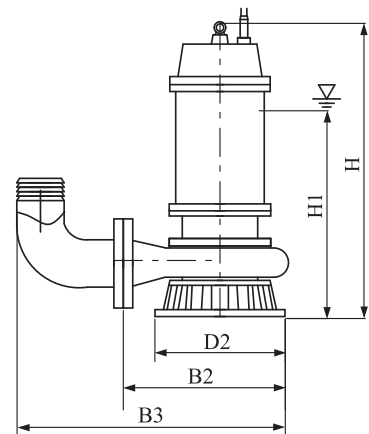
Movable installation



Hard pipe movable installation



Hard pipe movable installation with flange joint



Soft pipe movable installation

Submersible Sewage Pump — WQ(JY)

Coupling device dimensions

Measure:mm

No.	Model	Flange connection size PN6			Coupling base dimensions					G	H ₂	H ₃	L	L ₁	m	Φe	E
		D	D1	n1-Φd1	A	A1	B	B1	n2-Φd2								
1	50WQ(JY)	140	110	4-Φ14	197	168	208	130	4-Φ16	90	250	160	265	220	50	13	550×550
2	65WQ(JY)	160	130	4-Φ14	225	190	235	155	4-Φ16	130	265	165	280	235	50	13	650×600
3	80WQ(JY)	190	150	4-Φ18	255	220	225	153	4-Φ18	165	285	165	315	260	50	13	650×600
4	100WQ(JY)	210	170	4-Φ18	293	265	258	175	4-Φ18	175	305	185	410	315	60	15	750×650
5	150WQ(JY)	265	225	8-Φ18	400	300	410	300	4-Φ18	190	480	200	410	260	60	15	1000×800
6	200WQ(JY)	320	280	8-Φ18	400	300	450	350	4-Φ18	230	550	200	410	260	60	15	1300×900
7	250WQ(JY)	375	335	12-Φ18	460	370	560	430	4-Φ24	230	630	200	410	260	60	15	1600×1300
8	300WQ(JY)	440	395	12-Φ22	420	340	510	390	4-Φ24	375	650	250	700	615	150	20	1600×1300
9	350WQ(JY)	490	445	12-Φ22	500	420	520	420	4-Φ24	390	700	250	700	615	150	24	1600×1300

Relevant dimensions

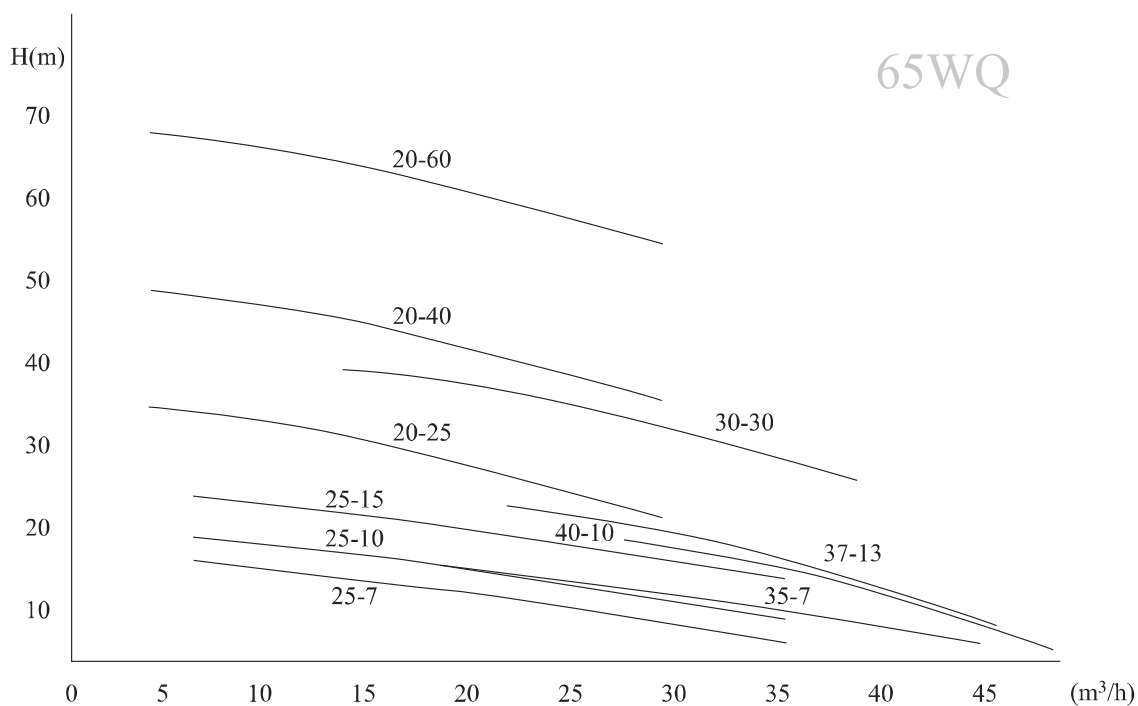
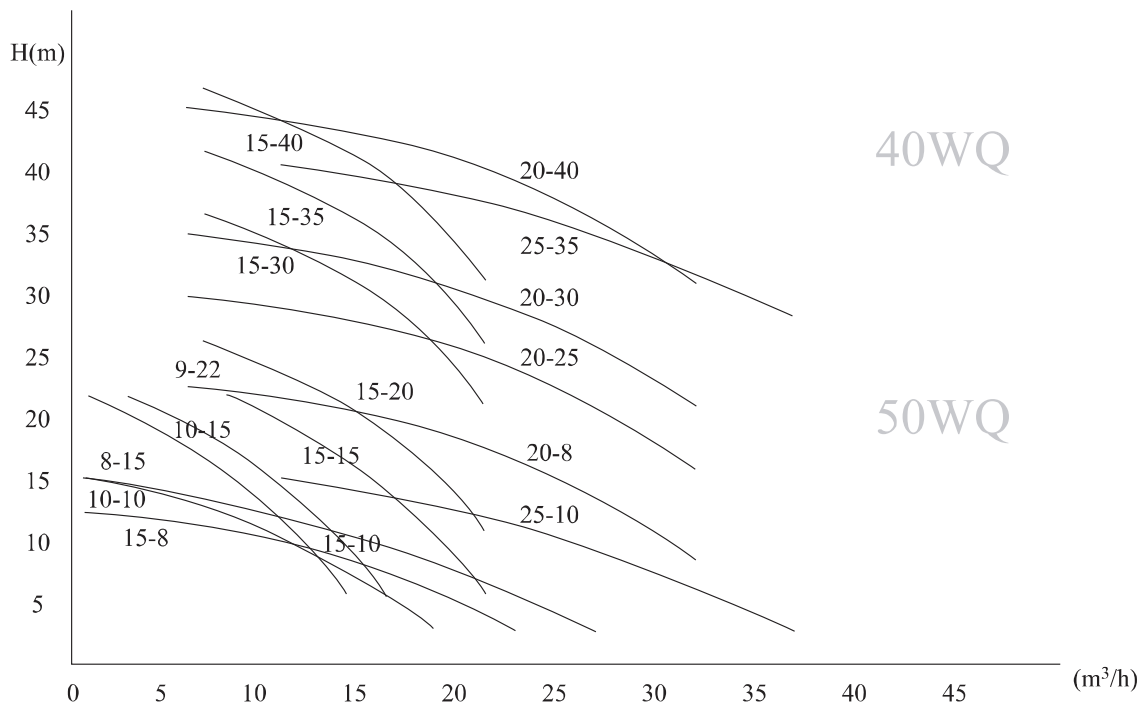
Measure:mm(Except inch)

