



ZW Series

Non-clogging

Self Priming Pump



SHANGHAI ZHILI PUMP MFR CO.,LTD

Brief

ZW Series self priming and non-clogging pump is a new structure product which is developed on basic of domestic and foreign advanced technology.. This kind pump has feature of simple structure.,good self priming performance and high sewage ability, high efficiency and energy saving, convenient usage and easy maintenance etc . And it belongs to the first designing in the country at sewage pump series. All technology and performance data are on top of the nation. Reaching the international advanced level. So it has the wide application market and developing future.

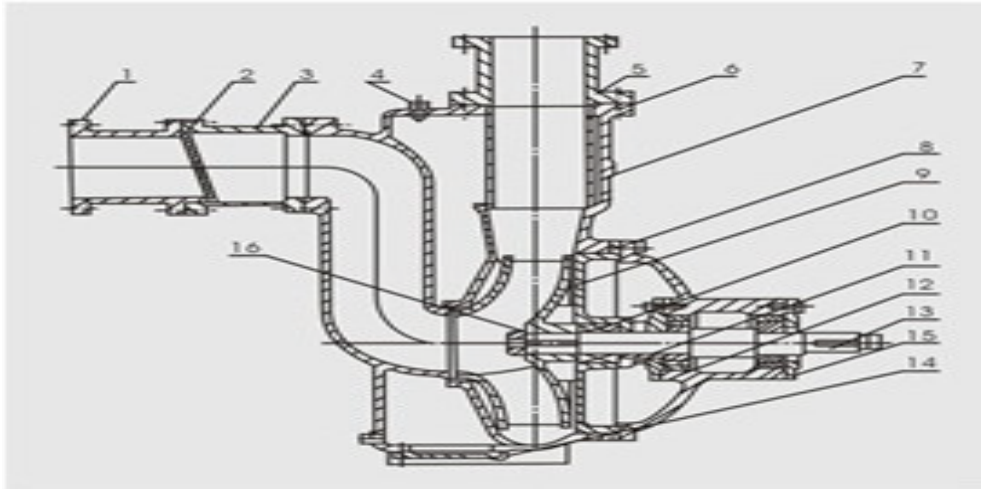
Application

This kind pump combines self priming and non-clogging, adopting axial circumfluence outer-mix type. And through the particular design of case and impeller channel. It not only needn't to be fixed with foot valve and poured in water like normal self priming, but also can suction and discharge liquid containing big grain and long fibre substance. So it is widely used in municipal sewage project, river and pond breeding, light industry, papermaking, weaving, foodstuff, chemical industry, power industry, fibrin, slurry and mixed suspend ,chemical medium and so on

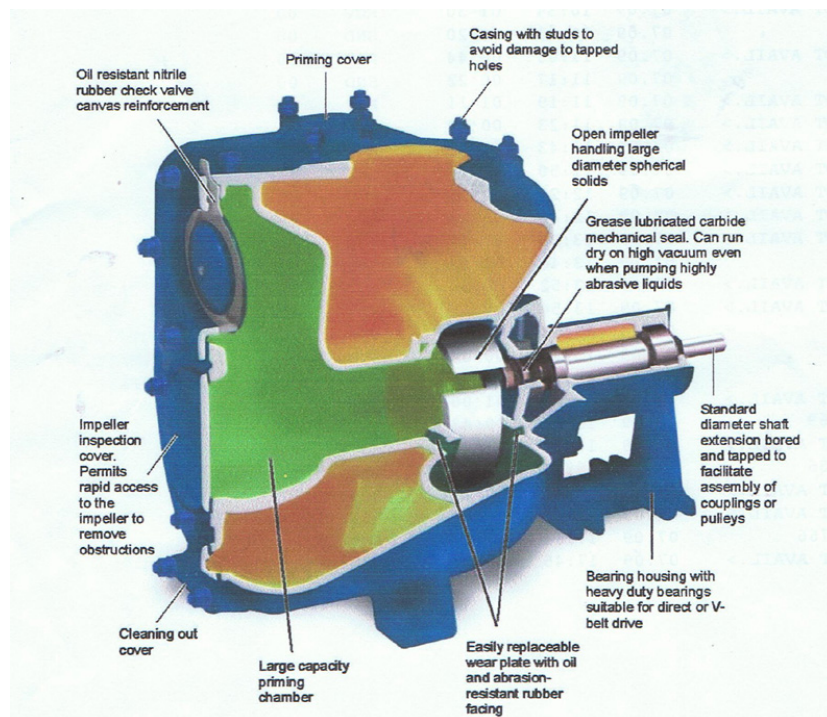
Operating conditions

1. Surrounding temperature $\leq 50^{\circ}\text{C}$, medium temperature $\leq 80^{\circ}\text{C}$.
2. Medium consistency should not exceed 1240 kg/m^3
3. Self priming height should not exceed the stated number of 4.5-5.5 meters, and the suction pipe should not be over 10 meter long.
4. It can pass the suspended grain whose diameter is 60 percent of pump caliber, and the fiber which is 5 times longer of pump caliber.
5. PH range of liquid: 6-9 (for cast iron pump), 2-13(for stainless steel pump).

