

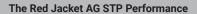
STP Description	responsible for infrastructure a optimizes fuel design makes service. Availal lengths, and de Red Jacket Sul fuel pump with submersible fu additional 30% STP. It has all t constructed wi a Veeder-Root	t Alcohol Gas (AG) Submersible Turbine Puric driving fuel from the storage tank, through the and into the vehicle through the use of pressiflow and dispensing, and its advanced packed the industry's easiest and safest STP to inside in 3/4 HP to 2 HP configurations in variable signed for alternative fuels – such as alcohomersible Turbine Pump AG is a fixed-speed a motor that delivers a higher flow rate than the limited process in stainless steel hardware from The advantages of The Red Jacket STP design that stainless steel on all parts exposed to the flagship product line, Red Jacket is backed by tributors and authorized service contractors.			
	Part #	Description	Model #	Notes	
	0410140-058	4" TRJ AG STP - Quick Set (Adjustable) Final Assemblies, 74" - 104.5" Length	AGP75S3-3 RJ1	• 3/4 HP, 0.56 KW, 220/240 Voltage, single-phase	
	0410140-059	4" TRJ AG STP - Quick Set (Adjustable) Final Assemblies, 104" - 164.5" Length	AGP75S3-3 RJ2	Length is in inches, measured from top of the eyebolt to the bottom of the motor inlet. FSA stands for Floating Suction Adapter.	
4" Red Jacket AG STP	0410140-060	4" TRJ AG STP - Quick Set (Adjustable) Final Assemblies, 164" - 224.5" Length	AGP75S3-3 RJ3		
	0410140-061	4" TRJ AG STP - Quick Set (Adjustable) Final Assemblies, 76.4" - 106.9" Length	AGP75S3-3 RJ1 FSA		
	0410140-062	4" TRJ AG STP - Quick Set (Adjustable) Final Assemblies, 106.4" - 166.9" Length	AGP75S3-3 RJ2 FSA		
	0410140-063	4" TRJ AG STP - Quick Set (Adjustable) Final Assemblies, 166.4" - 226.9" Length	AGP75S3-3 RJ3 FSA		
	The Red Ja	cket Submersible Turbine Pump Model is Ul	Listed for:	STP Application Description	
Fuel Compatibility	 100% Gasoline 100% Diesel UL 79A: 85% Ethanol (E85) UL 79B: 0-20% Biodiesel (B20), 100% Biodiesel (B100) UL 79B: Kerosene and Fuel Oil Gasoline and up to: 15% Methanol, 20% MTBE, 20% ETBE, 20% TAME 			STP 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.	
	Pump			Impellers and Diffusers	
	Pump shall be multi-stage, dependent upon required flow rate, self-lubricating and easily removed from storage tank without disconnecting discharge piping, mechanical or electronic leak detectors or siphon systems. The pump and motor assembly shall be readily separable from the pump column pipe to allow for simple field replacement of the pump and motor.			Impellers shall be splined to the pump shaft to provide positive, non-slip rotation. Diffusers shall be tightly secured to prevent rotation.	
	Pump Intake Inlet			Manifold Head Assembly	
Mechanical Features	Pump intake inlet shall be horizontal to prevent drawing sediment from the tank bottom into the pump inlet. The intake inlet shall be compatible with the particulate "Trapper" to prevent particulates from being ingested into the motor.			Manifold head assembly shall consist of a manifold and extractable packer assembly and shall be completely sealed against product leakage into the ground and exterior water intrusion into the storage tank. The discharge outlet shall be a 2" NPT opening. The manifold shall have a built-in air purge screw, line check valve, pressure relief valve, and shall support dual vacuum sensor siphon systems when required. The extractable packer shall incorporate industrial die springs to break loose the o-ring seals, when the flange nuts holding the extractable packer in place are removed. No physical lifting effort or special equipment shall be required to break the extractable packer seals. The contractor's box shall be built into the manifold head assembly and be completely isolated from the fuel path. The extractable packer assembly shall incorporate a lifting eye for safe extraction of the pump motor.	

The Red Jacket® 3/4 HP Alcohol Gas Submersible Turbine Pump - 50Hz

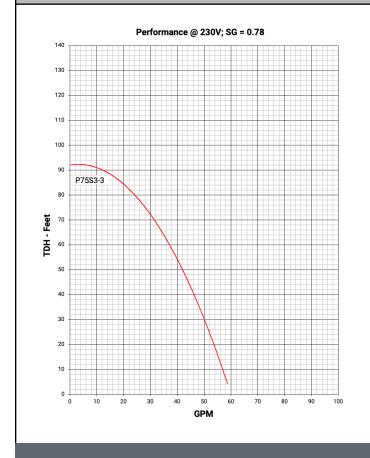
	Electrical Disconnect	Check Valve with "Lock-n-Lift" Feature			
Mechanical Features (Continued)	The electrical disconnect shall be an integral part of the manifold assembly. The electrical disconnect shall automatically disconnect and sever electrical connection to the pump motor, without a swing joint, 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 220/240 volt, 50 Hz, single-phase, 2850 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.			
	Accessibility	Assembly Order			
Construction	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	 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, UL 79A, UL 79B, cUL				
Product Installation Guide	https://www.veeder.com/us/technical-document-library				

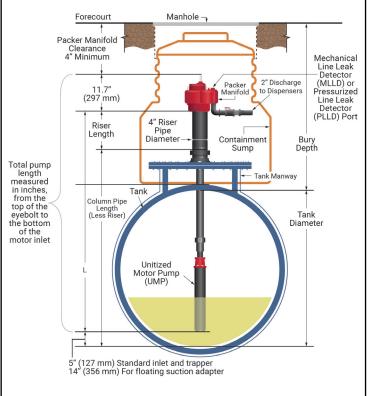


	4" Red Jacket AG STP Models					
	Component	Material	Surface Finish			
Bill of Materials	Packer/Manifold Head	Gray Cast Iron	Low Volatile Organic Compound Paint			
	Elastomers – "O" Rings	High Grade Fluorocarbon	None			
	Check Valve Seat	Stainless Steel	None			
	Check Valve Lock Down Screw	Stainless Steel	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	Stainless Steel	Passivation			
	Siphon Cartridge	Stainless Steel	Passivation			
	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 AG STP Dimensions





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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.