



WQ

**Submersible sewage pump
50Hz**



Nanfang Zhongjin Environment Co.,Ltd.

CNP Headquarter

Address: Renhe Town, Hangzhou, China

Post code: 311107

Tel: +86 571 86397837

Fax: +86 571 86397809

E-mail: info@nanfang-pump.com

<http://www.cnppump.com>

E180503
Code1500008130
subject to amendments



Company Profile



Founded in 1991, Nanfang Zhongjin Environment Co.,Ltd. (hereinafter referred to as CNP) has been listed on the Shenzhen Stock Exchange on 9th December 2010; Stock name: CNP; Stock code: 300145.

As the first enterprise specializing in the research and large-scale production of stainless steel stamping welded centrifugal pump in China, CNP is currently the professional manufacturer with the highest volume of production and marketing in that industry. It ranks first in the country in terms of product scope, sales volume, and production quality. The company has set up a complete network of marketing services to meet the requirements of overseas markets as well as domestic needs. The products have seen a wide range of application in the area of pressurization, industry, living water, cycling of air-conditioning water, heat supply, fire extinguishing system, pumping of underground water, treatment of sewage and waste water, chemical industry and desalination of sea water etc.

CNP has now entered into the fast track of development and has taken a major step forward in forging China Strong Pump Enterprise and World's famous brand in the Pump Industry. In order to better meet the client's needs and requirements for expansion, it has set up a wide network of selling and service, as well as offices and service centers in major cities in China, which are aimed at providing timely and effective services for our clients. Meanwhile, our company has successfully penetrated into the world market by forging a good business relationship with more than 50 countries and regions in the Europe, Northern American, and Southeast Asia etc.

New generation submersible sewage pump

Summary-----	5
Application-----	6
Working conditions-----	6
Definition of model-----	6
Installation type-----	7
Movable installation-----	7
Coupling device dimensions-----	8
Relevant dimensions-----	8
WQ(I) type submersible sewage pumps-----	9
Technical data and dimensions-----	12
Performance curve-----	16
WQ-JY(I) type submersible sewage pumps-----	22
Technical data and dimensions-----	23
Performance curve-----	24
WQ-QG(I) cutting type submersible sewage pump-----	26
Technical data and dimensions-----	27
Performance curve-----	28
WQ-W(I) non-clogging cutting type submersible sewage pump-----	29
Technical data and dimensions-----	30
Performance curve-----	31
WQ-X(I) type submersible sewage pumps-----	34
Technical data and dimensions-----	35
Performance curve-----	35
Table of pump type and oil capacity-----	36

Traditional submersible sewage pump

WQ,WQ-JY submersible sewage pump 37
 Summery 37
 Application 37
 Working conditions 37
 Definition of model 37
 Structure 38
 Sectional drawing 39
 Installation type 41
 Technical data and dimensions 43
 Performance curve 48

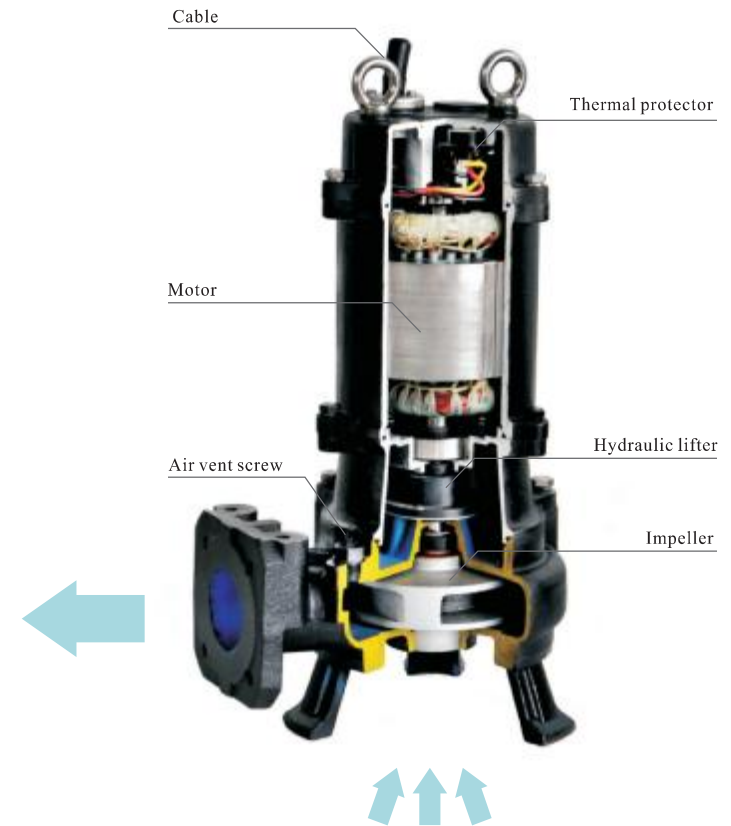
WQ-F submersible sewage pump

Summery 53
 Application 53
 Working conditions 53
 Definition of model 53
 Sectional drawing 54
 Installation type 55
 Technical data and dimensions 57
 Performance curve 59

WQ-QG submersible sewage pump

Summery 63
 Application 63
 Working conditions 63
 Structure 63
 Definition of model 63
 Sectional drawing 63
 Technical data and dimensions 64
 Performance curve 64
 NFK-B electric control cabinet 65
 Ordering instructions 67

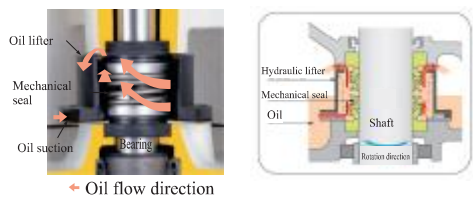
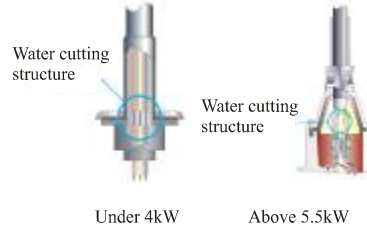
New generation submersible sewage pump



SUMMARY

WQ(I) series new generation submersible sewage pump has the following features:

- 1 The special cable production process can prevent water leak to motor cabinet when cable cover is broken or the front of cable is submersed.
- 2 Specially designed submersible motor with the protection level of IPX8, insulation class F. The allowed temperature rise is high, submerged cooling effect is good, the actual temperature rise is low, motor insulation life is long, it ensures that the motor can automatically cut off the power supply in abnormal condition.
- 3 The product is fitted with outside frameworks oil seal and double-mechanical seal. The hydraulic lifter which is installed inside oil chamber ensures the lubrication of mechanical seal when the oil level is low. Prolong the service life of the seal, the sealing performance is more reliable, effectively ensuring the continuous safe operation of product. (This kind of technology is a patent of Tsurumi Pump)
- 4 The design of automatic vent valve enables the pump to exhaust air automatically when pumping water. (This kind of technology is a patent of Tsurumi Pump)
- 5 The impeller adopts semi-closed and open shape of double-channel design. Because of symmetric channel, it is well balanced, stable running, small vibration, long service life and energy saving.



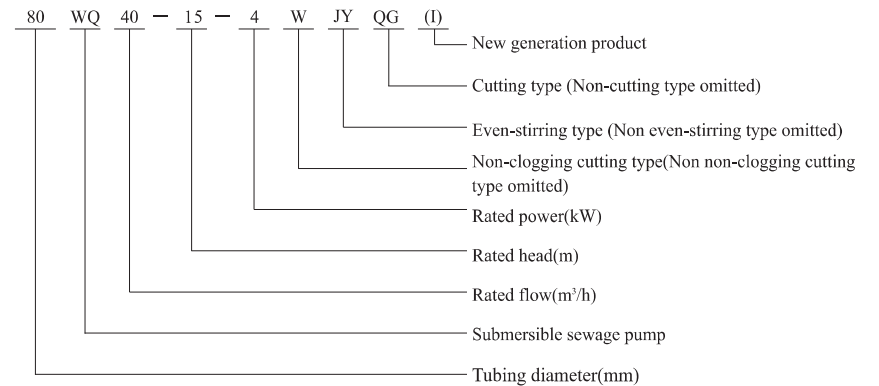
Application

- Sewage water treatment system for construction, industrial enterprises, municipal projects, etc.
- Drainage, waste water treatment for city environmental protection system.
- Prospection, mines, etc.
- Irrigation, fen, aquaculture, fountain, etc.

Working conditions

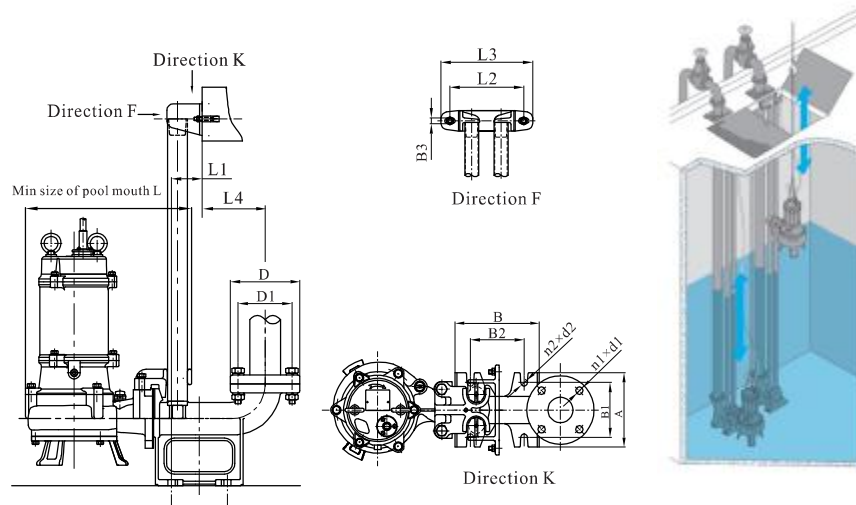
- Power Supply: 50Hz, 3×380V;
- Medium temperature shall less than 40°C, PH value is between 4 to 10. Medium density shall less than 1200kg/m³, solid and liquid ratio shall less than 2%.
- The lowest liquid level shall in conform to the lowest liquid in the size dimension.
- The pump is not suitable for strong corrosive fluids or strong corrosive solid.
- The solid diameter in the medium shall not exceed the maximum allowed solid diameter.

Definition of model

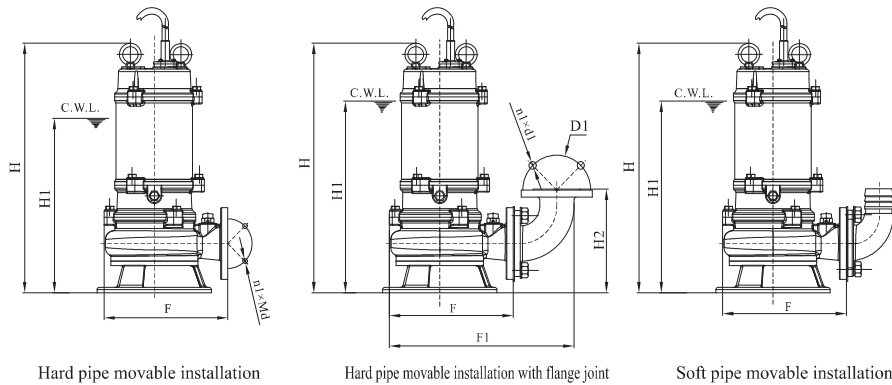


● Installation type

Fixed auto coupling device installation



● Movable installation



*C.W.L: The lowest water level when continuous operating

● Coupling device dimension

Measure:mm

No.	Diameter	Flange connection size PN6				Coupling base dimension(mm)						L	L1	L2	L3	L4
		D	D1	n1×d1	n1×Md	A	B	B1	B2	B3	n2×d2					
1	DN40	130	100	4-Φ14	4-M12	140	149	100	95	2-Φ14	4-Φ18	400	73	185	230	57
2	DN50	140	110	4-Φ14	4-M12	160	200	120	120	2-Φ14	4-Φ18	400	60	185	230	175
3	DN65	160	130	4-Φ14	4-M12	190	220	140	140	2-Φ14	4-Φ18	415	75	195	230	130
4	DN80	190	150	4-Φ18	4-M16	220	250	170	170	2-Φ14	4-Φ18	415	75	195	230	165
5	DN100	210	170	4-Φ18	4-M16	250	290	200	200	2-Φ15	4-Φ18	480	114	245	300	176
6	DN150 (TOS150)	265	225	8-Φ18	8-M16	400	410	300	300	3-Φ15	4-Φ24	925	190	260	380	190
7	DN150 (TO150)	265	225	8-Φ19	8-M16	400	410	300	300	3-Φ15	4-Φ24	1048	220	260	380	160
8	DN200	320	280	8-Φ19	8-M16	400	450	300	350	3-Φ15	4-Φ24	1048	200	260	380	229
9	DN250	375	335	12-Φ19	12-M16	460	560	360	430	3-Φ15	4-Φ24	1205	200	280	380	300
10	DN300	440	395	12-Φ23	12-M20	600	630	500	470	3-Φ18	4-Φ28	1078	270	400	700	300

In the following two situations , foot bracket is not included :
 1. auto coupling installed cutting type pump with 2 pole motor;
 2. auto coupling installed cutting type pump with 5.5kW 4 pole motor and above.

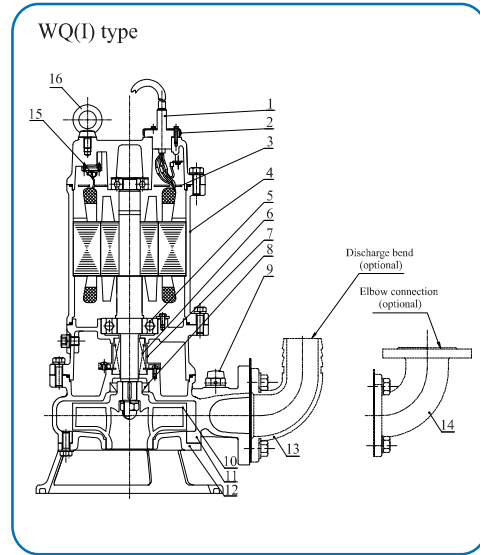
● Relevant dimensions

Measure:mm(Except inch)

Diameter	DN40	DN50	DN65	DN80	DN100	DN150	DN200	DN250	DN300
Item	DN40	DN50	DN65	DN80	DN100	DN150	DN200	DN250	DN300
Guide rod tap pipe /Seamless steel pipe	1"/33×3.0		1-1/4"/42×3.0		2"/60×3.25	1-1/2"/48×3.25		2-1/2"/75×4	
Guide rod length	Pool depth -245	Pool depth -285	Pool depth -300	Pool depth -320	Pool depth -365	Pool depth -100		Pool depth -150	
Quantity of expansion bolt and specification	2-M10×120				2-M12×125			2-M16×150	
Quantity of bolt and specification	4-M16×250					4-M20×300			4-M24×350
Footer bolt hole size	80×80×300					100×100×350			120×120×400
Dia. of soft pipe	DN40	DN50	DN65	DN80	DN100	DN150	DN200	DN250	DN300

● WQ(I) type submersible sewage pump

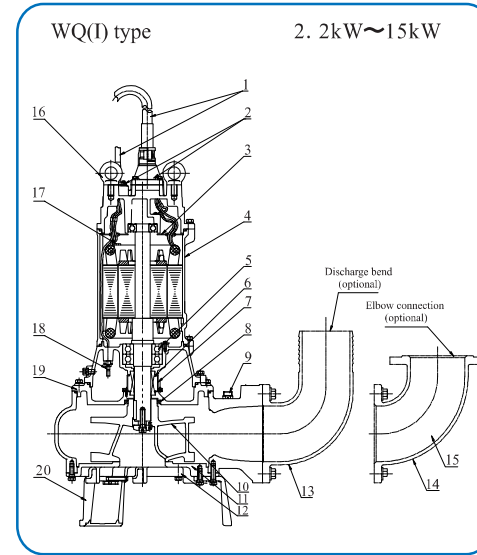
Sectional drawing of sewage pump with 2 pole motor



No.	Name	Material
1	Cable	YZW
2	Cable gland	/
3	Threading board	/
4	Electric motor	/
5	Bearing	/
6	Mechanical seal	Graphite/ Silicon carbide
7	Oil lifter	/
8	Oil seal	NBR1-2
9	Air vent screw	Resin/others
10	Impeller	HT200
11	Casing	HT200
12	Suction cover	HT200
13	Discharge bend (optional)	HT200
14	Elbow connection (optional)	HT200
15	Thermal protector	/
16	Eye-bolt	/

● WQ(I) type submersible sewage pump

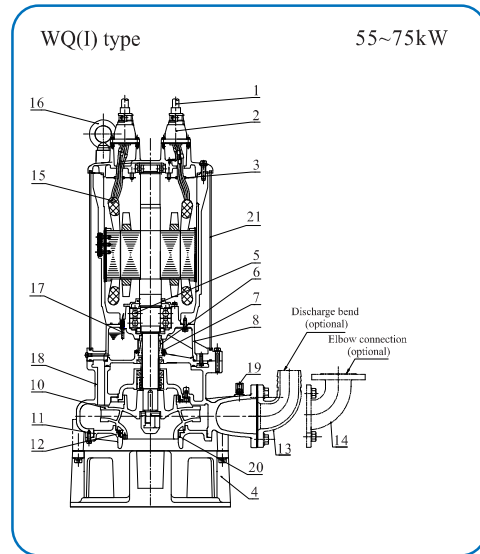
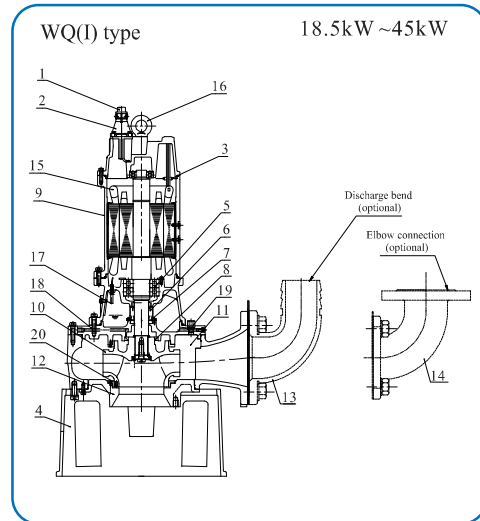
Sectional drawing of sewage pump with 4 pole motor



No.	Name	Material
1	Cable	YZW
2	Cable gland	/
3	Threading board	/
4	Electric motor	/
5	Bearing	/
6	Mechanical seal	Graphite/ Silicon carbide
7	Oil lifter	/
8	Oil seal	NBR1-2
9	Air vent screw	Resin/others
10	Impeller	HT200
11	Casing	HT200
12	Suction cover	HT200
13	Discharge bend (optional)	HT200
14	Discharge bend	HT200
15	Elbow connection (optional)	HT200
16	Eye-bolt	/
17	Thermal protector	/
18	Leak sensor electrode bar(above 11kw)	/
19	Casing top cover	HT200
20	Foot support	/

● WQ(I) type submersible sewage pump

Sectional drawing of sewage pump with 4 pole motor



No.	Name	Material
1	Cable	YCW
2	Cable gland	HT200
3	Threading board	Q235
4	Filter bracket	QT600
5	Bearing	/
6	Mechanical seal	Graphite/ Silicon carbide
7	Oil lifter	/
8	Oil seal	NBR1-2
9	Base	HT200
10	Impeller	HT200
11	Casing	HT200
12	Suction cover	HT200
13	Discharge bend (optional)	HT200
14	Discharge bend (optional)	HT200
15	Mini-thermal protector	/
16	Eye-bolt	45#Galvanized
17	Leak sensor electrode bar(above 11kw)	/
18	Casing top cover	HT200
19	Air vent nut	06Cr19Ni10
20	Neck ring	HT200
21	Water isolation cover	Q235

● Technical data and dimensions(2 pole motor)