Structure



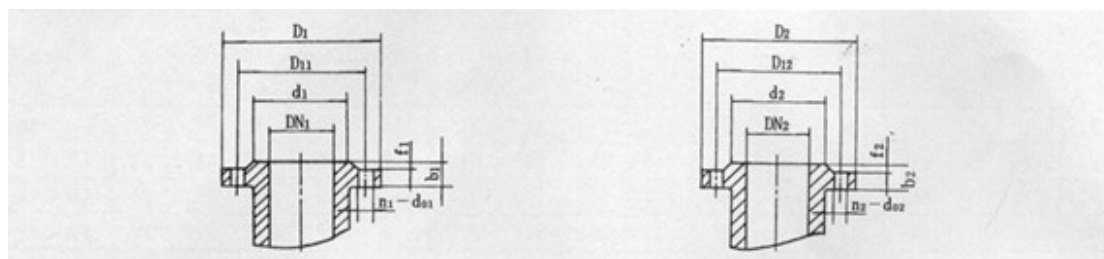
1	Inlet connector	FC20	9	Impeller	FC20
2	Flange	FC20	10	Mechanical seal	Silicon carbide
3	Valve seat	FC20	11	Lantern ring	FC20
4	flap valve	NBR	12	Bearing seat	FC20
5	Outlet conector	FC20	13	Shaft	C45
6	Casing	FC20	14	Bearing cover	FC20
7	Air-liquid seperator pipe	FC20	15	Bottom cover	FC20
8	Back cover	FC20	16	nut	FC20



Performance parameter

Model	Capacity (m ³ /h)	Head (m)	Power (KW)	Speed (r/min)	Efficiency (%)	NPSHr (m)	Self priming height (m)	Self priming performance (min/5m)	Weight (kg)
25-8-15	8	15	1.5	2900	45	2.0	5.5	3	100
32-5-20	5	20	2.2	2900	45	2.5	5.5	3	100
32-10-20	10	20	2.2	2900	45	2.5	5.5	3	100
32-9-30	9	30	3	2900	48	2.5	5.5	3	120
40-10-20	10	20	2.2	2900	45	2.5	5.5	3	100
40-20-15	20	15	2.2	2900	45	2.5	5.5	3	100
40-15-30	15	30	3	2900	48	2.5	5.5	3	120
50-10-20	10	20	2.2	2900	45	2.5	5.5	3	100
50-20-12	20	12	2.2	2900	45	2.5	5.5	3	100
50-15-30	15	30	3	2900	48	2.5	5.5	3	120
50-20-35	20	35	5.5	2900	48	2.5	5.5	3	150
65-30-18	30	18	4	1450	45	2.5	5.5	3	200
65-25-30	25	30	5.5	2900	50	3.0	5.5	3	200
65-25-40	25	40	7.5	2900	50	3.0	5.5	2	200
65-40-25	40	25	7.5	1450	50	3.0	5.5	2	200
65-65-25	65	25	11	2900	52	3.0	5.5	2	240
80-40-16	40	16	4	1450	50	3.0	5	3	240
80-40-25	40	25	7.5	1450	50	3.0	5.5	2	200
80-25-40	25	40	7.5	2900	50	3.0	5.5	2	200
80-65-25	65	25	11	2900	52	3.0	5.5	2	240
80-80-45	80	45	30	2900	45	3.0	5.5	3	285
80-80-35	80	35	22	1450	50	3.0	5.5	2	450
80-50-60	50	60	22	2900	55	3.0	5	3	340
100-100-15	100	15	7.5	1450	50	4.0	5.5	3	300
100-80-20	80	20	7.5	1450	53	4.0	5.5	3	300
100-100-20	100	20	11	1450	53	4.0	5.5	3	340
100-100-30	100	30	22	1450	53	4.0	5.5	2	510
125-120-20	120	20	15	1450	55	4.5	5.5	2	500
150-180-14	180	14	15	1450	60	5.0	5.5	3.5	500
150-180-20	180	20	22	1450	60	5.0	5	3	570
150-180-30	180	30	37	1450	65	5.0	5	3	680
150-180-38	180	38	55	1450	45	5.0	6	3.5	800
200-280-14	280	14	22	1450	65	5.0	5	3	700
200-280-28	280	28	55	1450	55	4.8	5.2	3	940
250-420-20	420	20	55	1450	61	6.0	4.5	2.5	1150
300-800-14	800	14	55	1450	65	6.0	4.5	2.5	1400

