

WQ

Submersible sewage pump 50Hz



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Company Profile



Nanfang Pump Industry Co.,Ltd (CNP),as a subsidiary of Nanfang Zhongjin Environment Co.,Ltd, was founded in 1991,and listed on Shenzhen Stock Exchange on December 9,2010 with stock code 300145.

In 2018, CNP's annual output exceeded 800,000 units/set with nearly 3 billion sales revenue, growing at a double-digit rate every year . As a national enterprise technology center,CNP launched ultra-high efficient,new generation CDM (F) light vertical multistage centrifugal pump in 2017, $MEI \geq 0.7$.All light stainless steel pump product series grow stably. Intelligent water supply and drainage equipment technology take lead in industry.Fire pump and diesel engine have obtained UL certification.TD series in-line pump, NIS series end suction pump, NSC split casing pump, WQ sewage pump, metering pump, oil pump and other pump products, can meet various application needs of different fields.

CNP has a complete sales network both in domestic and overseas market ,exporting to over 60 countries and regions,maintaining long-term and strong relationship with our clients.CNP pumps have been widely applied in various fields like water treatment. water supply and drainage. HVAC. industrial application. seawater desalination. energy and power etc.

CNP, a green water expert beside you.

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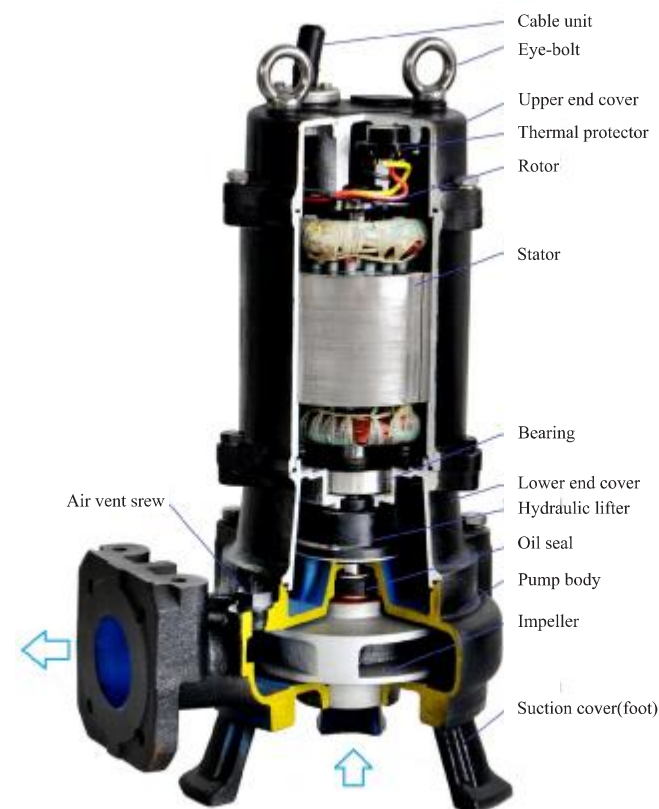
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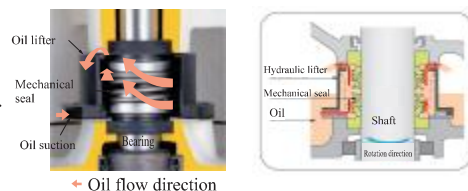
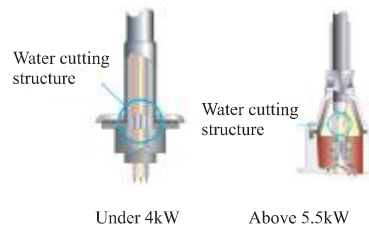
New generation submersible sewage pump



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.



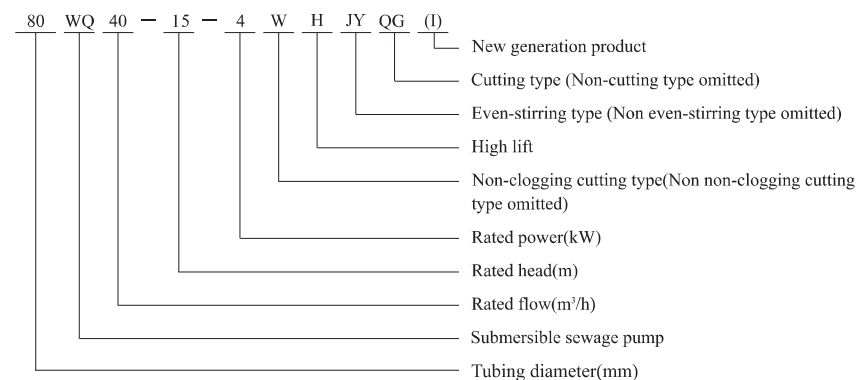
Application

- 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

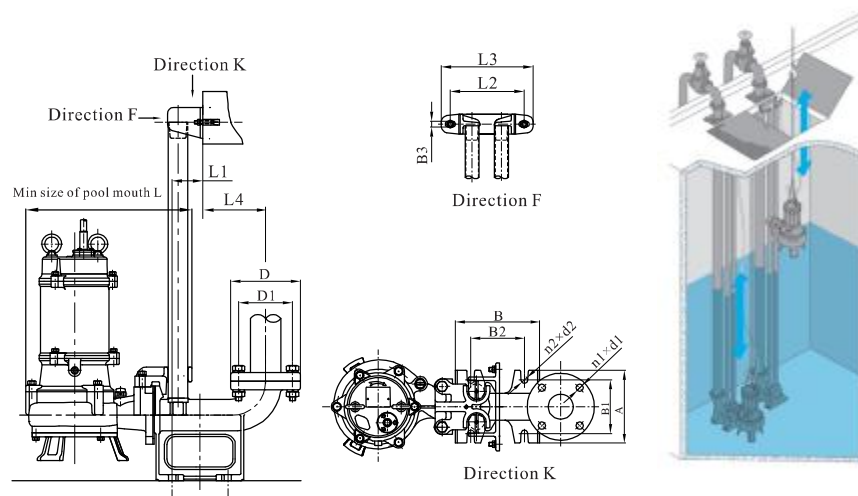
- Power Supply: 50Hz, 3×380V;
- Medium temperature shall less than 40℃, PH value is between 4 to 10. Medium density shall less than 1200kg/m³, solid and liquid ratio shall less than 2%.
- The lowest liquid level shall in conform to the lowest liquid in the size dimension.
- The pump is not suitable for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

Definition of model

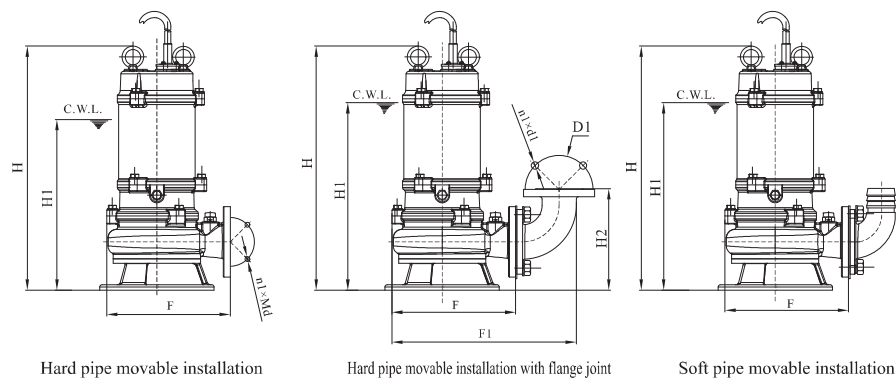


Installation type

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)						Measure:mm				
		D	D1	n1×d1	n1×Md	A	B	B1	B2	B3	n2×d2	L	L1	L2	L3	L4
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	1078	200	280	380	300
10	DN300	440	395	12-Φ23	12-M20	600	630	500	470	3-Φ18	4-Φ28	1205	270	400	700	300

Foot bracket is not included in coupling installation for cutting type pump with 2 pole motor and other types of pumps with 4 pole motor 5.5kW and above.

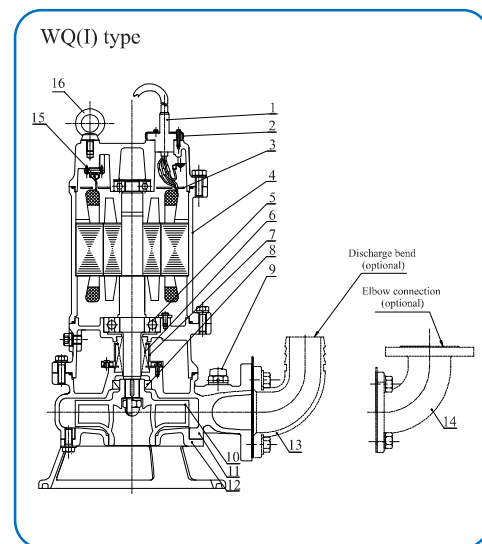
Relevant dimensions

Measure:mm(Except inch)

Diameter Item	DN40	DN50	DN65	DN80	DN100 TOS-100	DN100 TOS-100F	DN150 (TOS150)	DN150 (TO150)	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-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	120×120×400
Dia. of soft pipe	DN40	DN50	DN65	DN80	DN100 Using scope 2.2~15kW	DN100 Using scope 18.5~22kW	DN150 Using scope ≤22kW	DN150 Using scope ≥30kW	DN200	DN250	DN300

● WQ(I) type submersible sewage pump

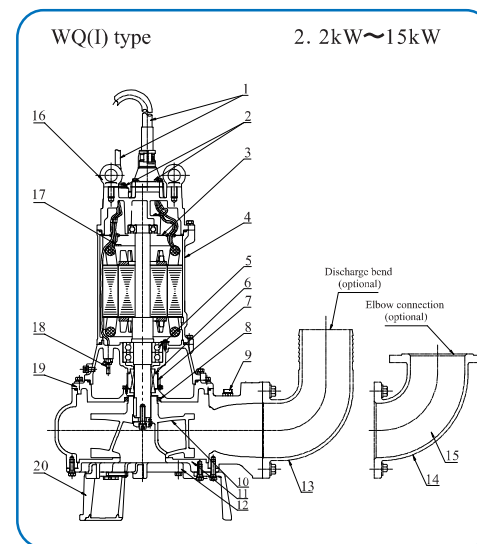
Sectional drawing of sewage pump with 2 pole motor



No.	Name	Material
1	Cable	YZW
2	Cable gland	/
3	Threading board	/
4	Electric motor	/
5	Bearing	/
6	Mechanical seal	Graphite/SIC SIC/SIC+C
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

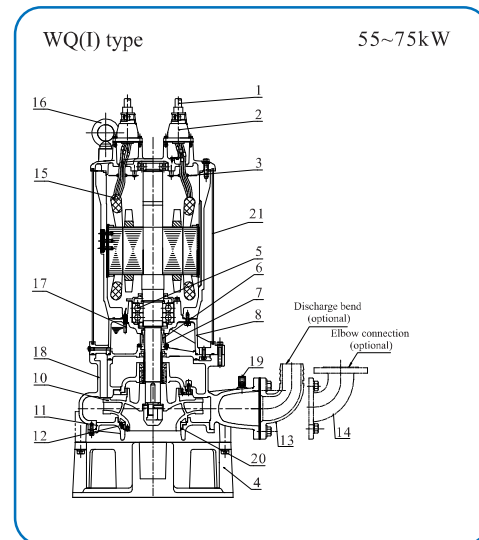
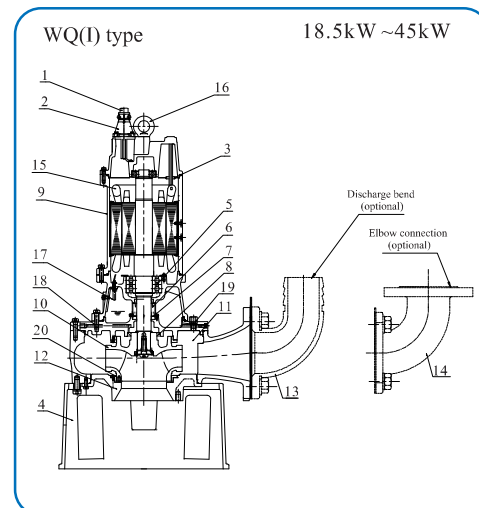
Sectional drawing of sewage pump with 4 pole motor



No.	Name	Material
1	Cable	YZW
2	Cable gland	/
3	Threading board	/
4	Electric motor	/
5	Bearing	/
6	Mechanical seal	Graphite/SIC SIC/SIC+C
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/SIC SIC/SIC+C
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
40WQ(D)12-10-0.75(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
40WQ(D)12-18-1.5(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
50WQ(D)12-10-0.75(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
50WQ(D)10-15-1.5(I)	50	10	15	2880	1.5	380	3.3	20	33	475	310	216	270	363	106.5
50WQ(D)10-18-1.5(I)	50	10	18	2880	1.5	380	3.3	20	33	475	310	216	270	363	106.5
50WQ(D)12-12-1.5(I)	50	12	12	2880	1.5	380	3.3	20	33	475	310	216	270	363	106.5
50WQ(D)15-10-1.5(I)	50	15	10	2880	1.5	380	3.3	20	33	475	310	216	270	363	106.5
50WQ(D)15-15-1.5(I)	50	15	15	2880	1.5	380	3.3	20	33	475	310	216	270	363	106.5
50WQ(D)9-22-2.2(I)	50	9	22	2880	2.2	380	4.6	22	37.5	475	310	216	270	363	106.5
50WQ(D)15-18-2.2(I)	50	15	18	2880	2.2	380	4.6	22	37.5	510	320	216	279	373	106.5
50WQ(D)15-20-2.2(I)	50	15	20	2880	2.2	380	4.6	22	37.5	510	320	216	279	373	106.5
50WQ(D)20-15-2.2(I)	50	20	15	2880	2.2	380	4.6	22	37.5	510	320	216	279	373	106.5
50WQ(D)25-10-2.2(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
65WQ(D)25-10-1.5(I)	65	25	10	2850	1.5	380	3.3	28	30	480	340	160	283	418	110
65WQ(D)25-14-2.2(I)	65	25	14	2880	2.2	380	4.6	24	40.5	526	340	235	287	404	115.5
65WQ(D)35-7-2.2(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
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(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	
65WQ25-31-5.5(I)	65	25	31	2940	5.5	380	10.8	17.5	86	793	450	236	314	431	129.5	
65WQ30-25-5.5(I)	65	30	25	2940	5.5	380	10.8	17.5	86	793	450	236	314	431	129.5	
65WQ20-60-11(I)	65	20	60	2930	11	380	21.7	22	95	877	600	284	362	520	191	
65WQ40-50-11(I)	65	40	50	2930	11	380	21.7	22	95	877	600	284	362	520	191	
65WQ30-60-15(I)	65	30	60	2930	15	380	29.1	22	95	877	600	284	362	520	191	
65WQ50-55-15(I)	65	50	55	2930	15	380	29.1	22	95	877	600	284	362	520	191	
80WQ(D)40-8-2.2(I)	80	40	8	2880	2.2	380	4.6	26.5	42.5	545	370	256	296	431	120.5	
80WQ(D)40-10-2.2(I)	80	40	10	2880	2.2	380	4.6	26.5	42.5	545	370	256	296	431	120.5	
80WQ(D)45-9-2.2(I)	80	45	9	2880	2.2	380	4.6	26.5	42.5	545	370	256	296	431	120.5	
80WQ35-13-3(I)	80	35	13	2840	3	380	6.1	34.5	47	565	360	256	300	436	120.5	
80WQ40-15-4(I)	80	40	15	2840	4	380	7.7	26	51	563	357	250	318	454	114.5	
80WQ40-22-5.5(I)	80	40	22	2940	5.5	380	10.8	17.5	85.5	793	450	251	310	447	129.5	
80WQ40-30-7.5(I)	80	40	30	2940	7.5	380	14.3	17.5	92	790	500	251	310	447	130	
80WQ50-25-7.5(I)	80	50	25	2940	7.5	380	14.3	17.5	92	790	500	251	310	447	130	
80WQ48-38-11(I)	80	48	38	2930	11	380	21.7	22	134.5	924	610	317	410	557	181.5	
100WQ(D)50-7-2.2(I)	100	50	7	2880	2.2	380	4.6	45	48	522	400	170	323	472	120.5	
100WQ60-9-3(I)	100	60	9	2840	3	380	6.1	40	50	564	420	190	311	460	120.5	
100WQ50-12-4(I)	100	50	12	2840	4	380	7.7	34.5	53.5	607	400	292	337	492	142	
100WQ65-15-5.5(I)	100	65	15	2940	5.5	380	10.8	35.5	89	835	500	292	337	492	145	
100WQ65-18-5.5(I)	100	65	18	2940	5.5	380	10.8	35.5	89	835	500	292	337	492	145	
100WQ70-14-5.5(I)	100	70	14	2940	5.5	380	10.8	35.5	89	835	500	292	337	492	145	
100WQ45-22-7.5(I)	100	45	22	2940	7.5	380	14.3	32.5	98	835	500	297	365	519	147	
100WQ65-20-7.5(I)	100	65	20	2940	7.5	380	14.3	32.5	98	835	500	297	365	519	147	
100WQ80-15-7.5(I)	100	80	15	2940	7.5	380	14.3	32.5	98	835	500	297	365	519	147	
100WQ100-15-7.5(I)	100	100	15	2940	7.5	380	14.3	32.5	98	835	500	297	365	519	147	
100WQ80-25-11(I)	100	80	25	2930	11	380	21.7	25	128	906	620	344	388	577	194	
100WQ100-30-15(I)	100	100	30	2930	15	380	29.1	27.5	136	906	620	344	388	577	194	
150WQ100-7-5.5(I)	150	100	7	2940	5.5	380	10.8	31	102	850	510	365	398	650	157.5	
150WQ100-10-5.5(I)	150	100	10	2940	5.5	380	10.8	31	102	850	510	365	398	650	157.5	
150WQ100-17-7.5(I)	150	100	17	2940	7.5	380	14.3	31	109	850	510	365	398	650	157.5	
150WQ150-10-7.5(I)	150	150	10	2940	7.5	380	14.3	30	105	909	670	425	398	660	214.5	
150WQ120-25-15(I)	150	120	25	2930	15	380	29.1	40	145	955	680	425	398	660	214.5	

Note: WQ(D) means that single phase and three phase are both available. "D" stands for single phase.

