



YPB TYPE VANE (SLIDE) PUMP

## YPB TYPE SLIDING VANE PUMP



### 1.Introduction:

YPB vane pump, its working principle is sliding vane in a slot in the rotor and rotor eccentricity on pump body, rotor turns, sliding vane sliding out inside the rotor, close to the sliding surface of the pump body, rotor, vane, pump body cavity is formed by the rotation of the rotor, the dimensional size of periodic change, cavity increases, breathing in medium, cavity become hour, discharge medium, the cycle, complete medium conveying process.

### 2.Theory:

YPB sliding vane pump, vane pump, its working principle is sliding vane in a slot in the rotor, rotor eccentricity on pump body, rotor turns, sliding vane sliding out inside the rotor, close to the pump body sliding surface, the rotor, vane, pump body cavity is formed by the rotation of the rotor.



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### 3.Product features:

(1) strong self-priming capacity Used for pumping underground tank, the hoisting height of 4.5 m.

(2) high efficiency in sliding vane pump, mechanical thrust by centrifugal force and liquid pressure of joint action, close to the stator curve movement, so that the pump has a unique efficiency.

(3) the performance unchanged since the adjustable vane Sliding vane sliding out from the rotor slot, replenishing the wear, and does not degrade the performance of the pump.The gear pump have substantial distinction.

(4) transmission fluid shear sensitivity Hydraulic vane, because of the design of highly efficient by sliding vane pump to drive the fluid shear and churn, avoids the resulting changes in fluid properties.

(5) reliable sealing According to the characteristics of the viscosity, high temperature medium, the use of special structure of the mechanical seal, have the characteristics of safe, durable and reliable.

(6) maintenance is simple and convenient Open the pump cover,



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and put forward the old sliding vane and insert it into the new sliding vane. Just a few minutes, your pump can be back to work. Daily check as easily.

### **4. Advantages:**

YPB series self-priming rotary vane pump, the built-in relief valve, with the blade rotor drive liquid. In the light of the nodular cast iron with self-lubricating material of blade. Because of its good performance, can transmit viscosity and volatile liquid, compared with the same pump power is lower. In the transmission of low speed heavy traffic. Fast, low noise, use for a long time; Vane structure make it reliable and trouble-free service.

YPB vane pump has more advantages and strong self-priming capacity, long life, small volume, high efficiency. In transport gasoline, diesel or similar media, under the condition of vane pump has the very big advantage, is a substitute for self-priming centrifugal pump and copper wheel gear pump.

### **5. Application:**

Oil tank truck, ship fuel, lubricating oil, jet fuel, oil, chemicals, gasoline, diesel oil, biological fuel, solvents etc.



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### 6. Install and use:

This pump is widely used in mobile or fixed device. This pump can be installed on any oil tanker, can also be connected to the motor or diesel engine, according to the metal on the floor, used in any large flow or flow immersible pump-based fuelling equipment.

### 7. YPB type pump parameters:

Model	Capacity M3/h	Pressure Mpa	Speed R/min	Vacuum -Mpa	Self-priming m	Efficiency %	Motor power KW	Motor model
50YPB-8	8	0.4	960	0.025	6	75	1.5	Y100L1-6-1.5
50YPB-12	12	0.4	1450	0.030	6.5	76	3	Y112M-4-4
60YPB-16	16	0.6	960	0.030	6.5	76	4	Y132M1-6-4
60YPB-24	24	0.4	1450	0.040	7	79	5.5	Y132S-4-5.5
65YPB-35	35	0.6	960	0.045	6.5	77	5.5	Y132M2-6-5.5
80YPB-60	60	0.4	960	0.045	6.5	79	7.5	Y160M-6-7.5
100YPB100	100	0.6	960	0.045	6.5	79	15	Y180L-6-15