

Currawong Fuel Pump – Selection Guide

Product Description

Currawong's range of industry leading, highly-reliable fuel pumps provide high-performance, self-priming piston pumps that are compact and low weight for integration onto small UAV platforms. Currawong offers a range of three piston-based fuel pumps for varying applications depending on fuel pressure and flow rate requirements. This range of piston pumps provide the backbone of Currawong's EFI capability and are used on all Currawong engines.

The pumps can also be integrated as a replacement EFI system for exiting UAV engines using an ECU or as a completely standalone, self-priming and self-regulating solution using Currawong's Standalone Fuel System which provides customers with a fuel pump, pump controller and fuel damper.

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 with a 3 bar nominal pressure.

Available flow rates:

- 35 g/min (CE370-04)
- 48 g/min (CE370-02)
- 64 g/min (CE370-06)
- 120 g/min (CE370-10)
- 280 g/min (CE370-15)

Duplex Pump (CE2376-02)

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 with a 3 bar nominal pressure.

Available flow rate:

- 360 g/min



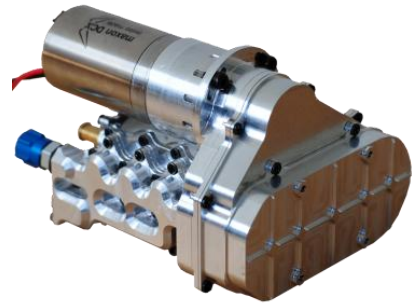
Triplex Pump (CE822-04)

The Triplex fuel pump 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:

- 360 g/min



Standalone Pump Controller (CE2368-01)

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 customer's 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.



Fuel Pulse Damper (CE2295-02)

Currawong's Fuel Pulse Damper is a spring-diaphragm damper used in fuel systems with independent fuel pressure control, such as an ECU.

Available in both 3 bar nominal and 9 bar nominal variants it can be paired with any of Currawong's fuel pumps when integrating to an EFI system with existing pressure control.



Summary Pump Selection Table

Pump	Max Flow Rate (g/min)	Fuel Pressure (Nominal) (bar)	Weight (g)	Size (mm)
Single Piston				
CE370-04	35	3	70	33 x 22 x 71
CE370-02	48	3	70	33 x 22 x 71
CE370-06	64	3	70	33 x 22 x 71
CE370-10	120	3	70	33 x 22 x 71
CE370-15	280	3	70	33 x 22 x 71
Duplex				
CE2376-02	360	3	155	22 x 65 x 82
Triplex				
CE822-04	360	10	250	54 x 61 x 81