

D40 Series Micro Piston Vacuum Pump & Compressor



Datasheet



Highlights

- Long service life under max load
- Can be restarted with max load
- Rich pressure and flow options
- Modular connector options
- Driven by BDC or BLDC motor
- Industrial-grade reliability
- Up to 5 Bar high pressure
- Compact size

Applications

- Gas sampling
- Medical equipment
- Analytical Instruments
- Pneumatic drive

3500 hours
lifetime test

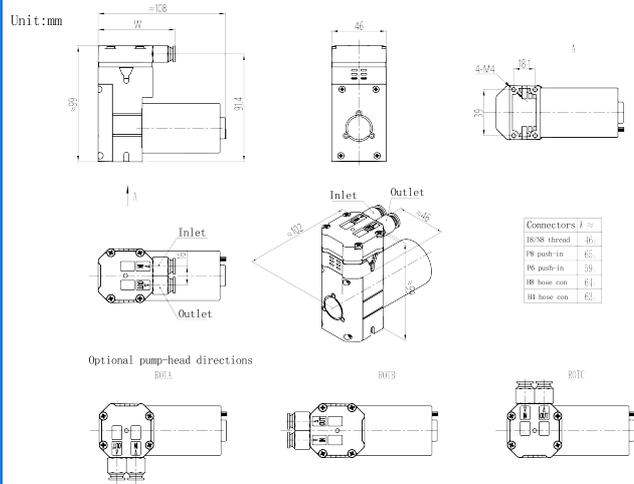


PERFORMANCE DATA

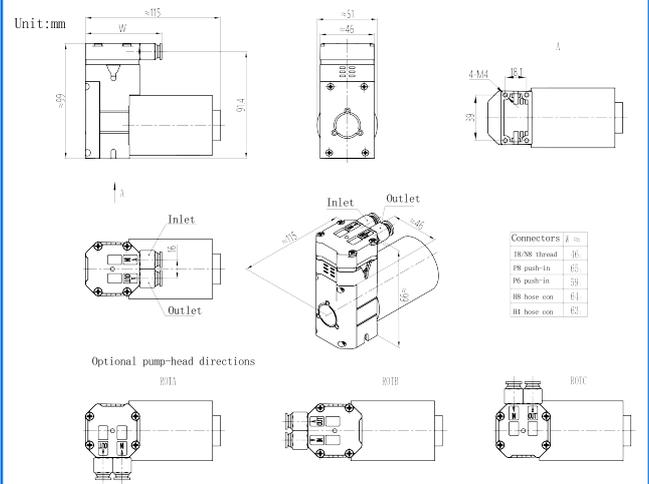
Model	Voltage (V DC)	Max. Load Current (mA)	Max. Peak Flow rate (L/min)	Max. Average Flow rate (L/min)	Max. Vacuum (-kPa)	Max. Pressure (kPa)	Weight (g)
BDC Configuration	Piston:PTFE Valves:FKM Pump Head: PA6 Cylinder: Aluminum						
D40H-DC4	24	≤1.1	≥12.5	≥8.3	≥66	≥440	≈695
D40H-DC2	12	≤2.2	≥12	≥8.0	≥66	≥430	≈695
D40P-DC4	24	≤1.2	≥8.5	≥6.0	≥68	≥540	≈695
D40P-DC2	12	≤2.5	≥7.5	≥5.6	≥68	≥530	≈695
BLDC Configuration	Piston:PTFE Valves:FKM Pump Head: PA6 Cylinder: Aluminum						
D40H-BL4	12	≤1.0	≥12	≥7.0	≥60	≥300	≈575
D40H-BL2	24	≤2.0	≥12	≥7.0	≥60	≥300	≈575

Note: The above data are measured at 101.3kPa standard atmospheric pressure and rated voltage.
Peak flow refers to the flow value measured by the rotor flowmeter,
average flow refers to the flow value measured by the soap film flowmeter.