Item	Diameter										
	DN50	DN65	DN80	DN100	DN150	DN200	DN250	DN300	DN350		
Guide rod tap pipe/ Seamless steel pipe	1 " /32×3.5			1.5 " /48×3.5					2 " /60×5		
Guide rod length	Pool depth-30				Pool depth -390	Pool depth -440	Pool depth -450	Pool depth -480			
Quantity and specification of expansion bolt	2-M12×150			3-M12×150				3-M16×150			
Quantity and specification of foundation bolt	4-M16×250					4-M20×300					
footer bolt hole size	80×80×300					100×100×350					
Dia. of rubber pipe	2 " /50	2.5" /65	3" /80	4" /100	6" /150	8" /200	10" /250	12" /300	14" /350		



Submersible Sewage Pump WQ(JY)

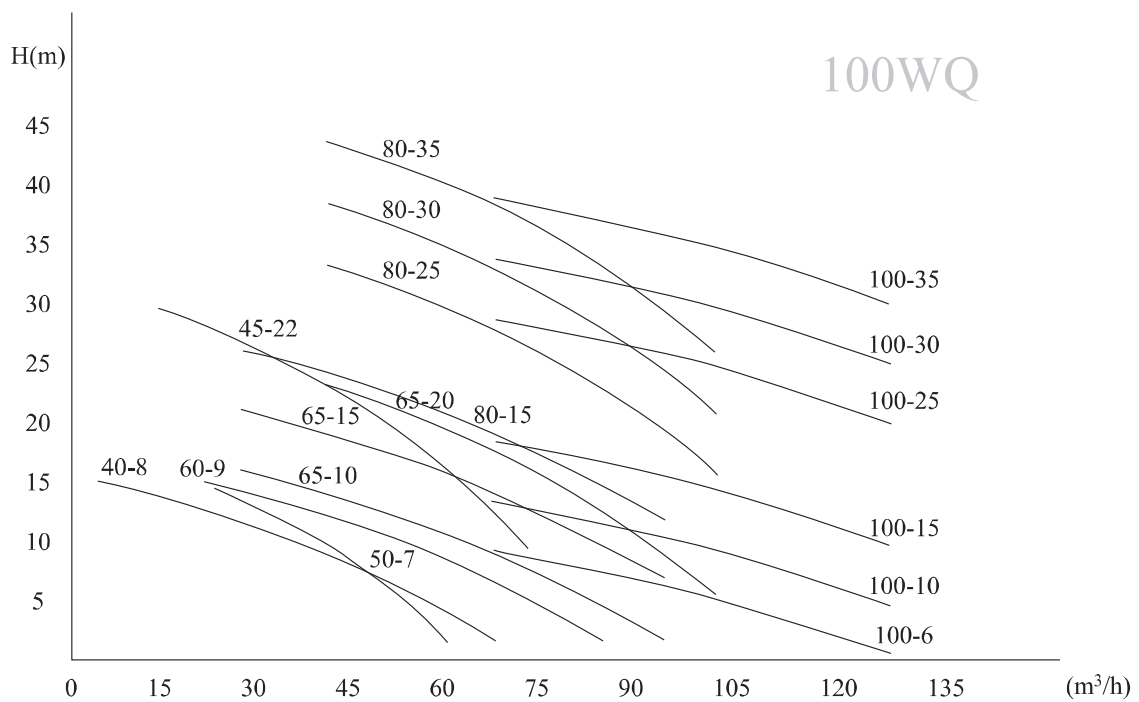
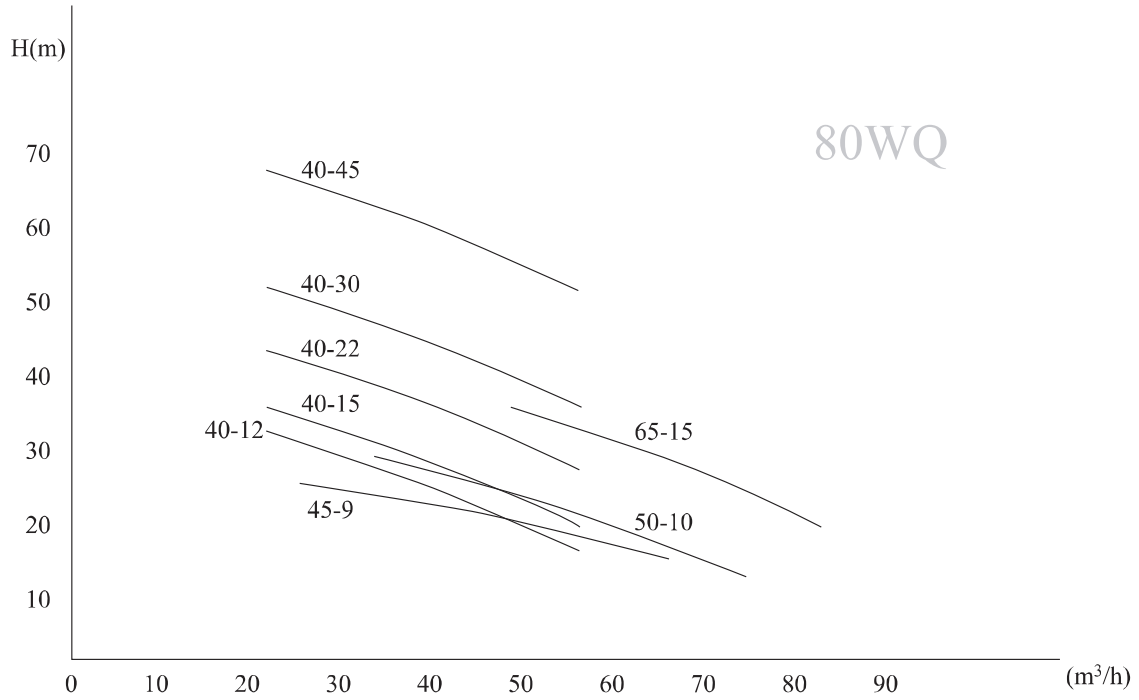
Performance curve





