



FE PETRO

SUBMERSIBLE PUMPS

Item code: FE-PETRO-SUBMERSIBLE

Available range 1.5HP / 2HP and 4HP - 50 or 60 hertz power. FE Petro brand Submersible Pumping Systems offer industry leading-fuel dispensing rates, premium efficiency and unmatched reliability. These high performance submersible pumps, controls, and leak detectors provide the total solution for safely moving fuel from the tank to the dispenser.

The FE Petro High Capacity Pump delivers efficient, reliable and quiet performance when high volumes or high speed deliveries of gasoline or diesel fuel are required.

FEATURES:

Available in variable length and fixed length options.

- **Check valve:** 2 3/4 diameter fluorocarbon viton seal constructed on cast aluminum body and steel backing washer.
- **Pressure relief valve:** Available in four pressure relief settings, integral to check valve. Standard model relieves at 40 psi and resets above 35 psi.

- **Syphon:** Venturi type syphon primer supplied with every submersible. Syphon check valve and secondary syphon.
- sold separately.
- **Air eliminator:** Every submersible includes tank return path, with one-way check valve, to provide active air elimination.
- **Electrical disconnect:** Electrical yoke for positive contractor disconnect during service.

PRODUCT RANGE:

Code	Description	Max. Flow Rate	Max. Pressure
STP75B-VL2-07+STP-SCI	3/4 HP Submersible Pump Single Phase c/w Smart Controller	240Lpm	31 psi
STP150B-VL2-07+STP-SCI	1.5 HP Submersible Pump Single Phase c/w Smart Controller	370Lpm	34 psi
STPV52-VL2-07≠ECOVCFC	2 HP Three Phase Submersible Pump c/w ECOVCFC Controller	450Lpm	36 psi
STPVS4-VL2-XX	4 HP Three Phase Submersible Pump	520Lpm	42 psi
STP(SAA)5CKIT	5 HP High Capacity Three Phase Submersible Pump	1000Lpm	45 psi



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FEATURES:

Faster Fueling Times:

- With innovations like MagShell™, FE Petro products set the standard for submersible pump performance.

Active Air Eliminator:

- FE Petro products come standard with active air elimination, which eliminates air through the highest point in the pump head at all times when the pump is running, assuring air does not pass into discharge piping.

Safety and Ease of Maintenance:

- FE Petro STPs include a contractor electrical disconnect, which requires loosening only one bolt, allowing motor wiring to be disconnected without venting the dangerous tank vapors into the sump when servicing FE Petro submersible products.

Simple Servicing:

- If ever required, the pump can be easily removed from the tank by unthreading three bolts. There is no need to disconnect the syphon system or to remove the leak detector from the system to service the STP.

Manual Pressure Relief:

- A standard FE Petro feature. A vent screw is provided to bleed line pressure to zero when necessary. By turning this screw, product is diverted back to the tank, dropping line pressure to zero. This reduces fuel discharged into the sump manhole or dispenser pan during servicing, further protecting service technicians and the environment.

Reliable Check Valve:

- The STP uses FE PETRO's proven line check valve. At 23/4" in diameter, this valve reduces pressure loss at high flow rates resulting in faster fueling times.

Variable Length:

- The VL2 pump fits 94% of all known tank diameters and tank bury depth combinations. The VL1 and VL3 are available to handle installations shorter or longer than this range. The telescoping connection is a patented FE Petro feature. Pump length can be set by making one simple measurement and setting the pump length without affecting the UL listing of the pump.

LIQUIDS COMPATIBILITY:

- Max. liquid viscosity: 70 SSU at 60 °F (15 °C).
- Variable speed models are UL and cUL Listed for fuel mixtures containing up to 10% ethanol, and 20% MTBE, 20% ETBE or 17% TAME with gasoline.
- Variable speed (non-AG) models can also be used with diesel fuels, fuel oils, kerosene, Avgas and jet fuels in a non-gelled pourable state.
- All wetted elastomers are made of a high grade, fluorocarbon compound.

PUMP MOTOR:

- Fixed Speed, 3450 rpm, multi-stage centrifugal type pump motor with built-in, automatic, thermal overload protection.
- High Capacity Pump 60 Hz models are all available as 2 stage versions only.

POWER REQUIREMENTS:

- High Capacity Pump models require three phase, 60 Hertz incoming power.
- High Capacity Pump models are available as 208-230 VAC, 460VAC, or 575 VAC versions.
- High Capacity Pump models are available in 3 hp & 5 hp versions.
- STP-SCIII Three Phase Smart Controllers and STP-CB3/5 Three Phase Control Boxes are available for High Capacity Pump control.

APPROVALS:

- HCP models are UL and cUL listed.
- Consult factory for other applicable approvals Quality Certification.
- Franklin Fueling Systems is an ISO 9001 Certified Manufacturer.