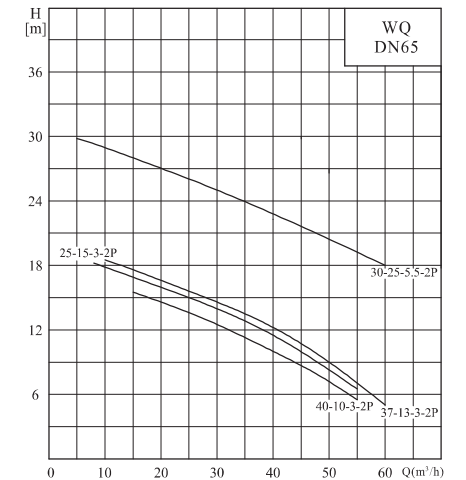
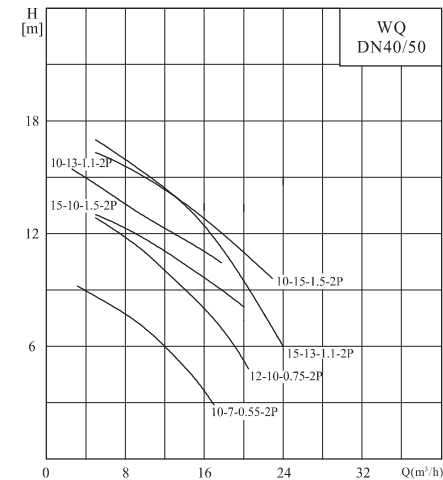
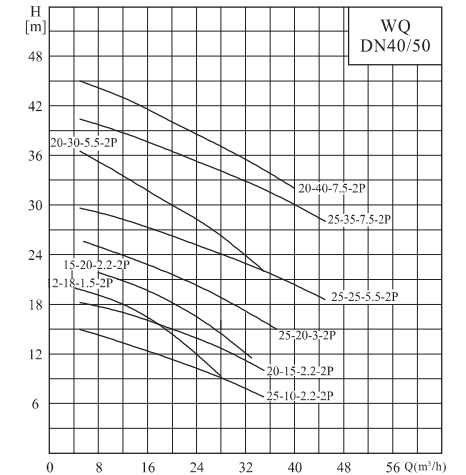
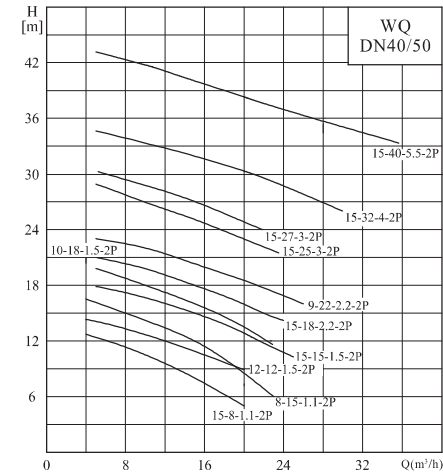
Model	Diameter	Q	H	Speed	Power	Rated voltage	Rated current	Max. dia. of passing solid	Weight	Dimensions(mm)					
	(mm)	(m ³ /h)	(m)	(rpm)	(kW)	(V)	(A)	(mm)	(kg)	H	H1	H2	F	F1	H3
40WQ12-10-0.75(I)	40	12	10	2850	0.75	380	1.8	15	21.5	415	285	203	222	333	93
40WQ8-15-1.1(I)	40	8	15	2850	1.1	380	2.6	15	21.5	415	285	203	222	333	93
40WQ15-8-1.1(I)	40	15	8	2850	1.1	380	2.6	20	25.5	440	300	214	244	337	93
40WQ15-13-1.1(I)	40	15	13	2850	1.1	380	2.6	15	23.5	440	305	214	245	337	93
40WQ12-18-1.5(I)	40	12	18	2880	1.5	380	3.3	20	33	470	330	215	271	382	104.5
50WQ10-7-0.55(I)	50	10	7	2850	0.55	380	1.3	15	21.5	415	285	203	222	333	93
50WQ12-10-0.75(I)	50	12	10	2850	0.75	380	1.8	15	21.5	415	285	203	222	333	93
50WQ8-15-1.1(I)	50	8	15	2850	1.1	380	2.6	20	25.5	440	300	214	244	337	104
50WQ10-13-1.1(I)	50	10	13	2850	1.1	380	2.6	20	25.5	440	300	214	244	337	104
50WQ15-8-1.1(I)	50	15	8	2850	1.1	380	2.6	20	25.5	440	300	214	244	337	93
50WQ15-13-1.1(I)	50	15	13	2850	1.1	380	2.6	15	23.5	440	305	214	245	363	93
50WQ10-15-1.5(I)	50	10	15	2880	1.5	380	3.3	20	33	475	310	216	270	363	106.5
50WQ10-18-1.5(I)	50	10	18	2880	1.5	380	3.3	20	33	475	310	216	270	363	106.5
50WQ12-12-1.5(I)	50	12	12	2880	1.5	380	3.3	20	33	475	310	216	270	363	106.5
50WQ15-10-1.5(I)	50	15	10	2880	1.5	380	3.3	20	33	475	310	216	270	363	106.5
50WQ15-15-1.5(I)	50	15	15	2880	1.5	380	3.3	20	33	475	310	216	270	363	106.5
50WQ9-22-2.2(I)	50	9	22	2880	2.2	380	4.6	22	37.5	475	310	216	270	363	106.5
50WQ15-18-2.2(I)	50	15	18	2880	2.2	380	4.6	22	37.5	510	320	216	279	373	106.5
50WQ15-20-2.2(I)	50	15	20	2880	2.2	380	4.6	22	37.5	510	320	216	279	373	106.5
50WQ20-15-2.2(I)	50	20	15	2880	2.2	380	4.6	22	37.5	510	320	216	279	373	106.5
50WQ25-10-2.2(I)	50	25	10	2880	2.2	380	4.6	22	37.5	510	320	216	279	373	106.5
50WQ15-25-3(I)	50	15	25	2840	3	380	6.1	25.5	44	540	335	218	279	372	108
50WQ15-27-3(I)	50	15	27	2840	3	380	6.1	25.5	44	540	335	218	279	372	108
50WQ25-20-3(I)	50	25	20	2840	3	380	6.1	25.5	44	540	335	218	279	372	108
50WQ15-32-4(I)	50	15	32	2840	4	380	7.7	25.5	49.5	557	351	221	321	414	111
50WQ15-40-5.5(I)	50	15	40	2940	5.5	380	10.8	19.5	84	790	450	221	321	414	118.5
50WQ20-30-5.5(I)	50	20	30	2940	5.5	380	10.8	19.5	84	790	450	221	321	414	118.5
50WQ25-25-5.5(I)	50	25	25	2940	5.5	380	10.8	19.5	84	790	450	221	321	414	122
50WQ20-40-7.5(I)	50	20	40	2940	7.5	380	14.3	19.5	92	787	500	221	321	414	124
50WQ25-35-7.5(I)	50	25	35	2940	7.5	380	14.3	19.5	92	787	500	221	321	414	124
65WQ15-10-1.1(I)	65	15	10	2850	1.1	380	2.6	23	27	440	300	214	246	363	104
65WQ25-10-1.5(I)	65	25	10	2850	1.5	380	3.3	28	30	480	340	160	283	418	110
65WQ25-14-2.2(I)	65	25	14	2880	2.2	380	4.6	24	40.5	526	340	235	287	404	115.5
65WQ35-7-2.2(I)	65	35	7	2880	2.2	380	4.6	24	40.5	526	340	235	287	404	115.5
65WQ25-15-3(I)	65	25	15	2840	3	380	6.1	25.5	46	542	336	229	275	392	106.5
65WQ25-18-3(I)	65	25	18	2840	3	380	6.1	25.5	46	542	336	229	275	392	106.5
65WQ37-13-3(I)	65	37	13	2840	3	380	6.1	25.5	46	542	336	229	275	392	106.5
65WQ40-10-3(I)	65	40	10	2840	3	380	6.1	25.5	46	542	336	229	275	392	106.5
65WQ20-25-4(I)	65	20	25	2840	4	380	7.7	26	52	563	357	235	320	437	114.5
65WQ20-27-4(I)	65	20	27	2840	4	380	7.7	26	52	563	357	235	320	437	114.5

● Technical data and dimensions(4 pole motor)

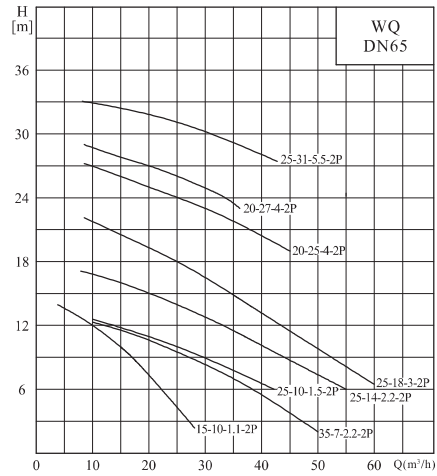
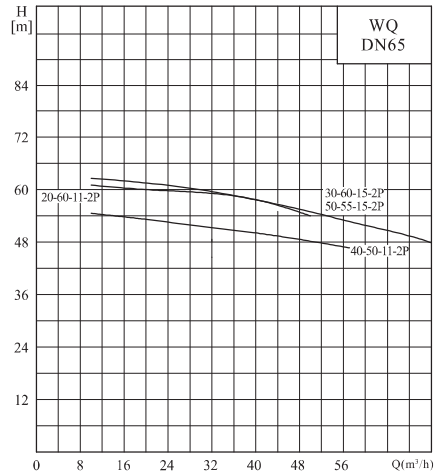
Model	Diameter		Q	H	Speed	Power	Rated voltage	Rated current	Max. dia. of passing solid	Weight	Dimensions(mm)					
	(mm)	(m ³ /h)									(m)	(rpm)	(kW)	(V)	(A)	(mm)
200WQ350-40-75(I)	200	350	40	1480	75	380	142.0	40	919	1663	1300	650	811	1236	386	
200WQ500-30-75(I)	200	500	30	1480	75	380	142.0	40	919	1663	1300	650	811	1236	386	
250WQ400-15-30(I)	250	400	15	1460	30	380	57.4	45	485	1517	1250	750	815	1235	490	
250WQ600-9-30(I)	250	600	9	1460	30	380	57.4	45	485	1517	1250	750	815	1235	490	
250WQ360-20-30(I)	250	360	20	1460	30	380	57.4	45	485	1517	1250	750	815	1235	490	
250WQ420-22-37(I)	250	420	22	1470	37	380	71.9	62	550	1594	1200	750	820	1240	490	
250WQ600-12-37(I)	250	600	12	1470	37	380	71.9	62	550	1594	1200	750	820	1240	490	
250WQ360-28-45(I)	250	360	28	1470	45	380	87.0	45	685	1556	1200	695	829	1256	432.5	
250WQ600-28-75(I)	250	600	28	1480	75	380	142.0	60	930	1663	1300	740	895	1380	430	
300WQ800-8-37(I)	300	800	8	1450	37	380	75.0	60	650	1400	1150	779	800	1200	514	
300WQ500-15-37(I)	300	500	15	1450	37	380	75.0	60	650	1400	1150	779	800	1200	514	
300WQ600-18-45(I)	300	600	18	1470	45	380	87.0	60	690	1605	1250	825	881	1306	514	
300WQ800-12-45(I)	300	800	12	1470	45	380	87.0	60	690	1605	1250	825	881	1306	514	
300WQ600-20-55(I)	300	600	20	1450	55	380	106.0	55	865	1680	1120	775	870	1270	466.5	
300WQ800-20-75(I)	300	800	20	1450	75	380	142.0	60	956	1680	1120	775	870	1270	466.5	

Please contact the salesman for overall dimension drawing.

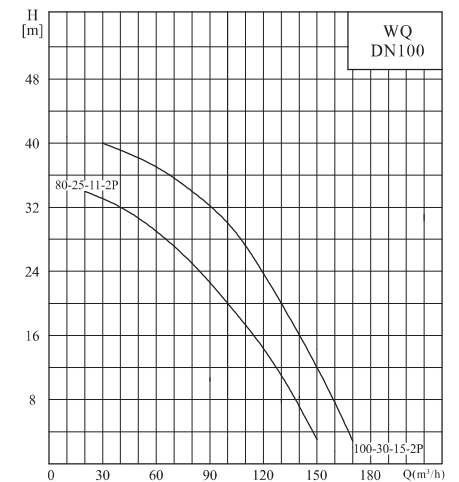
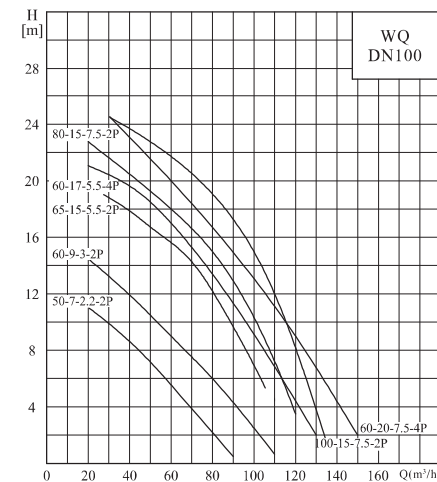
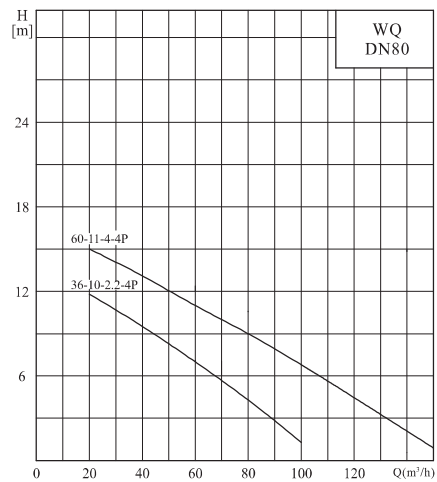
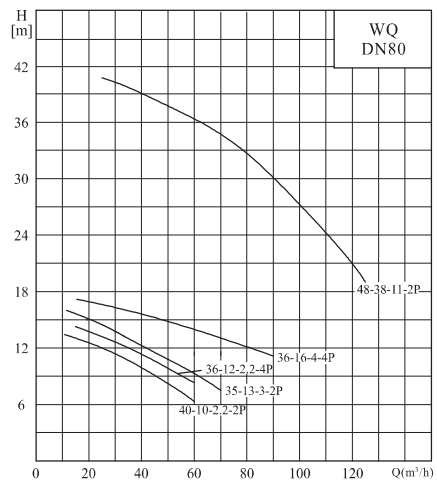
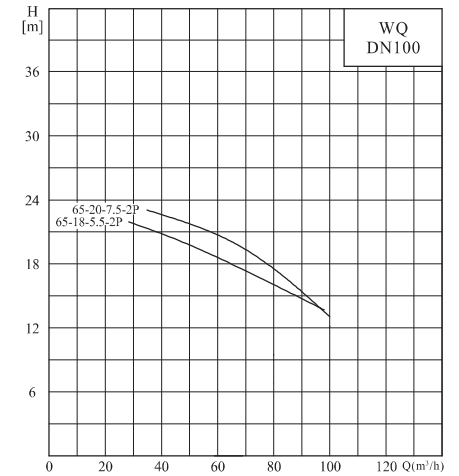
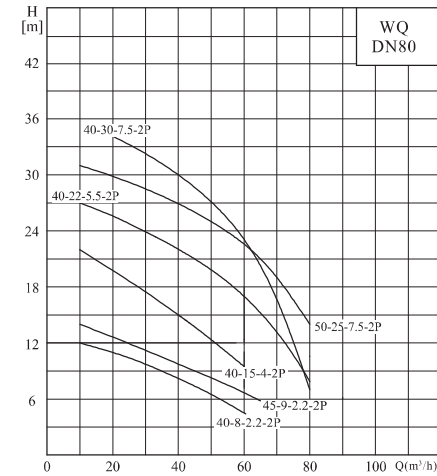
● Performance curve



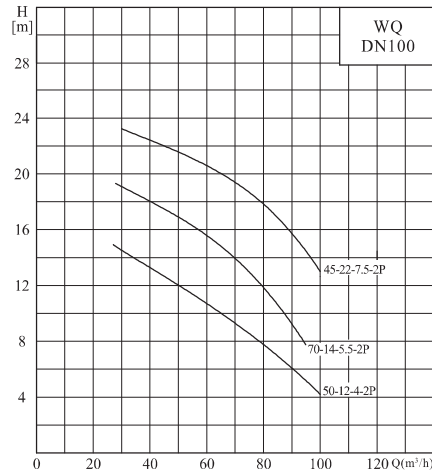
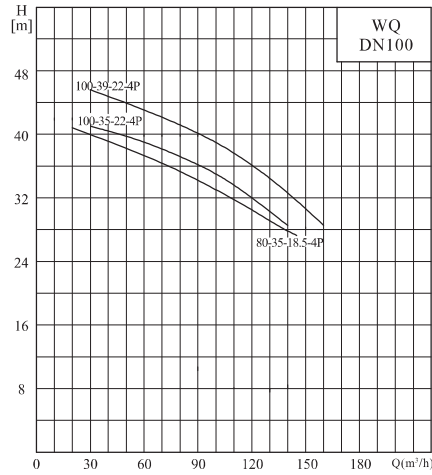
● Performance curve



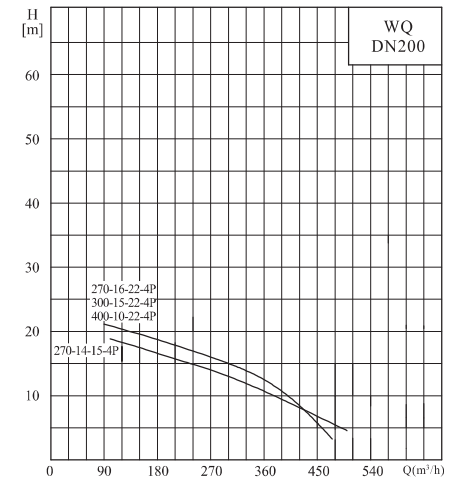
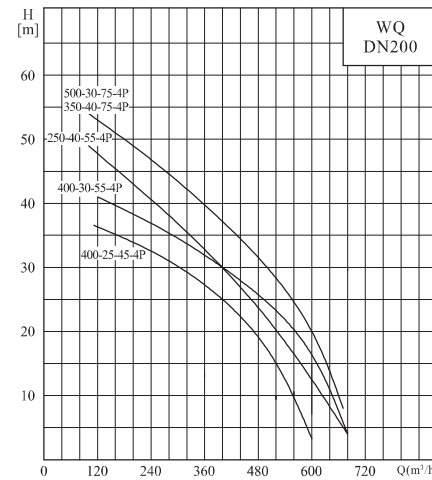
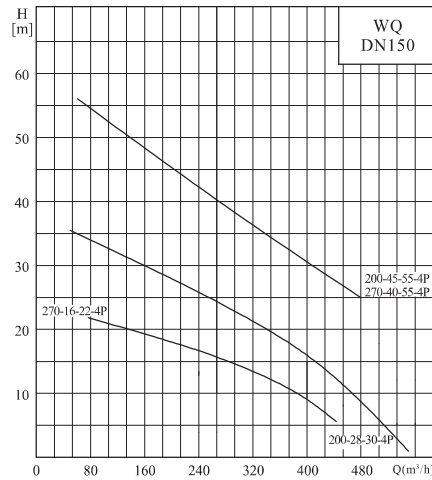
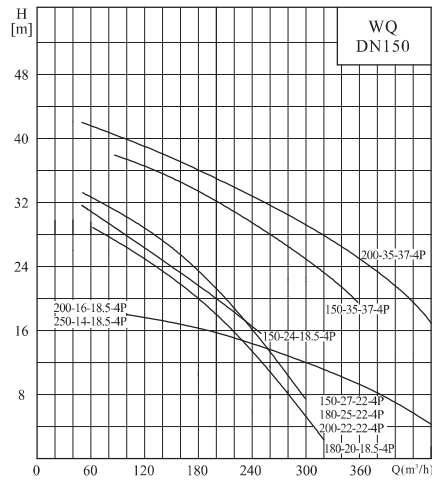
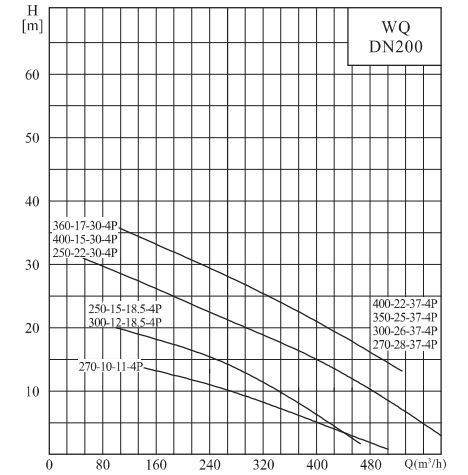
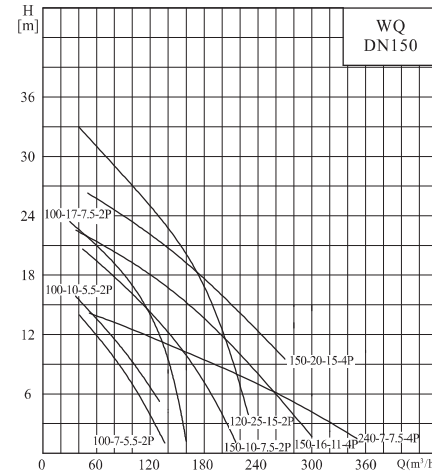
● Performance curve



