

# 4" SUBMERSIBLE TURBINE PUMPS

Since hitting the market in 1988, FE PETRO® brand submersible pumps have developed a reputation as the standard in performance, quality and dependability with innovative features only available from Franklin Fueling Systems. It is, and always will be about filling cars faster. With best-in-class flow rates and backed by a long history of dependability, FE PETRO® pumps are responsible for delivering fuel to thousands of customers around the globe, day in and day out.



## HIGHLIGHTS

### Variable Speed

With faster fill times during peak hours and power savings during non-peak hours, variable speed submersible pumping systems allow you to maximize profits with consistent flow rates while mitigating operating expenses.

### MagShell®

The patented stainless steel MagShell®, available on 2 Hp and 4 Hp pumps, is designed to maximize flow rate capabilities, potential throughput, and profits. By expanding the pump motor shell, the MagShell® increases the area for product flow by 45%.

### Biofuel Blend Compatibility

FE PETRO® Alcohol-Gas (AG) and Advanced Protection (AP) pumps are UL listed with both UL79A (up to 85% Ethanol) and UL79B (up to 20% or 100% Biodiesel).

### Variable Length

The patented telescoping pump shaft lets installers adjust the length of the pump onsite for the perfect fit.

### Advanced Protection

Stop corrosion in its tracks. Special powder-coated, e-coated, and stainless steel components defend your pump in the tank and in the sump from accelerated corrosion.

### Turbine Pump Interface

Remote enhanced pump monitoring and control including pump-in-water automation, clogged intake escalation, tank leveling, and tank priority.

### Intake Filter Screen

Avoid system damage, pumping slowdowns, and reduce filter changes by keeping harmful tank debris, sediment, and corrosion from entering the pumping system with this factory-installed option.

