#### **VTY Flow Control**

# Micro Vacuum Pump



#### Datasheet





# Highlights

- Low electromagnetic interference
- Various specifications in series and paralle
- Long service life under max load
- Continuous operation with max loac
- Low noise level and vibration

- Driven by BLDC motor
- Industrial-grade reliability
- Good air tightness
- High vacuum
- Compact size

# **Applications**

- Gas sampling
- Medical equipment
- Analytical instruments
- Vacuum suction

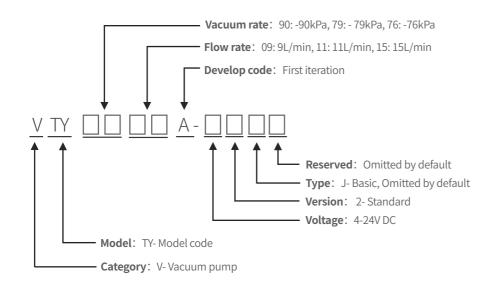
15K hours lifetime test

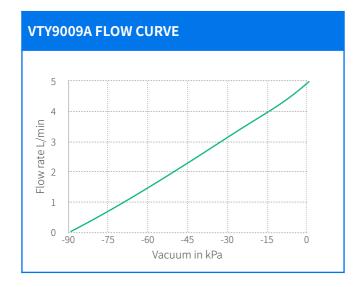
Model	Voltage (V DC)	Max. Load Current (mA)	Max. Peak Flow rate (L/min)	Max. Average Flow rate (L/min)	Max. Vacuum (-kPa)	
erial Option A	Diaphragm:EF	Diaphragm:EPDM Valves:EPDM Pump Head: Fiber reinforced nylon				
VTY9009A	24V	≤500mA	≥9	≥5	≥90	
VTY7611A	24V	≤500mA	≥11	≥10	≥76	
VTY7915A	24V	≤500mA	≥15	≥11	≥79	
	Note: The peak flow refers to the flow value measured by the rotameter, and the average flow refers to the flow value measured by the soap film flowmeter					

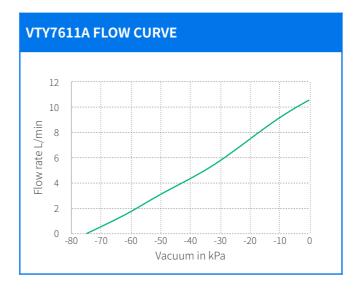
CONFIGURATION OPTIONS			
N	Material Options		
	Pump Head	Fiber reinforced PA6	
	Diaphragm	EPDM	
	Valves	EPDM	
	Motor	BLDC	
Co	onnector Options		
		PA hose connector	
F	unction Options		
		Basic type	

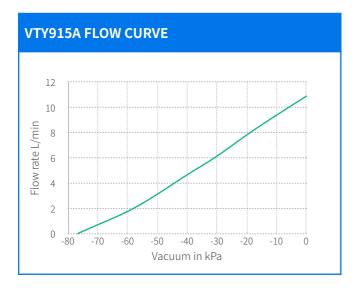
RELIABILITY DATA					
Models	VTY Series				
Versions	Standard				
Fully Loaded Lifetime (hrs)	8000 estimated (under testing)				
Unloaded Lifetime (hrs)	12000 estimated (under testing)				
Motor Lifetime (hrs)	15000				
Test conditions	In a clean and non-corrosive laboratory, the pump is fully loaded (the outlet is blocked, the inlet is directly connected to the atmosphere) or unloaded (the inlet and outlet are directly connected to the atmosphere), and runs continuously around the clock; ambient temperature: $5^{\circ}$ C $\sim$ 33 $^{\circ}$ C, relative humidity: $50^{\circ}$ 85%, fluctuates with the climate.				
Working Condition					
Operating temperature	Permissible ambient temperature is 0°C $\sim$ 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 medium is 5°C $\sim$ 50°C, the transferring gas is allowed to be rich in water vapor, but cannot contain solid particles				
Wetted materials	EPDM, fiber reinforced nylon, tolerance to alcohol, acid, alkali, etc. (except strong acid, concentrated acid, lipids, benzene, gasoline, etc.)				

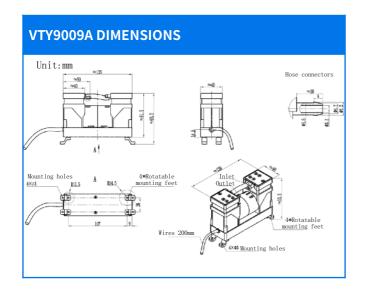
#### **VTY MODEL KEY**

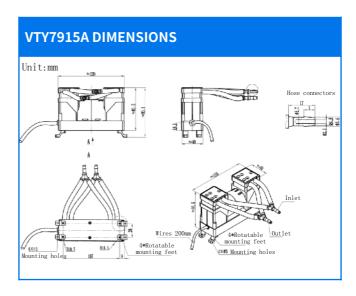


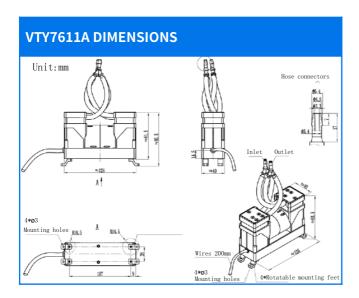












ACCE	SSORIES		
Descriptions	Illustration	Function	
Shock-isolation mounting feet		Reduce the impact of vibration on the equipment during the operation of the pump. This accessory comes with the pump*4	
Filter	<b>%</b>	The 80-mesh filter protect both pumps and other upstream instrumentation and hydraulic 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	Assessment of the second of th	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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Create value for customers by offering high quality fluid solutions

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