

Superior Products, Timely Service

EXCELLENT PRODUCTS AND TIMELY SERVICE



Self-Priming Pump Series ZW, ZX, WFB, CYZ, BZ, Diesel Engine Pump Sets

User Manual
OPERATION
INSTRUCTIONS



Hebei Ivy Pump Industry Co., Ltd.

Honest Cooperation, Creating a Win-Win Situation

Please read this manual carefully before using this product!

※Note: The company reserves the right to make changes or modifications without prior notice!

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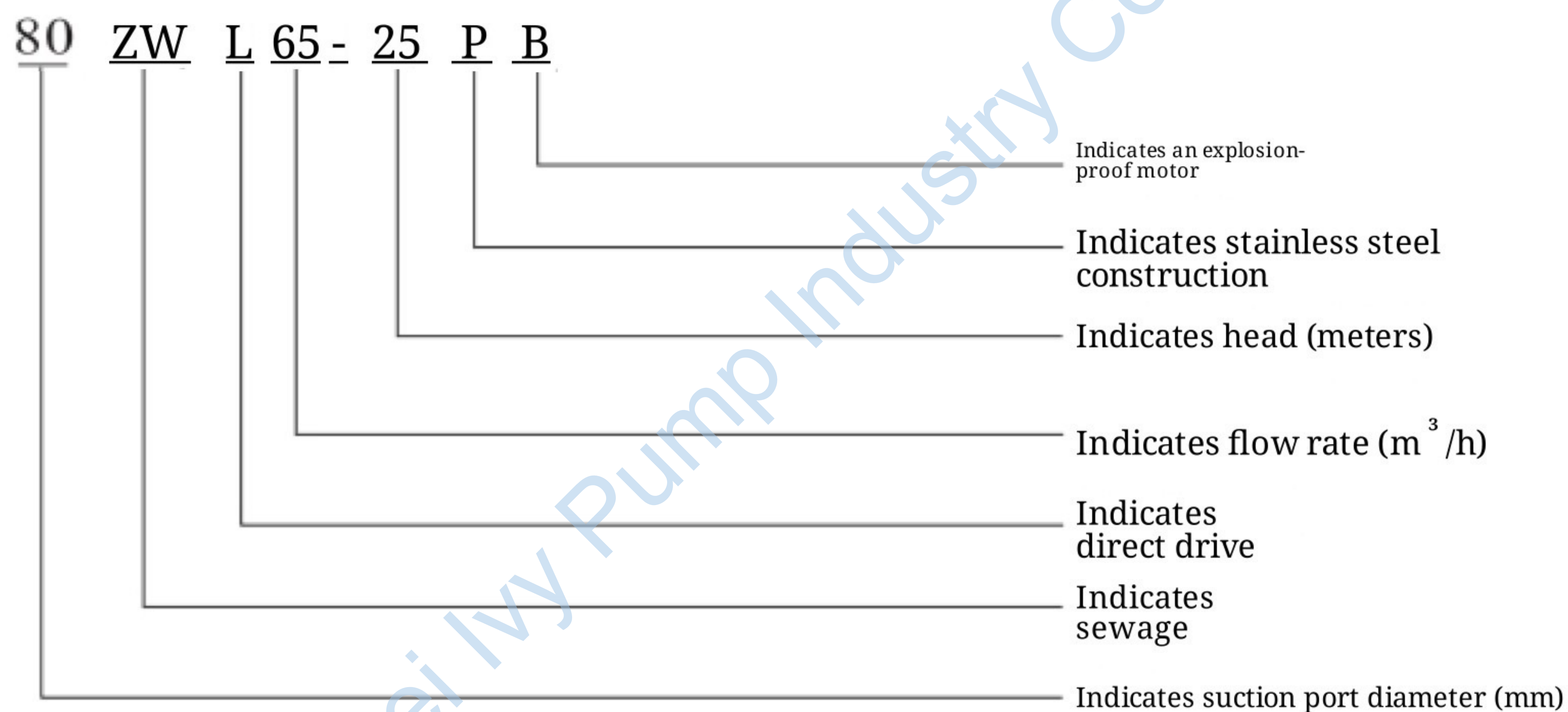
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Hebei Ivy Pump Industry Co., Ltd.

Overview

The ZW pump combines self-priming and clog-free sewage discharge capabilities. It employs an axial recirculation external mixing design. Thanks to the unique design of the pump casing and impeller flow passages, it operates like a standard self-priming clean water pump—requiring no foot valve or priming—while also being capable of pumping liquids containing large solid particles and long fibrous impurities. This simplifies the piping system and improves working conditions. The pump features an axial recirculation pump casing structure. The pump casing consists of a suction chamber, a liquid storage chamber, a volute chamber, a return port, and a gas-liquid separation chamber. After the pump starts normally, the impeller draws in both the liquid stored in the suction chamber and the air in the suction piping, which are thoroughly mixed within the impeller. Under the action of centrifugal force, the liquid, entraining the gas, flows toward the outer edge of the volute, forming a white foam band of a certain thickness and a high-speed rotating liquid ring at the outer edge of the impeller. The gas-liquid mixture enters the gas-liquid separation chamber through the diffusion tube. At this point, due to the sudden decrease in flow velocity, the lighter gas is separated from the mixture and continues to rise and be discharged through the pump discharge port. The degassed liquid returns to the liquid reservoir and re-enters the impeller through the recirculation orifice, where it mixes once again with the gas drawn in from the suction line inside the impeller. Driven by the high-speed rotation of the impeller, the mixture flows toward the outer edge of the impeller... As this process repeats continuously, the air in the suction line is gradually reduced until all gas is removed, completing the self-priming process, after which the pump begins normal operation.

Example of Model Designation



Pump Applications

1. Suitable for urban environmental protection, construction, fire protection, chemical processing, pharmaceuticals, textile printing and dyeing, brewing, power generation, electroplating, papermaking, industrial and mining washing, equipment cooling, and other applications.
2. When equipped with a swing-arm spray nozzle, it can propel water into the air, where it disperses into fine droplets to create a mist, making it an excellent tool for farms, nurseries, orchards, and tea plantations.
3. Suitable for fresh water, seawater, chemical media with acidic or alkaline properties, and general slurries (medium viscosity ≤ 100 cP, solid content up to 30%).
4. It can be used in conjunction with filter presses of any model or specification and is the ideal pump for feeding slurries to filter presses for filtration.