Submersible Sewage Pump WQ(JY)

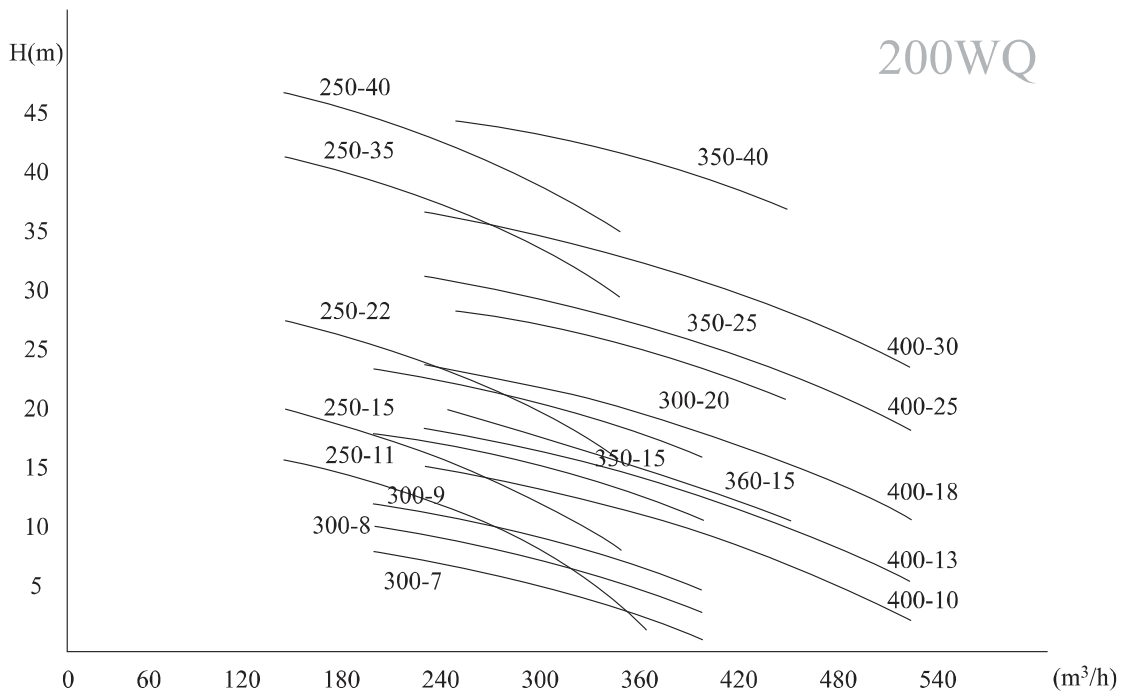
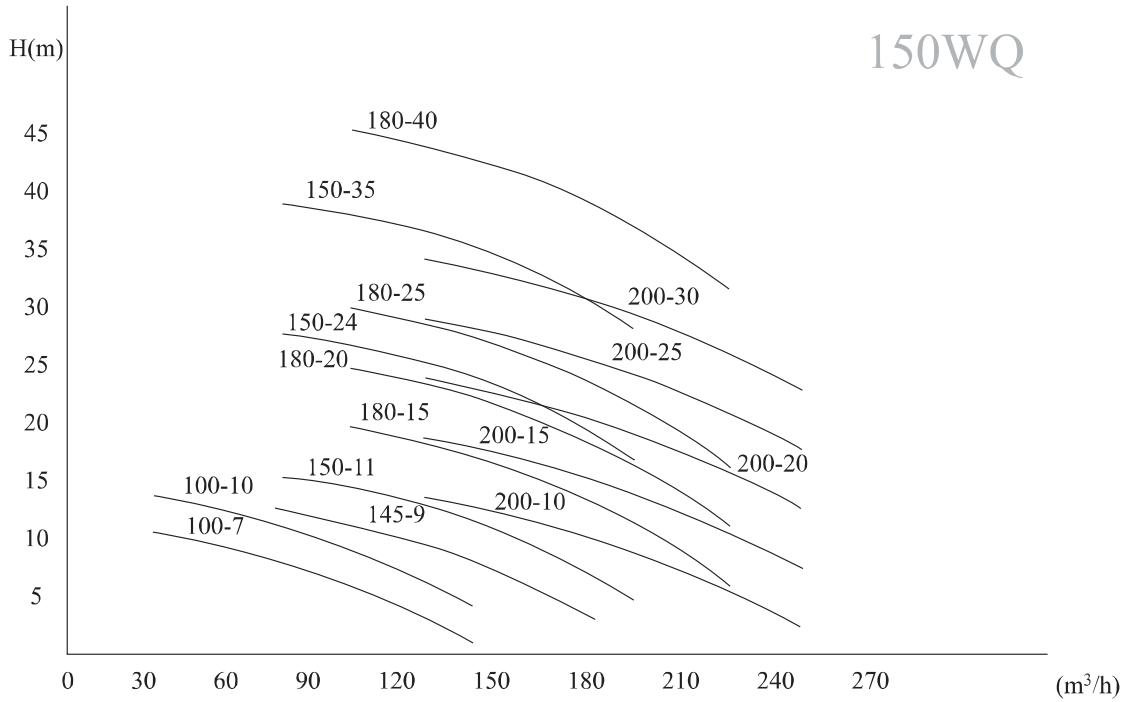
Performance curve