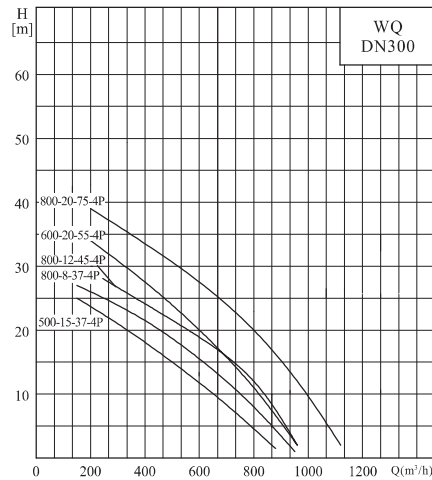
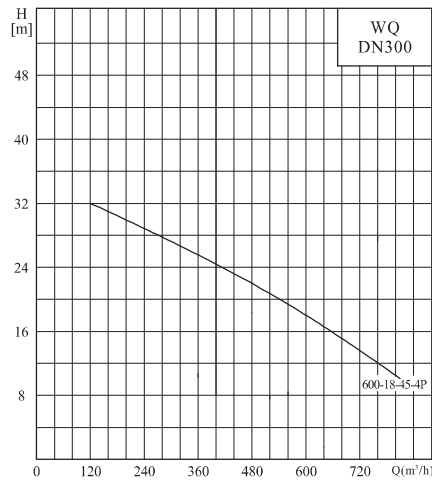
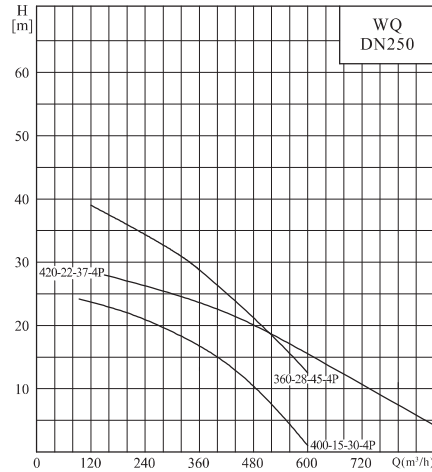
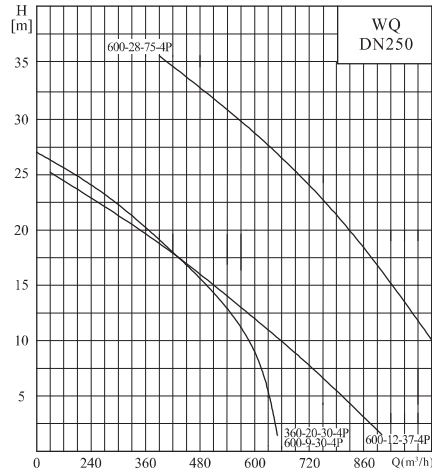
● Performance curve



● Performance curve

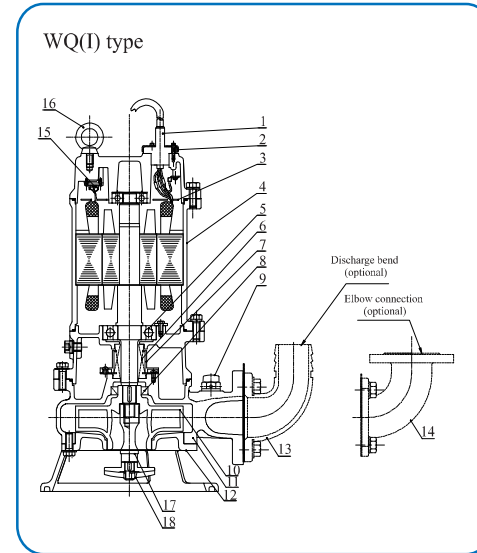


● Performance curve



● WQ-JY(I) type submersible sewage pump

Sectional drawing of sewage pump with 2 pole motor

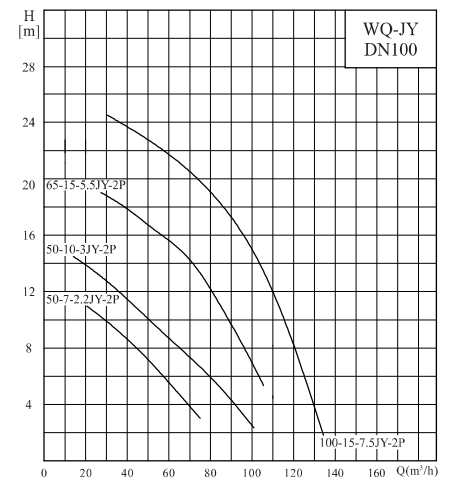
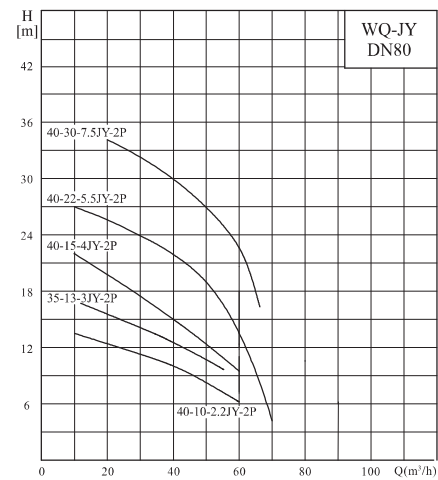
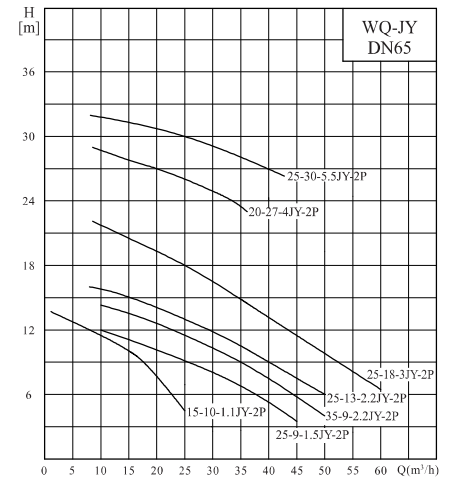
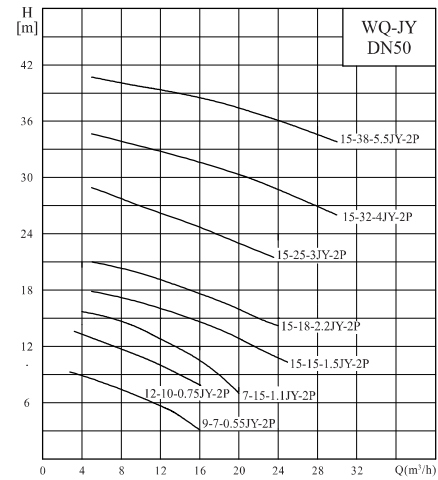


No.	Name	Material
1	Cable	YCW
2	Cable gland	/
3	Threading board	/
4	Filter bracket	/
5	Bearing	/
6	Mechanical seal	Graphite/ Silicon carbide
7	Oil lifter	/
8	Oil seal	NBR1-2
9	Air vent screw	Resin/others
10	Impeller	HT200
11	Casing	HT200
12	Suction cover	HT200
13	Discharge bend (optional)	HT200
14	Elbow connection (optional)	HT200
15	Thermal protector	/
16	Eye-bolt	/
17	Stir shaft(for JY)	20Cr13
18	Stir impeller(for JY)	HT200

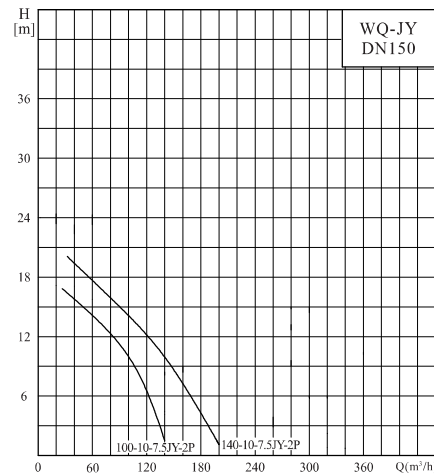
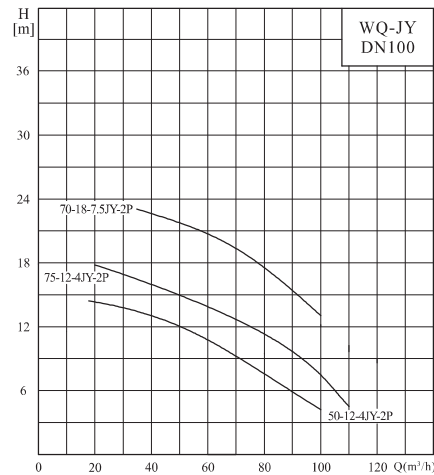
● Technical data and dimensions

Model	Diameter	Q	H	Speed	Power	Rated voltage	Rated current	Max. dia. of passing solid	Weight	Dimensions(mm)						
	(mm)	(m ³ /h)	(m)	(rpm)	(kW)	(V)	(A)	(mm)	(kg)	H	H1	H2	F	F1	H3	
50WQ9-7-0.55JY	50	9	7	2850	0.55	380	1.3	15	21.5	415	285	203	222	333	93	
50WQ12-10-0.75JY	50	12	10	2850	0.75	380	1.8	15	21.5	415	285	203	222	333	93	
50WQ7-15-1.1JY	50	7	15	2850	1.1	380	2.6	20	25.5	440	300	214	244	337	104	
50WQ15-15-1.5JY	50	15	15	2880	1.5	380	3.3	20	33	475	310	216	270	363	106.5	
50WQ15-18-2.2JY	50	15	18	2880	2.2	380	4.6	22	37.5	510	320	216	279	373	106.5	
50WQ15-25-3JY	50	15	25	2840	3	380	6.1	25.5	44	540	335	218	279	372	108	
50WQ15-32-4JY	50	15	32	2840	4	380	7.7	25.5	49.5	557	351	221	321	414	111	
50WQ15-38-5.5JY	50	15	38	2940	5.5	380	10.8	19.5	84	790	450	221	321	414	118.5	
65WQ15-10-1.1JY	65	15	10	2850	1.1	380	2.6	23	27	440	300	214	246	363	104	
65WQ25-9-1.5JY	65	25	9	2850	1.5	380	3.3	28	30	480	340	160	283	418	110	
65WQ25-13-2.2JY	65	25	13	2880	2.2	380	4.6	24	40.5	526	340	235	287	404	115.5	
65WQ35-9-2.2JY	65	35	9	2880	2.2	380	4.6	24	40.5	526	340	235	287	404	115.5	
65WQ25-18-3JY	65	25	18	2840	3	380	6.1	25.5	46	542	336	229	275	392	106.5	
65WQ20-27-4JY	65	20	27	2840	4	380	7.7	26	52	563	357	235	320	437	114.5	
65WQ25-30-5.5JY	65	25	30	2940	5.5	380	10.8	17.5	86	793	450	236	314	431	129.5	
80WQ40-10-2.2JY	80	40	10	2880	2.2	380	4.6	26.5	42.5	545	370	256	296	431	120.5	
80WQ35-13-3JY	80	35	13	2840	3	380	6.1	34.5	47	565	360	256	300	436	120.5	
80WQ40-15-4JY	80	40	15	2840	4	380	7.7	26	51	563	357	250	318	454	114.5	
80WQ40-22-5.5JY	80	40	22	2940	5.5	380	10.8	17.5	85.5	793	450	251	310	447	129.5	
80WQ40-30-7.5JY	80	40	30	2940	7.5	380	14.3	17.5	92	790	500	251	310	447	130	
100WQ50-7-2.2JY	100	50	7	2880	2.2	380	4.6	45	48	522	400	170	323	472	120.5	
100WQ50-10-3JY	100	50	10	2840	3	380	6.1	10	50	564	420	190	311	460	120.5	
100WQ50-12-4JY	100	50	12	2840	4	380	7.7	34.5	53.5	607	400	292	337	492	142	
100WQ75-12-4JY	100	75	12	2840	4	380	7.7	34.5	53.5	607	400	292	337	492	142	
100WQ65-15-5.5JY	100	65	15	2940	5.5	380	10.8	35.5	89	835	500	292	337	492	145	
100WQ70-18-7.5JY	100	70	18	2940	7.5	380	14.3	32.5	98	835	500	297	365	519	147	
100WQ100-15-7.5JY	100	100	15	2940	7.5	380	14.3	32.5	98	835	500	297	365	519	147	
150WQ100-10-7.5JY	150	100	10	2940	7.5	380	14.3	31	109	850	510	365	398	660	157.5	
150WQ140-10-7.5JY	150	140	10	2940	7.5	380	14.3	30	105	909	670	425	398	660	214.5	

● Performance curve

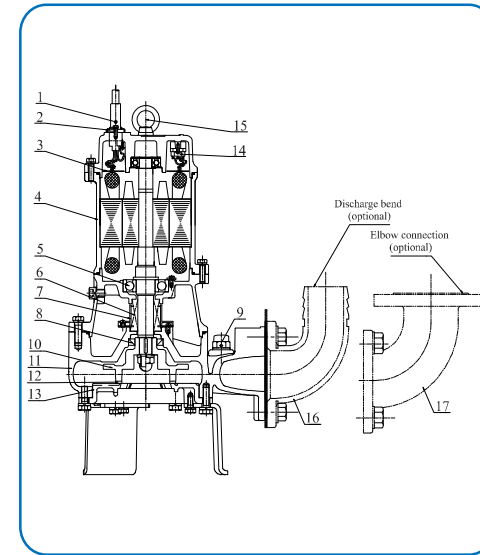


● Performance curve



● WQ-QG(I) cutting type submersible sewage pump

Cutting type pump(2 pole motor)



With the reasonable structure of cutting type, the pump is able to prevent clogging at the extreme. It consists of rotating impeller which with cutting blade and suction cover which with zigzag fixed gear. The edge of blade and zigzag cover will move in the opposite direction when impeller rotates. It ensures the excellent cutting performance of the pump. Impeller and suction cover are produced by casting process which can improve the head of the pump.

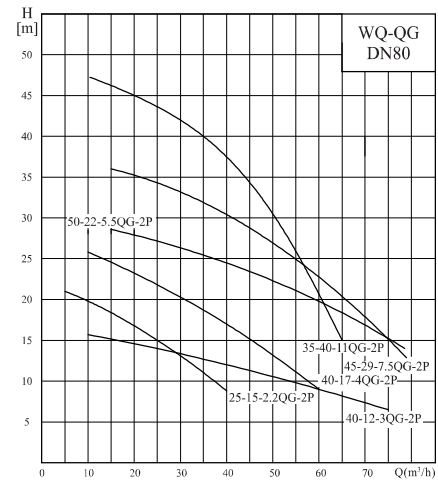
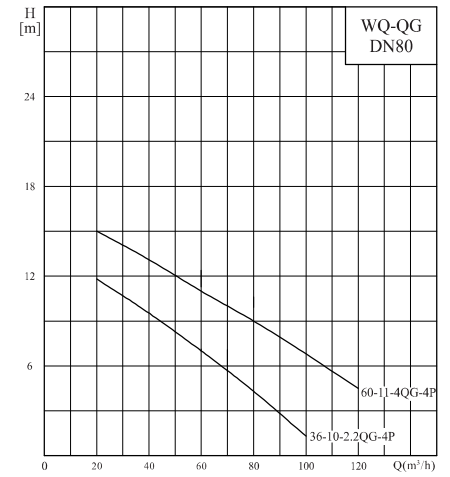
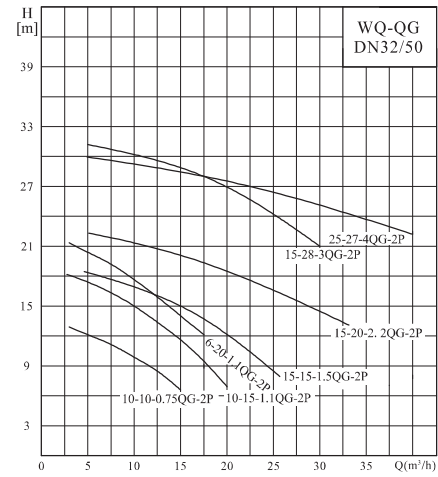
No.	Name	Material
1	Cable	YZW
2	Cable gland	/
3	Threading board	/
4	Electric motor	/
5	Bearing	/
6	Mechanical seal	Graphite/ Silicon carbide
7	Oil lifter	/
8	Oil seal	NBR1-2
9	Air vent screw	Resin/others
10	Impeller	HT200
11	Casing	HT200
12	Cutting blade	Cemented carbide
13	Suction cover	QT600
14	Circle thermal protector	/
15	Eye-bolt	/
16	Discharge bend (optional)	HT200
17	Elbow connection (optional)	HT200

● Technical data and dimensions

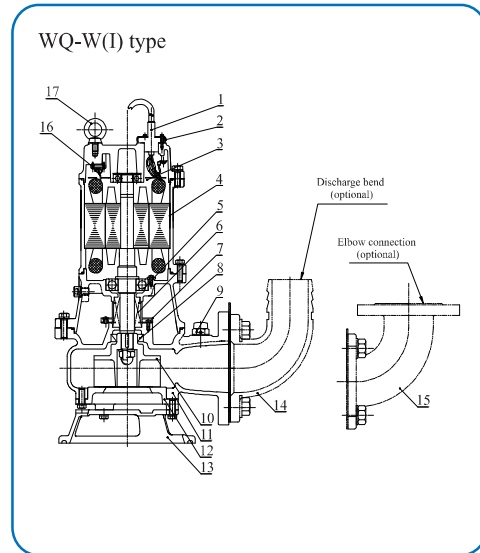
Model	Diameter		Q	H	Speed	Power	Rated voltage	Rated current	Max. dia. of passing solid	Weight	Dimensions(mm)				
	(mm)	(m ² /h)									(m)	(rpm)	(kW)	(V)	(A)
32WQ6-20-1.1/QG(I)	32	6	20	2850	1.1	380	2.6	12	18	398	270	157	237	317	82
50WQ10-10-0.75/QG(I)	50	10	10	2850	0.75	380	1.8	11	21.5	415	285	203	222	333	93
50WQ10-15-1.1/QG(I)	50	10	15	2850	1.1	380	2.6	13	22	415	280	201	238	349	93
50WQ15-15-1.5/QG(I)	50	15	15	2880	1.5	380	3.3	23	33	464	320	197	2710	382	96.5
50WQ15-20-2.2/QG(I)	50	15	20	2880	2.2	380	4.6	12	37.5	510	320	216	279	373	107
50WQ15-28-3/QG(I)	50	15	28	2840	3	380	6.1	20	45	540	370	119	294	405	108.5
50WQ25-27-4/QG(I)	50	25	27	2840	4	380	7.7	22	50	556	420	221	337	448	111.5
80WQ25-15-2.2/QG(I)	80	25	15	2880	2.2	380	4.6	22	45	576	440	291	313	450	156.5
80WQ36-10-2.2/QG(I)	80	36	10	1413	2.2	380	5.5	47	65	643	500	308	363	510	168.5
80WQ40-12-3/QG(I)	80	40	12	2840	3	380	6.1	22	45	586	450	276	300	447	141
80WQ40-17-4/QG(I)	80	40	17	2840	4	380	7.7	22	48	609	465	292	313	450	156.5
80WQ60-11-4/QG(I)	80	60	11	1413	4	380	8.4	65	80	717	570	315	369	515	173.5
80WQ50-22-5.5/QG(I)	80	50	22	2940	5.5	380	10.8	23	99	879	570	320	410	546	185
80WQ45-29-7.5/QG(I)	80	45	29	2940	7.5	380	14.3	25	99	879	600	320	410	546	185
80WQ35-40-11/QG(I)	80	35	40	2930	11	380	21.7	25	130	927	660	320	410	559	185

Please contact the salesman for overall dimension drawing. The dimensions of above table please refer to page 8.