● Technical data and dimensions(4 pole motor)

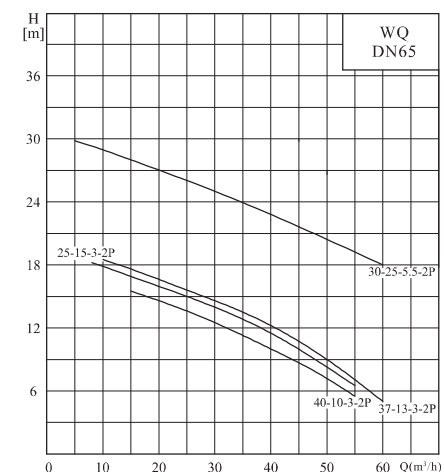
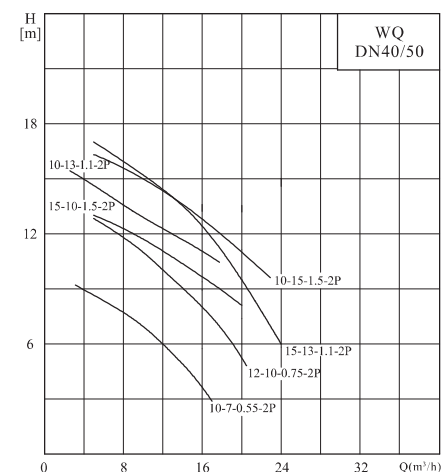
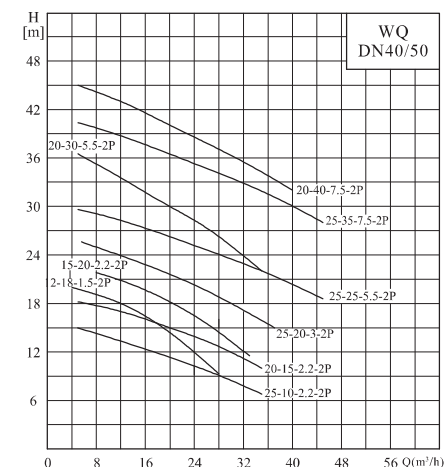
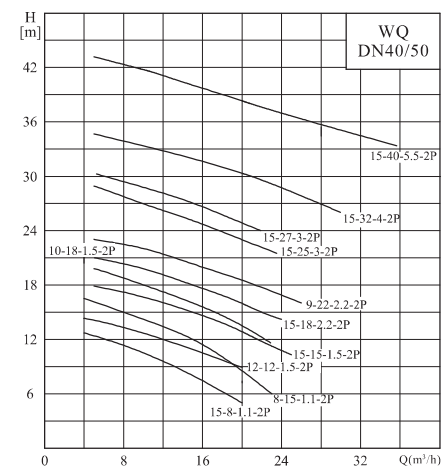
Model	Diameter	Q	H	Speed	Power	Rated voltage	Rated current	Max. dia. of passing solid	Weight	Dimensions(mm)						
	(mm)	(m ³ /h)	(m)	(rpm)	(kW)	(V)	(A)	(mm)	(kg)	H	H1	H2	F	F1	H3	
80WQ36-10-2.2(I)	80	36	10	1413	2.2	380	5	50	56	643	460	301	363	510	168.5	
80WQ36-12-2.2(I)	80	36	12	1413	2.2	380	5	50	56	643	460	301	363	510	168.5	
80WQ36-16-4(I)	80	36	16	1413	4	380	8.4	35	53.5	692	555	301	375	580	168.5	
80WQ60-11-4(I)	80	60	11	1413	4	380	8.4	55	53.5	716	357	250	370	454	173.5	
100WQ60-17-5.5(I)	100	60	17	1437	5.5	380	11.5	40	132	908	670	432	453	714	222	
100WQ60-20-7.5(I)	100	60	20	1450	7.5	380	16.6	40	145	929	690	369	454	687	222	
100WQ80-35-18.5(I)	100	80	35	1460	18.5	380	36.9	27.5	305	1208	800	439	603	836	289	
100WQ100-35-22(I)	100	100	35	1460	22	380	43.1	35	310	1208	800	439	603	836	289	
100WQ100-39-22(I)	100	100	39	1460	22	380	43.1	35	310	1208	800	439	603	836	289	
150WQ240-7-7.5(I)	150	240	7	1450	7.5	380	16.6	70	126	1085	845	510	548	841	335	
150WQ150-16-11(I)	150	150	16	1440	11	380	22.9	52	216	1097	750	535	575	825	325	
150WQ150-20-15(I)	150	150	20	1440	15	380	30.6	57	237	1167	800	535	572	822	325	
150WQ150-24-18.5(I)	150	150	24	1460	18.5	380	36.9	45	292	1080	1030	530	620	820	320	
150WQ180-20-18.5(I)	150	180	20	1460	18.5	380	36.9	45	292	1080	1030	530	620	820	320	
150WQ200-16-18.5(I)	150	200	16	1460	18.5	380	36.9	45	292	1080	1030	530	620	820	320	
150WQ250-14-18.5(I)	150	250	14	1460	18.5	380	36.9	45	292	1080	1030	530	620	820	320	
150WQ150-27-22(I)	150	150	27	1460	22	380	43.1	60	320	1281	880	530	575	900	320	
150WQ180-25-22(I)	150	180	25	1460	22	380	43.1	65	550	1281	880	530	575	900	320	
150WQ200-22-22(I)	150	200	22	1460	22	380	43.1	60	680	1281	880	530	575	900	320	
150WQ270-16-22(I)	150	270	16	1460	22	380	43.1	65	690	1273	860	530	575	900	320.5	
150WQ200-28-30(I)	150	200	28	1450	30	380	57.4	60	710	1513	1200	673	620	900	350	
150WQ150-35-37(I)	150	150	35	1470	37	380	71.9	65	700	1567	1200	671	765	1025	461	
150WQ200-35-37(I)	150	200	35	1470	37	380	71.9	65	685	1567	1200	671	765	1025	350	
150WQ200-45-55(I)	150	200	45	1480	55	380	106.0	50	690	1663	1300	596	811	1138	386.5	
150WQ270-40-55(I)	150	270	40	1480	55	380	106.0	50	845	1663	1300	596	811	1138	386.5	
200WQ270-10-11(I)	200	270	10	1440	11	380	22.9	50	255	1113	760	530	568	890	335	
200WQ270-14-15(I)	200	270	14	1440	15	380	30.6	35	230	1184	810	535	546	868	340	
200WQ250-15-18.5(I)	200	250	15	1460	18.5	380	36.9	35	320	1281	880	530	575	900	335.5	
200WQ300-12-18.5(I)	200	300	12	1460	18.5	380	36.9	63	320	1281	880	530	575	900	335.5	
200WQ270-16-22(I)	200	270	16	1460	22	380	43.1	64	550	1281	880	530	575	900	335.5	
200WQ300-15-22(I)	200	300	15	1450	22	380	43.1	60	680	1281	880	530	575	900	335.5	
200WQ400-10-22(I)	200	400	10	1450	22	380	43.1	65	690	1281	880	530	575	900	335.5	
200WQ250-22-30(I)	200	250	22	1450	30	380	57.4	60	710	1513	1200	673	620	900	463	
200WQ360-17-30(I)	200	360	17	1450	30	380	57.4	65	700	1513	1200	673	620	900	463	
200WQ400-15-30(I)	200	400	15	1450	30	380	57.4	60	685	1513	1200	673	620	900	463	
200WQ400-22-37(I)	200	400	22	1470	37	380	71.9	65	845	1590	1200	673	813	1140	463	
200WQ350-25-37(I)	200	350	25	1470	37	380	71.9	60	850	1590	1200	673	813	1140	463	
200WQ300-26-37(I)	200	300	26	1470	37	380	71.9	50	940	1590	1200	673	813	1140	463	
200WQ270-28-37(I)	200	270	28	1470	37	380	71.9	50	930	1590	1200	673	813	1140	463	
200WQ400-25-45(I)	200	400	25	1470	45	380	87.0	40	650	1663	1300	650	811	1236	432.5	
200WQ250-40-55(I)	200	250	40	1480	55	380	106.0	40	850	1663	1300	650	811	1236	386	
200WQ400-30-55(I)	200	400	30	1480	55	380	106.0	40	850	1663	1300	650	811	1236	386	

● Technical data and dimensions(4 pole motor)

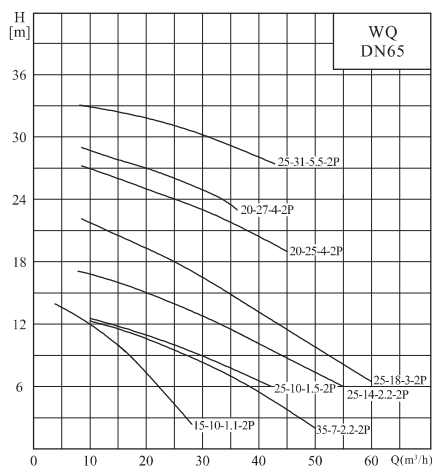
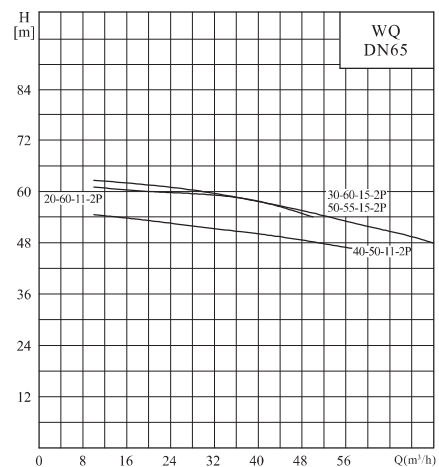
Model	Diameter	Q	H	Speed	Power	Rated voltage	Rated current	Max. dia. of passing solid	Weight	Dimensions(mm)						
	(mm)	(m ³ /h)	(m)	(rpm)	(kW)	(V)	(A)	(mm)	(kg)	H	H1	H2	F	F1	H3	
200WQ350-40-75(I)	200	350	40	1480	75	380	142.0	40	919	1663	1300	650	811	1236	386	
200WQ500-30-75(I)	200	500	30	1480	75	380	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 sales for overall dimension drawing.

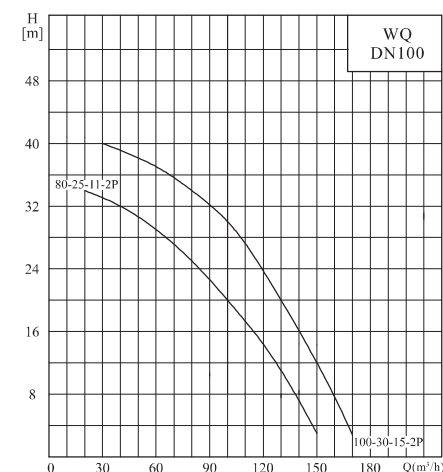
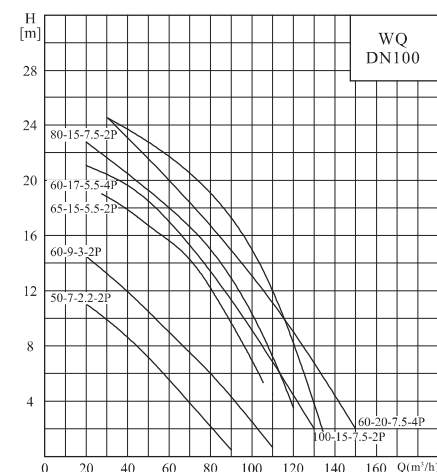
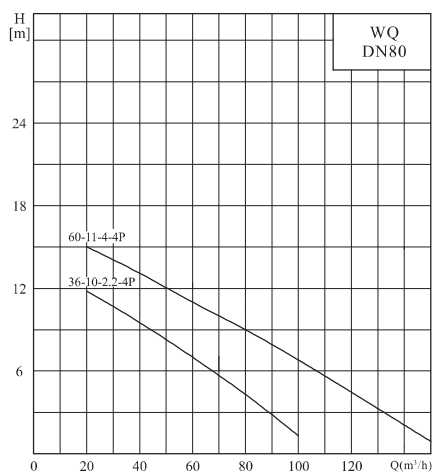
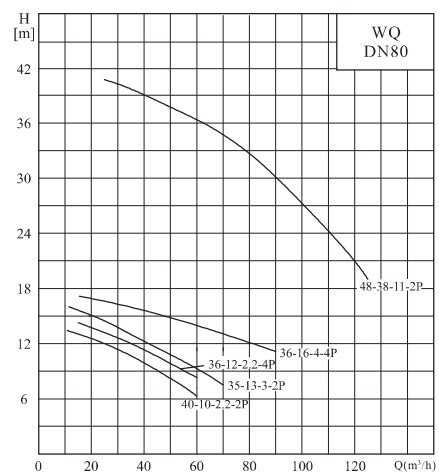
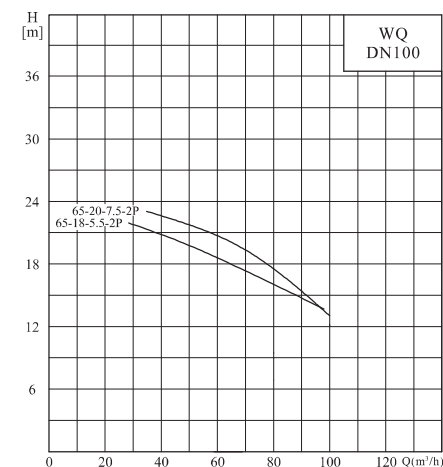
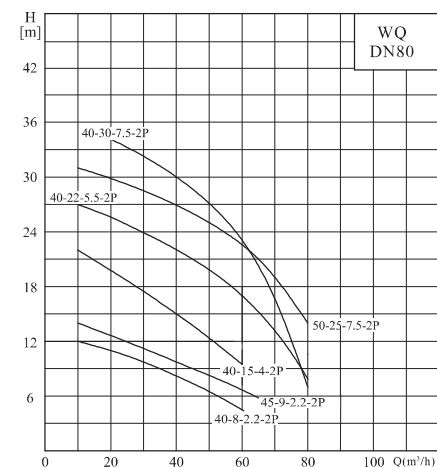
● Performance curve



