

EVP Liquid Pump

Patented piezo actuator technology



Low Power, Modular Pump

Parker's new EVP liquid pump is a low power, modular pump suitable for use with a wide variety of non-corrosive and mildly corrosive fluids. Using patented piezo actuator technology, the EVP offers accurate flow control between 0 and 200 mL/min at pressures up to 5 psig or up to 10 in. H₂O of vacuum. In addition to precise flow control and low power consumption, the piezo actuator also offers superior life to many mechanical pumping technologies.

Features & Benefits

- Piezo-based pump offers high accuracy flow with minimal power consumption — less than 100 mA draw typical at 12 VDC
- Store flow set point in onboard circuitry to ensure repeatable operation
- Multiple body styles allow for use of threaded connections or face seal/manifold mount connection
- Compatible with a wide range of non-corrosive fluids ranging from diesel fuel to water
- Piezo actuator capable of wide operating temperature range: -30 to 80°C

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PRELIMINARY PRODUCT INFORMATION

EVP Liquid Pump

Physical Properties

Technology:

Piezo Actuated Diaphragm

Media:

Non-Corrosive and Mildly Corrosive Liquids

Operating Environment:

-30 to 80°C

Storage Environment:

-30 to 80°C

Dimensions:

Upright Configuration

Length: 1.03" (26.2mm)

Width: 1.20" (30.5mm)

Height: 1.75" (44.5mm)

Manifold Configuration

Length: 1.63" (41.4mm)

Width: 1.21" (30.7mm)

Height: 0.71" (18.0mm)

Porting:

Face seal, 1/4-28 Threads

Wetted Materials:

Acetal/Delrin, 316 Stainless, Viton, Aluminum

Performance Characteristics

Pressure Ranges (PSIG):

0-5

Vacuum Range:

10" H₂O

Max Unrestricted Flow:

0-200 mL/min (Distilled Water)

Electrical Requirements

Main Power:

12 VDC +/- 10%

Input Control:

0-2.5 VDC

Current Requirements:

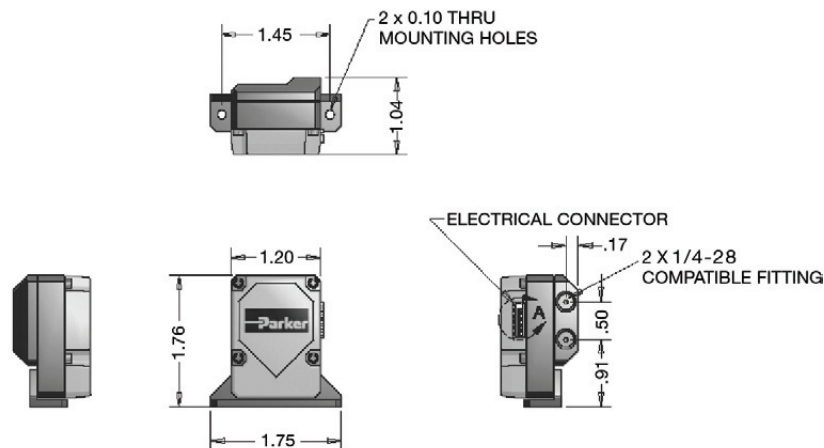
100 mA

Electrical Requirements:

4 pin, 24" harness included

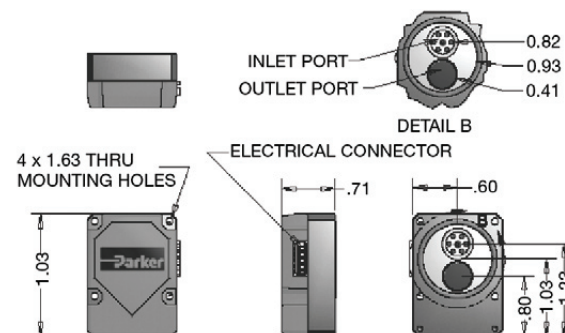
Installation

Upright Threaded Fitting



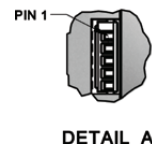
Dimensions shown are in inches

Face Seal, Manifold Mount



Electrical Connection Details

PIN	CONNECTION DETAILS		NOTES
	DESCRIPTION	WIRE COLOR	
1	+ VDC	RED	12VDC +/- 10%
2	COMMON	BLACK	
3	CONTROL INPUT, FREQUENCY	BLUE	0 - 2.5 VDC
4	CONTROL INPUT, VOLTAGE	YELLOW	0 - 2.5 VDC



Ordering Information

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