



THE RED JACKET ALCOHOL GAS SUBMERSIBLE TURBINE PUMP FOR ALTERNATE FUELS



The Red Jacket® Alcohol Gas (AG) Submersible Turbine Pump

The cornerstone of your alternative fueling infrastructure, the Red Jacket AG series of submersible turbine pumps (STP) are built on the foundation of The Red Jacket model and is specially designed for resiliency in the harsh alternative fuel environment.



RENEWABLE BIOFUELS.



Designed for alternate fuels

All the advantages of the Red Jacket Submersible Turbine Pump, designed for alternative fuels – such as alcohol and ethanol. Red Jacket Submersible Turbine Pump AG is a fixed-speed alcohol gas fuel pump with a motor that delivers a higher flow rate than comparable submersible fuel motors, to optimize fuel flow and dispensing. The STP also features Red Jacket's advanced packer manifold design, making it the industry's easiest and safest STP to install and service. This STP solution is available in ¾HP to 2HP motor configurations and fixed or Quick Set® adjustable lengths.

Features and Benefits

Alternative Fuel ready with AG compatible hardware:

- **Specialized Design** – compatible with Ethanol concentrations up to 90%, Methanol concentrations up to 100% and MTBE, ETBE or TAME concentrations up to 20%.
- **Certified** – UL79A and UL79B for use with renewable biofuels.

Superior motor design provides higher flow rates, lower power consumption, and increased safety and reliability:

- **Up to 5% Increased Flow** – Improved stator and receptacle housing design provides larger fuel paths.
- **8% Less Power Consumption** – More efficient motor design results in 8% reduction in wattage.
- **Better Quality** – Red Jacket's motor manufacturing yields improved quality, which means more station uptime than other STPs on the market.
- **Universal Compatibility** – Fewer parts to stock.



competitive models. Enhanced connectors separation meets latest flameproof standards.

Advanced packer manifold design expedites installation, simplifies service or testing, and sets the standard for Electrical and Environmental Safety:

- **Built-in Isolated Contractor's Box** – Electrical connection housing is built into the manifold and is completely isolated from the fuel path.
- **Easy to Install and Service** – No adjustment required to fit yok, assembly is quick.
- **Increased Electrical Safety** – Automatic electrical yoke disconnects upon removal of extractable bolts.
- **Environmentally Friendly** – Automatic breaking of extractible seal upon bolt removal ensures automatic fuel drain back into tank, protecting the environment from contamination and site owners from related liability.
- **Innovative Check Valve Design** – “Open” setting makes for easier line tests and servicing.

Specifications

Fuel Compatibility

- 100% Gasoline
- 100% Diesel
- 0-100% Biodiesel blends
- Jet Fuel
- AVGAS
- Kerosene and Fuel Oil
- Methanol concentrations up to 100%
- Ethanol concentrations up to 90%
- MTBE, ETBE, or TAME concentrations up to 20%



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|-------------------------------------|--|
| | <ul style="list-style-type: none"> • LP 2 HP, 60 HZ, 1-phase, low pressure • 2 HP, 60 HZ, 1-phase |
| Hardware Construction | <p>Column Pipe and Riser:</p> <ul style="list-style-type: none"> • Standard <p>Packer Components:</p> <ul style="list-style-type: none"> • Stainless Steel |
| Protective Coatings | <ul style="list-style-type: none"> • N/A |
| Operation Environment | <ul style="list-style-type: none"> • Class 1, Group D atmospheres • Low Corrosion Environment • Dry Sump Space (No Water Ingress) |
| Installation Depth Range | <p>Fixed Length:</p> <ul style="list-style-type: none"> • 3.5' to 19' <p>Quick Set (Adjustable Length):</p> <ul style="list-style-type: none"> • RJ 1 = 74.5" - 105"* • RJ 2 = 104.4" - 165" • RJ 3 = 164" - 225" <p>*Assumes 1.5 HP</p> |
| Packer Manifold Access Ports | <p>Siphon Ports:</p> <ul style="list-style-type: none"> • 2 available, 1/4" NPT • Vacuums generated up to 25 in Hg. <p>Line Pressure Port:</p> <ul style="list-style-type: none"> • 1 Available, 1/4" NPT <p>Vent Port:</p> |



Compatibility

001)

- High pressure check valve for high pressure applications (410152-002)

Agency

UL Listings:

- 100% Diesel
- 100% Gasoline
- 100% Biodiesel (B100)
- Kerosene and Fuel Oil
- 85% Ethanol (E85)
- 0-20% Biodiesel blends
- Gasoline and up to: 15% Methanol, 20% MTBE, 20% ETBE, 20% TAME

Other Agency Listings:

- cUL

The Red Jacket Portfolio offers a variety of solutions tailored for the special requirements of resiliency in today's renewable fuels, as well as fuels focused on improved emissions and fuel economy.

Documentation

- ↓ [The Red Jacket AG Specification Sheet \(576047-268\) \(PDF\)](#)
- ↓ [Red Jacket STP Fuel Compatibility \(576047-305\) \(PDF\)](#)
- ↓ [Red Jacket Product Guide \(576047-310\) \(PDF\)](#)
- ↓ [The Benefits of Owning a Red Jacket \(576047-193\) \(PDF\)](#)
- ↓ [The Benefits of Servicing a Red Jacket \(576047-194\) \(PDF\)](#)
- ↓ [The Red Jacket STP Installation Manual \(577013-830\) \(PDF\)](#)



RELATED PRODUCTS



The Red Jacket® STP Accessories

Accessories for The Red Jacket STP Platform

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harshest corrosive environments created by ULSD and ethanol blends.

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The Red Jacket® Submersible Turbine Pump

The Red Jacket® submersible turbine pump set the standard for reliability in fueling applications

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constructed of stainless steel tubing and can be configured for several different tank applications

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