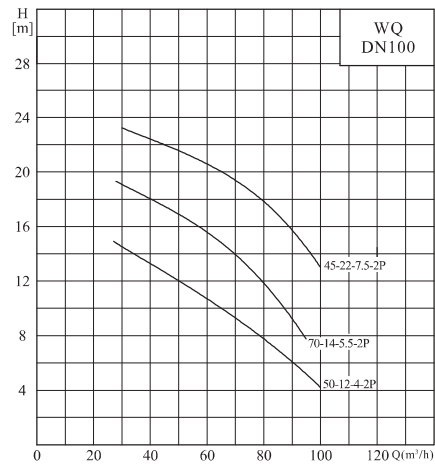
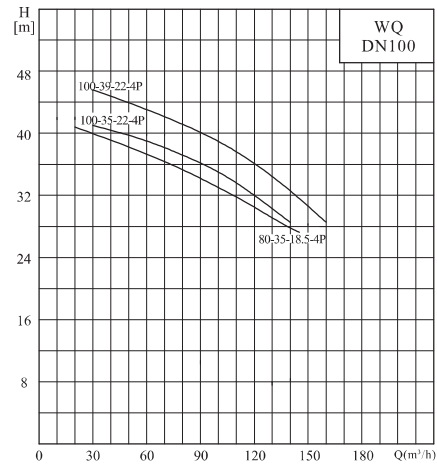
● Performance curve



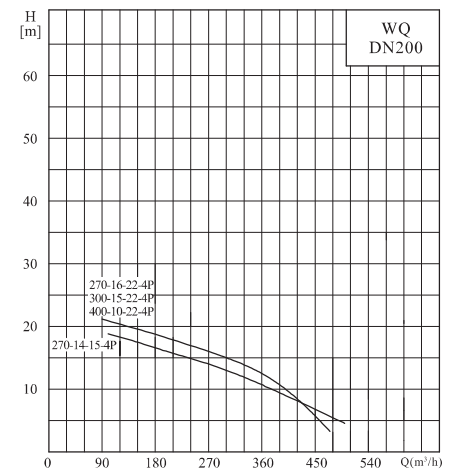
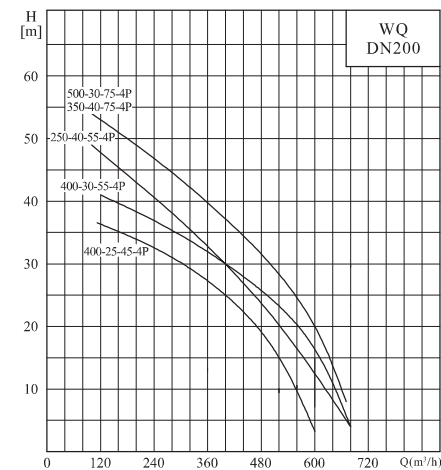
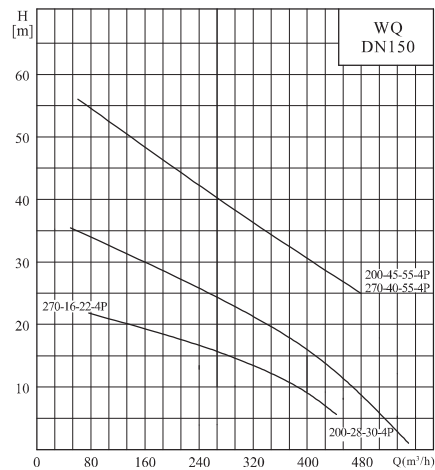
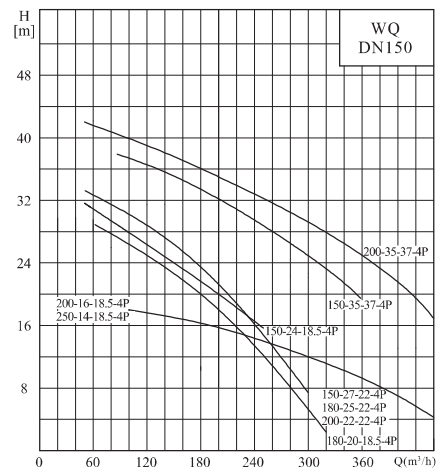
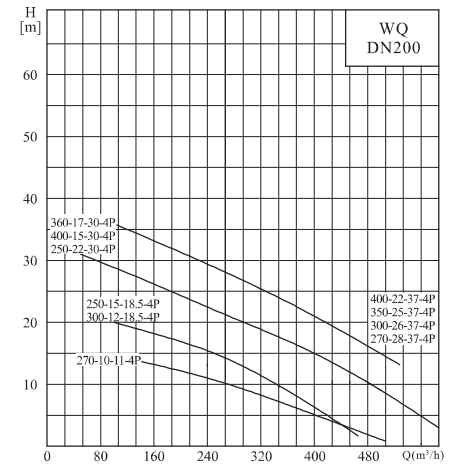
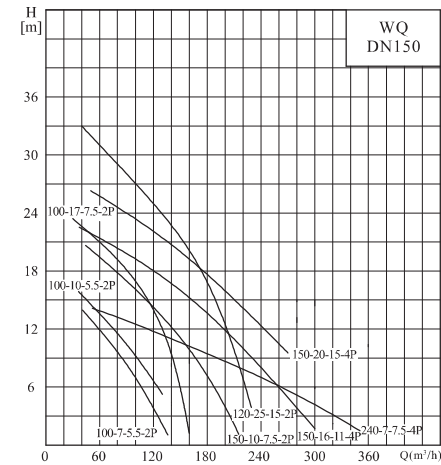
● Performance curve



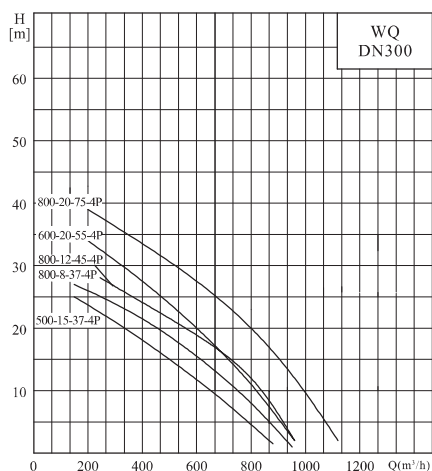
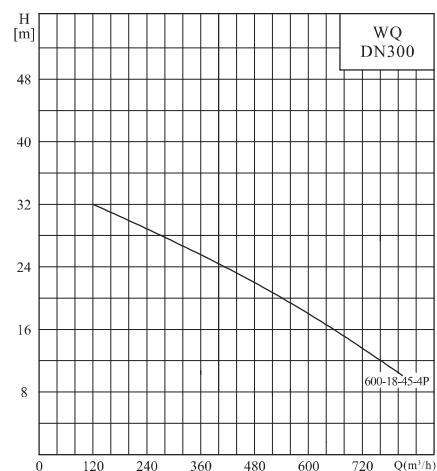
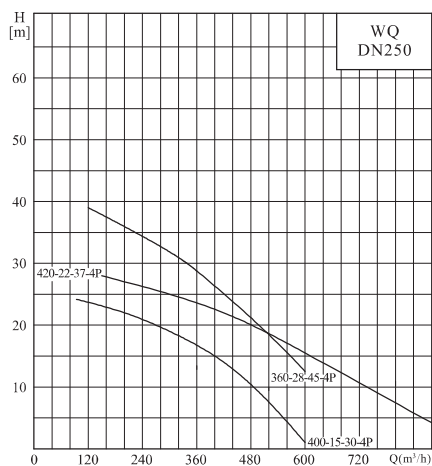
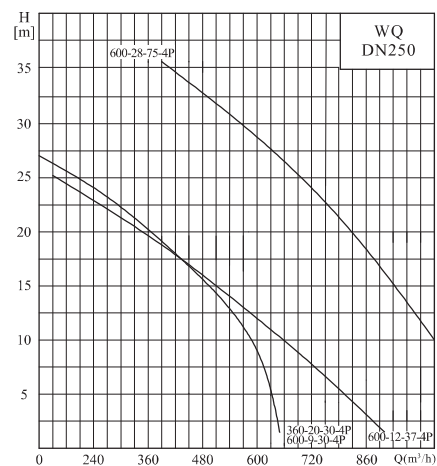
● Performance curve



● Performance curve

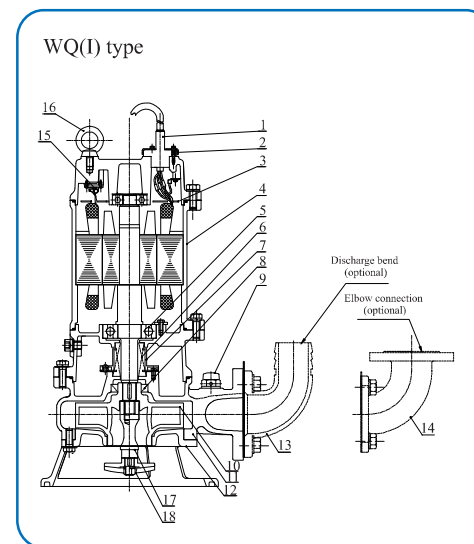


Performance curve



WQ-JY(I) type submersible sewage pump

Sectional drawing of sewage pump with 2 pole motor



The pump is equipped with a stirring impeller. When the pump is running, the impeller is rotated to prevent the precipitation of dirt near the pump, which affects the normal operation of the pump and prevents the sediment at the bottom of the pool.

No.	Name	Material
1	Cable	YCW
2	Cable gland	/
3	Threading board	/
4	Filter bracket	/
5	Bearing	/
6	Mechanical seal	Graphite/SIC SIC/SIC+C
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

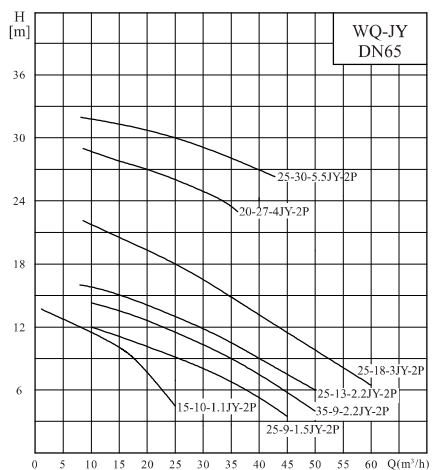
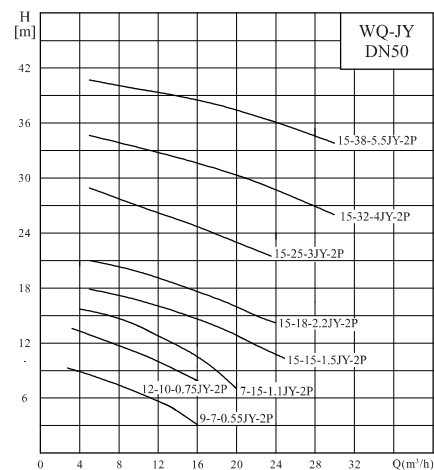
● Technical data and dimension (2 pole motor)

Model	Diameter	Q	H	Speed	Power	Rated voltage	Rated current	Max. dia. of passing solid	Weight	Dimensions(mm)						
	(mm)	(m³/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	
50W Q7-15-1.1JY	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	
65WQ 35-9-2.2JY	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	
65WQ2027-4JY	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	
100WQ 50-12-4JY	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	
65WQ35-50-11JY	65	35	50	2930	11	380V	21.7	22	98	916	630	311	363	465		
65WQ30-54-11JY	65	30	54	2930	11	380V	21.7	22	98	916	630	311	362	465		
80WQ50-29-11JY	80	50	29	2930	11	380V	21.7	22	138	924	670	320	410	547		
100WQ100-22-11JY	100	100	22	2930	11	380V	21.7	25	131	908	650	344	388	544		
100WQ100-30-15JY	100	100	30	2930	15	380V	29.1	27.5	131	908	650	344	388	544		
100WQ100-35-22JY	100	100	35	1460	22	380V	43.1	35	313	1232	950	439	605	758		
150WQ150-13-11JY	150	150	13	1440	11	380V	22.9	52	219	1097	813	535	575	825		
150WQ140-24-15JY	150	140	24	2930	15	380V	29.1	40	148	955	690	425	398	649		
150WQ150-19-15JY	150	150	19	1440	15	380V	30.6	57	240	1167	880	535	573	825		
150WQ200-17-18.5JY	150	200	17	1460	18.5	380V	36.9	45	295	1270	980	500	575	827		

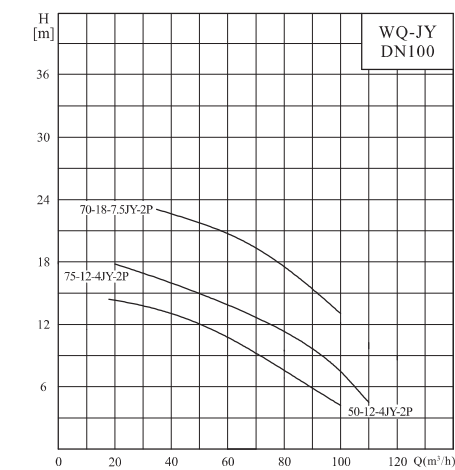
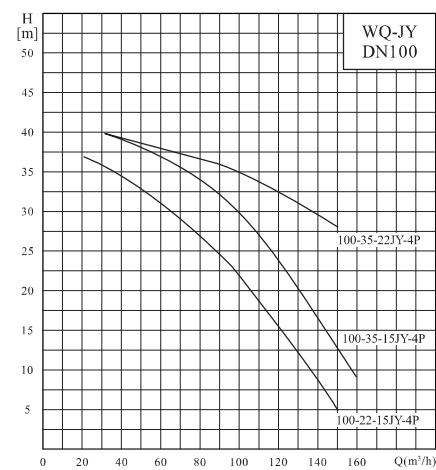
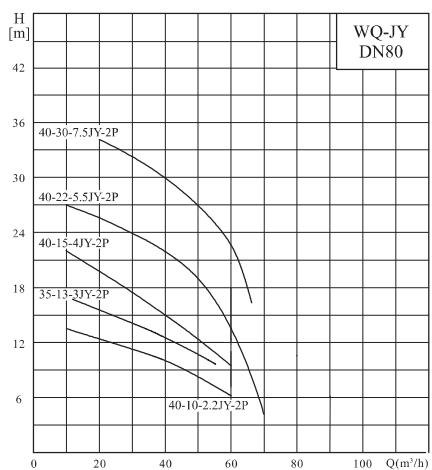
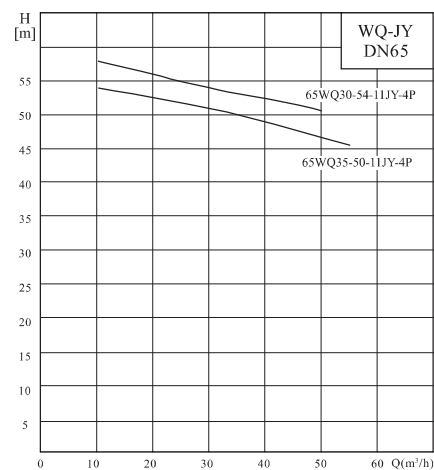
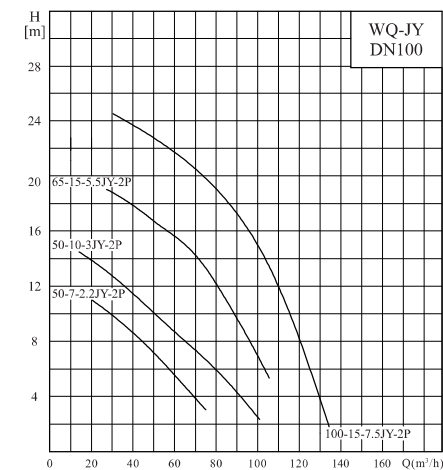
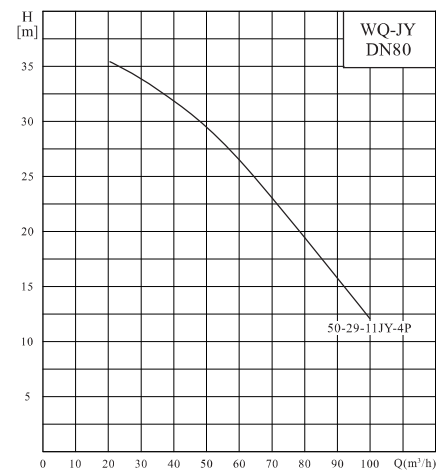
● Technical data and dimension (2 pole motor)