● Performance curve



● WQ-W(I) non-clogging cutting type submersible sewage pump



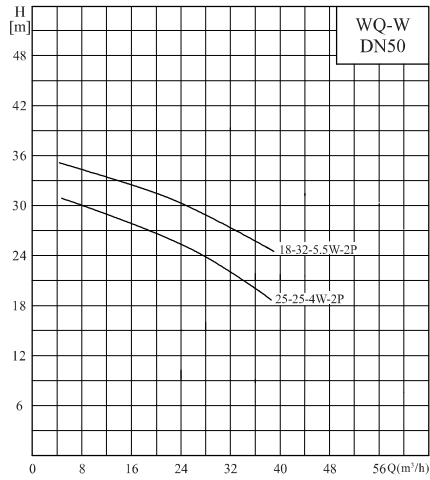
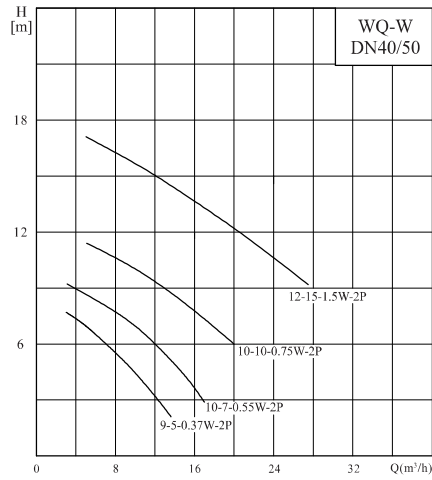
With the reasonable structure of cutting type, the pump is able to prevent clogging at the extreme. It consists of rotating impeller which with cutting blade and suction cover which with zigzag fixed gear. The edge of blade and zigzag cover will move in the oppsite direction when impeller rotates. It ensures the excellent cutting performance of the pump, Impeller and suction cover are produced by casting process which can improve the head of the pump.

No.	Name	Material
1	Cable	YZW
2	Cable gland (below 4KW)	SUS304
	Cable gland (above 5.5KW)	HT200
3	Threading board (below 4KW)	PPS
	Threading board (below 5.5KW)	Q235
4	Electric motor	/
5	Bearing	/
6	Mechanical seal	Graphite/Silicon carbide
7	Oil lifter	/
8	Oil seal	NBR1-2
9	Air vent screw	Resin/others
10	Impeller	QT600
11	Casing	HT200
12	Non-clogging suction cover	QT600
13	Non-clogging foot bracket	QT600
14	Discharge bend (optional)	HT200
15	Elbow connection (optional)	HT200
16	Thermal protector	/
17	Eye-bolt	/

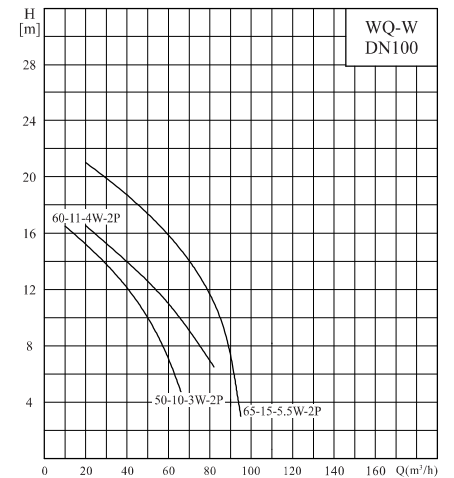
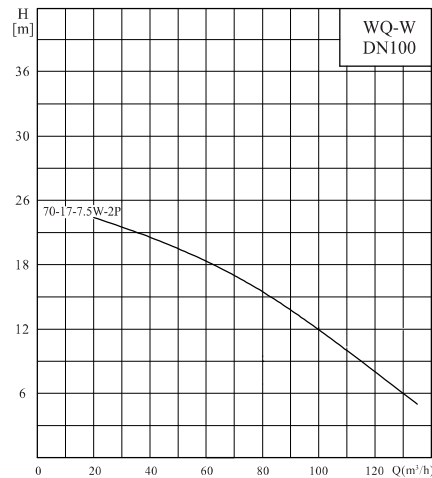
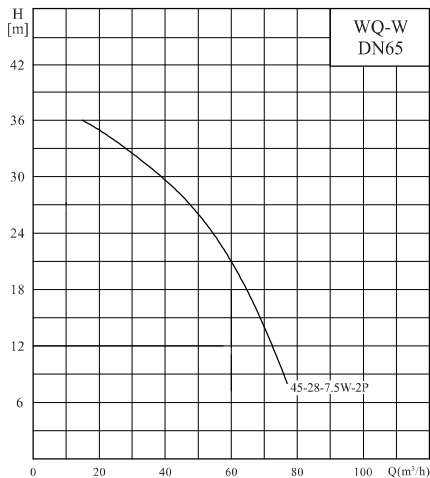
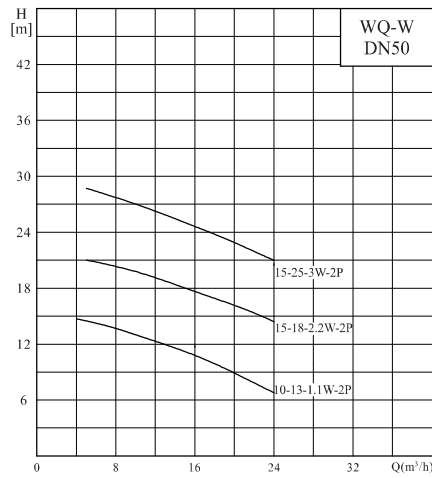
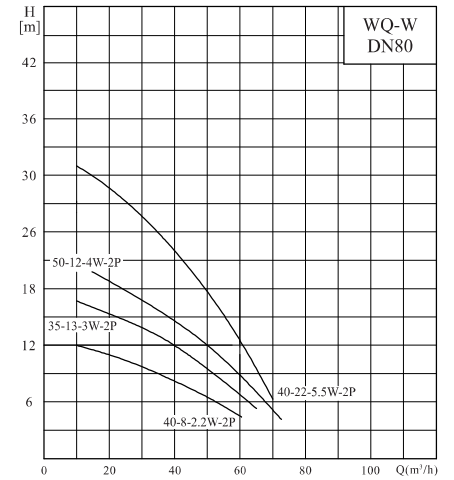
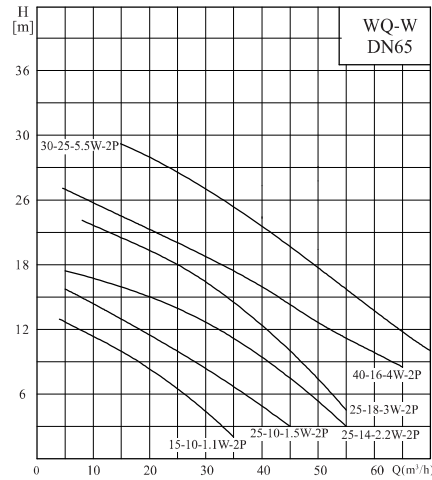
● Technical data and dimensions

Model	Diameter	Q	H	Speed	Power	Rated voltage	Rated current	Max. dia. of passing solid	Weight	Dimensions(mm)					
	(mm)	(m ³ /h)	(m)	(rpm)	(kW)	(V)	(A)	(mm)	(kg)	H	H1	H2	F	F1	H3
40WQ9-5-0.37W(I)	40	9	5	2800	0.37	380	1.0	15	20	374	260	169	184	284	79
40WQ10-7-0.55W(I)	40	10	7	2850	0.55	380	1.2	15	23	420	285	189	222	322	99
40WQ10-10-0.75W(I)	40	10	10	2850	0.75	380	1.8	15	23	420	285	189	222	333	99
40WQ12-15-1.5W(I)	40	12	15	2880	1.5	380	3.3	18	35	478	340	202	269	368	112
50WQ10-13-1.1W(I)	50	10	13	2850	1.1	380	2.6	18	27	443	330	217	241	353	107.5
50WQ10-7-0.55W(I)	50	10	7	2850	0.55	380	1.2	15	23	420	285	209	222	333	99
50WQ10-10-0.75W(I)	50	10	10	2850	0.75	380	1.8	15	23	420	285	209	222	322	99
50WQ12-15-1.5W(I)	50	12	15	2880	1.5	380	3.3	18	35	478	340	222	269	381	114
50WQ15-18-2.2W(I)	50	15	18	2880	2.2	380	4.6	18	39	517	370	224	283	395	114
50WQ15-25-3W(I)	50	15	25	2840	3	380	6.1	20	47	547	400	225	283	395	115
50WQ25-25-4W(I)	50	25	25	2840	4	380	7.7	18	52	593	450	257	298	410	147
50WQ18-32-5.5W(I)	50	18	32	2940	5.5	380	10.8	18	86	814	540	244	324	436	133.5
65WQ15-10-1.1W(I)	65	15	10	2850	1.1	380	2.6	18	29	443	330	227	241	378	107.5
65WQ25-10-1.5W(I)	65	25	10	2880	1.5	380	3.3	18	38	485	350	230	279	416	110
65WQ25-14-2.2W(I)	65	25	14	2880	2.2	380	4.6	18	42	531	390	241	298	435	121
65WQ25-18-3W(I)	65	25	18	2840	3	380	6.1	19	48	550	390	236	278	415	115.5
65WQ40-16-4W(I)	65	40	16	2840	4	380	7.7	18	67	598	470	270	298	534	149.5
65WQ30-25-5.5W(I)	65	30	25	2940	5.5	380	10.8	20	87	824	590	270	324	461	149.5
80WQ40-8-2.2W(I)	80	40	8	2880	2.2	380	4.6	22	55	548	400	259	296	433	124
80WQ35-13-3W(I)	80	35	13	2840	3	380	6.1	19	49	575	430	265	283	433	130.5
80WQ50-12-4W(I)	80	50	12	2840	4	380	7.7	15	43	598	450	285	303	453	150
80WQ40-22-5.5W(I)	80	40	22	2940	5.5	380	10.8	20	87	825	590	285	324	474	149.5
100WQ50-10-3W(I)	100	50	10	2840	3	380	6.1	19	50	575	430	281	311	500	130.5
100WQ60-11-4W(I)	100	60	11	2840	4	380	7.7	18	55	630	500	315	303	492	165
100WQ65-15-5.5W(I)	100	65	15	2940	5.5	380	10.8	24	92	857	560	315	334	523	165
65WQ45-28-7.5W(I)	65	45	28	2940	7.5	380	14.3	33	100	855	590	316	351	540	149.5
100WQ70-17-7.5W(I)	100	70	17	2940	7.5	380	14.3	33	100	855	590	316	351	540	165.5
150WQ140-10-7.5W(I)	150	140	10	2940	7.5	380	14.3	35	120	890	620	383	390	652	172.5
150WQ140-14-11W(I)	150	140	14	1440	11	380	22.9	52	216	1097	750	535	575	825	325
200WQ210-10-11W(I)	200	210	10	1440	11	380	22.9	63	255	1113	760	530	568	890	320
150WQ200-16-15W(I)	150	200	16	1440	15	380	30.6	57	237	1167	800	535	572	822	325
200WQ300-10-15W(I)	200	300	10	1440	15	380	30.6	64	230	1184	810	535	546	868	320

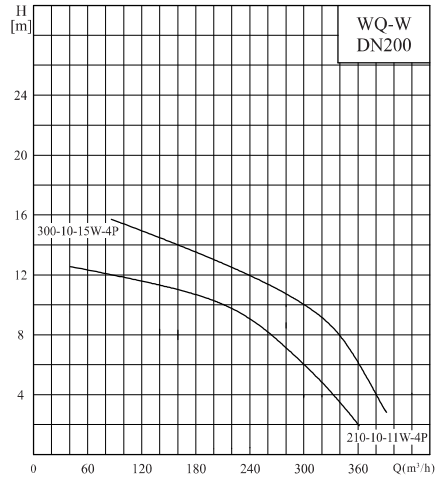
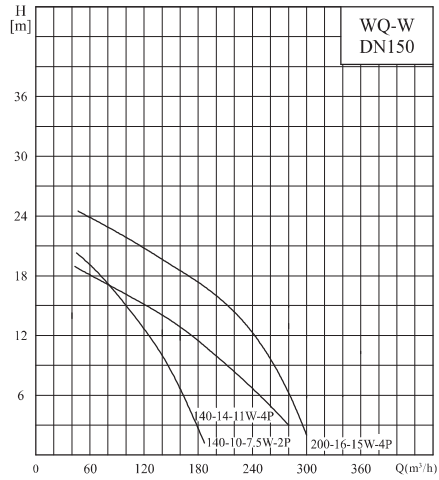
● Performance curve



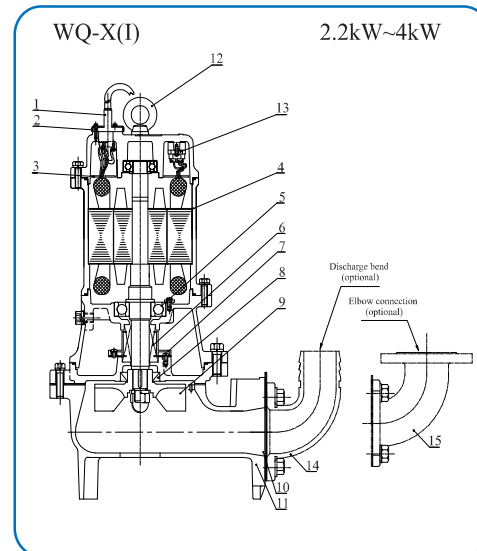
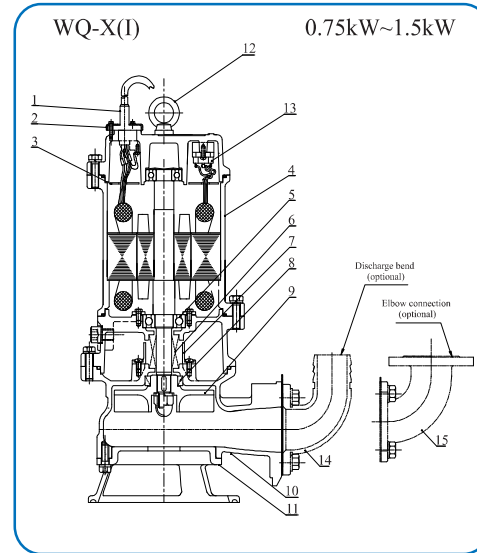
● Performance curve



● Performance curve



● WQ-X(I) series spiral-flow type submersible sewage pump
2 pole motor vortex pump

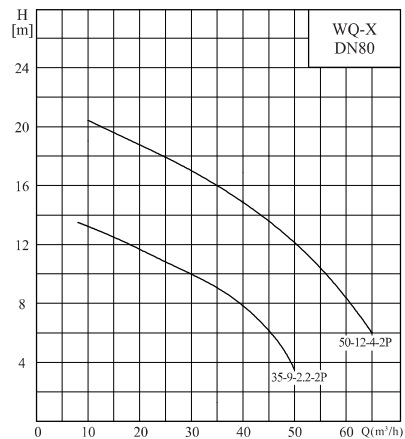
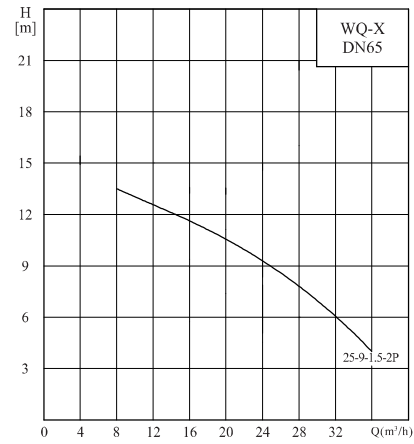
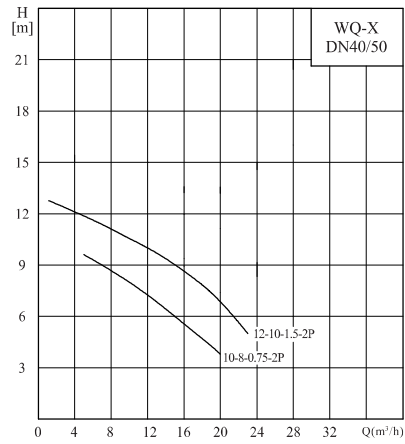


No.	Name	Material
1	Cable	YZW
2	Cable gland	/
3	Threading board	/
4	Base	HT200
5	Bearing	/
6	Mechanical seal	Graphite/ Silicon carbide
7	Oil lifter	/
8	Oil seal	NBR1-2
9	Impeller	Cast iron
10	Casing	Cast iron
11	Suction cover	Cast iron
12	Eye-bolt	/
13	Thermal protector	/
14	Discharge bend (optional)	Cast iron
15	Elbow connection (optional)	Cast iron

● Technical data and dimensions

Model	Diameter	Q	H	Speed	Power	Rated current	Max. dia. of passing solid	Weight	Dimensions(mm)						
	(mm)	(m ³ /h)	(m)	(rpm)	(kW)	(A)	(mm)	(kg)	H	H1	H2	F	F1	H3	
50WQX10-8-0.75	50	10	8	2850	0.75	1.8	37	23	432	287	177	215	324	77	
50WQX12-10-1.5	50	12	10	2880	1.5	3.3	36	31	468	317	182	250	358	82	
65WQX25-9-1.5	65	25	9	2880	1.5	3.3	47	36	490	340	207	250	385	87	
80WQX35-9-2.2	80	35	9	2880	2.2	4.6	56	50	545	390	227	275	420	90	
80WQX50-12-4	80	50	12	2840	4	7.7	56	58	575	415	230	280	427	90	

● Performance curve



● Table of pump models and oil capacities

Pump model and power	Oil capacity	Remark	Pump model and power	Oil capacity
2P-0.37kW	320		4P-2.2kW	1300
2P-0.55kW	500		4P-4kW	1200
2P-0.75kW	500		4P-5.5kW	4200
2P-1.1kW	500	50WQ8-15-1.1 50WQ15-13-1.1	4P-7.5kW	4800
2P-1.1kW	670		4P-11kW	5200
2P-1.5kW	940		4P-15kW	5100
2P-2.2kW	1160		4P-18.5kW	4600
2P-3kW	1100		4P-22kW	4600
2P-4kW	1300		4P-30kW	8600
2P-5.5kW	2140		4P-37kW	9100
2P-7.5kW	2000		4P-45kW	9100
2P-11kW	2000		4P-55kW	9600
2P-15kW	2000		4P-75kW	9600

Traditional submersible sewage pump

● WQ,WQ-JY submersible sewage pump

● Summary

- WQ, WQ-JY improve the same type pumps of the local and overseas. It optimizes the hydraulic, seal technology, structure, protection. And it innovates, makes it more reliable and safe. Easy to use, long service life, good drainage capacity. The whole series is easy for selection. If fit with electronic control cabinet, which will protect pump.
- Optimize performance, two channel impeller, two to three mechanical seal, make mechanical seal lubricate, and cool better, run stable without clogging, easy to pass for pumped liquid.
- Mechanical seal is tandem type, the shaft seal is more reliable, long service life.
- The improvement the structure is benefit for seal, running reliable, less vibration, optimized structure, pump is easy for usage.
- IPX8 motor, good cooling performance, temperature rise is lower than normal motor, durable, Class F insulation to ensure the long service life of motor.
- There are many protections in the motor, easy for selection.

