

Pump Designation Listing

4" Pumps - A typical FE Petro 4" pump model number will have up to seven components defining the pump being supplied. The format for model designation is as follows. See back of this document for examples of model designation.

XXX (XXX) YYYYY ZZZ V - WWW - QQ
 1 2 3 4 5 6 7

1 = Basic Model Designation

IST Intelligent Submersible Turbine (VS2 is implied if not suffixed with VS4. AG is always implied with IST)
 STP Submerged Turbine Pump

2 = Approval Option Designations

ATX European
 RT Russian
 SAA Australia

3 = Basic Mechanical Option Designations

AG* Suitable for blend concentrations of: 0% - 15% ethanol or methanol 20% MTBE with 80% gasoline
 (Standard on IST) 20% ETBE with 80% gasoline 17% TAME with 83% gasoline

EXT Extractable portion – less motor and hardware (STPs and ISTs)
 F Floating suction adapter
 H High pressure (2 and 1-1/2 HP models only)
 K Intake Filter Screen (IFS) assembled onto turbine in manufacturing (4" models only)
 L Foot valve diffuser (4" PMAs only)
 M *MagShell*™, expanded PMA shell for 2 HP (both fixed and variable speed) and 4 HP models only.
 R** Check Valve set to reset about 22 psi; for use with Veeder Root Pressure Electronic Line Leak Detectors
 S Syphon Check Valve included, but not attached.
 V Vapor recovery discharge port (4" models only)
 W** Check Valve set to reset about 13 psi - for use with Red Jacket Electronic Line Leak Detectors.

* Standard 4" models are suitable for same blend concentrations of ETBE, MTBE, and TAME as AG, but, with gasoline, only concentrations of 0% - 15% ethanol or methanol are suitable.
 ** If not specified, a "STD" check valve (which holds at 35-45 psi) is implied.

4 = Motor Horsepower Rating

33 1/3 HP fixed speed
 75 3/4 HP fixed speed
 150 1 1/2 HP fixed speed
 200 2 HP fixed speed
 VS2 2 HP variable speed
 VS4 4 HP variable speed

Note: IST (Intelligent Submersible Turbine) pumps use a Variable Speed 2 HP when no suffix is present and a Variable Speed 4 HP when the VS4 suffix appears.

5 = Voltage, Frequency, and Phase Ratings

A 208-230 V, 60 Hz, single phase (assumed if no rating is specified)
 B 200-250 V, 50 Hz, single phase
 C 380-415 V, 50 Hz, three phase
 E 200 V, 60 Hz, three phase
 F 200 V, 50 Hz, three phase

Note: Variable Speed motors have a 190V, 70 Hz, three phase rating. The required power is produced from either an IST-VFC or a *MagVFC* controller.

6 = Model Length

A three digit number that represents the pump length in inches. IST uses 1, 2, or 3 to denote length. Variable length STPs and ISTVS4s use VL1, VL2, or VL3 to denote length. See price list for actual variable model length ranges.

7 = Riser Length

Numeric characters that indicate length of riser pipe in inches. See price list for actual stocked riser lengths.

