



WQ

50Hz

Submersible sewage pump



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E221004

subject to amendments



Stock code: 300145

Pumping Water Pumping Honor



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 2019, CNP's annual output exceeded 900,000 units/set with nearly 3 billion sales revenue, continuing to maintain high growth. As a national enterprise technology center, CNP has flagship ultra-high efficient product - new generation CDM (F) light vertical multistage centrifugal pump, MEI > 0.7. Same series high temperature pump products are developed in 2019 to satisfy high temperature applications. All light stainless steel pump product series grow stably. Advanced frequency conversion water supply equipment has been innovated to the 6th generation. Fire pump and diesel engine have obtained UL certification. TD in-line pump, NIS/NISO end suction pump, NSC split casing pump, WQ sewage pump, PQ stainless steel fountain submersible pump, BP silent tube pump, pool pump, non-blocking self-priming 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 <g> 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.

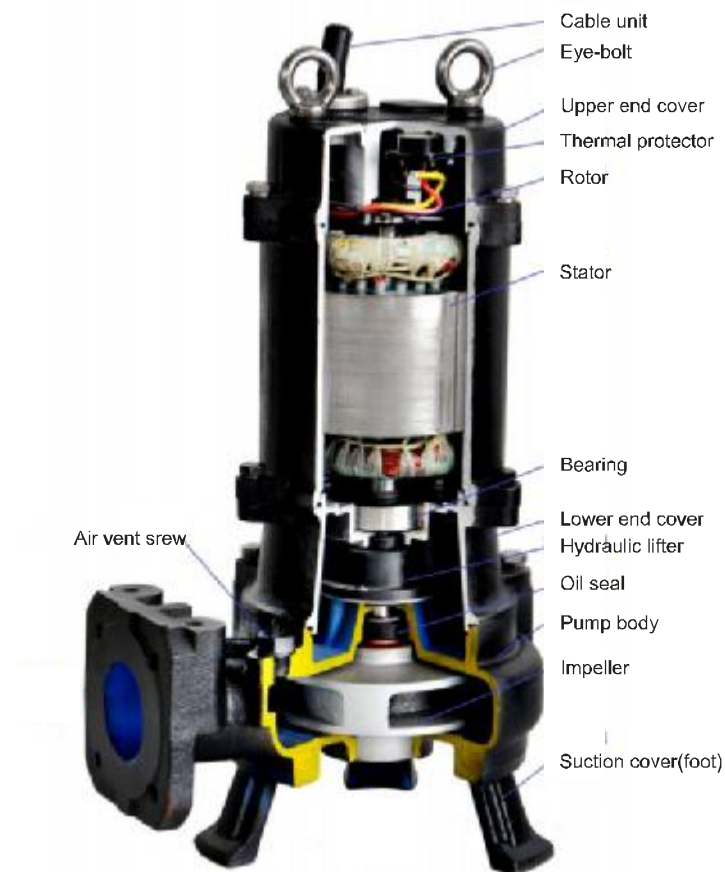
CNP, a green water expert beside you.

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New generation submersible sewage pump



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

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.

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)

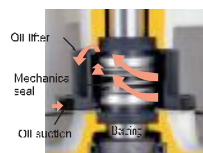
Under 4kW

Above 5.5kW

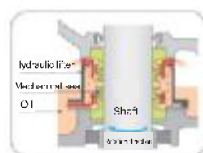


Under 7.5kW

Above 11kW



← Oil flow direction



- 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.

- Power Supply: 50Hz, 3x380V;
- 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.

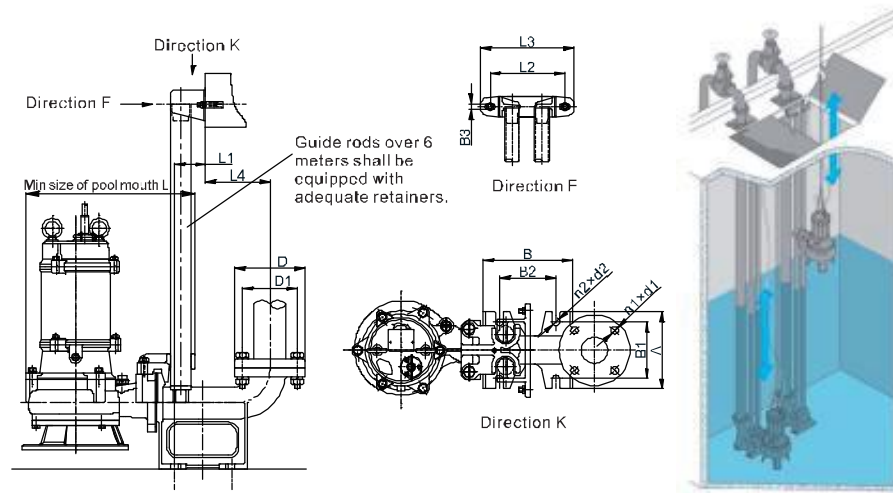
The diagram illustrates the meaning of each part of the pump model number 80WQD40154WJYQG2(I). The parts are listed on the left, and their corresponding descriptions are on the right, connected by lines.

Part	Description
80	Tubing diameter(mm)
WQ	Submersible sewage pump
D	Single phase(not exist for non-single phase type)
X	Swirl type(not exist for non-swirl type)
40	Rated flow(m³/h)
15	Rated head(m)
4	Rated power(kW)
W	Non-clogging cutting type(Non non-clogging cuttingtype omitted)
H	High lift
JY	Even-stirring type (Non even-stirring type omitted)
QG	Cutting type (Non-cutting type omitted)
2	Motor pole (not exist for 2-pole,marked for 4,6,8-pole)
(I)	New generation product

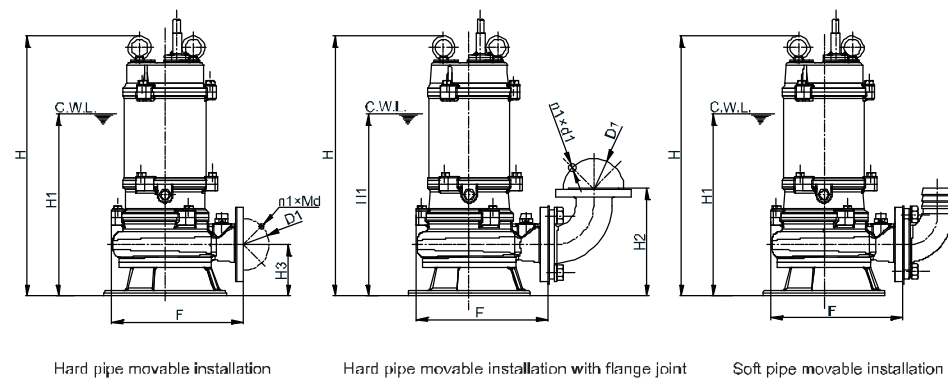


Installation type

Fixed auto coupling device installation



Movable installation



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

Coupling device dimensions and pump outlet flange dimensions (refer to page 4 for size remark details)

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-Ø14	4-M12	140	149	100	95	2-Ø14	4-Ø18	400	73	185	230	57
2	DN50	140	110	4-Ø14	4-M12	160	200	120	120	2-Ø14	4-Ø18	400	60	185	230	175
3	DN65	160	130	4-Ø14	4-M12	190	220	140	140	2-Ø14	4-Ø18	415	75	195	230	130
4	DN80	190	150	4-Ø18	4-M16	220	250	170	170	2-Ø14	4-Ø18	415	75	195	230	165
5	DN100	210	170	4-Ø18	4-M16	250	290	200	200	2-Ø15	4-Ø18	480	114	245	300	176
6	DN150 (TOS150)	265	225	8-Ø18	8-M16	400	410	300	300	3-Ø15	4-Ø24	925	190	260	380	190
7	DN150 (TO150)	265	225	8-Ø19	8-M16	400	410	300	300	3-Ø15	4-Ø24	1048	220	260	380	160
8	DN200	320	280	8-Ø19	8-M16	400	450	300	350	3-Ø15	4-Ø24	1048	200	260	380	229
9	DN250	375	335	12-Ø19	12-M16	460	560	360	430	3-Ø15	4-Ø24	1078	200	280	380	300
10	DN300	440	395	12-Ø23	12-M20	600	630	500	470	3-Ø18	4-Ø28	1205	270	400	700	300
11	DN350	490	445	12-Ø23	12-M20	640	650	520	470	4-Ø23	4-Ø28	1267	270	400	700	330
12	DN400	565	515	16-Ø26	16-M24	750	960	600	650	4-Ø23	4-Ø35	1387	280	840	930	650
13	DN500	675	620	20-Ø26	20-M24	1000	1100	800	800	4-Ø23	4-Ø42	1872	290	990	1100	601

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

Relevant dimensions

Measure:mm(Except inch)

Diameter I.e.m	DN40	DN50	DN65	DN80	DN100 TOS-100	DN100 TOS-100F	DN150 (TOS150)	DN150 (TO150)	DN200	DN250	DN300	DN350	DN400	DN500				
	Guide rod tap pipe / Seamless steel pipe				1" /33×3.0				1.25" /42×3.0		2" /60×3.25			1.5" /48×3.25		2.5" /75×4		4" /" 14×4
Guide rod length	Pool depth 245	Pool depth 285	Pool depth 300	Pool depth 320	Pool depth 365			Pool depth 100			Pool depth 150		Pool depth 70	Pool depth 870	Pool depth 1120			
Quantity of expansion bolt and specification	2-M10×120				2-M12×125					2-M12×125		2-M16×150		3-M16×150		4-M20×200		
Quantity of bolt and specification	4-M16×250						4-M20×300				4-M24×350		4-M24×350		4-M30×400	4-M36×400		
Footer bolt hole size	80×80×300						100×100×350				120×120×400		120×120×400	120×120×400	150×150×450			
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	DN350	DN400	DN500				

Light coupling device dimensions and pump outlet flange dimensions^(refer to page 4 for size remark details)

(fit for 6P/8P-22-75kW, DN350-500 pump)

Measure:mm

No.	Diameter	Flange connection size				Coupling base dimension(mm)						L	L1	L2	L3	L4
		D	D1	n1×d1	n1×Md	A	B	B1	B2	B3	n2×d2					
1	DN350	510	445	12-Ø22	12-M20	588	617	420	402	3-Ø16	4-Ø26	1252	173	325	500	321
2	DN400	565	515	16-Ø26	16-M24	618	663	490	510	3-Ø16	4-Ø26	1240	187	325	500	368
3	DN500	673	620	20-Ø26	20-M24	743	751	570	550	3-Ø20	4-Ø34	1800	200	660	745	449

Foot bracket is not included in coupling installation for DN350-DN500 pump.

Pressure grade is PN0.6MPa for DN350 flange, and PN1.0MPa for DN400 and DN500 flange.

Relevant dimensions

Measure:mm(Except inch)

Item	Diameter	DN350	DN400	DN500
Guide rod tap pipe / Seamless steel pipe		2"/60×3.25	2"/60×3.25	2.5"/75×4
Guide rod length		Pool depth-715	Pool depth-815	Pool depth-918
Quantity of expansion bolt and specification		3-M14×150	3-M14×150	3-M18×200
Quantity of bolt and specification		4-M24×350	4-M24×350	4-M30×400
Footer bolt hole size		120×120×400	120×120×400	150×150×450
Dia. of soft pipe		DN350	DN400	DN500

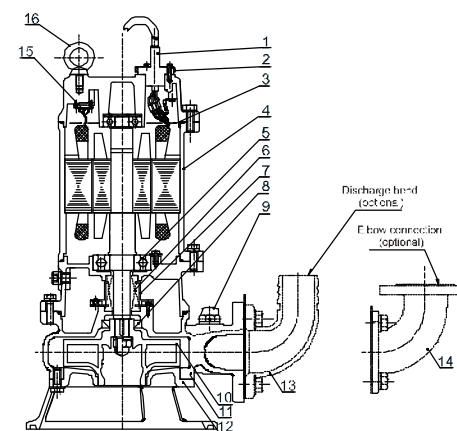
Please consult pre-sales technician for specific model and its installation drawing.

WQ(I) type submersible sewage pump

Sectional drawing of sewage pump with 2 pole motor

WQ(I) type

0.55~15kW

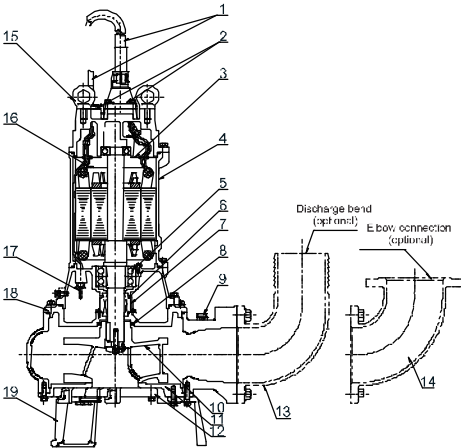


No.	Name	Material
1	Cable	YZW
2	Cable gland	/
3	Threading board	/
4	Electric motor	/
5	Bearing	/
6	Mechanical seal	Graphite/SIC SIC/SIC+C
7	Oil lifter	/
8	Oil seal	NBR1-2
9	Air vent screw	Resin/others
10	Impeller	HT200
11	Casing	HT200
12	Suction cover	HT200
13	Discharge bend (optional)	HT200
14	Elbow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

WQ(I) type submersible sewage pump

Sectional drawing of sewage pump with 4 pole motor

WQ(I) type 2.2~15kW

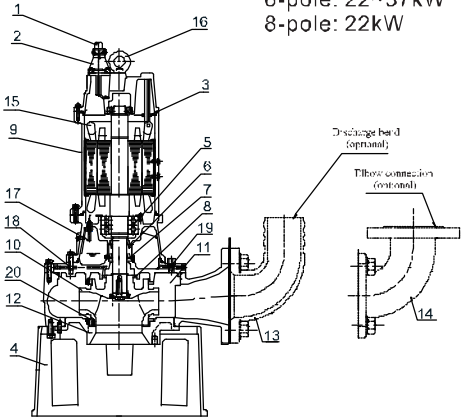


No.	Name	Material
1	Cable	YZW
2	Cable gland	/
3	Threading board	/
4	Electric motor	/
5	Bearing	/
6	Mechanical seal	Graphite/SIC SIC/SIC+C
7	Oil lifter	/
8	Oil seal	NBR1-2
9	Air vent screw	Resin/others
10	Impeller	HT200
11	Casing	HT200
12	Suction cover	HT200
13	Discharge bend (optional)	HT200
14	Discharge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

WQ(I) type submersible sewage pump

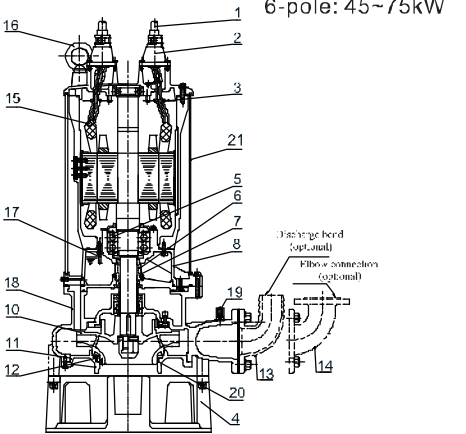
Sectional drawing of sewage pump with 4,6,8 pole motor

WQ(I) type 4-pole: 18.5~45kW
6-pole: 22~37kW
8-pole: 22kW



No.	Name	Material
1	Cable	YZW
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	304
20	Neck ring	HT200
21	Water isolation cover	Q235

WQ(I) type 4-pole: 55~75kW
6-pole: 45~75kW

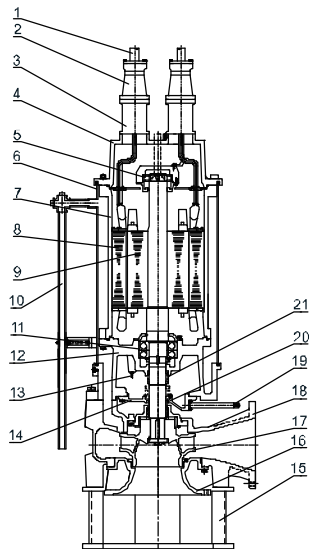


WQ(I) type submersible sewage pump

Sectional drawing of submersible pump with 4,6-pole motor

WQ(I) type

90kW~150kW



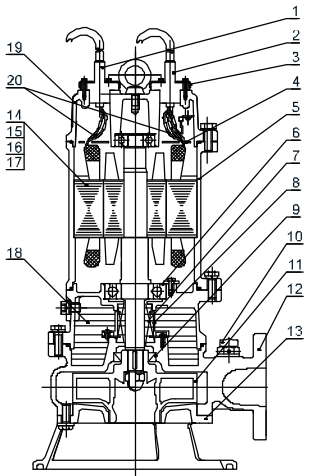
No.	Name	Material
1	Cable	YZW
2	Cable guard	HT200
3	Junction box	HT200
4	Upper cover	HT200
5	Upper bearing	Imported NSK
6	Water-resisting cover	Q235
7	Base	HT200
8	Stator with wire	/
9	rotor with shaft	/
10	Cooling water pipe	304
11	Lower bearing	Imported NSK
12	Lower cover	HT200
13	Leak sensor electrode bar	/
14	Casing top cover	HT200
15	Footsupport	Q235
16	Suction cover	HT200
17	Impeller	HT200
18	Pump body	HT200
19	Oil drain pipe	304
20	Framework seal	NBR1-2
21	Mechanical seal	Imported from Japn

WQ(I) type submersible sewage pump

Sectional drawing of hot temperature pump (medium temperature: 40~80°C)

WQ(I) type

0.37kW~15kW



All pumps with 2-pole motor can be referred.

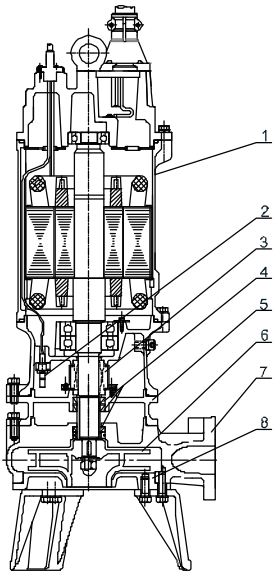
No.	Name	Material
1	Signal cable	Rubber submersible cable
2	Main cable	Rubber submersible cable
3	Cable guard	/
4	Threading board	/
5	Motor	/
6	Bearing	Special high temperature bearing
7	Mechanical seal	Customized special high temperature mechanical seal
8	Oil lifter	/
9	Framework seal	Fluorine rubber
10	Air vent screw	Resin
11	Impeller	HT200
12	Pump body	HT200
13	Inlet cover	HT200
14	Varnished wire	High-temperature resistant varnished wire
15	Slot wedge	High-temperature resistant slot wedge
16	Thermal protector	High-temperature resistant micro thermal protector
17	Insulation paper	High-temperature resistant insulation paper
18	Lubrication oil	46#Turbine oil
19	Top cover(LB processing)	HT200
20	Fixture wire	High-temperature resistant fixture wire

WQ(I) type submersible sewage pump

Introduction of high-resistance pump

1. Wear-resisting pump

The structure adopts several framework seal rings to prevent sediment and other things from entering the pump interior. Wear-resistant material is used to increase the strength and hardness of the pump.



2. Stainless steel impeller pump

Compared with cast iron impeller, 304 impeller cast by low temperature wax casting aluminum abrasive tools has the characteristics of corrosion resistance and higher efficiency, which can be applied to some corrosion-resistant medium places.