ZW Self-Priming Non-Clogging Sewage Pump Performance Parameter Table

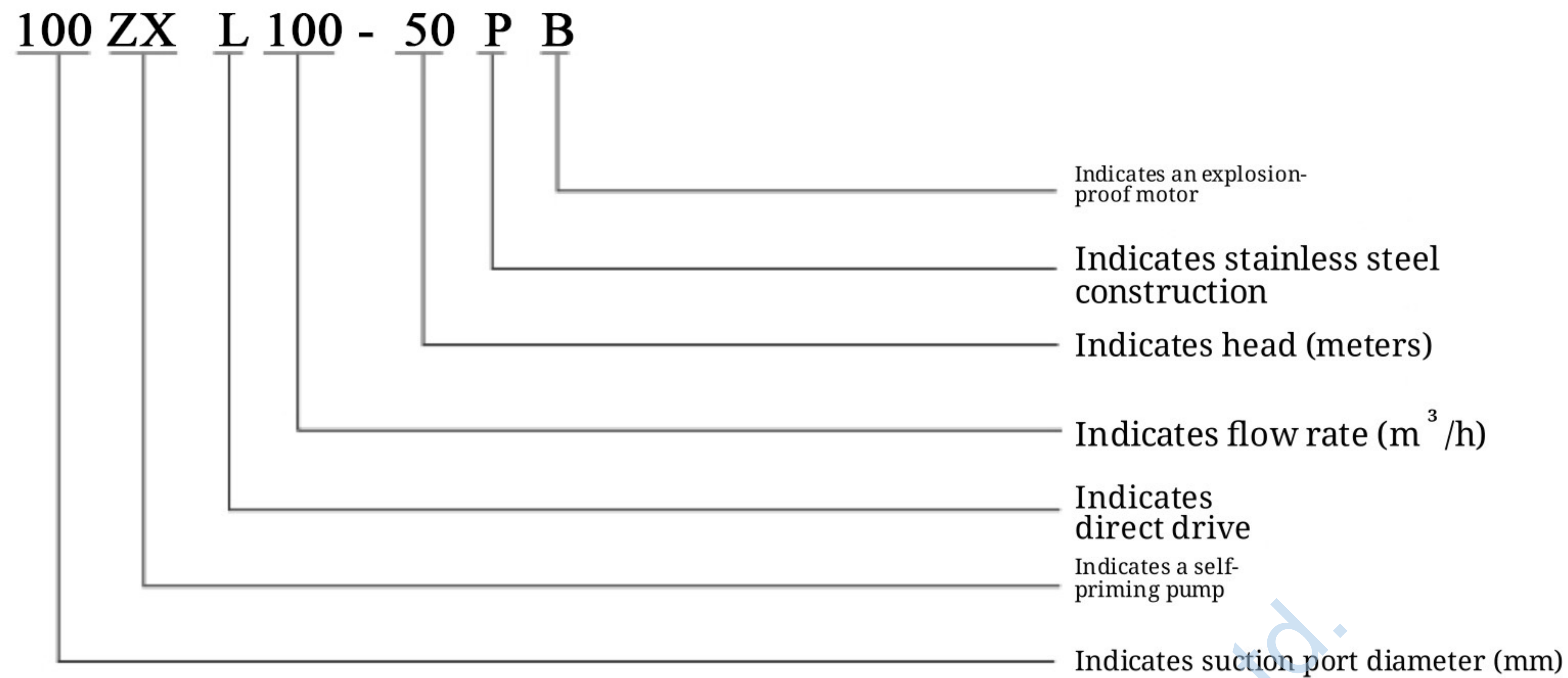
Model	Flow Rate (m³/h)	Head (m)	Power (kW)	Speed (r/min)	Model	Flow Rate (m³/h)	Head (m)	Power (kW)	Speed (r/min)
25ZW3-10	3	10	1.5	2900	100ZW80-60	80	60	30	2900
25ZW3-20	3	20	2.2	2,900	100ZW100-15	100	15	7.5	1,450
25ZW3-30	3	30	3	2,900	100ZW100-20	100	20	11	1450
32ZW6-10	6	10	1.5	2,900	100ZW100-30	100	30	15	2,900
32ZW6-20	6	20	2.2	2,900	100ZW100-40	100	40	22	2,900
32ZW6-30	6	30	3	2,900	100ZW100-50	100	50	30	2,900
40ZW10-10	10	10	1.5	2,900	100ZW120-20	120	20	11	1,450
40ZW10-20	10	20	2.2	2,900	100ZW120-25	120	25	15	2,900
40ZW10-30	10	30	3	2900	100ZW120-35	120	35	18.5	2,900
50ZW8-15	8	15	2.2	2,900	100ZW120-45	120	45	30	2,900
50ZW10-20	10	20	2.2	2,900	125ZW120-20	120	20	15	1,450
50ZW20-10	20	10	2.2	2,900	125ZW180-14	180	14	15	1450
50ZW15-30	15	30	3	2,900	125ZW180-20	180	20	22	1450
50ZW20-20	20	20	4	2,900	125ZW180-25	180	30	30	1450
50ZW20-35	20	35	5.5	2,900	125ZW180-35	180	40	37	1450
50ZW20-40	20	40	7.5	2,900	125ZW180-45	180	50	45	1450
65ZW20-25	20	25	4	2,900	150ZW180-14	180	14	15	1450
65ZW25-30	25	30	5.5	2,900	150ZW180-20	180	20	22	1450
65ZW30-18	30	18	4	1,450	150ZW180-30	180	30	37	1450
65ZW25-40	25	40	7.5	2,900	150ZW180-37	180	40	45	1450
65ZW40-25	40	25	7.5	2,900	150ZW180-50	180	50	55	1450
65ZW40-35	40	35	11	2,900	200ZW280-14	280	14	22	1450
80ZW40-16	40	16	4	1,450	200ZW280-18	280	18	30	1450
80ZW65-25	65	25	7.5	2,900	200ZW280-20	280	20	37	1450
80ZW65-30	65	30	11	2,900	200ZW280-28	280	28	45	1450
80ZW65-35	65	35	11	2,900	200ZW280-35	280	35	55	1450
80ZW80-20	80	20	7.5	2,900	200ZW300-15	300	15	30	1450
80ZW80-25	80	25	11	2,900	200ZW400-25	400	25	55	1450
80ZW80-35	80	35	15	2,900	200ZW400-30	400	30	75	1450
80ZW50-45	50	50	18.5	2,900	250ZW500-15	500	15	45	1450
80ZW50-60	50	60	22	2,900	250ZW420-22	420	22	55	1450
80ZW80-20	80	20	7.5	1,450	250ZW500-30	500	30	75	1450
100ZW80-20	80	20	7.5	1450	300ZW800-14	800	14	55	1450
100ZW80-25	80	25	11	2,900	300ZW800-20	800	22	75	1450
100ZW80-35	80	35	15	2,900	300ZW800-30	800	30	90	1450
100ZW80-40	80	40	18.5	2,900	350ZW1200-15	1200	15	75	1450
100ZW80-50	80	50	22	2,900	350ZW1500-15	1500	15	90	1450