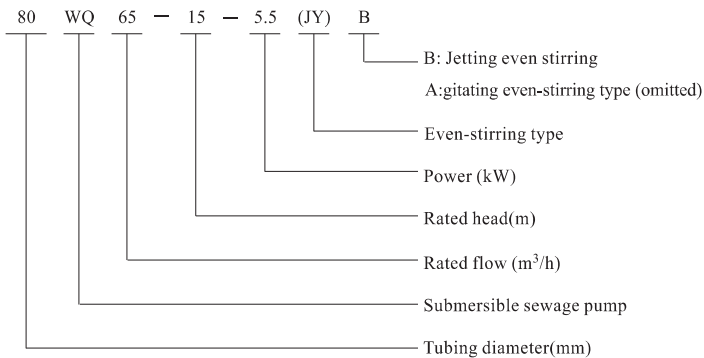
● Application

- Building, hospital, residential area, municipal projects, roads, factory sewage, small sewage treatment, etc. The pumped liquid can be rain water, waste water with solid, long fabrics

● Working conditions

- Power supply: 50Hz, 3PH, 380V
- Medium temperature <math> < 40^{\circ}\text{C}</math>, PH value is 4-10, medium density <math> < 1200\text{kg}/\text{m}^3</math> solid and liquid ratio <math> < 2\%</math>.
- The lowest liquid level shall in conform to the lowest liquid in the installation drawing.
- The pump is not suitable for strongly corrosion liquid or strongly corrosion solid.
- The solid shall not exceed the max. allowed solid diameter.

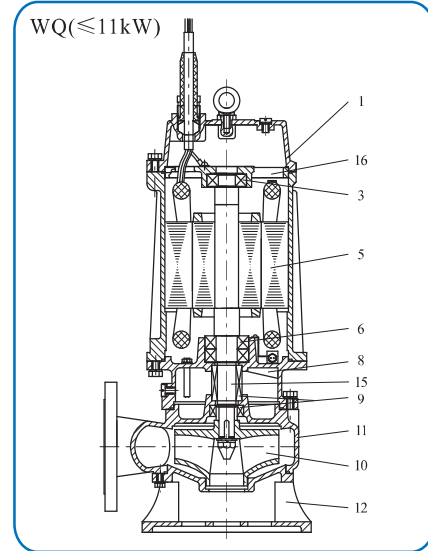
● Definition of model



● 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, the protection level is IPX8, 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.

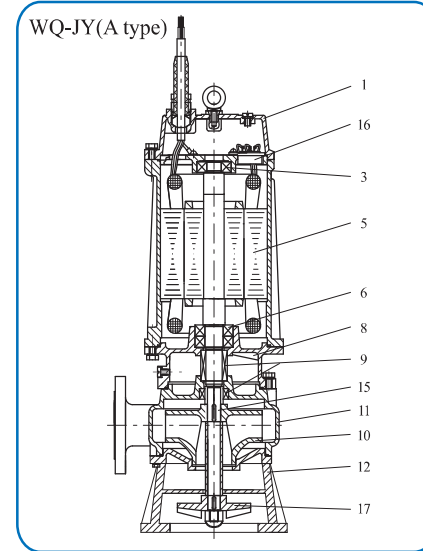
● Sectional drawing



● Material

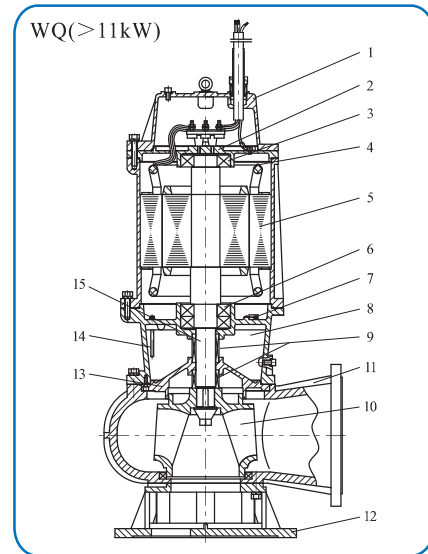
No.	Name	Material
1	Casing cover	Cast iron
3	Bearing	/
5	Motor	/
6	Bearing	/
8	Oil chamber	Cast iron
9	Mechanical seal	SiC/Tungsten carbide
10	Impeller	Cast iron
11	Casing	Cast iron
12	Base	Cast iron
15	Shaft	20Cr13
16	Thermal protector	/

● Sectional drawing

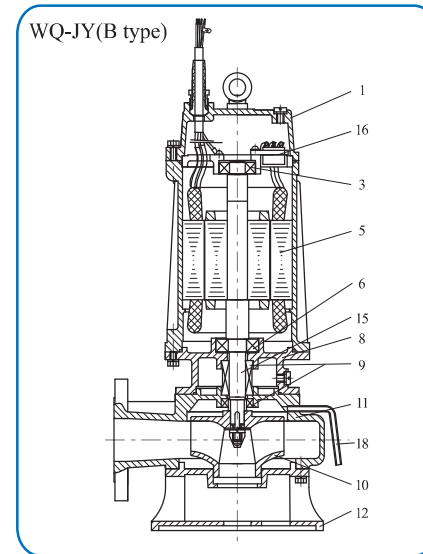


● Material

No.	Name	Material
1	Casing cover	Cast iron
3	Bearing	/
5	Motor	/
6	Bearing	/
8	Oil chamber	Cast iron
9	Mechanical seal	SiC/Tungsten carbide
10	Impeller	Cast iron
11	Casing	Cast iron
12	Base	Cast iron
15	Shaft	20Cr13
16	Thermal protector	/
17	Stir impeller	Cast iron



No.	Name	Material
1	Casing cover	Cast iron
2	Upper bearing seat	Cast iron
3	Bearing	/
4	Heat control switch	/
5	Motor	/
6	Bearing	/
7	Water in detector	/
8	Oil chamber	/
9	Mechanical seal	SiC/Tungsten carbide
10	Impeller	Cast iron
11	Casing	Cast iron
12	Base	Cast iron
13	Oil chamber cover	/
14	Oil water detector	/
15	Shaft	20Cr13

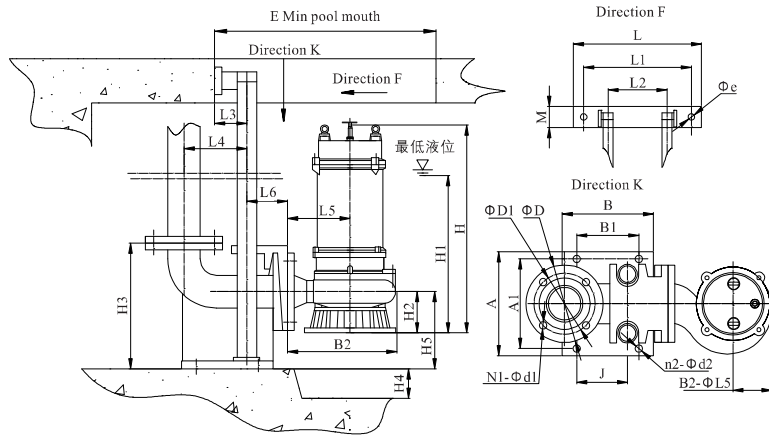


No.	Name	Material
1	Casing cover	Cast iron
3	Bearing	/
5	Motor	/
6	Bearing	/
8	Oil chamber	Cast iron
9	Mechanical seal	SiC/Tungsten carbide
10	Impeller	Cast iron
11	Casing	Cast iron
12	Base	Cast iron
15	Shaft	20Cr13
16	Thermal protector	/
18	Ejecting pipe	/

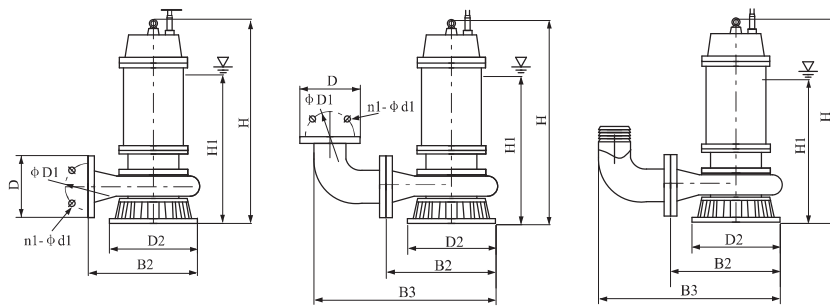
● Installation type

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

● Coupling device dimensions (same for WQ-QG)

Measure:mm

No.	Model	Flange connection size PN6			Coupling base dimensions						H3	H4	H5	L	L1	L2	M	Φe	L3	L4	L6	E
		D	D1	n1-Φd1	A	A1	B	B1	J	n2-Φd2												
1	40WQ	130	100	4-Φ14	108	65	138	68	68	4-Φ16	195	100	120	225	185	70	35	Φ14	65	125	85	550×550
2	50WQ	140	110	4-Φ14	197	168	208	130	120	4-Φ16	250	100	165	265	215	110	42	Φ14	66	135	90	550×550
3	65WQ	160	130	4-Φ14	238	200	252	175	162	4-Φ16	265	100	170	280	235	125	50	Φ14	70	185	85	650×600
4	80WQ	190	150	4-Φ19	255	220	225	153	125	4-Φ18	310	100	190	315	265	145	53	Φ14	80	155	100	650×600
5	100WQ	210	170	4-Φ19	293	265	258	175	140	4-Φ18	350	100	235	365	305	170	55	Φ15	100	200	110	650×600
6	150WQ	285	240	8-Φ23	400	300	410	300	210	4-Φ18	485	150	305	410	285	260	60	Φ15	100	300	190	1300×900
7	200WQ	340	295	8-Φ23	400	300	450	350	245	4-Φ18	550	200	330	410	285	260	60	Φ15	100	330	195	1300×900
8	250WQ	395	350	12-Φ23	460	370	570	430	325	4-Φ18	640	200	350	410	285	260	60	Φ15	100	395	195	1300×900
9	300WQ	445	400	12-Φ23	550	415	600	465	330	4-Φ25	730	200	415	530	350	196	65	Φ16	145	392	266	1500×1400
10	350WQ	505	460	16-Φ23	650	419	645	400	320	4-Φ25	855	200	480	520	350	196	65	Φ16	145	424	285	1500×1400

● Relevant dimensions

Measure:mm(Except inch)

Item	Diameter										
	DN40	DN50	DN65	DN80	DN100	DN150	DN200	DN250	DN300	DN350	
Guide rod tap pipe/ Seamless steel pipe	1"3/4×3.0			1.5"48×3				2"60×4			
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"7/50	2"7/50	2.5"7/65	3"7/80	4"7/100	6"7/150	8"7/200	10"7/250	12"7/300	14"7/350	

● Technical data and dimensions

No.	Model	Diameter	Q	H	Speed	Power	Rated current	Max. dia. of passing solid	Dimensions(mm)								Weight (kg)
		(mm)	(m ³ /h)	(m)	(rpm)	(kw)	(A)	(mm)	H	H1	B3	B2	L5	H2	D2		
1	40WQ10-10-0.75(JY)	40	10	10	2900	0.75	1.8	10	450	380	320	230	135	100	190	23	
2	50WQ10-10-0.75(JY)	50	10	10	2900	0.75	1.8	10	450	380	320	230	135	100	190	23	
3	40WQ8-15-1.1(JY)	40	8	15	2900	1.1	2.6	10	490	380	320	230	135	100	190	25	
4	50WQ15-8-1.1(JY)	50	15	8	2900	1.1	2.6	10	490	380	320	230	135	100	190	25	
5	50WQ8-15-1.1(JY)	50	8	15	2900	1.1	2.6	10	490	380	320	230	135	100	190	25	
6	40WQ12-15-1.5(JY)	40	12	15	2900	1.5	3.4	15	490	420	360	270	135	120	200	29	
7	50WQ15-10-1.5(JY)	50	15	10	2900	1.5	3.4	15	520	415	370	270	145	120	200	31	
8	50WQ10-15-1.5(JY)	50	10	15	2900	1.5	3.4	15	520	415	370	270	145	120	200	31	
9	50WQ15-15-2.2(JY)	50	15	15	2900	2.2	4.9	10	520	450	370	270	150	125	200	37	
10	50WQ25-10-2.2(JY)	50	25	10	2900	2.2	4.9	10	520	450	370	270	150	125	200	37	
11	50WQ9-22-2.2(JY)	50	9	22	2900	2.2	4.9	10	520	450	370	270	150	125	200	37	
12	50WQ20-18-2.2(JY)	50	20	18	2900	2.2	4.9	10	520	450	370	270	150	125	200	37	
13	50WQ15-20-2.2(JY)	50	15	20	2900	2.2	4.9	10	520	450	370	270	150	125	200	37	
14	50WQ20-25-3(JY)	50	20	25	2900	3	6.3	25	550	480	380	280	160	125	210	43	
15	50WQ15-30-3(JY)	50	15	30	2900	3	6.3	25	550	480	380	280	160	125	210	43	
16	50WQ15-35-4(JY)	50	15	35	2900	4	8.1	25	580	500	395	295	160	132	250	61	
17	50WQ15-40-5.5(JY)	50	15	40	2900	5.5	11.0	30	600	520	410	310	185	132	250	68	
18	50WQ20-30-5.5(JY)	50	20	30	2900	5.5	11.0	30	600	520	410	310	185	132	250	68	
19	50WQ20-40-7.5(JY)	50	20	40	2900	7.5	14.9	25	690	590	445	345	185	140	250	95	
20	50WQ25-35-7.5(JY)	50	25	35	2900	7.5	14.9	25	690	590	445	345	185	140	250	95	
21	65WQ25-7-1.5(JY)	65	25	7	2900	1.5	3.4	15	525	455	390	280	160	125	250	28	
22	65WQ35-7-2.2(JY)	65	35	7	2900	2.2	4.9	30	525	455	390	280	160	125	230	38	
23	65WQ25-10-2.2(JY)	65	25	10	2900	2.2	4.9	30	525	455	390	280	160	125	200	38	
24	65WQ25-15-3(JY)	65	25	15	2900	3	6.3	30	545	475	390	280	160	125	200	42	
25	65WQ37-13-3(JY)	65	37	13	2900	3	6.3	30	545	475	390	280	160	125	200	42	
26	65WQ40-10-3(JY)	65	40	10	2900	3	6.3	30	545	475	390	280	160	125	200	42	
27	65WQ20-25-4(JY)	65	20	25	2900	4	8.1	30	580	500	405	295	180	132	240	60	
28	65WQ30-30-5.5(JY)	65	30	30	2900	5.5	11.0	30	605	525	405	295	160	132	250	65	
29	65WQ20-40-7.5(JY)	65	20	40	2900	7.5	14.9	25	690	590	455	355	185	140	250	73	
30	80WQ45-9-2.2(JY)	80	45	9	2900	2.2	4.9	30	540	450	400	280	165	125	230	41	
31	80WQ40-12-3(JY)	80	40	12	2900	3	6.3	30	540	470	400	280	170	125	230	43	
32	80WQ40-15-4(JY)	80	40	15	2900	4	8.1	30	600	520	425	315	180	140	230	61	
33	80WQ50-10-4(JY)	80	50	10	2900	4	8.1	30	600	520	425	315	180	140	230	61	
34	80WQ65-15-5.5(JY)	80	65	15	2900	5.5	11.0	30	625	545	425	315	185	140	250	74	
35	80WQ40-22-5.5(JY)	80	40	22	2900	5.5	11.0	30	625	545	425	315	185	140	250	74	

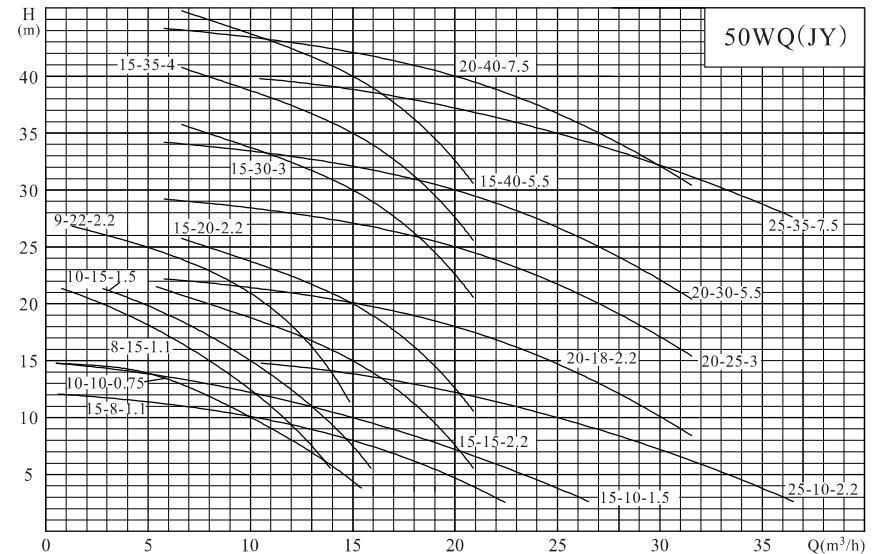
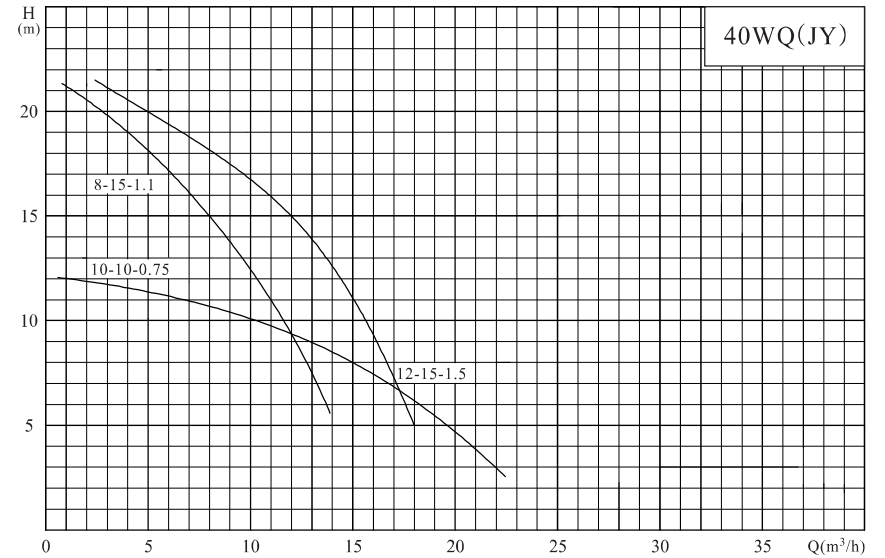
● Technical data and dimensions