Present models: 65WQ40-50-11(I)
150WQ150-24-18.5(I)

No.	Name	Material
1	Motor	/
2	Immersed electrode	/
3	Mechanical seal	Customized wear-resistant mechanical seal
4	Framework seal	NBR
5	Casing top cover	Wear-resistant material
6	Impeller	Wear-resistant material
7	Pump body	Wear-resistant material
8	Inlet cove	Wear-resistant material

Technical data and dimensions(2 pole motor)

WQ(I) type submersible sewage pump

Model	Discharge	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	H3	Coupling	
40WQ12-10-0.75(I)	40	12	10	2850	0.75	380	1.8	15	21.5	415	285	203	222	93	TOS40	
40WQ8-15-1.1(I)	40	8	15	2850	1.1	380	2.6	15	21.5	415	285	203	222	93	TOS40	
40WQ10-7-0.55(I)	40	10	7	2850	0.55	380	1.3	15	20.5	415	285	203	222	93	TOS40	
40WQ15-8-1.1(I)	40	15	8	2850	1.1	380	2.6	20	23.5	440	300	214	244	93	TOS40	
40WQ15-13-1.1(I)	40	15	13	2850	1.1	380	2.6	15	23.5	440	305	214	245	93	TOS40	
40WQ12-18-1.5(I)	40	12	18	2880	1.5	380	3.3	20	33	470	330	215	271	104.5	TOS40	
50WQ10-7-0.55(I)	50	10	7	2850	0.55	380	1.3	15	20.5	415	285	203	222	93	TOS50	
50WQ12-10-0.75(I)	50	12	10	2850	0.75	380	1.8	15	21.5	415	285	203	222	93	TOS50	
50WQ8-15-1.1(I)	50	8	15	2850	1.1	380	2.6	20	25.5	440	300	214	244	104	TOS50	
50WQ10-13-1.1(I)	50	10	13	2850	1.1	380	2.6	20	25.5	440	300	214	244	104	TOS50	
50WQ15-8-1.1(I)	50	15	8	2850	1.1	380	2.6	20	23.5	440	300	214	244	93	TOS50	
50WQ15-13-1.1(I)	50	15	13	2850	1.1	380	2.6	15	23.5	440	305	214	245	93	TOS50	
50WQ10-15-1.5(I)	50	10	15	2880	1.5	380	3.3	20	33	475	310	216	270	106.5	TOS50	
50WQ10-18-1.5(I)	50	10	18	2880	1.5	380	3.3	20	33	475	310	216	270	106.5	TOS50	
50WQ12-12-1.5(I)	50	12	12	2880	1.5	380	3.3	20	33	475	310	216	270	106.5	TOS50	
50WQ15-10-1.5(I)	50	15	10	2880	1.5	380	3.3	20	33	475	310	216	270	106.5	TOS50	
50WQ15-15-1.5(I)	50	15	15	2880	1.5	380	3.3	20	33	475	310	216	270	106.5	TOS50	
50WQ9-22-2.2(I)	50	9	22	2880	2.2	380	4.6	22	37.5	475	310	216	270	106.5	TOS50	
50WQ15-18-2.2(I)	50	15	18	2880	2.2	380	4.6	22	37.5	510	320	216	279	106.5	TOS50	
50WQ15-20-2.2(I)	50	15	20	2880	2.2	380	4.6	22	37.5	510	320	216	279	106.5	TOS50	
50WQ20-15-2.2(I)	50	20	15	2880	2.2	380	4.6	22	37.5	510	320	216	279	106.5	TOS50	
50WQ25-10-2.2(I)	50	25	10	2880	2.2	380	4.6	22	37.5	510	320	216	279	106.5	TOS50	
50WQ15-25-3(I)	50	15	25	2840	3	380	6.1	25.5	44	540	335	218	279	108	TOS50	
50WQ15-27-3(I)	50	15	27	2840	3	380	6.1	25.5	44	540	335	218	279	108	TOS50	
50WQ25-20-3(I)	50	25	20	2840	3	380	6.1	25.5	44	540	335	218	279	108	TOS50	
50WQ15-32-4(I)	50	15	32	2840	4	380	7.7	25.5	49.5	557	351	221	321	111	TOS50	
50WQ15-40-5.5(I)	50	15	40	2940	5.5	380	10.8	19.5	84	790	450	221	321	118.5	TOS50	
50WQ20-30-5.5(I)	50	20	30	2940	5.5	380	10.8	19.5	84	790	450	221	321	118.5	TOS50	
50WQ25-25-5.5(I)	50	25	25	2940	5.5	380	10.8	19.5	84	790	450	221	321	122	TOS50	
50WQ20-40-7.5(I)	50	20	40	2940	7.5	380	14.3	19.5	92	787	500	221	321	124	TOS50	
50WQ25-35-7.5(I)	50	25	35	2940	7.5	380	14.3	19.5	92	787	500	221	321	124	TOS50	
65WQ15-10-1.1(I)	65	15	10	2850	1.1	380	2.6	23	27	440	300	214	246	104	TOS65	
65WQ25-10-1.5(I)	65	25	10	2850	1.5	380	3.3	28	37	480	340	160	283	110	TOS65	
65WQ25-14-2.2(I)	65	25	14	2880	2.2	380	4.6	24	40.5	526	340	235	287	115.5	TOS65	
65WQ35-7-2.2(I)	65	35	7	2880	2.2	380	4.6	24	40.5	526	340	235	287	115.5	TOS65	
65WQ25-15-3(I)	65	25	15	2840	3	380	6.1	25.5	46	542	336	229	275	106.5	TOS65	
65WQ25-18-3(I)	65	25	18	2840	3	380	6.1	25.5	46	542	336	229	275	106.5	TOS65	
65WQ37-13-3(I)	65	37	13	2840	3	380	6.1	25.5	46	542	336	229	275	106.5	TOS65	
65WQ20-25-4(I)	65	20	25	2840	4	380	7.7	26	52	563	357	235	320	114.5	TOS65	
65WQ20-27-4(I)	65	20	27	2840	4	380	7.7	26	52	563	357	235	320	114.5	TOS65	

Technical data and dimensions(2 pole motor)

WQ(I) type submersible sewage pump

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	H3	Coupling	
65WQ25-31-5.5(I)	65	25	31	2940	5.5	380	10.8	17.5	86	793	450	236	314	129.5	TOS65	
65WQ30-25-5.5(I)	65	30	25	2940	5.5	380	10.8	17.5	86	793	450	236	314	129.5	TOS65	
65WQ20-60-11(I)	65	20	60	2930	11	380	21.7	22	95	877	600	284	362	191	TOS65	
65WQ40-50-11(I)	65	40	50	2930	11	380	21.7	22	95	877	600	284	362	191	TOS65	
65WQ30-60-15(I)	65	30	60	2930	15	380	29.1	22	100	877	600	284	362	191	TOS65	
65WQ50-55-15(I)	65	50	55	2930	15	380	29.1	22	100	877	600	284	362	191	TOS65	
80WQ40-8-2.2(I)	80	40	8	2880	2.2	380	4.6	26.5	42.5	545	370	256	296	120.5	TOS80	
80WQ40-10-2.2(I)	80	40	10	2880	2.2	380	4.6	26.5	42.5	545	370	256	296	120.5	TOS80	
80WQ45-9-2.2(I)	80	45	9	2880	2.2	380	4.6	26.5	42.5	545	370	256	296	120.5	TOS80	
80WQ35-13-3(I)	80	35	13	2840	3	380	6.1	34.5	47	565	360	256	300	120.5	TOS80	
80WQ40-15-4(I)	80	40	15	2840	4	380	7.7	26	51	563	357	250	318	114.5	TOS80	
80WQ40-22-5.5(I)	80	40	22	2940	5.5	380	10.8	17.5	85.5	793	450	251	310	129.5	TOS80	
80WQ40-30-7.5(I)	80	40	30	2940	7.5	380	14.3	17.5	92	790	500	251	310	130	TOS80	
80WQ50-25-7.5(I)	80	50	25	2940	7.5	380	14.3	17.5	92	790	500	251	310	130	TOS80	
80WQ48-38-11(I)	80	48	38	2930	11	380	21.7	22	134.5	924	610	317	410	181.5	TOS80	
100WQ50-7-2.2(I)	100	50	7	2880	2.2	380	4.6	45	43	522	400	170	323	120.5	TOS100	
100WQ60-9-3(I)	100	60	9	2840	3	380	6.1	40	50	564	420	190	311	120.5	TOS100	
100WQ50-12-4(I)	100	50	12	2840	4	380	7.7	34.5	53.5	607	400	292	337	142	TOS100	
100WQ65-15-5.5(I)	100	65	15	2940	5.5	380	10.8	35.5	89	835	500	292	337	145	TOS100	
100WQ65-18-5.5(I)	100	65	18	2940	5.5	380	10.8	35.5	89	835	500	292	337	145	TOS100	
100WQ70-14-5.5(I)	100	70	14	2940	5.5	380	10.8	35.5	89	835	500	292	337	145	TOS100	
100WQ45-22-7.5(I)	100	45	22	2940	7.5	380	14.3	32.5	98	835	500	297	365	147	TOS100	
100WQ65-20-7.5(I)	100	65	20	2940	7.5	380	14.3	32.5	98	835	500	297	365	147	TOS100	
100WQ80-15-7.5(I)	100	80	15	2940	7.5	380	14.3	32.5	98	835	500	297	365	147	TOS100	
100WQ100-15-7.5(I)	100	100	15	2940	7.5	380	14.3	32.5	98	835	500	297	365	147	TOS100	
100WQ80-25-11(I)	100	80	25	2930	11	380	21.7	25	128	906	620	344	388	194	TOS100	
100WQ100-30-15(I)	100	100	30	2930	15	380	29.1	27.5	136	906	620	344	388	194	TOS100	
150WQ100-7-5.5(I)	150	100	7	2940	5.5	380	10.8	31	102	850	510	365	398	157.5	TOS150	
150WQ100-10-5.5(I)	150	100	10	2940	5.5	380	10.8	31	102	850	510	365	398	157.5	TOS150	
150WQ100-17-7.5(I)	150	100	17	2940	7.5	380	14.3	31	109	850	510	365	398	157.5	TOS150	
150WQ150-10-7.5(I)	150	150	10	2940	7.5	380	14.3	30	109	909	670	425	398	214.5	TOS150	
150WQ120-25-15(I)	150	120	25	2930	15	380	29.1	40	145	955	680	425	398	214.5	TOS150	

Technical data and dimensions(4,6,8 pole motor)

WQ(I) type submersible sewage pump

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	H3	Coupling	
80WQ36-10-2.2-4(I)	80	36	10	1413	2.2	380	5	50	56	643	460	301	363	168.5	TOS80	
80WQ36-16-4-4(I)	80	36	16	1413	4	380	8.4	35	67	692	555	301	375	168.5	TOS80	
80WQ60-11-4-4(I)	80	60	11	1413	4	380	8.4	55	67	716	357	250	370	173.5	TOS80	
100WQ60-17-5-5-4(I)	100	60	17	1437	5.5	380	11.5	40	132	908	670	432	453	222	TOS100	
100WQ60-20-7-5-4(I)	100	60	20	1450	7.5	380	16.6	40	145	929	690	369	454	222	TOS100	
100WQ80-35-18.5-4(I)	100	80	35	1460	18.5	380	36.9	27.5	305	1208	800	439	603	289	TOS100F	
100WQ100-35-22-4(I)	100	100	35	1460	22	380	43.1	35	310	1208	800	439	603	289	TOS100F	
100WQ100-39-22-4(I)	100	100	39	1460	22	380	43.1	35	310	1208	800	439	603	289	TOS100F	
150WQ200-5-5-5-4(I)	150	200	5	1460	5.5	380	11.5	70	156	1064	825	545	548	335	TOS150	
150WQ240-7-7-5-4(I)	150	240	7	1450	7.5	380	16.6	70	156	1085	845	510	548	335	TOS150	
150WQ150-16-11-4(I)	150	150	16	1440	11	380	22.9	52	216	1097	750	535	575	325	TOS150	
150WQ150-20-15-4(I)	150	150	20	1440	15	380	30.6	57	237	1167	800	535	572	325	TOS150	
150WQ150-24-18.5-4(I)	150	150	24	1460	18.5	380	36.9	45	292	1080	1030	530	620	320	TOS150	
150WQ180-20-18.5-4(I)	150	180	20	1460	18.5	380	36.9	45	292	1080	1030	530	620	320	TOS150	
150WQ250-15-18.5-4(I)	150	250	15	1460	18.5	380	36.9	45	292	1080	1030	530	620	320	TOS150	
150WQ150-27-22-4(I)	150	150	27	1460	22	380	43.1	60	320	1281	880	530	575	320	TOS150	
150WQ180-25-22-4(I)	150	180	25	1460	22	380	43.1	65	320	1281	880	530	575	320	TOS150	
150WQ200-22-22-4(I)	150	200	22	1460	22	380	43.1	60	320	1281	880	530	575	320	TOS150	
150WQ270-16-22-4(I)	150	270	16	1460	22	380	43.1	65	320	1273	860	530	575	320.5	TOS150	
150WQ200-28-30-4(I)	150	200	28	1450	30	380	57.4	60	450	1513	1200	673	620	350	TO150	
150WQ150-35-37-4(I)	150	150	35	1470	37	380	71.9	65	485	1567	1200	671	765	461	TO150	
150WQ200-35-37-4(I)	150	200	35	1470	37	380	71.9	65	485	1567	1200	671	765	350	TO150	
150WQ200-45-55-4(I)	150	200	45	1480	55	380	106.0	50	840	1663	1300	596	811	386.5	TO150	
150WQ270-40-55-4(I)	150	270	40	1480	55	380	106.0	50	840	1663	1300	596	811	386.5	TO150	
200WQ270-10-11-4(I)	200	270	10	1440	11	380	22.9	50	230	1113	760	530	568	335	TO200	
200WQ270-14-15-4(I)	200	270	14	1440	15	380	30.6	35	255	1184	810	535	546	340	TO200	
200WQ250-15-18.5-4(I)	200	250	15	1460	18.5	380	36.9	35	310	1281	880	530	575	335.5	TO200	
200WQ300-12-18.5-4(I)	200	300	12	1460	18.5	380	36.9	63	310	1281	880	530	575	335.5	TO200	
200WQ270-16-22-4(I)	200	270	16	1460	22	380	43.1	64	323	1281	880	530	575	335.5	TO200	
200WQ300-15-22-4(I)	200	300	15	1450	22	380	43.1	60	323	1281	880	530	575	335.5	TO200	
200WQ400-10-22-4(I)	200	400	10	1450	22	380	43.1	65	323	1281	880	530	575	335.5	TO200	
200WQ250-22-30-4(I)	200	250	22	1450	30	380	57.4	60	565	1513	1200	673	620	463	TO200	
200WQ360-17-30-4(I)	200	360	17	1450	30	380	57.4	65	565	1513	1200	673	620	463	TO200	
200WQ400-15-30-4(I)	200	400	15	1450	30	380	57.4	60	565	1513	1200	673	620	463	TO200	
200WQ400-22-37-4(I)	200	400	22	1470	37	380	71.9	65	580	1590	1200	673	813	463	TO200	
200WQ350-25-37-4(I)	200	350	25	1470	37	380	71.9	60	580	1590	1200	673	813	463	TO200	
200WQ300-26-37-4(I)	200	300	26	1470	37	380	71.9	50	580	1590	1200	673	813	463	TO200	
200WQ270-28-37-4(I)	200	270	28	1470	37	380	71.9	50	580	1590	1200	673	813	463	TO200	
200WQ400-25-45-4(I)	200	400	25	1470	45	380	87.0	40	650	1663	1300	650	811	432.5	TO200	
200WQ250-40-55-4(I)	200	250	40	1480	55	380	106.0	40	850	1663	1300	650	811	386	TO200	
200WQ400-30-55-4(I)	200	400	30	1480	55	380	106.0	40	850	1663	1300	650	811	386	TO200	

Technical data and dimensions(4,6,8 pole motor)

WQ(I) type submersible sewage pump

Model	Diameter	Q	H	Speed	Power	Rated voltage	Rated current	Max. dia. of casing so d	Weight	Dimensions(mm)					
	(mm)	(m³/h)	(m)	(rpm)	(kw)	(V)	(A)	(mm)	(kg)	H	H1	H2	F	H3	Coupling
200WQ350-40-75-4(I)	200	350	40	1480	75	380	142.0	40	919	1663	1300	650	811	386	TO200
200WQWQ500-30-75-4(I)	200	500	30	1480	75	380	142.0	40	865	1663	1300	650	811	386	TO200
250WQ400-15-30-4(I)	250	400	15	1480	30	380	57.4	45	485	1517	1250	750	815	490	TO250
250WQ600-9-30-4(I)	250	600	9	1480	30	380	57.4	45	485	1517	1250	750	815	490	TO250
250WQ360-20-30-4(I)	250	360	20	1480	30	380	57.4	45	485	1517	1250	750	815	490	TO250
250WQ420-22-37-4(I)	250	420	22	1470	37	380	71.9	62	550	1594	1200	750	820	490	TO250
250WQ600-12-37-4(I)	250	600	12	1470	37	380	71.9	62	550	1594	1200	750	820	490	TO250
250WQ360-28-45-4(I)	250	360	28	1470	45	380	87.0	45	685	1556	1200	695	829	432.5	TO250
250WQ600-20-55-4(I)	250	600	20	1450	55	380	106	60	865	1663	1300	740	900	430	TO250
250WQ600-28-75-4(I)	250	600	28	1480	75	380	142.0	60	930	1663	1300	740	895	430	TO250
300WQ800-8-37-4(I)	300	800	8	1450	37	380	75.0	60	620	1400	1150	779	800	514	TO300
300WQ500-15-37-4(I)	300	500	15	1450	37	380	75.0	60	620	1400	1150	779	800	514	TO300
300WQ600-18-45-4(I)	300	600	18	1470	45	380	87.0	60	690	1605	1250	825	881	514	TO300
300WQ800-12-45-4(I)	300	800	12	1470	45	380	87.0	60	690	1605	1250	825	881	514	TO300
300WQ600-20-55-4(I)	300	600	20	1450	55	380	106.0	55	865	1680	1120	775	870	466.5	TO300
300WQ800-20-75-4(I)	300	800	20	1450	75	380	142.0	60	956	1680	1120	775	870	466.5	TO300
250WQ600-10-22-6(I)	250	600	10	983	22	380	45	85	649	1654	1300	744	830	484	TO250
300WQ700-8-22-6(I)	300	700	8	983	22	380	45	66	658	1663	1300	802	830	492	TO300
300WQ800-9-30-6(I)	300	800	9	983	30	380	60	66	700	1663	1300	802	830	492	TO300
300WQ800-11-37-6(I)	300	800	11	983	37	380	74	50	729	1663	1300	802	830	492	TO300
300WQ900-13-45-6(I)	300	900	13	983	45	380	84	90	1039	1772	1470	772	878	462	TO300
300WQ900-16-55-6(I)	300	900	16	983	55	380	109	100	1093	1772	1470	772	878	462	TO300
350WQ960-5-5-22-8(I)	350	960	5.5	734	22	380	50	105	750	1703	1300	891	880	525	TO350*
350WQ960-7-30-6(I)	350	960	7	983	30	380	60	100	741	1703	1300	891	880	525	TO350*
350WQ1100-8-37-6(I)	350	1100	8	983	37	380	74	115	769	1703	1300	891	880	525	TO350*
400WQ1200-16-75-6(I)	400	1200	16	983	75	380	138	100	1206	1817	1500	983	888	507	TO400*
400WQ1600-6-5-45-6(I)	400	1600	6.5	983	45	380	84	125	1043	1793	1490	938	887	472	TO400*
400WQ1600-9-55-6(I)	400	1600	9	983	55	380	109	105	1072	1793	1490	938	887	472	TO400*
500WQ2000-9-75-6(I)	500	2000	9	983	75	380	138	120	1522	1926	1550	1153	1372	635	TO500*

Please contact sales for overall dimension drawing.

* means that light coupling device can be adopted.

Technical data and dimensions(2-pole single phase motor)

WQ(I) type submersible sewage pump

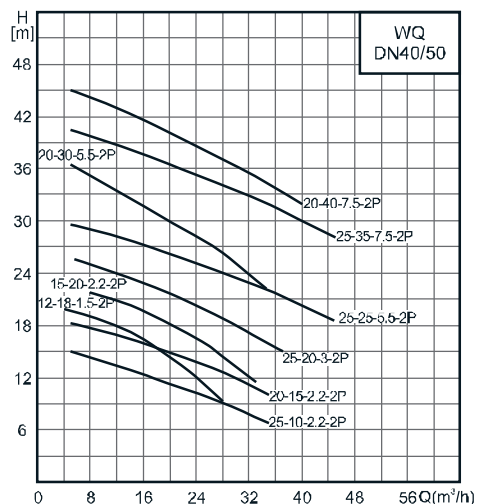
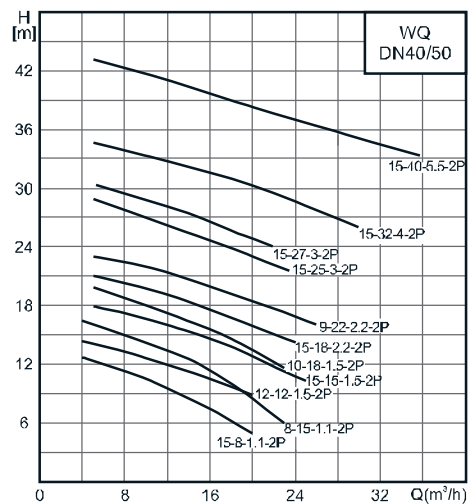
Model	Diameter	Q	H	Speed	Power	Rated voltage	Rated current	Max. dia. of casing so d	Weight	Dimensions(mm)					
	(mm)	(m³/h)	(m)	(rpm)	(kw)	(V)	(A)	(mm)	(kg)	H	H1	H2	F	H3	Coupling
40WQD12-10-0.75(I)	40	12	10	2875	0.75	220	4.4	15	23.5	486	320	183	238	93	TOS40
40WQD12-18-1.5(I)	40	12	18	2875	1.5	220	8.7	20	41	598	380	195	275	105	TOS40
50WQD12-10-0.75	50	12	10	2875	0.75	220	4.4	15	23.5	486	320	183	238	93	TOS50
50WQD10-15-1.5(I)	50	10	15	2875	1.5	220	8.7	20	41	602	385	217	278	107	TOS50
50WQD10-18-1.5(I)	50	10	18	2875	1.5	220	8.7	20	41	602	385	217	278	107	TOS50
50WQD12-12-1.5(I)	50	12	12	2875	1.5	220	8.7	20	41	602	385	217	278	107	TOS50
50WQD15-10-1.5(I)	50	15	10	2875	1.5	220	8.7	20	41	602	385	217	278	107	TOS50
50WQD15-15-1.5(I)	50	15	15	2875	1.5	220	8.7	20	41	602	385	217	278	107	TOS50
50WQD9-22-2.2(I)	50	9	22	2871	2.2	220	12.5	22	44.5	614	420	217	289	107	TOS50
50WQD15-18-2.2(I)	50	15	18	2871	2.2	220	12.5	22	44.5	614	420	217	289	107	TOS50
50WQD15-20-2.2(I)	50	15	20	2871	2.2	220	12.5	22	44.5	614	420	217	289	107	TOS50
50WQD20-15-2.2(I)	50	20	15	2871	2.2	220	12.5	22	44.5	614	420	217	289	107	TOS50
50WQD25-10-2.2(I)	50	25	10	2871	2.2	220	12.5	22	44.5	614	420	217	289	107	TOS50
65WQD25-10-1.5(I)	65	25	10	2875	1.5	220	8.7	28	37	607	390	230	286	110	TOS65
65WQD25-14-2.2(I)	65	25	14	2871	2.2	220	12.5	28	47	630	436	236	290	116	TOS65
65WQD35-7-2.2(I)	65	35	7	2871	2.2	220	12.5	28	47	630	436	236	290	116	TOS65
80WQD40-8-2.2(I)	80	40	8	2871	2.2	220	12.5	26.5	42.5	648	454	255	296	121	TOS80
80WQD40-10-2.2(I)	80	40	10	2871	2.2	220	12.5	26.5	42.5	648	454	255	296	121	TOS80
80QD45-9-2.2(I)	80	45	9	2871	2.2	220	12.5	26.5	42.5	648	454	255	296	121	TOS80
100WQD50-7-2.2(I)	100	50	7	2871	2.2	220	12.5	45	43	648	454	271	323	121	TOS100

Technical data and dimensions(4,6-pole 90-150kW motor-pole single phase motor)