Submersible Sewage Pump WQ(JY)

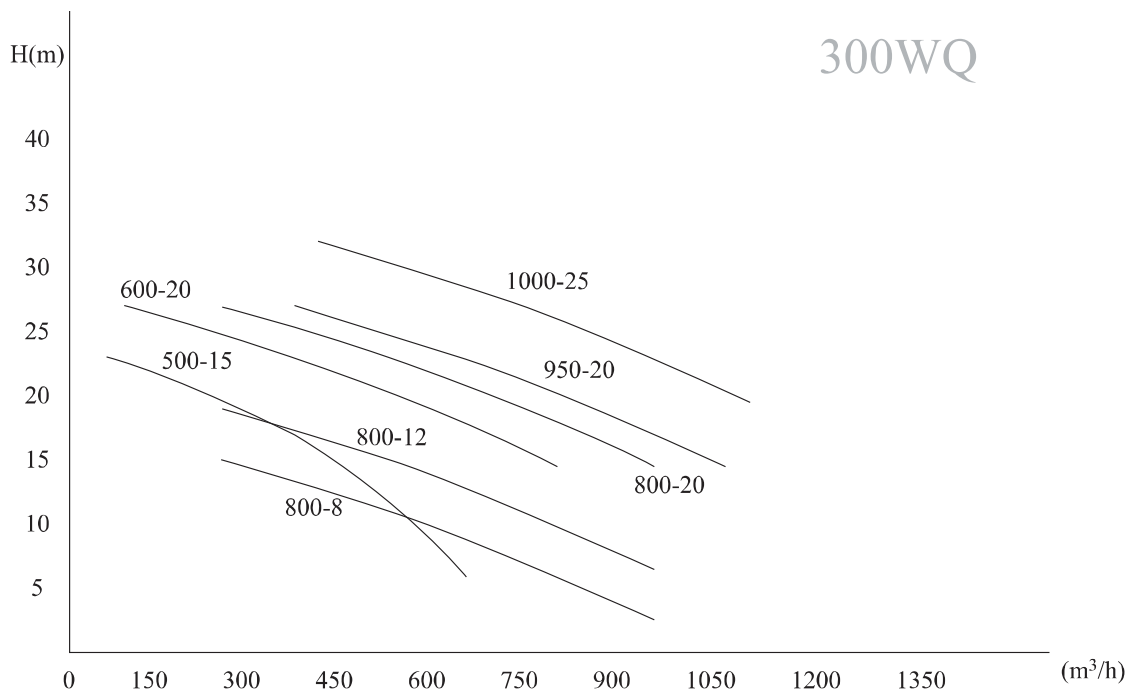
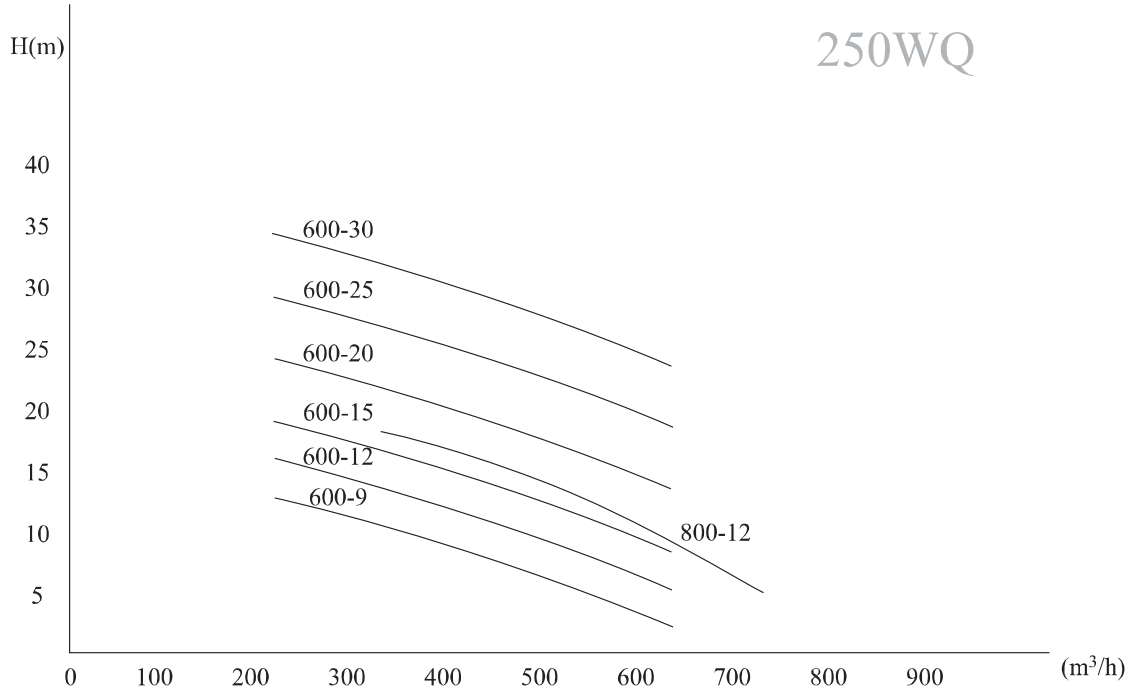
Performance curve





Submersible Sewage Pump WQ(JY)