No.	Model	Diameter	Q	H	Speed	Power	Rated current	Max. dia. of passing solid	Dimensions(mm)								Weight (kg)
		(mm)	(m ³ /h)	(m)	(rpm)	(kw)	(A)	(mm)	H	H1	B3	B2	L5	H2	D2		
36	80WQ40-30-7.5(JY)	80	40	30	2900	7.5	14.9	30	710	610	510	365	195	146	360	100	
37	80WQ40-45-11(JY)	80	40	45	2900	11	22.0	30	850	780	500	365	195	185	360	120	
38	100WQ40-8-2.2(JY)	100	40	8	2900	2.2	4.9	30	542	472	420	300	180	140	230	41	
39	100WQ50-7-2.2(JY)	100	50	7	2900	2.2	4.9	30	542	472	420	300	180	140	230	41	
40	100WQ60-9-3(JY)	100	60	9	2900	3	6.3	30	562	492	420	300	180	140	230	46	
41	100WQ65-10-4(JY)	100	65	10	2900	4	8.1	30	600	520	435	315	190	140	230	62	
42	100WQ100-6-4(JY)	100	100	6	2900	4	8.1	30	600	520	435	315	190	140	230	62	
43	100WQ65-15-5.5(JY)	100	65	15	2900	5.5	11.0	30	625	545	435	315	195	140	250	74	
44	100WQ100-10-5.5(JY)	100	100	10	2900	5.5	11.0	30	625	545	435	315	195	140	250	74	
45	100WQ45-22-7.5(JY)	100	45	22	2900	7.5	14.9	35	710	610	525	365	205	151	360	103	
46	100WQ65-20-7.5(JY)	100	65	20	2900	7.5	14.9	35	710	610	525	365	205	151	360	103	
47	100WQ80-15-7.5(JY)	100	80	15	2900	7.5	14.9	35	710	610	525	365	205	151	360	103	
48	100WQ100-15-7.5(JY)	100	100	15	2900	7.5	14.9	35	710	610	525	365	205	151	360	103	
49	100WQ80-25-11(JY)	100	80	25	1450	11	21.3	45	910	710	685	540	325	210	420	217	
50	100WQ80-30-15(JY)	100	80	30	1450	15	28.8	45	950	750	685	540	325	210	420	239	
51	100WQ80-35-18.5(JY)	100	80	35	1450	18.5	34.7	40	1060	850	930	550	325	210	420	285	
52	150WQ100-7-5.5(JY)	150	100	7	2900	5.5	11.0	45	720	560	495	320	195	145	250	76	
53	150WQ100-10-7.5(JY)	150	100	10	2900	7.5	14.9	45	800	630	565	330	200	180	360	128	
54	150WQ145-9-7.5(JY)	150	145	9	1450	7.5	14.9	45	800	630	565	330	200	180	360	128	
55	150WQ150-12-11(JY)	150	150	12	1450	11	21.3	45	950	750	760	560	350	240	420	220	
56	150WQ180-15-15(JY)	150	180	15	1450	15	28.8	50	990	790	760	560	350	240	420	242	
57	150WQ200-10-15(JY)	150	200	10	1450	15	28.8	50	990	790	760	560	350	240	420	242	
58	150WQ180-20-18.5(JY)	150	180	20	1450	18.5	34.7	50	1080	1030	820	620	350	240	620	290	
59	150WQ150-24-18.5(JY)	150	150	24	1450	18.5	34.7	50	1080	1030	820	620	350	240	620	290	
60	150WQ200-15-18.5(JY)	150	200	15	1450	18.5	34.7	50	1080	1030	820	620	350	240	620	290	
61	150WQ200-20-22(JY)	150	200	20	1450	22	41.0	45	1130	880	1125	560	380	240	420	300	
62	150WQ180-25-22(JY)	150	180	25	1450	22	41.0	45	1130	880	1125	560	380	240	420	300	
63	150WQ200-25-30(JY)	150	200	25	1450	30	56.0	50	1240	1000	1215	650	400	240	470	350	
64	150WQ150-35-37	150	150	35	1450	37	68.0	50	1240	1000	1165	725	450	270	470	440	
65	150WQ200-30-37	150	200	30	1450	37	68.0	50	1240	1000	1165	725	450	270	470	440	
66	150WQ180-40-45	150	180	40	1450	45	82.1	40	1290	1030	1195	755	480	300	470	540	
67	200WQ300-7-11(JY)	200	300	7	1450	11	21.3	55	960	760	845	580	355	240	420	230	
68	200WQ300-8-15(JY)	200	300	8	1450	15	28.8	55	1000	800	845	580	355	240	420	250	
69	200WQ250-11-15(JY)	200	250	11	1450	15	28.8	55	1000	800	845	580	355	240	420	250	

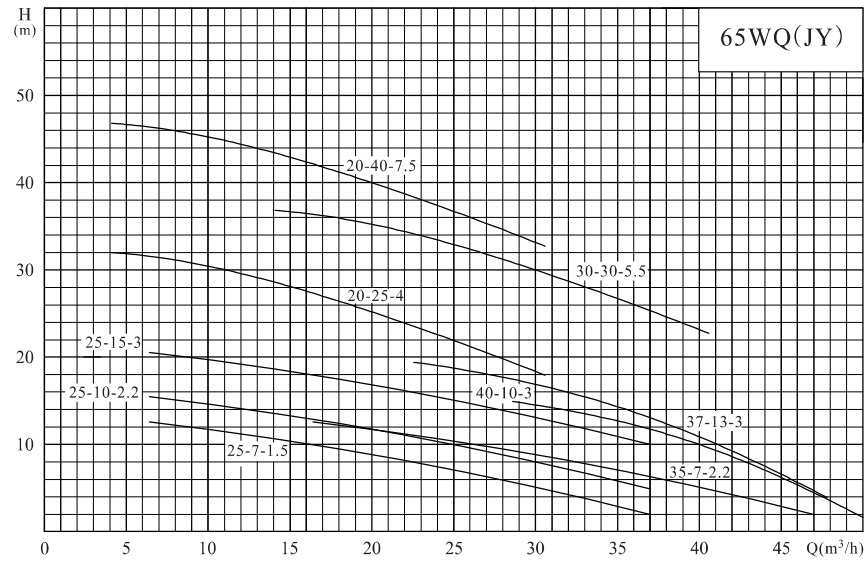
● Technical data and dimensions

No.	Model	Diameter	Q	H	Speed	Power	Rated current	Max. dia. of passing solid	Dimensions(mm)								Weight (kg)
		(mm)	(m ³ /h)	(m)	(rpm)	(kw)	(A)	(mm)	H	H1	B3	B2	L5	H2	D2		
70	200WQ250-15-18.5(JY)	200	250	15	1450	18.5	34.7	50	1120	850	1205	580	355	250	420	300	
71	200WQ300-9-18.5(JY)	200	300	9	1450	18.5	34.7	50	1120	850	1205	580	355	250	420	300	
72	200WQ300-15-22(JY)	200	300	15	1450	22	41.0	55	1150	890	1205	580	355	250	420	310	
73	200WQ400-10-22(JY)	200	400	10	1450	22	41.0	55	1150	890	1205	580	355	250	420	310	
74	200WQ250-22-30	200	250	22	1450	30	55.5	55	1240	1000	1245	620	380	285	470	370	
75	200WQ360-15-30	200	360	15	1450	30	55.5	55	1240	1000	1245	620	380	285	470	370	
76	200WQ400-13-30	200	400	13	1450	30	55.5	55	1240	1000	1245	620	380	285	470	370	
77	200WQ300-20-37	200	300	20	1450	37	67.9	55	1260	1020	1245	620	380	285	470	420	
78	200WQ350-25-37	200	350	25	1450	37	67.9	55	1260	1020	1245	620	380	285	470	420	
79	200WQ400-18-37	200	400	18	1450	37	67.9	55	1260	1020	1245	620	380	285	470	420	
80	200WQ250-35-45	200	250	35	1450	45	82.1	55	1320	1100	1245	620	380	285	470	500	
81	200WQ400-25-45	200	400	25	1450	45	82.1	55	1320	1100	1245	620	380	285	470	500	
82	200WQ250-40-55	200	250	40	1450	55	101.1	55	1500	1150	1345	720	458	335	560	580	
83	200WQ400-30-55	200	400	30	1450	55	101.1	55	1500	1150	1345	720	458	335	560	580	
84	200WQ350-40-75	200	350	40	1450	75	134.0	50	1550	1250	1345	720	458	335	560	670	
85	250WQ600-9-30	250	600	9	1450	30	55.5	70	1290	1050	1375	660	390	330	470	345	
86	250WQ600-12-37	250	600	12	1450	37	67.9	70	1320	1080	1375	660	390	330	470	345	
87	250WQ800-12-45	250	800	12	1450	45	82.1	70	1360	1100	1375	660	390	330	470	486	
88	250WQ600-15-45	250	600	15	1450	45	82.1	70	1360	1100	1375	660	390	330	470	486	
89	250WQ600-20-55	250	600	20	1450	55	101.1	70	1500	1150	1435	720	458	390	560	595	
90	250WQ600-25-75	250	600	25	1450	75	134.0	65	1520	1180	1435	720	458	390	560	800	
91	250WQ600-30-90	250	600	30	1450	90	160.2	65	1580	1200	1435	720	458	390	560	1150	
92	300WQ800-8-37	300	800	8	960	37	67.9	70	1440	1200	1475	720	410	380	470	1110	
93	300WQ500-15-45	300	500	15	960	45	82.1	70	1490	1250	1475	720	410	305	470	1200	
94	300WQ800-12-45	300	800	12	960	45	82.1	70	1490	1250	1475	720	410	305	470	1200	
95	300WQ600-20-55	300	600	20	1450	55	101.1	70	1490	1250	1475	720	460	400	560	1000	
96	300WQ800-20-75	300	800	20	1450	75	134.0	80	1570	1170	1475	720	460	400	560	621	
97	300WQ950-20-90	300	950	20	960	90	179.0	85	1570	1170	1475	720	460	400	560	1210	
98	300WQ1000-25-110	300	1000	25	1450	110	195.4	85	2080	1500	1595	840	510	380	600	1050	
99	350WQ1500-7-45	350	1500	7	740	45	82.1	85	1500	1250	1530	710	480	280	500	780	
100	350WQ1100-10-55	350	1100	10	960	55	101.1	85	1500	1200	1590	770	510	380	560	828	
101	350WQ1200-13-75	350	1200	13	960	75	134.0	85	1520	1200	1590	770	510	380	560	880	
102	350WQ1300-10-75	350	1300	10	960	75	134.0	85	1520	1200	1590	770	510	380	560	880	
103	350WQ1130-18-90	350	1130	18	960	90	160.2	85	2365	1200	1590	770	510	380	560	1000	
104	350WQ1200-15-90	350	1200	15	960	90	160.2	85	2365	1200	1590	770	510	380	560	1000	

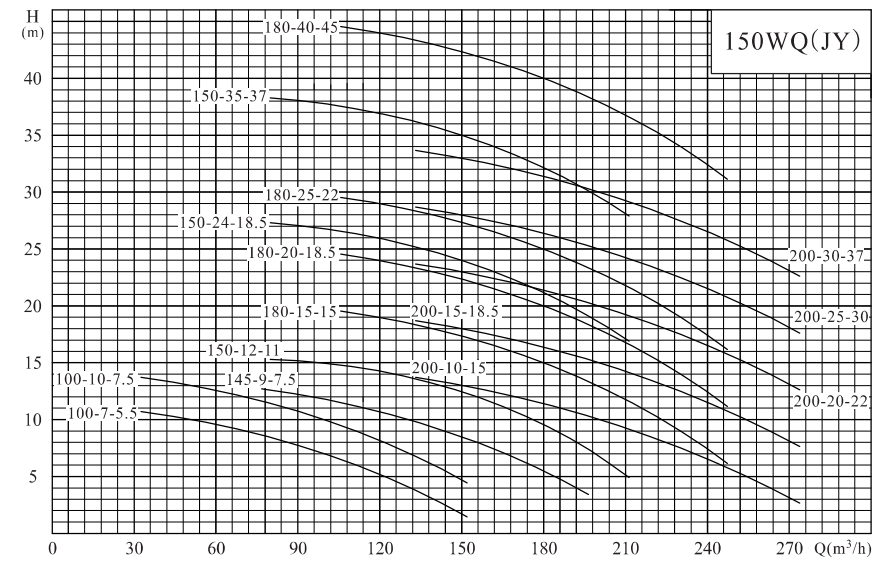
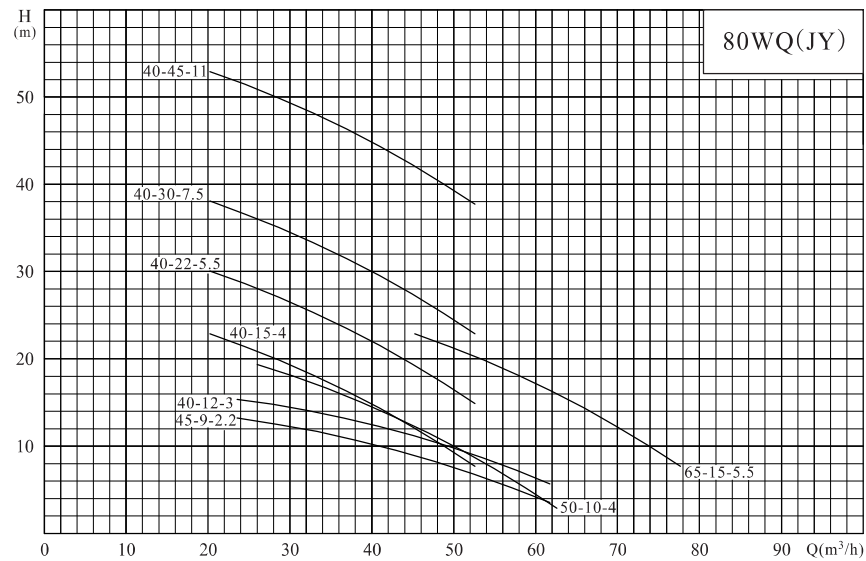
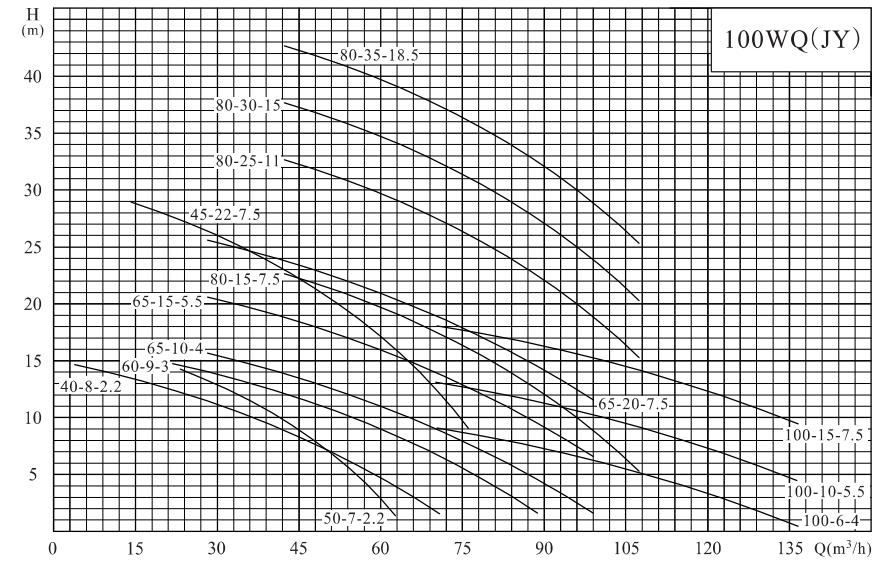
● Performance curve



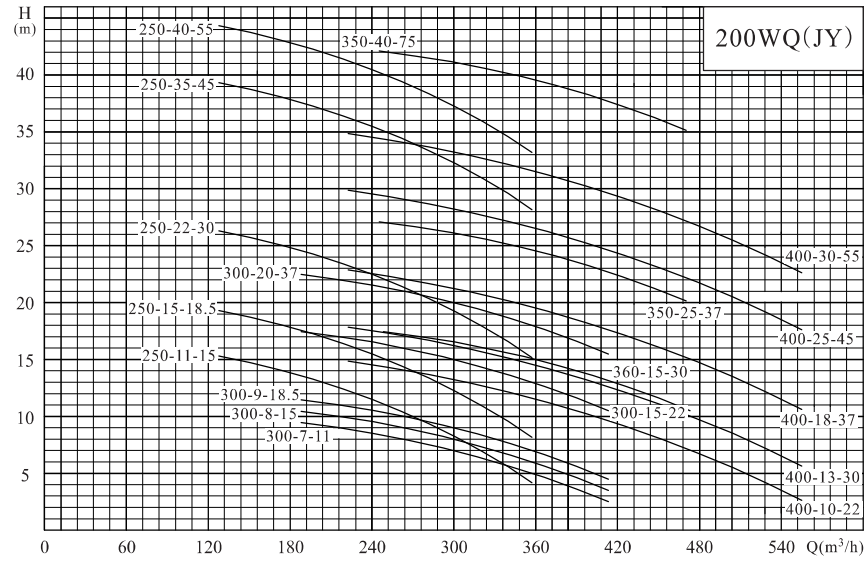
● Performance curve



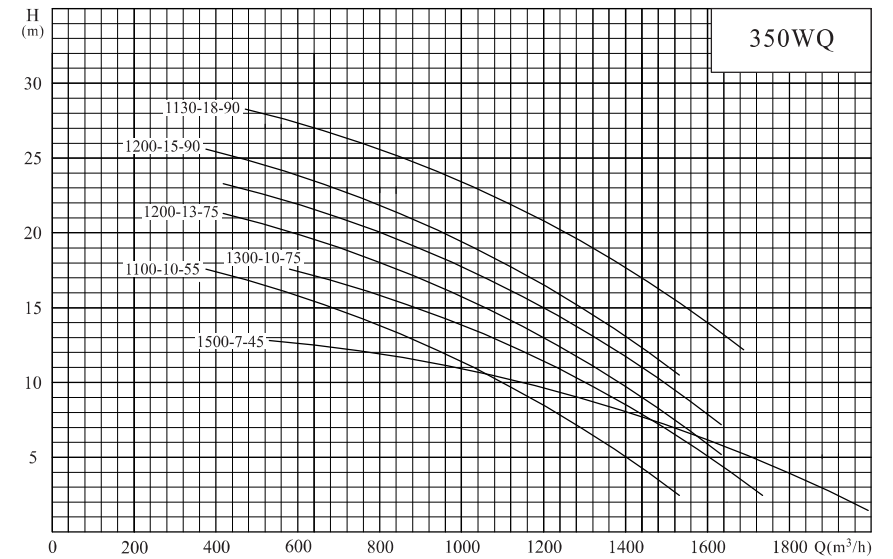
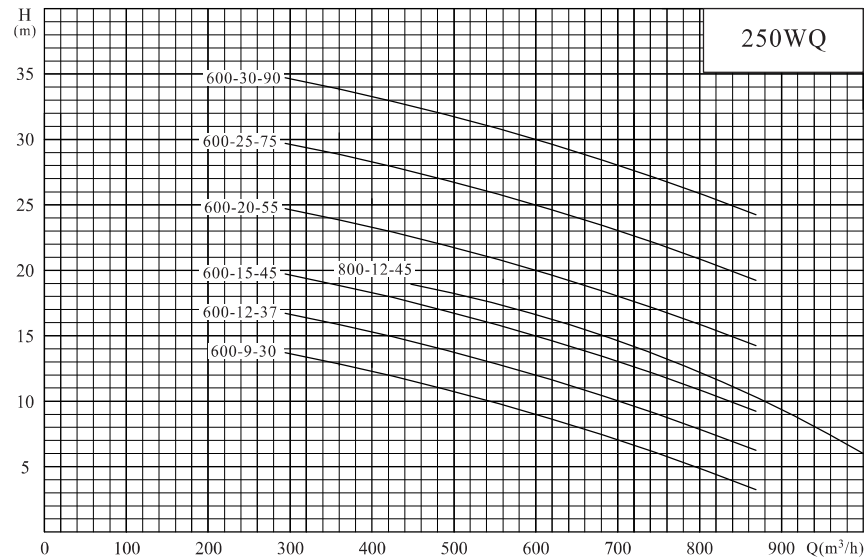
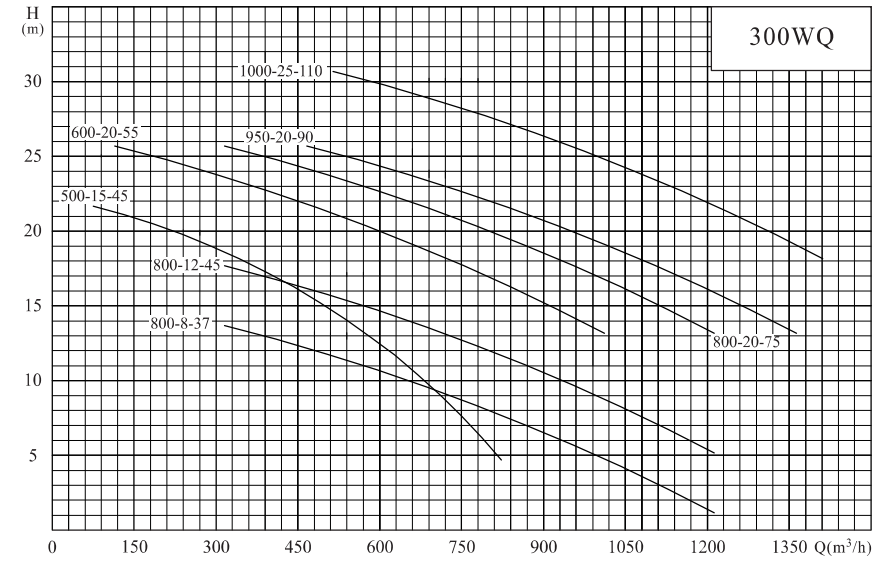
● Performance curve



● Performance curve



● Performance curve



WQ-F Summary

●WQ-F full stainless steel sewage submersible pump improve the same type pumps of the local and overseas. It is specially for miners, buildings, municipal projects, sewage treatment applications.

