OLYMPIC CONTROLS
CORPORATION

DESIGN QUALITY, CUSTOM DEVELOPMENT SERVICES AND 50+ YEARS OF MANUFACTURING EXCELLENCE.

OUR OFFER:

Made in the U.S.A., custom components as well as assemblies for commercial, industrial and military applications developed to exceed all customer expectations—even the military's.

OUR ADVANTAGE:

- Extensive, full-service capabilities in our 20,000 sq. ft. facility from prototype to production through manufacturing.
- A cost competitive, legacy-leader with 50+ years of solid, generational leadership.
- The winning combination of an experienced team and hands-on management.
- CAD/CAM services to support the design stage.

OUR SPECIALTIES:

- 100% commitment to continuous improvement of our design, development and manufacturing quality system.
- On-time delivery.
- Sourcing hard to find needs.
- Product expertise with technical schematics.
- Customized, defect-free prototypes.
- Producing products to the precise requirements our customers need—and we demand.

We are family-owned and operated. Ready to stand in as your full-service legacy partner. You can have pride in saying you source your products in the U.S. when you align with Olympic Controls Corp.

FUEL PUMPS

- BRUSHLESS ★NEW MODEL★
- BRUSHED
- PUMP-AND-BRACKET
- PUMP-IN-A-CAN
- 12V, 24V, 28V, 32V

"IT'S RATHER REASSURING TO HAVE MORE THAN HALF A MILLION TRUCK DRIVERS + TANK COMMANDERS BEHIND YOU."

OVERVIEW:

ELECTRIC FUEL PUMP

STAINLESS STEEL MOTOR HOUSING

TERMINAL & CABLE [STYLE, LENGTH & LOCATION OPTIONAL]

FUEL DISCHARGE OUTLET TUBE: 1/4" ID 3/8" ID 1/2" ID 5/8" ID

MAX HEIGHT 6.56"

MAX DIA. 3.9"

MAGNETIC COUPLING

ASK ABOUT OUR CUSTOMIZED OPTIONS AVAILABLE FOR YOUR PRODUCT LINE.

WE ARE 'THE ORIGINAL'. tough, submersible, electric fuel pumps designed to meet the high demands and severe standards of the military—including 37 different vibration, shock and various operational tests. Engineered for 4,000 hours of operation (over 200,000 miles) and outlasts a mechanical pump by two to three times. We are called 'The Original' for a reason. Join five decades of highly-satisfied customers who trust Olympic Controls Corp. with their fuel pump needs.

SPECIFICATIONS:

- 10,000 ENDURANCE HOURS of expected continuous duty life for brushless models.
- MODELS AVAILABLE: BRUSHLESS at 28 through 32 Volt. ★NEW MODEL★ BRUSHED at 12, 24 and 28 Volt.
- CORROSION RESISTANCE: Stainless steel motor housing, glass sealed electrical fitting, zinc pump body and plated hardware resist corrosion.
- DRY OPERATION: Permanently lubricated motor bearings inside a hermetically-sealed motor housing. Stainless steel pump shaft running in carbon bearings can tolerate short periods of dry operation.
- INSTALLATION: Arrives fully assembled and ready to install. In-tank units have a cover plate and brackets with 1/2" ID connections that mount from the top of the tank. The self-contained mini-tank version has 1/2" ID (24V) or 3/8" ID (12V) fittings and mounts anyplace where it can be filled by gravity.
- MAGNETIC COUPLING turns the motor pump shaft using the highest quality ceramic magnets and operating through a stainless steel bulkhead, for long life under the toughest conditions.
- QUALITY: We perform 3 operational quality control tests on each pump before it leaves our facility. UL listed and manufactured to military standard MIL-P-62011.
- RAPID PRIMING IN 5 SECONDS OR LESS due to unique double inlet which permits vapors to escape from pump cavity.
- TRASH TOLERANCE: Our centrifugal pump handles most particulates that pass through a 50 x 50 (12V) or 18 x18 (24V) monel screens.
- VIBRATION RESISTANCE: Designed and tested to meet military standard MIL-P-62011 vibration and shock requirements.

