

HIGH PRECISION

# MINIATURE GEAR PUMPS

HIGH POWER DENSITY - CUSTOMIZABLE - CERTIFIED QUALITY



**"1000 PSI IN THE PALM OF YOUR HAND"**

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**FLIGHT  
WORKS, Inc.**

[WWW.FLIGHTWORKSINC.COM](http://WWW.FLIGHTWORKSINC.COM)



# COMPANY

Since 2001, Flight Works, Inc. has specialized in the design and manufacture of miniature external gear pumps. These pumps are unique in their combination of high power density with low weight in a very small footprint. Pulseless operation, reversible flow, and low current draw are just a few advantages of the Flight Works micropump. Customization is supported by in-house engineering and manufacturing teams, and Flight Works prioritizes customer satisfaction and quality products above all else. Whatever the application, or requirements, Flight Works will work to meet your micropump needs.



# FLIGHT WORKS PRODUCT SERIES

Flow Rate Range	0.3 to 400 mL/min	0.3 to 1,100 mL/min	0.3 to 2,300 mL/min
Max Pressure	150 psid	200 psid	Over 1000* psid
Size	D: 20 to 24 mm L: 36 to 58 mm Weight: 60 to 105 g	D: 22 to 30mm L: 50 to 100mm Weight: 95 to 500 g	D: 22 to 30mm L: 75 to 150mm Weight: 105 to 550 g
Fluid	Non-corrosive 0 to 85 °C 2 to 100 cSt	Non-corrosive 0 to 100 °C 2 to 100 cSt	Corrosive, hazardous -30 to 150 °C** <0.5 to 100 cSt

\*Fluid Dependent

\*\*With special configuration

# PRODUCT EXAMPLES (ACTUAL SIZES)

36mm

**2204-C05**

Flow Rate	Max. Pressure	Nominal Current
0.3-40 mL/min	100 psid	0.1 Amps

62mm

**2232-X03**

500 mL/min	200 psid	0.5 Amps
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125mm

**2282-M05X10**

2,300 mL/min	1000* psid	2.5 Amps
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\*Fluid Dependent

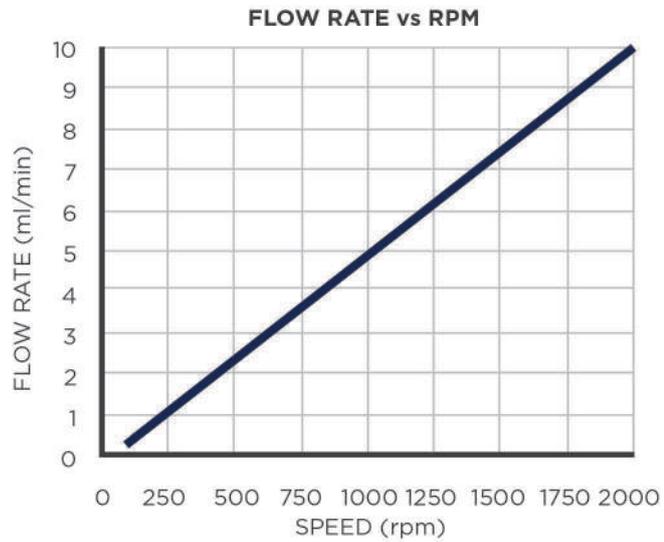
# PRODUCT EXAMPLES

## 2204-C05 / ULTRA-LOW FLOW



- 0.3 to 40 mL/min
- 0-100 psid
- High accuracy/precision with 512-count encoder option

