mVPRO B

MICRO VANE PUMP WITH 24VDC BRUSHLESS MOTOR

61A1DDF2QAX
61A1DCF2QAX
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Features and Benefits

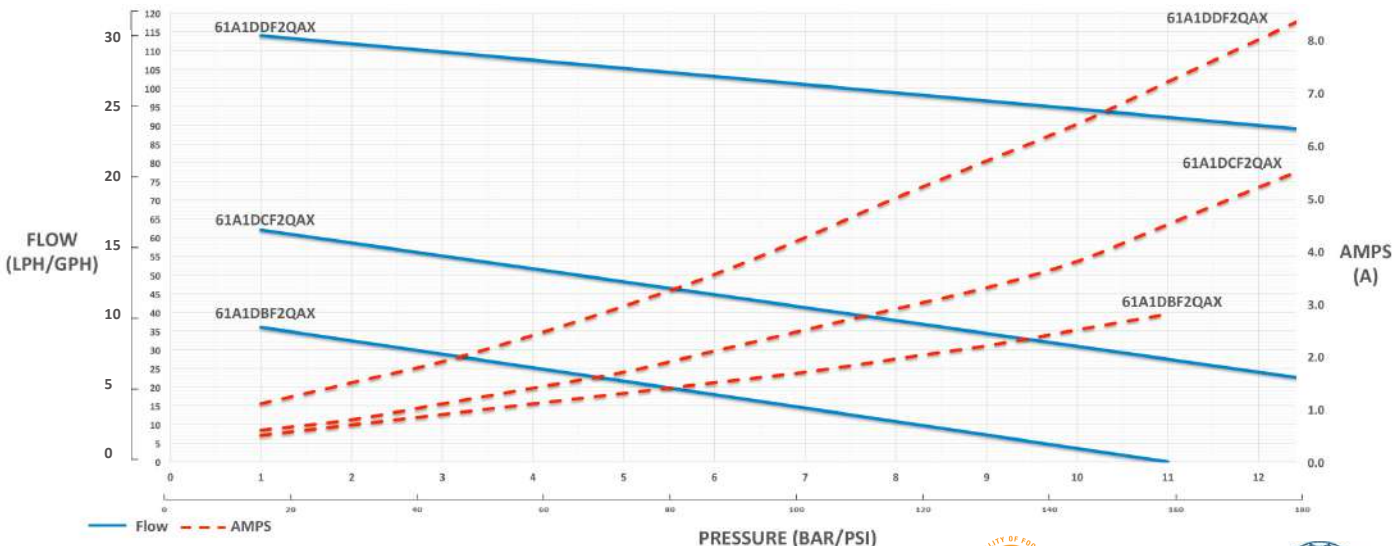
- Self priming (water) and maintenance free
- Consistent flow rate across variable pressures
- Compact unit with 24Vdc Brushless motors without controller
- Flow range from 10 to 100 LPH (3 to 35 GPH)
- Patented twin cavity and cam ring technology
- Eight vanes for low vibration and pulsation
- Stainless steel housing works with acidity > 2 pH

General Applications

Espresso/Coffee
Beer Chillers
Pesticide Systems
Solar Applications
Cooling Systems
Medical Devices

Technical Information			
Housing and motor shaft	304 Stainless Steel	Motor Type	24V Brushless DC Dual Direction
Gears and Bushing	Carbon Fiber PEEK	Max Speed	3000 RPM
Seals	Carbon / Silicon Carbide	Max Output Power	80W
Elastomers	Nitrite / EPDM	Max. Input Current	4A
Valves	Plastic (ultem & acetal)	Motor IP Protection	IP41
Ports	G 1/8"	Insulation Class	B
Unit Weight	1.1 kg (2.5 lbs.)	Speed Control	0-5V (needs controller)

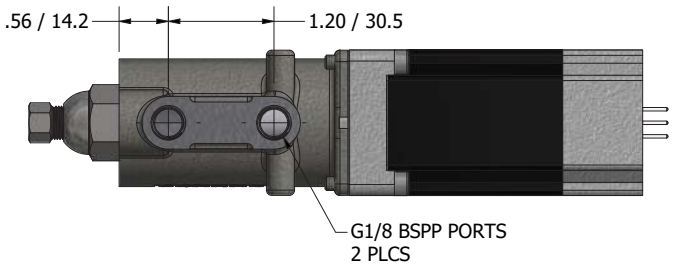
Operating Range			
Max. Fluid Viscocity	100 Centipoise [2]	Fluid Temperature	-20° to 90°C (-4° to 194°F)
Max Vacuum Dry	1 M (3.3 ft)	Max Static Pressure	7 bar (100PSI)
Max Vacuum Wet	2 M (6 ft)	Max Discharge Pressure (Intermittent)	12.5 bar (180 PSI)

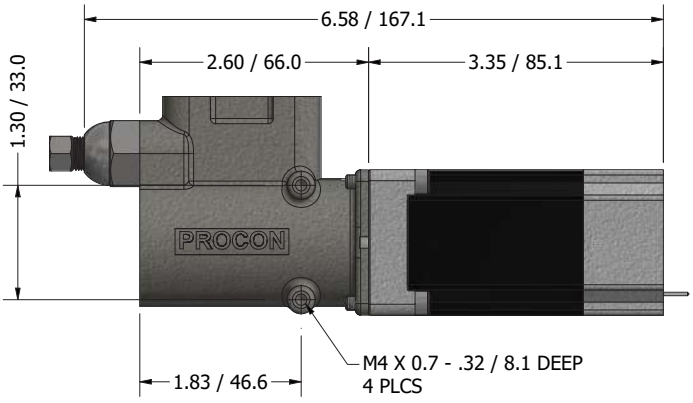


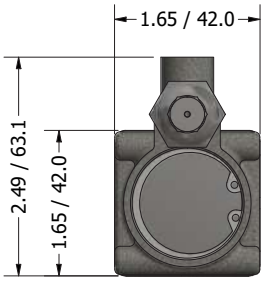
NSF RoHS CE TIFQ Product Compliant Reg.EC No 1935/2004 ISO 9001:2015

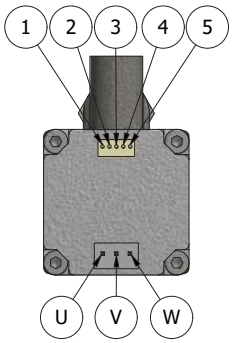
DIMENSION AND CONNECTION DETAILS

NOTES:
[1] Flow curve based on pump tested @ 1800 RPM
[2] Flow curve based on pump tested with water at room temperature
[3] Flow may vary with viscosity









NOTE: Dimensions are in inches/millimeters

Motor Connection			
PIN	Signal Connector	PIN	Motor Plug
1	Power Supply +24 V	U	Motor
2	Power Supply GND	V	Motor
3	Hall U	W	Motor
4	Hall V		
5	Hall W		

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