●Wet parts of pump are made of casting stainless steel. It is self non polluted and anti corrosive, it expands the drainage applications area.

●High efficient, good structure, non-clogging,anti-twisting, small space, light weight, running safe and reliable, long service time.

●The on request two guides auto coupling device system, it is convenient for pump installation.

●Two faces mechanical seal, use tungsten carbide, it can works more than 10000 hours.

●There is auto coupling device installation (Z), hard pipe movable installation(Y), soft pipe movable installation(R)

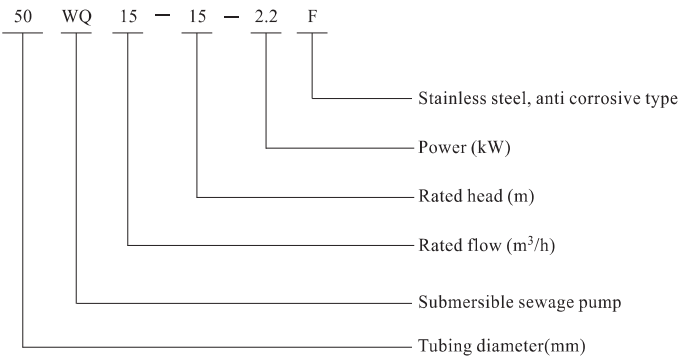
Application

- Projects, industrial enterprises, municipal projects, etc. sewage water treatment system.
- Sewage transportation in the municipal sewage system.
- Prospection, mines, etc.
- Sewage water drainage for food, hospital, sea water, ship.
- Irrigation, fen, aquaculture, sprinkle, etc.

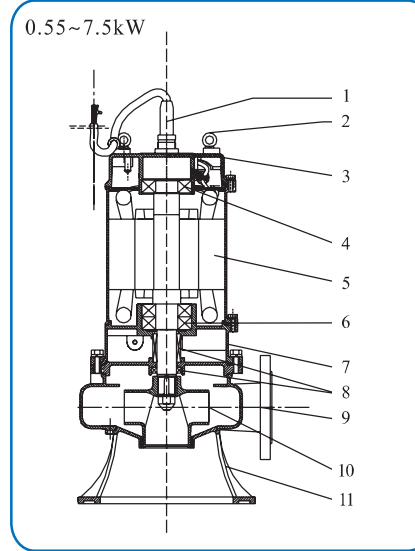
Working conditions

- Power supply: 50Hz, 3 × 380V
- Medium temperature < 60°C , PH value is 2-12, medium density < 1200kg/m³, solid and liquid ratio < 2%.
- When working, motor on liquid level shall more than 1/2 of the whole motor.

Definition of model

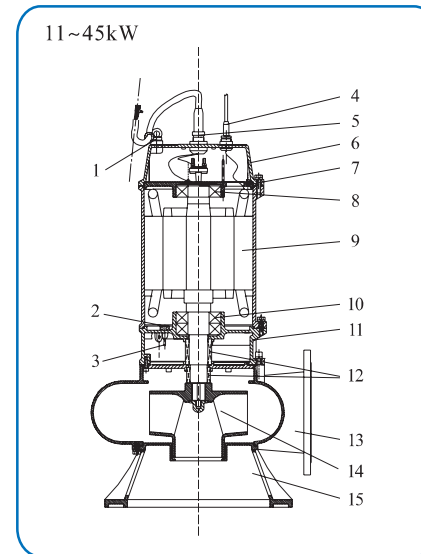


Sectional drawing



Material

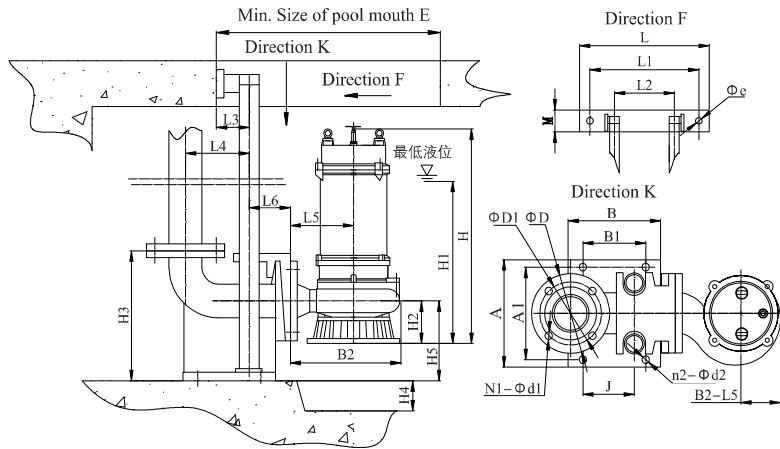
No.	Name	Material
1	Cable and seal	/
2	Eye-bolt	/
3	Casing cover	06Cr19Ni10
4	Bearing	/
5	Motor	/
6	Bearing	/
7	Oil chamber	06Cr19Ni10
8	Mechanical seal	SiC/Tungsten carbide
9	Casing	06Cr19Ni10
10	Impeller	06Cr19Ni10
11	Base	06Cr19Ni10



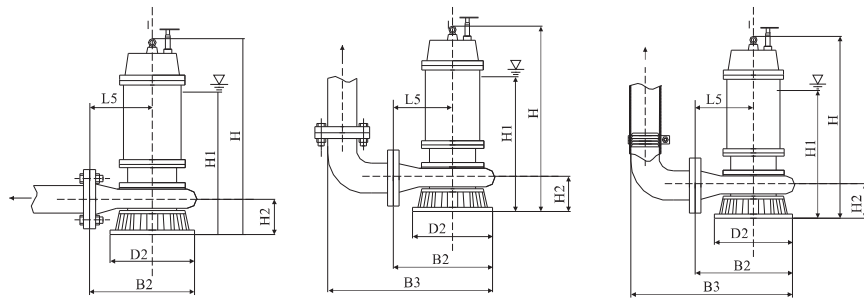
No.	Name	Material
1	Eye-bolt	/
2	Water leak detector	/
3	Oil water detector	/
4	Control cable and seal	/
5	Power cable and seal	/
6	Casing cover	06Cr19Ni10
7	Upper bearing bracket	/
8	Bearing	/
9	Motor	/
10	Bearing	/
11	Oil chamber	06Cr19Ni10
12	Mechanical seal	SiC/Tungsten carbide
13	Casing	06Cr19Ni10
14	Impeller	06Cr19Ni10
15	Base	06Cr19Ni10

● Installation type

Fixed auto coupling device installation



Movable installation



Hard pipe movable installation

Hard pipe movable installation with flange joint

Soft pipe movable installation

● Coupling device dimensions

Measure:mm

No.	Model	Flange connection size PN6			Coupling base dimensions							H3	H4	H5	L	L1	L2	M	φe	L3	L4	L6	E
		D	DI	n1-φd1	A	A1	B	B1	J	n2-φd2													
1	50WQF	165	125	4-Φ19	180	140	270	190	214	4-Φ19	240	100	120	220	180	60	44	12	50	152	52	550×500	
2	65WQF	180	145	4-Φ19	190	150	280	190	221	4-Φ19	240	100	120	220	180	60	44	12	50	149	55	650×600	
3	80WQF	195	160	8-Φ19	210	170	300	210	237	4-Φ19	270	150	130	250	210	80	50	15	57	165	63	650×600	
4	100 WQF	215	180	8-Φ19	230	190	300	210	237	4-Φ19	300	150	140	250	210	80	50	15	57	185	63	650×600	
5	150 WQF	280	240	8-Φ23	300	250	460	330	367	4-Φ28	380	150	180	330	280	120	50	19	62	305	76	1300×900	
6	200 WQF	335	295	8-Φ23	400	372	420	324	248	4-Φ18	508	200	277	410	370	192	50	15	78	200	156	1400×900	
7	250 WQF	395	350	12-Φ23	420	360	580	450	471	4-Φ28	500	200	240	340	280	160	70	23	115	359	95	1300×900	
8	300 WQF	445	400	12-Φ23	460	400	630	500	521	4-Φ28	560	200	300	380	320	200	70	23	115	400	95	1400×900	

● Relevant dimensions

Measure:mm(Except inch)

Item	Diameter	DN 50	DN 65	DN 80	DN 100	DN 150	DN 200	DN 250	DN 300
Guide rod tap pipe/ Seamless steel pipe		1"3/4×3.0			1.5"48×3				
Guide rod length		Pool depth-H2-H4-H5-M/2-15+L0+H6							
Quantity and specification of expansion bolt		2-M10×150			2-M12×150				
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"7/50	2.5"7/65	3"7/76	4"7/100	6"7/150	8"7/200	10"7/250	12"7/300

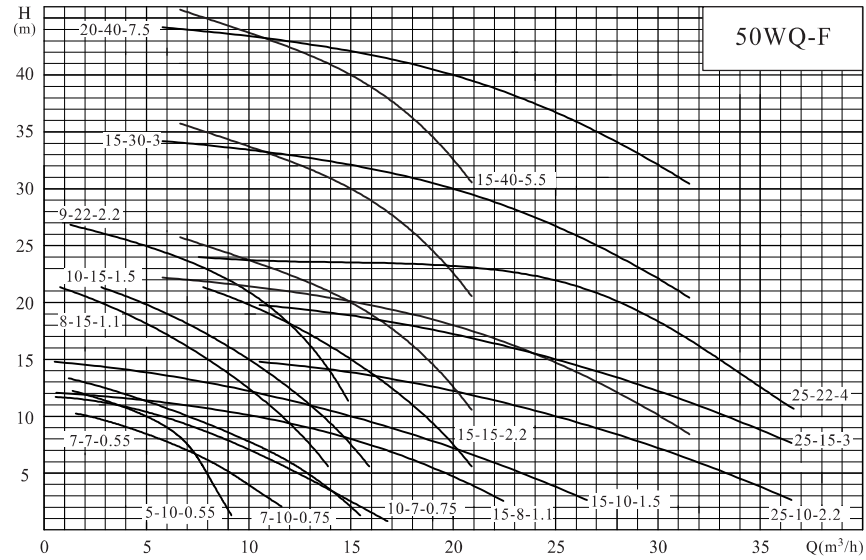
● Technical data and dimensions

No.	Model	Diameter	Q	H	Speed	Power	Rated current	Max. dia. of passing solid	Dimensions(mm)								Weight (kg)
		(mm)	(m ³ /h)	(m)	(rpm)	(kw)	(A)	(mm)	H	H1	B3	B2	L5	D2	H2		
1	50WQ7-7-0.55F	50	7	7	2900	0.55	1.8	6	416	328	320	230	135	188	98	22	
2	50WQ5-10-0.55F		5	10													
3	50WQ7-10-0.75F	50	7	10	2900	0.75	1.8	10	450	380	320	230	135	188	100	23	
4	50WQ10-7-0.75F		10	7													
5	50WQ15-8-1.1F	50	15	8	2900	1.1	2.6	10	490	380	320	230	135	188	100	25	
6	50WQ8-15-1.1F		8	15													
7	50WQ15-10-1.5F	50	15	10	2900	1.5	3.4	15	520	415	370	270	145	200	120	31	
8	50WQ10-15-1.5F		10	15													
9	50WQ15-15-2.2F	50	15	15	2900	2.2	4.9	10	520	450	370	270	150	200	125	37	
10	50WQ25-10-2.2F		25	10													
11	50WQ9-22-2.2F		9	22													
12	50WQ15-30-3F	50	15	30	2900	3	6.3	25	593	523	380	280	160	200	168	43	
13	50WQ25-15-3F		25	15													
14	50WQ25-22-4F	50	25	22	2900	4	8.1	25	615	535	395	295	160	240	167	61	
15	50WQ15-40-5.5F	50	15	40	2900	5.5	11.0	30	635	555	410	310	185	320	167	68	
16	50WQ20-40-7.5F	50	20	40	2900	7.5	14.9	25	745	645	445	345	185	320	195	75	
17	65WQ35-8-2.2F	65	35	8	2900	2.2	4.9	30	568	498	390	280	160	225	168	38	
18	65WQ25-15-3F	65	25	15	2900	3	6.3	30	588	518	390	280	160	225	168	42	
19	65WQ35-10-3F		35	10													
20	65WQ40-15-4F	65	40	15	2900	4	8.1	30	615	535	405	295	180	240	167	60	
21	65WQ30-22-5.5F	65	30	22	2900	5.5	11.0	30	640	560	405	295	160	240	167	65	
22	80WQ50-8-3F	80	50	8	2900	3	6.3	30	583	513	400	280	170	240	168	41	
23	80WQ50-10-4F	80	50	10	2900	4	8.1	30	635	555	425	315	180	240	175	61	
24	80WQ65-15-5.5F	80	65	15	2900	5.5	11.0	30	660	580	425	315	185	240	175	74	
25	80WQ45-22-7.5F	80	45	22	2900	7.5	14.9	30	765	665	510	365	195	320	201	100	
26	80WQ30-40-11F	80	30	40	2900	11	22	30	905	835	500	365	195	440	240	120	
27	100WQ75-7-4F	100	75	7	2900	4	8.1	30	635	555	435	315	190	240	140	62	
28	100WQ70-10-5.5F	100	70	10	2900	5.5	11.0	30	660	580	435	315	195	240	175	74	
29	100WQ100-8-5.5F		100	8													
30	100WQ70-15-7.5F	100	70	15	2900	7.5	14.9	35	765	665	525	365	205	320	206	103	
31	100WQ100-10-7.5F		100	10													

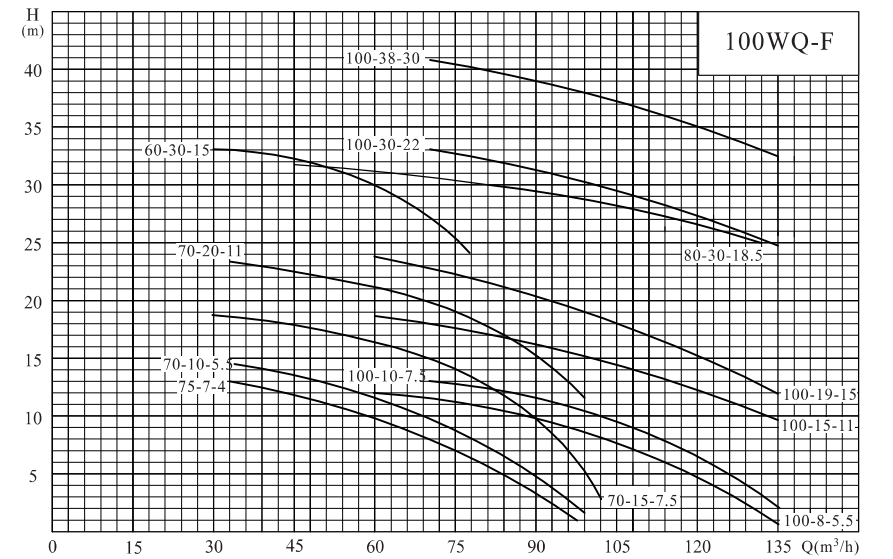
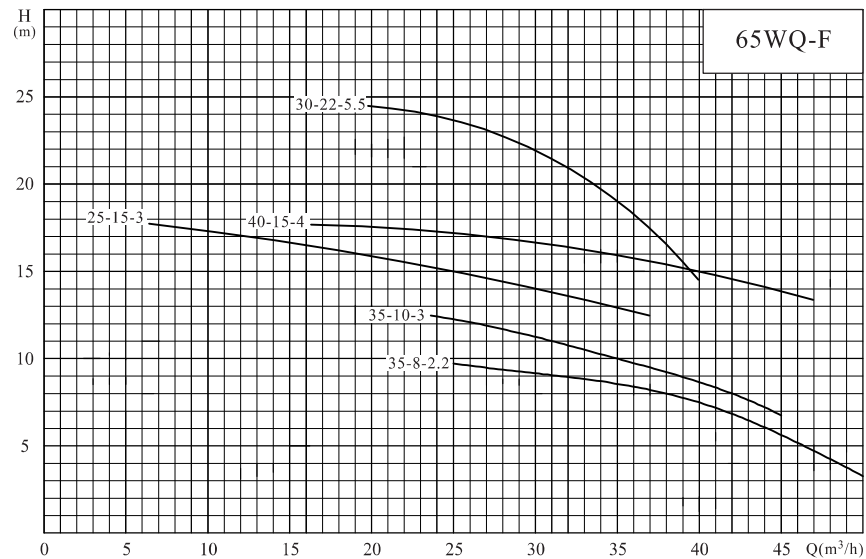
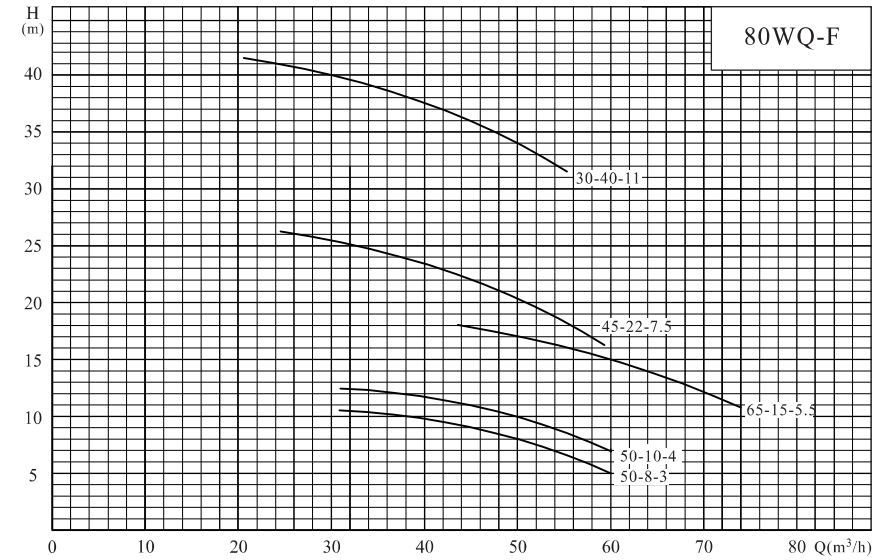
● Technical data and dimensions

