

400HFS-L Hi-Flow Thruster

Data Sheet



CrustCrawler “High Flow 400HFS-L-L” Series AUV/UROV Thruster Technical Specifications

CrustCrawler’s “High Flow” AUV / UROV 400HFS-L thrusters were designed to be a reliable and customizable thruster for light duty UROV / ROV requirements. No other thruster on the market has the programmable flexibility to set specific operating parameters for different environmental conditions than the CrustCrawler “High Flow” series.

Motor Specifications

- Motor Type – High efficiency brushless
- Weight – 185g. (6.5oz)
- Gear Ratio – 4.28:1
- Shaft Diameter – 5.0mm (.1969”)
- Maximum Case Temperature – 100C (212F)
- Operating Voltage – 12 to 50 volts
- Operates in forward and reverse thrust (with the Phoenix EDGE HV60 ESC)

Connector Specifications

- Depth Rating – 300 ft.
- 3 wire

Thruster Housing / End Caps

- T- 6 Aluminum

Thruster Seal

- Motor - Flexible, polyurethane encapsulating compound
- Shaft Seal – Lip Seal followed by encapsulating grease gallery

Thruster Weight

- Weight in air - 1 pound (.453kg)
- Weight in Water – 9 ounces (255 grams)

Thruster Length

- 6.25” (15.87cm)

Finish

- Black / Red Type II Hard Anodized Finish

Propeller

- Size – 2.36” (60mm) - 4 blade
- Material – Solid Brass
- Propeller Adapter – Machined aluminum / Anodized Type II Black

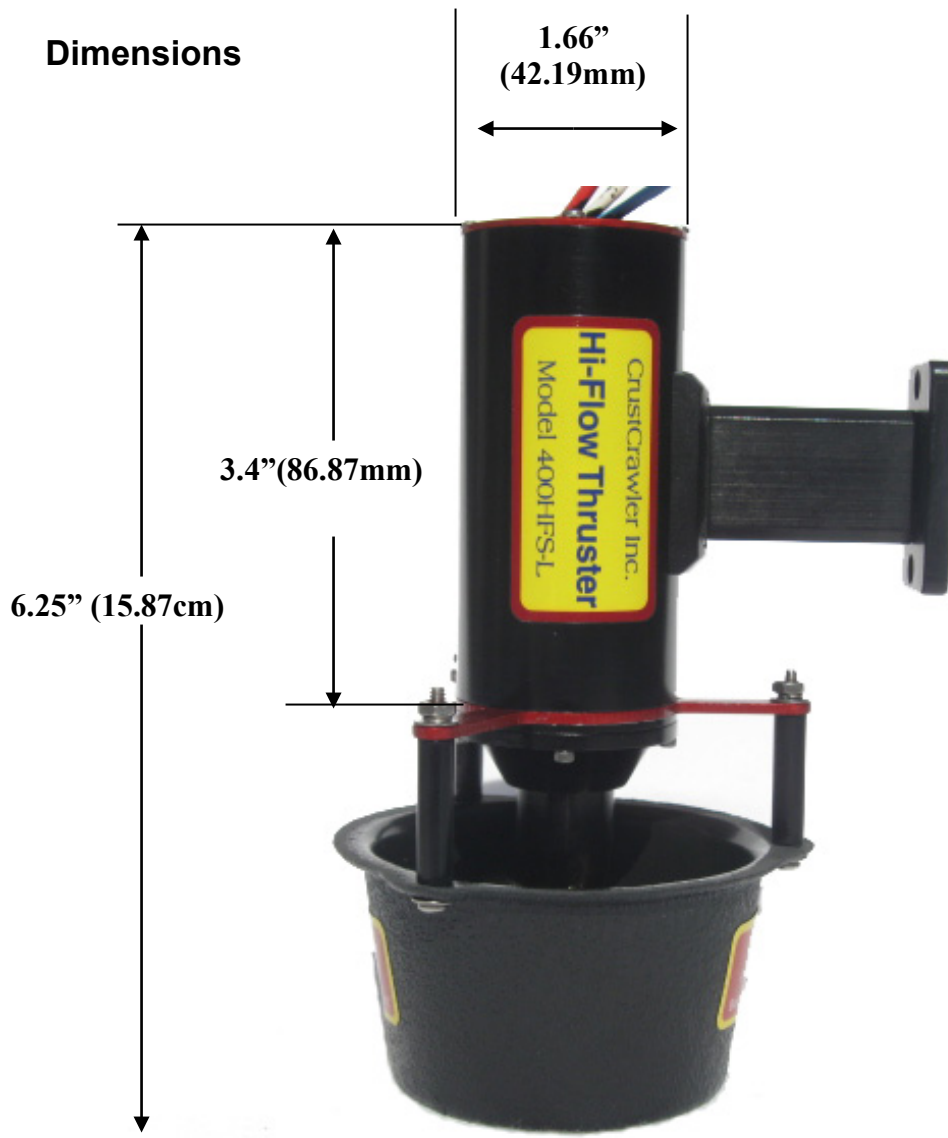
Kort Nozzle Adaptor

- Material – .090 Aluminum
- Offset - 120 degrees

Thrust Rating

- 1 – 6 pounds (.45 to 2.72kg) normal operating range (40W to 390W / 24V)
- 7 - 10 pounds (3.17 to 4.53kg) max burst thrust*
- **Note# 1** – Burst thrust is defined as the thruster range for short periods of time of less than 20 seconds

Please contact Crustcrawler for the latest thrust vs. current data



- **Kort Nozzle Inlet – 2.80" (71mm)**
- **Kort Nozzle Outlet – 2.44" (62mm)**

** Thruster specifications are subject to change without notice