Model	Diameter	Q	H	Speed	Power	Rated voltage	Rated current	Max. dia. of passing solid	Weight	Dimensions(mm)						
	(mm)	(m³/h)	(m)	(rpm)	(kW)	(V)	(A)	(mm)	(kg)	H	H1	H2	F	F1	H3	
150WQ250-15-18.5JY	150	250	15	1460	18.5	380V	36.9	45	313	1273	980	530	575	827		
150WQ150-25-22JY	150	150	25	1460	22	380V	43.1	65	323	1273	980	500	575	827		
150WQ300-16-22JY	150	300	16	1460	22	380V	43.1	65	326	1273	980	530	575	827		
200WQ210-11-11JY	200	210	11	1440	11	380V	22.9	50	258	1135	810	545	569	896		
200WQ300-11-15JY	200	300	11	1440	15	380V	30.6	35	258	1184	880	550	547	871		
200WQ300-13-18.5JY	200	300	11	1460	18.5	380V	36.9	63	313	1273	980	532	575	906		

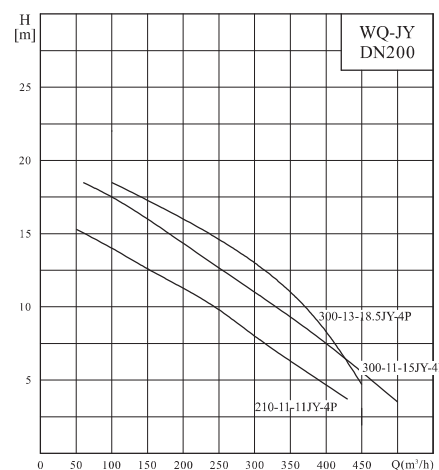
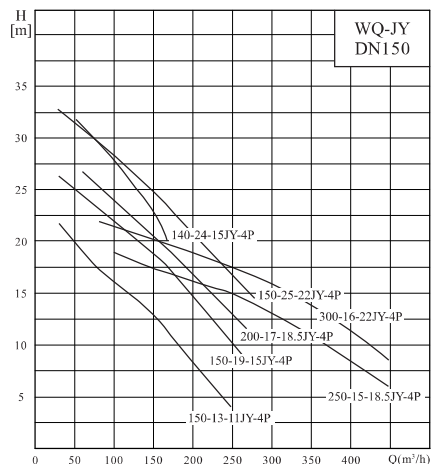
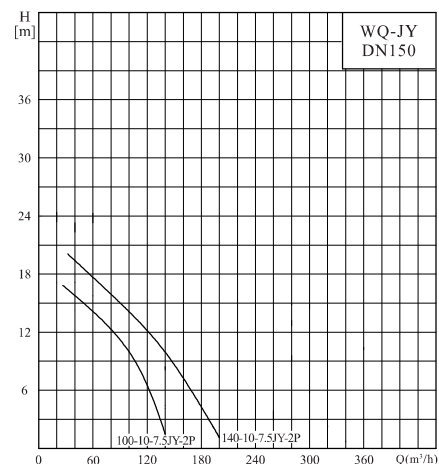
● Performance curve



● Performance curve

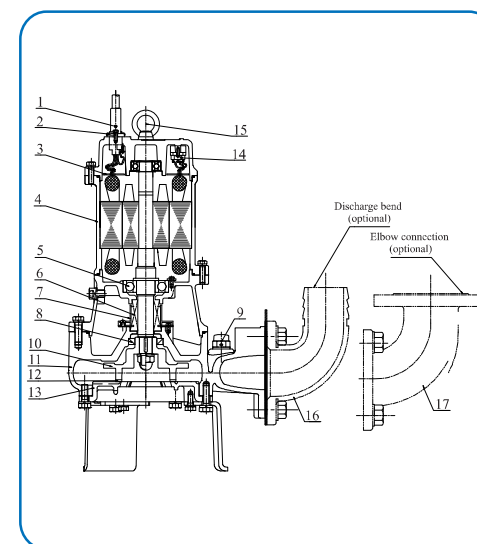


● Performance curve



● 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.

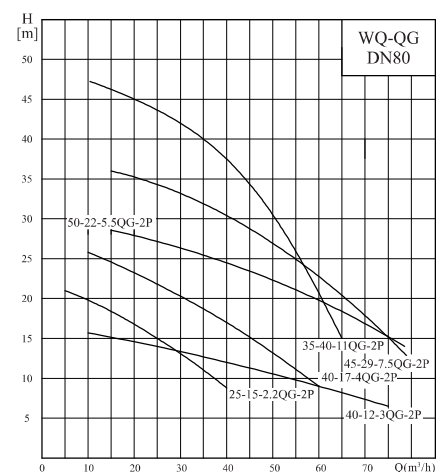
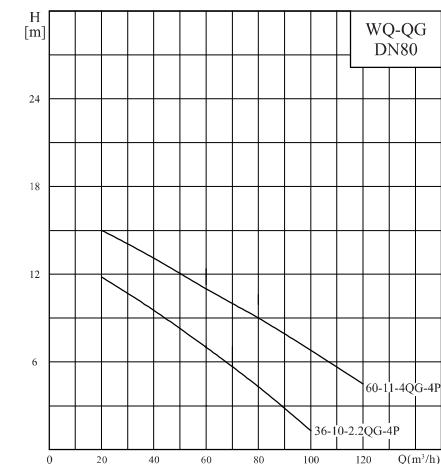
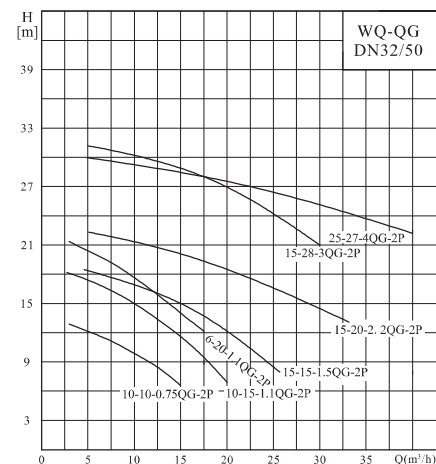
No.	Name	Material
1	Cable	YZW
2	Cable gland	/
3	Threading board	/
4	Electric motor	/
5	Bearing	/
6	Mechanical seal	Graphite/SIC SIC/SIC+C
7	Oil lifter	/
8	Oil seal	NBR1-2
9	Air vent screw	Resin/others
10	Impeller	HT200
11	Casing	HT200
12	Cutting blade	Cemented carbide
13	Suction cover	QT600
14	Circle 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 ³ /h)	(m)	(rpm)	(kW)	(V)	(A)	(mm)	(kg)	H	H1	H2	F	F1	H3
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

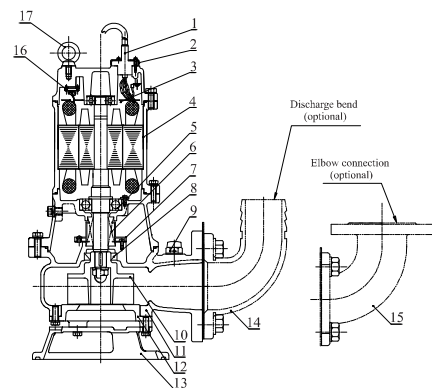
Please contact the salesman for overall dimension drawing. The dimensions of above table please refer to page 8.

Performance curve



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

WQ-W(I) type



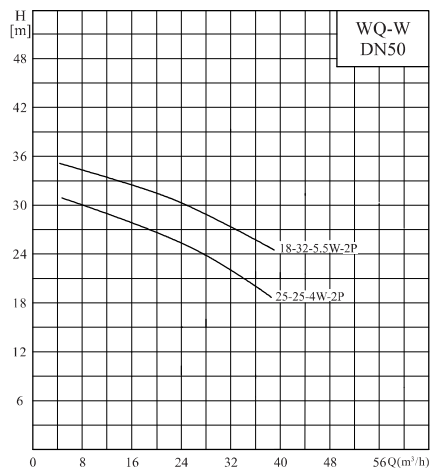
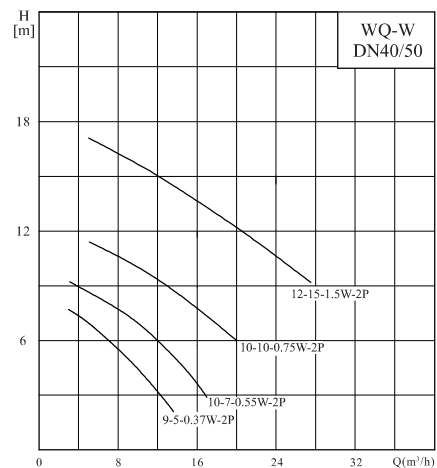
With the reasonable structure of cutting type, the pump is able to prevent clogging at the extreme. It consists of rotating impeller which with cutting blade and suction cover which with zigzag fixed gear. The edge of blade and zigzag cover will move in the oppsite direction when impeller rotates. It 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/SIC SIC/SIC+C
7	Oil lifter	/
8	Oil seal	NBR1-2
9	Air vent screw	Resin/others
10	Impeller	QT500
11	Casing	HT200
12	Non-clogging suction cover	QT500
13	Non-clogging foot bracket	QT500
14	Discharge bend (optional)	HT200
15	Elbow connection (optional)	HT200
16	Thermal protector	/
17	Eye-bolt	/

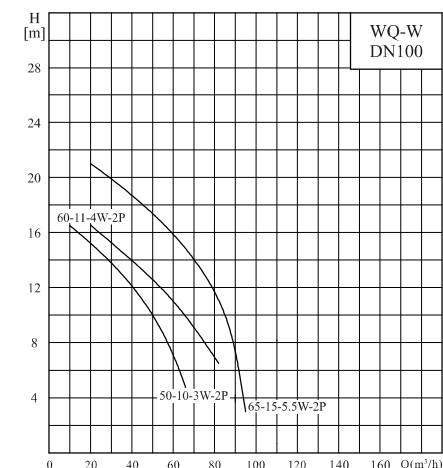
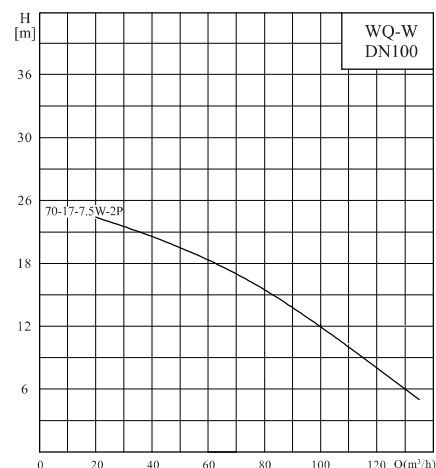
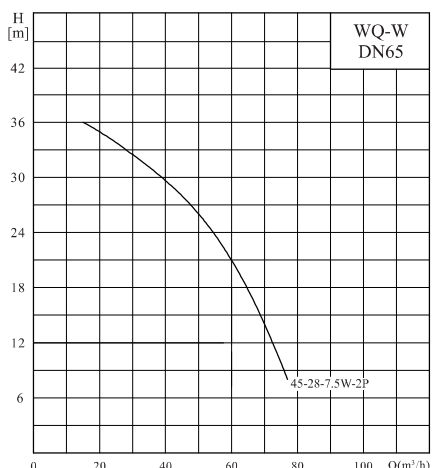
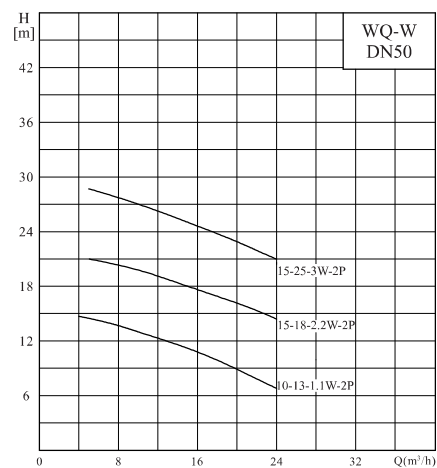
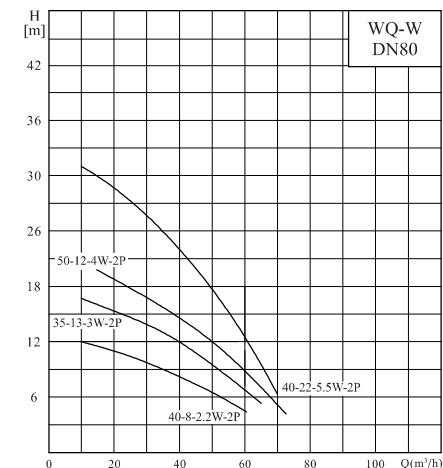
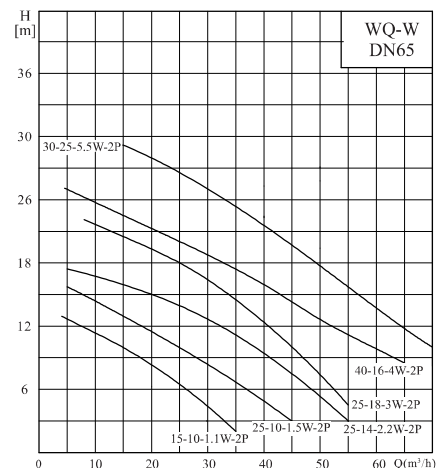
Technical data and dimensions

Model	Diameter	Q	H	Speed	Power	Rated voltage	Rated current	Max. dia. of passing solid	Weight	Dimensions(mm)					
	(mm)	(m³/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

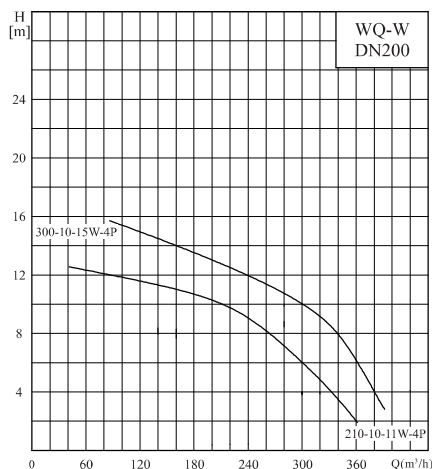
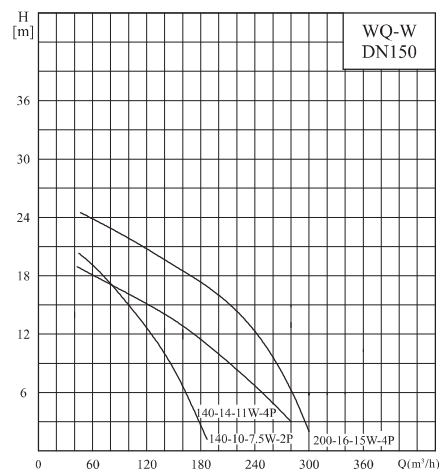
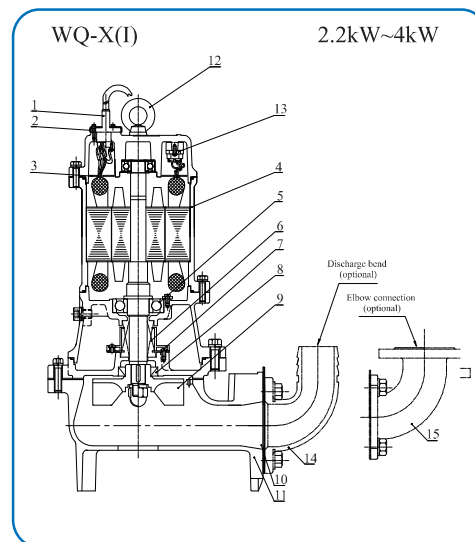
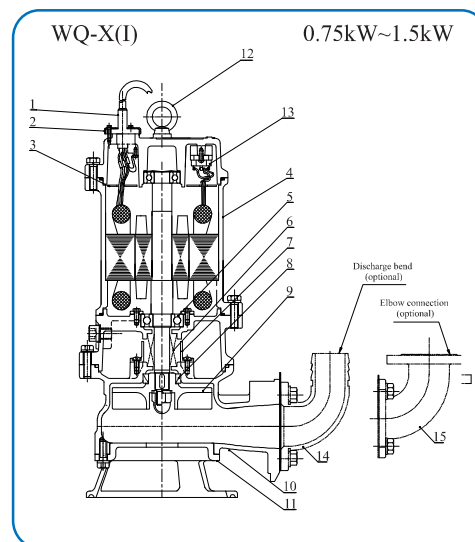
Performance curve