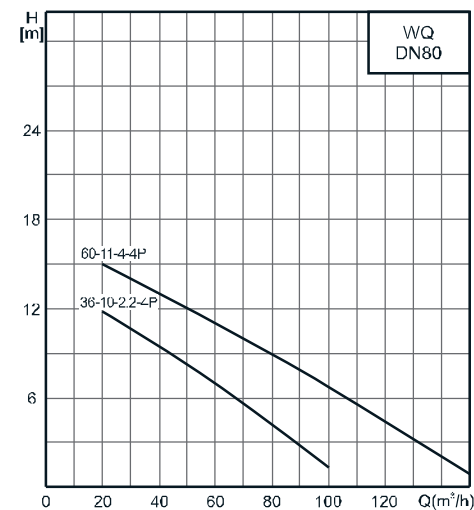
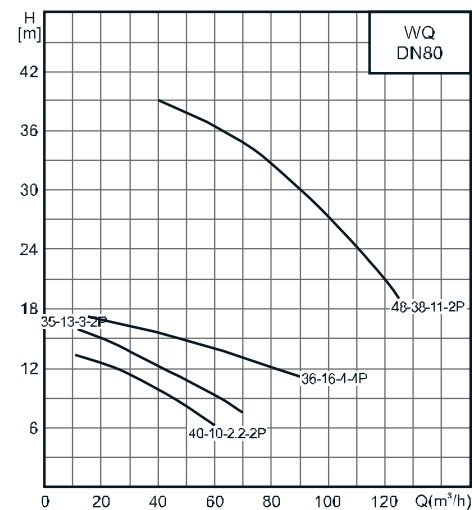
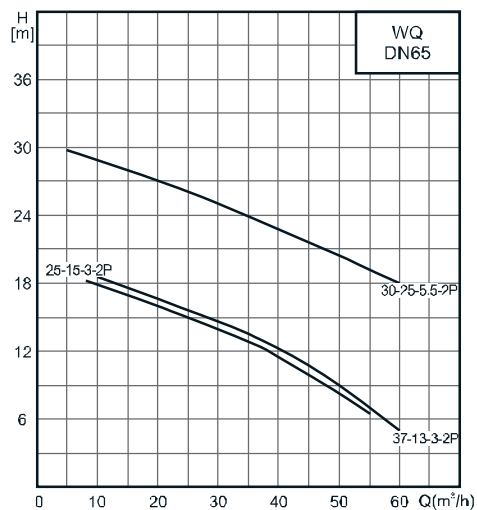
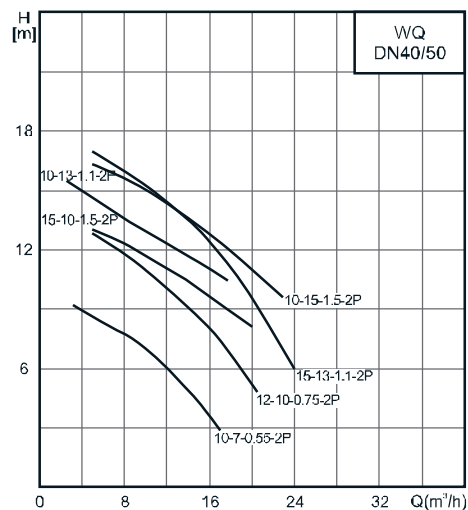
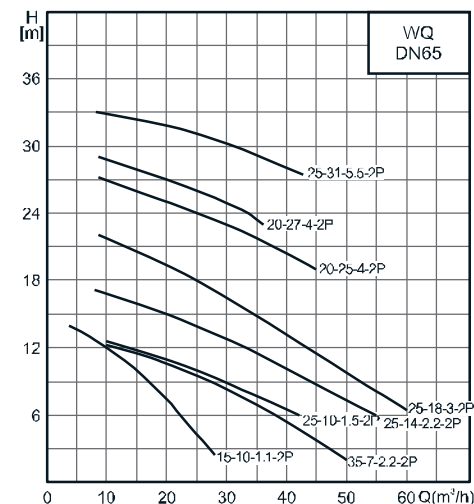
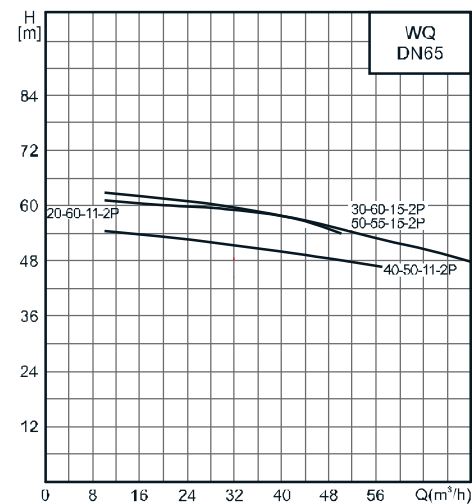
WQ(I) type submersible sewage pump

Model	Diameter	Q	H	Speed	Power	Rated voltage	Rated current	Max. dia. of casing so d	Weight	Dimensions(mm)					
	(mm)	(m³/h)	(m)	(rpm)	(kw)	(V)	(A)	(mm)	(kg)	H	H1	H2	F	H3	Coupling
350WQ900-26-90-4(I)	350	900	26	1472	90	380	179	65	2300	2560	1984	907	1111	585	TO350
350WQ900-29-110-4(I)	350	900	29	1473	110	380	210	65	2430	2560	1984	907	1111	585	TO350
350WQ1200-29-132-4(I)	350	1200	29	1471	132	380	252	68.9	2500	2570	1994	907	1111	585	TO350
350WQ1200-33-150-4(I)	350	1200	33	1490	150	380	284	68.9	2665	2570	1994	907	1111	585	TO350
400WQ1100-21-90-6(I)	400	1100	21	987	90	380	187	82.6	2830	2858	2070	1092	1138	676	TO400
400WQ1100-24-110-6(I)	400	1100	24	984	110	380	211	82.6	2845	2858	2070	1092	1138	676	TO400
400WQ1600-22-132-6(I)	400	1600	22	995	132	380	252	87.8	2990	2863	2100	1092	1138	676	TO400
400WQ1600-26-150-6(I)	400	1600	26	994	150	380	286	87.8	3120	2863	2100	1092	1138	676	TO400
500WQ1600-15-90-6(I)	500	1600	15	987	90	380	187	131	2795	2923	2140	1256	1372	738	TO500
500WQ1600-18-110-6(I)	500	1600	18	984	110	380	211	131	2780	2923	2140	1256	1372	738	TO500
500WQ2000-18-132-6(I)	500	2000	18	995	132	380	252	141.4	3050	2962	2150	1293	1471	776	TO500
500WQ2000-20-150-6(I)	500	2000	20	994	150	380	286	141.4	3185	2962	2150	1293	1471	776	TO500

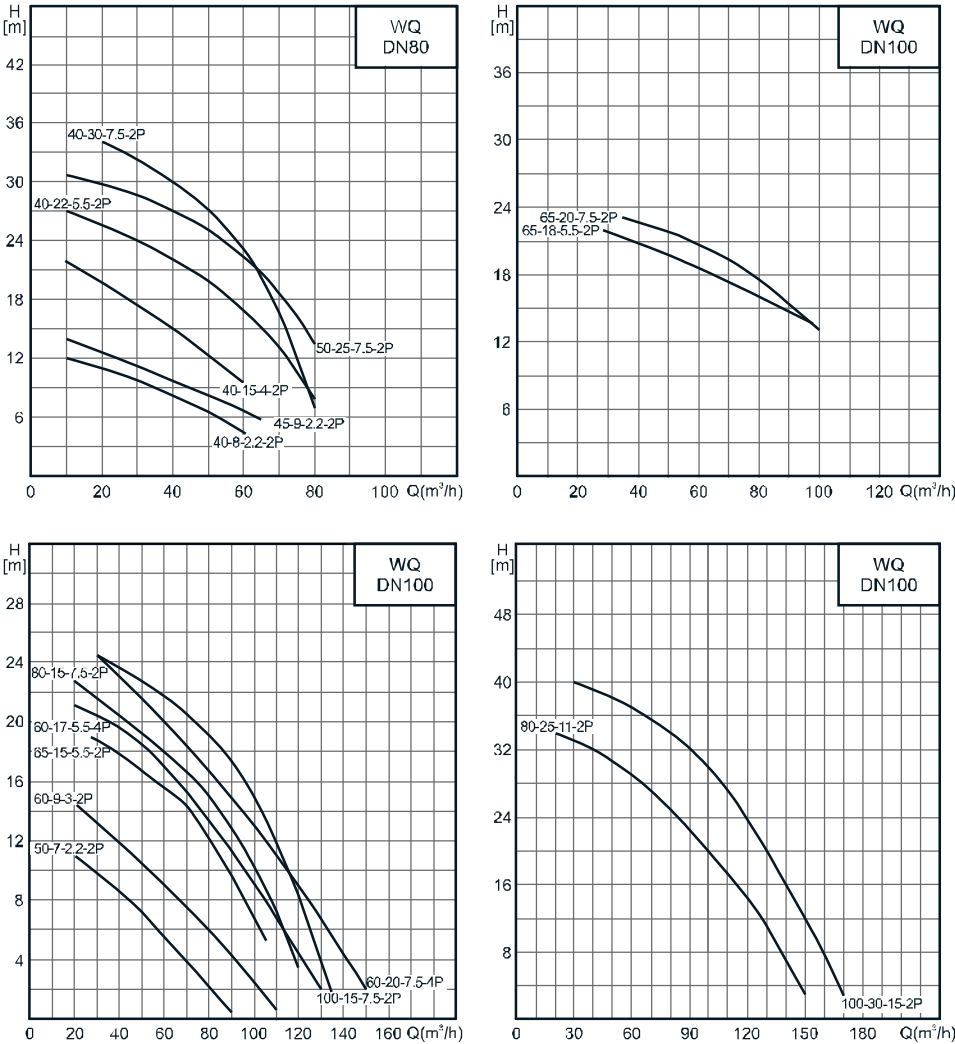
Performance curve



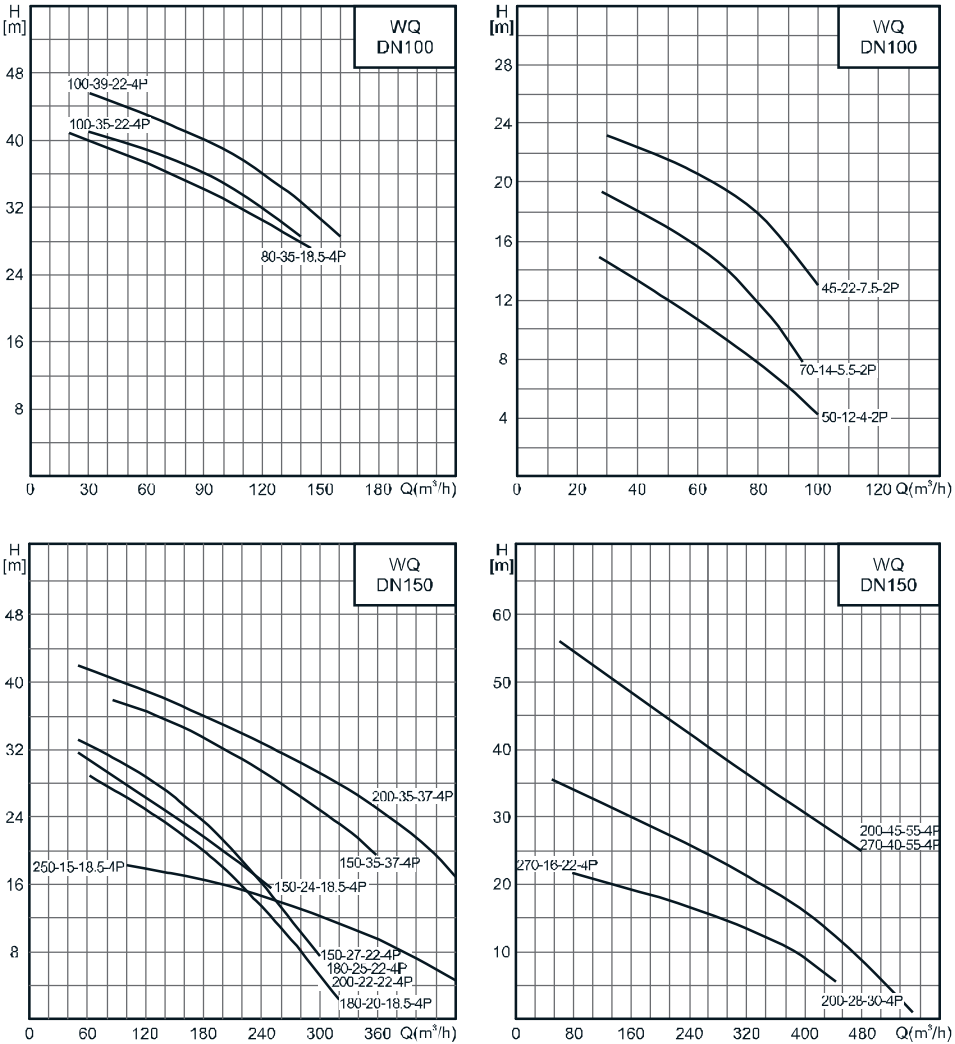
Performance curve



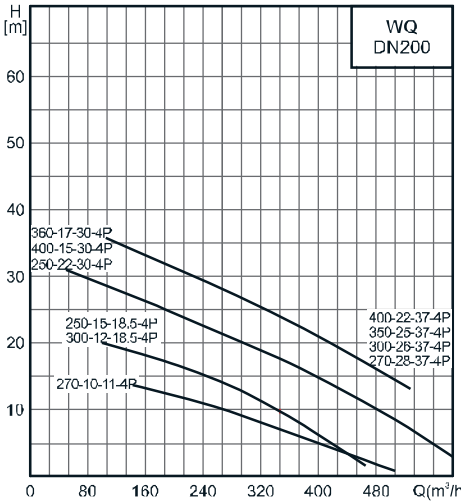
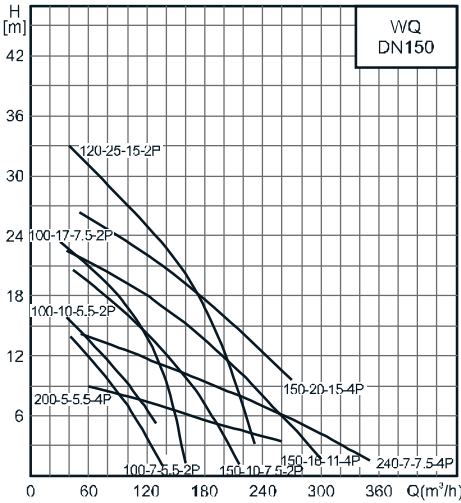
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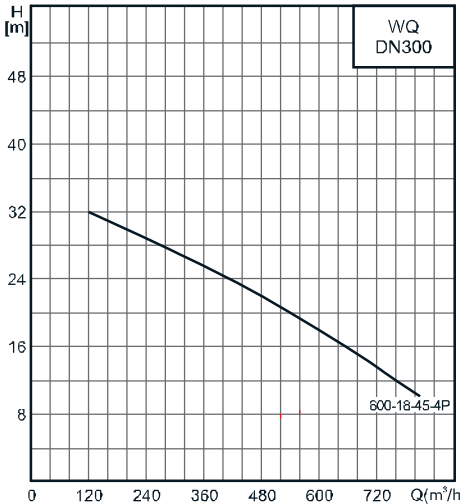
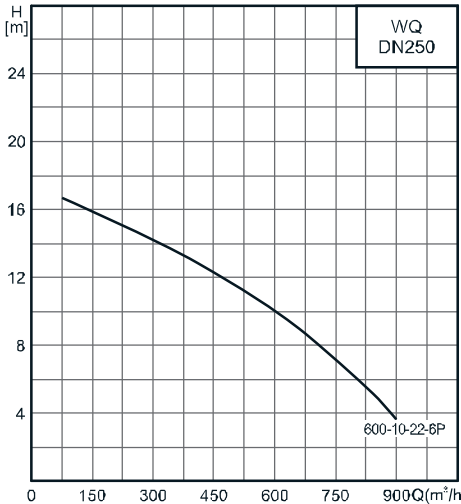
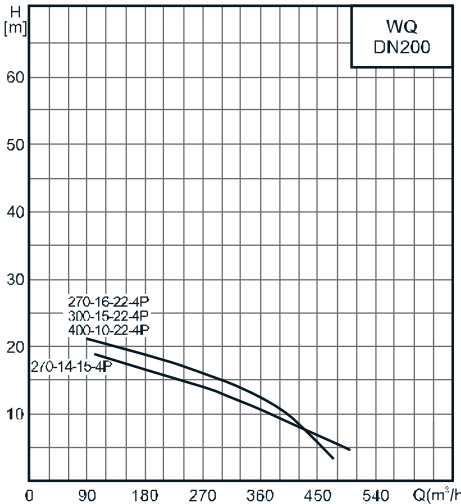
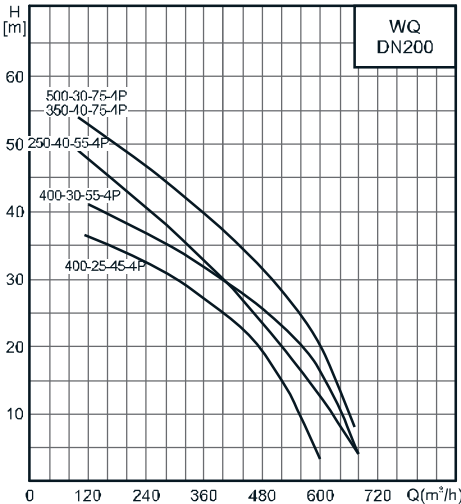
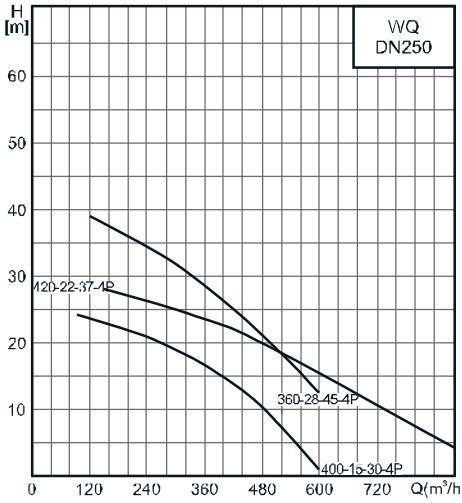
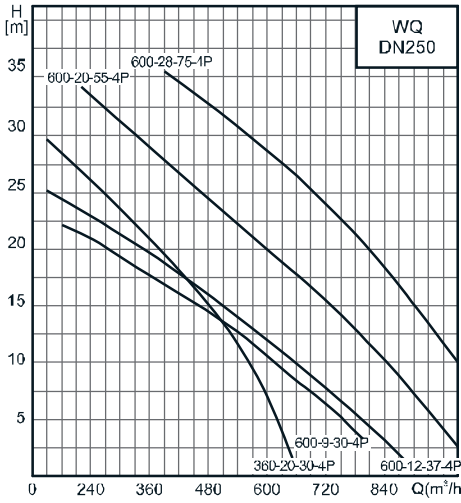
Performance curve



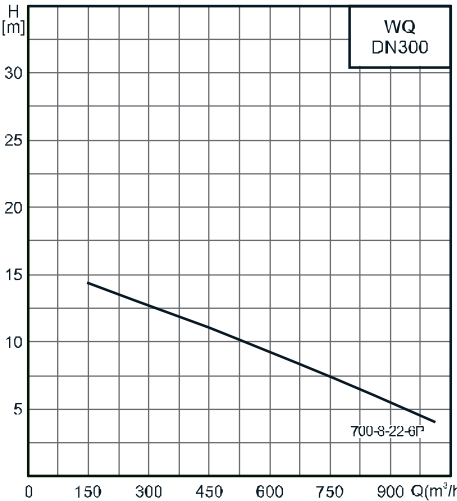
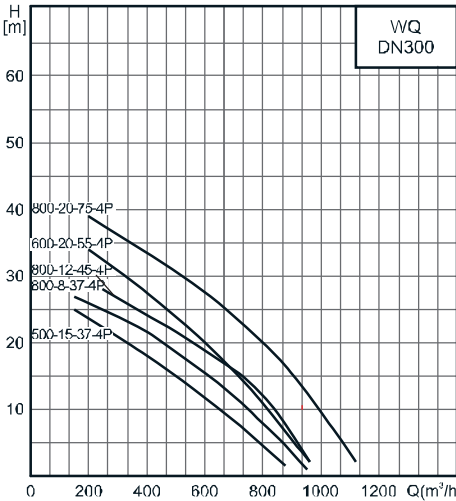
Performance curve



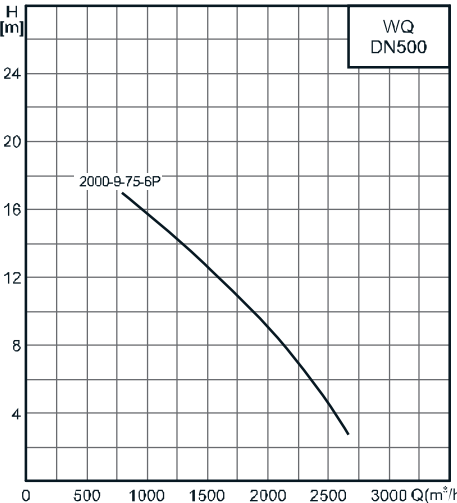
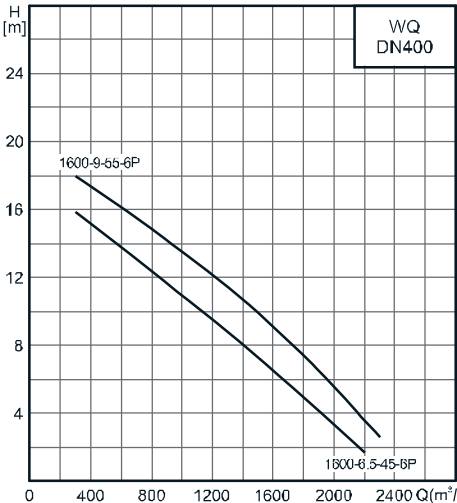
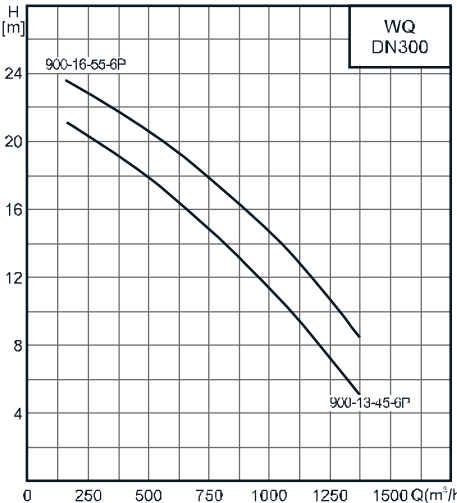
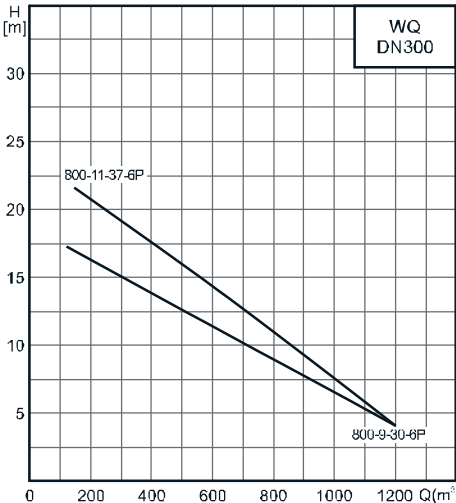
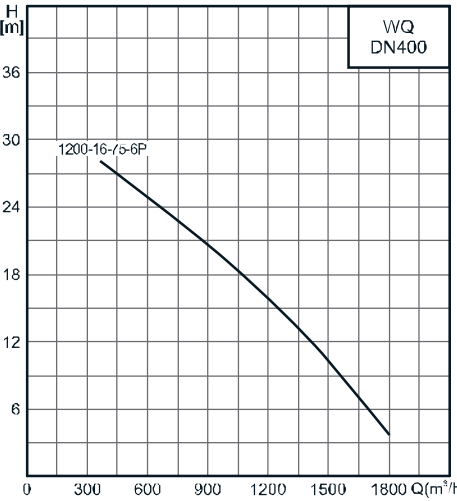
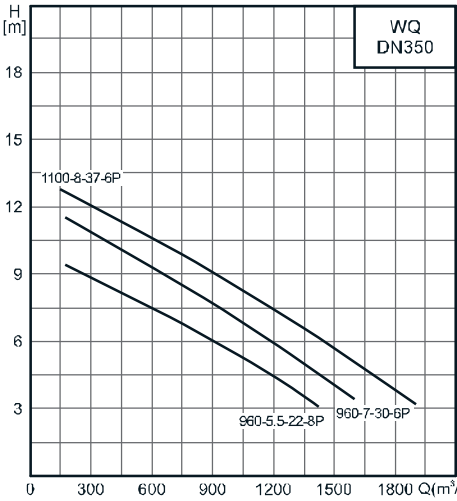
Performance curve