ZX Self-Priming Centrifugal Pump

Overview

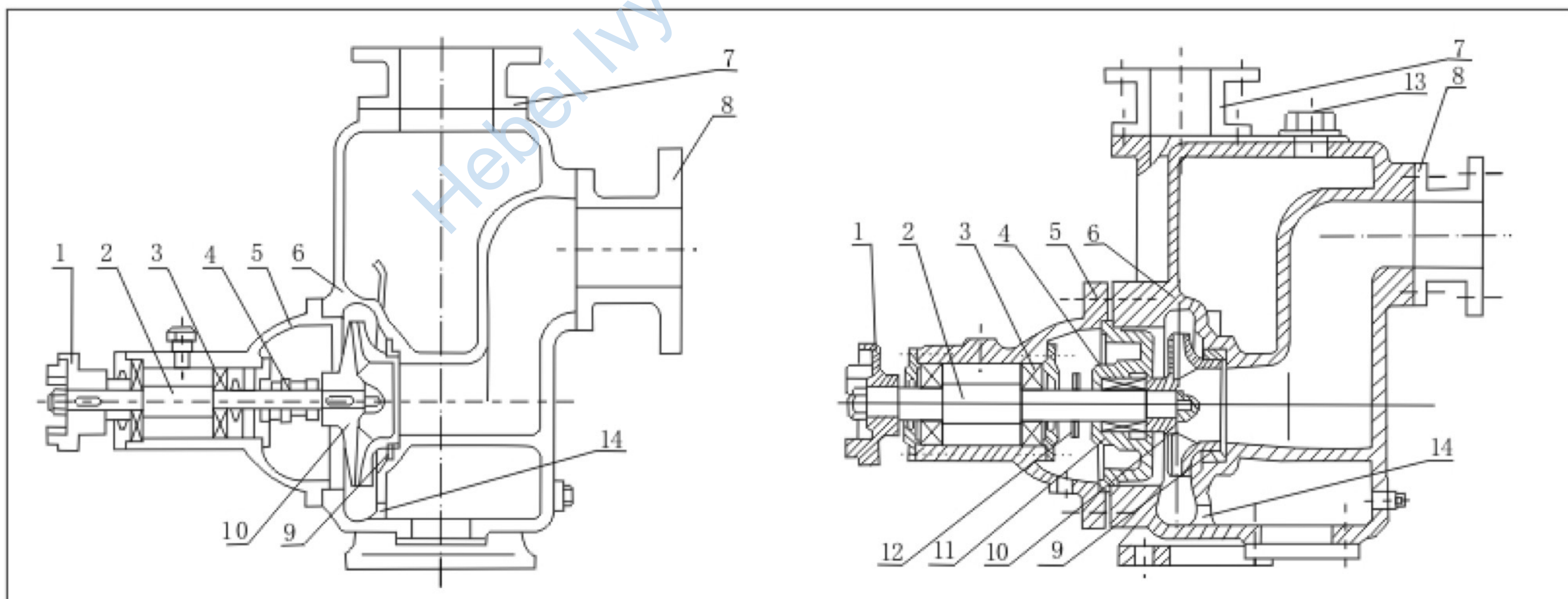
The ZX Self-Priming Centrifugal Pump features a compact design, convenient operation, smooth running, easy maintenance, high efficiency, long service life, and strong self-priming capability. No foot valve is required in the piping system; before operation, simply ensure that a sufficient amount of priming liquid is stored in the pump casing.

Example of Model Designation



Application Scope of the Pump

1. Suitable for urban environmental protection, construction, fire protection, chemical processing, pharmaceuticals, textile printing and dyeing, brewing, power generation, electroplating, papermaking, industrial and mining washing, equipment cooling, and other applications.
2. When equipped with a swing-arm spray nozzle, the pump can propel water into the air, where it disperses into fine droplets to create a mist, making it an excellent tool for farms, nurseries, orchards, and tea plantations.
3. Suitable for fresh water, seawater, chemical media with acidic or alkaline properties, and general slurry-like materials (medium viscosity ≤ 100 cP, solid content up to 30%).



1	Coupling	2	Pump Shaft	3	Bearing	4	Mechanical Seal	5	Bearing Housing	6	Pump Casing	7	Discharge Seat
18	Inlet Seat	9	Front seal ring	10	Impeller	11	Rear Cover	12	Water Seal Ring	13	Filling Port	14	Return port