Performance curve



● Performance curve

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

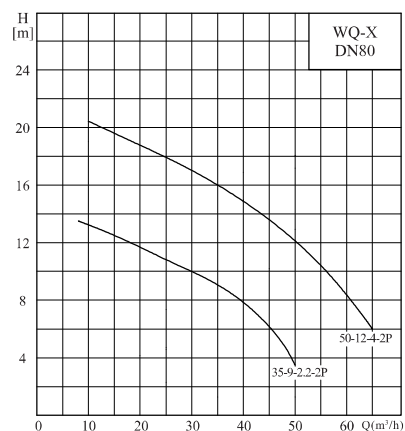
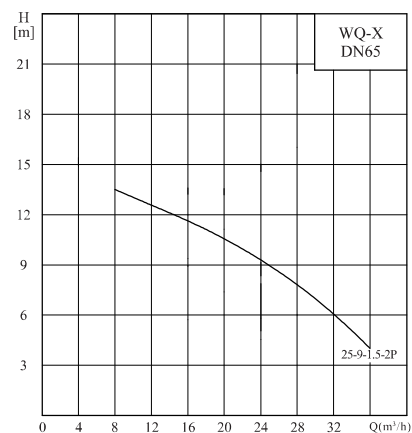
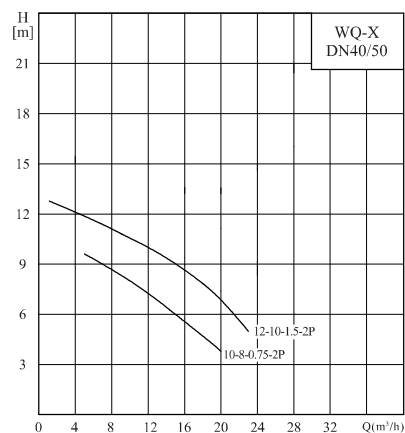
No.	Name	Material
1	Cable	YZW
2	Cable gland	/
3	Threading board	/
4	Base	HT200
5	Bearing	/
6	Mechanical seal	Graphite/SIC SIC/SIC+C
7	Oil lifter	/
8	Oil seal	NBR1-2
9	Impeller	Cast iron
10	Casing	Cast iron
11	Suction cover	Cast iron
12	Eye-bolt	/
13	Thermal protector	/
14	Discharge bend (optional)	Cast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

The water pump adopts a swirling impeller structure, and the impeller is in the upper part of the pump body flow passage, so that it has good passability, avoiding blockage of the internal flow passage. So it's suitable for working condition in which liquid contains large particles and where conventional water pump is blocked.

Technical data and dimensions

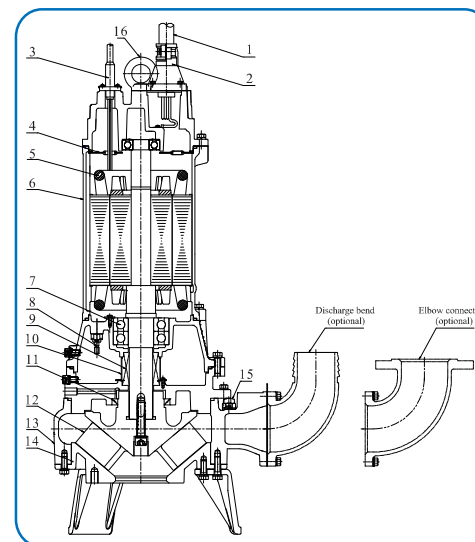
Model	Diameter	Q	H	Speed	Power	Rated current	Max. dia. of passing solid	Weight	Dimensions(mm)						
	(mm)	(m ³ /h)	(m)	(rpm)	(kW)	(A)	(mm)	(kg)	H	H1	H2	F	F1	H3	
50WQX10-8-0.75	50	10	8	2850	0.75	1.8	37	23	432	287	177	215	324	77	
50WQX12-10-1.5	50	12	10	2880	1.5	3.3	36	31	468	317	182	250	358	82	
65WQX25-9-1.5	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



WQ-H(I) high head high solid passing submersible pumps

4-pole motor high lift pump



The specially designed impeller makes the pump have a higher lift and passability, and the performance is improved by 20%. The impeller used is a semi-open impeller, which has a good function of preventing clogging.

No.	Name	Material
1	Main cable	YZW
2	Cable gland	
3	Deputy cable	YZW
4	Threading board	
5	Thermal protector	
6	Base	HT200
7	Bearing	
8	Leakage protector	
9	Mechanical seal	Graphite/SIC SIC/SIC+C
10	Oil lifter	Resin/Others
11	Oil seal	NBR
12	Impeller	HT200
13	Pump body	HT200
14	Suction cover	HT200
15	Automatic air release valve	Resin/Others
16	Eye-bolt	

Technical data and dimensions

Model	Diameter	Q	H	Speed	Power	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
80WQ60-28-11H(I)	80	60	28	1440	11	380	22.9	45	265	1030	800	330	565	690
80WQ60-35-15H(I)	80	60	35	1440	15	380	30.6	45	265	1030	800	330	565	690
80WQ60-40-18.5H(I)	80	60	40	1460	18.5	380	36.9	45	350	1200	870	330	600	730
80WQ80-43-22H(I)	80	80	43	1460	22	380	43.1	45	350	1200	870	330	600	730
100WQ100-22-11H(I)	100	100	22	1440	11	380	22.9	55	270	1085	850	420	560	725
100WQ100-19-15H(I)	100	100	19	1440	15	380	30.6	55	270	1085	850	420	560	725
100WQ100-32-18.5H(I)	100	100	32	1460	18.5	380	36.9	55	330	1255	950	420	560	725
100WQ100-34-22H(I)	100	100	34	1460	22	380	43.1	55	330	1255	950	420	560	725

Performance curve

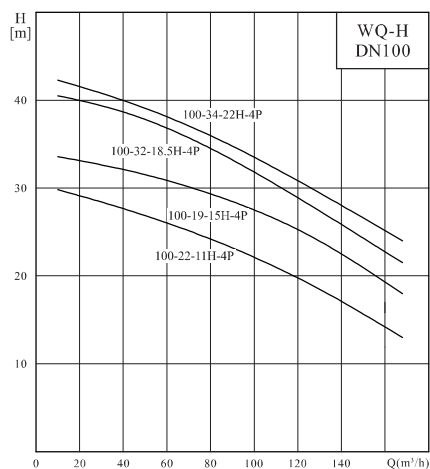
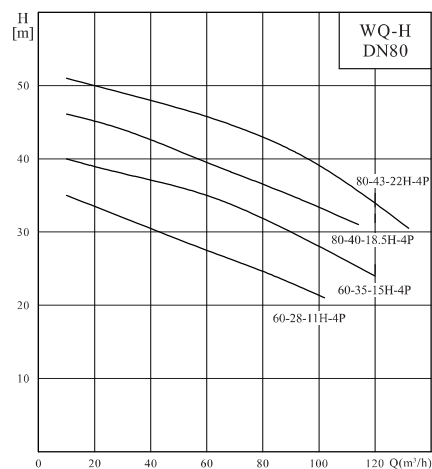


Table of pump models and oil capacities

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, endurable, Class F insulation to ensure the long service life of motor.
- There are many protections in the motor, easy for selection.

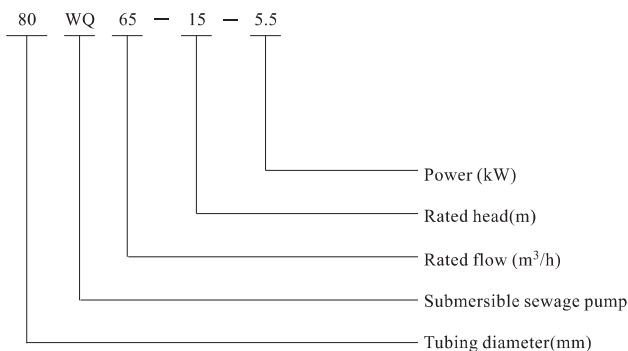
● Application

- 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 < 40°C, PH value is 4-10, medium density < 1200kg/m³ solid and liquid ratio < 2%.
- 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.

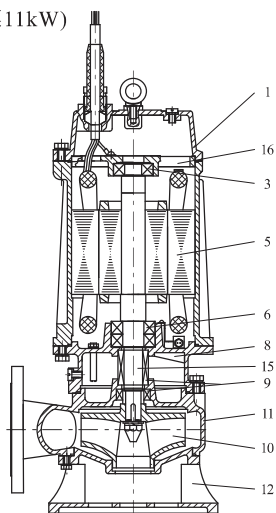
● Definition of model



● Structure

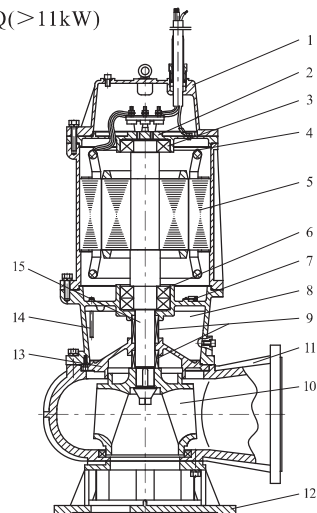
- Carefully selection and matching of the pump body and impeller, the flow through with good performance, high efficiency, flat power curve, not easy to overload. Impeller is balance and precise with less vibration and stable rotation.
- Motor: Specially designed submersible motor, the protection level 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

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

Material

No.	Name	Material
1	Casing cover	HT200
3	Bearing	/
5	Motor	/
6	Bearing	/
8	Oil chamber	
9	Mechanical seal	SiC/Tungsten carbide
10	Impeller	HT200
11	Casing	HT200
12	Base	HT200
15	Shaft	20Cr13
16	Thermal protector	/

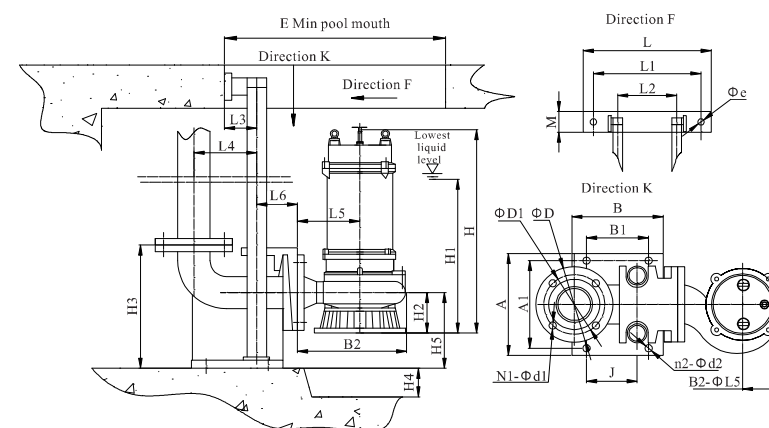
WQ($> 11\text{kW}$)

No.	Name	Material
1	Casing cover	HT200
2	Upper bearing seat	HT200
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	HT200
11	Casing	HT200
12	Base	HT200
13	Oil chamber cover	/
14	Oil water detector	/
15	Shaft	20Cr13

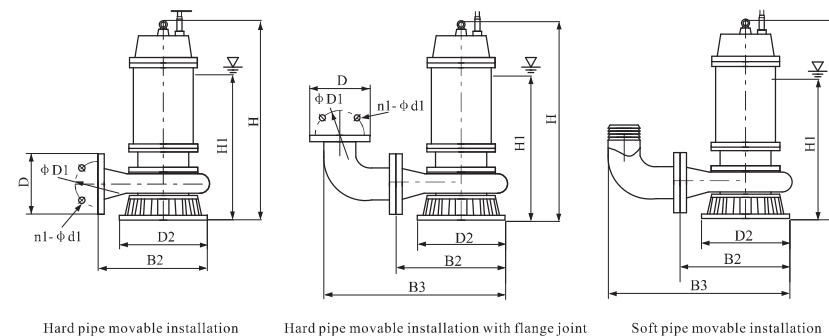
Installation type

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-Φ18	195	100	120	225	185	70	35	Φ14	65	125	85	Φ34×3	
2	50WQ	140	110	4-Φ14	197	168	208	120	120	4-Φ18	250	100	165	265	215	110	42	Φ14	66	135	90	Φ34×3	
3	65WQ	160	130	4-Φ14	238	190	252	135	135	4-Φ18	265	100	170	280	235	125	50	Φ14	70	185	85	Φ34×3	
4	80WQ	190	150	4-Φ19	255	220	225	125	125	4-Φ18	310	100	190	315	265	145	53	Φ14	80	155	100	Φ34×3	
5	100WQ	210	170	4-Φ19	293	265	258	140	140	4-Φ25	350	100	235	365	305	170	55	Φ15	100	200	110	Φ48×3	
6	150WQ	265	225	4-Φ19	400	300	410	210	210	4-Φ25	485	150	305	410	260	285	60	Φ15	100	300	190	Φ48×3	
7	200WQ	320	280	8-Φ19	400	300	450	245	245	4-Φ25	550	200	330	410	260	285	60	Φ15	100	330	195	Φ48×3	
8	250WQ	375	335	8-Φ19	460	370	570	325	325	4-Φ25	640	200	350	410	260	285	60	Φ15	100	395	195	Φ48×3	
9	300WQ	445	400	12-Φ19	550	415	600	330	330	4-Φ25	730	200	415	530	350	375	65	Φ16	115	392	266	Φ60×3	
10	350WQ	505	460	12-Φ23	650	419	645	320	320	4-Φ25	855	200	480	520	350	375	65	Φ16	115	424	285	Φ60×3	
11	400WQ	565	515	16-Φ28	630	490	675	390	390	4-Φ25	965	200	560	520	350	196	65	Φ16	145	460	288	Φ60×3	
12	450WQ	615	565	20-Φ28	600	500	675	530	530	4-Φ40	900	200	470	550	400	250	130	Φ22	130	600	250	Φ75×3	
13	500WQ	670	620	20-Φ28	650	550	700	580	580	4-Φ40	950	200	490	600	400	300	130	Φ22	130	600	250	Φ75×3	
14	600WQ	780	725	20-Φ31	1200	1050	1150	1100	1100	4-Φ48	1100	280	590	650	450	350	156	Φ22	150	720	300	Φ75×3	

● Relevant dimensions

Measure: mm (except inch)

Diameter Item	40	50	65	80	100	150	200	250	30	350	400	450	500	600
Dia. of guide tube	1"			1.5"					2"			2.5"		
Length of guide tube	Pool depth-H4-46-2/M													
Quantity and specification of expansion bolt	2-M12×150				2-M12×150				2-M16×150			2-M20×150		
Quantity and specification of anchor bolt	4-M16×250				4-M20×300								4-M24×400	
Hole size of anchor bolt	80×80×300				100×100×350								150×150×400	
Dia. Of rubber pipe	1.5" /40	2" /50	2.5" /65	3" /76	4" /100	6" /150	8" /200	10" /250	12" /300	14" /350	16" /400	18" /450	20" /500	24" /600

Coupling configuration of WQ and WQF are the same.