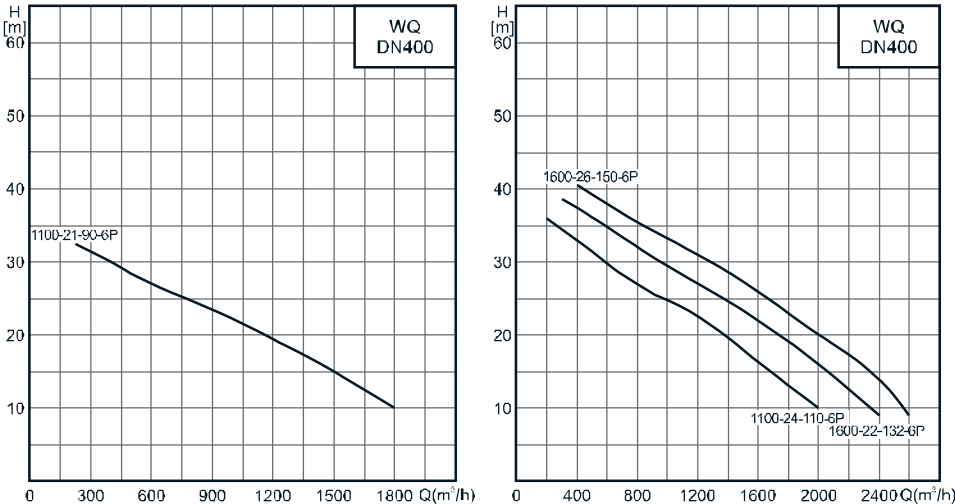
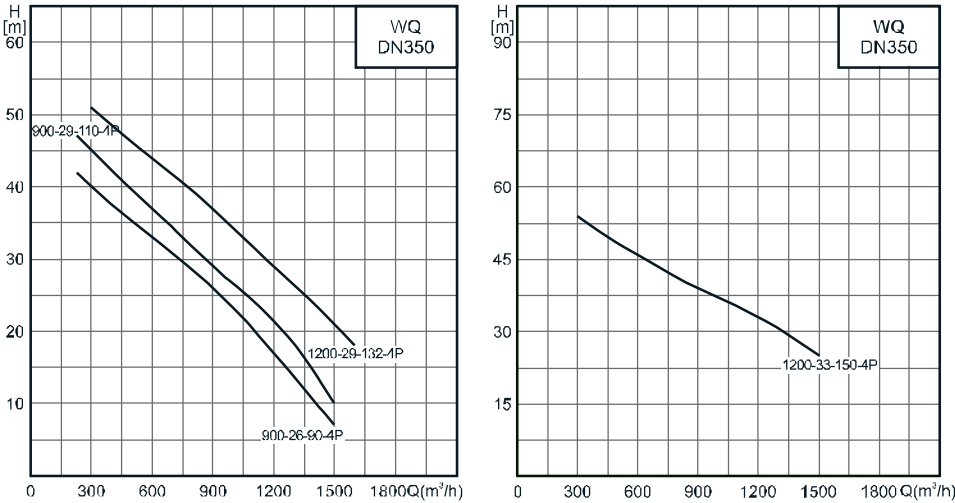
Performance curve



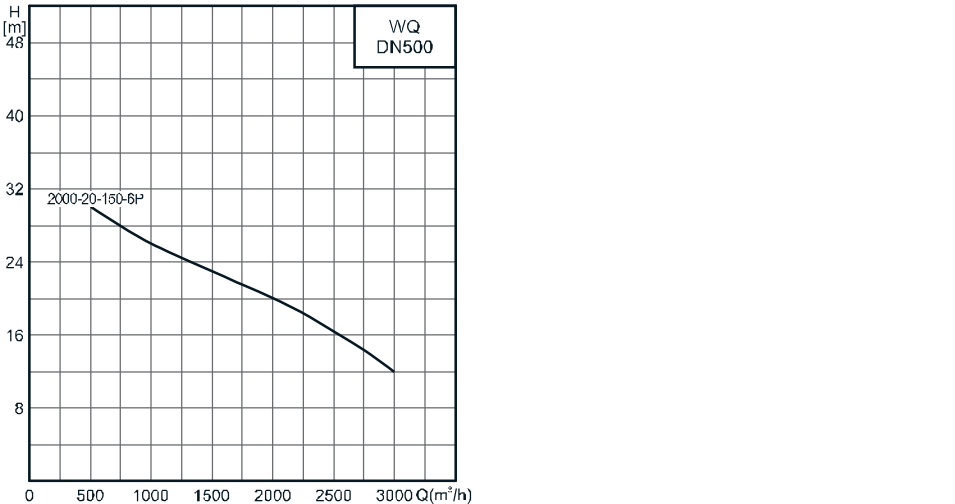
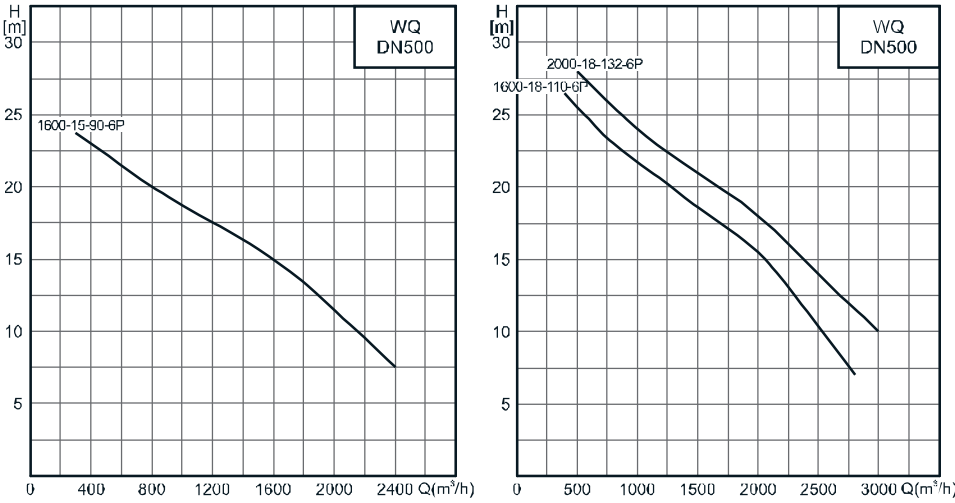
Performance curve



Performance curve

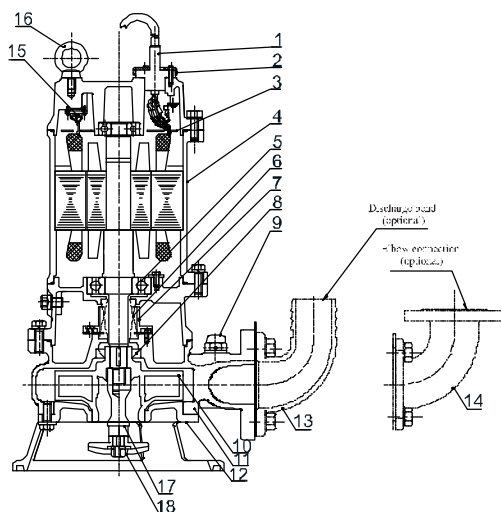


Performance curve



WQ-JY(I) type submersible sewage pump

WQ-JY(I) type



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 dimensions

WQ-JY(I) type submersible sewage pump

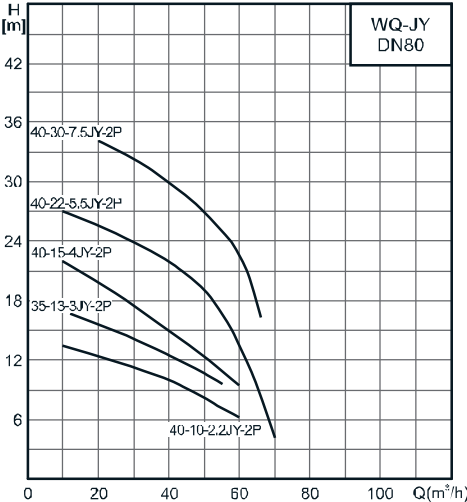
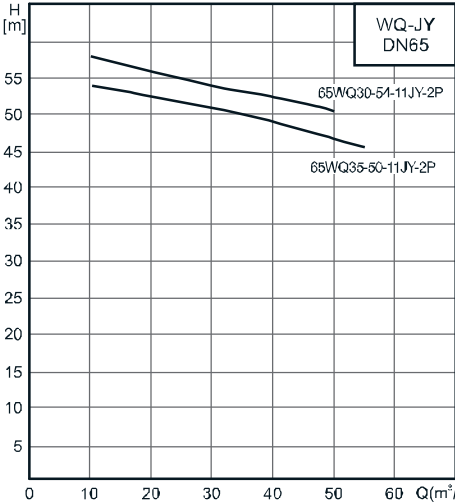
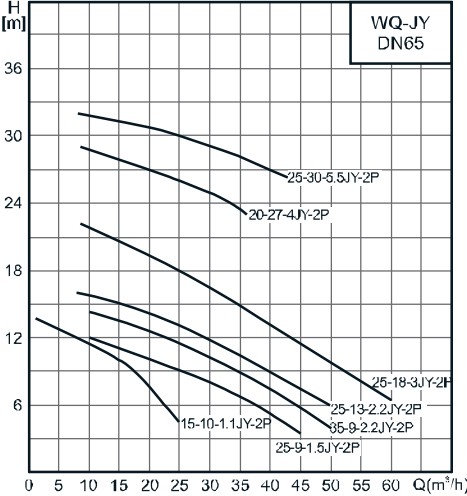
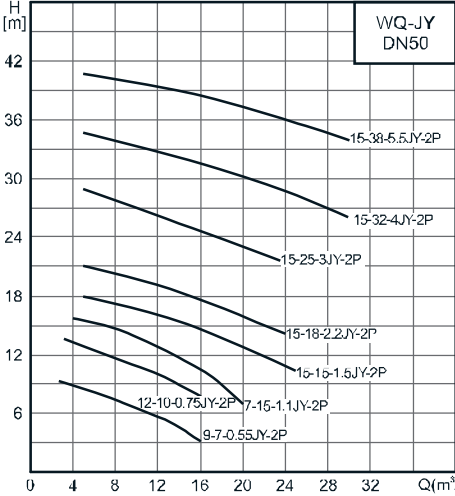
Model	Diameter	Q	H	Speed	Power	Rated voltage	Rated current	Max. dia. of passing solid	Weight	Dimensions (mm)					
	(mm)	(m³/h)	(m)	(rpm)	(kW)	(V)	(A)	(mm)	(kg)	H	H1	H2	F	H3	Coupling
50WQ9-7-0.55JY(I)	50	9	7	2850	0.55	380	1.3	15	20.5	415	285	203	222	93	TOS50
50WQ12-10-0.75JY(I)	50	12	10	2850	0.75	380	1.8	15	21.5	415	285	203	222	93	TOS50
50WQ7-15-1.1JY(I)	50	7	15	2850	1.1	380	2.6	20	25.5	440	300	214	244	104	TOS50
50WQ15-15-1.5JY(I)	50	15	15	2880	1.5	380	3.3	20	33	475	310	216	270	106.5	TOS50
50WQ15-18-2.2JY(I)	50	15	18	2880	2.2	380	4.6	22	37.5	510	320	216	279	106.5	TOS50
50WQ15-25-3JY(I)	50	15	25	2840	3	380	6.1	25.5	44	540	335	218	279	108	TOS50
50WQ15-32-4JY(I)	50	15	32	2840	4	380	7.7	25.5	49.5	557	351	221	321	111	TOS50
50WQ15-38-5.5JY(I)	50	15	38	2940	5.5	380	10.8	19.5	84	790	450	221	321	118.5	TOS50
65WQ15-10-1.1JY(I)	65	15	10	2850	1.1	380	2.6	23	27	440	300	214	246	104	TOS65
65WQ25-9-1.5JY(I)	65	25	9	2850	1.5	380	3.3	28	30	480	340	160	283	110	TOS65
65WQ25-13-2.2JY(I)	65	25	13	2880	2.2	380	4.6	24	40.5	526	340	235	287	115.5	TOS65
65WQ35-9-2.2JY(I)	65	35	9	2880	2.2	380	4.6	24	40.5	526	340	235	287	115.5	TOS65
65WQ25-18-3JY(I)	65	25	18	2840	3	380	6.1	25.5	46	542	336	229	275	106.5	TOS65
65WQ20-27-4JY(I)	65	20	27	2840	4	380	7.7	26	52	563	357	235	320	114.5	TOS65
65WQ25-30-5.5JY(I)	65	25	30	2940	5.5	380	10.8	17.5	86	793	450	236	314	129.5	TOS65
80WQ40-10-2.2JY(I)	80	40	10	2880	2.2	380	4.6	26.5	42.5	545	370	256	296	120.5	TOS80
80WQ35-13-3JY(I)	80	35	13	2840	3	380	6.1	34.5	47	565	360	256	300	120.5	TOS80
80WQ40-15-4JY(I)	80	40	15	2840	4	380	7.7	26	51	563	357	250	318	114.5	TOS80
80WQ40-22-5.5JY(I)	80	40	22	2940	5.5	380	10.8	17.5	85.5	793	450	251	310	129.5	TOS80
80WQ40-30-7.5JY(I)	80	40	30	2940	7.5	380	14.3	17.5	92	790	500	251	310	130	TOS80
100WQ50-7-2.2JY(I)	100	50	7	2880	2.2	380	4.6	45	48	522	400	170	323	120.5	TOS100
100WQ50-10-3JY(I)	100	50	10	2840	3	380	6.1	10	50	564	420	190	311	120.5	TOS100
100WQ50-12-4JY(I)	100	50	12	2840	4	380	7.7	34.5	53.5	607	400	292	337	142	TOS100
100WQ75-12-4JY(I)	100	75	12	2840	4	380	7.7	34.5	53.5	607	400	292	337	142	TOS100
100WQ65-15-5.5JY(I)	100	65	15	2940	5.5	380	10.8	35.5	89	835	500	292	337	145	TOS100
100WQ70-18-7.5JY(I)	100	70	18	2940	7.5	380	14.3	32.5	98	835	500	297	365	147	TOS100
100WQ100-15-7.5JY(I)	100	100	15	2940	7.5	380	14.3	32.5	98	835	500	297	365	147	TOS100
150WQ100-10-7.5JY(I)	150	100	10	2940	7.5	380	14.3	31	109	850	510	365	398	157.5	TOS150
150WQ140-10-7.5JY(I)	150	140	10	2940	7.5	380	14.3	30	105	909	670	425	398	214.5	TOS150
65WQ35-50-11JY(I)	65	35	50	2930	11	380	21.7	22	98	916	630	311	363	191	TOS65
65WQ30-54-11JY(I)	65	30	54	2930	11	380	21.7	22	98	916	630	311	362	191	TOS65
80WQ50-29-11JY(I)	80	50	29	2930	11	380	21.7	22	138	924	670	320	410	181.5	TOS80
100WQ100-22-11JY(I)	100	100	22	2930	11	380	21.7	25	131	908	650	344	388	194	TOS100
100WQ100-30-15JY(I)	100	100	30	2930	15	380	29.1	27.5	136	908	650	344	388	214.5	TOS100
100WQ100-35-22JY-4(I)	100	100	35	1460	22	380	43.1	35	313	1232	950	439	605	320.5	TOS100F
150WQ150-13-11JY-4(I)	150	150	13	1440	11	380	22.9	52	219	1097	813	535	575	325	TOS150
150WQ140-24-15JY(I)	150	140	24	2930	15	380	29.1	40	148	955	690	425	398	325	TOS150
150WQ150-19-15JY-4(I)	150	150	19	1440	15	380	30.6	57	240	1167	880	535	573	325	TOS150
150WQ200-17-18.5JY-4(I)	150	200	17	1460	18.5	380	36.9	45	295	1270	980	500	575	289	TOS150
150WQ250-15-18.5JY-4(I)	150	250	15	1460	18.5	380	36.9	45	313	1273	980	530	575	289	TOS150

Technical data and dimensions

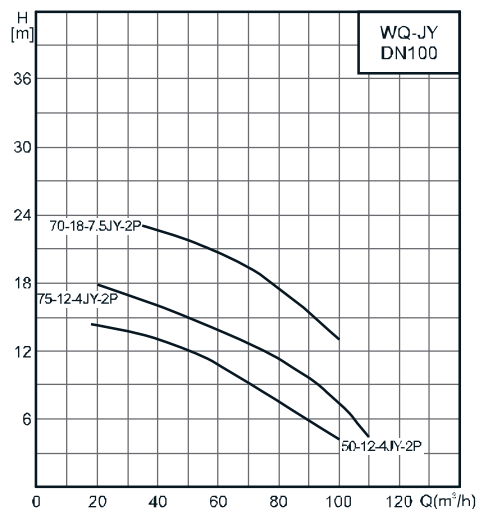
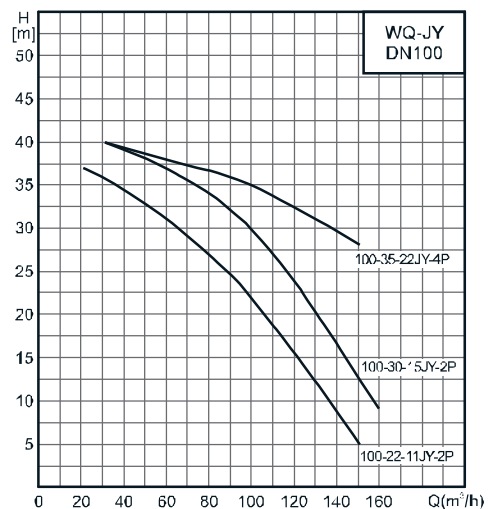
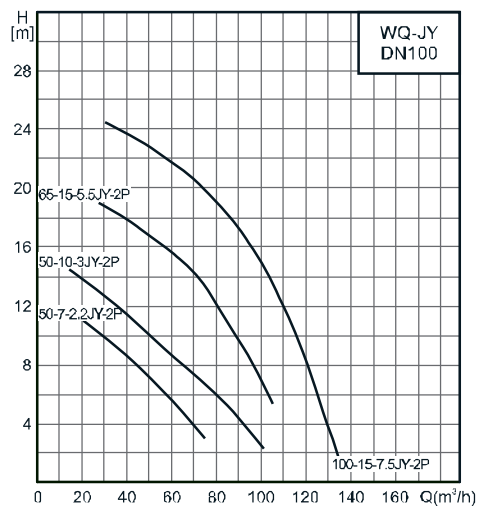
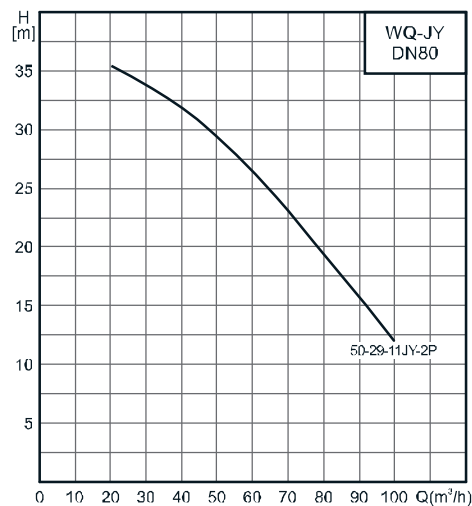
WQ~JY(I)type submersible sewage pump

Model	Discharge	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	H3	Coupling
150WQ150-25-22JY-4(I)	150	150	25	1460	22	380	43.1	65	323	1273	980	500	575	320	TOS150
150WQ300-16-22JY-4(I)	150	300	16	1460	22	380	43.1	65	326	1273	980	530	575	320.5	TOS150
200WQ210-11-11JY-4(I)	200	210	11	1440	11	380	22.9	50	258	1135	810	545	569	335	TO200
200WQ300-11-15JY-4(I)	200	300	11	1440	15	380	30.6	35	258	1184	880	550	547	340	TO200
200WQ300-13-18.5JY-4(I)	200	300	11	1460	18.5	380	36.9	63	313	1273	980	532	575	320.5	TO200