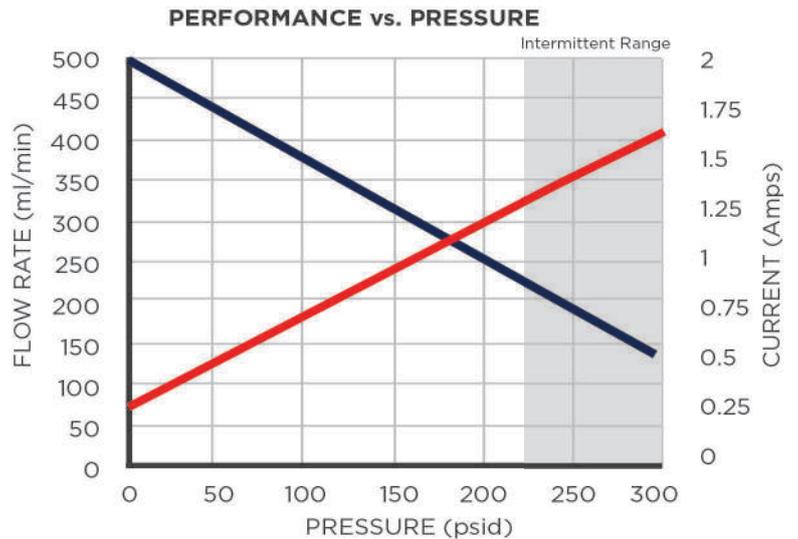
— Flow Rate — Current @ 24V



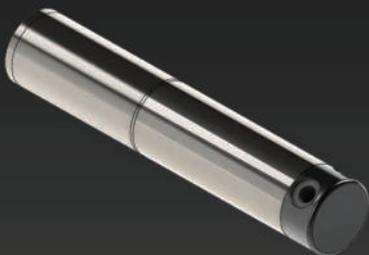
## 2232-X03 / BRUSHLESS FUEL PUMP



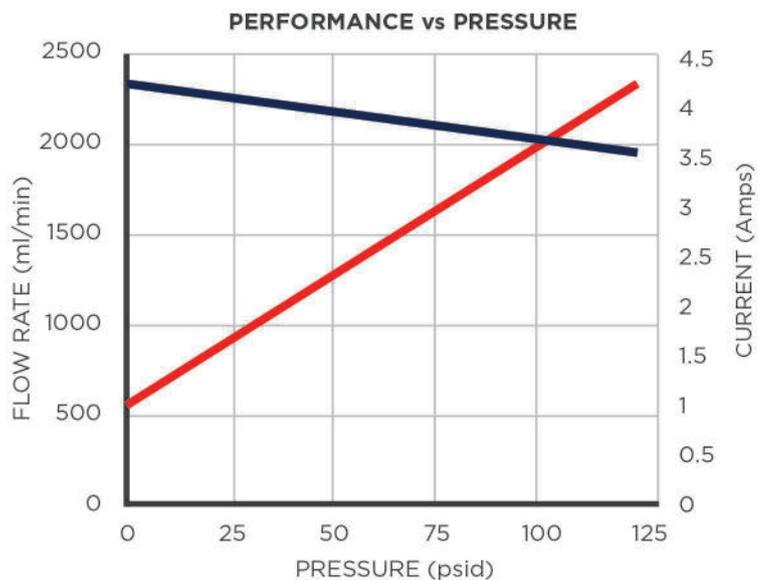
- Up to 500 mL/min
- Continuous operation @ 200+ psid
- Compatible with full range of fuels, from gasoline to JP-8
- Reliable for hundreds of hours
- Various control options



## 2282-M05X10 / HIGH-PERFORMANCE MAGNETIC DRIVE PUMP



- Up to 2,300 mL/min
- Up to 1000 psid with viscous fluids
- High torque capabilities for hydraulic applications



# CAPABILITIES

- ISO9001/AS9100C certified quality system
- In-house manufacturing for major pump components (CNC machining, cylindrical grinding, etc.)
- Experienced engineering team dedicated to product design and custom development projects
- Highly customizable configurations, including options for:
  - Low-flow and precise control
  - Aggressive/hazardous fluids
  - High-pressure systems



ENGINEERING



MANUFACTURING



INSPECTION

# APPLICATIONS



AEROSPACE



MEDICAL  
& LABORATORY



FOOD/BEVERAGE  
& PHARMACEUTICAL



ENERGY



COMMERCIAL



MOTOR SPORTS

## CONTACT US

## ABOUT US

Flight Works, Inc. is an Original Equipment Manufacturer founded in 2001 to meet a growing demand for miniature liquid pumps. Now specializing in several demanding applications and industries, Flight Works combines experience in design, manufacturing, integration, and testing to meet a wide variety of customer requirements.

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