
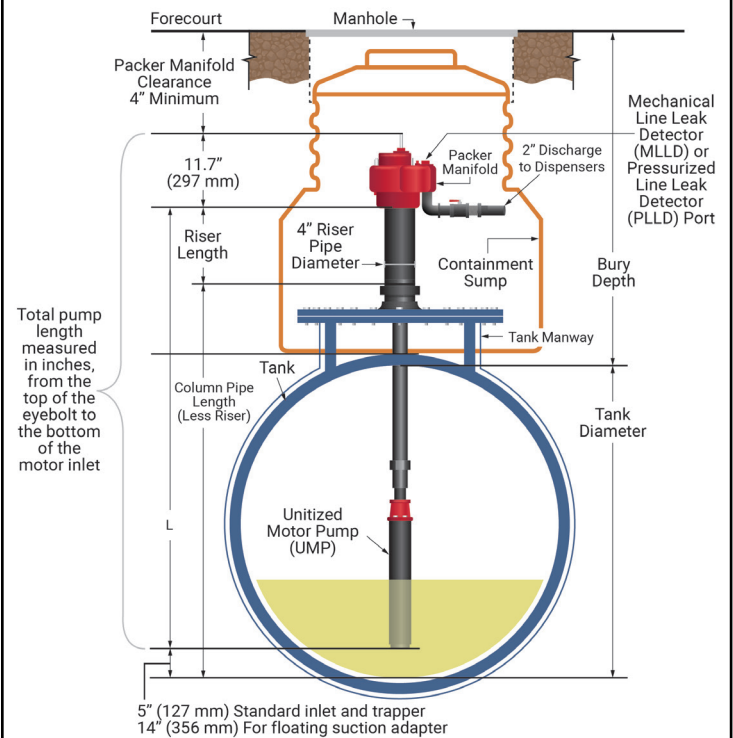
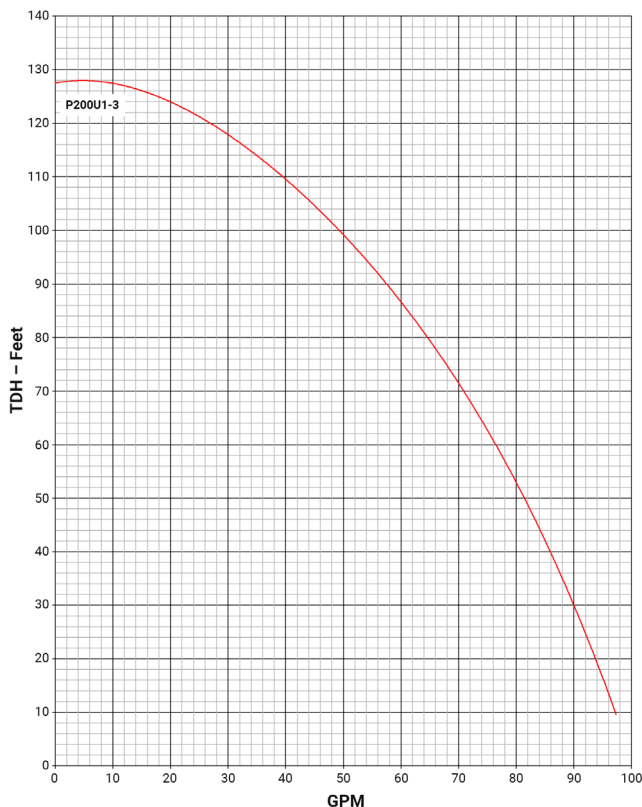