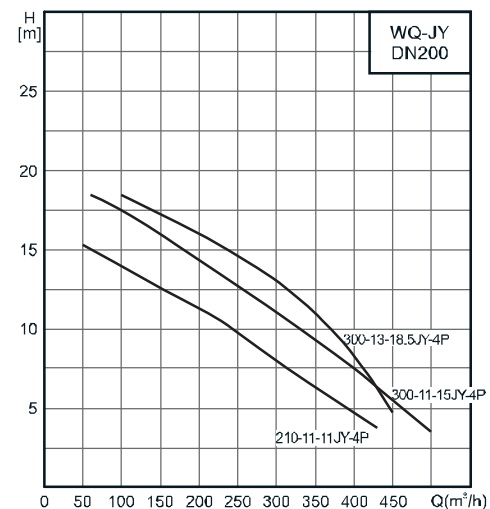
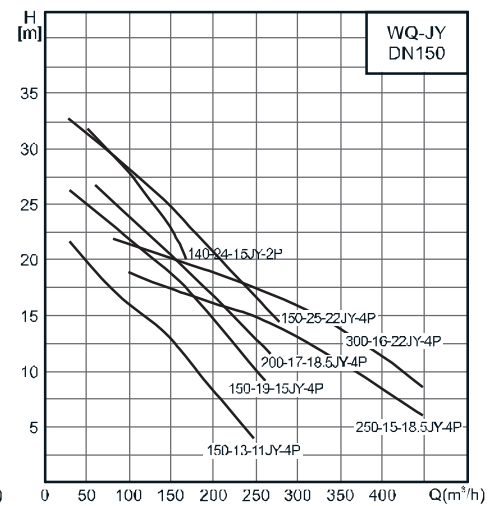
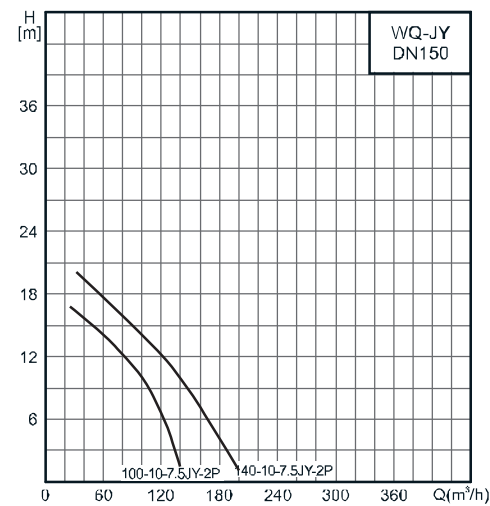
Performance curve



Performance curve

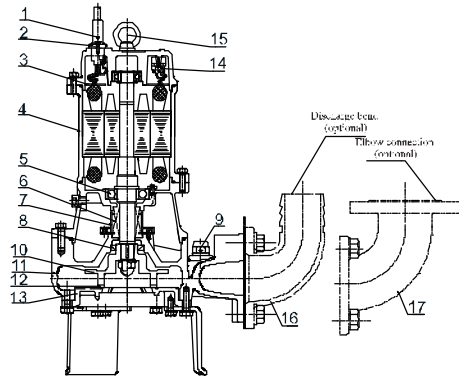


Performance curve



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

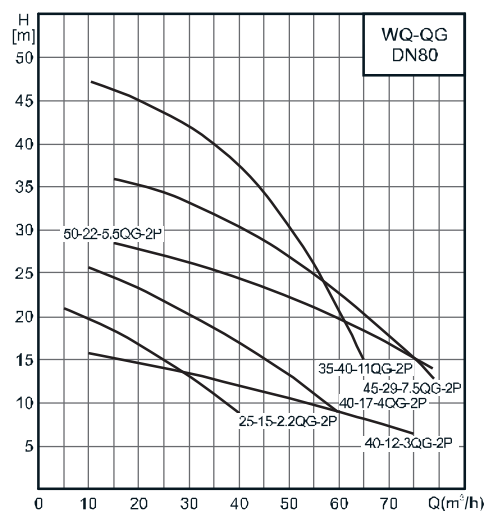
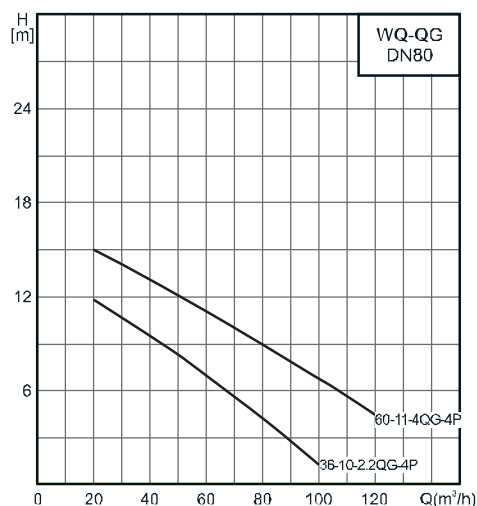
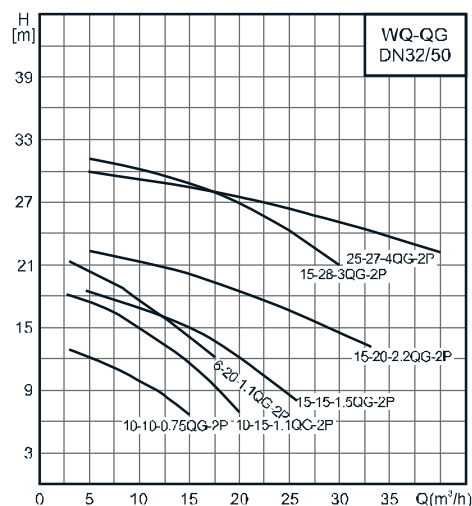
Technical data and dimensions

WQ-QG(I) type submersible sewage pump

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	H3	Coupling
32WQ6-20-1.1QG(I)	32	6	20	2850	1.1	380	2.6	12	23	398	270	157	237	82	/
50WQ10-10-0.75QG(I)	50	10	10	2850	0.75	380	1.8	11	21.5	415	285	203	222	93	TOS50
50WQ10-15-1.1QG(I)	50	10	15	2850	1.1	380	2.6	13	22	415	280	201	238	93	TOS50
50WQ15-15-1.5QG(I)	50	15	15	2880	1.5	380	3.3	23	33	464	320	197	271	96.5	TOS50
50WQ15-20-2.2QG(I)	50	15	20	2880	2.2	380	4.6	12	37.5	510	320	216	279	107	TOS50
50WQ15-28-3QG(I)	50	15	28	2840	3	380	6.1	20	45	540	370	119	294	108.5	TOS50
50WQ25-27-4QG(I)	50	25	27	2840	4	380	7.7	22	50	556	420	221	337	111.5	TOS50
80WQ25-15-2.2QG(I)	80	25	15	2880	2.2	380	4.6	22	45	576	440	291	313	156.5	TOS80
80WQ36-10-2.2QG-4(I)	80	36	10	1413	2.2	380	5.5	47	56	643	500	308	363	168.5	TOS80
80WQ40-12-3QG(I)	80	40	12	2840	3	380	6.1	22	45	586	450	276	300	141	TOS80
80WQ40-17-4QG(I)	80	40	17	2840	4	380	7.7	22	48	609	465	292	313	156.5	TOS80
80WQ60-11-4QG-4(I)	80	60	11	1413	4	380	8.4	65	70	717	570	315	369	173.5	TOS80
80WQ50-22-5.5QG(I)	80	50	22	2940	5.5	380	10.8	23	85	879	570	320	410	185	TOS80
80WQ45-29-7.5QG(I)	80	45	29	2940	7.5	380	14.3	25	99	879	600	320	410	185	TOS80
80WQ35-40-11QG(I)	80	35	40	2930	11	380	21.7	25	130	927	660	320	410	185	TOS80

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

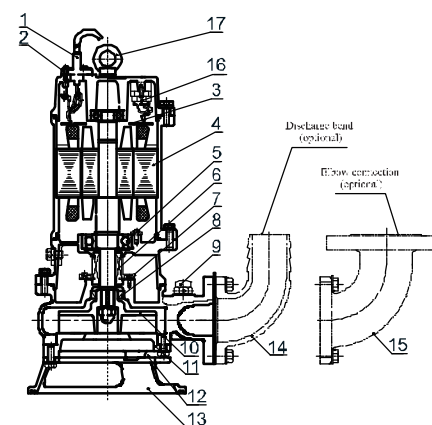
Performance curve



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

Cutting type pump(2 pole motor)

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 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.

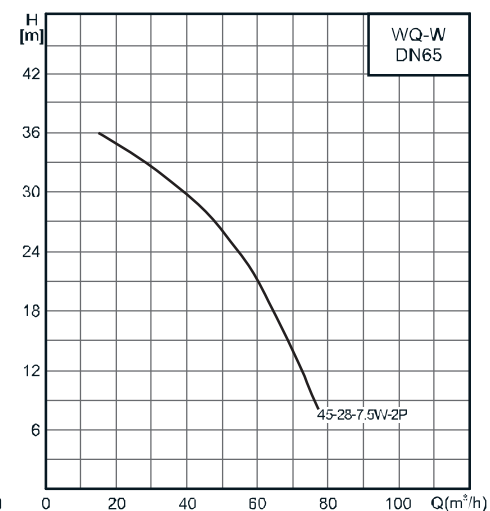
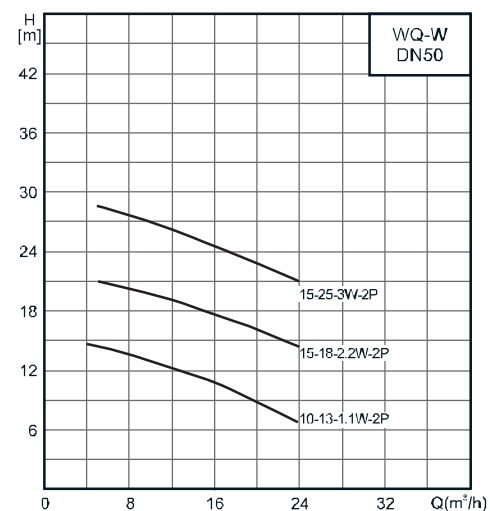
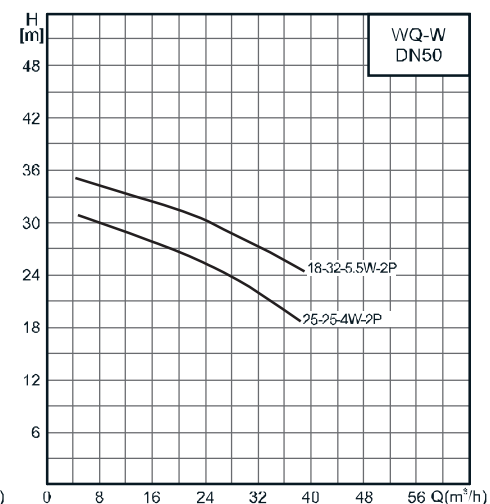
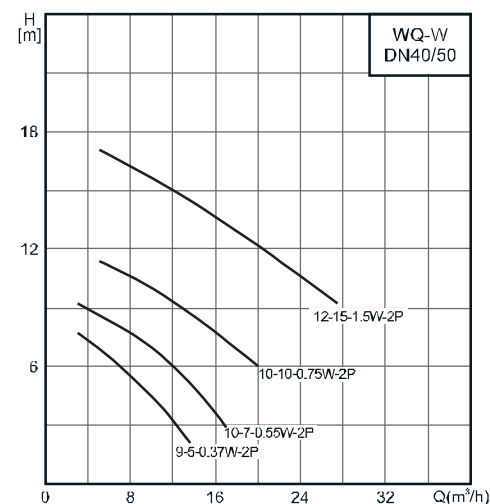
No.	Name	Material
1	Cable	YZW
2	Cable gland (below 4KW)	SUS304
	Cable gland (above 5.5KW)	HT200
3	Threading board (below 4KW)	PPS
	Threading board (below 5.5KW)	Q235
4	Electric motor	/
5	Bearing	/
6	Mechanical seal	Graphite/SIC SIC/SIC+C
7	Oil lifter	/
8	Oil seal	NBR1-2
9	Air vent screw	Resin/others
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

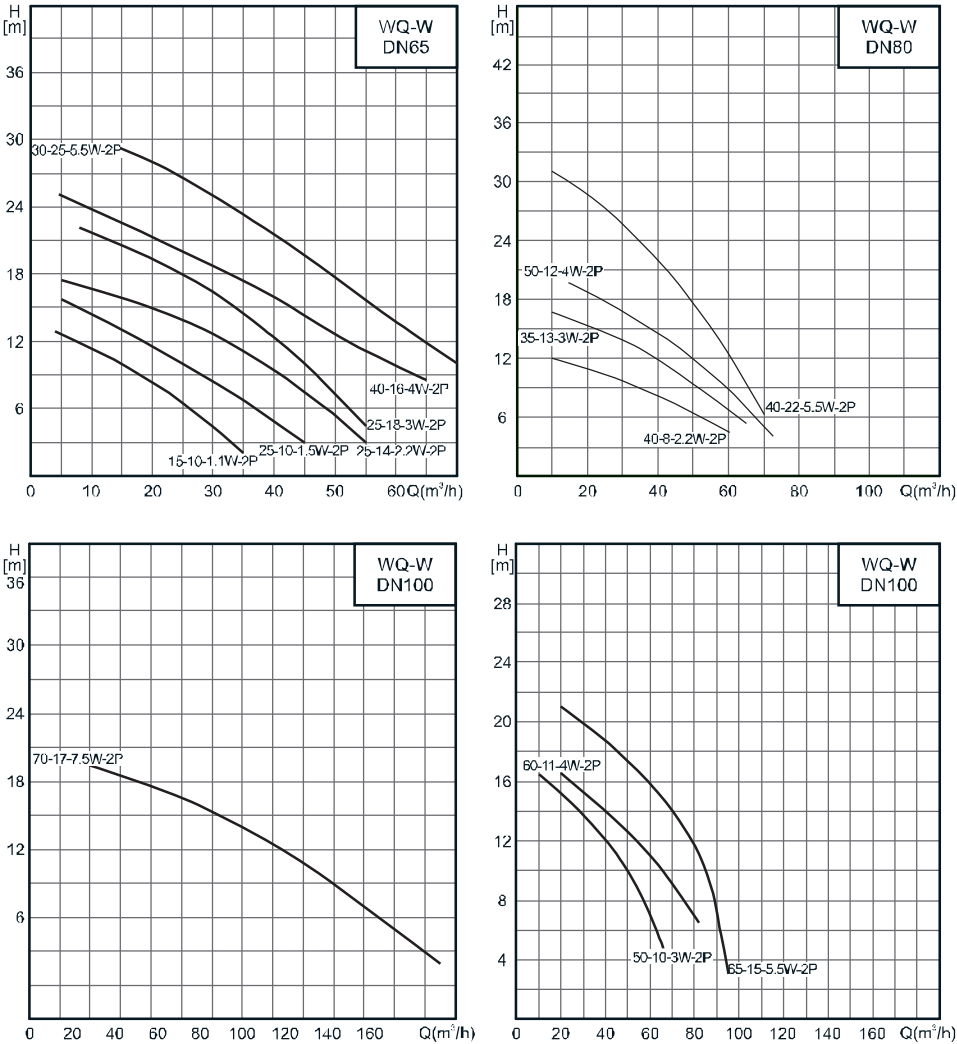
WQ-W(I) type submersible sewage pump

Model	Discharge	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	H3	Coupling
40WQ9-5-0.37W(I)	40	9	5	2800	0.37	380	1.0	15	16	374	260	169	184	79	WT40
40WQ10-7-0.55W(I)	40	10	7	2850	0.55	380	1.2	15	20	420	285	189	222	99	TOS40
40WQ10-10-0.75W(I)	40	10	10	2850	0.75	380	1.8	15	23	420	285	189	222	99	TOS40
40WQ12-15-1.5W(I)	40	12	15	2880	1.5	380	3.3	18	35	478	340	202	269	112	TOS40
50WQ10-13-1.1W(I)	50	10	13	2850	1.1	380	2.6	18	27	443	330	217	241	107.5	TOS50
50WQ10-7-0.55W(I)	50	10	7	2850	0.55	380	1.2	15	20	420	285	209	222	99	TOS50
50WQ10-10-0.75W(I)	50	10	10	2850	0.75	380	1.8	15	23	420	285	209	222	99	TOS50
50WQ12-15-1.5W(I)	50	12	15	2880	1.5	380	3.3	18	35	478	340	222	269	114	TOS50
50WQ15-18-2.2W(I)	50	15	18	2880	2.2	380	4.6	18	39	517	370	224	283	114	TOS50
50WQ15-25-3W(I)	50	15	25	2840	3	380	6.1	20	47	547	400	225	283	115	TOS50
50WQ25-25-4W(I)	50	25	25	2840	4	380	7.7	18	52	593	450	257	298	147	TOS50
50WQ18-32-5.5W(I)	50	18	32	2940	5.5	380	10.8	18	86	814	540	244	324	133.5	TOS50
65WQ15-10-1.1W(I)	65	15	10	2850	1.1	380	2.6	18	29	443	330	227	241	107.5	TOS65
65WQ25-10-1.5W(I)	65	25	10	2880	1.5	380	3.3	18	38	485	350	230	279	110	TOS65
65WQ25-14-2.2W(I)	65	25	14	2880	2.2	380	4.6	18	42	531	390	241	298	121	TOS65
65WQ25-18-3W(I)	65	25	18	2840	3	380	6.1	19	48	550	390	236	278	115.5	TOS65
65WQ40-16-4W(I)	65	40	16	2840	4	380	7.7	18	52	598	470	270	298	149.5	TOS65
65WQ30-25-5.5W(I)	65	30	25	2940	5.5	380	10.8	20	87	824	590	270	324	149.5	TOS65
80WQ40-8-2.2W(I)	80	40	8	2880	2.2	380	4.6	22	49	548	400	259	296	124	TOS80
80WQ35-13-3W(I)	80	35	13	2840	3	380	6.1	19	51	575	430	265	283	130.5	TOS80
80WQ50-12-4W(I)	80	50	12	2840	4	380	7.7	15	55	598	450	285	303	150	TOS80
80WQ40-22-5.5W(I)	80	40	22	2940	5.5	380	10.8	20	87	825	590	285	324	149.5	TOS80
100WQ50-10-3W(I)	100	50	10	2840	3	380	6.1	19	50	575	430	281	311	130.5	TOS100
100WQ60-11-4W(I)	100	60	11	2840	4	380	7.7	18	55	630	500	315	303	165	TOS100
100WQ85-15-5.5W(I)	100	65	15	2940	5.5	380	10.8	24	92	857	560	315	334	165	TOS100
65WQ45-28-7.5W(I)	65	45	28	2940	7.5	380	14.3	33	100	855	590	316	351	149.5	TOS65
100WQ70-17-7.5W(I)	100	70	17	2940	7.5	380	14.3	33	100	855	590	316	351	165.5	TOS100
150WQ140-10-7.5W(I)	150	140	10	2940	7.5	380	14.3	35	120	890	620	383	390	172.5	TOS150
150WQ140-14-11W-4(I)	150	140	14	1440	11	380	22.9	52	216	1097	750	535	575	325	TOS150
200WQ210-10-11W-4(I)	200	210	10	1440	11	380	22.9	63	255	1113	760	530	568	320	TO200
150WQ200-16-15W-4(I)	150	200	16	1440	15	380	30.6	57	237	1167	800	535	572	325	TOS150
200WQ300-10-15W-4(I)	200	300	10	1440	15	380	30.6	64	260	1184	810	535	546	320	TO200

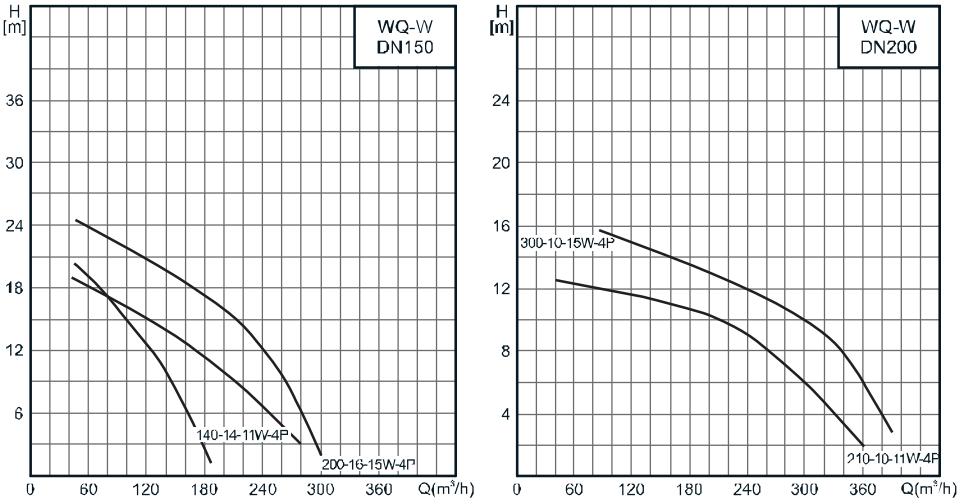
Performance curve



Performance curve

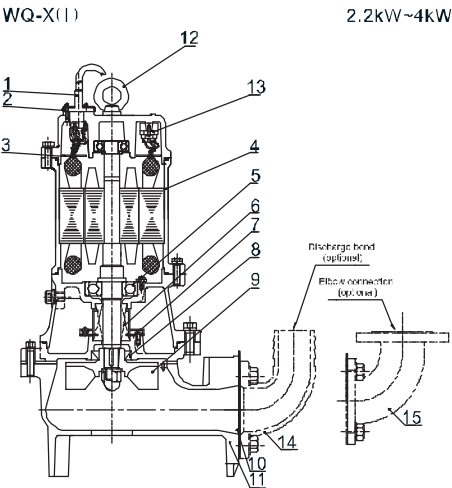
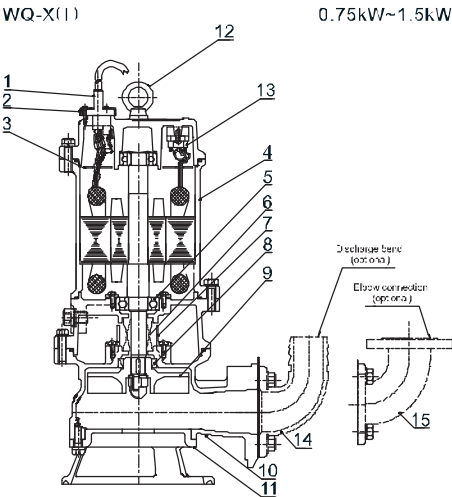