● Technical data and dimensions

No.	Model	Diameter	Q	H	Speed	Power	Efficiency	Power factor	Rated current	Max.dia.of passing solid	Dimensions(mm)						Weight (kg)
		(mm)	(m³/h)	(m)	(rpm)	(kw)	(A)	cos φ	(A)	(mm)	H	H1	B3	B2	L5	H2	
1	40WQ 10-10-0.75	40	10	10	2950	0.75	67	0.83	1.83	10	450	380	320	235	140	100	23/26
2	40WQ 7-15-1.1	40	7	15	2950	1.1	70	0.85	2.60	10	490	380	320	235	140	100	25
3	40WQ 15-8-1.1	40	15	8	2950	1.1	70	0.85	2.60	10	490	380	320	235	140	100	25
4	40WQ 12-15-1.5	40	12	15	2950	1.5	73	0.84	3.50	15	490	420	360	270	140	120	29
5	50WQ 10-7-0.55	50	10	7	2950	0.55	67	0.83	1.33	10	450	380	320	235	140	110	23/26
6	50WQ 10-10-0.75	50	10	10	2950	0.75	67	0.83	1.83	10	450	380	320	235	140	110	23/26
7	50WQ 7-15-1.1 (非法兰)	50	7	15	2950	1.1	70	0.85	2.60	10	490	380	320	235	140	110	25
8	50WQ 7-15-1.1	50	7	15	2950	1.1	70	0.85	2.60	10	490	380	320	235	140	110	25
9	50WQ 15-8-1.1	50	15	8	2950	1.1	70	0.85	2.60	10	490	380	320	235	140	110	25
10	50WQ 10-15-1.5	50	10	15	2950	1.5	73	0.84	3.50	15	520	415	370	280	150	120	31
11	50WQ 15-10-1.5	50	15	10	2950	1.5	73	0.84	3.50	15	520	415	370	280	150	120	31
12	65WQ 25-8-1.5	65	25	8	2950	1.5	73	0.84	3.50	30	525(568)	455(498)	395	280	160	125(168)	38
13	50WQ 9-22-2.2	50	9	22	2950	2.2	75	0.85	4.90	10	520	450	370	270	150	125	37
14	50WQ 25-10-2.2	50	25	10	2950	2.2	75	0.85	4.90	10	520	450	370	270	150	125	37
15	65WQ 35-7-2.2	65	35	7	2950	2.2	75	0.85	4.90	30	525(568)	455(498)	395	280	160	125(168)	38
16	80WQ 40-10-2.2	80	40	10	2950	2.2	75	0.85	4.90	30	540(583)	450(493)	415	285	165	125(168)	41
17	100WQ 50-7-2.2	100	50	7	2950	2.2	75	0.85	4.90	35	542(583)	472(513)	460	300	180	140(181)	41
18	50WQ 15-30-3	50	15	30	2950	3	77	0.87	6.40	25	550(593)	480(523)	380	300	180	125(168)	43
19	50WQ 20-25-3	50	20	25	2950	3	77	0.87	6.40	25	550(593)	480(523)	380	300	180	125(168)	43
20	65WQ 35-10-3	65	35	10	2950	3	77	0.87	6.40	30	545(588)	475(518)	395	280	160	125(168)	42
21	80WQ 40-12-3	80	40	12	2950	3	77	0.87	6.40	30	540(583)	470(513)	415	300	180	125(168)	43
22	100WQ 60-9-3	100	60	9	2950	3	77	0.87	6.40	35	562(605)	492(535)	460	300	180	140(183)	62
23	50WQ 15-35-4	50	15	35	2950	4	78	0.87	8.10	25	580(615)	500(535)	395	295	170	132(167)	61
24	50WQ 25-22-4	50	25	22	2950	4	78	0.87	8.10	25	580(615)	500(535)	395	295	170	132(167)	61
25	65WQ 20-25-4	65	20	25	2950	4	78	0.87	8.10	30	580(615)	500(535)	430	315	180	132(167)	60
26	80WQ 40-15-4	80	40	15	2950	4	78	0.88	8.10	30	600(635)	520(555)	440	315	180	140(175)	61
27	80WQ 60-12-4	80	60	12	2950	4	78	0.88	8.10	30	600(635)	520(555)	440	315	180	140(175)	61
28	100WQ 80-8-4	100	80	8	2950	4	78	0.87	8.10	35	600(635)	520(555)	475	315	190	140(183)	62
29	50WQ 15-40-5.5	50	15	40	2950	5.5	81	0.88	11.00	30	600(635)	520(555)	410	310	185	132(167)	68
30	50WQ 25-25-5.5	50	25	25	2950	5.5	81	0.88	11.00	30	600(635)	520(555)	410	310	185	132(167)	68
31	65WQ 30-30-5.5	65	30	30	2950	5.5	81	0.88	11.00	30	605(640)	525(560)	410	315	180	132(167)	65
32	80WQ 40-22-5.5	80	40	22	2950	5.5	81	0.88	11.00	30	625(660)	545(580)	440	315	185	140(175)	74
33	80WQ 65-15-5.5	80	65	15	2950	5.5	81	0.88	11.00	30	625(660)	545(580)	440	315	185	140(175)	74
34	80WQ 85-10-5.5	80	85	10	2950	5.5	81	0.88	11.00	30	625(660)	545(580)	440	315	185	140(175)	74
35	100WQ 65-15-5.5	100	65	15	2950	5.5	81	0.88	11.00	35	625(660)	545(580)	475	315	195	140(175)	74
36	100WQ 85-10-5.5	100	85	10	2950	5.5	81	0.88	11.00	35	625(660)	560(595)	475	315	195	140(175)	74

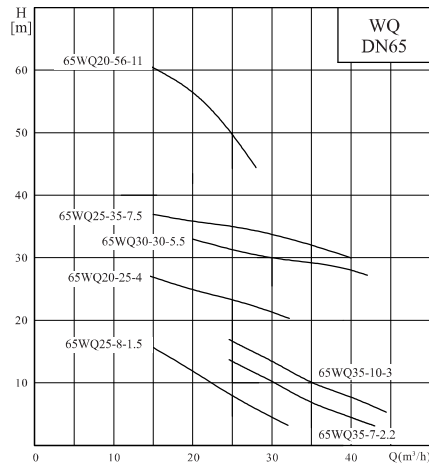
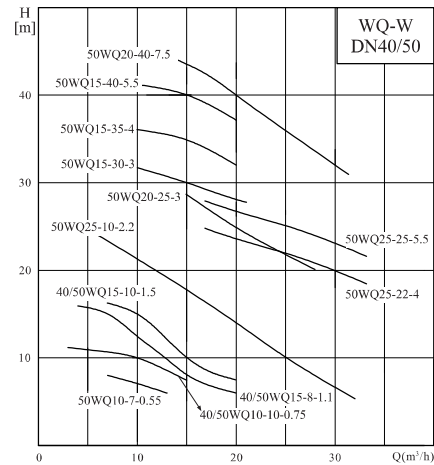
Technical data and dimensions

No.	Model	Diameter	Q	H	Speed	Power	Efficiency	Power factor	Rated current	Max. dia. of passing solid	Dimensions(mm)						Weight (kg)
		(mm)	(m ³ /h)	(m)	(rpm)	(kw)	(A)	cos φ	(A)	(mm)	H	H1	B3	B2	L5	H2	
37	150WQ 100-7-5.5	150	100	7	2950	5.5	81	0.88	11.00	45	720(755)	545(580)	540	330	195	145(180)	83
38	50WQ 20-40-7.5	50	20	40	2950	7.5	82	0.88	15.00	25	690(745)	590(645)	445	345	185	140(195)	95
39	50WQ 30-32-7.5	50	30	32	2950	7.5	82	0.88	15.00	25	690(745)	590(645)	445	345	185	140(195)	95
40	65WQ 25-35-7.5	65	25	35	2950	7.5	82	0.88	15.00	25	690(745)	590(645)	470	355	185	140(195)	73
41	80WQ 45-25-7.5	80	45	25	2950	7.5	82	0.88	15.00	30	710(765)	610(665)	510	365	205	146(201)	100
42	80WQ 65-20-7.5	80	65	20	2950	7.5	82	0.88	15.00	30	710(765)	610(665)	510	365	205	146(201)	100
43	100WQ 80-15-7.5	100	80	15	2950	7.5	82	0.88	15.00	35	710(765)	610(665)	525	365	205	151(206)	103
44	100WQ 45-25-7.5	100	45	25	2950	7.5	82	0.88	15.00	35	710(765)	610(665)	525	365	205	151(206)	103
45	150WQ 100-12-7.5	150	100	12	2950	7.5	83	0.88	15.00	45	800	630	575	365	200	180	108
46	150WQ 135-10-7.5	150	135	10	1475	7.5	82	0.85	16.00	45	855	685	575	520	300	235	143
47	65WQ 20-56-11	65	20	56	2950	11	83	0.89	22.00	25	850(905)	780(835)	500	365	195	185(240)	148
48	80WQ 40-45-11	80	40	45	2950	11	83	0.88	22.00	30	850(905)	780(835)	500	365	195	185(240)	153
49	100WQ 80-25-11	100	80	25	1475	11	83	0.85	23.00	35	910(965)	710(765)	700	540	325	210(265)	212
50	150WQ 130-15-11	150	130	15	1475	11	83	0.85	23.00	45	950(1005)	750(805)	770	560	350	240(295)	220
51	150WQ 200-10-11	150	200	10	1475	11	83	0.85	23.00	45	950(1005)	750(805)	770	560	350	240(295)	220
52	200WQ 300-7-11	200	300	7	1475	11	83	0.85	23.00	55	960(1015)	760(815)	870	580	355	240(295)	230
53	100WQ 80-30-15	100	80	30	1475	15	84	0.85	30.00	35	950(1050)	750(805)	700	540	325	210(265)	239
54	100WQ 100-22-15	100	100	22	1475	15	84	0.85	30.00	35	950(1050)	750(805)	700	540	325	210(265)	239
55	150WQ 130-20-15	150	130	20	1475	15	84	0.85	30.00	45	990(1045)	790(845)	770	560	350	240(295)	242
56	150WQ 150-18-15	150	150	18	1475	15	84	0.85	30.00	45	990(1045)	790(845)	770	560	350	240(295)	242
57	150WQ 200-15-15	150	200	15	1475	15	84	0.85	30.00	45	990(1045)	790(845)	770	560	350	240(295)	242
58	200WQ 250-12-15	200	250	12	1475	15	84	0.85	30.00	55	1000(1055)	800(855)	870	580	355	240(295)	257
59	100WQ 80-35-18.5	100	80	35	1475	18.5	85	0.85	36.00	35	1060(1115)	850(905)	710	550	325	210(265)	285
60	100WQ 100-30-18.5	100	100	30	1475	18.5	85	0.85	36.00	35	1060(1115)	850(905)	710	550	325	210(265)	285
61	150WQ 150-22-18.5	150	150	22	1475	18.5	85	0.9	36.00	45	1080(1135)	1030(1085)	830	620	350	240(295)	290
62	150WQ 180-20-18.5	150	180	20	1475	18.5	85	0.9	36.00	45	1080(1135)	1030(1085)	830	620	350	240(295)	290
63	200WQ 250-15-18.5	200	250	15	1475	18.5	85	0.85	36.00	50	1120(1175)	850(905)	870	580	355	250(305)	312
64	200WQ 300-12-18.5	200	300	12	1475	18.5	85	0.85	36.00	50	1120(1175)	850(905)	870	580	355	250(305)	312
65	100WQ 100-34-22	100	100	34	1475	22	86	0.87	42.00	35	1180(1245)	950(956)	840	680	420	220(275)	300
66	200WQ 250-17-22	200	250	17	1475	22	86	0.87	42.00	55	1150(1205)	890(945)	870	580	355	250(305)	330
67	200WQ 300-15-22	200	300	15	1475	22	86	0.87	42.00	55	1150(1205)	890(945)	870	580	355	250(305)	330
68	100WQ120-42-30	100	120	42	1475	30	86	0.87	58.00	35	1250(1315)	1050	870	710	450	220(275)	432
69	150WQ 180-30-30	150	180	30	1475	30	86	0.87	58.00	45	1240	1000	860	650	380	240	455
70	150WQ 250-22-30	150	250	22	1475	30	86	0.87	58.00	45	1240	1000	860	650	380	240	455
71	200WQ 360-16-30	250	360	16	1475	30	86	0.87	58.00	55	1240	1000	910	620	380	285	475
72	250WQ 600-9-30	200	600	9	1475	30	86	0.87	58.00	70	1290	1050	1010	660	390	330	490

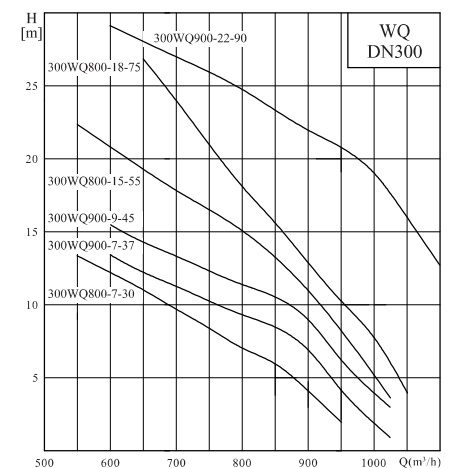
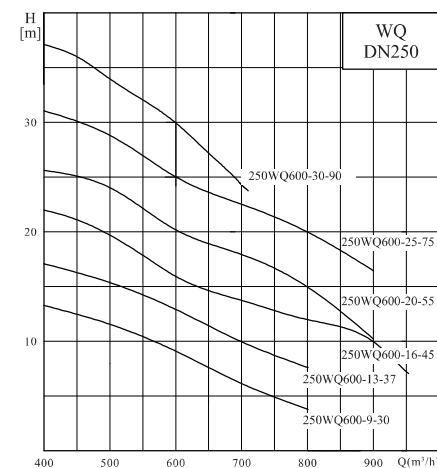
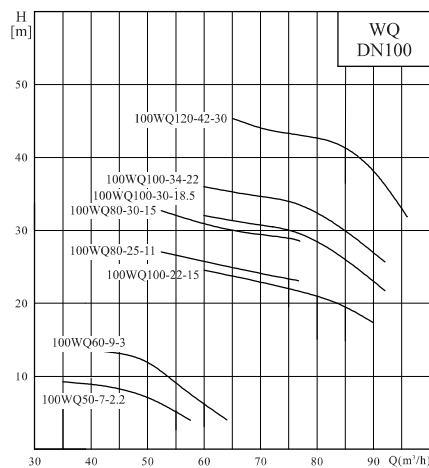
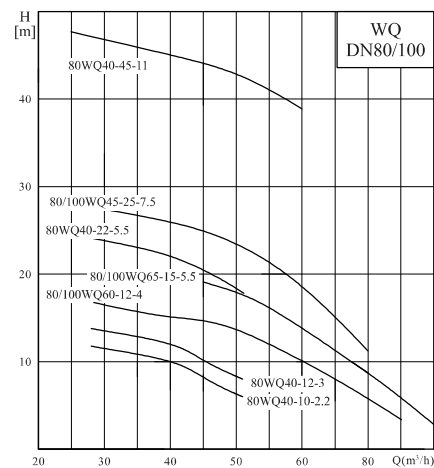
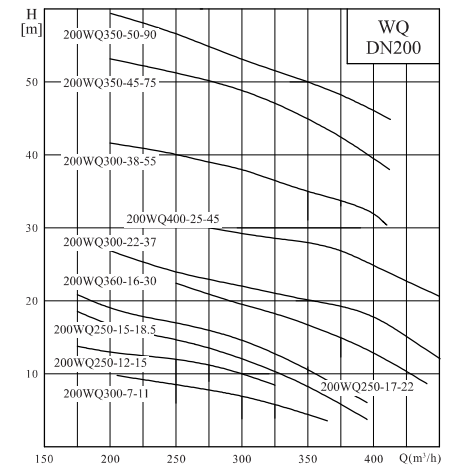
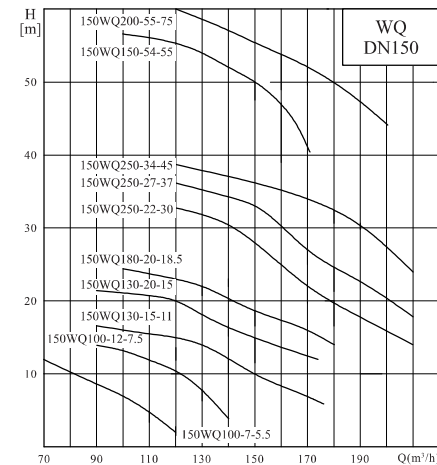
Technical data and dimensions

