

Fuel Compatible – Now and Future Ready

As biofuels, vehicle technology, and ethanol infrastructures expand, Red Jacket fueling systems are there to meet your needs.

The Red Jacket® (TRJ) Submersible Turbine Pump (STP) portfolio delivers fast, reliable fuel flow, and a low cost of ownership.

With a range of motor options, The Red Jacket provides flow rates to meet your individual site needs, whether for a single fueling point or multiple dispensers. It features Red Jacket's advanced packer manifold design, making it a simple and safe STP to install and service.



The Red Jacket STP

The demand for higher fuel flows and lower power consumption while maintaining flexibility for service, drove the development of advanced packer and motor designs on all The Red Jacket STP models.

Standard Protection Level:



The Red Jacket AG STP

The increased presence of alcohol gases in fueling applications has triggered a change in the pumps needed to handle harsh conditions.

Enhanced Protection Level:



+25% More Stainless Steel Than TRJ



The Red Armor® STP

A specialty coating on the manifold and discharge head that withstands acetic acid exposure to prevent corrosion and pitting to the cast iron surface over time.

Maximum Protection Level:



30%+ More Stainless Steel Than AG

► Fuel Compatibility Matrix

The Red Jacket STP portfolio offers increasing levels of stainless-steel construction and fuel compatibility to meet the needs of standard fueling, renewable fuel applications, and corrosive environments. The matrix below compares fuel compatibility across The Red Jacket STP, The Red Jacket Alcohol Gas (AG) STP, and The Red Armor STP using three status designations: cULus Listed, Compatible (but not cULus Listed), and Not Compatible.

Fuel Type	The Red Jacket STP	The Red Jacket AG STP	The Red Armor STP
100% Gasoline	✓ cULus Listed	✓ cULus Listed	✓ cULus Listed
Gasoline with up to 10% Ethanol (E10)	✓ cULus Listed	✓ cULus Listed	✓ cULus Listed
Gasoline with up to 15% Ethanol (E15)	⚠ Compatible	✓ cULus Listed	✓ cULus Listed
Gasoline with up to 20% Ethanol (E20)	⚠ Compatible	✓ cULus Listed	✓ cULus Listed
Gasoline with up to 25% Ethanol (E25)	✗ Not Compatible	✓ cULus Listed	✓ cULus Listed
Gasoline with up to 85% Ethanol (E85)	✗ Not Compatible	✓ cULus Listed	✓ cULus Listed
Gasoline with up to 90% Ethanol	✗ Not Compatible	⚠ Compatible	⚠ Compatible
Gasoline with up to 20% Methanol	⚠ Compatible	⚠ Compatible	⚠ Compatible
100% Diesel	✓ cULus Listed	✓ cULus Listed	✓ cULus Listed
Diesel with up to 5% Biodiesel (B5)	✓ cULus Listed	✓ cULus Listed	✓ cULus Listed
Diesel with up to 20% Biodiesel (B20)	⚠ Compatible	✓ cULus Listed	✓ cULus Listed
100% Biodiesel (B100)	✗ Not Compatible	✓ cULus Listed	✓ cULus Listed
Kerosene	✓ cULus Listed	✓ cULus Listed	✓ cULus Listed
Fuel Oil	✓ cULus Listed	✓ cULus Listed	✓ cULus Listed
100% Methanol	✗ Not Compatible	⚠ Compatible	⚠ Compatible
Jet Fuel	✗ Not Compatible	⚠ Compatible	⚠ Compatible
AVGAS	✗ Not Compatible	⚠ Compatible	⚠ Compatible

► Frequently Asked Questions

1 What is the difference between the three STP models?

The Red Jacket STP is the foundation model for high-throughput, high-reliability fueling (cULus 79). The Red Jacket AG STP increases stainless-steel hardware in the fuel path by +25% and adds renewable-biofuel listings (cULus 79A and 79B). The Red Armor STP adds a further 30%+ stainless-steel hardware and is built specifically to withstand corrosive environments while supporting every fuel type of the other two models.

2 What does “cULus” mean, and how is it different from UL or cUL?

cULus refers to a UL Listed product that has been independently tested by UL Solutions for use in both the United States and Canada. It was formerly stated as “UL/cUL.” cULus 79 covers conventional fuels; cULus 79A covers high-ethanol gasoline blends (up to E85); and cULus 79B covers biodiesel blends (up to B20 and B100).

3 What does “Compatible” mean?

A fuel shown as compatible (but not cULus Listed) will operate in that fuel and is covered by the Veeder-Root warranty; however, the product does not carry a cULus Listing for that fuel. When cULus Listed is a customer requirement, it is essential that Sales recommends the correct Red Jacket product to meet that requirement.

4 Why is B20 shown as “cULus Listed” for the AG and Red Armor STP but only “Compatible” for the base STP?

cULus 79 covers conventional fuels; cULus 79A covers high-ethanol gasoline blends (up to E85); and cULus 79B covers biodiesel blends (up to B20 and B100). Diesel with up to 20% Biodiesel (B20) is listed under cULus 79B, which applies to the AG STP and (by extension) The Red Armor STP. The base Red Jacket STP is material-compatible with B20 but is not covered by the 79B listing, so it appears as “compatible but not cULus Listed.”

5 How do I read the corrosion-protection progression?

Protection level increases as you move from left to right in the lineup: The Red Jacket STP provides standard protection; The Red Jacket AG STP adds stainless-steel fuel-path hardware for renewable fuels; and The Red Armor STP is designed for the harshest conditions — microbial growth in ultra-low-sulfur diesel tanks, constant moisture or water ingress into sumps, and known corrosive environments.