Performance curve



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	HT200
10	Casing	HT200
11	Suction cover	HT200
12	Eye-bolt	/
13	Thermal protector	/
14	Discharge bend (optional)	HT200
15	Elbow connection (optional)	HT200

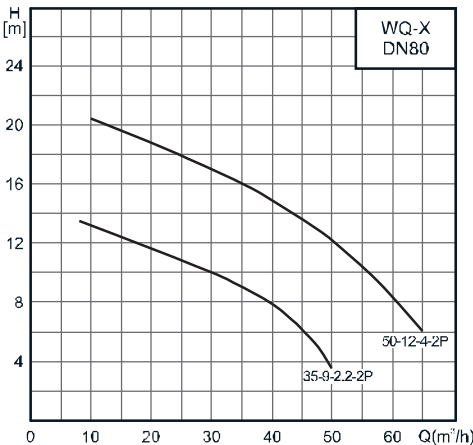
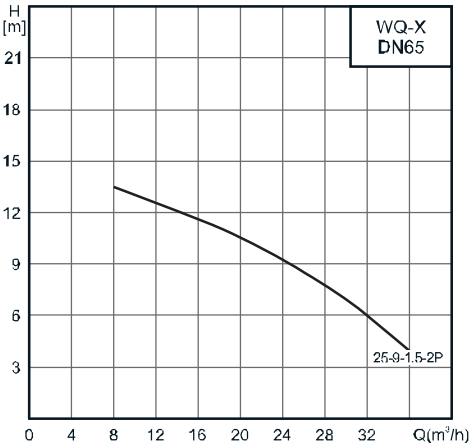
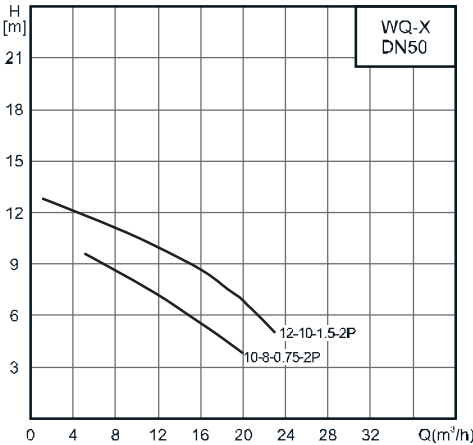
The water pump adopts a swirling impeller structure, and the impeller is in the upper part of the pump body flow passage, so that it has good passability, avoiding blockage of the internal flow passage. So it's suitable for working condition in which liquid contains large particles and where conventional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

Technical data and dimensions

WQ-X(I) type submersible sewage pump

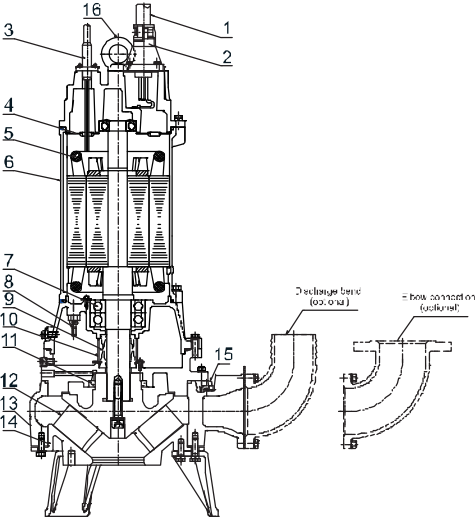
Model	Diameter	Q	H	Speed	Power	Rated current	Max. dia. of passing solid	Weight	Dimensions(mm)					
	(mm)	(m ³ /h)	(m)	(rpm)	(kW)	(A)	(mm)	(kg)	H	H1	H2	Γ	H3	Coupling
50WQX10-8-0.75(I)	50	10	8	2850	0.75	1.8	37	23	432	287	177	215	77	TOS50
50WQX12-10-1.5(I)	50	12	10	2880	1.5	3.3	36	31	468	317	182	250	82	TOS50
65WQX25-9-1.5(I)	65	25	9	2880	1.5	3.3	47	36	490	340	207	250	87	TOS65
80WQX35-9-2.2(I)	80	35	9	2880	2.2	4.6	56	50	545	390	227	275	90	TOS80
80WQX50-12-4(I)	80	50	12	2840	4	7.7	58	58	575	415	230	280	90	TOS80

Performance curve



WQ-H(I) series spiral-flow type submersible sewage pump

4 pole motor vortex pump



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	/

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.

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	Coupling
80WQ80-28-11H-4(I)	80	60	28	1440	11	380	22.9	45	265	1030	800	330	565	TOS80F
80WQ60-35-15H-4(I)	80	60	35	1440	15	380	30.6	45	265	1030	800	330	565	TOS80F
80WQ60-40-18.5H-4(I)	80	60	40	1460	18.5	380	36.9	45	350	1200	870	330	600	TOS80F
80WQ80-43-22H-4(I)	80	80	43	1460	22	380	43.1	45	350	1200	870	330	600	TOS80F
100WQ100-22-11H-4(I)	100	100	22	1440	11	380	22.9	55	270	1085	850	420	560	TOS100F
100WQ100-29-15H-4(I)	100	100	29	1440	15	380	30.6	55	270	1085	850	420	560	TOS100F
100WQ100-32-18.5H-4(I)	100	100	32	1460	18.5	380	36.9	55	330	1255	950	420	560	TOS100F
100WQ100-34-22H-4(I)	100	100	34	1460	22	380	43.1	55	330	1255	950	420	560	TOS100F

Performance curve

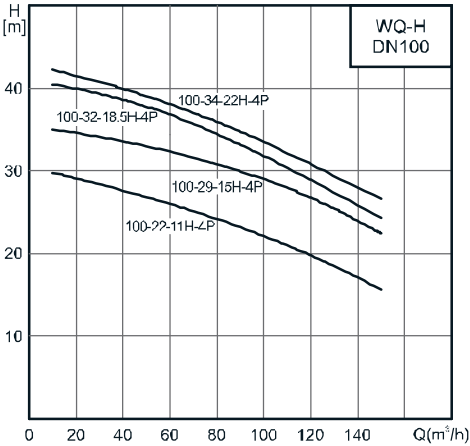
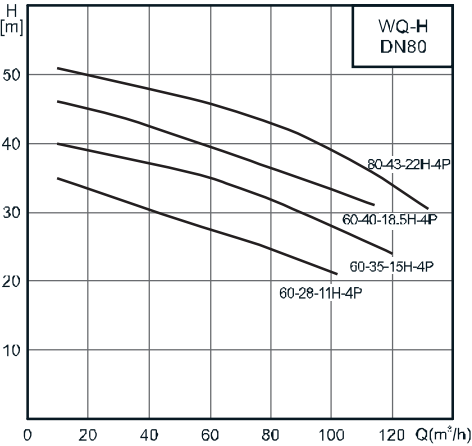


Table of pump models and oil capacities

Pump model and power	Oil capacity	Remark	Pump model and power	Oil capacity	Remark
2P-0.37kW	320		4P-2.2kW	1300	
2P-0.55/0.75/1.1kW	500	40/50WQ15-8-1.1(I) 40/50WQ15-13-1.1(I) 50WQ10-15-1.1QG(I) 50WQ15-12-1.1QG(I) 40/50WQ15-13-1.1JY(I) 40/50WQ15-8-1.1JY(I)	4P-4kW	1200	
2P-1.1kW	670		4P-5.5kW	4200	
2P-1.5kW	940		4P-7.5kW	4500	
2P-2.2kW	1160		4P-11kW	5200	
2P-3kW	1100		4P-15kW	5100	
2P-4kW	1300		4P-18.5/22kW	4600	
2P-5.5kW	2140		4P-30kW	8600	
2P-7.5/11/15kW	2000		4P-37/45kW	9100	
6P-22/30/37kW	9100		4P-55/75kW	9600	
6P-45/55/75kW	14000		4/6P-90-150kW	25000	
8P-22kW	9100				

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

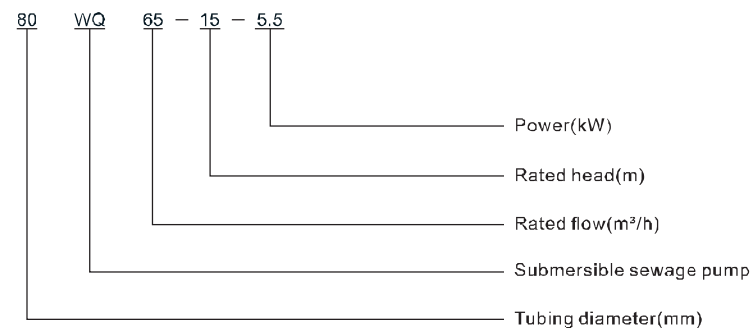
Medium temperature < 40°C, PH value is 4-10, medium density < 1200kg/m³ solid and liquid ratio < 2%.

The lowest liquid level shall 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

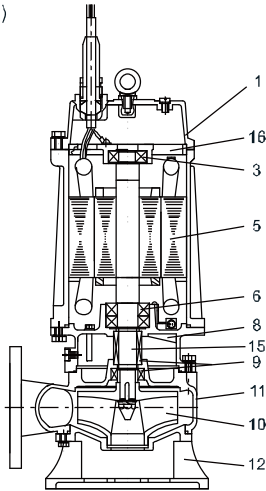


Structure

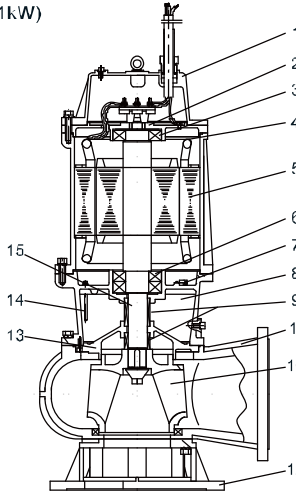
- Pump body and impeller: Carefully selection and matching pump body and impeller, making for better passing ability, higher efficiency and more smooth power curve, not easy to overload. The impeller has precise balance, small vibration and stable rotation.
- Motor: Specially designed submersible motor, 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 pumpwork 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 fullload 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(≤11kW)



WQ(>11kW)



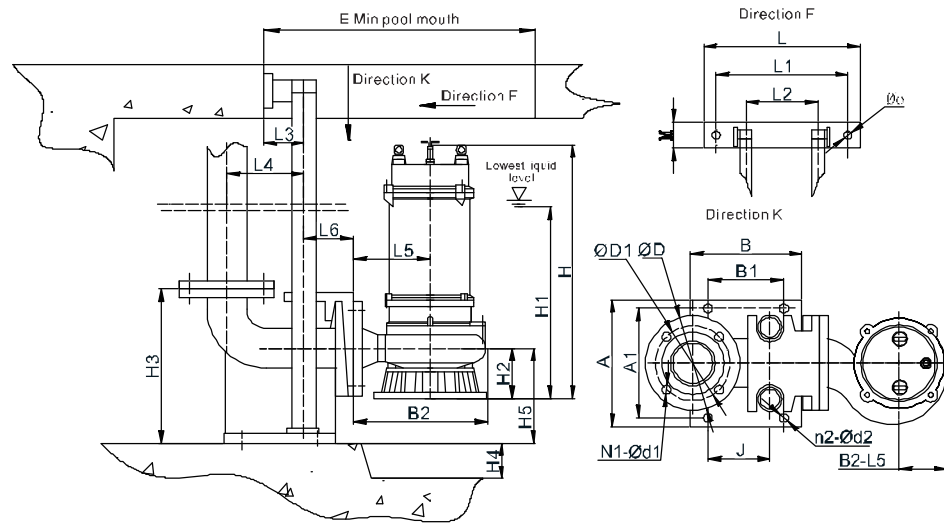
Material

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

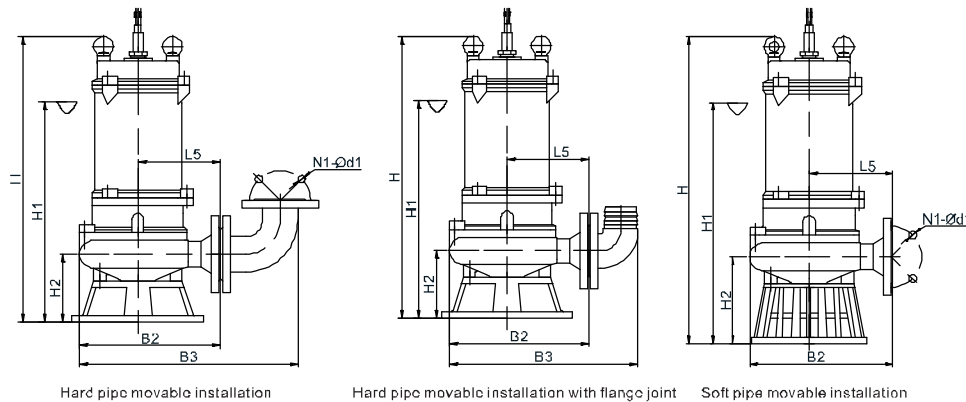
No.	Name	Material
1	Casing cover	HT200
2	Upper bearing seat	HT200
3	Bearing	/
4	Heat control switch	/
5	Motor	/
6	Bearing	/
7	Water in detector	/
8	Oil chamber	/
9	Mechanical seal	SiC/Tungsten carbide
10	Impeller	HT200
11	Casing	HT200
12	Base	HT200
13	Oil chamber cover	HT200
14	Oil water detector	/
15	Shaft	20Cr13

Installation type

For WQ, WQ-JY 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 PN 6			Coupling base dimensions						H3	H4	H5	L	L1	L2	M	Øc	L3	L4	L6	Ødxt
		D	D1	N1-Ød1	A	A1	B	B1	J	N2-Ød2												
1	40WQ	130	100	4-Ø14	108	65	138	68	68	4-Ø18	68	195	120	225	185	70	35	Ø14	65	125	85	Ø34×3
2	50WQ	140	110	4-Ø14	197	168	208	120	120	4-Ø18	120	250	165	265	215	110	42	Ø14	66	135	90	Ø34×3
3	65WQ	160	130	4-Ø14	238	190	252	135	135	4-Ø18	135	265	170	280	235	125	50	Ø14	70	185	85	Ø34×3
4	80WQ	190	150	4-Ø19	255	220	225	125	125	4-Ø18	125	310	190	315	265	145	53	Ø14	80	155	100	Ø34×3
5	100WQ	210	170	4-Ø19	293	265	258	140	140	4-Ø25	140	350	235	365	305	170	55	Ø15	100	200	110	Ø48×3
6	150WQ	265	225	4-Ø19	400	300	410	210	210	4-Ø25	210	485	305	410	260	285	60	Ø15	100	300	190	Ø48×3
7	200WQ	320	280	8-Ø19	400	300	450	245	245	4-Ø25	245	550	330	410	260	285	60	Ø15	100	330	195	Ø48×3
8	250WQ	375	335	8-Ø19	460	370	570	325	325	4-Ø25	325	640	350	410	260	285	60	Ø15	100	395	195	Ø48×3
9	300WQ	445	400	12-Ø19	550	415	600	330	330	4-Ø25	330	730	415	530	350	375	65	Ø16	115	392	266	Ø60×3
10	350WQ	505	460	12-Ø23	650	419	645	320	320	4-Ø25	320	855	480	520	350	375	65	Ø16	115	424	285	Ø60×3
11	400WQ	565	515	16-Ø28	630	490	675	390	390	4-Ø25	390	965	560	520	350	196	65	Ø16	145	460	288	Ø60×3
12	450WQ	615	565	20-Ø28	600	500	675	530	530	4-Ø40	530	900	470	550	400	250	130	Ø22	130	600	250	Ø75×3
13	500WQ	670	620	20-Ø28	650	550	700	580	580	4-Ø40	580	950	490	600	400	300	130	Ø22	130	600	250	Ø75×3
14	600WQ	780	725	20-Ø31	1200	1050	1150	1100	1100	4-Ø48	1100	1100	590	650	450	350	156	Ø22	150	720	300	Ø75×3

Relevant dimensions

Measure: mm (except inch)

Diameter Item	40	50	65	80	100	150	200	250	300	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
		(mm)	(m³/h)	(m)	(rpm)	(kw)	(A)	cosφ	(A)	(mm)	H	H1	B3	B2	L5	H2	(kg)
1	40WQ10-10-0.75	40	10	10	2950	0.75	67	0.83	1.83	10	450	380	320	235	140	100	23/26
2	40WQ7-15-1.1	40	7	15	2950	1.1	70	0.85	2.60	10	490	380	320	235	140	100	25
3	40WQ15-8-1.1	40	15	8	2950	1.1	70	0.85	2.60	10	490	380	320	235	140	100	25
4	40WQ12-15-1.5	40	12	15	2950	1.5	73	0.84	3.50	15	490	420	360	270	140	120	29
5	50WQ10-7-0.55	50	10	7	2950	0.55	67	0.83	1.33	10	450	380	320	235	140	110	23/26
6	50WQ10-10-0.75	50	10	10	2950	0.75	67	0.83	1.83	10	450	380	320	235	140	110	23/26
7	50WQ7-15-1.1(日本法二)	50	7	15	2950	1.1	70	0.85	2.60	10	490	380	320	235	140	110	25
8	50WQ7-15-1.1	50	7	15	2950	1.1	70	0.85	2.60	10	490	380	320	235	140	110	25
9	50WQ15-8-1.1	50	15	8	2950	1.1	70	0.85	2.60	10	490	380	320	235	140	110	25
10	50WQ10-15-1.5	50	10	15	2950	1.5	73	0.84	3.50	15	520	415	370	280	150	120	31
11	50WQ15-10-1.5	50	15	10	2950	1.5	73	0.84	3.50	15	520	415	370	280	150	120	31
12	85WQ25-8-1.5	85	25	8	2950	1.5	73	0.84	3.50	30	525(568)	455(498)	395	280	160	125(168)	38
13	50WQ9-22-2.2	50	9	22	2950	2.2	75	0.85	4.90	10	520	450	370	270	150	125	37
14	50WQ25-10-2.2	50	25	10	2950	2.2	75	0.85	4.90	10	520	450	370	270	150	125	37
15	65WQ35-7-2.2	65	35	7	2950	2.2	75	0.85	4.90	30	525(568)	455(498)	395	280	160	125(168)	38
16	80WQ40-10-2.2	80	40	10	2950	2.2	75	0.85	4.90	30	540(583)	450(493)	415	285	165	125(168)	41
17	100WQ50-7-2.2	100	50	7	2950	2.2	75	0.85	4.90	35	542(583)	472(513)	460	300	180	140(181)	41
18	50WQ15-30-3	50	15	30	2950	3	77	0.87	6.40	25	550(593)	480(523)	380	300	180	125(168)	43
19	50WQ20-25-3	50	20	25	2950	3	77	0.87	6.40	25	550(593)	480(523)	380	300	180	125(168)	43
20	85WQ35-10-3	85	35	10	2950	3	77	0.87	6.40	30	545(588)	475(518)	395	280	160	125(168)	42
21	80WQ40-12-3	80	40	12	2950	3	77	0.87	6.40	30	540(583)	470(513)	415	300	180	125(168)	43
22	100WQ80-9-3	100	60	9	2950	3	77	0.87	6.40	35	562(605)	492(535)	460	300	180	140(183)	62
23	50WQ15-35-4	50	15	35	2950	4	78	0.87	8.10	25	580(615)	500(535)	395	295	170	132(167)	61
24	50WQ25-22-4	50	25	22	2950	4	78	0.87	8.10	25	580(615)	500(535)	395	295	170	132(167)	61
25	65WQ20-25-4	65	20	25	2950	4	78	0.87	8.10	30	580(615)	500(535)	430	315	180	132(167)	60
26	80WQ40-15-4	80	40	15	2950	4	78	0.88	8.10	30	600(635)	520(555)	440	315	180	140(175)	61
27	80WQ60-12-4	80	60	12	2950	4	78	0.88	8.10	30	600(635)	520(555)	440	315	180	140(175)	61
28	100WQ80-8-4	100	80	8	2950	4	78	0.87	8.10	35	600(635)	520(555)	475	315	190	140(183)	62
29	50WQ15-40-5.5	50	15	40	2950	5.5	81	0.88	11.00	30	600(635)	520(555)	410	310	185	132(167)	68
30	50WQ25-25-5.5	50	25	25	2950	5.5	81	0.88	11.00	30	600(635)	520(555)	410	310	185	132(167)	68
31	65WQ30-30-5.5	65	30	30	2950	5.5	81	0.88	11.00	30	605(640)	525(560)	410	315	180	132(167)	65
32	80WQ40-22-5.5	80	40	22	2950	5.5	81	0.88	11.00	30	625(660)	545(580)	440	315	185	140(175)	74
33	80WQ65-15-5.5	80	65	15	2950	5.5	81	0.88	11.00	30	625(660)	545(580)	440	315	185	140(175)	74
34	80WQ85-10-5.5	80	85	10	2950	5.5	81	0.88	11.00	30	625(660)	545(580)	440	315	185	140(175)	74
35	100WQ65-15-5.5	100	65	15	2950	5.5	81	0.88	11.00	35	625(660)	545(580)	475	315	195	140(175)	74
36	100WQ85-10-5.5	100	85	10	2950	5.5	81	0.88	11.00	35	625(660)	560(595)	475	315	195	140(175)	74

