

# DRAKOS PUMPS

Type: SPV  
Vertical Submersible Pump  
Model: YW Series



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## **Product Description**

YW Series vertical submersible pump is a new and patented product latest developed by DRAKOS PUMPS especially for transport various sewages under harsh working conditions and made by way of, on the basis of the existing first generation product, absorbing the advanced technology and using WQ series submersible pump's hydraulic model of the most excellent performance at present.

YW series vertical submersible pump not only has the all superior performance of the WQ series submersible sewage pump but also greatly opens out the applicable working condition and field of use of the latter due to its unique form of installation.

## **Advantages**

YW series vertical submersible pump is designed by taking durability easy use stability, reliability and free of maintenance as the target and has the following advantages:

- 1) The uniquely designed, double-great impeller is high effective without block-up the pump casing etc. flow through parts optimized designed for completing with the impeller can be selected with their materials and models upon the transported media and can be made sure of the excellent hydraulic performance and working life in the transportation of the media containing suspended grains and long fibers, corrosive and abrasive.

The great is wide and smooth and is suitable to transport the solid grain of diameter 50% of the pump aperture.

The motor is not place under water and the cable as well. Able to transport and suck the sewage of a temperature 80° C and below ultimately satisfying the applicable occasion or the requirement of use of dirty and oil resistance, wear ability and with a higher temperature.

- 2) Easy to use and long durability

The impeller is submerged in water and easy to start.

An automatic liquid level control panel can fitted with if required by users so as to get the liquid level to control the pump's start and stop without the need of a special person to look after.

Solid maintenance free design, good rigidity of the pump shaft and fully closed roller bearing of famous brand. The pre-injected high temperature withstanding lubricating grease makes no injection necessary during use. Stable running and low noise. Both bearing and pump's main shaft system are completely isolated by the shaft seal system and cannot contact with the transported medium so as to ensure the designed running life of the bearing.

Double mechanical seals in series are used as the mechanical seal to provide a double protection and the frictional secondary one is a spiral seal made of anti-corrosive sintered tungsten carbide or silicon carbide or silicon carbide and of a special structure and can be thus be ensured to continuously run without leakage.

O seal ring is used as the static seal, it settles the problem of leakage and greatly enhances the pump's life.

### 3) Stable, durable without vibration

The pump is vertically structured, the drive unit (motor stand, clutch, drive shaft, connecting stand, bearing) is modular designed and can be superposed at will along with the variation of the under water depth. Both pump casing and impeller can be placed under liquid by 0.5m to 10m and the motor above the liquid surface, then via connection with the drive unit, directly drives the non-block impeller to stably run without vibration.

At the pump's inlet suck in barrel is set, its exquisite design makes the sucked liquid's level as deep as possible, without block-up and with a good anti twine sewage removal property.

The pump can be used with common motor and if fitted with outdoor type motor, it can be avoided to build a pump house, reducing the investment for construction, and the motor can be mounted on the ground, leaving a convenient operation, overhaul and maintenance.

An elastic cylindrical pin clutch is used to link both main shaft and drive shaft, which has the margin compensation for relative offset between both shafts and the general shock reduction and buffering performance so as to make the pump stably run without vibration and with low noise. The submersible depth can be made completely according to the requirement of customers.

## Application

Suitable for steel works, power plant, coal works, mine, hospital, municipal works, chemical industry, medicine, building, hotel, sea water suction and drainage etc. trade to transport the industrial sewage with grains and fibers, the city's living sewage or rain water and pure water and also for some flow processes of chemical industry.

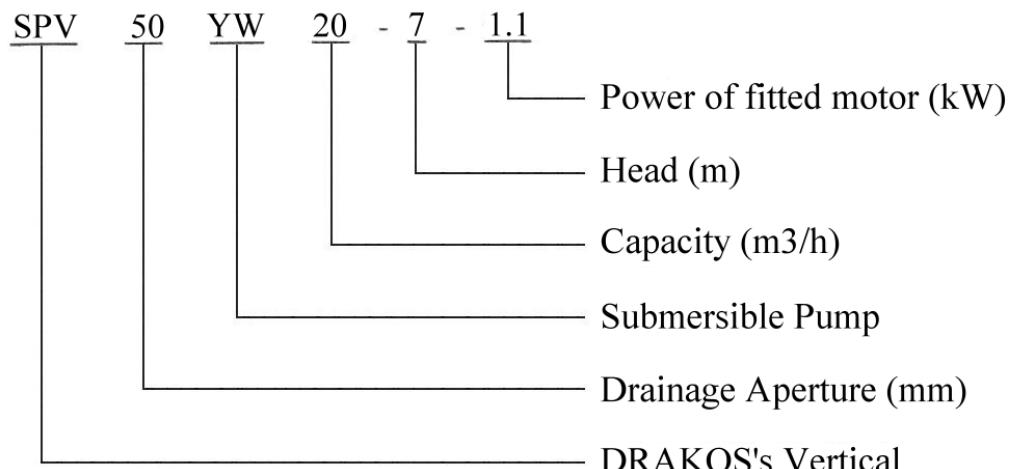
## Conditions of Use

- The medium temperature not over 80° C
- The medium density  $<1.2 \times 10^3 \text{kg/m}^3$ .  
For medium density  $>1.2 \times 10^3 \text{kg/m}^3$ , please confirm directly with the person in charge when ordering the pump.
- The medium's PH valve between 5 to 11.