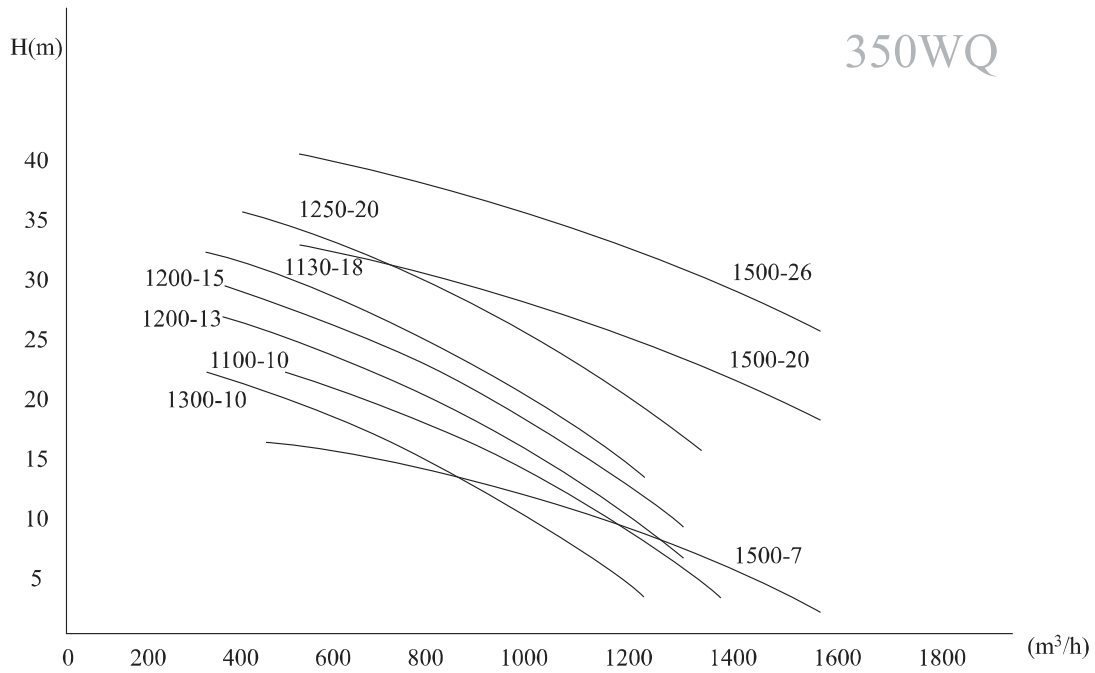
Performance curve





Submersible Sewage Pump WQ(JY)

Performance curve



Submersible Sewage Pump — WQ(JY)

Technical data and dimensions

Model	Q	H	Speed	Power	Rated current	Max. dia. of passing solid	Dimensions(mm)											Weight
	(m ³ /h)	(m)	(rpm)	(kW)	(A)	(mm)	H	H*	H1	H1*	B3	B2	D2	d	D	D1	n1-φd1	(kg)
40WQ10-10-0.75(JY)	10	10	2860	0.75	2.0	20	350	400	300	350	320	230	190	40	130	100	4-φ14	20
40WQ8-15-1.1(JY)	8	15	2860	1.1	2.8	20	350	400	300	350	320	230	190	40	130	100	4-φ14	20
40WQ12-15-1.5(JY)	12	15	2860	1.5	4.0	20	540	590	490	540	330	240	190	40	130	100	4-φ14	28
50WQ10-10-0.75(JY)	10	10	2860	0.75	2.0	20	500	550	450	500	320	230	190	50	140	110	4-φ14	20
50WQ15-8-1.1(JY)	15	8	2860	1.1	2.8	20	500	550	450	500	320	230	190	50	140	110	4-φ14	20
50WQ8-15-1.1(JY)	8	15	2860	1.1	2.8	20	500	550	450	500	320	230	190	50	140	110	4-φ14	20
50WQ15-10-1.5(JY)	15	10	2860	1.5	4.0	20	500	550	450	500	330	240	200	50	140	110	4-φ14	28
50WQ10-15-1.5(JY)	10	15	2860	1.5	4.0	20	500	550	450	500	330	240	200	50	140	110	4-φ14	28
50WQ15-15-2.2(JY)	15	15	2860	2.2	6.0	20	540	590	490	540	340	250	200	50	140	110	4-φ14	35
50WQ25-10-2.2(JY)	25	10	2860	2.2	6.0	25	540	590	490	540	340	250	200	50	140	110	4-φ14	35
50WQ9-22-2.2(JY)	9	22	2860	2.2	6.0	20	540	590	490	540	340	250	200	50	140	110	4-φ14	35
50WQ20-18-2.2(JY)	20	18	2860	2.2	6.0	25	540	590	490	540	340	250	200	50	140	110	4-φ14	35
50WQ15-20-2.2(JY)	15	20	2860	2.2	6.0	20	540	590	490	540	340	250	200	50	140	110	4-φ14	35
50WQ20-25-3(JY)	20	25	2860	3	6.5	25	580	640	530	590	350	260	210	50	140	110	4-φ14	40
50WQ15-30-3(JY)	15	30	2860	3	6.5	20	580	640	530	590	350	260	210	50	140	110	4-φ14	40
50WQ15-35-4(JY)	15	35	2860	4	8.4	20	650	710	600	660	360	270	250	50	140	110	4-φ14	45
50WQ15-40-5.5(JY)	15	40	2860	5.5	12.0	20	680	740	630	690	390	300	250	50	140	110	4-φ14	60
50WQ20-30-5.5(JY)	20	30	2860	5.5	12.0	25	680	740	630	690	390	300	250	50	140	110	4-φ14	60
50WQ20-40-7.5(JY)	20	40	2860	7.5	16.8	25	680	740	630	690	370	280	250	50	140	110	4-φ14	95
50WQ25-35-7.5(JY)	25	35	2860	7.5	16.8	25	680	740	630	690	370	280	250	50	140	110	4-φ14	95
65WQ25-7-1.5(JY)	25	7	2860	1.5	4.0	25	550	600	450	500	330	230	200	65	160	130	4-φ14	28
65WQ35-7-2.2(JY)	35	7	2860	2.2	6.0	25	550	600	500	550	350	250	230	65	160	130	4-φ14	45
65WQ25-10-2.2(JY)	25	10	2860	2.2	6.0	25	550	600	500	550	350	250	200	65	160	130	4-φ14	35
65WQ25-15-3(JY)	25	15	2860	3	6.5	25	620	670	570	620	350	250	200	65	160	130	4-φ14	40
65WQ37-13-3(JY)	37	13	2860	3	6.5	25	620	670	570	620	350	250	200	65	160	130	4-φ14	40
65WQ40-10-3(JY)	40	10	2860	3	6.5	25	620	670	570	620	350	250	200	65	160	130	4-φ14	40
65WQ20-25-4(JY)	20	25	2860	4	8.4	25	650	700	600	650	370	270	240	65	160	130	4-φ14	50
65WQ30-30-5.5(JY)	30	30	2860	5.5	12.0	25	710	770	660	720	370	270	250	65	160	130	4-φ14	65
65WQ20-40-7.5(JY)	20	40	2860	7.5	16.8	25	800	860	760	820	450	350	250	65	160	130	4-φ14	95
80WQ45-9-2.2(JY)	45	9	2860	2.2	6.0	30	550	600	500	550	380	270	230	76	190	150	4-φ18	45
80WQ40-12-3(JY)	40	12	2860	3	6.5	30	620	680	570	630	380	270	230	76	190	150	4-φ18	50
80WQ40-15-4(JY)	40	15	2860	4	8.4	30	680	740	630	690	450	340	230	76	190	150	4-φ18	60
80WQ50-10-4(JY)	50	10	2860	4	8.4	30	680	740	630	690	450	340	230	76	190	150	4-φ18	60
80WQ65-15-5.5(JY)	65	15	2860	5.5	12.0	30	730	790	680	740	440	330	250	76	190	150	4-φ18	65
80WQ40-22-5.5(JY)	40	22	2860	5.5	12.0	30	820	880	770	830	460	350	250	76	190	150	4-φ18	65
80WQ40-30-7.5(JY)	40	30	2860	7.5	16.8	30	820	880	770	830	460	350	360	76	190	150	4-φ18	95
80WQ40-45-11(JY)	40	45	2860	11	23.6	30	850	910	780	840	500	390	360	76	190	150	4-φ18	135