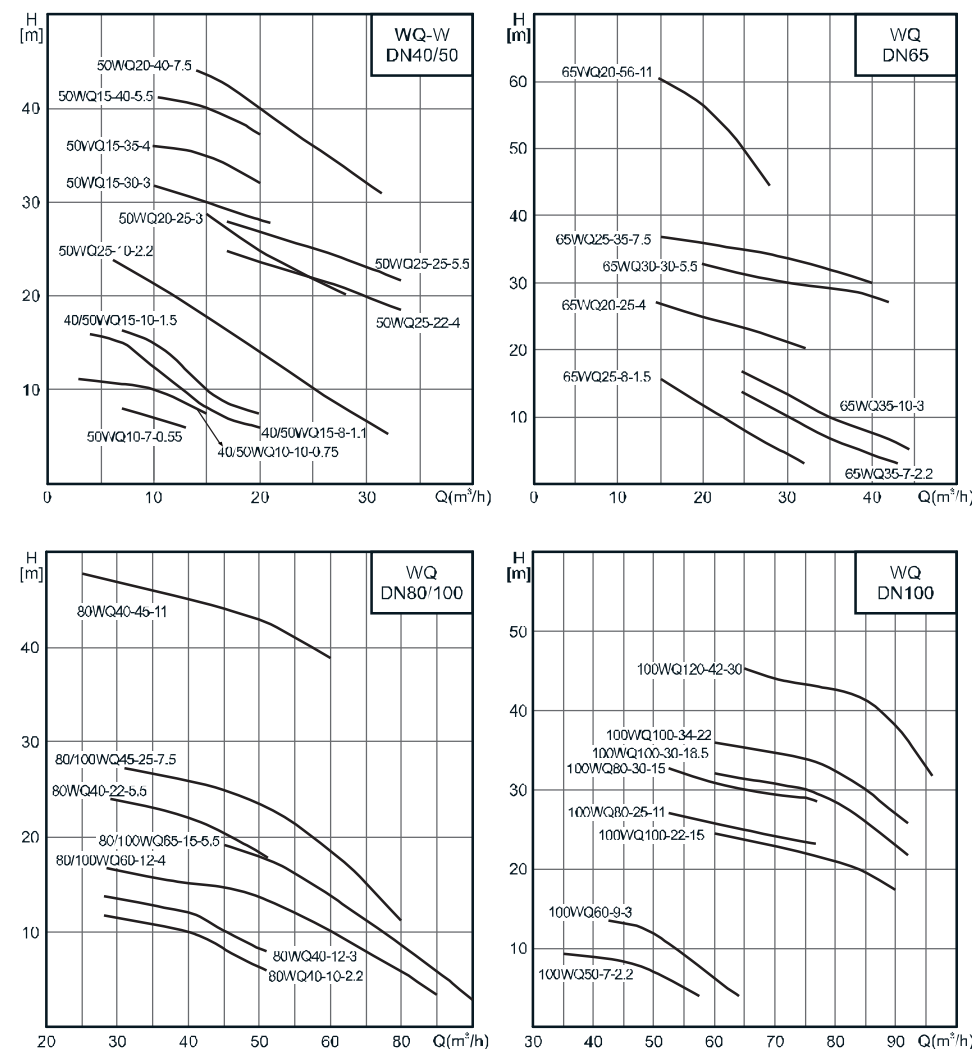
Technical data and dimensions

No.	Model	Diameter	Q	H	Speed	Power	Efficiency	Power factor	Rated current	Max. dia. of passing solid	Dimensions(mm)							Weight
		(mm)	(m³/h)	(m)	(rpm)	(kw)	(A)	cosφ	(A)	(mm)	H	H1	B3	B2	L5	H2	(kg)	
37	150WQ100-7-5.5	150	100	7	2950	5.5	81	0.88	11.00	45	720(755)	545(580)	540	330	195	145(180)	83	
38	50WQ20-40-7.5	50	20	40	2950	7.5	82	0.88	15.00	25	690(745)	590(645)	445	345	185	140(195)	95	
39	50WQ30-32-7.5	50	30	32	2950	7.5	82	0.88	15.00	25	690(745)	590(645)	445	345	185	140(195)	95	
40	65WQ25-35-7.5	65	25	35	2950	7.5	82	0.88	15.00	25	690(745)	590(645)	470	355	185	140(195)	73	
41	80WQ45-25-7.5	80	45	25	2950	7.5	82	0.88	15.00	30	710(765)	610(665)	510	365	205	146(201)	100	
42	80WQ65-20-7.5	80	65	20	2950	7.5	82	0.88	15.00	30	710(765)	610(665)	510	365	205	146(201)	100	
43	100WQ80-15-7.5	100	80	15	2950	7.5	82	0.88	15.00	35	710(765)	610(665)	525	365	205	151(206)	103	
44	100WQ45-25-7.5	100	45	25	2950	7.5	82	0.88	15.00	35	710(765)	610(665)	525	365	205	151(206)	103	
45	150WQ100-12-7.5	150	100	12	2950	7.5	83	0.88	15.00	45	800	630	575	365	200	180	108	
46	150WQ135-10-7.5	150	135	10	1475	7.5	82	0.85	16.00	45	855	685	575	520	300	235	143	
47	65WQ20-56-11	65	20	56	2950	11	83	0.89	22.00	25	850(905)	780(835)	500	365	195	185(240)	148	
48	80WQ40-45-11	80	40	45	2950	11	83	0.88	22.00	30	850(905)	780(835)	500	365	195	185(240)	153	
49	100WQ80-25-11	100	80	25	1475	11	83	0.85	23.00	35	910(965)	710(765)	700	540	325	210(265)	212	
50	150WQ130-15-11	150	130	15	1475	11	83	0.85	23.00	45	950(1005)	750(805)	770	560	350	240(295)	220	
51	150WQ200-10-11	150	200	10	1475	11	83	0.85	23.00	45	950(1005)	750(805)	770	560	350	240(295)	220	
52	200WQ300-7-11	200	300	7	1475	11	83	0.85	23.00	55	960(1015)	760(815)	870	580	355	240(295)	230	
53	100WQ80-30-15	100	80	30	1475	15	84	0.85	30.00	35	950(1030)	750(805)	700	540	325	210(265)	239	
54	100WQ100-22-15	100	100	22	1475	15	84	0.85	30.00	35	950(1050)	750(805)	700	540	325	210(265)	239	
55	150WQ130-20-15	150	130	20	1475	15	84	0.85	30.00	45	990(1045)	790(845)	770	560	350	240(295)	242	
56	150WQ150-18-15	150	150	18	1475	15	84	0.85	30.00	45	990(1045)	790(845)	770	560	350	240(295)	242	
57	150WQ200-15-15	150	200	15	1475	15	84	0.85	30.00	45	990(1045)	790(845)	770	560	350	240(295)	242	
58	200WQ250-12-15	200	250	12	1475	15	84	0.85	30.00	55	1000(1055)	800(855)	870	580	355	240(295)	257	
59	100WQ80-35-18.5	100	80	35	1475	18.5	85	0.85	36.00	35	1060(1115)	850(905)	710	550	325	210(265)	285	
60	100WQ100-30-18.5	100	100	30	1475	18.5	85	0.85	36.00	35	1060(1115)	850(905)	710	550	325	210(265)	285	
61	150WQ150-22-18.5	150	150	22	1475	18.5	85	0.9	36.00	45	1080(1135)	1030(1085)	830	620	350	240(295)	290	
62	150WQ180-20-18.5	150	180	20	1475	18.5	85	0.9	36.00	45	1080(1135)	1030(1085)	830	620	350	240(295)	290	
63	200WQ250-15-18.5	200	250	15	1475	18.5	85	0.85	36.00	50	1120(1175)	850(905)	870	580	355	250(305)	312	
64	200WQ300-12-18.5	200	300	12	1475	18.5	85	0.85	36.00	50	1120(1175)	850(905)	870	580	355	250(305)	312	
65	100WQ100-34-22	100	100	34	1475	22	86	0.87	42.00	35	1180(1245)	950(965)	840	680	420	220(275)	300	
66	200WQ250-17-22	200	250	17	1475	22	86	0.87	42.00	55	1150(1205)	890(945)	870	580	355	250(305)	330	
67	200WQ300-15-22	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	150WQ180-30-30	150	180	30	1475	30	86	0.87	58.00	45	1240	1000	860	650	380	240	455	
70	150WQ250-22-30	150	250	22	1475	30	86	0.87	58.00	45	1240	1000	860	650	380	240	455	
71	200WQ360-16-30	250	360	16	1475	30	86	0.87	58.00	55	1240	1000	910	620	380	285	475	
72	250WQ600-9-30	200	600	9	1475	30	86	0.87	58.00	70	1290	1050	1010	660	390	330	490	

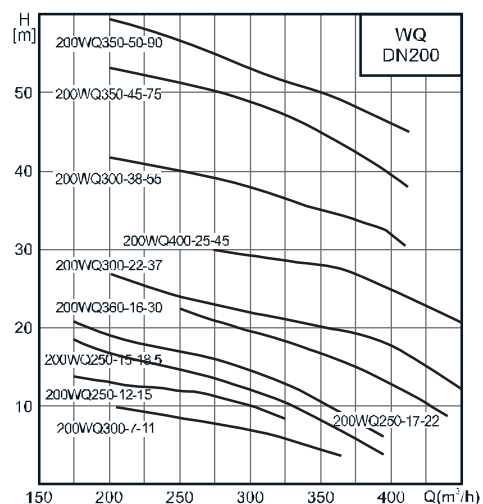
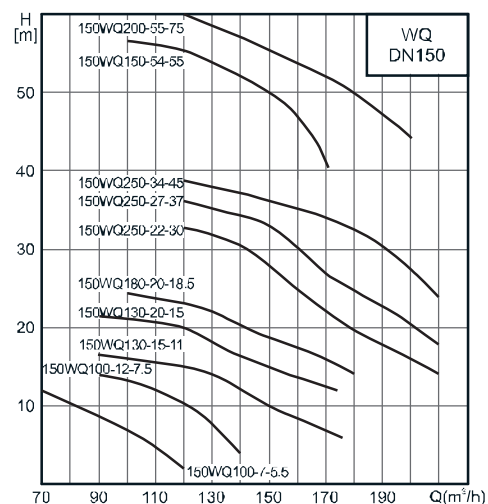
Technical data and dimensions

No.	Model	Diameter	Q	H	Speed	Power	Efficiency	Power factor	Rated current	Max. cable length	Dimensions (mm)						Weight
		(mm)	(m³/h)	(m)	(rpm)	(kW)	(%)	cosφ	(A)	(m)	H	H1	B3	B2	L5	H2	(kg)
73	300WQ800-7-30	300	800	7	1475	30	86	0.87	58	70	1440	1200	1475	720	410	305	475
74	350WQ1000-6-30	350	1000	6	980	37	88	0.86	70	85	1500	1300	1540	720	510	380	785
75	150WQ180-34-37	150	180	34	1475	37	89	0.87	70	45	1240	1000	935	725	380	270	528
76	150WQ250-27-37	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	250WQ600-13-37	250	600	13	1475	37	89	0.87	70	70	1320	1080	1010	660	390	330	545
80	300WQ900-7-37	300	900	7	1475	37	89	0.87	70	70	1440	1200	1475	720	410	380	567
81	350WQ1000-7-37	350	1000	7	980	37	88	0.86	70	85	1500	1300	1540	720	510	380	785
82	150WQ180-37-45	150	180	37	1475	45	89	0.87	85	45	1340	1100	1030	750	380	270	528
83	150WQ250-34-45	150	250	34	1475	45	89	0.87	85	45	1340	1100	1030	750	380	270	528
84	200WQ400-25-45	200	400	25	1475	45	89	0.87	85	55	1320	1100	910	620	380	285	575
85	250WQ600-16-45	250	600	16	1475	45	89	0.87	85	70	1360	1100	1010	660	390	330	600
86	250WQ800-12-45	250	250	12	1475	45	89	0.87	85	70	1360	1100	1010	660	390	330	600
87	300WQ900-9-45	300	300	9	1475	45	89	0.87	85	70	1490	1250	1475	720	410	305	626
88	350WQ1000-10-45	350	350	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	150	50	1475	55	90	0.87	103	45	1530	1300	1020	770	480	250	890
91	200WQ300-38-55	200	200	38	1475	55	90	0.87	103	55	1500	1150	1010	720	458	335	806
92	200WQ400-32-55	200	200	32	1475	55	90	0.87	103	55	1500	1150	1010	720	458	335	806
93	250WQ600-20-55	250	250	20	1475	55	90	0.87	103	70	1500	1150	1070	720	458	390	825
94	300WQ800-15-55	300	300	15	1475	55	89	0.87	103	70	1490	1250	1475	905	500	400	626
95	350WQ1100-10-55	350	350	10	1475	55	89	0.87	103	85	1500	1200	1590	1130	680	429	832
96	400WQ1300-8-55	400	400	8	980	55	90	0.87	105	85	1520	1200	1810	1200	670	380	1410
97	150WQ200-55-75	150	150	55	1475	75	90	0.87	140	45	1600	1350	1100	985	600	250	910
98	200WQ350-45-75	200	200	45	1475	75	90	0.87	140	55	1550	1250	1010	720	458	335	906
99	250WQ600-25-75	250	250	25	1475	75	90	0.87	140	65	1520	1180	1070	720	458	390	955
100	300WQ800-18-75	300	300	18	1475	75	90	0.87	140	80	1570	1170	1475	905	500	400	1010
101	350WQ1200-15-75	350	350	15	980	75	90	0.82	155	85	1520	1200	1590	1150	700	380	1100
102	400WQ1400-12-75	400	400	12	980	75	90	0.82	142	85	1580	1280	2055	1400	750	380	2010
103	200WQ350-50-90	200	200	50	1475	90	91	0.871	167	50	1700	1300	1400	780	520	300	1200
104	250WQ600-30-90	250	250	30	1475	90	91	0.871	167	65	1580	1200	1400	720	458	390	1008
105	300WQ900-22-90	300	300	22	1475	90	91	0.871	167	70	1570	1200	1475	905	500	400	1060
106	350WQ1100-18-90	350	350	18	980	90	90	0.87	167	85	2365	2100	1590	1190	710	380	1410
107	400WQ1500-15-90	400	400	15	980	90	90	0.81	170	95	2000	1700	2155	1500	900	380	1500
108	500WQ2000-10-90	500	500	10	980	90	77	0.81	170	95	2100	1800	2210	1550	920	520	1600

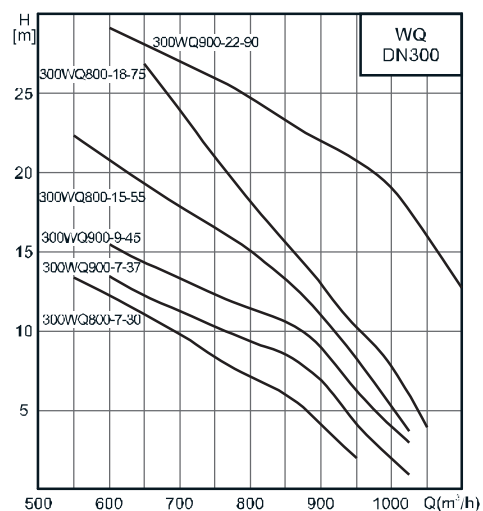
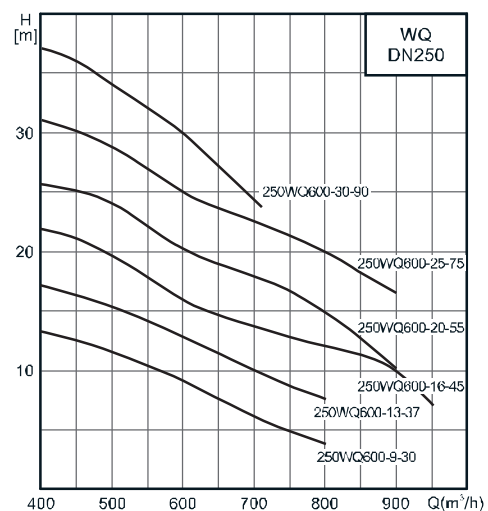
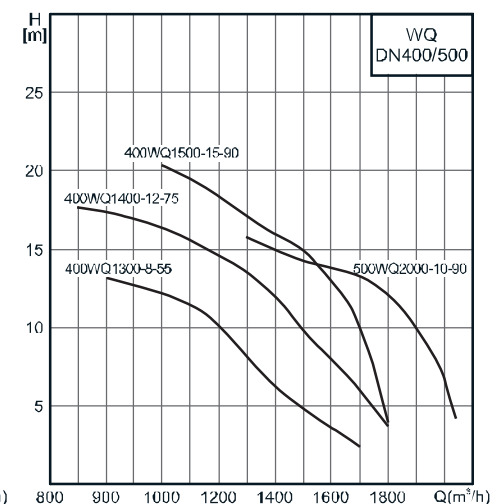
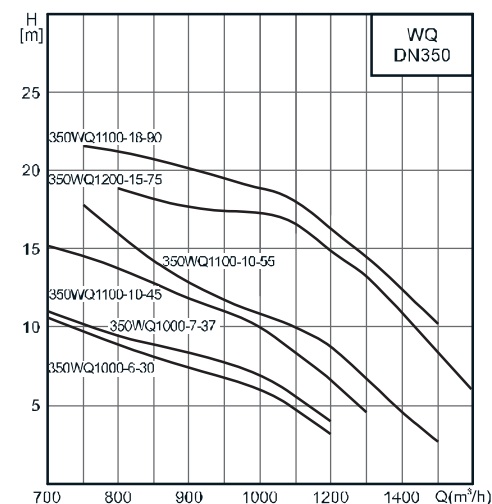
Performance curve



Performance curve



Performance curve



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. On request two guides auto coupling device system, it is convenient for pump installation.

Double-end mechanical seal uses tungsten carbide which can work for over 1000 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.

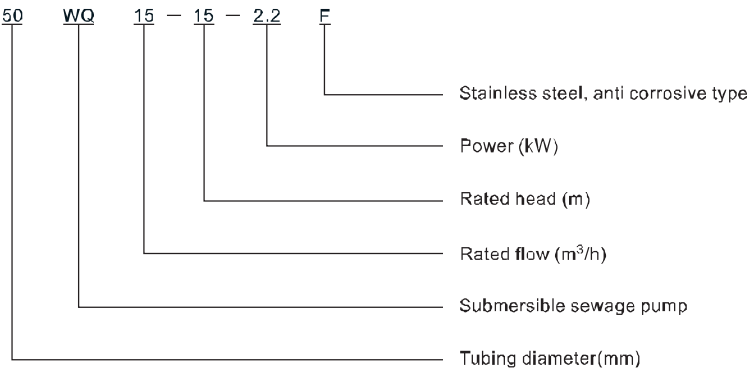
Working conditions

Power supply: 50Hz, 3×380V

Medium temperature < 60°C , PH value is 2-12 , medium density < 1200kg/m³, solid and liquid ratio < 2%.

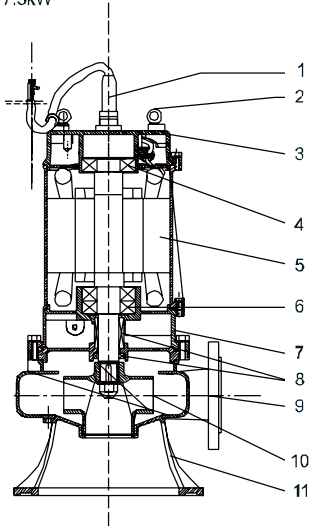
When working, motor on liquid level shall more than 1/2 of the whole motor.

Definition of model



Sectional drawing

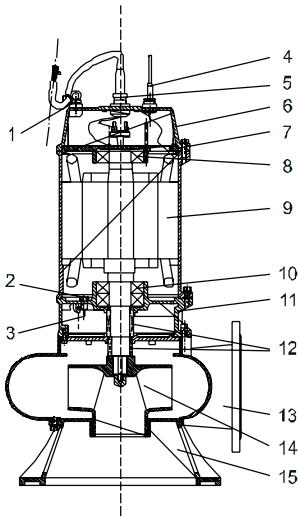
0.55~7.5kW



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

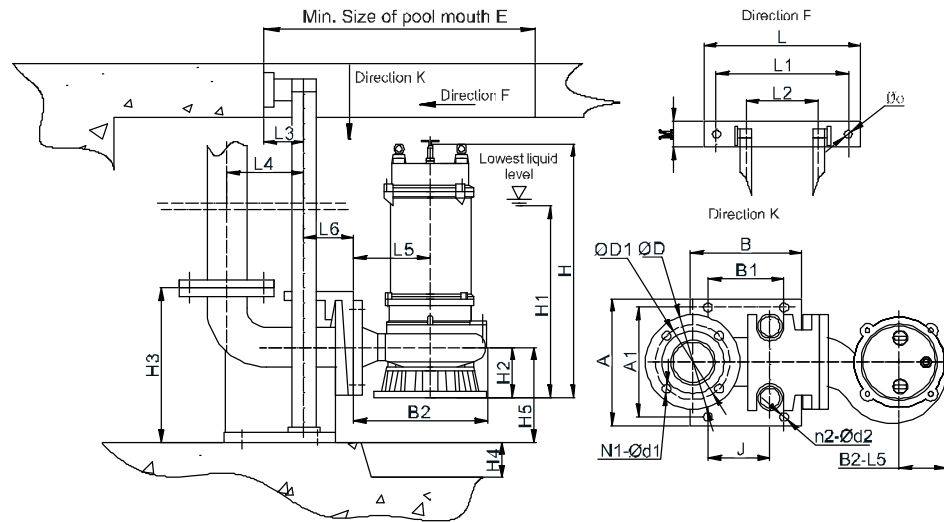
11~45kW



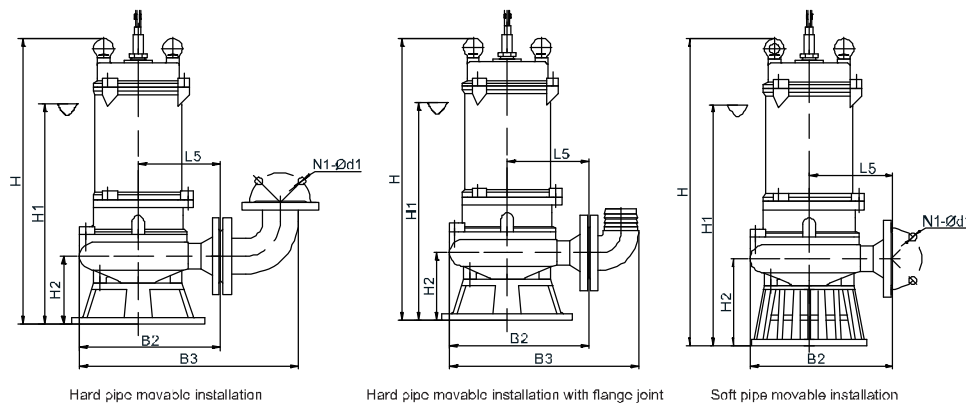
No.	Name	Material
1	Eye-bolt	/
2	Water leak detector	/
3	Oil water detector	/
4	Control cable and seal	/
5	Power cable and seal	/
6	Casing cover	06Cr19Ni10
7	Upper bearing bracket	/
8	Bearing	/
9	Motor	/
10	Bearing	/
11	Oil chamber	06Cr19Ni10
12	Mechanical seal	SiC/Tungsten carbide
13	Casing	06Cr19Ni10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