No.	Model	Diameter	Q	H	Speed	Power	Efficiency	Power factor	Rated current	Max.dia.of passing solid	Dimensions(mm)						Weight
		(mm)	(m ³ /h)	(m)	(rpm)	(kw)	(A)	cos φ	(A)	(mm)	H	H1	B3	B2	L5	H2	
73	300WQ 800-7-30	300	800	7	1475	30	86	0.87	58	70	1440	1200	1475	720	410	305	475
74	350WQ 1000-6-30	350	1000	6	980	37	88	0.86	70	85	1500	1300	1540	720	510	380	785
75	150WQ 180-34-37	150	180	34	1475	37	89	0.87	70	45	1240	1000	935	725	380	270	528
76	150WQ 250-27-37	150	250	27	1475	37	89	0.87	70	45	1240	1000	935	725	380	270	528
77	200WQ300-22-37	200	300	22	1475	37	89	0.87	70	55	1260	1020	910	620	380	285	528
78	200WQ400-18-37	200	400	18	1475	37	89	0.87	70	55	1260	1020	910	620	380	285	528
79	250WQ 600-13-37	250	600	13	1475	37	89	0.87	70	70	1320	1080	1010	660	390	330	545
80	300WQ 900-7-37	300	900	7	1475	37	89	0.87	70	70	1440	1200	1475	720	410	380	567
81	350WQ 1000-7-37	350	1000	7	980	37	88	0.86	70	85	1500	1300	1540	720	510	380	785
82	150WQ 180-37-45	150	180	37	1475	45	89	0.87	85	45	1340	1100	1030	750	380	270	528
83	150WQ 250-34-45	150	250	34	1475	45	89	0.87	85	45	1340	1100	1030	750	380	270	528
84	200WQ 400-25-45	200	400	25	1475	45	89	0.87	85	55	1320	1100	910	620	380	285	575
85	250WQ 600-16-45	250	600	16	1475	45	89	0.87	85	70	1360	1100	1010	660	390	330	600
86	250WQ 800-12-45	250	800	12	1475	45	89	0.87	85	70	1360	1100	1010	660	390	330	600
87	300WQ 900-9-45	300	900	9	1475	45	89	0.87	85	70	1490	1250	1475	720	410	305	626
88	350WQ 1000-10-45	350	1000	10	1475	45	88	0.87	85	85	1500	1250	1530	1040	650	280	832
89	150WQ150-54-55	150	150	54	1475	55	90	0.87	103	45	1530	1300	1020	770	480	250	890
90	150WQ200-50-55	150	200	50	1475	55	90	0.87	103	45	1530	1300	1020	770	480	250	890
91	200WQ 300-38-55	200	300	38	1475	55	90	0.87	103	55	1500	1150	1010	720	458	335	806
92	200WQ 400-32-55	200	400	32	1475	55	90	0.87	103	55	1500	1150	1010	720	458	335	806
93	250WQ 600-20-55	250	600	20	1475	55	90	0.87	103	70	1500	1150	1070	720	458	390	825
94	300WQ 800-15-55	300	800	15	1475	55	89	0.87	103	70	1490	1250	1475	905	500	400	626
95	350WQ 1100-10-55	350	1100	10	1475	55	89	0.87	103	85	1500	1200	1590	1130	680	429	832
96	400WQ 1300-8-55	400	1300	8	980	55	90	0.87	105	85	1520	1200	1810	1200	670	380	1410
97	150WQ 200-55-75	150	200	55	1475	75	90	0.87	140	45	1600	1350	1100	985	600	250	910
98	200WQ 350-45-75	200	350	45	1475	75	90	0.87	140	55	1550	1250	1010	720	458	335	906
99	250WQ 600-25-75	250	600	25	1475	75	90	0.87	140	65	1520	1180	1070	720	458	390	955
100	300WQ 800-18-75	300	800	18	1475	75	90	0.87	140	80	1570	1170	1475	905	500	400	1010
101	350WQ 1200-15-75	350	1200	15	980	75	90	0.82	155	85	1520	1200	1590	1150	700	380	1100
102	400WQ 1400-12-75	400	1400	12	980	75	90	0.82	142	85	1580	1280	2055	1400	750	380	2010
103	200WQ350-50-90	200	350	50	1475	90	91	0.871	167	50	1700	1300	1400	780	520	300	1200
104	250WQ 600-30-90	250	600	30	1475	90	91	0.871	167	65	1580	1200	1400	720	458	390	1008
105	300WQ 900-22-90	300	900	22	1475	90	91	0.871	167	70	1570	1200	1475	905	500	400	1060
106	350WQ 1100-18-90	350	1100	18	980	90	90	0.87	167	85	2365	2100	1590	1190	710	380	1410
107	400WQ 1500-15-90	400	1500	15	980	90	90	0.81	170	95	2000	1700	2155	1500	900	380	1500
108	500WQ 2000-10-90	500	2000	10	980	90	77	0.81	170	95	2100	1800	2210	1550	920	520	1600

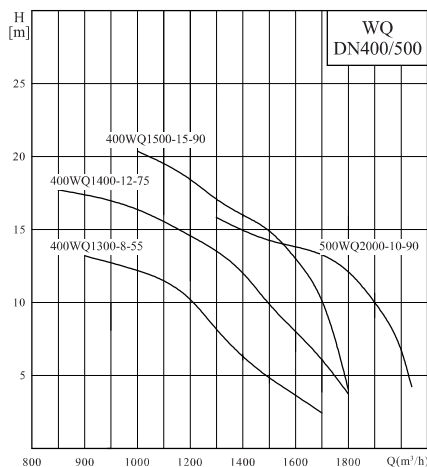
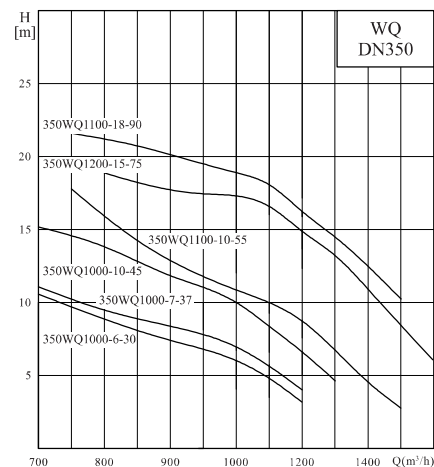
Performance curve



Performance curve



Performance curve



WQ-F submersible sewage pump

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).

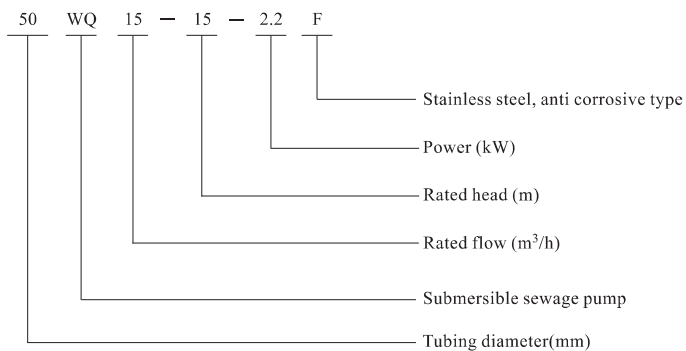
Application

- 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, $3 \times 380V$
- Medium temperature $< 60^{\circ}C$, PH value is 2-12, medium density $< 1200kg/m^3$, solid and liquid ratio $< 2\%$.
- When working, motor on liquid level shall more than 1/2 of the whole motor.

Definition of model



- **Material**

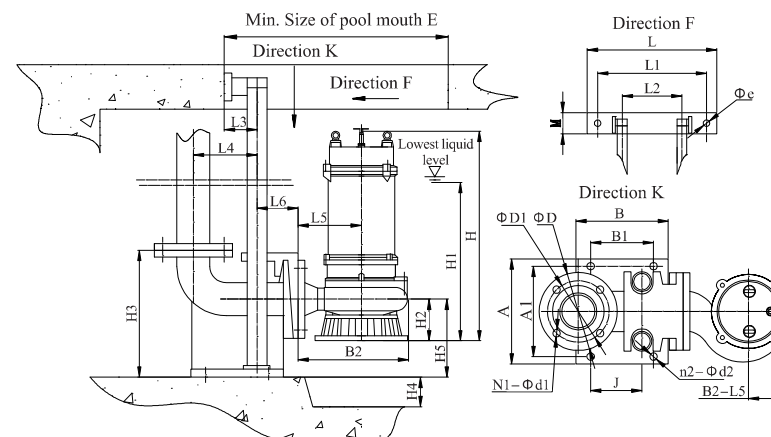
Technical drawing of a vertical pump assembly, showing a cross-section view. The drawing includes numbered callouts (1 through 11) pointing to various components. The assembly consists of a vertical shaft with a pump head at the top, a pump body in the middle, and a pump base at the bottom. The pump head includes a motor and a pump shaft. The pump body includes a pump chamber and a pump shaft. The pump base includes a pump shaft and a pump base. The drawing is a technical illustration of a vertical pump assembly.

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

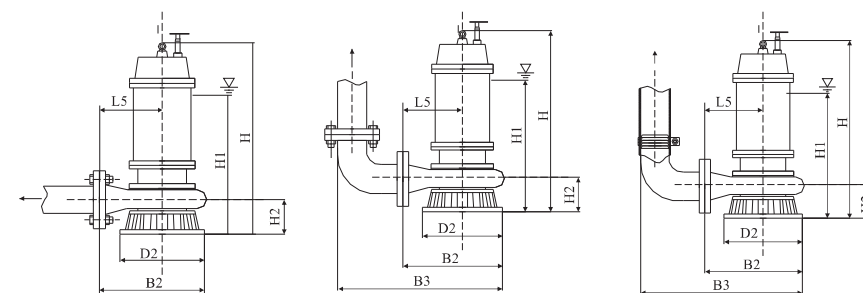
Technical drawing of a mechanical device, likely a pump or valve assembly, showing a cross-section with numbered components (1-15). The device features a central vertical shaft with various seals and bearings. A large horizontal flange is at the bottom, and a smaller vertical flange is at the top. The drawing includes a dashed line indicating the axis of symmetry.

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

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			Coupling base dimension							H3	H4	H5	L	L1	L2	M	Φe	L3	L4	L6	Φd×t
		D	D1	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	Φ34×3	
2	65WQF	180	145	4-Φ19	190	150	280	190	221	4-Φ19	240	100	120	220	180	60	44	12	50	149	55	Φ34×3	
3	80WQF	195	160	8-Φ19	230	170	300	210	235	4-Φ19	270	150	130	250	210	80	50	15	57	165	63	Φ48×3	
4	100WQF	215	180	8-Φ19	230	190	300	210	237	4-Φ25	300	150	150	250	210	80	50	15	57	185	63	Φ48×3	
5	150WQF	280	240	8-Φ19	300	250	460	330	367	4-Φ25	380	150	180	330	280	120	50	19	62	305	76	Φ48×3	
6	200WQF	335	295	8-Φ19	400	372	420	324	548	4-Φ25	508	200	277	410	370	192	50	15	78	200	156	Φ48×3	
7	250WQF	395	350	4-Φ19	420	360	580	450	471	4-Φ25	500	200	240	340	280	160	70	23	115	359	95	Φ48×3	
8	300WQF	445	400	12-Φ23	460	400	630	500	521	4-Φ25	560	200	260	380	320	200	70	23	115	400	95	Φ60×3	
9	350WQF	505	460	16-Φ23	650	419	645	400	320	4-Φ25	855	200	480	520	460	196	65	16	145	424	285	Φ60×3	
10	400WQF	565	515	16-Φ28	630	490	675	520	390	4-Φ25	965	200	560	520	350	196	65	16	145	460	288	Φ60×3	
11	500WQF	670	620	20-Φ28	650	550	700	600	580	4-Φ40	950	200	490	600	400	300	130	22	130	600	250	Φ75×3	

Relevant dimensions

Measure: mm (except inch)

Diameter Item	40	50	65	80	100	150	200	250	30	350	400	450	500	600
Dia. of guide tube	1"			1.5"					2"			2.5"		
Length of guide tube	Pool depth-H4-46-2/M													
Quantity and specification of expansion bolt	2-M12×150				2-M12×150				2-M16×150			2-M20×150		
Quantity and specification of anchor bolt	4-M16×250				4-M20×300								4-M24×400	
Hole size of anchor bolt	80×80×300				100×100×350								150×150×400	
Dia. Of rubber pipe	1.5" /40	2" /50	2.5" /65	3" /76	4" /100	6" /150	8" /200	10" /250	12" /300	14" /350	16" /400	18" /450	20" /500	24" /600

Coupling configuration of WQ and WQF are the same.

Technical data and dimensions

No.	Model	Diameter (mm)	Q (m³/h)	H (m)	Power (kw)	Speed (rpm)	Voltage (V)	d (mm)	L5	B2	H	H1	H2	L8	L9	L7	Weight (kg)
1	50WQF10-7-0.55	50	10	7	0.55	2950	380/220	15	135	200	490	420	110	90	95	105	23
2	50WQF10-10-0.75		10	10	0.75			15	135	200	490	420	110	90	95	105	24
3	50WQF7-15-1.1		7	15	1.1			15	135	200	490	420	110	85	90	95	25
4	50WQF15-8-1.1		15	8	1.1			15	135	200	490	420	110	90	95	105	25
5	50WQF10-15-1.5		10	15	1.5			15	150	240	530	460	125	100	105	115	29
6	50WQF15-10-1.5		15	10	1.5			15	150	240	530	460	125	100	105	115	29
7	65WQF25-8-1.5	65	25	8	1.5	2950	380	15	150	240	530	460	125	100	105	115	29
8	50WQF9-22-2.2	50	9	22	2.2			15	150	240	530	460	125	100	105	115	38
9	50WQF25-10-2.2		25	10	2.2			15	150	240	530	460	125	100	105	115	37
10	65WQF35-7-2.2	65	35	7	2.2			25	150	240	530	460	125	95	100	110	38
11	80WQF40-10-2.2	80	40	10	2.2			25	165	240	530	460	125	100	110	125	41
12	50WQF15-30-3	50	15	30	3			20	160	240	550	480	120	100	110	120	43
13	50WQF25-15-3		25	15	3			20	160	240	550	480	120	100	110	120	43
14	65WQF35-10-3	65	35	10	3			25	160	240	560	490	134	95	100	110	44
15	80WQF40-12-3	80	40	12	3			25	180	240	570	500	110	120	135	125	44
16	50WQF15-35-4	50	15	35	4			15	160	270	580	480	134	110	120	130	61
17	50WQF25-22-4		25	22	4			15	160	270	580	480	134	110	120	130	61
18	65WQF20-25-4	65	20	25	4			25	180	270	605	525	134	110	120	130	62
19	80WQF40-15-4	80	40	15	4			25	180	270	650	550	155	115	130	135	63
20	80WQF60-12-4		60	12	4			25	180	270	650	550	155	115	130	135	63
21	100WQF80-8-4	100	80	8	4			30	190	270	650	550	155	130	140	160	64
22	50WQF15-40-5.5	50	15	40	5.5			15	160	270	635	510	134	110	120	130	68
23	50WQF25-25-5.5		25	25	5.5			15	160	270	635	510	134	116	125	140	68
24	65WQF30-30-5.5	65	30	30	5.5			15	180	270	650	525	134	117	125	130	69
25	80WQF40-22-5.5	80	40	22	5.5			25	160	270	650	550	140	110	120	130	74
26	80WQF65-15-5.5		65	15	5.5			25	180	270	650	550	140	110	120	130	74
27	80WQF85-10-5.5	100	85	10	5.5			25	180	270	650	550	140	110	120	130	74
28	100WQF65-15-5.5		65	15	5.5			30	180	270	650	550	140	110	130	150	76
29	100WQF85-10-5.5	100	85	10	5.5			30	180	270	650	550	140	110	130	150	76
30	50WQF20-40-7.5		20	40	7.5			15	185	320	690	510	140	135	140	145	95
31	50WQF30-32-7.5	50	30	32	7.5			15	185	320	690	510	140	135	140	145	95
32	65WQF25-35-7.5		25	35	7.5			25	185	320	850	685	140	180	190	195	97
33	80WQF45-25-7.5	80	30	32	7.5			25	205	320	710	610	140	140	155	160	100
34	80WQF65-20-7.5	80	65	20	7.5			25	205	320	710	610	140	140	155	160	100
35	100WQF80-15-7.5	100	80	15	7.5			30	210	320	720	650	190	140	150	155	103
36	100WQF45-25-7.5		45	25	7.5			25	210	320	720	650	190	140	150	155	103