Remark: H*, H1* refer to the dimension of agitating even-stirring type pump



Submersible Sewage Pump WQ(JY)

Technical data and dimensions

Model	Q	H	Speed	Power	Rated current	Max. dia. of passing solid	Dimensions(mm)													Weight
	(m ³ /h)	(m)	(rpm)	(kW)	(A)	(mm)	H	H*	H1	H1*	B3	B2	D2	d	D	D1	n1- φ d1	(kg)		
100WQ40-8-2.2(JY)	40	8	2860	2.2	6.0	30	550	600	500	550	430	270	230	100	210	170	4-φ 18	45		
100WQ50-7-2.2(JY)	50	7	2860	2.2	6.0	30	550	600	500	550	430	270	230	100	210	170	4-φ 18	45		
100WQ60-9-3(JY)	60	9	2860	3	6.5	30	600	660	550	610	430	270	230	100	210	170	4-φ 18	50		
100WQ65-10-4(JY)	65	10	2860	4	8.4	30	680	740	630	690	480	320	230	100	210	170	4-φ 18	60		
100WQ65-15-5.5(JY)	65	15	2860	5.5	12.0	30	730	790	680	740	480	320	250	100	210	170	4-φ 18	65		
100WQ65-20-7.5(JY)	65	20	2860	7.5	16.8	30	850	910	800	860	480	320	360	100	210	170	4-φ 18	95		
100WQ45-22-7.5(JY)	45	22	2860	7.5	16.8	30	800	860	750	810	480	320	360	100	210	170	4-φ 18	95		
100WQ100-6-4(JY)	100	6	2860	4	8.4	35	680	740	630	690	470	310	230	100	210	170	4-φ 18	60		
100WQ100-10-5.5(JY)	100	10	2860	5.5	12.0	35	730	790	680	740	480	320	250	100	210	170	4-φ 18	65		
100WQ100-15-7.5(JY)	100	15	2860	7.5	16.8	35	800	860	750	810	480	320	360	100	210	170	4-φ 18	95		
100WQ80-15-7.5(JY)	80	15	2860	7.5	16.8	35	800	860	750	810	480	320	360	100	210	170	4-φ 18	95		
150WQ100-7-5.5(JY)	100	7	2860	5.5	12.0	35	800	860	750	810	550	350	250	150	265	225	8-φ 18	65		
150WQ100-10-7.5(JY)	100	10	2860	7.5	16.8	35	800	860	750	810	550	350	360	150	265	225	8-φ 18	95		
100WQ80-25-11(JY)	80	25	1450	11	23.6	35	1000		950		710	550	420	100	210	170	4-φ 18	210		
100WQ80-30-15(JY)	80	30	1450	15	32.0	35	1020		920		710	550	420	100	210	170	4-φ 18	200		
100WQ80-35-18.5(JY)	80	35	1450	18.5	37.0	35	1060		950		710	550	420	100	210	170	4-φ 18	285		
150WQ145-9-7.5(JY)	145	9	1450	7.5	16.8	45	800	860	750	810	550	350	360	150	265	225	8-φ 18	95		
150WQ150-12-11(JY)	150	12	1450	11	23.6	45	1050		1000		820	620	420	150	265	225	8-φ 18	210		
150WQ180-15-15(JY)	180	15	1450	15	32.0	45	1050		1000		820	620	420	150	265	225	8-φ 18	200		
150WQ180-20-18.5(JY)	180	20	1450	18.5	37.0	45	1080		1030		820	620	420	150	265	225	8-φ 18	290		
150WQ150-24-18.5(JY)	150	24	1450	18.5	37.0	45	1080		1030		820	620	420	150	265	225	8-φ 18	290		
150WQ180-25-22(JY)	180	25	1450	22	45.0	45	1080		1030		820	620	420	150	265	225	8-φ 18	315		
150WQ200-10-15(JY)	200	10	1450	15	32.0	45	1050		1000		820	620	420	150	265	225	8-φ 18	200		
150WQ200-15-18.5(JY)	200	15	1450	18.5	37.0	45	1080		1030		820	620	420	150	265	225	8-φ 18	285		
150WQ200-20-22(JY)	200	20	1450	22	45.0	45	1080		1030		820	620	420	150	265	225	8-φ 18	315		
150WQ200-25-30	200	25	1450	30	60.0	45	1240		980		850	650	470	150	265	225	8-φ 18	450		
150WQ200-30-37	200	30	1450	37	75.0	45	1240		980		850	650	470	150	265	225	8-φ 18	650		
150WQ150-35-37	150	35	1450	37	75.0	40	1240		980		850	650	470	150	265	225	8-φ 18	650		
150WQ180-40-45	180	40	1450	45	90.0	40	1290		1030		850	650	470	150	265	225	8-φ 18	850		
200WQ300-7-11(JY)	300	7	1450	11	23.6	50	1120		1070		890	610	420	200	320	280	8-φ 18	216		
200WQ300-8-15(JY)	300	8	1450	15	32.0	50	1060		900		890	610	420	200	320	280	8-φ 18	248		
200WQ250-11-15(JY)	250	11	1450	15	32.0	50	1120		1070		890	610	420	200	320	280	8-φ 18	248		
200WQ250-15-18.5(JY)	250	15	1450	18.5	37.0	50	1020		800		890	610	420	200	320	280	8-φ 18	285		
200WQ300-9-18.5(JY)	300	9	1450	18.5	37.0	50	1020		800		890	610	420	200	320	280	8-φ 18	285		
200WQ400-10-22(JY)	400	10	1450	22	45.0	50	1070		850		890	610	420	200	320	280	8-φ 18	315		
200WQ300-15-22(JY)	300	15	1450	22	45.0	50	1070		850		890	610	420	200	320	280	8-φ 18	315		
200WQ250-22-30	250	22	1450	30	60.0	50	1240		980		900	620	470	200	320	280	8-φ 18	450		