Installation type

Fixed auto coupling device installation



Movable installation



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	Øc	L3	L4	L5	Ød×L
		D	D1	N1-Ød1	A	A1	B	B1	J	N2-Ød2												
1	50WQ-F	65	125	4-Ø19	180	140	270	190	214	4-Ø19	240	100	120	220	180	60	44	12	50	152	52	Ø34×3
2	65WQ-F	180	145	4-Ø19	190	150	280	190	221	4-Ø19	240	100	120	220	180	60	44	12	50	149	55	Ø34×3
3	80WQ-F	95	160	8-Ø19	230	170	300	210	235	4-Ø19	270	150	130	250	210	80	50	15	57	165	63	Ø48×3
4	100WQ-F	215	180	8-Ø19	230	190	300	210	237	4-Ø25	300	150	150	250	210	80	50	15	57	185	63	Ø48×3
5	150WQ-F	280	240	8-Ø19	300	250	460	330	367	4-Ø25	380	150	180	330	280	120	50	19	62	305	76	Ø48×3
6	200WQ-F	335	295	8-Ø19	400	372	420	324	548	4-Ø25	508	200	277	410	370	192	60	15	78	200	156	Ø48×3
7	250WQ-F	395	350	4-Ø19	420	360	580	450	471	4-Ø25	500	200	240	340	280	160	70	23	115	359	95	Ø48×3
8	300WQ-F	445	400	12-Ø23	460	400	630	500	521	4-Ø25	560	200	260	380	320	200	70	23	115	400	95	Ø60×3
9	350WQ-F	505	460	16-Ø23	650	419	645	400	320	4-Ø25	855	200	480	520	460	196	65	16	145	424	285	Ø60×3
10	400WQ-F	565	515	16-Ø28	630	490	675	520	390	4-Ø25	965	200	560	520	350	196	65	16	145	460	288	Ø60×3
11	500WQ-F	670	620	20-Ø28	650	550	700	600	580	4-Ø40	950	200	490	600	400	300	130	22	130	600	250	Ø75×3

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

Technical data and dimensions

No.	Model	Diameter (mm)	Q (m³/h)	H (m)	Power (kw)	Speed (rpm)	Voltage (V)	d (mm)	L5	B2	I1	H1	H2	L8	L9	L7	Weight (kg)
1	50WQ10-7-0.55F	50	10	7	0.55	380/220	2950	15	135	200	490	420	110	90	95	105	23
2	50WQ10-10-0.75F		10	10	0.75			15	135	200	490	420	110	90	95	105	24
3	50WQ7-15-1.1F		7	15	1.1			15	135	200	490	420	110	85	90	95	25
4	50WQ15-8-1.1F		15	8	1.1			15	135	200	490	420	110	90	95	105	25
5	50WQ10-15-1.5F		10	15	1.5			15	150	240	530	460	125	100	105	115	29
6	50WQ15-10-1.5F		15	10	1.5			15	150	240	530	460	125	100	105	115	29
7	65WQ25-8-1.5F	65	25	8	1.5	2950	380	15	150	240	530	460	125	100	105	115	29
8	50WQ9-22-2.2F	50	9	22	2.2			15	150	240	530	460	125	100	105	115	38
9	50WQ25-10-2.2F		25	10	2.2			15	150	240	530	460	125	100	105	115	37
10	65WQ35-7-2.2F	65	35	7	2.2			25	160	240	530	460	125	95	100	110	38
11	80WQ40-10-2.2F	80	40	10	2.2			25	165	240	530	460	125	100	110	125	41
12	50WQ15-30-3F	50	15	30	3			20	160	240	550	480	120	100	110	120	43
13	50WQ25-15-3F		25	15	3			20	160	240	560	480	120	100	110	120	43
14	65WQ35-10-3F	65	35	10	3	2950	380	25	160	240	560	490	134	95	100	110	44
15	80WQ40-12-3F	80	40	12	3			25	180	240	570	500	110	120	135	125	44
16	50WQ15-35-4F	50	15	35	4			15	160	270	580	480	134	110	120	130	61
17	50WQ25-22-4F		25	22	4			15	160	270	580	480	134	110	120	130	61
18	65WQ20-25-4F	65	20	25	4			25	180	270	605	525	134	110	120	130	62
19	80WQ40-15-4F	80	40	15	4			25	180	270	650	550	155	115	130	135	63
20	80WQ80-12-4F		60	12	4			25	180	270	650	550	155	115	130	135	63
21	100WQ80-8-4F	100	80	8	4	2950	380	30	190	270	650	550	155	130	140	160	64
22	50WQ15-40-5.5F	50	15	40	5.5			15	180	270	635	510	134	110	120	130	68
23	50WQ25-25-5.5F		25	25	5.5			15	160	270	635	510	134	116	125	140	68
24	65WQ30-30-5.5F	65	30	30	5.5			15	180	270	650	525	134	117	125	130	69
25	80WQ40-22-5.5F	80	40	22	5.5			25	180	270	650	550	140	110	120	130	74
26	80WQ65-15-5.5F		65	15	5.5			25	180	270	650	550	140	110	120	130	74
27	80WQ85-10-5.5F	100	85	10	5.5			25	180	270	650	550	140	110	120	130	74
28	100WQ65-15-5.5F		65	15	5.5			30	180	270	650	550	140	110	130	150	76
29	100WQ85-10-5.5F	100	85	10	5.5			30	180	270	650	550	140	110	130	150	76
30	50WQ20-40-7.5F		20	40	7.5	2950	380	15	185	320	690	510	140	135	140	145	95
31	50WQ30-32-7.5F	50	30	32	7.5			15	185	320	690	510	140	135	140	145	95
32	65WQ25-35-7.5F		25	35	7.5			25	185	320	850	685	140	180	190	195	97
33	80WQ45-25-7.5F	80	30	32	7.5			25	205	320	710	610	140	140	155	160	100
34	80WQ65-20-7.5F	80	65	20	7.5			25	205	320	710	610	140	140	155	160	100
35	100WQ80-15-7.5F	100	80	15	7.5			30	210	320	720	650	190	140	150	155	103
36	100WQ45-25-7.5F		45	25	7.5			25	210	320	720	650	190	140	150	155	103

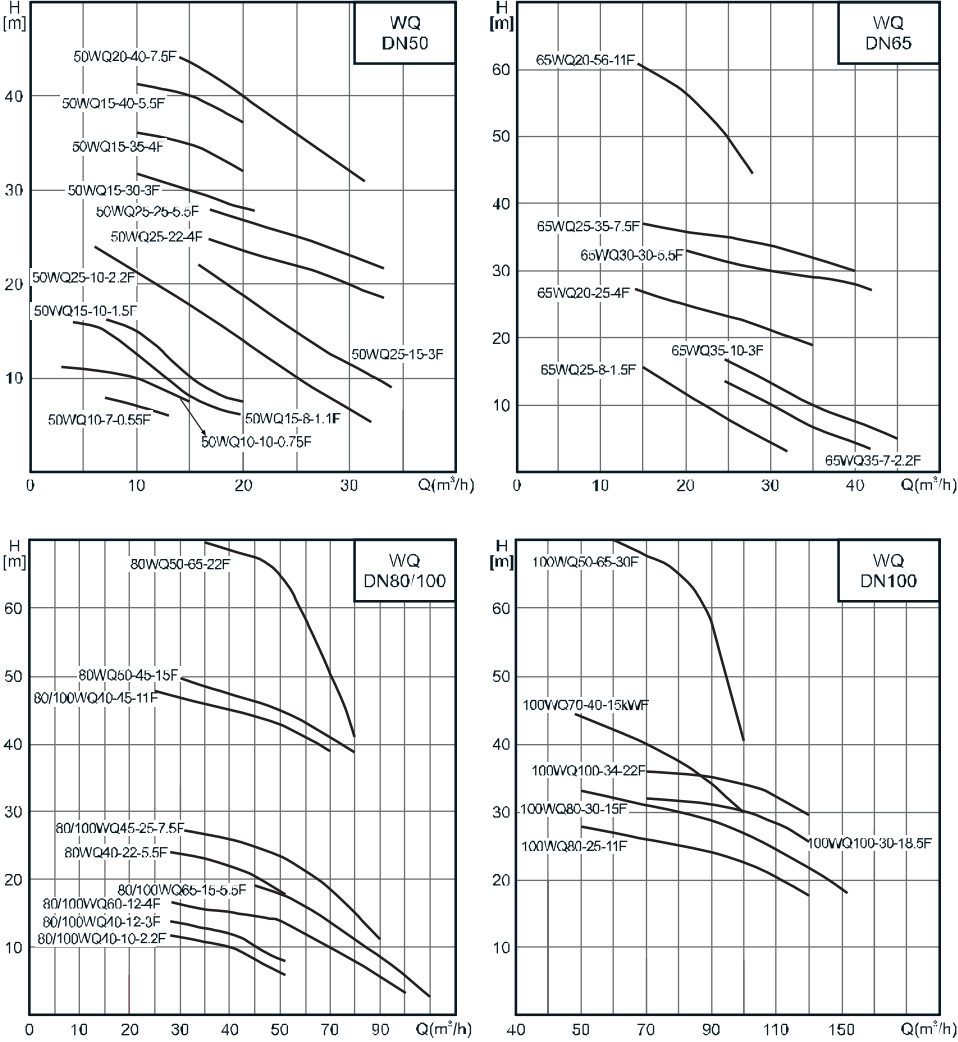
Technical data and dimensions

No.	Model	Diameter (mm)	Q (m³/h)	H (m)	Power (kw)	Speed (rpm)	Voltage (V)	d (mm)	L5	B2	I1	H1	H2	L8	L9	L7	Weight (kg)
37	65WQ20-56-11F	65	20	56	11	2950	380	25	220	350	850	700	185	135	145	150	148
38	80WQ40-45-11F	80	40	45	11			25	250	350	1050	800	156	170	190	200	153
39	100WQ45-40-11F	100	45	40	11			30	325	350	1200	800	210	210	220	230	212
40	100WQ80-25-11F		80	25	11			50	340	380	1200	800	210	210	220	230	280
41	150WQ130-15-11F	150	130	15	11			60	360	380	1200	800	210	210	240	260	290
42	150WQ200-10-11F		200	10	11			60	360	380	1200	800	210	210	240	260	290
43	200WQ300-7-11F	200	300	/	11	2950	380	70	420	380	1350	900	250	230	270	310	300
44	80WQ50-45-15F	80	50	45	15			15	250	440	1050	700	220	180	185	190	200
45	100WQ80-30-15F	100	80	30	15			50	340	380	1200	800	210	210	220	230	330
46	100WQ120-22-15F		120	22	15			50	340	380	1200	800	210	210	220	230	330
47	150WQ150-18-15F	150	150	18	15			60	360	380	1200	800	210	210	240	260	350
48	150WQ200-15-15F		200	15	15			60	360	380	1200	800	210	210	240	260	350
49	100WQ70-40-15F	100	70	40	15	2950	380	15	250	360	1250	800	160	160	170	180	220
50	100WQ100-30-18.5F	100	100	30	18.5			50	385	380	1500	900	210	230	250	270	350
51	150WQ150-22-18.5F		150	150	22			18.5	50	385	380	1500	900	210	230	250	270
52	200WQ250-15-18.5F	200	250	15	18.5			80	450	380	1600	950	250	270	310	350	380
53	200WQ300-12-18.5F		300	12	18.5			80	450	380	1600	950	250	270	310	350	380
54	80WQ50-65-22F	80	50	65	22			2950	380	10	280	300	1300	900	155	160	170
55	100WQ100-31-22F	100	100	31	22	50	385			380	1500	900	210	230	250	270	370
56	150WQ130-30-22F	150	130	30	22	50	385			380	1500	900	210	230	250	270	380
57	200WQ250-17-22F	200	250	17	22	80	450			380	1600	950	250	270	310	350	390
58	200WQ300-15-22F		300	15	22	80	450			380	1600	950	250	270	310	350	390
59	200WQ400-10-22F	200	400	10	22	2950				80	450	380	1600	950	250	270	310
60	100WQ80-65-30F	100	80	65	30			10	280	300	1300	900	155	160	170	180	430
61	150WQ150-30-30F	150	150	30	30			45	380	500	1240	1000	240	240	260	280	455
62	150WQ250-22-30F		250	22	30			45	380	500	1240	1000	240	240	260	280	455
63	200WQ400-18-30F	200	400	18	30			55	380	500	1240	1000	285	260	290	310	475
64	250WQ600-9-30F	250	600	9	30			65	390	500	1290	1050	285	260	290	310	475
65	300WQ900-7-30F	300	900	8	30	980	380	70	580	475	1800	1300	270	315	370	435	700
66	150WQ180-35-37F	150	180	35	37			45	380	500	1240	1000	270	260	280	300	485
67	200WQ400-20-37F	200	400	20	37			50	380	500	1260	1000	285	270	290	310	528
68	200WQ500-17-37F		500	17	37			50	380	500	1260	1000	285	270	290	310	528
69	250WQ600-12-37F	250	600	12	37			65	390	530	1320	1060	330	270	300	330	545
70	150WQ250-25-37F	150	250	25	37			980		80	510	475	1800	1100	290	300	325
71	300WQ900-8-37F	300	900	8	37	70	580			475	1800	1300	270	315	370	435	880
72	150WQ150-48-45F	150	150	48	45	1475		35	460	475	1800	1100	220	260	285	320	950

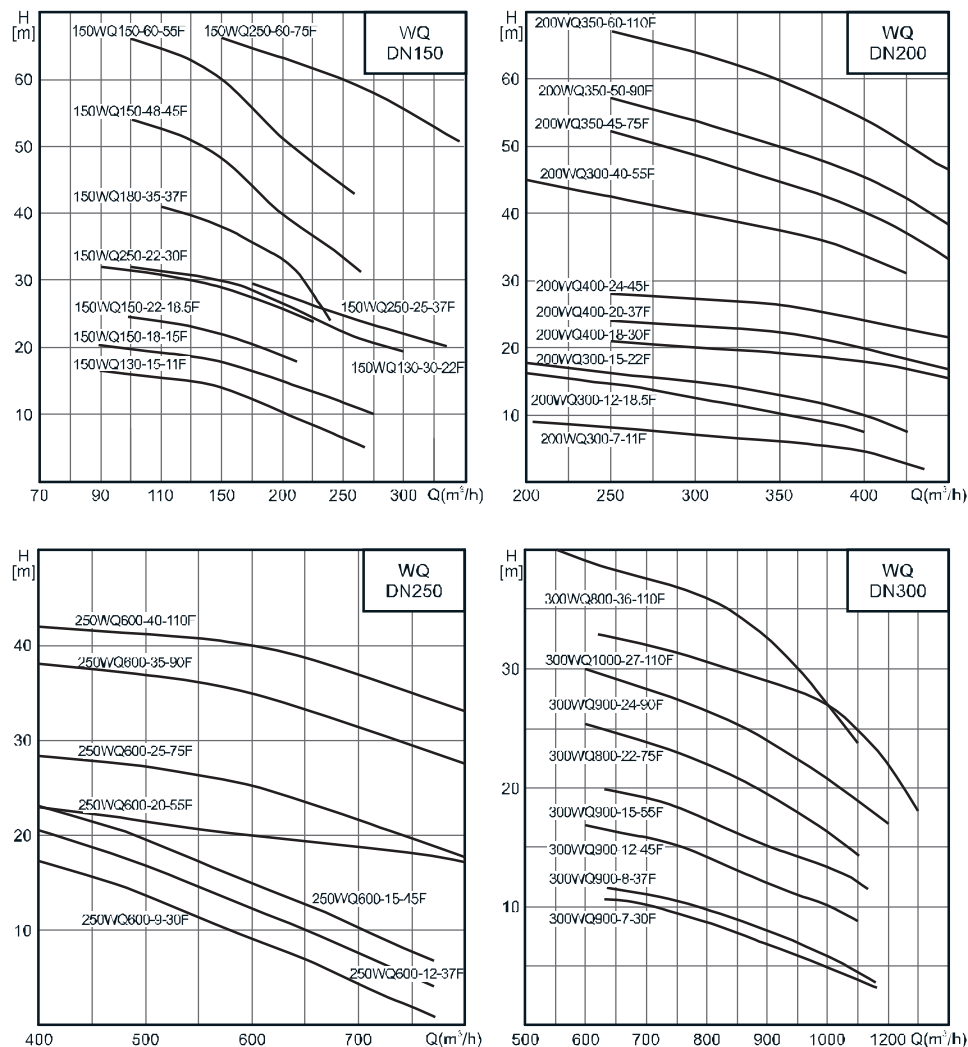
Technical data and dimensions

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)
73	150WQ240-35-45F	150	240	35	45	1475	380	35	460	475	1800	1100	220	260	285	320	950
74	200WQ400-24-45F	200	400	24	45			60	380	500	1320	1100	285	270	290	310	575
75	200WQ500-2-45F		500	22	45			60	380	500	1320	1100	285	270	290	310	575
76	250WQ600-15-45F	250	600	15	45	980	380	75	390	530	1360	1140	330	270	300	330	600
77	300WQ900-12-45F	300	900	12	45			90	600	550	2000	1400	285	350	390	430	1100
78	150WQ150-60-55F	150	150	60	55			35	460	475	1800	1100	220	260	285	320	1350
79	150WQ200-50-55F		200	50	55	1475	380	35	460	475	1800	1100	220	260	285	320	1350
80	200WQ300-40-55F	200	300	40	55			35	460	475	1800	1100	220	260	285	320	1400
81	200WQ400-34-55F		400	34	55			35	460	475	1800	1100	220	260	285	320	1400
82	250WQ600-20-55F	250	600	20	55	980	380	90	570	550	2000	1400	285	310	340	380	1500
83	250WQ800-17-55F		800	17	55			90	600	550	2000	1400	285	350	390	430	1500
84	300WQ900-15-55F	300	900	15	55			90	600	550	2000	1400	285	350	390	430	1600
85	350WQ1200-10-55F	350	1200	10	55	1475	380	90	650	550	2050	1450	315	365	435	510	1700
86	150WQ250-60-75F	150	250	60	75			35	600	550	2050	1300	230	345	385	430	1500
87	200WQ350-45-75F	200	350	45	75			70	700	650	2300	1600	270	420	480	530	1650
88	250WQ600-25-75F	250	600	25	75	980	380	70	700	650	2300	1500	270	420	480	530	1700
89	300WQ800-22-75F	300	800	22	75			150	700	550	2450	1600	370	380	435	490	1750
90	350WQ1200-15-75F	350	1200	15	75			35	600	550	2050	1300	230	345	385	430	1500
91	200WQ350-50-90F	200	350	50	90	1475	380	35	630	650	2300	1500	270	370	420	450	1750
92	250WQ600-35-90F	250	600	35	90			70	700	650	2300	1500	270	420	480	530	1800
93	300WQ900-24-90F	300	900	24	90			150	700	550	2450	1600	370	380	435	490	1900
94	350WQ1200-18-90F	350	1200	18	90	980	380	150	750	550	2450	1700	370	380	435	490	2000
95	400WQ1800-13-90F	400	1800	13	90			35	600	550	2100	1400	230	355	400	440	1600
96	200WQ350-60-110F	200	350	60	110	1475	380	35	630	650	2300	1700	270	370	420	450	2000
97	250WQ600-40-110F	250	600	40	110			35	630	650	2300	1700	270	390	435	490	2100
98	300WQ800-36-110F	300	800	36	110			35	700	650	2450	1700	270	420	480	530	2100
99	300WQ1000-27-110F	300	1000	27	110	980	380	150	700	550	2450	1800	370	380	435	490	2200
100	350WQ1200-20-110F	350	1200	20	110			150	700	550	2450	1800	370	380	435	490	2200
101	400WQ1900-15-110F	400	1900	15	110			150	700	550	2450	1900	370	380	435	490	2300

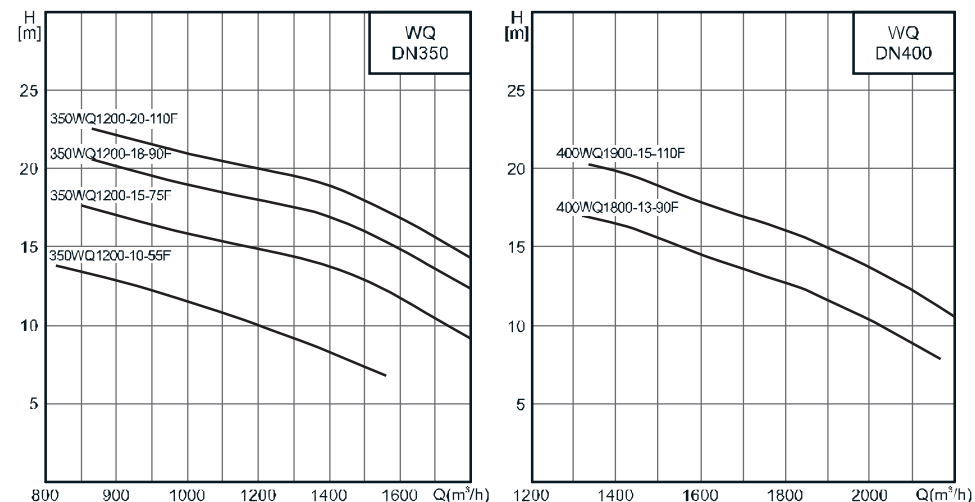
Performance curve



Performance curve



Performance curve



Summary

NH 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, float dust, metal particle, direct sunlight, high temperature, dust fall, corrosive gas, flammable gas or liquid.

Situation with no significant shake, shock and vibration.

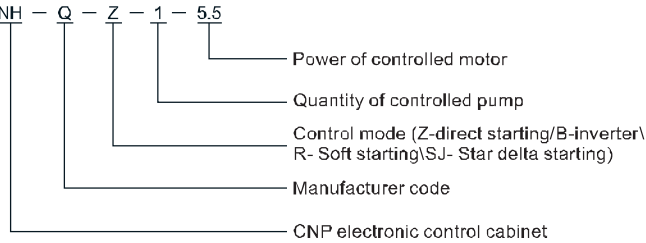
Sweep condensation on product's surface which caused by temperature variation.

Vertical installation.

Power requirement

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

Definition of model



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 Sealing 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.