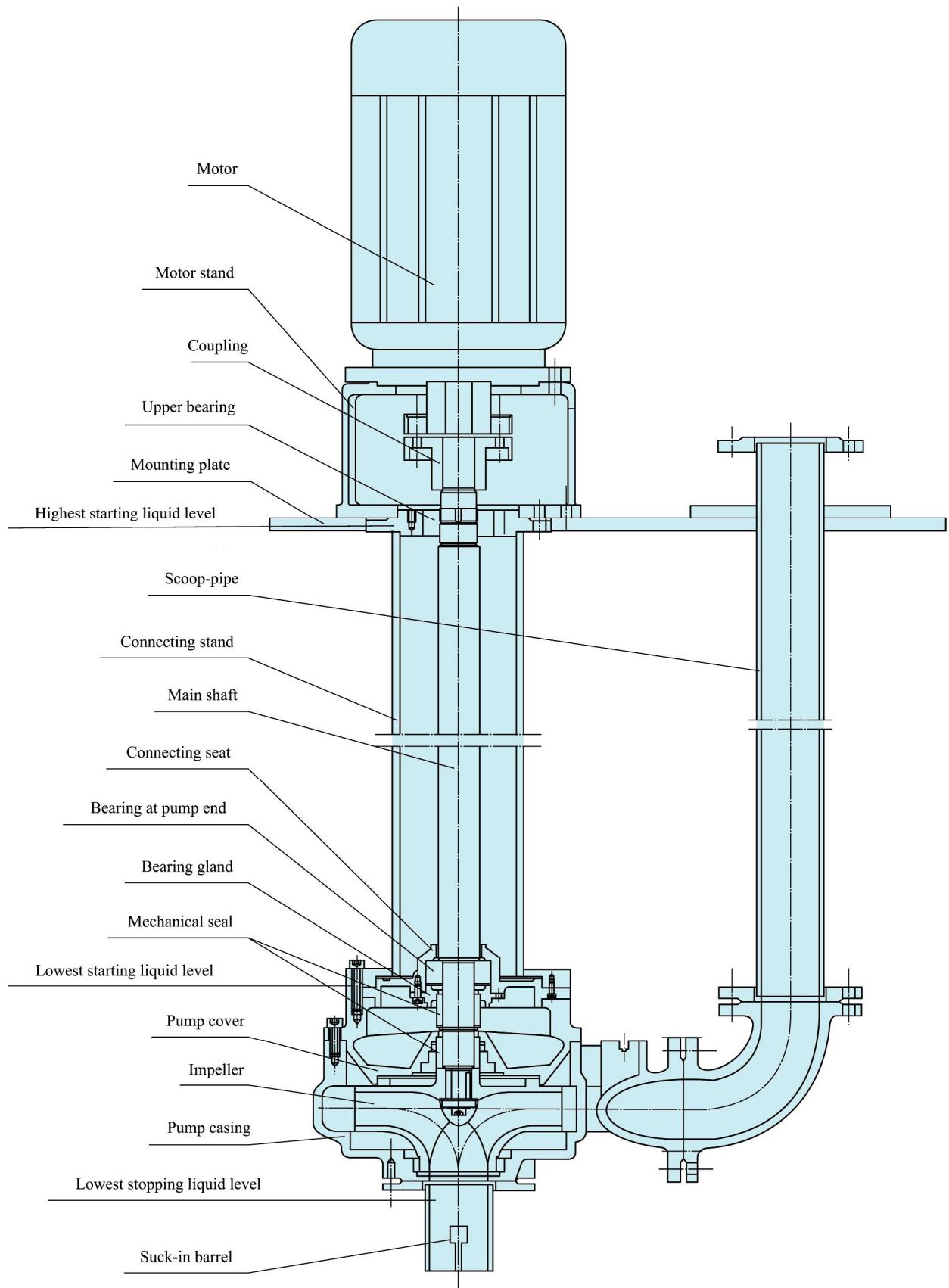
## **Main Parts' Materials of the Ordinary Pumps**

Name of Parts	Material
Pump Casing, Impeller, Pump Cover, Connecting Seat, Bearing Gland	Cast Iron
Shaft	Stainless Steel
Connecting Stand, Scoop Pipe	Steel
Suck in Barrel	Steel
Mechanical Seal	Silicon Carbide / Tungsten Carbide
Fastener	Stainless Steel