Remark: H*, H1* refer to the dimension of agitating even-stirring type pump

Submersible Sewage Pump — WQ(JY)

Technical data and dimensions

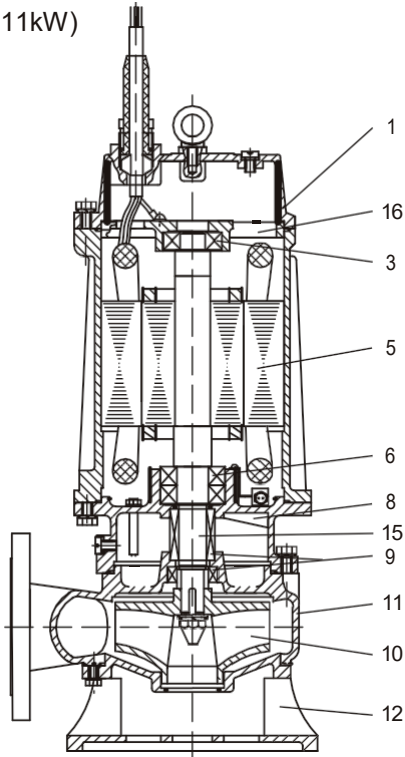
Model	Q	H	Speed	Power	Rated current	Max. dia. of passing solid	Dimensions(mm)											Weight (kg)
	(m ³ /h)	(m)	(rpm)	(kW)	(A)	(mm)	H	H*	H1	H1*	B3	B2	D2	d	D	D1	n1- φ d1	
200WQ360-15-30	360	15	1450	30	60.0	50	1240		980		900	620	470	200	320	280	8- φ 18	450
200WQ400-13-30	400	13	1450	30	60.0	50	1240		980		900	620	470	200	320	280	8- φ 18	450
200WQ300-20-37	300	20	1450	37	75.0	50	1240		980		900	620	470	200	320	280	8- φ 18	650
200WQ350-25-37	350	25	1450	37	75.0	50	1240		980		900	620	470	200	320	280	8- φ 18	650
200WQ400-18-37	400	18	1450	37	75.0	50	1240		980		900	620	470	200	320	280	8- φ 18	650
200WQ250-35-45	250	35	1450	45	90.0	45	1290		1030		900	620	470	200	320	280	8- φ 18	850
200WQ400-25-45	400	25	1450	45	90.0	50	1290		1030		900	620	470	200	320	280	8- φ 18	850
200WQ250-40-55	250	40	1450	55	110.0	45	1450		1050		1050	770	560	200	320	280	8- φ 18	1000
200WQ400-30-55	400	30	1450	55	110.0	45	1450		1050		1050	770	560	200	320	280	8- φ 18	1000
200WQ350-40-75	350	40	1450	75	150.0	45	1520		1120		1050	770	560	200	320	280	8- φ 18	1200
250WQ600-9-30	600	9	1450	30	60.0	55	1300		1050		980	640	470	250	375	335	12- φ 18	450
250WQ600-12-37	600	12	1450	37	75.0	55	1300		1050		980	640	470	250	375	335	12- φ 18	650
250WQ800-12-45	800	12	1450	45	90.0	60	1350		1100		980	640	470	250	375	335	12- φ 18	850
250WQ600-15-45	600	15	1450	45	90.0	55	1350		1100		980	640	470	250	375	335	12- φ 18	850
250WQ600-20-55	600	20	1450	55	110.0	55	1450		1050		1210	870	560	250	375	335	12- φ 18	1000
250WQ600-25-75	600	25	1450	75	150.0	55	1520		1120		1210	870	560	250	375	335	12- φ 18	1200
250WQ600-30-90	600	30	1450	90	180.0	55	1570		1170		1210	870	560	250	375	335	12- φ 18	1300
300WQ800-8-37	800	8	1450	37	75.0	60	1400		1150		1200	800	470	300	440	395	12- φ 22	650
300WQ500-15-45	500	15	1450	45	90.0	55	1450		1200		1200	800	470	300	440	395	12- φ 22	850
300WQ800-12-45	800	12	1450	45	90.0	60	1450		1200		1200	800	470	300	440	395	12- φ 22	850
300WQ600-20-55	600	20	1450	55	110.0	55	1480		1080		1270	870	560	300	440	395	12- φ 22	1000
300WQ800-20-75	800	20	1450	75	150.0	60	1520		1120		1270	870	560	300	440	395	12- φ 22	1200
300WQ950-20-90	950	20	1450	90	150.0	65	1570		1170		1270	870	560	300	440	395	12- φ 22	1300
300WQ1000-25-110	1000	25	1450	110	220.0	70	2200		2100		1900	1500	600	300	440	395	12- φ 22	1400
350WQ1500-7-45	1500	7	1450	45	90.0	80	2100		2100		1880	1380	500	350	490	445	12- φ 22	860
350WQ1100-10-55	1100	10	1450	55	110.0	75	2150		2100		1880	1380	560	350	490	445	12- φ 22	1000
350WQ1200-13-75	1200	13	1450	75	150.0	75	2150		2100		1900	1400	560	350	490	445	12- φ 22	1200
350WQ1300-10-75	1300	10	1450	75	150.0	75	2150		2100		1900	1400	560	350	490	445	12- φ 22	1200
350WQ1200-15-90	1200	15	1450	90	180.0	75	2190		2150		1950	1450	560	350	490	445	12- φ 22	1350
350WQ1130-18-90	1130	18	1450	90	180.0	75	2190		2150		1950	1450	560	350	490	445	12- φ 22	1350

