

# The Red Jacket Submersible Turbine Pump

Advanced environmental protection,  
serviceability, safety and flow



## Environmentally friendly features

The Red Jacket Submersible Turbine Pump has been specifically designed to eliminate spills that can occur during service, and to integrate with Veeder-Root industry leading leak detection systems.

### Service spill elimination

#### *Innovative Check Valve design*

The Check Valve on the Red Jacket Submersible Turbine Pump has been designed so that it can be raised, providing a larger path to depressurize the line and return fuel to the tank. This feature eliminates the potential for fuel spills.

#### *Spill-free extractable*

When the two nuts holding the extractable in place are backed off, the o-ring seals are automatically broken, releasing pressure in the pump and the non-isolated line, draining fuel back into the tank. This simple feature helps eliminate potential human error that could cause service spills, protecting the environment from fuel contamination, and site owners from related liability.

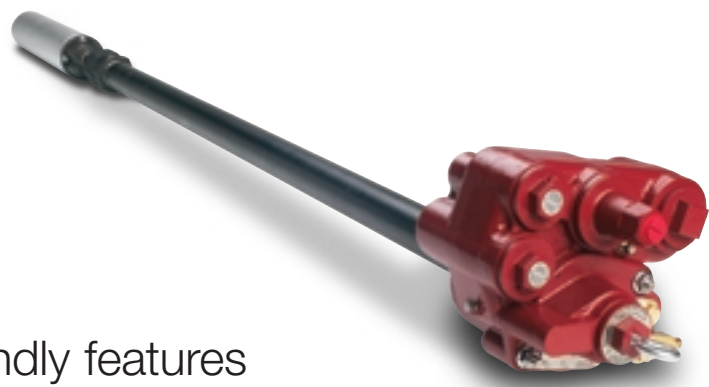
### Vacuum monitoring applications

#### *Red Jacket Vacuum Sensor Siphon System*

The Red Jacket Vacuum Sensor Siphon System is a monitoring-grade siphon system. It is designed specifically for use in vacuum monitoring applications, and to integrate with Veeder-Root vacuum sensors. The pump offers two siphon system ports. The Red Jacket Vacuum Sensor Siphon System incorporates a redesigned one-piece rubber Check Valve with an in-line filter screen that reduces the clogs and failures that can cause false alarms and downtime in vacuum monitoring applications.

### Line leak detection

Veeder-Root/Red Jacket industry leading pressurized line leak detection (PLLD) provides environmental compliance without the fuel flow restrictions of mechanical (MLLD) or electronic (ELLD) systems.



Check Valve pressure release



Red Jacket Vacuum Sensor Siphon System

## Innovative technology delivers the easiest and safest pump to install and service

The Red Jacket Submersible Turbine Pump incorporates a range of innovative new features that keep the safety of service technicians and service related costs in mind. If you're concerned about rising labor costs and the safety of your workforce, you need to take a look at The Red Jacket Submersible Turbine Pump.

### Yoke assembly: quick, simple and safe electrical connections

Current safety practice when servicing existing submersible pumps requires turning off the circuit breaker, backing off the bolts by up to one inch, and then manually pulling the electrical yoke connection apart. When service is complete, the technician has to force the connection back in place.

With The Red Jacket Submersible Turbine Pump you turn off the circuit breaker, then simply back off the two nuts holding the extractable in place and the yoke electrical connection is broken. After service is complete, the electrical circuit reconnects when the two nuts are retightened. Safe, simple and easy.

### Extractable: easy to install and service

The Red Jacket Submersible Turbine Pump's design incorporates industrial die springs that break loose the o-ring seals when the nuts holding the extractable in place are removed. No physical effort or special equipment is required to break the seal, unlike competitive systems that can require considerable force.

In addition, all connected parts have been moved to the manifold; so there is no need to remove parts, leak detectors or siphons when service or upgrades require removing the extractable.

### Manifold allows for vertical or horizontal discharge

The Red Jacket Submersible Turbine Pump has been designed for vertical product discharge, but with adequate swinging radius to allow for the addition of an elbow to accommodate a side discharge. In fact, the discharge is now located higher on the manifold so that a side discharge is on the same plane as the rest of the pump.

### Built-in contractor's box

The electrical connection housing (Contractor's Box) is built into the manifold of The Red Jacket Submersible Turbine Pump, and is completely isolated from the fuel path. Unlike existing systems, there is no adjustment required to fit the yoke, making this pump the easiest to install.



Pre-installed capacitor and simple electrical connections

## Save time, lower service costs

Service technicians will appreciate how the pump saves time and effort. They'll also appreciate how the electrical connections on the yoke assembly make installation and service a much safer process. Site owners will appreciate the savings in service and upgrade costs.

## The best performance

The Red Jacket Submersible Turbine Pump delivers the flow performance and reliability you've come to expect from the industry leader.

### Flow fuels profits

The Red Jacket Submersible Turbine Pump has the lowest pressure drop across the packer manifold, optimizing flow with any sized motor that meets the site requirements. This results in more flow at discharge so site owners can maximize flow and profits.

Protect the environment.

Protect your workforce and budget.

# Specifications

## Designed for Hazardous Location:

Class 1, Group D atmospheres

## Quick-Set Adjustment Range:

RJ 1 = 74.5" - 105"\*

RJ 2 = 104.4" - 165"

RJ 3 = 164" - 225"

\*Assumes 1.5 HP

## Agency Listing:

UL

cUL

ATEX Certified

## 4" Horsepowers Available:

3/4 HP, 60 HZ, 1-phase

3/4 HP, 50 HZ, 1-phase or 3-phase

1 1/2 HP, 60 HZ, 1-phase

1 1/2 HP, 50 HZ, 1-phase or 3-phase

X3, 60 HZ, 1-phase

X4, 50 HZ, 1-phase or 3-phase

2 HP, 60 HZ, 1-phase

## Siphon Ports:

2 available, 1/4" NPT. Vacuums generated up to 25 in Hg.

## Fuel Compatibility:

Diesel

100% Gasoline

80% Gasoline with 20% TAME, ETBE, or MTBE

0-100% Ethanol

0-100% Methanol

## Line Pressure Port:

1 Available. 1/4" NPT

## Vent Port:

1 Available. 1/4" NPT

## Just part of the solutions offered by the Flow Resource at Red Jacket

We offer a range of solutions, including leading pump technologies for both new installations and upgrades, manifolded pumping systems for increased uptime and product availability, and the industry's leading tank monitoring and leak detection systems.

All with the desired purpose of delivering greater profitability and reliability to our customers.

We are a valuable source of expertise and information to both site owners and our business partners. Consider us your Flow Resource.



Call the Flow Resource today for more information on systems design and complete product specifications.

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