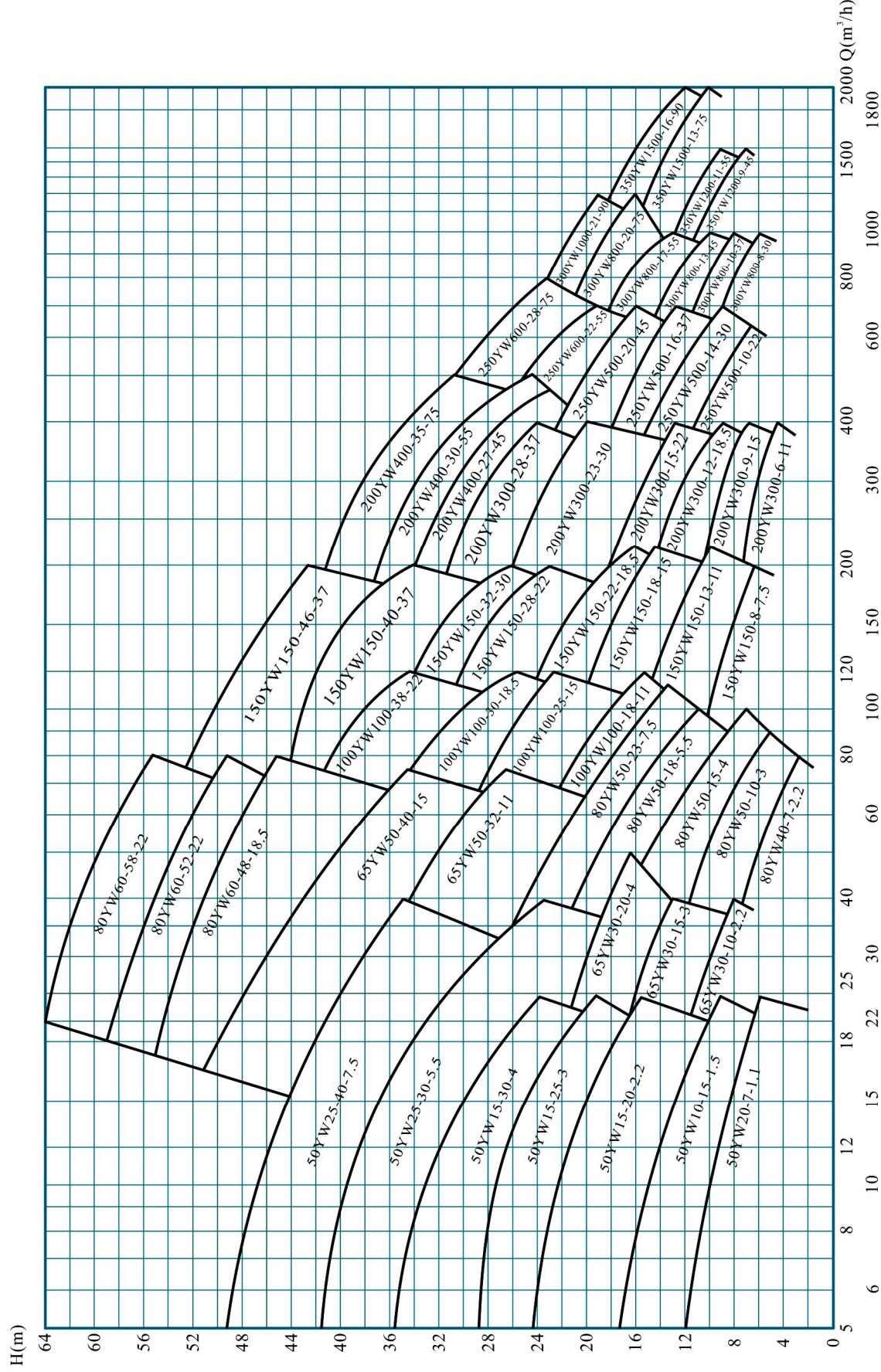
## **Definition of Model**



## Structure Drawing



# Atlas of Style



## **Performance Parameters Table**

No	Model	Outlet Diameter (mm)	Capacity (m³/h)	Head (m)	Speed (rpm)	Power (kW)
1	25YW8-10-0.75	25	6	12	2840	0.75
			8	10		
			12	7		
2	32YW8-12-1.1	32	6	14	2840	1.1
			8	12		
			12	9		
3	50YW207-1.1	50	15	8	1410	1.1
			20	7		
			25	6		
4	50YW10-15-1.5	50	8	16	2840	1.5
			10	15		
			15	13		
5	50YW15-20-2.2	50	10	22	2840	2.2
			15	20		
			25	16		
6	50YW15-25-3	50	10	27	2840	3
			15	25		
			25	19		
7	50YW15-30-4	50	10	33	2840	4
			15	30		
			25	24		
8	50YW25-30-5.5	50	20	33	2900	5.5
			25	30		
			40	23		
9	50YW25-40-7.5	50	20	42	2900	7.5
			30	40		
			40	35		
10	65YW30-10-2.2	65	20	12	1420	2.2
			30	10		
			40	8		
11	65YW30-15-3	65	20	17	1420	3
			30	15		
			40	13		
12	65YW30-20-4	65	20	22	2880	4
			30	20		
			45	17		
13	65YW30-30-5.5	65	20	32	2900	5.5
			30	30		
			45	22		
14	65YW30-35-7.5	65	20	37	2900	7.5
			30	35		
			45	30		
15	65YW50-32-11	65	40	34	2900	11
			50	32		
			75	37		
16	65YW50-40-15	65	40	43	2900	15
			50	40		
			75	35		
17	80YW40-7-2.2	80	30	8	1420	2.2
			40	7		
			60	5		
18	80YW50-10-3	80	40	12	1420	3
			50	10		
			75	7		

## **Performance Parameters Table**

No	Model	Outlet Diameter (mm)	Capacity (m³/h)	Head (m)	Speed (rpm)	Power (kW)
19	80YW50-15-4	80	40	17	1440	4
			50	15		
			75	11		
20	80YW50-18-5.5	80	40	21	1440	5.5
			50	18		
			75	15		
21	80YW50-23-7.5	80	40	25	1440	7.5
			50	23		
			75	19		
22	80YW60-48-18.5	80	50	51	2900	18.5
			60	48		
			80	45		
23	80YW60-52-22	80	40	55	2900	22
			60	52		
			80	49		
24	80YW60-58-22	80	40	61	2900	22
			60	58		
			80	55		
25	100YW80-7-3	100	65	8	1440	3
			80	7		
			125	5		
26	100YW80-10-4	100	65	12	1440	4
			80	10		
			125	7		
27	100YW80-13-5.5	100	65	15	1440	5.5
			80	13		
			125	10		
28	100YW80-18-7.5	100	65	21	1440	7.5
			80	18		
			125	13		
29	100YW100-18-11	100	80	21	2900	11
			100	18		
			120	15		
30	100YW100-25-15	100	80	27	2900	15
			100	25		
			120	23		
31	100YW100-30-18.5	100	80	34	2900	18.5
			100	30		
			120	26		
32	100YW100-38-22	100	80	41	2900	22
			100	38		
			120	34		
33	150YW150-8-7.5	150	100	9	1460	7.5
			150	7		
			200	5		
34	150YW150-7-5.5	150	100	9	1440	7.5
			150	7		
			200	5		
35	150YW150-13-11	150	120	15	1460	11
			150	13		
			220	10		
36	150YW150-18-15	150	120	20	1460	15
			150	18		
			200	15		

## **Performance Parameters Table**

No	Model	Outlet Diameter (mm)	Capacity (m <sup>3</sup> /h)	Head (m)	Speed (rpm)	Power (kW)
37	150YW150-22-18.5	150	120	24	1460	18.5
			150	22		
			220	16		
38	150YW150-28-22	150	120	30	1460	22
			150	28		
			220	23		
39	150YW150-32-30	150	120	34	1460	30
			150	32		
			200	26		
40	150YW150-40-37	150	80	44	1460	37
			150	40		
			200	34		
41	150YW150-46-37	150	80	52	1460	37
			150	46		
			200	43		
42	150YW150-50-45	150	100	52	1470	45
			150	50		
			200	47		
43	150YW100-60-55	150	80	62	1470	55
			100	60		
			150	56		
44	200YW300-6-11	200	200	7	1460	11
			300	6		
			400	5		
45	200YW300-9-15	200	220	10	1460	15
			300	9		
			400	7		
46	200YW300-12-18.5	200	220	14	1470	18.5
			300	12		
			400	9		
47	200YW300-15-22	200	200	18	1470	22
			300	15		
			400	13		
48	200YW300-20-30	200	200	23	980	30
			300	20		
			400	17		
49	200YW30-25-37	200	200	27	980	37
			300	25		
			400	21		
50	200YW400-27-45	200	200	34	1480	45
			400	27		
			500	21		
51	200YW400-30-55	200	200	37	1480	55
			400	30		
			500	24		
52	200YW400-35-75	200	200	41	1480	75
			400	35		
			500	31		
53	250YW500-10-22	250	400	11	1470	22
			500	10		
			600	7		