Remark: H*, H1* refer to the dimension of agitating even-stirring type pump

Submersible Sewage Pump — WQ(JY)

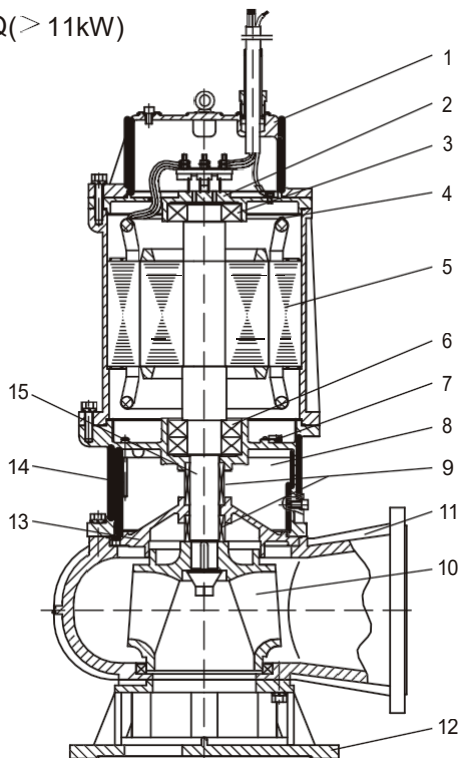
● WQ, JYWQ Summary

WQ($\leq 11\text{kW}$)



No	Name	Material
1	Pump cover	Cast iron HT200
3	Bearing	
5	Motor	
6	Bearing	
8	Oil chamber	Cast iron HT200
9	Mechanical seal	Sic/Tungsten Carbide
10	Impeller	Cast iron HT200
11	Casing	Cast iron HT200
12	Base	Cast iron HT200
15	Shaft	Stainless steel2Cr13
16	Thermal protector	

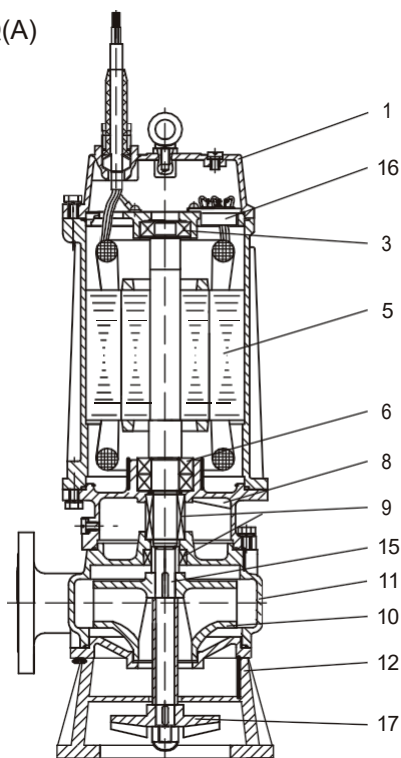
WQ($> 11\text{kW}$)



No.	Name	Material
1	Pump cover	Cast iron HT200
2	Upper bearing seat	Cast iron HT200
3	Bearing	
4	Heat control switch	
5	Motor	
6	Bearing	
7	Water in detector	
8	Oil chamber	Cast iron HT200
9	Mechanical seal	Sic/Tungsten Carbide
10	Impeller	Cast iron HT200
11	Casing	Cast iron HT200
12	Base	Cast iron HT200
13	Oil chamber cover	Stainless steel
14	Oilwater detector	
15	Shaft	Stainless steel2Cr13

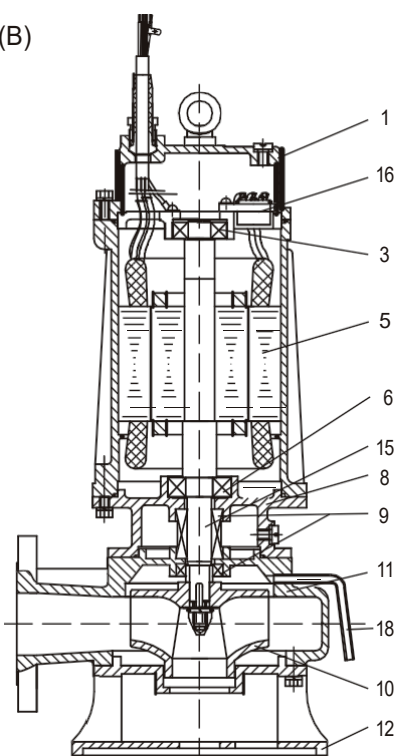
Submersible Sewage Pump — WQ(JY)

JYWQ(A)



No	Name	Material
1	Pump cover	Cast iron HT200
3	Bearing	
5	Motor	
6	Bearing	
8	Oil chamber	Cast iron HT200
9	Mechanical seal	Sic/Tungsten Carbide
10	Impeller	Cast iron HT200
11	Casing	Cast iron HT200
12	Base	Cast iron HT200
15	Shaft	Stainless steel2Cr13
16	Thermal protector	
17	Stir impeller	Cast iron HT200

JYWQ(B)



No.	Name	Material
1	Pump cover	Castiron HT200
3	Bearing	
5	Motor	
6	Bearing	
8	Oil chamber	Castiron HT200
9	Mechanical seal	Sic/Tungsten Carbide
10	Impeller	Castiron HT200
11	Casing	Castiron HT200
12	Base	Castiron HT200
15	Shaft	Stainless steel2Cr13
16	Thermal protector	
18	Stir impeller	Ejecting pipe