STP Description	<p>The Red Jacket Submersible Turbine Pump (STP) is responsible for driving fuel from the storage tank, through the piping infrastructure and into the vehicle through the use of pressure energy. It optimizes fuel flow and dispensing, and its advanced packer manifold design makes it the industry's easiest and safest STP to install and service. Available in 3/4 HP to 2 HP configurations and fixed or variable Quick Set® lengths. As a Veeder-Root flagship product line, Red Jacket is backed by the largest network of distributors and authorized service contractors worldwide.</p>																								
4" Red Jacket STP	<table border="1"> <thead> <tr> <th>Part #</th> <th>Description</th> <th>Model #</th> </tr> </thead> <tbody> <tr> <td>0410142-001</td> <td>4" TRJ STP - Quick Set (Adjustable) Final Assemblies, 78.5" - 108.5" Length</td> <td>P200U1-3 RJ1</td> </tr> <tr> <td>0410142-002</td> <td>4" TRJ STP - Quick Set (Adjustable) Final Assemblies, 108.5" - 168.5" Length</td> <td>P200U1-3 RJ2</td> </tr> <tr> <td>0410142-003</td> <td>4" TRJ STP - Quick Set (Adjustable) Final Assemblies, 168.5" - 228.5" Length</td> <td>P200U1-3 RJ3</td> </tr> <tr> <td>0410142-004</td> <td>4" TRJ STP - Quick Set (Adjustable) Final Assemblies, 80.9" - 110.9" Length</td> <td>P200U1-3 RJ1 FSA</td> </tr> <tr> <td>0410142-005</td> <td>4" TRJ STP - Quick Set (Adjustable) Final Assemblies, 110.9" - 170.9" Length</td> <td>P200U1-3 RJ2 FSA</td> </tr> <tr> <td>0410142-006</td> <td>4" TRJ STP - Quick Set (Adjustable) Final Assemblies, 170.9" - 230.5" Length</td> <td>P200U1-3 RJ3 FSA</td> </tr> </tbody> </table>	Part #	Description	Model #	0410142-001	4" TRJ STP - Quick Set (Adjustable) Final Assemblies, 78.5" - 108.5" Length	P200U1-3 RJ1	0410142-002	4" TRJ STP - Quick Set (Adjustable) Final Assemblies, 108.5" - 168.5" Length	P200U1-3 RJ2	0410142-003	4" TRJ STP - Quick Set (Adjustable) Final Assemblies, 168.5" - 228.5" Length	P200U1-3 RJ3	0410142-004	4" TRJ STP - Quick Set (Adjustable) Final Assemblies, 80.9" - 110.9" Length	P200U1-3 RJ1 FSA	0410142-005	4" TRJ STP - Quick Set (Adjustable) Final Assemblies, 110.9" - 170.9" Length	P200U1-3 RJ2 FSA	0410142-006	4" TRJ STP - Quick Set (Adjustable) Final Assemblies, 170.9" - 230.5" Length	P200U1-3 RJ3 FSA	<table border="1"> <thead> <tr> <th>Notes</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> • 2 HP, 1.5 KW, 208/230 Voltage, single-phase. • Length is in inches, measured from top of the eyebolt to the bottom of the motor inlet. • FSA stands for Floating Suction Adapter. </td> </tr> </tbody> </table>	Notes	<ul style="list-style-type: none"> • 2 HP, 1.5 KW, 208/230 Voltage, single-phase. • Length is in inches, measured from top of the eyebolt to the bottom of the motor inlet. • FSA stands for Floating Suction Adapter.
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Fuel Compatibility	<p>The Red Jacket Submersible Turbine Pump Model is UL Listed for:</p> <ul style="list-style-type: none"> • 100% Gasoline • 100% Diesel • 80% Gasoline with 20% TAME, ETBE or MTBE Gasoline • 85% Gasoline with 15% Methanol • 90% Gasoline with 10% Ethanol 		<p>STP Application Description</p> <p>Pump shall be of submersible centrifugal type which installs through a standard 4" threaded tank opening. Motor size shall be from 3/4 through 2 HP, depending upon required flow rates and head loss of a given piping system.</p>																						
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Mechanical Features (Continued)	Electrical Disconnect	Check Valve with "Lock-n-Lift" Feature
	The electrical disconnect shall be an integral part of the manifold assembly. The electrical disconnect shall automatically disconnect and sever electrical connection to the pump motor, without a swing joint, when the extractable packer assembly is removed. Re-insertion of the extractable packer and tightening of the flange nuts shall remake the electrical connection.	The check valve shall incorporate a "Lock-n-Lift" feature that mechanically locks the check valve and lifts to provide a larger path to depressurize the line and manifold head assembly, returning fuel to the tank preventing service spills. The check valve shall provide pressure relief of the product line and be optimized for compatibility with Veeder-Root PLLD systems.
	Vacuum Sensor Siphon System	Quick Set®
	The vacuum sensor siphon system shall be capable of drawing 25" of mercury vacuum through a venturi. The vacuum sensor siphon shall incorporate a check valve to maintain the siphon system vacuum after the pump has been turned off. Check valves shall be incorporated on the siphon inlet and fuel source inlet to the venturi. The inlet shall incorporate a screen that reduces clogs and failures that can cause false alarms on vacuum monitor systems. The vacuum sensor siphon system shall incorporate a swivel top for easy connection to siphon tubing. The vacuum sensor siphon system shall be designed to integrate with Veeder-Root Vacuum Sensors. The manifold head assembly shall support dual vacuum sensor siphon systems for vacuum monitoring or siphon manifold applications. Unused vacuum siphon ports shall be sealed with a plug designed specifically for that purpose.	The Quick Set feature shall be capable of varying the overall pump length. The Quick Set shall incorporate a collet gripping mechanism and setscrew as a locking mechanism allowing future resizing.
Electrical Features	Electric Motors – 4" Models	Connections
	The motor shall be 208/230 volt, 60Hz, single-phase, 3450 RPM, permanent split capacitor type continuous duty, rated explosion proof in Class 1, Group D, petroleum products. The motor windings shall be hermetically sealed against leakage of product or moisture, and shall have a thermal overload device with automatic reset built into the motor windings for motor cut-off when motor temperature reaches a level which may cause damage to the motor.	The motor shall have a quick-disconnect type male/female connector to be readily separable for servicing without cutting or splicing of conducting wires. Wiring connections to the motor shall be disconnected by the quick-disconnect. Reconnecting motor to column pipe shall use an alignment dowel pin for positive realignment of electrical male/female connector.
Construction	Accessibility	Assembly Order
	All components shall be designed and assembled to facilitate disassembly and servicing from above without disrupting the discharge piping, leak detection equipment and vacuum sensor siphon systems.	The pump shall be assembled with the pump inlet and impellers at the bottom for maximum liquid draw. The motor is to be mounted above the pump inlet, so that the motor is both cooled and lubricated by the liquid flow through and past the motor.
Environmental	<ul style="list-style-type: none"> • The pump assembly shall be rated for operation between -40°F (-40°C) and 105°F (40.5°C) in non-gelling petroleum products. • The pump assembly shall be listed under UL 79 for operation between -20°F (-4°C) and 125°F (51°C) ambient environment. • The product temperature must not exceed 105°F (40.5°C). • Petroleum shall not exceed the specific gravity as stated in the installation manuals (ranging from 0.86 - 0.95) based upon the specific pump model. • Maximum viscosity allowable – 70SSU @ 60°F (15°C). 	
Approvals	UL 79, cUL	
Product Installation Guide	https://www.veeder.com/us/technical-document-library	