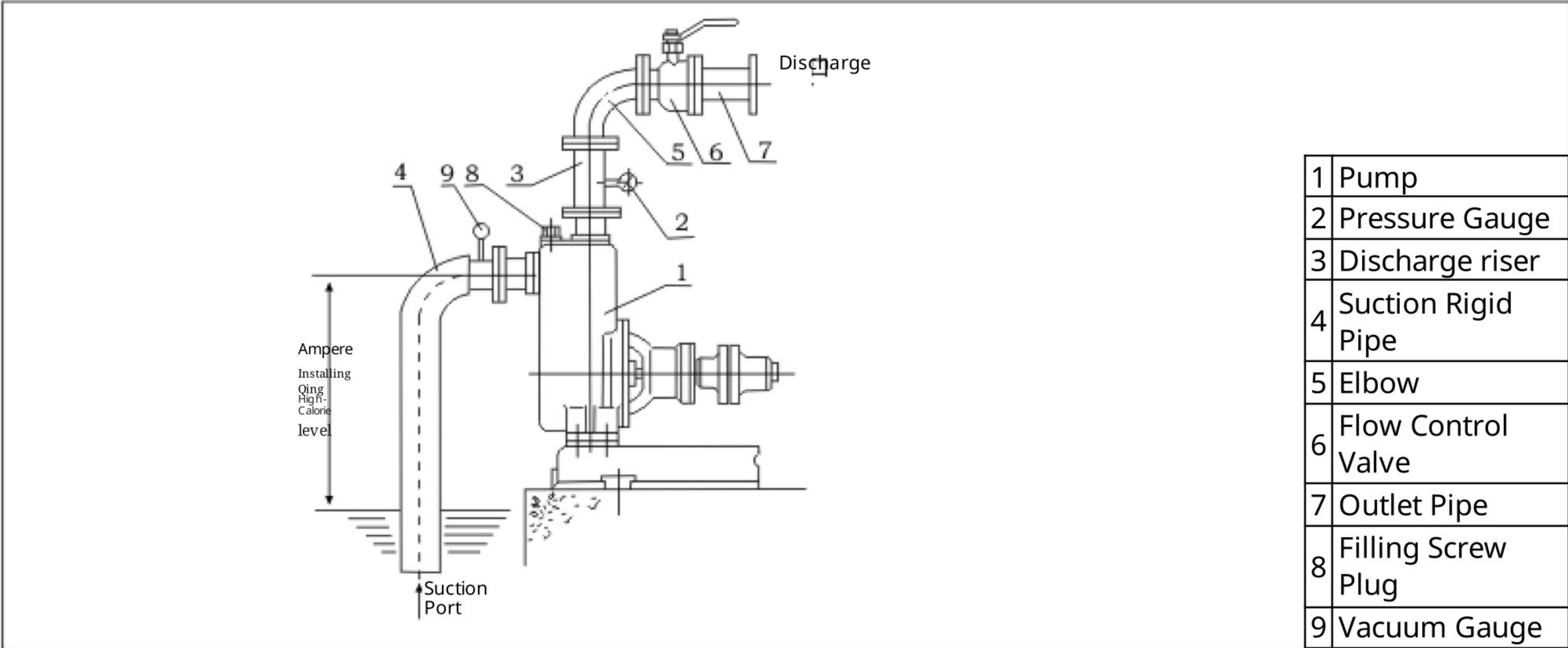
ZX Self-Priming, Clog-Free Sewage Pump Performance Parameter Table

Model	Flow Rate (m³/h)	Head (m)	Power (kW)	Speed (r/min)	Model	Flow Rate (m³/h)	Head (m)	Power (kW)	Speed (r/min)
25ZX3-10	3	10	1.5	2900	65ZX25-120	25	120	30	2900
25ZX3-20	3	20	2.2	2,900	80zx40-15	40	15	4	2900
25ZX3-30	3	30	3	2,900	80ZX50-20	50	20	5.5	2,900
25ZX3-40	3	40	4	2,900	80ZX50-32	50	32	7.5	2,900
25ZX3-50	3	50	5.5	2,900	80ZX50-40	50	40	11	2,900
32ZX6-10	6	10	1.5	2,900	80ZX50-50	50	50	15	2,900
32ZX6-20	6	20	2.2	2,900	80ZX50-65	50	65	18.5	2,900
32ZX6-30	6	30	3	2,900	80ZX50-80	50	80	22	2,900
32ZX6-40	6	40	4	2,900	80ZX50-100	50	100	30	2,900
32ZX6-50	6	50	5.5	2,900	80ZX50-120	50	120	37	2,900
32ZX6-65	6	65	7.5	2,900	80ZX50-135	50	135	45	2,900
32ZX6-80	6	80	11	2,900	80ZX50-150	50	150	55	2,900
40ZX10-20	10	20	2.2	2,900	100ZX100-15	100	15	7.5	2,900
40ZX10-30	10	30	3	2900	100ZX100-20	100	20	11	2,900
40ZX10-40	10	40	4	2,900	100ZX100-32	100	32	15	2,900
40ZX10-50	10	50	5.5	2,900	100ZX100-40	100	40	18.5	2,900
40ZX10-65	10	65	7.5	2,900	100ZX100-50	100	50	22	2,900
40ZX10-80	10	80	11	2,900	100ZX100-65	100	65	30	2,900
50ZX12-20	12	20	2.2	2,900	100ZX100-80	100	80	37	2,900
50ZX12-32	12	32	3	2900	100ZX100-90	100	90	45	2,900
50ZX12-40	12	40	4	2900	100ZX100-100	100	100	55	2,900
50ZX12-50	12	50	5.5	2,900	100ZX100-120	100	120	75	2,900
50ZX12-65	12	65	7.5	2,900	100ZX100-150	100	150	90	2,900
50ZX12-80	12	80	11	2,900	125ZX160-40	160	40	30	2,900
65ZX25-20	25	20	3	2,900	125ZX160-50	160	50	37	2,900
65ZX25-32	25	32	5.5	2,900	125ZX160-65	160	65	45	2900
65ZX25-40	25	40	5.5	2,900	125ZX160-80	160	80	55	2,900
65ZX25-50	25	50	7.5	2,900	125ZX160-100	160	100	75	2,900
65ZX25-65	25	65	11	2,900	125ZX160-120	160	120	90	2,900
65ZX25-80	25	80	15	2,900	125ZX160-150	160	150	110	2,900
65ZX25-90	25	90	18.5	2,900	125ZX100-20	100	20	11	1,450
65ZX25-100	25	100	22	2900	125ZX100-30	100	30	15	1450