## FEATURE SELECTION

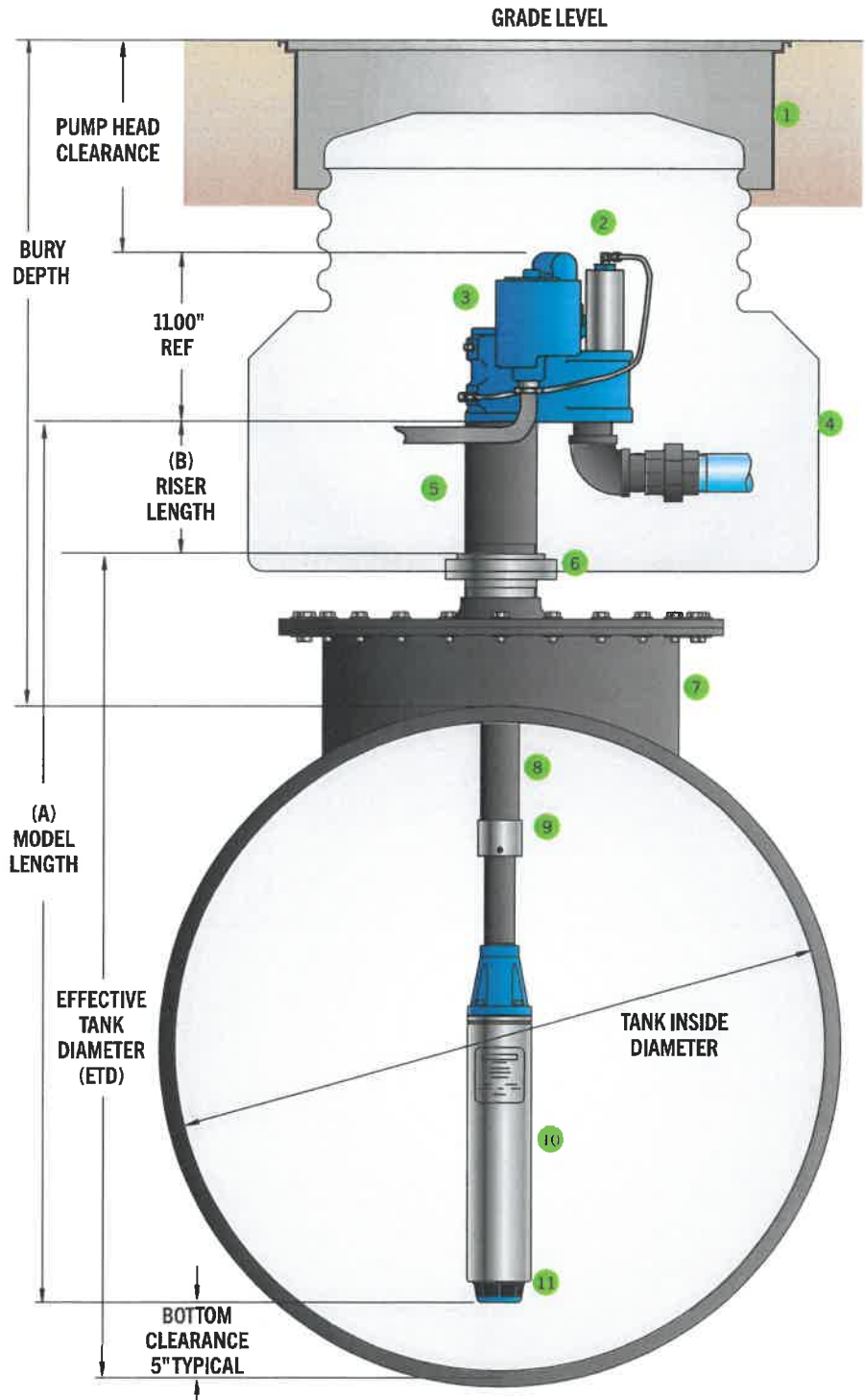
	4 HP	2 HP	1 1/2 HP	1/3 3/4 HP
Variable Speed	✓	✓	✓	✓
Fixed Speed	✓	✓	✓	✓
MagShell®	✓	✓	✓	✓
Biofuel Compatibility*	✓	✓	✓	✓
Variable Length	✓	✓	✓	✓
Fixed Length	✓	✓	✓	✓
Advanced Protection	✓	✓	✓	✓
Turbine Pump Interface**	✓	✓	✓	✓
Intake Filter Screen	✓	✓	✓	✓

\*Up to 85% Ethanol and up to 20% or 100% Biodiesel.  
 \*\*Fixed speed models require a Guardian Series™ Single Phase Smart Controller (SPGC-220) to network with EVO™ Series Automatic Tank Gauges.

# SPECIFICATIONS

## 4" Submersible Pump Components & Key Dimensions

- 1 Manhole
- 2 Leak Detector
- 3 Manifold
- 4 Containment Sump
- 5 4" Riser
- 6 Tank Adapter
- 7 Tank Manway
- 8 Column Pipe
- 9 Variable Length Coupler
- 10 Pump Motor Assembly (PMA)
- 11 End Bell