Bill of Materials	4" Red Jacket STP Models		
	Component	Material	Surface Finish
	Packer/Manifold Head	Gray Cast Iron	Low VOC Paint
	Elastomers – "O" Rings	Fluorocarbon	None
	Check Valve Seat	Stainless Steel	None
	Check Valve Lock Down Screw	Brass	None
	Column Pipes	Steel Tubing	Powder Primer
	Conduit Pipe	1/2" Steel Pipe	Mill Finish
	Quick Set Connector	Gray Cast Iron	Phosphate and Oil
	Discharge Head	Gray Cast Iron	Corrosion Inhibitor
	Retaining Nuts	Steel	Zinc Plating
	Die Springs	Spring Steel	Enamel Paint
	Purge Screw	Brass	None
	Siphon Cartridge	Brass	None
	Pump/Motor		
Outer Shell	Stainless Steel	None	
Stator Shell	Stainless Steel	None	
Rotor Shaft	Stainless Steel	None	
Impellers & Diffusers	(Acetel) Celcon® Plastic	None	
Motor Bearings	Carbon	None	

The Red Jacket STP Performance
The Red Jacket STP Dimensions
Performance @ 230V; SG=0.78


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Example Illustrations

Illustrations used in this guide may contain components that are customer supplied and not included with the Red Jacket Submersible Turbine Pump. Please check with your Veeder-Root Distributor for recommended installation accessories.