ZX Self-Priming, Clog-Free Sewage Pump Performance Parameter Table

Model	Flow Rate (m ³ /h)	Head (m)	Power (kW)	Speed (r/min)	Model	Flow Rate (m ³ /h)	Head (m)	Power (kW)	Speed (r/min)
125ZX100-40	100	40	22	1450	200ZX280-110	280	110	185	1450
125ZX100-50	100	50	30	1450	200ZX400-25	400	25	45	1450
125ZX160-20	160	20	18.5	1450	200ZX400-32	400	32	55	1450
125ZX160-25	160	25	22	1450	200ZX400-40	400	40	75	1450
125ZX160-32	160	32	30	1450	200ZX400-50	400	50	90	1450
125ZX160-40	160	40	37	1450	200ZX400-65	400	65	110	1450
125ZX160-50	160	50	45	1450	200ZX400-80	400	80	132	1450
150ZX200-30	200	30	30	2900	250ZX550-20	550	20	55	1450
150ZX200-40	200	40	37	2900	250ZX550-32	550	32	75	1450
150ZX200-50	200	50	45	2900	250ZX550-40	550	40	90	1450
150ZX200-65	200	65	55	2900	250ZX550-50	550	50	110	1450
150ZX200-80	200	80	75	2900	250ZX550-60	550	60	132	1450
150ZX200-100	200	100	90	2900	250ZX550-70	550	70	160	1450
150ZX200-120	200	120	110	2900	250ZX550-80	550	80	185	1450
150ZX200-150	200	150	132	2900	300ZX720-20	720	20	75	1450
150ZX200-20	200	20	18.5	1450	300ZX720-32	720	32	90	1450
150ZX200-25	200	25	22	1450	300ZX720-40	720	40	110	1450
150ZX200-32	200	32	30	1450	300ZX720-50	720	50	132	1450
150ZX200-40	200	40	37	1450	300ZX720-60	720	60	160	1450
150ZX200-50	200	50	45	1450	300ZX720-70	720	70	200	1450
150ZX200-60	200	60	55	1450	300ZX720-80	720	80	250	1450
150ZX200-70	200	70	75	1450	350ZX1200-20	1200	20	90	1450
150ZX200-80	200	80	90	1450	350ZX1200-24	1200	24	110	1450
200ZX280-25	280	25	37	1450	350ZX1200-28	1200	28	132	1450
200ZX280-32	280	32	45	1450	350ZX1200-32	1200	32	160	1450
200ZX280-40	280	40	55	1450	350ZX1200-40	1200	40	200	1450
200ZX280-50	280	50	75	1450	350ZX1200-50	1200	50	250	1450
200ZX280-63	280	63	90	1450	350ZX1500-15	1500	15	90	1450
200ZX280-75	280	75	110	1450	350ZX1500-20	1500	20	132	1450
200ZX280-85	280	85	132	1450	350ZX1500-30	1500	30	185	1450
200ZX280-100	280	100	160	1450					

Pump Installation Precautions



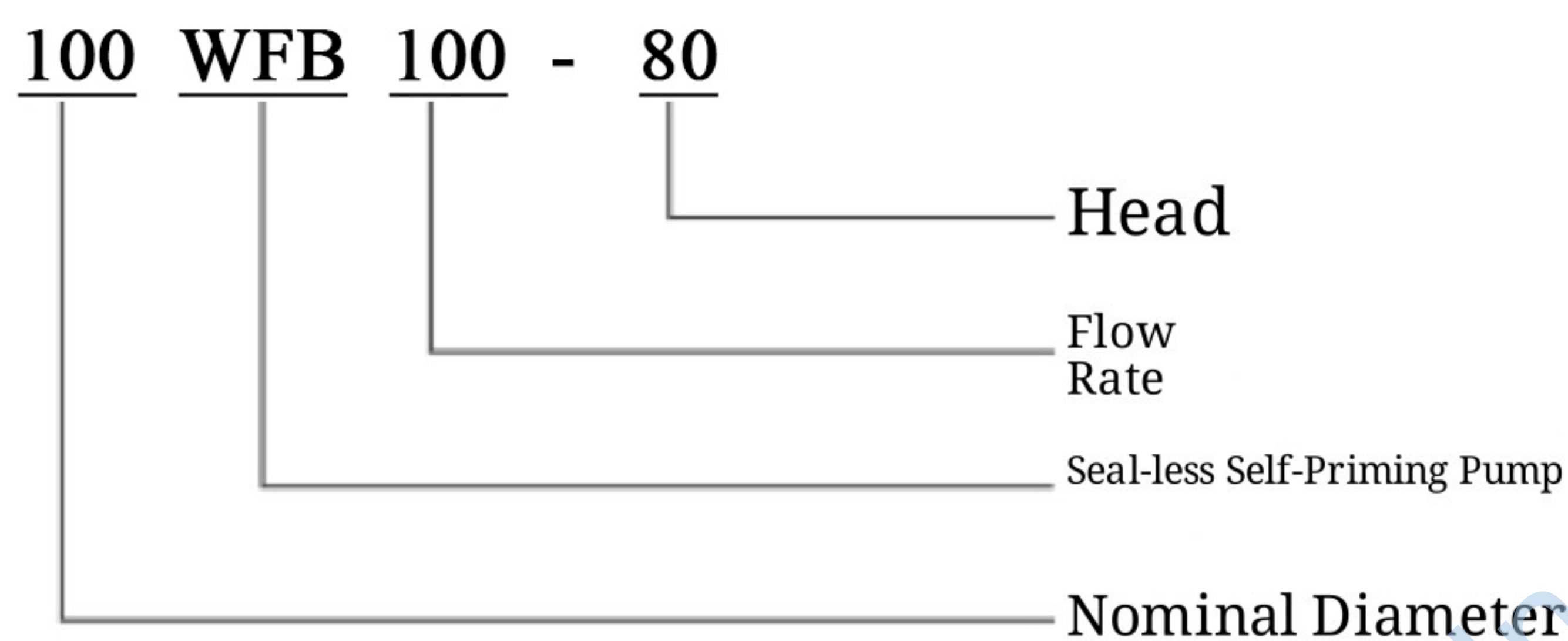
1. When the pump is directly coupled to the motor, ensure that the pump shaft and the motor output shaft are coaxial. The accuracy of the pump installation significantly affects its smooth operation and service life; therefore, installation and alignment must be performed with great care and precision.
2. The pump coupling must be securely fastened with nuts and locked in place to prevent loosening; otherwise, it may cause the impeller to shift, leading to mechanical failure.
3. To maintain a certain amount of liquid in the pump casing—thereby ensuring good self-priming capability and preventing dry friction in the mechanical seal—the pump inlet must be positioned above the centerline of the pump shaft.
4. The following points should be observed when installing the suction piping:
 - A. The installation height of the suction inlet must not exceed 5 meters. Where conditions permit, the suction inlet should be installed as low as possible below the lowest water level in the tank, and the length of the suction pipe should be minimized with as few elbows as possible. This helps reduce self-priming time and improve self-priming performance.
 - B. Valves, flanges, and other components in the suction piping must be strictly protected against air leaks or liquid seepage; in other words, no air leaks are permitted in the suction piping.
 - C. To prevent solids and other debris from entering the pump housing, a strainer must be installed on the suction line. The effective flow area of the strainer should be 2 to 3 times the cross-sectional area of the suction pipe, and the strainer should be inspected regularly.
 - D. The suction and discharge piping must have their own supports; the pump body itself must not bear the load of the piping.
5. The discharge riser must be installed at a height of no less than 0.5 meters from the discharge flange, and a discharge flow control valve must be installed.
6. During installation, ensure that the static grounding resistance of the pump and piping meets the specified requirements.
7. During installation, thoroughly inspect the pump casing and piping for any foreign objects such as stones or iron filings.
8. Adjust the installation clearance and concentricity of the pump coupling and motor coupling; the allowable deviation for misalignment is 0.1 millimeters. The height difference between the pump shaft and the motor shaft can be adjusted by placing copper or iron shims under the footings.
9. After the unit has been in actual operation for 3–4 hours, conduct a final inspection. If no abnormalities are found, the installation is considered complete. During trial operation, check the bearing temperature; the temperature of the bearing housing should not exceed 70°C.
10. For pump bearing housings equipped with a cooling chamber, connect a circulating water supply to cool the bearing chamber. The connection size is 1/2 pipe thread or 3/8 pipe thread.
11. If a check valve is installed in the pump's discharge line and the pump is unable to vent air smoothly during the self-priming process, an air vent pipe and valve should be added at the pump's discharge outlet.