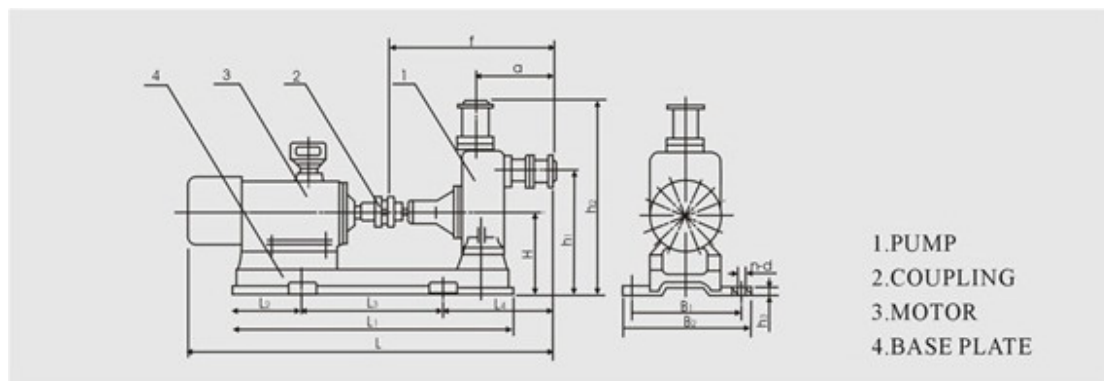
Flange dimension



Model	Suction flange							Discharge flange						
	DN1	D1	D11	d1	b1	f1	n1-de1	DN2	D2	D12	d2	b2	f2	n2-de2
25-8-15	25	100	75	60	14	2	4-φ 14	25	100	75	60	14	2	4-φ 14
32-5-20	32	120	90	70	14	2	4-φ 14	32	120	90	70	14	2	4-φ 14
32-10-20	32	120	90	70	14	2	4-φ 14	32	120	90	70	14	2	4-φ 14
32-9-30	32	120	90	70	14	2	4-φ 14	32	120	90	70	14	2	4-φ 14
40-10-20	40	130	100	80	14	2	4-φ 14	32	120	90	70	14	2	4-φ 14
40-20-15	40	130	100	80	14	2	4-φ 14	32	120	90	70	14	2	4-φ 14
40-15-30	40	130	100	80	14	2	4-φ 14	32	120	90	70	14	2	4-φ 14
50-10-20	50	140	110	90	14	2	4-φ 14	40	130	100	80	14	2	4-φ 14
50-20-12	50	140	110	90	14	2	4-φ 14	40	130	100	80	14	2	4-φ 14
50-15-30	50	140	110	90	14	2	4-φ 14	40	130	100	80	14	2	4-φ 14
50-20-35	50	140	110	90	14	2	4-φ 14	40	130	100	80	14	2	4-φ 14
65-30-18	65	160	130	110	14	2	4-φ 14	65	160	130	110	14	2	4-φ 14
65-25-30	65	160	130	110	14	2	4-φ 14	65	160	130	110	14	2	4-φ 14
65-25-40	65	160	130	110	14	2	4-φ 14	65	160	130	110	14	2	4-φ 14
65-40-25	65	160	130	110	14	2	4-φ 14	65	160	130	110	14	2	4-φ 14
65-65-25	65	160	130	110	14	2	4-φ 14	65	160	130	110	14	2	4-φ 14
80-40-16	80	190	150	125	15	2	4-φ 18	65	160	130	110	14	2	4-φ 14
80-40-25	80	190	150	125	15	2	4-φ 18	65	160	130	110	14	2	4-φ 14
80-25-40	80	190	150	125	15	2	4-φ 18	65	160	130	110	14	2	4-φ 14
80-65-25	80	190	150	125	15	2	4-φ 18	65	160	130	110	14	2	4-φ 14
80-80-45	80	190	150	125	15	2	4-φ 18	65	160	130	110	14	2	4-φ 14
80-50-60	80	190	150	125	15	2	4-φ 18	65	160	130	110	14	2	4-φ 14
100-100-15	100	210	170	145	15	2	4-φ 18	80	190	150	125	15	2	4-φ 18
100-80-20	100	210	170	145	15	2	4-φ 18	80	190	150	125	15	2	4-φ 18
100-100-20	100	210	170	145	15	2	4-φ 18	80	190	150	125	15	2	4-φ 18

