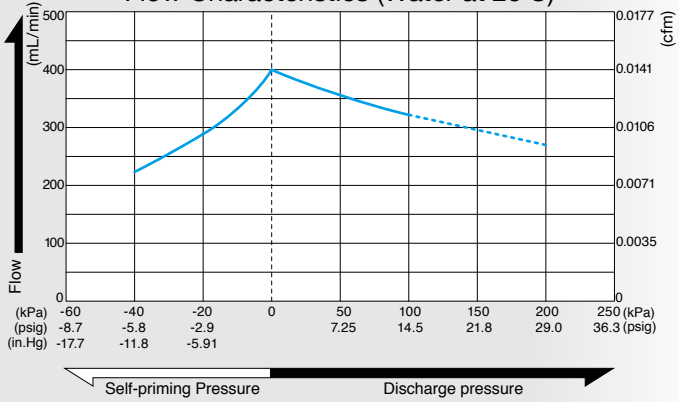
DC Liquid Pump

Model DPE-400BL

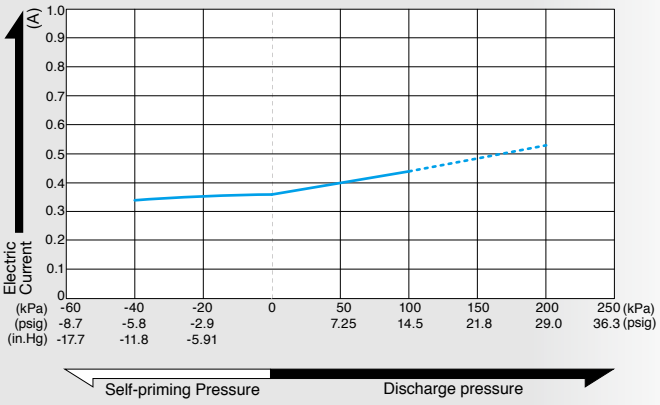
Brushless DC Motor **12 V / 24 V DC**

Flow & Electric Current

Flow Characteristics (Water at 25°C)



Current Characteristics



Specifications

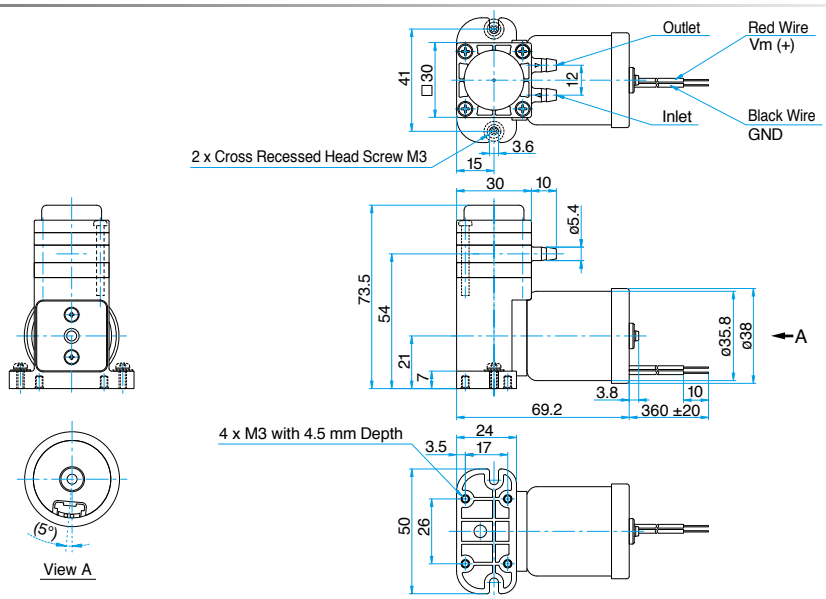
Rated Voltage	12 V / 24 V DC
Flow Rate *1	400 mL/min 0.0141 cfm
Working Pressure Range	0 to 100 kPa 0 to 1 bar 0 to 14.2 psig
Maximum Pressure *2	300 kPa 3 bar 42.7 psig
Maximum Current	900 / 450 mA
Duty Cycle	Continuous
Rated Performance (MTTF)	6,000 hours
Self-priming Pressure *1	40 kPa 0.4 bar 5.69 psig
Inlet	5.4 mm O.D. straight barb
Outlet	5.4 mm O.D. straight barb
Insulation Classification	A class equivalent
Mounting Dimensions	41 (W) mm 1 - 39/64 "(W)
Weight	230 g 0.507 Lbs
Motor	Brushless DC Motor

*1. At low temperature, the performance may reduce.
*2. Pumps may not re-start against high backpressure.

Material of wetted parts and applicable fluids

Model	Cylinder Head	Head Cover	Diaphragm	Valve	O-ring	Applicable fluids
DPE-400BL-2E	PA Polyamide(Nylon)		PTFE Polytetrafluoroethylene	EPDM Ethylene-propylene rubber		Sodium hydroxide, Citric acid Ammonia water, Caustic potash
DPE-400BL-2G				FKM Fluoro rubber		Ethanol, Ethylene glycol Sodium carbonate, mineral oil
DPE-400BL-7G	PPS Polyphenylene sulfide					Xylene, Carbon tetrachloride Trichloroethylene, Silicon oils
DPE-400BL-7P				FFKM Perfluoroelastomer		Chloroform, Benzene Glacial acetic acid, Methyl ethyl ketone

Application Examples

- Liquid analytical instruments e.g. medical, food, water treatment & environmental.
- Liquid transport within filtration, sampling, sterilizers and washers.
- Ink transport within industrial ink-jet printers.

External Dimensions (Unit: mm)