

Red Armor® STP Built to Combat Corrosion

The Ultimate Survivor in Your Fueling Infrastructure

Effects of Advanced Corrosion on a Submersible Turbine Pump (STP)

As corrosion advances, its impact on STP equipment can be detrimental to your fueling infrastructure running optimally, including:

- Potential leaks and cracks
- Premature pump failure
- Unserviceable parts and components
- Reduced life expectancy



Aggressive corrosion of this STP equipment cut short its useful life span

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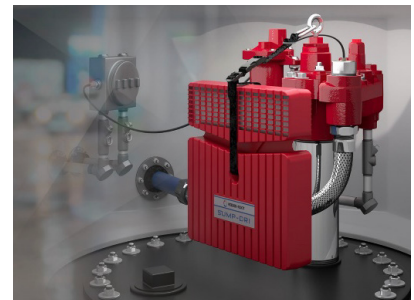
We have been seeing corrosion increasingly over the past 6-7 years and needed to find a way to fight its effects on our equipment. We chose Red Armor to protect our equipment and ensure continuous uptime.

– Fuel Division Manager

”

▶ THE RIGHT CONFIGURATION TO PREVENT CORROSION

Veeder-Root has developed the Red Armor STP, the Sump-Dri Desiccant System, Stainless Steel Risers, and the Trapper Intake Screen, to help users create the right configuration to prevent corrosion in their fueling environment.



“

Sump-Dri ensures all of the equipment continues to operate at optimal levels. It eliminates potential down-time and loss of sales that any pump made inoperable by corrosion would cause.

– Senior Petroleum Systems Technical Advisor

”

Go on the Offensive to Combat Corrosion



**MAXIMIZE
UPTIME**



**PROTECT
INVESTMENTS**



**OVERCOME ENVIRONMENTAL
CONSTRAINTS**



A John M. Ellsworth Company

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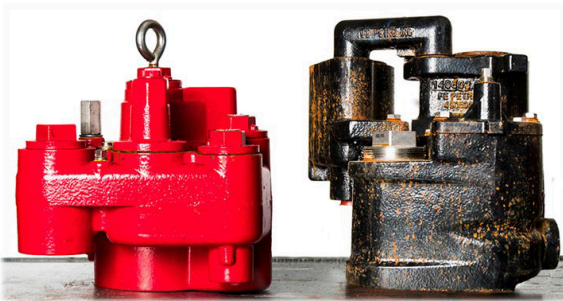
► BUILT TO LAST

Red Armor is a robust fixed-speed STP that was built for higher biofuel compatibilities and dealing with corrosive environments, promoting optimal fuel flow and dispensing. The Red Armor STPs 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 ¼ HP to 2 HP motor configurations and fixed or Quick Set® adjustable lengths.

The Red Armor family of STPs and Pump Controllers ensure that your customers can pump fuel quickly, efficiently and safely – whether it's motor fuel, diesel, aviation gasoline, ethanol/methanol or kerosene – in even the harshest aboveground or underground fueling environments.



► SEE THE RED ARMOR DIFFERENCE



The Red Armor packer manifold versus a competitive product in the ASTM G85 Annex A3 22 Day Salt Spray test.

Red Armor's specialty outer coating and exterior and interior stainless steel components help protect this STP in the harshest corrosive environments. Other STPs without this added protection on all exposed surfaces may see corrosion intrusion.

► CORROSION INCREASINGLY IMPACTING FUELING INFRASTRUCTURE EQUIPMENT

With the increased usage of biofuel blends, sites are seeing increased signs of corrosion take hold within the sump and tank spaces.

“ When corrosion has started to affect the STP, it becomes harder to work on the actual unit. It is a much longer and arduous process to take apart, service and put back together. ”
 – Technician

FUEL TYPE	STP RECOMMENDATIONS BY FUEL TYPE*		
	Red Jacket®	Red Jacket® AG	Red Armor®
100% Gasoline	Protection Level: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Protection Level: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Protection Level: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Unleaded Gasoline Up to 20% (E20)	Protection Level: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Protection Level: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Protection Level: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Ethanol Concentrations Up to 90% (E90)	Protection Level: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Protection Level: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Protection Level: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
100% Diesel	Protection Level: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Protection Level: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Protection Level: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Biodiesel Concentrations Up to 5% (B5)	Protection Level: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Protection Level: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Protection Level: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Biodiesel Concentrations Up to 20% (B20)	Protection Level: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Protection Level: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Protection Level: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Biodiesel Concentrations up to 100% (B100)	Protection Level: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Protection Level: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Protection Level: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

* Stainless Steel Riser, Trapper and Sump-Dri recommended accessories for all STPs



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