序号	型号	泵出口直径	流量	扬程	转速	功率	电机电流	通过颗粒最大直径	外形尺寸(mm)								泵重量 (kg)
		(mm)	(m ³ /h)	(m)	(rpm)	(kw)	(A)	(mm)	H	H1	B3	B2	L5	D2	H2		
32	100WQ70-20-11F	100	70	20	1450	11	21.3	45	965	765	685	540	325	500	265	217	
33	100WQ100-15-11F		100	15													
34	100WQ60-30-15F	100	60	30	1450	15	28.8	45	1050	805	685	540	325	500	265	239	
35	100WQ100-19-15F		100	19													
36	100WQ80-30-18.5F	100	80	30	1450	18.5	34.7	40	1115	905	930	550	325	500	265	285	
37	100WQ100-30-22F	100	100	30	1450	22	41.0	40	1245	950	1030	680	420	550	275	300	
38	100WQ100-38-30F	100	100	38	1450	30	55.5	40	1315	1056	1060	710	450	550	275	370	
39	150WQ140-7-7.5F	150	140	7	2900	7.5	14.9	45	855	685	565	330	200	320	235	128	
40	150WQ140-10-11F	150	140	10	1450	11	21.3	45	1005	805	760	560	350	500	295	220	
41	150WQ200-10-15F	150	200	10	1450	15	28.8	50	1045	845	760	560	350	500	295	242	
42	150WQ140-15-18.5F	150	140	15	1450	18.5	34.7	50	1135	1085	820	620	350	500	295	290	
43	150WQ150-20-22F	150	150	20	1450	22	41.0	45	1185	935	1125	560	380	580	295	300	
44	150WQ200-15-22F		200	15													
45	150WQ200-20-30F	150	200	20	1450	30	56.0	50	1240	1000	1215	650	400	580	240	350	
46	150WQ150-35-37F	150	150	35	1450	37	68.0	50	1240	1000	1165	725	450	650	270	440	
47	150WQ200-30-37F		200	30													
48	150WQ180-40-45F	150	180	40	1450	45	82.1	40	1290	1030	1195	755	480	720	300	540	
49	200WQ300-7-15F	200	300	7	1450	15	28.8	55	1055	855	845	580	355	500	295	250	
50	200WQ250-15-18.5F	200	250	15	1450	18.5	34.7	50	1175	905	1205	580	355	580	305	300	
51	200WQ300-8-18.5F		300	8													
52	200WQ300-15-22F	200	300	15	1450	22	41.0	55	1205	945	1205	580	355	580	305	310	
53	200WQ400-10-30F	200	400	10	1450	30	55.5	55	1240	1000	1245	620	380	580	285	370	
54	200WQ300-20-37F	200	300	20	1450	37	67.9	55	1260	1020	1245	620	380	650	285	420	
55	200WQ250-30-45F	200	250	30	1450	45	82.1	55	1320	1100	1245	620	380	720	285	500	
56	200WQ400-25-45F		400	25													
57	250WQ600-9-30F	250	600	9	1450	30	55.5	70	1290	1050	1375	660	390	580	330	345	
58	250WQ600-12-37F	250	600	12	1450	37	67.9	70	1320	1080	1375	660	390	650	330	345	
59	250WQ600-15-45F	250	600	15	1450	45	82.1	70	1360	1100	1375	660	390	720	330	486	
60	300WQ800-7-30F	300	800	7	960	30	55.5	70	1440	1200	1475	720	410	580	305	1040	
61	300WQ800-10-37F	300	800	10	960	37	67.9	70	1440	1200	1475	720	410	650	380	1110	
62	300WQ800-12-45F	300	800	12	1450	45	82.1	70	1490	1250	1475	720	410	720	305	1200	

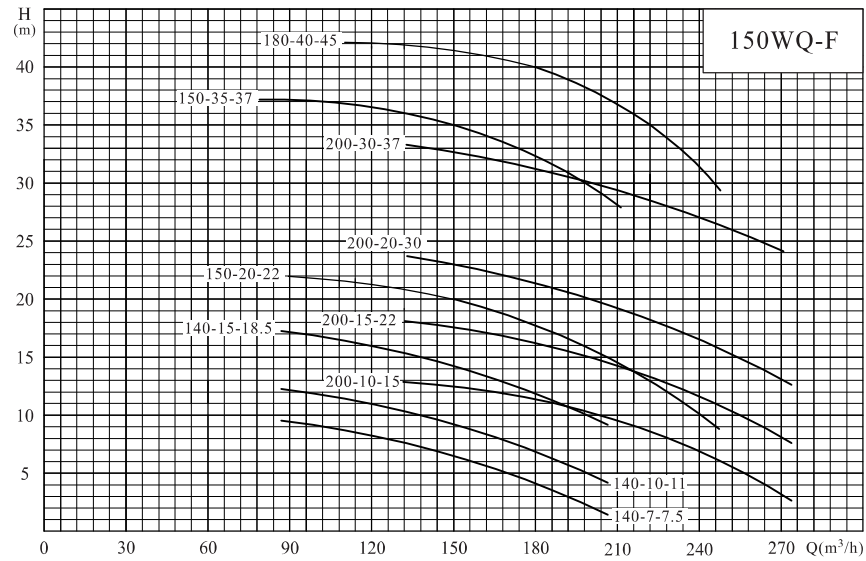
● Performance curve



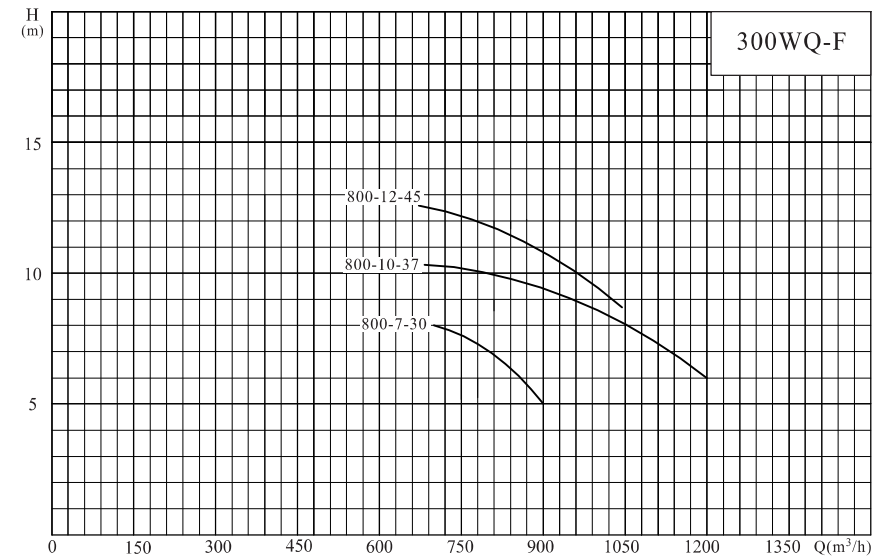
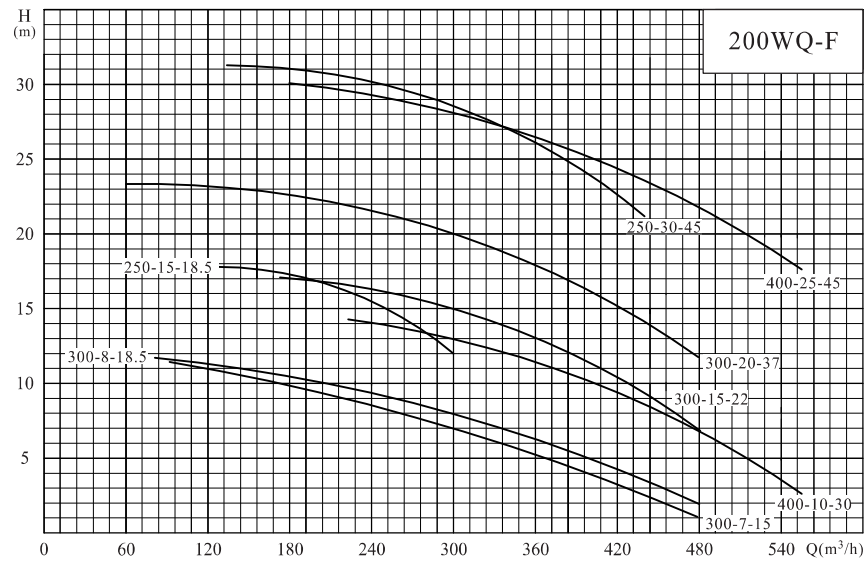
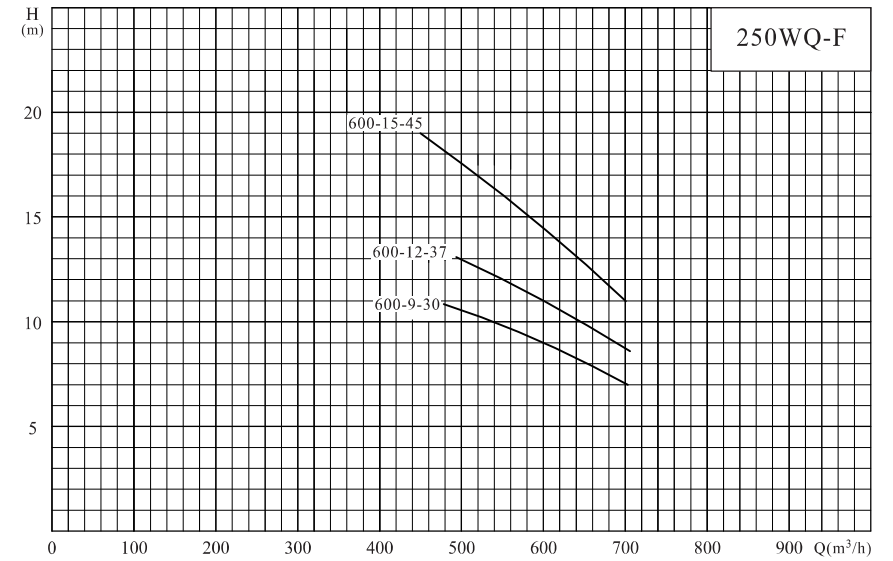
● Performance curve



● Performance curve



● Performance curve



WQ-QG submersible sewage pump

● Summary

- With the design of special chopper plate, WQ cutting type submersible sewage pump can crush foreign matters.
- There are three ways of installation: auto device installation, hard pipe movable installation, soft pipe movable installation. (same as WQ series)

● Application

- Sewage with foreign matter, domestic sewage and industrial sewage drainage.

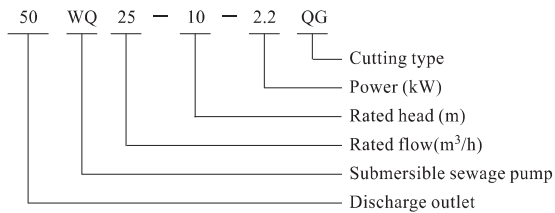
● Working conditions

- Power: 50Hz, 3X380V
- Medium temperature is less than 40°C; PH value is between 4 and 10; Density shall less than 1200kg/m³; Solid and liquid ratio shall less than 2%.
- When working, motor on liquid level shall not more than 1/2 of the whole motor.

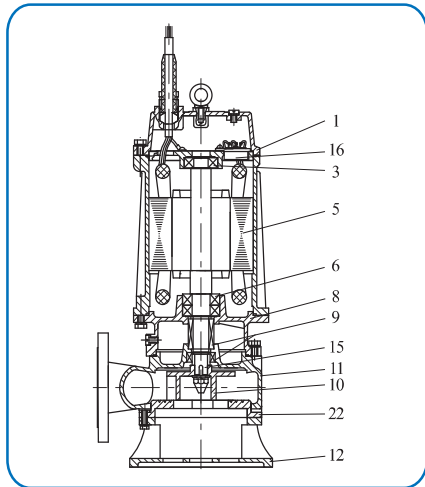
● Structure

The impeller is single channel non-block cutting impeller, the chopper plate placed between base and casing can regulate the axial clearance between cutting impeller. The shear effect of cutting wheel and chopper plate can chop and discharge any inhaled long fiber solids.

● Definition of model



● Sectional drawing



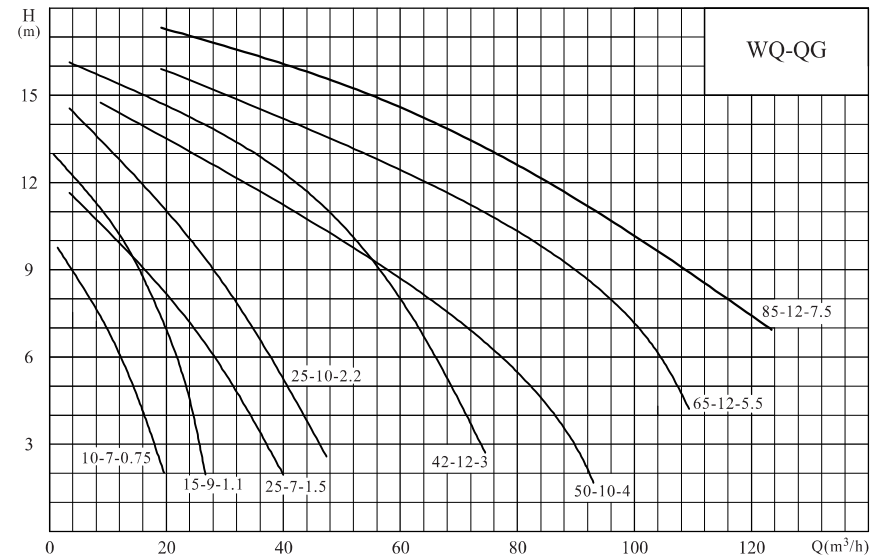
● Material

No.	Name	Material
1	Casing cover	Cast iron
3	Bearing	
5	Motor	
6	Bearing	
8	Oil chamber	Cast iron
9	Mechanical seal	SiC/Tungsten carbide
10	Impeller	Cast iron
11	Casing	Cast iron
12	Base	Cast iron
15	Shaft	20Cr13
16	Thermal protector	
22	Chopper plate	Steel

● Technical data and dimensions (Installation diagram please refer to page 33)

Model	Q	H	Speed	Power	Current	Dimensions(mm)								Weight (kg)	
	(m ³ /h)	(m)	(rpm)	(kW)	(A)	H	H1	B3	B2	D2	d	D	DI		n1-φ d1
50WQ10-7-0.75QG	10	7	2860	0.75	2.0	450	340	300	210	190	50	140	110	4-φ 14	20
50WQ15-9-1.1QG	15	9	2860	1.1	2.8	480	370	300	210	190	50	140	110	4-φ 14	23
50WQ25-7-1.5QG	25	7	2860	1.5	4.0	520	410	360	270	200	50	140	110	4-φ 14	28
50WQ25-10-2.2QG	25	10	2860	2.2	6.0	550	440	360	270	200	50	140	110	4-φ 14	30
80WQ42-12-3QG	42	12	2860	3	6.5	600	490	420	300	250	76	190	150	4-φ 18	57
80WQ50-10-4QG	50	10	2860	4	8.4	630	520	420	300	250	76	190	150	4-φ 18	60
100WQ65-12-5.5QG	65	12	2860	5.5	12.0	700	560	500	340	260	100	210	170	4-φ 18	85
100WQ85-12-7.5QG	85	12	2860	7.5	16.8	740	600	500	340	260	100	210	170	4-φ 18	94

● Performance curve



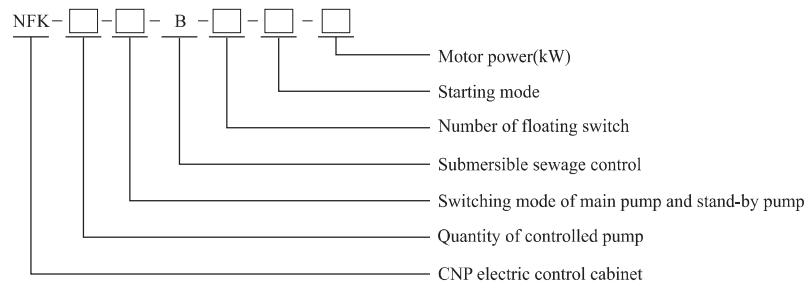
● **Summary**

NFK series electric control cabinets have the protection function of overload, short circuit and over-current. With the working mode of single pump and multiple pump control, switching mode of main pump and stand-by pump, and various starting mode, they can apply to automatic control of water supply and drainage of agricultural production and buildings, fire control and spray network pressure boost. With fine appearance, convenient installation and good quality, NFK series electric control cabinets are reliable partner of all kinds of pumps.

● **Product features**

- Can be used in all kinds of situation, e.g. domestic sewage disposal.
- Equipped with domestic and international famous brand and excellent cabinet body, well-designed, good in quality.
- Combination by arbitrary selection, the product has various starting mode, control mode and switching mode.
- Good service. Provide pre-sales consulting and after-sales service timely.

● **Definition of model**



Quantity of controlled pump

“1”stands for one control one; “2”stands for one control two; “3”stands for one control three. The above modes all have manual function. Each pump can work under manual function.

Switching mode of main pump and stand-by pump

“H”stands for ordinary type. User can select main pump and stand-by pump manually before starting the machine. When the main pump breakdown, the stand-by pump will start automatically. It is commonly used.

“AS” stands for timing automatic/manual switch. It can be used for timing alternation of main pump and stand-by pump. Regular switching time: 8-12 hours. User can switch from timing automatic switch to manual switch to manual to select main pump and stand-by pump. This type has the automatic switching function of stand-by pump.

“AC” stands for automatic/manual switch. Main pump and stand-by pump will alternate each time the machine starts. User can switch from automatic switch to manual switch to select main pump and stand-by pump. This type has the automatic switching function of stand-by pump.

Control mode

“B” stands for submersible sewage pump only. It controls components by floater. Except overload protection, short circuit protection and over-current protection, it has the function of casing leakage protection, motor overheating protection and residual current protection.

● **Starting mode**

If not indicate, it refers to direct starting; “JY:Y-Δ”stands for reduced voltage start; “JY(Z)”stands for autotransformer low-voltage start; “JY(R)”stands for soft starting.

● **Operation condition and installation condition**

- altitude shall not above 2000m, ambient temperature shall not above 45°C and less than -5°C, air relative humidity shall not more than 90% (if the temperature is 25°C).
- Situation with no water drop, steam, float dust, metal particle, direct sunlight, high temperature, dust fall, corrosive gas, flammable gas or liquid.
- Situation with no significant shake, shock and vibration.
- Sweep condensation on product’s surface which caused by temperature variation.
- Vertical installation.

● **Power requirement**

- Power inlet : three-phase-five-wire system
- Power: 50HZ, three phase 380V

● Supply range

Installation type	With the accessory	Optional part		Spares
Movable installation	Pump	Soft pipe	Control cabinet, end cabinet, butterfly valve non return valve, chains (for sinking pump)	Impeller, seal ring, bearing, mechanical seal
Soft pipe movable installation	Pump, Discharge bend			
Hard pipe movable installation	Pump, Elbow connection	Flange		
Auto coupling device installation	Pump, auto coupling device	Guide rod, footer bolt, expanding bolt		

● Ordering Instructions

1. Please note product model, name, performance data (flow, head), installation way, optional part, spare part etc. Please take into consideration the impact of medium density on power and the requirements of overcurrent sealing elements (corrosivity of medium, wear resistance).

2. If there is special requirement for the protection in the pump (oil detector, water detector, thermal element), please note when ordering. The control mode and automation requirement should be noted when ordering electric control cabinet.

3. The standard cable length for the submersible sewage pump is 9 m. If cable of other length is needed, please purchase at 5 meters intervals from 15 meters.

4. Please indicate the start method of pump.

Standard configuration: Direct starting (<37KW)

Star-delta starting (≥45KW).

Pumps with method of direct starting: U wire, V wire and W wire are drawn from the inner of pump.

Pumps with method of star-delta starting: U1 wire, V1 wire, W1 wire, U2 wire, V2 wire and W2 wire are drawn from the inner of pump.

5. The pressure level of the outlet of the pump is PN6.

China Head Quarter

ADD: No. 1 Hengyi Road, Qianjiang development zone, Yuhang District, Hangzhou, Zhejiang, China

Tel: +86-571-86397827

Fax: +86-571-86397809

E-mail: info@nanfang-pump.com

Site: http://www.cnppump.com

CNP Thailand & Myanmar

Regional Manager: Kevin

Tel: +86-17706438514

E-mail: kevin@nanfang-pump.com

CNP Philippines & Taiwan & Japan & Singapore

Regional Manager: Jermyn

Tel: +86 57186397810

E-mail: jermynqian@nanfang-pump.com

CNP Vietnam & Cambodia & Laos

Regional Manager: Clint

Tel: +00841228659383

Mob: +86-13588417527

E-mail: clintpan@nanfang-pump.com

CNP Russia

Regional Manager: Nikolay

Tel: +86-18601657518

E-mail: nikolayzuo@nanfang-pump.com

CNP Turkey & Israel & Iran & Africa

Regional Manager: Jamet

Tel: +86-571-86397810

E-mail: jametsun@nanfang-pump.com

CNP Middle East

Regional Manager: Jay

Tel: +86-18621044095

E-mail: jay.xu@nanfang-pump.com

CNP North America (America & Canada & Mexico)

Regional Manager: Michael

Tel: +86-21-62568753

E-mail: michaelwang@nanfang-pump.com

CNP South America

Regional Manager: Perky

Tel: +86-21-62568753

Mob: +86-18673445130

E-mail: perky@nanfang-pump.com

CNP Europe

Regional Manager: Morpheus

Tel: +86-13858196009

E-mail: morpheus@nanfang-pump.com