## Performance Parameters Table

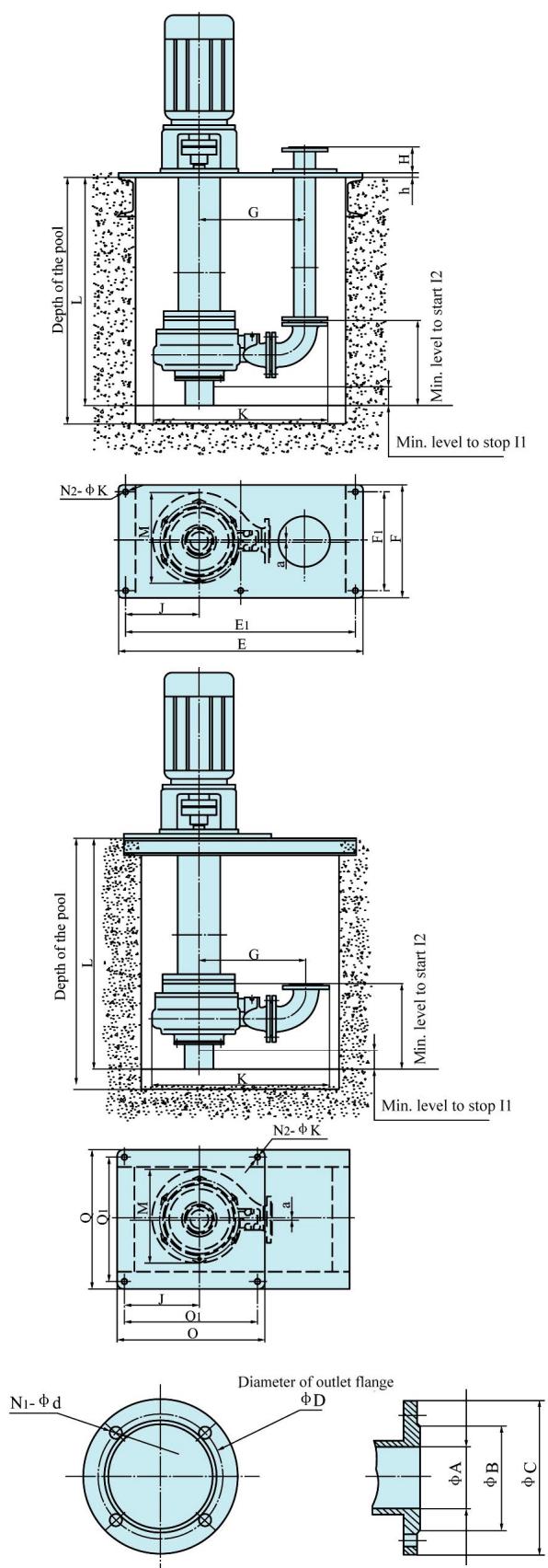
No	Model	Outlet Diameter (mm)	Capacity (m³/h)	Head (m)	Speed (rpm)	Power (kW)
54	250YW500-14-30	250	400	15	980	30
			500	14		
			700	9		
55	250YW500-16-37	250	400	18	980	37
			500	16		
			700	13		
56	250YW500-20-45	250	400	22	980	45
			500	20		
			700	16		
57	250YW600-22-55	250	500	25	980	55
			600	22		
			700	19		
58	250YW600-28-75	250	500	31	1480	75
			600	28		
			800	23		
59	300YW800-8-30	300	700	9	980	30
			800	8		
			1000	6		
60	300YW800-10-37	300	700	11	980	37
			800	10		
			1000	8		
61	300YW800-13-45	300	700	14	980	45
			800	13		
			1000	10		
62	300YW800-17-55	300	700	18	980	55
			800	17		
			1000	13		
63	300YW800-20-75	300	700	21	1480	75
			800	20		
			1000	16		
64	300YW1000-21-90	300	800	23	1480	90
			1000	21		
			1200	19		
65	350YW1200-9-45	350	1000	11	745	45
			1200	9		
			1500	7		
66	350YW1200-11-55	350	1000	13	745	55
			1200	11		
			1500	9		
67	350YW1500-13-75	350	1200	15	990	75
			1500	13		
			2000	10		
68	350YW1500-16-90	350	1200	18	990	90
			1500	16		
			2000	12		

## Installation Dimension

No	Model	Outlet Flange					Double Pipe Installation		Single Pipe Installation	
		Ø A	Ø B	Ø C	Ø D	N1-Ød	E x F	E1 x F1	O x Q	O1 x Q1
1	25YW8-10-0.75	25	60	100	75	4-Ø13.5	600 x 350	550 x 300	450 x 400	400 x 350
2	32YW8-12-1.1	32	70	120	90	4-Ø13.5	600 x 350	550 x 300	450 x 400	400 x 350
3	50YW207-1.1	50	90	140	110	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
4	50YW10-15-1.5	50	90	140	110	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
5	50YW15-20-2.2	50	90	140	110	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
6	50YW15-25-3	50	90	140	110	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
7	50YW15-30-4	50	90	140	110	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
8	50YW25-30-5.5	50	90	140	110	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
9	50YW25-40-7.5	50	90	140	110	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
10	65YW30-10-2.2	65	110	160	130	4-Ø13.5	780 x 420	720 x 360	500 x 480	440 x 420
11	65YW30-15-3	65	110	160	130	4-Ø13.5	780 x 420	720 x 360	500 x 480	440 x 420
12	65YW30-20-4	65	110	160	130	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
13	65YW30-30-5.5	65	110	160	130	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
14	65YW30-35-7.5	65	110	160	130	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
15	65YW50-32-11	65	110	160	130	4-Ø13.5	780 x 420	720 x 360	500 x 480	440 x 420
16	65YW50-40-15	65	110	160	130	4-Ø13.5	780 x 420	720 x 360	500 x 480	440 x 420
17	80YW40-7-2.2	80	128	190	150	4-Ø17.5	850 x 450	790 x 390	530 x 500	470 x 440
18	80YW50-10-3	80	128	190	150	4-Ø17.5	850 x 450	790 x 390	530 x 500	470 x 440
19	80YW50-15-4	80	128	190	150	4-Ø17.5	850 x 450	790 x 390	530 x 500	470 x 440
20	80YW50-18-5.5	80	128	190	150	4-Ø17.5	900 x 500	840 x 440	580 x 540	520 x 480
21	80YW50-23-7.5	80	128	190	150	4-Ø17.5	900 x 500	840 x 440	580 x 540	520 x 480
22	80YW60-48-18.5	80	128	190	150	4-Ø17.5	850 x 450	790 x 390	530 x 500	470 x 440
23	80YW60-52-22	80	128	190	150	4-Ø17.5	850 x 450	790 x 390	530 x 500	470 x 440
24	80YW60-58-22	80	128	190	150	4-Ø17.5	850 x 450	790 x 390	530 x 500	470 x 440
25	100YW80-7-3	100	148	210	170	4-Ø17.5	880 x 460	820 x 400	530 x 500	470 x 440
26	100YW80-10-4	100	148	210	170	4-Ø17.5	880 x 460	820 x 400	530 x 500	470 x 440
27	100YW80-13-5.5	100	148	210	170	4-Ø17.5	900 x 500	840 x 440	580 x 540	520 x 480
28	100YW80-18-7.5	100	148	210	170	4-Ø17.5	900 x 500	840 x 440	580 x 540	520 x 480
29	100YW100-18-11	100	148	210	170	4-Ø17.5	880 x 460	820 x 400	560 x 520	500 x 460