WFB Series Seal-less, Self-Controlled, Self-Priming Pumps

The WFB Series Seal-less, Self-Controlled, Self-Priming Pumps feature high temperature resistance, high pressure resistance, wear resistance, and the capability of “one-time priming for lifelong self-priming.” Currently, the series includes complete units manufactured from various materials such as stainless steel, 316L, reinforced polypropylene, cast steel, wear-resistant steel, and cast iron, with seven different configurations and over 1,000 specifications. They are widely used in industries such as electronics, power, chemicals, steel, pharmaceuticals, food processing, electroplating, environmental protection, firefighting, municipal services, water purification, national defense and military, textile printing and dyeing, mining and ore beneficiation, and civil construction, and have been highly praised by users.

Unique Advantages:

1. Our factory employs a “multi-faceted centrifugal seal assembly for pumps,” eliminating the need for traditional packing seals, gland seals, and mechanical seals in conventional pumps. This completely eliminates “leaks, spills, drips, and seepage,” making it the ideal replacement for various long-shaft submersible pumps, submersible pumps, and submersible sewage pumps.
 2. The sealing device operates without friction or wear during operation, resulting in a service life more than 10 times longer than that of comparable products.
 3. Utilizing the principle of air-water separation, the self-priming performance is stable and reliable. In particular, the use of an “electric air control valve” completely eliminates the siphon effect, truly achieving “one-time priming, lifelong self-priming.”
 4. Low vibration, low noise, flexible mobility, simple disassembly, easy installation, and no need for foundation anchoring.
 5. It features superior automatic alarm functions for both high and low water levels and can be integrated with high-tech applications and highly automated systems.
- Example of Model Designation:



Causes of Malfunctions and Troubleshooting Methods

Fault	Cause of Failure	Troubleshooting
Pump Not Dispensing Liquid	1. Insufficient priming flow; 2. Significant air leakage at a flange, valve, or somewhere in the piping on the suction side; 3. The priming port or vent cap is not tightened securely, or there is no gasket inside the cap;	Check each item one by one and troubleshoot accordingly
Flow Rate and Head (Pressure) Do Not Meet Specifications	1. Voltage is too low, resulting in the pump not reaching its rated speed; 2. The motor is rotating in the wrong direction; 3. The bottom filter screen is clogged, causing insufficient flow; 4. A slow air leak at a flange, valve, or somewhere in the piping on the suction side is affecting the pump's vacuum level;	Check each item one by one and troubleshoot accordingly
Leaks at the connection points between the motor and the pump	1. Leakage occurs at startup but disappears during normal operation; 2. Leakage persists throughout operation (this may be due to a damaged seal or a significant discrepancy between the actual head and pressure and the pump's rated parameters).	1. The priming fluid was overfilled; this is not a malfunction; 2. Check whether the seal is damaged.

WFB Clog-Free Sewage Pump Performance Specifications Table

Model	Flow Rate	Head	Power	RPM	Model	Flow Rate	Head	Power	RPM
50WFB15-10	15	10	3	2900	125WFB160-20	160	20	30	2900
50WFB15-20	15	20	4	2900	125WFB160-30	160	30	37	2900
50WFB15-30	15	30	7.5	2900	125WFB160-40	160	40	45	2900
50WFB15-40	15	40	11	2900	125WFB160-50	160	50	55	2900
50WFB15-50	15	50	15	2900	125WFB160-60	160	60	75	2900
50WFB15-60	15	65	18.5	2900	125WFB160-70	160	70	90	2900
50WFB15-80	15	80	22	2900	125WFB160-80	160	80	110	2900
65WFB30-10	30	10	4	2900	150WFB200-15	200	15	30	1450
65WFB30-20	30	20	7.5	2900	150WFB200-25	200	25	37	2900
65WFB30-30	30	30	11	2900	150WFB200-35	200	35	45	2900
65WFB30-40	30	40	15	2900	150WFB200-45	200	45	55	2900
65WFB30-50	30	50	18.5	2900	150WFB200-55	200	55	75	2900
65WFB30-60	30	65	22	2900	150WFB200-65	200	65	90	2900
65WFB30-80	30	80	30	2900	150WFB200-80	200	80	110	2900
80WFB50-10	50	10	7.5	1450	200WFB300-20	300	20	45	1450
80WFB50-20	50	20	11	2900	200WFB300-30	300	28	55	1450
80WFB50-30	50	30	15	2900	200WFB300-40	300	36	75	1450
80WFB50-40	50	40	18.5	2900	200WFB300-45	300	45	90	1450
80WFB50-50	50	50	22	2900	200WFB300-50	300	50	110	1450
80WFB50-60	50	65	30	2900	250WFB500-20	500	20	75	1450
80WFB50-80	50	80	37	2900	250WFB500-30	500	30	90	1450
100WFB100-10	100	10	11	1450	300WFB800-15	800	15	75	1450
100WFB100-20	100	20	15	2900	300WFB800-20	800	20	90	1450
100WFB100-30	100	30	22	2900	300WFB800-25	800	25	110	1450
100WFB100-40	100	40	30	2900	300WFB800-30	800	30	132	1450
100WFB100-50	100	50	37	2900	300WFB800-35	800	35	160	1450
100WFB100-70	100	65	45	2900	350WFB1000-15	1000	15	110	1450
100WFB100-80	100	80	55	2900	350WFB1000-20	1000	20	132	1450
125WFB160-12	160	12	18.5	1450	350WFB1000-25	1000	25	160	1450
125WFB160-15	160	15	22	1450	350WFB1000-30	1000	30	185	1450
					350WFB1000-35	1000	35	200	1450