100-100-30	100	210	170	145	15	2	4- ϕ 18	80	190	150	125	15	2	4- ϕ 18
125-120-20	125	240	200	175	20	3	8- ϕ 18	125	240	200	175	20	3	8- ϕ 18
150-180-14	150	265	225	200	20	3	8- ϕ 18	125	240	200	175	20	3	8- ϕ 18
150-180-20	150	265	225	200	20	3	8- ϕ 18	125	240	200	175	20	3	8- ϕ 18
150-180-30	150	265	225	200	20	3	8- ϕ 18	125	240	200	175	20	3	8- ϕ 18
150-180-38	150	265	225	200	20	3	8- ϕ 18	125	240	200	175	20	3	8- ϕ 18
200-280-14	200	320	280	255	22	3	8- ϕ 18	150	265	225	200	20	3	8- ϕ 18
200-280-28	200	320	280	255	22	3	8- ϕ 18	150	265	225	200	20	3	8- ϕ 18
250-420-20	250	375	335	310	24	3	12- ϕ 18	200	320	280	255	22	3	8- ϕ 18
300-800-14	300	435	395	362	24	4	12- ϕ 23	250	375	335	310	24	3	12- ϕ 18

Installation dimension



Model	L	L1	L2	L3	L4	a	f	B1	B2	H	h1	h2	h3	n x d
25-8-15	850	680	115	450	240	255	510	310	370	228	410	625	24	4x ϕ 18
32-5-20	850	680	115	450	240	255	510	310	370	228	410	625	24	4x ϕ 18
32-10-20	850	680	115	450	240	255	510	310	370	228	410	625	24	4x ϕ 18
32-9-30	890	710	130	450	240	260	510	310	370	238	410	630	24	4x ϕ 18
40-10-20	850	680	115	450	240	255	510	310	370	228	410	625	24	4x ϕ 18
40-20-15	850	680	115	450	240	255	510	310	370	228	410	625	24	4x ϕ 18
40-15-30	890	710	130	450	240	260	510	310	370	238	410	630	24	4x ϕ 18
50-10-20	850	680	115	450	240	255	510	310	370	228	410	625	24	4x ϕ 18
50-20-12	850	680	115	450	240	255	510	310	370	228	410	625	24	4x ϕ 18
50-15-30	890	710	130	450	240	260	510	310	370	238	410	630	24	4x ϕ 18

50-20-35	980	750	125	500	240	250	480	390	450	238	410	630	24	4x φ 18
65-30-18	1040	760	135	500	340	350	650	380	450	265	485	760	25	4x φ 18
65-25-30	1230	850	135	580	340	350	700	370	520	270	480	720	25	4x φ 18
65-25-40	1230	850	135	580	340	350	700	370	520	270	480	720	25	4x φ 18
65-40-25	1165	850	135	580	340	350	650	370	430	265	485	760	25	4x φ 18
65-65-25	1300	940	150	640	350	350	700	430	485	270	480	720	25	4x φ 18
80-40-16	1040	760	135	500	340	350	650	380	450	265	485	760	25	4x φ 18
80-40-25	1165	850	135	580	340	350	650	370	430	265	485	760	25	4x φ 18
80-25-40	1230	850	135	580	340	350	700	370	520	270	480	720	25	4x φ 18
80-65-25	1300	940	150	640	350	350	700	430	485	270	480	720	25	4x φ 18
80-80-45	1300	1020	190	640	360	350	700	450	520	270	480	720	25	4x φ 23
80-80-35	1365	1180	230	730	330	370	760	480	540	350	600	890	25	4x φ 23
80-50-60	1360	1020	190	640	400	350	650	450	520	280	495	770	25	4x φ 23
100-100-15	1230	920	140	630	375	400	730	450	510	330	630	920	28	4x φ 23
100-80-20	1230	920	140	630	375	400	730	450	510	330	630	920	28	4x φ 23
100-100-20	1320	1020	200	625	420	400	730	450	510	330	630	920	28	4x φ 23
100-100-30	1650	1300	320	730	180	460	900	480	550	330	570	870	30	4x φ 23
125-120-20	1600	1170	175	820	450	510	880	480	540	330	665	990	30	4x φ 23
150-180-14	1600	1170	175	820	450	510	880	480	540	330	665	990	30	4x φ 23
150-180-20	1580	1300	200	730	500	490	870	480	550	350	700	1030	30	4x φ 23
150-180-30	1690	1370	235	800	500	490	870	520	600	350	700	1030	30	4x φ 23
150-180-38	1920	1570	245	1080	400	490	870	580	660	350	700	1020	30	4x φ 23
200-280-14	1920	1470	270	970	520	650	1090	520	565	350	700	1090	30	4x φ 23
200-280-28	2020	1570	245	1080	500	650	1090	580	660	350	700	1090	30	4x φ 23
250-420-20	2180	1600	325	950	720	800	1330	610	670	430	800	1200	30	4x φ 23
300-800-14	2580	1880	300	1280	800	1030	1500	610	655	530	900	1350	30	4x φ 23