We are a proven legacy-run product specialist partner ready to fulfill your sourcing requirements. Reach out at **info@occorp.com** to discuss how our professional team can be of service to you.
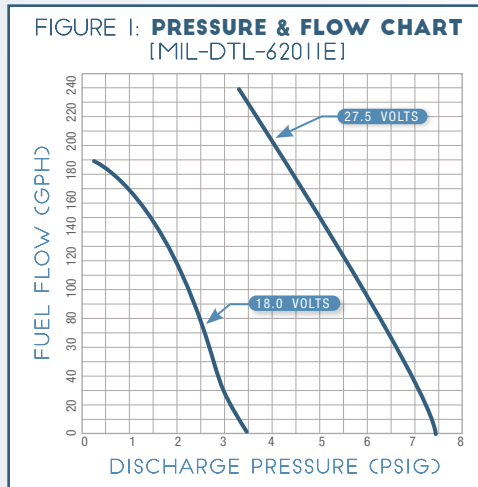
FUEL PUMP OPTIONS:

BRUSHLESS/BRUSHED FUEL PUMP

COMPARE TO STANDARD FUEL PUMP MOTOR:

- Designed to be a drop-in replacement for the standard brushed fuel pump.

- Same pumping performance power over the voltage range of 18 Volts DC to 32 Volts DC as in the MIL-DTL-62011E.

- Under software control, the brushless motor will limit its pump speed to approximately 4300 RPM even as system voltage increases up to 36 Volts DC. 4300 RPM is fast enough to provide performance in excess of the requirements, and is slow enough to prevent the decoupling of the magnetic linkage between the motor and pump which can occur during a sudden submerging of the pump into its fuel. Whereas, a brushed motor rpm continues to increase past 4300 RPM as the voltage increases above 28 Volts DC. This motor does stop operating above 35 Volts DC.

BRUSHLESS

SPECIFICATIONS:

- OPERATING VOLTAGE RANGE: 14 Volts DC to 35 Volts DC

- OPERATING TEMPERATURE RANGE: -54°C to 85°C (-65°F to 185°F)

- ABOVE 18 VOLTS DC, the pump will meet or exceed the pressure and flow requirements in *Figure 1*.

- ONCE STARTED AT OR ABOVE 14 VOLTS DC, the pump motor will continue to run as the input voltage is decreased down to 11.5 Volts DC before shutting off under software control.

- AS THE INPUT VOLTAGE INCREASES ABOVE 35 VOLTS DC, the pump motor will turn off based on high-voltage protection circuits.

- PUMP MOTOR WILL NOT BE DAMAGED, but also will not operate, WITH A REVERSED BATTERY CONNECTION (or negative input voltage).

- OVER 10,0000 ENDURANCE HOURS of continuous duty operating time.

- SEALED HOUSING: The motor housing has a hermetically-sealed, welded, stainless steel body for submersed operation and is magnetically coupled to the pump impeller.

FIGURE 1: **PRESSURE & FLOW CHART**
[MIL-DTL-62011E]

FUEL FLOW (GPH)

27.5 VOLTS

18.0 VOLTS

DISCHARGE PRESSURE (PSIG)

PUMP-AND-BRACKET MOUNTING

SPECIFICATIONS:

- Our brackets range from 12" to 40"
- Made of steel or ballistic steel depending upon the application
- Plate or paint bracket options to fit our customers' needs
- Compatible with our 12, 24 and 28 Volts and Brushless Fuel Pumps

PUMP-AND-BRACKET

PUMP-IN-A-CAN MINI TANK

SPECIFICATIONS:

- Allows for the fuel pump to be mounted outside of the fuel tank
- Effectively creates an in-line fuel pump

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PUMP-IN-A-CAN

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