CYZ Oil Pump Performance Parameters Table

Model	Flow Rate (m³/h)	Head (m)	Power (kW)	Speed (r/min)
50CYZ12.5-20	12.5	20	2.2	2900
50CYZ12.5-32	12.5	32	3	2900
50CYZ12.5-40	12.5	40	4	2900
50CYZ12.5-50	12.5	50	5.5	2,900
50CYZ12.5-65	12.5	65	7.5	2,900
50CYZ12.5-80	12.5	80	11	2900
65CYZ25-20	25	20	3	2900
65CYZ25-32	25	32	4	2900
65CYZ25-40	25	40	5.5	2900
65CYZ25-50	25	50	7.5	2900
65CYZ25-65	25	65	11	2900
65CYZ25-80	25	80	15	2900
80CYZ50-20	50	20	5.5	2900
80CYZ50-32	50	32	7.5	2900
80CYZ50-40	50	40	11	2900
80CYZ50-50	50	50	15	2,900
80CYZ50-65	50	65	18.5	2900
80CYZ50-80	50	80	22	2900
100CYZ100-20	100	20	11	2,900
100CYZ100-32	100	32	15	2900
100CYZ100-40	100	40	18.5	2,900
100CYZ100-50	100	50	22	2,900
100CYZ100-65	100	65	30	2,900
100CYZ100-80	100	80	37	2,900
150CYZ160-40	160	40	30	2900
150CYZ160-50	160	50	37	2900
150CYZ160-65	160	65	45	2900
150CYZ160-80	160	80	55	2900
150CYZ200-20	200	20	18.5	1,450
150CYZ200-32	200	32	30	1450
150CYZ200-40	200	40	37	1450
150CYZ200-50	200	50	45	1450
200CYZ400-20	400	20	45	1450
200CYZ400-32	400	32	55	1450

BZ Self-Priming Pump Performance Specifications Table

Model	Flow Rate (m³/h)	Head (m)	Power (kW)	Speed (r/min)
50BZ-20	12.5	20	2.2	2900
50BZ-32	12.5	32	3	2900
50BZ-40	12.5	40	4	2,900
50BZ-50	12.5	50	5.5	2,900
50BZ-65	12.5	65	7.5	2,900
50BZ-80	12.5	80	11	2,900
65BZ-20	25	20	3	2900
65BZ-32	25	32	4	2900
65BZ-40	25	40	5.5	2,900
65BZ-50	25	50	7.5	2,900
65BZ-65	25	65	11	2,900
65BZ-80	25	80	15	2900
80BZ-20	50	20	5.5	2,900
80BZ-32	50	32	7.5	2,900
80BZ-40	50	40	11	2,900
80BZ-50	50	50	15	2,900
80BZ-65	50	65	18.5	2,900
80BZ-80	50	80	22	2,900
100BZ-20	100	20	11	2,900
100BZ-32	100	32	15	2,900
100BZ-40	100	40	18.5	2,900
100BZ-50	100	50	22	2,900
100BZ-65	100	65	30	2,900
100BZ-80	100	80	37	2,900
150BZ-40	160	40	30	2,900
150BZ-50	160	50	37	2,900
150BZ-65	160	65	45	2,900
150BZ-80	160	80	55	2,900
150BZ-20	200	20	18.5	1,450
150BZ-32	200	32	30	1450
150BZ-40	200	40	37	1450
150BZ-50	200	50	45	1450
200BZ-20	400	20	45	1450
200BZ-32	400	32	55	1450

Mobile Pump Truck Sewage Pump

Our company employs professional technical staff and offers customized production, as well as self-priming pumps made from various materials. Our self-priming pumps feature a compact design and are easy to move; they can self-prime simply by adding water to the pump chamber, with a suction lift of up to 4–5 meters (subject to slight variations depending on on-site usage). This eliminates the need for repeated priming required by centrifugal pumps, earning widespread praise from our customers.

Our products are widely used in numerous fields, including municipal flood control and emergency response, urban manhole sewage treatment, industrial wastewater discharge, drainage stations for flood prevention systems, manufacturing and metallurgy, and agricultural irrigation.

Operating Instructions and Precautions for Mobile Pump Trucks!

Preparations Before Starting the Pump Truck

- I. Upon receipt of the goods, inspect them for completeness and check for any significant damage.
2. Connect the intake piping and ensure the clamps are securely fastened. Pay special attention to the pipe joints to ensure the intake piping is leak-free.
3. Before using the diesel engine for the first time, fill it with antifreeze, engine oil, and diesel fuel. Lubricate the pump bearing housing with engine oil or grease as instructed.
4. Before connecting the discharge hose, fill the pump chamber with clean water, and check that the discharge hose is airtight and securely connected.
- V. Correctly connect the battery's positive and negative terminals and verify that they are secure. Do not allow them to become loose or make a poor connection!

