

The Red Jacket 4 HP Submersible Turbine Pump

High Flow Performance. High Reliability.

The Red Jacket 4 HP Submersible Turbine Pump (STP) rounds out the 4" Veeder-Root STP portfolio, offering high throughput, high reliability, and reduced power consumption. The best in-class fixed speed technology services up to 7 simultaneous fuel transactions at the required 10 Gallons Per Minute (GPM) per nozzle. With an automatic electrical disconnection mechanism, disruptions are minimized to site operations making servicing safe, quick, and efficient to ensure site uptime.



► FEATURES

High Performance

- Equivalent to 4 HP variable speed solutions, performance up to 7 simultaneous activated nozzles at 10 GPM
- 4" design meets the required tank riser size
- 4% less power consumption than variable speed solutions
- Quick Set® adjustable length options

High Reliability

- Designed and tested to the same quality standards as existing Red Jacket STPs that have less than 1% field failure rates
- Automatic electrical disconnect ensures quick and safe servicing
- Spring mechanisms reduce lifting force
- Automatic fuel drain allows fuel in the manifold to safely drain back to the tank
- Upstream siphon filter screen helps minimize the risk of clogging

Fuel Compatibility

As biofuels, vehicle technology, and ethanol infrastructures expand, Red Jacket fueling systems are there to meet your needs. The Red Jacket 4 HP STP is designed alongside our current series of packer manifolds. Whether you are pumping Unleaded (E10) or higher concentrations of Biodiesel and Ethanol, the 4 HP has it covered with The Red Jacket STP, The Red Jacket Alcohol Gas (AG) STP*, and Red Armor® STP*.



HIGH THROUGHPUT WITH REDUCED POWER CONSUMPTION

* The Red Jacket AG 4 HP STP and The Red Armor 4 HP STP will be available in May 2024

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LOWER COST OF OWNERSHIP

HIGH THROUGHPUT WITH REDUCED POWER CONSUMPTION

COST SAVINGS CATEGORY

SAVINGS LEVEL

Maximize site uptime with best-in-class reliability technology	\$\$\$\$
Minimize power consumption saving up to 4% on energy consumption (loss)	\$\$\$
Mitigate check valve failures due to siphon jet clogging, avoid unnecessary deliveries	\$\$\$
Eliminate retest after servicing , check valve, leak detector, and siphon cartridge remain in manifold when the extractable is removed	\$\$
Automatic electrical disconnect ensures quick and safe servicing	\$\$

SPECIFICATIONS

Flow Rate Performance

- 7 simultaneous nozzles at 10 GPM flow rate
- 8 simultaneous nozzles at 9 – 10 GPM flow rate

Power Requirements

- 4 HP, 230VAC 60 Hz, 3-phase

Operation Environment

- Class 1, Group D atmospheres
- Wet or dry sump space (water ingress)

Installation Depth Range

- Quick Set® (Adjustable Length):
 - RJ 1 = 81.5" – 111.5'
 - RJ 2 = 111.5" – 171.5'
 - RJ 3 = 171.5" – 231.5'

Packer Manifold Access Ports

- Siphon Ports:
 - 2 available, 1/4" NPT
 - Vacuums generated up to 25 in Hg
- Line Pressure Port: 1 Available, 1/4" NPT
- Vent Port: 1 Available, 1/4" NPT

Check Valve Compatibility

- Check Valve Housing Kit (P/N: 0410152-001)
- Red Armor® Check Valve Housing Kit (P/N: 0410152-005)

UL Listings

- 100% Diesel or Gasoline
- Gasoline and up to 10% Ethanol, 15% Methanol, 20% MTBE, 20% ETBE, 20% TAME

Other Agency Listings

- cUL

Red Jacket 4 HP STP Flow Rate Performance @ 230VAC 60 Hz; SG = 0.73
Model P400U4-3

