

Micro Diaphragm Liquid Pump

Datasheet



- Printing
- Laboratory
- Medical equipment
- Analytical instruments



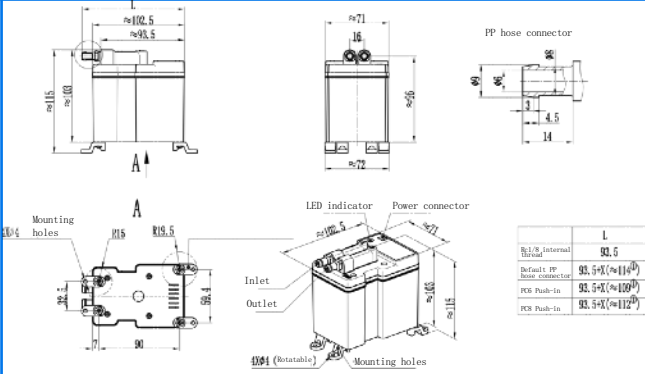
Performance Data							
Model	Voltage (V DC)	As Gas Pump			As Liquid Pump		
		Max. Load Current (mA)	Max. Average Flow rate (L/min)	Max. Vacuum (-kPa)	Max. Load Current (mA)	Free Flow Rate (L/min)	
Material Option A	Diaphragm:EPDM	Valves:EPDM	Pump Head: Fiber reinforced PA6				
WJY1802A	24	≤500	≥1.6	≥18	≤550	≥2	
WJY2703A	24	≤520	≥2.4	≥27	≤620	≥3	
WJY4006A	24	≤800	≥4	≥33	≤1800	≥6	
Note: The input voltage requires 24V±10%							

PERFORMANCE DATA				
Model	Max. Suction Height (mWg)	Flow Rate@ Max. Suction Height	Max. Pressure Heigh (mWg)	Flow Rate@ Max. Pressure Heigh
WJY1802A	1.8	1500mL	7	800mL
WJY2703A	2.7	1600mL	7	1500mL
WJY4006A	3	3200mL	10	mL

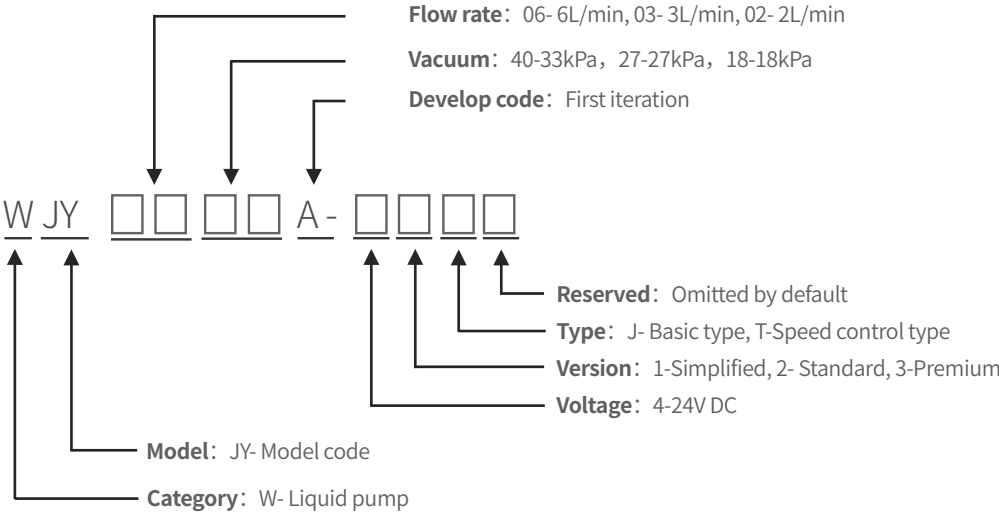
CONFIGURATION OPTIONS			
Material Options			
Pump Head	Fiber reinforced PA6		
Diaphragm	EPDM		
Valves	EPDM		
Motor	BLDC		
Connector Options			
	Default PP hose connector/Stainless steel hose connector/PC6 push-in quick connector/ PC8 push-in quick connector /PA Rc1/8 inside thread		
Function Options			
	Basic	Frequency speed control	

RELIABILITY DATA				
Models	WNY600A WNY1000A			
Versions	Simplified	Standard	Premium	
Fully Loaded Lifetime (hrs)	3500	6000 *WJY4006A is under testing	10000 *WJY4006A is under testing	
Unloaded Lifetime (hrs)	8000	12000	18000	
Motor Lifetime (hrs)	10000	15000	20000	
Test conditions	In a clean and non-corrosive laboratory, the pump is fully loaded (continuous pumping water) or unloaded (the inlet and outlet are directly connected to the atmosphere), and runs continuously around the clock; ambient temperature: 5°C~33 °C, relative humidity: 50%-85%, fluctuates with the climate.			
Working Condition				
Operating temperature	Permissible ambient temperature is 0°C~50°C, it is not suitable to be exposed to the sun, and it should work in a clean and ventilated environmen			
Medium	Permissible temperature of the liquid medium is 5°C~50°C and gaseous media is 0°C~50°C , the transferring gas cannot contain solid particles or oil mist. It is not allowed to pump oily liquid and high viscosity liquid.			
Wetted materials	EPDM, fiber reinforced nylon, tolerance to alcohol, acid, alkali, etc. (except strong acid, concentrated acid, lipids, benzene, gasoline, etc.)			

WJY DIMENSIONS



WJY MODEL KEY



ACCESSORIES		
Descriptions	Illustration	Function
Shock-isolation mounting feet		Reduce the impact of vibration on the equipment during the operation of the pump. This accessory comes with the pump*4
Filter		The 80-mesh filter protect both pumps and other upstream instrumentation and hydraulic circuits against particulate, crystals and fibers . It is recommended to replace it regularly. This accessory comes with the pump*1
Check valve		Enhance the cut-off capability of the gas circuit system to ensure one-way gas flow. This accessory can be purchased on demand
Flow stabilizer		Eliminate and reduce pulsation, make gas output smooth and stable, this accessory can be purchased on demand
Manual control valve		It can be used to manually adjust the gas flow rate, pressure and vacuum. This accessory can be purchased on demand
DC power adapter		220V AC to DC switching power supply, this accessory can be purchased on demand
Silencer		It is used to eliminate and reduce the airflow noise caused by pumping operation, this accessory can be purchased on demand



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