## Installation Dimension

G	M	K	a	H	h	J	N2-ØK	I1	I2
210	187	274	-	100	12	205	4-Ø20	80	250
210	187	274	-	100	12	205	4-Ø20	80	250
325	245	520	-	100	12	205	4-Ø15	80	250
325	245	520	-	100	12	205	4-Ø15	80	250
325	245	520	-	100	12	205	4-Ø15	80	250
325	245	520	-	100	12	205	4-Ø15	80	250
325	245	520	-	100	12	205	4-Ø15	80	250
325	245	520	-	100	12	205	4-Ø15	80	250
325	245	520	-	100	12	205	4-Ø15	80	250
325	245	520	-	100	12	205	4-Ø15	80	250
370	325	632	-	100	12	210	4-Ø20	100	300
370	325	632	-	100	12	210	4-Ø20	100	300
355	245	520	-	100	12	205	4-Ø20	100	300
355	245	520	-	100	12	205	4-Ø20	100	300
355	245	520	-	100	12	205	4-Ø20	100	300
370	325	612	-	100	12	210	4-Ø20	100	300
370	325	612	-	100	12	210	4-Ø20	100	300
430	353	699	-	100	12	210	4-Ø20	120	350
430	353	699	-	100	12	210	4-Ø20	120	350
430	353	699	-	100	12	210	4-Ø20	120	350
450	390	748	-	100	12	245	4-Ø20	120	350
450	390	740	-	100	12	245	4-Ø20	120	350
430	324	612	-	100	12	210	4-Ø20	100	350
430	324	612	-	100	12	210	4-Ø20	100	350
430	324	612	-	100	12	210	4-Ø20	100	350
440	370	720	-	100	12	210	4-Ø20	150	400
440	370	720	-	100	12	210	4-Ø20	150	400
460	390	760	-	100	12	245	4-Ø20	150	400
460	390	760	-	100	12	245	4-Ø20	150	400
440	370	720	-	100	12	225	4-Ø25	150	400



## Installation Dimension

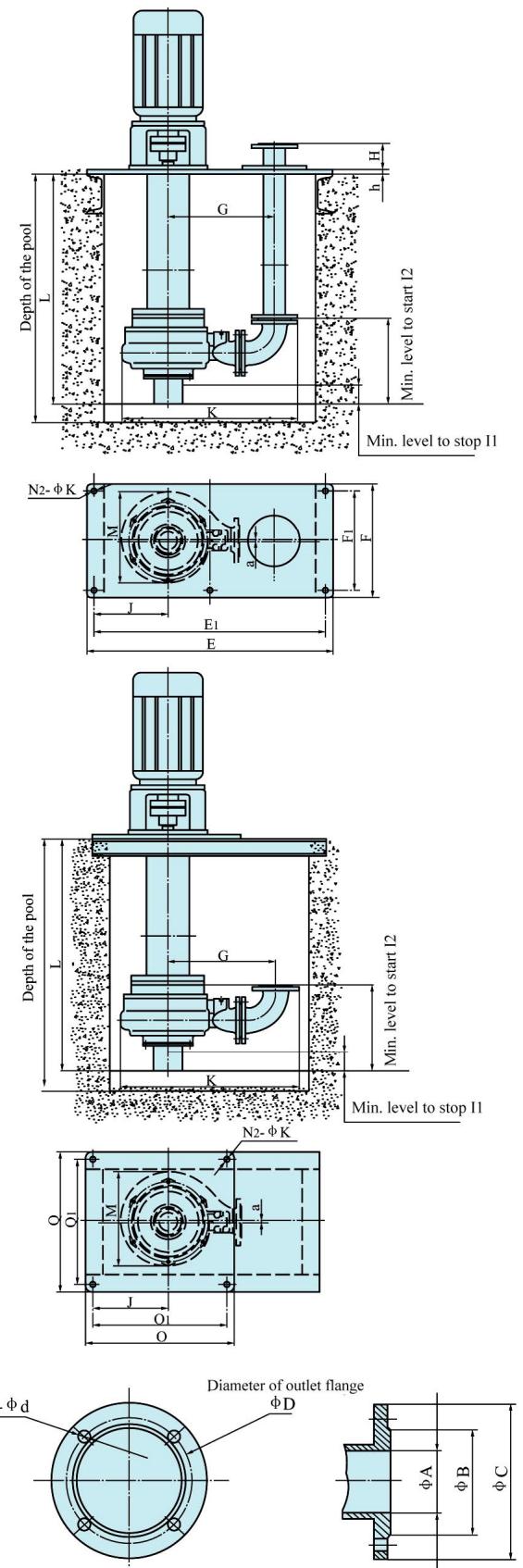
No	Model	Outlet Flange					Double Pipe Installation		Single Pipe Installation	
		Ø A	Ø B	Ø C	Ø D	N1-Ød	E x F	E1 x F1	O x Q	O1 x Q1
30	100YW100-25-15	100	148	210	170	4-Ø17.5	880 x 460	820 x 400	560 x 520	500 x 460
31	100YW100-30-18.5	100	148	210	170	4-Ø17.5	880 x 460	820 x 400	560 x 520	500 x 460
32	100YW100-38-22	100	148	210	170	4-Ø17.5	880 x 460	820 x 400	560 x 520	500 x 460
33	150YW150-7-7.5	150	202	265	225	8-Ø17.5	1050 x 550	990 x 490	650 x 610	590 x 550
34	150YW150-8-7.5	150	202	265	225	8-Ø17.5	1050 x 550	990 x 490	650 x 610	590 x 550
35	150YW150-13-11	150	202	265	225	8-Ø17.5	1050 x 550	990 x 490	650 x 610	590 x 550
36	150YW150-18-15	150	202	265	225	8-Ø17.5	1050 x 550	990 x 490	650 x 610	590 x 550
37	150YW150-22-18.5	150	202	265	225	8-Ø17.5	1200 x 650	1140 x 590	750 x 710	690 x 650
38	150YW150-28-22	150	202	265	225	8-Ø17.5	1200 x 650	1140 x 590	750 x 710	690 x 650
39	200YW300-6-11	200	260	320	280	8-Ø17.5	1050 x 550	990 x 490	650 x 610	590 x 550
40	200YW300-9-15	200	260	320	280	8-Ø17.5	1050 x 550	990 x 490	650 x 610	590 x 550
41	200YW300-12-18.5	200	260	320	280	8-Ø17.5	1200 x 650	1140 x 590	750 x 710	690 x 650
42	200YW300-15-22	200	260	320	280	8-Ø17.5	1200 x 650	1140 x 590	750 x 710	690 x 650
43	250YW500-10-22	250	312	335	335	12-Ø17.5	1330 x 680	1270 x 620	790 x 740	730 x 680

Remark: 1) L = 0.5m ~ 10m

2) For pump length 5m and above under liquid will be separately shipped and installed at the site.

