

Currawong Standalone Fuel System – Selection Guide

Product Description

Currawong's Standalone Fuel System is designed to provide customers with a complete fuel system solution including fuel pump, pump controller and fuel damper.

Using Currawong's highly reliable, aerospace grade fuel pumps along with the newly developed Standalone Pump Controller Currawong is able to provide a standalone, self-priming and self-regulating fuel system for customers to integrate onto existing UAV engine applications.

Currawong offers a range of three piston-based fuel pumps for varying applications depending on fuel pressure and flow rate requirements.

Single Piston Pump

Currawong's original single piston pump provides a high performance, low leakage pump with a compact, low weight design for integration onto UAV platforms.

It is suitable for smaller UAV engines operating at pressures up to 4 bar.

Available flow rates:

- 35 g/min
- 48 g/min
- 64 g/min
- 120 g/min
- 260 g/min

Duplex Pump

Based on the same reliable design as the single piston pump, Currawong's Duplex pump is a twin piston pump designed to provide higher performance and increased flow rates for larger capacity UAV engines.

The Duplex pump operates at pressures up to 4 bar.

Available flow rate:

- 480 g/min

Triplex Pump

The Triplex fuel was developed to provide high pressure fuel delivery for heavy fuel and gasoline engines. Its unique three piston design combined with a tightly integrated control system provides very precise regulation of fuel delivery across a wide pressure range.

The Triplex pump can operate at pressures up to 10 bar.



Available flow rate:

- 110 g/min

Standalone Pump Controller

Currawong's Standalone Pump Controller combines a pressure sensor and small electronics package to regulate the fuel pressure provided by whichever Currawong fuel pump is selected as most suitable for the customers application.

The pump control is also integrated with a fuel pulse damper designed and tuned in-house by Currawong to act as compliance against the pressure fluctuations caused by the reciprocating piston pump in order to provide smooth fuel flow to the engine.