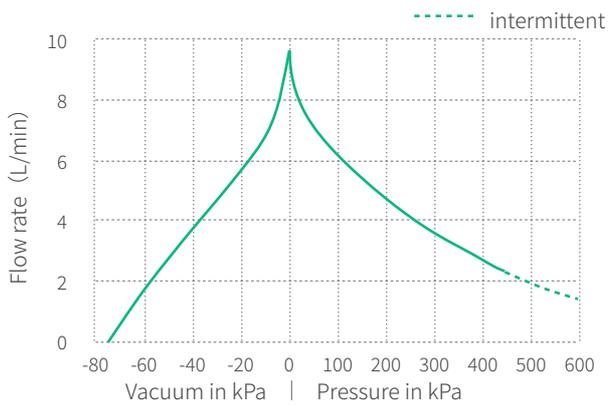
D40 WITH BRUSHED DC MOTOR DIMENSIONS



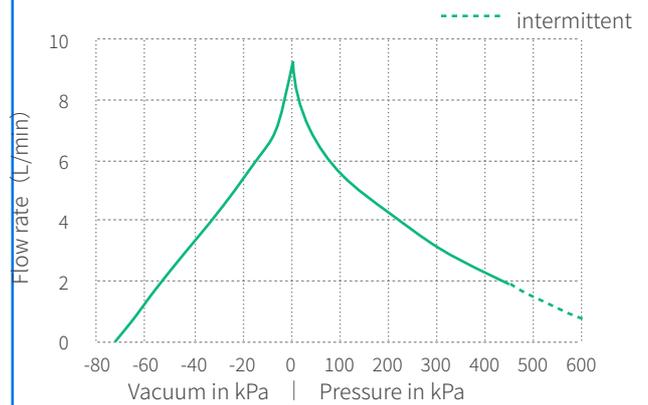
D40 WITH BLDC MOTOR DIMENSIONS



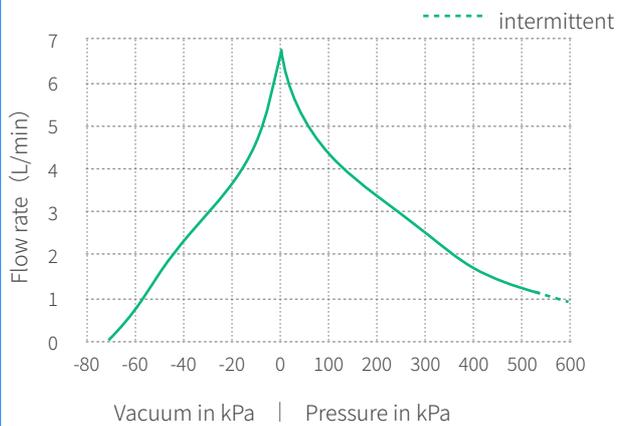
D40H-DC4 PRESSURE-FLOW CURVE



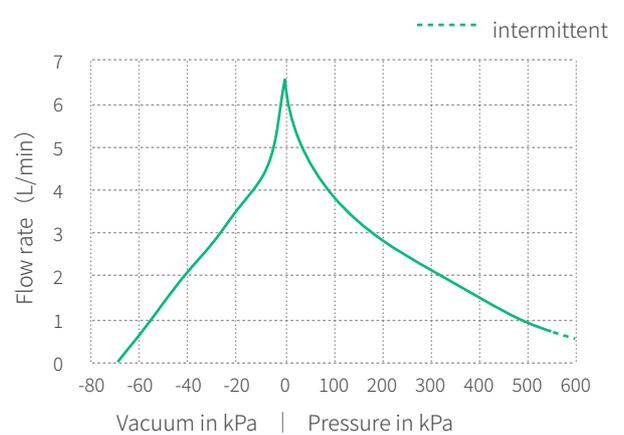
D40H-DC2 PRESSURE-FLOW CURVE



D40P-DC4 PRESSURE-FLOW CURVE



D40P-DC2 PRESSURE-FLOW CURVE



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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