## Installation Dimension

G	M	K	a	H	h	J	N2-ØK	I1	I2
440	370	720	-	100	12	225	4-Ø25	150	400
440	370	720	-	100	12	235	4-Ø25	150	400
440	370	720	-	100	12	235	4-Ø25	150	400
550	453	910	-	190	12	260	4-Ø25	250	450
550	453	910	-	190	12	260	4-Ø25	250	450
550	453	910	-	190	12	260	4-Ø25	250	450
550	457	910	-	190	12	260	4-Ø25	250	450
600	387	720	-	190	12	300	4-Ø25	250	450
600	387	720	-	190	12	300	4-Ø25	250	450
550	556	1070	-	200	20	310	4-Ø25	300	500
550	556	1070	-	200	20	310	4-Ø25	300	500
650	556	1070	-	200	20	310	4-Ø25	300	500
650	556	1070	-	200	20	310	4-Ø25	300	500
720	586	1160	-	215	20	330	4-Ø25	350	550



## Installation Dimension

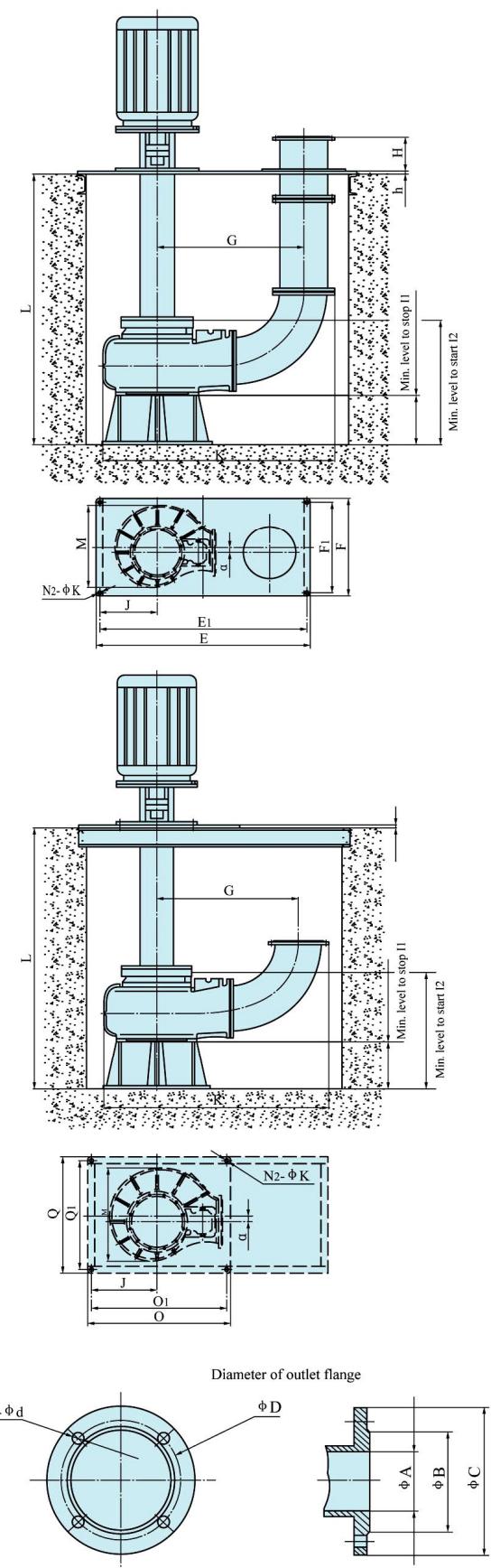
No	Model	Outlet Flange					Double Pipe Installation		Single Pipe Installation	
		Ø A	Ø B	Ø C	Ø D	N1-Ød	E x F	E1 x F1	O x Q	O1 x Q1
1	150YW150-32-30	150	202	265	225	8-Ø17.5	1200 x 650	1140 x 590	750 x 710	690 x 650
2	150YW150-40-37	150	202	265	225	8-Ø17.5	1400 x 780	1130 x 710	900 x 850	830 780
3	150YW150-46-37	150	202	265	225	8-Ø17.5	1400 x 780	1130 x 710	900 x 850	830 780
4	150YW100-50-45	150	202	265	225	8-Ø17.5	1400 x 780	1130 x 710	900 x 850	830 780
5	150YW150-60-55	150	202	265	225	8-Ø17.5	1400 x 780	1130 x 710	900 x 850	830 780
6	200YW300-23-30	200	260	320	280	8-Ø17.5	1400 x 780	1130 x 710	900 x 850	830 780
7	200YW300-28-37	200	260	320	280	8-Ø17.5	1400 x 780	1130 x 710	900 x 850	830 780
8	200YW400-27-45	200	260	320	280	8-Ø17.5	1400 x 780	1130 x 710	900 x 850	830 780
9	200YW400-30-55	200	260	320	280	8-Ø17.5	1400 x 780	1130 x 710	900 x 850	830 780
10	200YW400-35-75	200	260	320	280	8-Ø17.5	1400 x 780	1130 x 710	900 x 850	830 780
11	250YW500-14-30	250	312	375	335	12-Ø17.5	1520 x 820	1450 x 750	1000 x 880	930 x 810
12	250YW500-16-37	250	312	375	335	12-Ø17.5	1520 x 820	1450 x 750	1000 x 880	930 x 810
13	250YW500-20-45	250	312	375	335	12-Ø17.5	1520 x 820	1450 x 750	1000 x 880	930 x 810
14	250YW600-22-55	250	312	375	335	12-Ø17.5	1520 x 820	1450 x 750	1000 x 880	930 x 810
15	250YW600-28-75	250	312	375	335	12-Ø17.5	1520 x 820	1450 x 750	1000 x 880	930 x 810
16	300YW800-8-30	300	365	440	395	12-Ø22	1650 x 930	1580 x 860	1050 x 980	980 x 910
17	300YW800-10-37	300	365	440	395	12-Ø22	1650 x 930	1580 x 860	1050 x 980	980 x 910
18	300YW800-13-45	300	365	440	395	12-Ø22	1650 x 930	1580 x 860	1050 x 980	980 x 910
19	300YW800-17-55	300	365	440	395	12-Ø22	1650 x 930	1580 x 860	1050 x 980	980 x 910
20	300YW800-20-75	300	365	440	395	12-Ø22	1650 x 930	1580 x 860	1050 x 980	980 x 910
21	300YW1000-21-90	300	365	440	395	12-Ø22	1650 x 930	1580 x 860	1050 x 980	980 x 910
22	350YW1200-9-45	350	415	490	445	12-Ø22	1800 x 970	1730 x 900	1100 x 1020	1030 x 850
23	350YW1200-11-55	350	415	490	445	12-Ø22	1800 x 970	1730 x 900	1100 x 1020	1030 x 850
24	350YW1500-13-75	350	415	490	445	12-Ø22	1800 x 970	1730 x 900	1100 x 1020	1030 x 850
25	350YW1500-16-90	350	415	490	445	12-Ø22	1800 x 970	1730 x 900	1100 x 1020	1030 x 850

Remark: 1) L = 0.5m ~ 10m

2) For pump length 5m and above under liquid will be separately shipped and installed at the site.