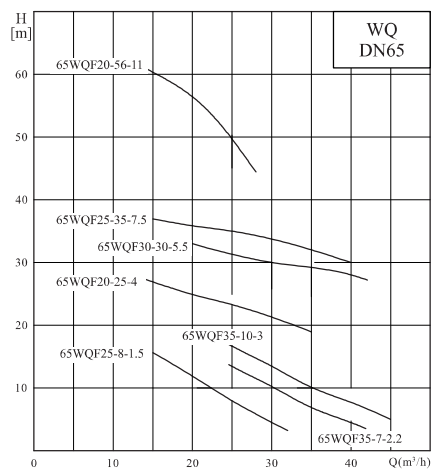
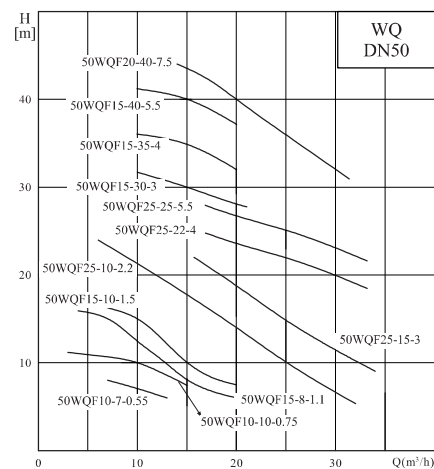
Technical data and dimensions

No.	Model	Diam eter (mm)	Q (m³/h)	H (m)	Power (kw)	Speed (rpm)	Voltage (V)	d (mm)	L5	B2	H	H1	H2	L8	L9	L7	Weight (kg)	
37	65WQF20-56-11	65	20	56	11	2950	380	25	220	350	850	700	185	135	145	150	148	
38	80WQF40-4 5-11	80	40	45	11			25	250	350	1050	800	156	170	190	200	153	
39	100WQF45-40-11	100	45	40	11			30	325	350	1200	800	210	210	220	230	212	
40	100WQF80-25-11		80	25	11	1475		50	340	380	1200	800	210	210	220	230	280	
41	150WQF130-15-11	150	130	15	11			60	360	380	1200	800	210	210	240	260	290	
42	150WQF200-10-11		200	10	11			60	360	380	1200	800	210	210	240	260	290	
43	200WQF300-7-11	200	300	7	11	2950		70	420	380	1350	900	250	230	270	310	300	
44	80WQF50-45-15	80	50	45	15			15	250	440	1050	700	220	180	185	190	200	
45	100WQF80-30-15	100	80	30	15			50	340	380	1200	800	210	210	220	230	330	
46	100WQF120-22-15		120	22	15	1475		50	340	380	1200	800	210	210	220	230	330	
47	150WQF150-18-15	150	150	18	15			60	360	380	1200	800	210	210	240	260	350	
48	150WQF200-15-15		200	15	15			60	360	380	1200	800	210	210	240	260	350	
49	100WQF70-40-15	100	70	40	15	2950		15	250	360	1250	800	150	160	170	180	220	
50	100WQF100-30-18.5		100	30	18.5			50	385	380	1500	900	210	230	250	270	350	
51	150WQF150-22-18.5	150	150	22	18.5	1475		50	385	380	1500	900	210	230	250	270	370	
52	200WQF250-15-18.5	200	250	15	18.5			80	450	380	1600	950	250	270	310	350	380	
53	200WQF300-12-18.5		300	12	18.5			80	450	380	1600	950	250	270	310	350	380	
54	80WQF50-65-22	80	50	65	22	2950		10	280	300	1300	900	155	160	170	180	390	
55	100WQF100-34-22	100	100	34	22			50	385	380	1500	900	210	230	250	270	370	
56	150WQF130-30-22	150	130	30	22	1475		50	385	380	1500	900	210	230	250	270	380	
57	200WQF250-17-22	200	250	17	22			80	450	380	1600	950	250	270	310	350	390	
58	200WQF300-15-22		300	15	22			80	450	380	1600	950	250	270	310	350	390	
59	200WQF400-10-22	200	400	10	22	2950		80	450	380	1600	950	250	270	310	350	390	
60	100WQF80-65-30	100	80	65	30			10	280	300	1300	900	155	160	170	180	430	
61	150WQF150-30-30	150	150	30	30			45	380	500	1240	1000	240	240	260	280	455	
62	150WQF250-22-30		250	22	30	1475		45	380	500	1240	1000	240	240	260	280	455	
63	200WQF400-18-30	200	400	18	30			55	380	500	1240	1000	285	260	290	310	475	
64	250WQF600-9-30	250	600	9	30	980		65	390	500	1290	1050	285	260	290	310	475	
65	300WQF900-7-30	300	900	8	30			70	580	475	1800	1300	270	315	370	435	700	
66	150WQF180-35-37	150	180	35	37	1475		45	380	500	1240	1000	270	260	280	300	485	
67	200WQF400-20-37	200	400	20	37			50	380	500	1260	1000	285	270	290	310	528	
68	200WQF500-17-37		500	17	37			50	380	500	1260	1000	285	270	290	310	528	
69	250WQF600-12-37	250	600	12	37	980		65	390	530	1320	1060	330	270	300	330	545	
70	150WQF250-25-37	150	250	25	37			80	510	475	1800	1100	290	300	325	350	800	
71	300WQF900-8-37	300	900	8	37			70	580	475	1800	1300	270	315	370	435	880	
72	150WQF150-48-45	150	150	48	45	1475		35	460	475	1800	1100	220	260	285	320	950	

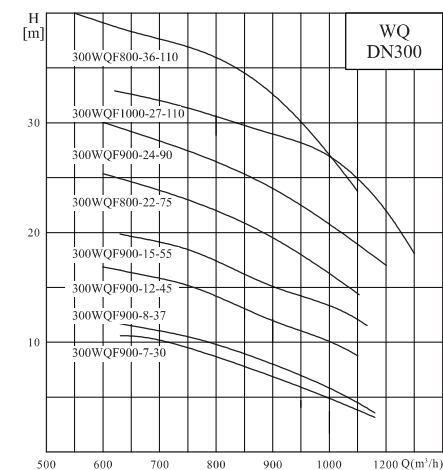
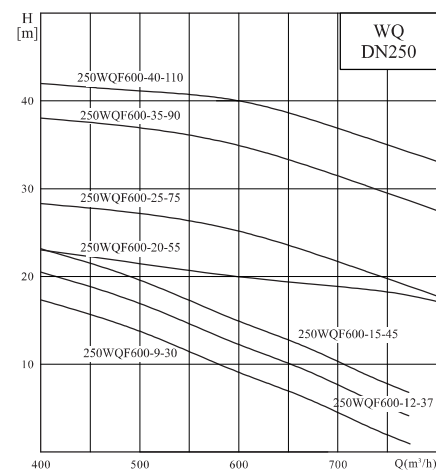
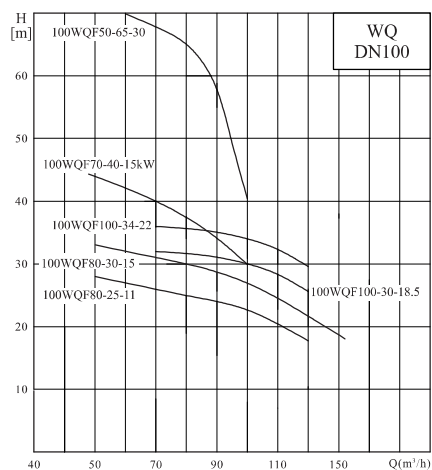
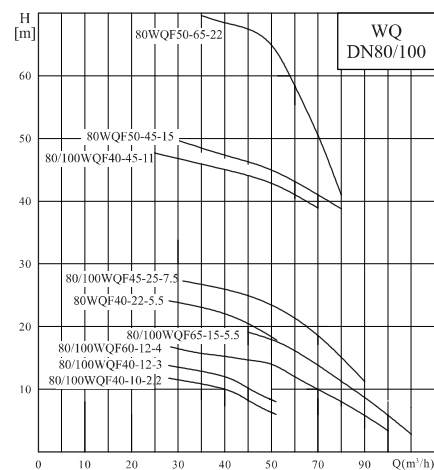
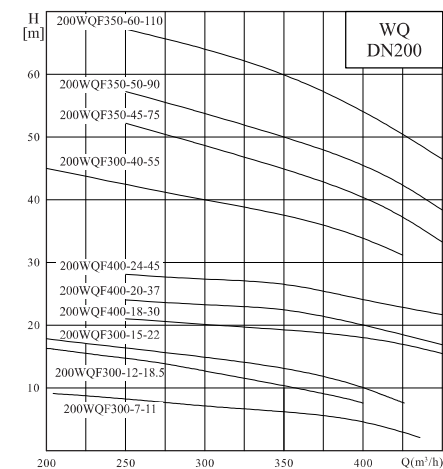
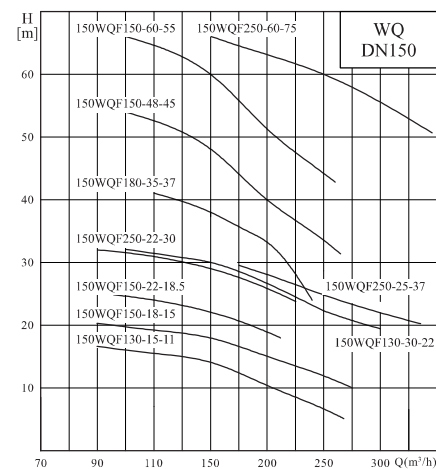
Technical data and dimensions

No.	Model	Diam eter (mm)	Q (m³/h)	H (m)	Power (kw)	Speed (rpm)	Voltage (V)	d (mm)	L5	B2	H	H1	H2	L8	L9	L7	Weight (kg)
73	150WQF240-35-45	150	240	35	45	1475	380	35	460	475	1800	1100	220	260	285	320	950
74	200WQF400-24-45	200	400	24	45			60	380	500	1320	1100	285	270	290	310	575
75	200WQF500-22-45		500	22	45			60	380	500	1320	1100	285	270	290	310	575
76	250WQF600-15-45	250	600	15	45	980		75	390	530	1360	1140	330	270	300	330	600
77	300WQF900-12-45	300	900	12	45			90	600	550	2000	1400	285	350	390	430	1100
78	150WQF150-60-55	150	150	60	55			35	460	475	1800	1100	220	260	285	320	1350
79	150WQF200-50-55		200	50	55	35		460	475	1800	1100	220	260	285	320	1350	
80	200WQF300-40-55	200	300	40	55	1475		35	460	475	1800	1100	220	260	285	320	1400
81	200WQF400-34-55		400	34	55			35	460	475	1800	1100	220	260	285	320	1400
82	250WQF600-20-55	250	600	20	55			980	90	570	550	2000	1400	285	310	340	380
83	250WQF800-17-55		800	17	55	90			600	550	2000	1400	285	350	390	430	1500
84	300WQF900-15-55	300	900	15	55	90			600	550	2000	1400	285	350	390	430	1600
85	350WQF1200-10-55	350	1200	10	55	1475		90	650	550	2050	1450	315	365	435	510	1700
86	150WQF250-60-75	150	250	60	75			35	600	550	2050	1300	230	345	385	430	1500
87	200WQF350-45-75	200	350	45	75			35	600	550	2050	1300	230	345	385	430	1550
88	250WQF600-25-75	250	600	25	75	980		70	700	650	2300	1500	270	420	480	530	1650
89	300WQF800-22-75	300	800	22	75			70	700	650	2300	1500	270	420	480	530	1700
90	350WQF1200-15-75	350	1200	15	75			150	700	550	2450	1600	370	380	435	490	1750
91	200WQF350-50-90	200	350	50	90	1475		35	600	550	2050	1300	230	345	385	430	1500
92	250WQF600-35-90	350	600	35	90	980		35	630	650	2300	1500	270	370	420	450	1750
93	300WQF900-24-90	300	90	24	90			70	700	650	2300	1500	270	420	480	530	1800
94	350WQF1200-18-90	350	1200	18	90			150	700	550	2450	1600	370	380	435	490	1900
95	400WQF1800-13-90	400	1800	13	90	1475		150	750	550	2450	1700	370	380	435	490	2000
96	200WQF350-60-110	200	350	60	110			35	600	550	2100	1400	230	355	400	440	1600
97	250WQF600-40-110	250	600	40	110			35	630	650	2300	1700	270	370	420	450	2000
98	300WQF800-36-110	300	800	36	110	980		35	630	650	2450	1700	270	390	435	490	2100
99	300WQF1000-27-110	300	1000	27	110			35	700	650	2450	1700	270	420	480	530	2100
100	350WQF1200-20-110	350	1200	20	110			150	700	550	2450	1800	370	380	435	490	2200
101	400WQF1900-15-110	400	1900	15	110			150	700	550	2450	1900	370	380	435	490	2300

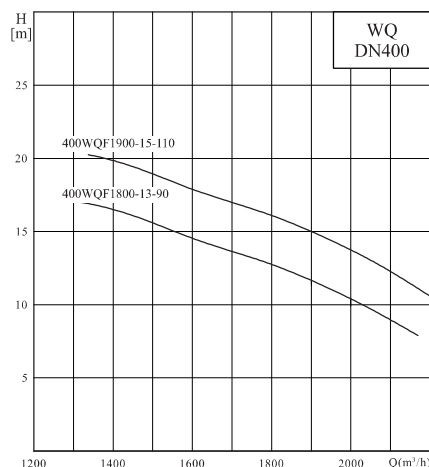
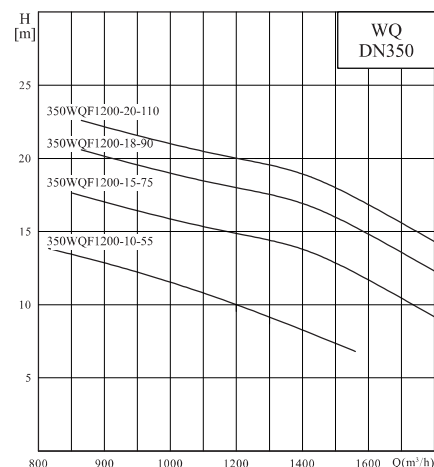
Performance curve



Performance curve



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.

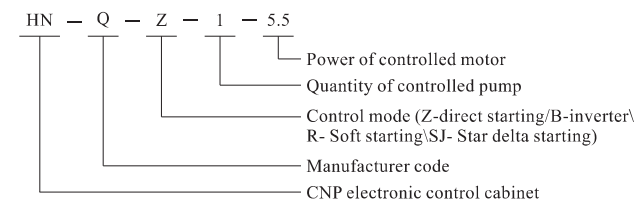
Operation condition and installation condition

- 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, afloat 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

Definition of model



NH electric control cabinet

- **Supply range**

Installation method	Complete supply parts	Optional part		Spare parts
Mobile hose installation	Main pump, hose connector	Hose	Electric control cabinet, terminal box, chain cable (for lifting), dirt suction grid (customized), hoist (custom), rectangular gate (customized)	Impeller Scaling ring Bearing Mechanical Seal
Mobile pipe installation	Main pump, flanges	Double flange joints		
Automatic coupling installation	Main pump, automatic coupling device	Guide tube, anchor bolt, expansion bolt		

● Ordering Instructions

- Please indicate product model, name, performance parameters (flow rate, head), installation method, options, spare parts, etc. when ordering. Influence of medium weight on power, effects and requirements of medium corrosivity and friction on overcurrent seals, should be taken into consideration when selecting the model.
- Special requirements for safety protection inside the pump (oil-water probe, water inlet probe, thermal element, etc.) must be stated or indicated when ordering. Control method and automation requirements should be indicated when the electric control cabinet is ordered as well.
- Standard configuration cable length is 9 meters, please start from 15 meters (increase by multiple 5 meters), if you need other lengths.
- Please indicate start mode of the pump when ordering. The standard form is: direct starting for 37kW and below, star delta starting for 45kW and above. The direct starting model draws U V W from the inside of the pump, and the star-delta model draws U1 V1 W1, U2 V2 W2 from the inside of the pump.
- 11kW and above are recommended to use the inverter, auto-coupling or soft starter to start the pump when the star-delta startup is not used.
- The pressure level of the water pump outlet is PN6.

MEMO

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