S18 Micro Diaphragm Liquid Pump

S18LS-BA

5/12

0.43/0.18

230



Datasheet



S18LS-DC	5/12	0.31/0.15	220	100	3.0	0.16/0.07	230	35	55
Material KS KV	Diaphragm:PTFE Valves:FFKM Pump Head: PPS(KS) or PVDF(KV)								
S18LS-BL	5/12	0.45/0.22	160	50	3.0	0.23/0.12	200	35	55
S18LS-BA	5/12	0.50/0.20	190	100	3.0	0.30/0.11	200	35	55

100

This parameter is a preliminary calibration parameter before the official release of the product, and may be further revised with subsequent product releases, and is for evaluation and reference only

3.0

0.24/0.11

260

35

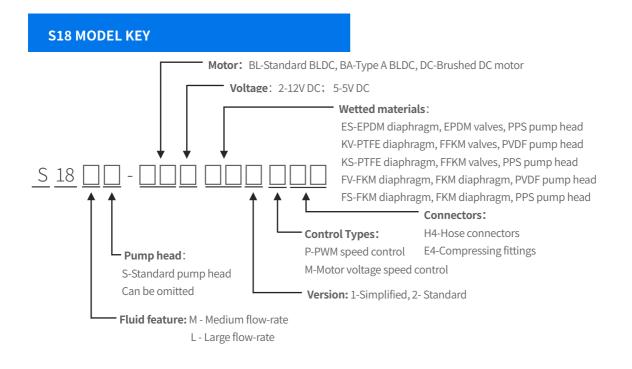
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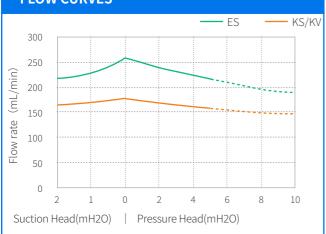
PERFORMANCE DATA									
		As Liquid Pump				As Gas Pump			
Model	Voltage (V DC)	Max. Load Current (A)	Free Flow Rate (mL/min)	Max. Pressure (kPa)	Suction Height (mH2O)	Max. Load Current (A)	Max. Gas Flow rate (mL/min)	Max. Vacuum (-kPa)	Max. Pressure (kPa)
Material ES	Material ES Diaphragm:EPDM Valves:EPDM Pump Head: PPS								
S18MS-BL	5/12	0.27/0.13	220	50	2.0	0.18/0.08	190	24	35
S18MS-BA	5/12	0.33/0.15	200	100	2.0	0.24/0.11	180	24	35
Material KS KV Diaphragm: PTFE Valves: FFKM Pump Head: PPS(KS) or PVDF(KV)									
S18MS-BL	5/12	0.33/0.15	150	50	2.0	0.21/0.10	150	24	35
S18MS-BA	5/12	0.38/0.15	160	100	2.0	0.27/0.10	150	24	35
	This parameter is a preliminary calibration parameter before the official release of the product, and may be further					o further			

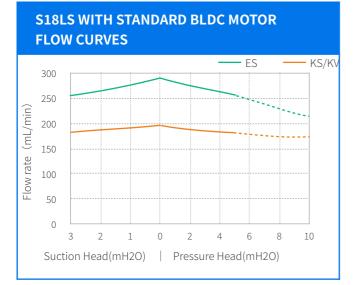
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CONFIGRATIO	CONFIGRATION OPTIONS				
Material Options	Defalut	Optional Items			
Pump Head	PPS	PVDF			
Diaphragm	EPDM	PTFE	FKM		
Valves	EPDM	FFKM	FKM		
Motor	Standard BLDC	Type A BLDC	DC Motor		
Connector Options					
	Hose connector	Compress	sion fittings		
Pump head Options					
	Standard pump head	p head Dual diaphragm pump			