## Installation Dimension

G	M	K	a	H	h	J	N2-ØK	I1	I2
600	603	1080	-	190	20	300	4-Ø25	250	450
650	603	1080	-	190	20	300	4-Ø25	250	450
650	603	1080	-	190	20	300	4-Ø25	250	450
650	603	1080	-	190	20	400	4-Ø30	250	450
650	603	1080	-	190	20	400	4-Ø30	250	450
750	685	1232	30	200	20	410	4-Ø30	300	550
750	685	1232	30	200	20	410	4-Ø30	300	550
750	685	1232	30	200	20	410	4-Ø30	300	550
750	685	1232	30	200	20	410	4-Ø30	300	550
850	720	1356	45	215	20	410	4-Ø30	350	600
850	720	1356	45	215	20	410	4-Ø30	350	600
850	720	1356	45	215	20	410	4-Ø30	350	600
850	806	1356	45	250	20	410	4-Ø30	350	600
850	806	1356	45	250	20	410	4-Ø30	350	600
900	824	1500	60	250	20	455	4-Ø30	450	700
900	824	1500	60	250	20	455	4-Ø30	450	700
900	824	1500	60	250	20	455	4-Ø30	450	700
900	824	1500	60	250	20	455	4-Ø30	450	700
900	824	1500	60	250	20	455	4-Ø30	450	700
900	824	1500	60	250	20	455	4-Ø30	450	700
950	865	1630	65	280	20	475	4-Ø30	500	850
950	865	1630	65	280	20	475	4-Ø30	500	850
950	865	1630	65	280	20	475	4-Ø30	500	850
950	865	1630	65	280	20	475	4-Ø30	500	850



## **Performance Parameters Table**

### **YWP Series Stainless Steel**

No	Model	Outlet Diameter (mm)	Capacity (m <sup>3</sup> /h)	Head (m)	Speed (rpm)	Power (kW)
1	50YWP15-8-1.1	50	10	9	2900	1.1
			15	8		
			20	6		
2	50YWP20-7-1.5	50	15	8	2900	1.5
			20	7		
			25	6		
3	50YWP10-15-2.2	50	8	16	2900	2.2
			10	15		
			15	13		
4	50YWP15-20-3	50	10	22	2900	3
			15	20		
			25	16		
5	50YWP15-25-4	50	10	27	2900	4
			15	25		
			25	19		
6	50YWP15-30-5.5	50	10	33	2900	5.5
			15	30		
			25	24		
7	50YWP25-30-7.5	50	20	33	2900	7.5
			25	30		
			40	23		
8	50YWP25-40-11	50	20	42	2900	11
			25	40		
			40	35		
9	65YWP30-10-3	65	20	12	2900	3
			30	10		
			40	8		
10	65YWP30-15-4	65	20	17	2900	4
			30	15		
			40	13		
11	65YWP30-20-4	65	20	22	2900	4
			30	20		
			45	17		
12	65YWP50-32-15	65	40	34	2900	15
			50	32		
			75	27		
13	65YWP50-40-18.5	65	40	43	2900	18.5
			50	40		
			75	35		
14	80YWP40-7-3	80	30	8	2900	3
			40	7		
			60	5		
15	80YWP50-10-4	80	40	12	2900	4
			50	10		
			75	7		

**Performance Parameters Table**  
**YWP Series Stainless Steel**

No	Model	Outlet Diameter (mm)	Capacity (m <sup>3</sup> /h)	Head (m)	Speed (rpm)	Power (kW)
16	80YWP50-15-5.5	80	40	17	2900	5.5
			50	15		
			75	11		
17	80YWP50-18-7.5	80	40	21	2900	7.5
			50	18		
			75	15		
18	80YWP50-23-11	80	40	25	2900	11
			50	23		
			75	19		
19	100YWP100-18-15	100	80	21	2900	15
			100	18		
			120	15		
20	100YWP100-25-18.5	100	80	27	2900	18.5
			100	25		
			120	23		

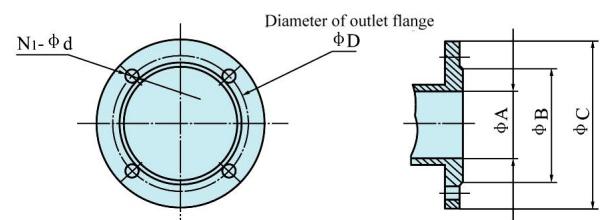
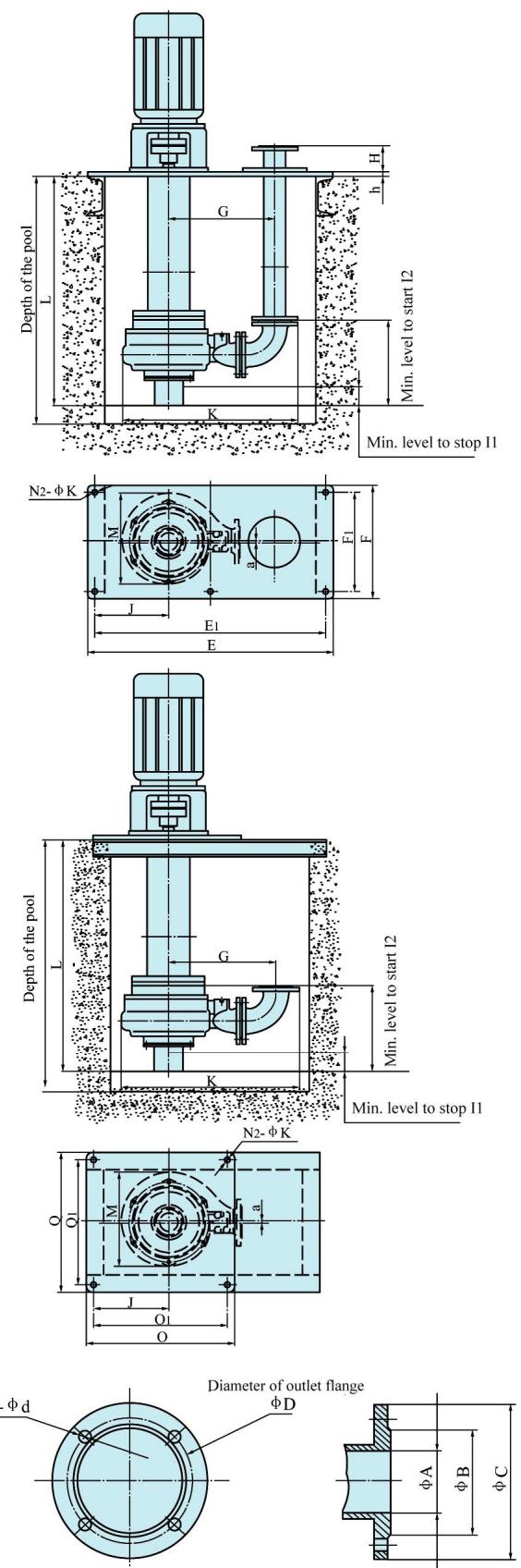
## **Installation Dimension**