Starting the Diesel Engine

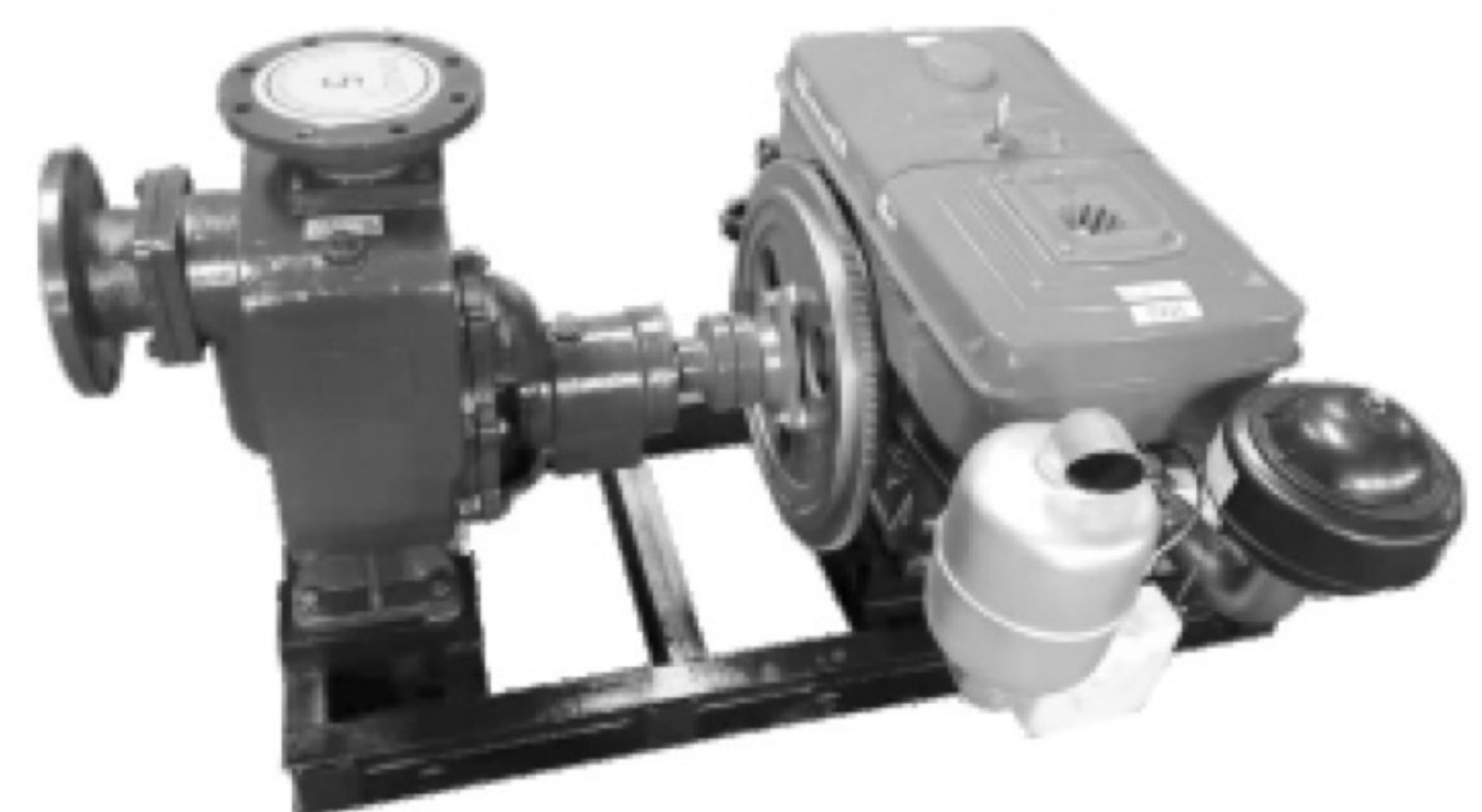
- I. Before using the diesel engine for the first time, bleed the air from the fuel intake line.
 1. Loosen the bleed screw on the fuel inlet line and repeatedly press the manual fuel pump.
 2. Once diesel fuel flows from the bleed screw without any bubbles, tighten the bleed screw.

II. Starting the Diesel Engine

1. Insert the key and turn it clockwise until the voltmeter displays a voltage.
2. Press the black start button to start the diesel engine.
3. Adjust the throttle linkage to the appropriate RPM and secure it; the water pump will then begin operating.

III. Stopping the Diesel Engine

1. Release the throttle lever until the engine is idling.
2. Turn off the key (for electronic fuel injection diesel engines, turning off the key will shut down the engine; step 3 is not required).
3. Push the shut-off lever to stop the diesel engine



Performance Specifications Table for Mobile Concrete Pump Truck Slurry Pumps

Model	Flow Rate (m ³ /h)	Head (m)	Diesel Engine Power (kW)	Speed (r/min)	Optional Accessories
3-inch pump unit	50	20	15-horsepower single-cylinder diesel engine	2,000	Paul coupling Vacuum-assisted Inlet hose Discharge Hose Clamp Hose Couplings Butterfly Valve Foot Valve One-Button Start Remote Control Supports various customizations
4-inch pump set	100	20	25-horsepower single-cylinder diesel engine	2,000	
4-inch pump set	100	80	490-42 kW	2,000	
6-inch pump set	200	20	30-horsepower single-cylinder diesel engine	2,000	
6-inch pump set	200	20	4100-30 kW	1,500	
6-inch pump set	200	32	4,100-30 kW	1,500	
6-inch pump set	200	40	4105-56 kW	1,800	
6-inch pump set	200	50	4105-63 kW	1,500	
8-inch pump set	300	15	4100-30 kW	1,500	
8-inch Pump Set	400	30	6105-100 kW	1,500	
10-inch pump set	500	15	4105-56 kW	1,500	
10-inch pump set	500	20	4105-63 kW	1,500	
10-inch Pump Set	500	30	6105-100 kW	1,500	
12-inch pump set	1,000	15	6105-100 kW	1,500	
12-inch Pump Set	1,000	20	6105-132 kW	1,500	
10-inch pump set Dual- intake Dual Outlet	500	15	4105-63 kW	1,500	
12-inch pump set Dual- suction Dual-outlet	1,000	15	6105-100 kW	1,500	

Mobile Concrete Pump Sludge Pump Parts Diagram