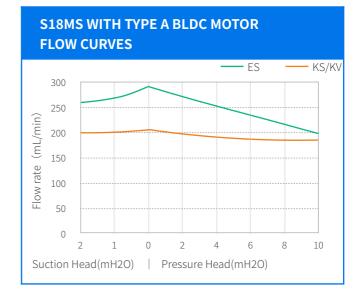
RELIABILITY DATA						
Models	S18					
Versions	Simplified Equipped with DC motor	Standard Equipped with BL/BA motor				
Fully Loaded Lifetime(hrs)	1000*	2000*				
Unloaded Pumping Lifetime(hrs)	2000*	6000*				
Motor Lifetime (hrs)	2500*	8000				
Test conditions	In a clean and non-corrosive laboratory, the pump is fully loaded (pumping water at the highest rated pressure) or unloaded (continuous pumping water), and runs continuously around the clock; ambient temperature: 5°C~33 °C, relative humidity: 50%-85%, fluctuates with the climate. *Represents design life target, actual product life is being tested					
Working Condition						
Operating temperature		°C, it is not suitable to be exposed to the sun, and it n 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, PPS as default, a wide range of corrosion-resistant materials are available. tolerance to alcohol, acid, alkali, etc. (except strong acid, concentrated acid, lipids, benzene, gasoline, etc.)					

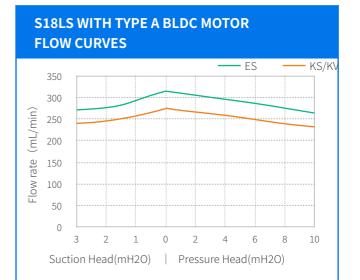




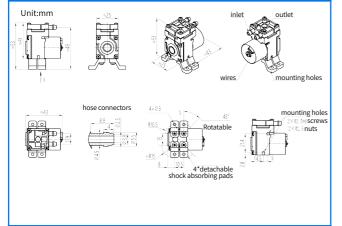


S18MS WITH STANDARD BLDC MOTOR FLOW CURVES

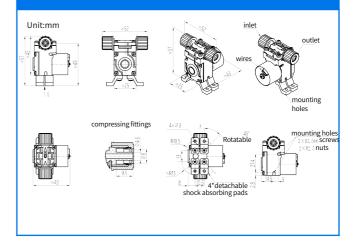




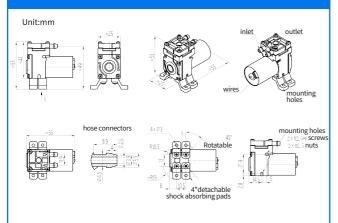
S18 WITH STANDARD BLDC MOTOR & H4 HOSE CONNECTORS DIMENSIONS



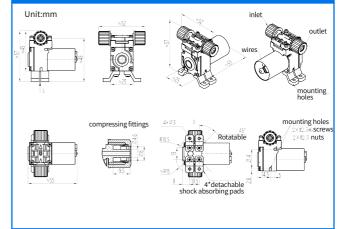
S18 WITH STANDARD BLDC MOTOR& E4 COMPRESSING FITTINGS DIMENSIONS



S18 WITH TYPE A BLDC MOTOR & H4 HOSE CONNECTORS DIMENSIONS

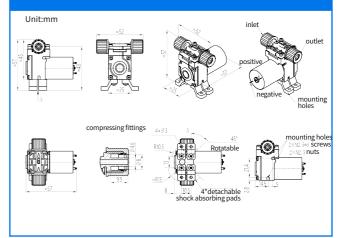


S18 WITH TYPE A BLDC MOTOR& E4 COMPRESSING FITTINGS DIMENSIONS



S18 WITH BRUSHED DC MOTOR & H4 HOSE CONNECTORS DIMENSIONS

S18 WITH BRUSHED DC MOTOR& E4 COMPRESSING FITTINGS DIMENSIONS



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		
Back pressure relief valve)	Back pressure safety valve, when the back pressure exceeds the safety range, it will open to relieve the pressure to protect the the liquid system and the pump from overpressure damage . This accessory is available for purchase 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		



To be a driving force in innovation of human fluid technology

Create value for customers by offering high quality fluid solutions

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