### **YWP Series Stainless Steel**

No	Model	Outlet Flange					Double Pipe Installation		Single Pipe Installation	
		Ø A	Ø B	Ø C	Ø D	N1-Ød	E x F	E1 x F1	O x Q	O1 x Q1
1	50YWP15-8-1.1	50	90	140	110	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
2	50YWP20-7-1.5	50	90	140	110	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
3	50YWP10-15-2.2	50	90	140	110	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
4	50YWP15-20-3	50	90	140	110	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
5	50YWP15-25-4	50	90	140	110	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
6	50YWP15-30-5.5	50	90	140	110	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
7	50YWP25-30-7.5	50	90	140	110	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
8	50YWP25-40-11	50	90	140	110	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
9	65YWP30-10-3	65	110	160	130	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
10	65YWP30-15-4	65	110	160	130	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
11	65YWP30-20-5.5	65	110	160	130	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
12	65YWP50-32-15	65	110	160	130	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
13	65YWP50-40-18.5	65	110	160	130	4-Ø13.5	700 x 350	650 x 300	450 x 400	400 x 350
14	80YWP40-7-3	80	128	190	150	4-Ø17.5	700 x 350	650 x 300	450 x 400	400 x 350
15	80YWP50-10-4	80	128	190	150	4-Ø17.5	700 x 350	650 x 300	450 x 400	400 x 350
16	80YWP50-15-5.5	80	128	190	150	4-Ø17.5	700 x 350	650 x 300	450 x 400	400 x 350
17	80YWP50-18-7.5	80	128	190	150	4-Ø17.5	700 x 350	650 x 300	450 x 400	400 x 350
18	80YWP50-23-11	80	128	190	150	4-Ø17.5	700 x 350	650 x 300	450 x 400	400 x 350
19	100YWP100-18-15	100	148	210	170	4-Ø17.5	700 x 350	650 x 300	450 x 400	400 x 350
20	100YWP100-25-18.5	100	148	210	170	4-Ø17.5	700 x 350	650 x 300	450 x 400	400 x 350

## Installation Dimension YWP Series Stainless Steel

G	M	K	a	H	h	J	N2-ØK	I1	I2
280	255	480	-	100	12	230	4-Ø20	80	250
280	255	480	-	100	12	230	4-Ø20	80	250
280	255	480	-	100	12	230	4-Ø20	80	250
280	255	480	-	100	12	230	4-Ø20	80	250
280	255	480	-	100	12	230	4-Ø20	80	250
280	255	480	-	100	12	230	4-Ø20	80	250
280	255	480	-	100	12	230	4-Ø20	80	250
300	255	510	-	100	12	230	4-Ø20	80	250
300	255	510	-	100	12	230	4-Ø20	80	250
300	255	510	-	100	12	230	4-Ø20	80	250
300	255	510	-	100	12	230	4-Ø20	80	250
300	255	510	-	100	12	230	4-Ø20	80	250
350	268	580	-	100	12	180	4-Ø20	120	350
350	268	580	-	100	12	180	4-Ø20	120	350
350	268	580	-	100	12	180	4-Ø20	120	350
350	268	580	-	100	12	180	4-Ø20	120	350
350	268	580	-	100	12	180	4-Ø20	120	350
350	268	580	-	100	12	180	4-Ø20	120	350
350	268	580	-	100	12	180	4-Ø20	120	350



## **Installation and Use**

There are single pipe and double pipe (for liquid discharge) two ways of installation.

The pipe line connected to the discharge pipe of the submersible pump should be fitted with a stand separately and it is not allowed to put the weight of the externally connected pipeline on the pump casing.

Before use, carefully check if both pump and motor damaged and check the situation of the fasteners.

Turn the pump with hand to see if there is a frictional sound.

Never use a knife switch to turn on the power or directly turn it on from the electric network, for which a fully automatic pump control cabinet can be equipped with to make sure of the pump's normal run.

The impeller moves clock wise when viewed from the motor and never have it move anti-clock wise.

## **Maintenance**

The pump's inlet pipeline must be full of liquid and never let it run it the state of lack of liquid or under the working condition of steam corrosion in order to extend its life of use.

The pump is not allow to run for a long time under a low head state and take a periodic and timing check of the current valve of the motor so as to prevent the pump's motor from being burnt due to overload.

Designate a special person to take care of and use the pump and carry out a periodic check of it to see if the circuit and work are normal.

About every 5000 hours of used of the pump under the normal condition, fill the engine oil into the oil chamber or replace it so as to have the mechanical seal kept in a good lubricated state and its duration enhanced.

## **Notice for Ordering**

To order, please make a note of the used head, flow, medium, temperature and depth of submerge so as for us to supply a more reliable product.

The ordinary is made of cast iron. Please set a special order for work with special working conditions and special medium, we will select a proper material and material to meet with the requirement.

We can supply the automatic water level control box for special completion, the submersible sewage pump's electrical control panel of various step down starting modes when the motor's power is more than 15kw and upon the need of user, the one-control-two (one for use one for spare), one-control-three (two for use one for spare) control panel and those with a specially required control.

## **Failures Causes and Trouble Shooting**

Failure	Causes	Remedy
No liquid delivered	Pump not primed.	No liquid in pit. Fill pit above casing. On dry pit units, casing and suction pipe must be completely filled.
	Discharge head too high.	Check total head, particularly friction loss.
	Wrong direction of rotation.	Check rotation.
	Speed too low.	Check motor speed.
	Impeller, discharge pipe, strainer completely plugged.	Remove obstructions or back flush.
	Suction pipe problems (where applicable).	Check suction lift, it may be too high. Line may be plugged.
	Inadequate NPSH available.	Check NPSH available and required.
Pump not producing rated flow or head.	Impeller, discharge pipe or strainer partially plugged.	Remove obstructions or back flush.
	Wrong direction of rotation.	Check rotation.
	Discharge head higher than anticipated.	Check total head, particularly friction loss.
	Worn or broken impeller.	Inspect and replace if necessary.
	Suction pipe problems (where applicable).	Check suction lift, it may be too high. Line may be plugged.
	Speed too low.	Check motor speed.
	Air or gasses in liquid.	Increase submergence; rearrange piping to prevent entrained air.
Pump starts then tops running.	Inadequate NPSH available.	Check NPSH available and required.
	Float controls misadjusted.	Check float controls.
	Air or gasses in liquid.	Increase submergence; rearrange piping to prevent entrained air.
	Strainer plugged.	Check sump for large items that the pump may be picking up.
Bearing run hot.	Air leak in suction line (where applicable)	Repair leak.
	Improper alignment.	Realign pump and driver.
	Improper lubrication.	Check lubricant for suitability and level.