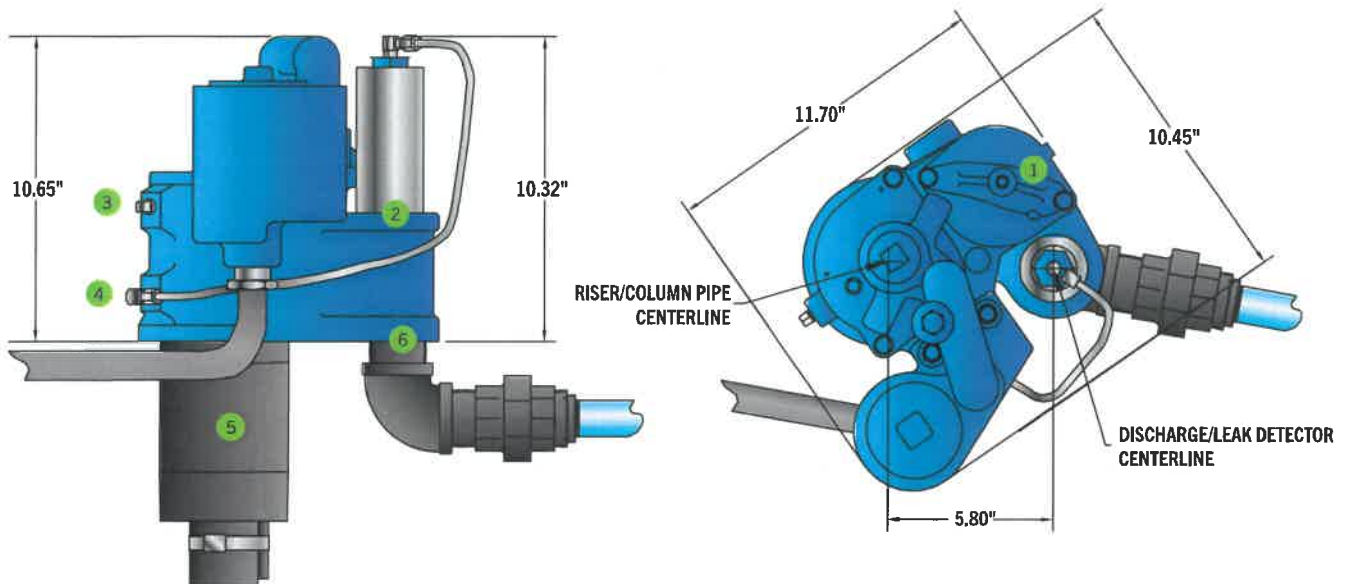
**Notes:**

1. Effective tank diameter (ETD) = Inside tank diameter (to top of 4" bung), including tank manway and/or sump adapter.
2. Model length (A) = ETD plus riser length minus bottom clearance minus 1" thread engagement.
3. Riser length (B) = Bury depth (to top of tank) minus pump head clearance minus tank manway and/or minus sump adapter.

## SPECIFICATIONS CONTINUED

### 4" Submersible Pump Manifold Components & Key Dimensions

- |                              |                       |                            |
|------------------------------|-----------------------|----------------------------|
| 1 Line Test Port, ¼" NPT     | 3 Syphon Port, ¼" NPT | 5 Riser Pipe, 4" NPT       |
| 2 Leak Detector Port, 2" NPT | 4 Tank Port, ¼" NPT   | 6 Discharge Outlet, 2" NPT |



### Fuel Compatibility for All Submersible Turbine Pumps

#### STP Standard Submersible Turbine Pumps with Fixed or Variable Speed Pump Motor Assembly

- UL79 for petroleum dispensing products intended for use with gasoline or gasoline/ethanol blends with nominal ethanol concentrations up to 10 percent (gasohol, E10), diesel fuel, diesel/biodiesel blends with nominal biodiesel concentrations up to 5 percent (B5), kerosene, or fuel oil.
- 20% MTBE, 20% ETBE or 17% TAME with gasoline.

#### STPAG, STPAP, IST, ISTAP Alcohol-Grade Compatible and Advanced Protection Fixed or Variable Speed Submersible Turbine Pumps

- UL79A for gasoline and gasoline/ethanol blends with nominal ethanol concentrations up to 85 percent (E0 - E85) for products intended for use with gasoline or gasoline/ethanol blends with nominal ethanol concentrations up to 85 percent (E85).
- 20% MTBE, 20% ETBE or 17% TAME with gasoline.
- UL79B for diesel fuel, biodiesel fuel, diesel/biodiesel blends with nominal biodiesel concentrations up to 20 percent (B20), kerosene, and fuel oil for products intended for use with diesel fuel, biodiesel fuel, diesel/biodiesel blends with nominal biodiesel concentrations up to 20 percent (B20), kerosene or fuel oil.
- 100% biodiesel.