

# ADVANCED PROTECTION SUBMERSIBLE PUMPS

Available as a factory installed option on STPAG and IST biofuel compatible submersible turbine pumps, Advanced Protection defends STPs from accelerated corrosion caused by the acetic byproduct of microbial activity.

## HIGHLIGHTS

- Powder-coated and E-coated finishes protect exterior cast surfaces from accelerated corrosion.
- Stainless steel fasteners, riser, variable length column pipe and coupler protect against corrosion and provide long service life.
- UL and cUL listed.

## ORDERING INFORMATION

### STP XXXXXY-A-B

**STP = Basic Model Designation (IST for variable speed models)**

**XXXXX = Factory Installed Options** (Model designations may include one or more of the following characters in alphabetical order.)

AP = Advanced protection with coated exterior cast surfaces, stainless steel fasteners and piping, alcohol-gasoline compatible)

F = Floating suction adapter (1 1/2" NPT female adapter)

H = High pressure deadhead output (150 and 200 models only)

K = Intake filter screen (IFS, factory installed to PMA)

M = MagShell™ (flow enhancing, expanded PMA shell)

R = Model R check valve (24 psi relief/22 psi reset for PLLD)\*

W = Model W check valve (16 psi relief/13 psi reset for PPM4000)\*

### Y = Pump Motor Horsepower Rating

33 = 1/3 hp fixed speed

200 = 2 hp fixed speed

75 = 3/4 hp fixed speed

VS2 = 2 hp variable speed\*\*

150 = 1 1/2 hp fixed speed

VS4 = 4 hp variable speed\*\*\*

### A = Model Length

VL1 = Variable length range #1

VL2 = Variable length range #2

VL3 = Variable length range #3

### B = Riser Pipe Length

Riser pipe length is expressed as two numeric characters that indicate the total length of the riser in inches. Riser pipes are available from 7" to 60" in 1" increments (additional charge for risers 31" or longer).

\*If not otherwise specified, all STP models are supplied with standard model check valve (40 psi relief /35 psi reset for MLD, TS-LS300, and TS-LS500).

\*\*Implied on IST models unless VS4 is specified.

\*\*\* IST models only.



(Advanced Protection STP shown with MLD+ and IFS, sold separately)

## ORDERING INFORMATION

## Advanced Protection Submersible Turbine Pumps

| Model          | Description                                      | Model Length Range* |
|----------------|--|---------------------|
| ISTAPMVS4-VL1  | 4 hp AP variable speed with MagShell™            | 64"-92"             |
| ISTAPMVS4-VL2  | 4 hp AP variable speed with MagShell™            | 95"-156"            |
| ISTAPMVS4-VL3  | 4 hp AP variable speed with MagShell™            | 127"-218"           |
| ISTAPM-1       | 2 hp AP variable speed with MagShell™            | 59"-87"             |
| ISTAPM-2       | 2 hp AP variable speed with MagShell™            | 90"-151"            |
| ISTAPM-3       | 2 hp AP variable speed with MagShell™            | 122"-213"           |
| STPAPM200-VL1  | 2 hp AP fixed speed with MagShell™               | 63"-91"             |
| STPAPM200-VL2  | 2 hp AP fixed speed with MagShell™               | 94"-154"            |
| STPAPM200-VL3  | 2 hp AP fixed speed with MagShell™               | 126"-217"           |
| STPAPHM200-VL1 | 2 hp AP high pressure fixed speed with MagShell™ | 63"-92"             |
| STPAPHM200-VL2 | 2 hp AP high pressure fixed speed with MagShell™ | 94"-155"            |
| STPAPHM200-VL3 | 2 hp AP high pressure fixed speed with MagShell™ | 126"-218"           |
| STPAP150-VL1   | 1-1/2 hp AP fixed speed                          | 60"-88"             |
| STPAP150-VL2   | 1-1/2 hp AP fixed speed                          | 91"-152"            |
| STPAP150-VL3   | 1-1/2 hp AP fixed speed                          | 123"-214"           |
| STPAPH150-VL1  | 1-1/2 hp AP high pressure fixed speed            | 61"-89"             |
| STPAPH150-VL2  | 1-1/2 hp AP high pressure fixed speed            | 92"-152"            |
| STPAPH150-VL3  | 1-1/2 hp AP high pressure fixed speed            | 124"-215"           |
| STPAP75-VL1    | 3/4 hp AP fixed speed                            | 57"-86"             |
| STPAP75-VL2    | 3/4 hp AP fixed speed                            | 88"-149"            |
| STPAP75-VL3    | 3/4 hp AP fixed speed                            | 120"-212"           |

## Notes:

1. Remove "M" from model number for non-MagShell™ pump motor assembly (where applicable).
2. STPAP/ISTAP models are listed for compatibility with fuel mixtures containing diesel fuel with up to 20% biodiesel, 100% biodiesel, up to 85% ethanol with gasoline, and 20% MTBE, 20% ETBE or 17% TAME with gasoline.
3. All models are supplied with a standard check valve unless factory option "R" or "W" is specified.
4. All above ISTAP models can only be powered by a MagVFC™. 4 hp models require three-phase incoming power supply, 2 hp models can be supplied with single- or three-phase incoming power.
5. All above STPAP models require single-phase, 208-230 VAC, 60 Hz incoming power.
6. 4" riser pipe, if supplied locally, must be 4½" OD by 3/16" WT tubing.
7. For riser pipe lengths 31" to 60", adder charge applies.

\*Model length (A) defined as the dimension from the turbine manifold bottom to the pump motor inlet.

## Factory Installed Options

Specified in model number at time of STP order.

| Model | Description  |
|-------|--|
| F     | Floating suction adapter, 1½" NPT female, must be factory installed      |
| K     | IFS (intake filter screen) factory assembled to pump motor assembly      |
| R     | Model R check valve, factory installed, for Veeder-Root™ PLLD Line Leak  |
| W     | Model W check valve, factory installed, for Red Jacket PPM4000 Line Leak |

## ORDERING INFORMATION

## Field Installed Options

| Model      | Description  |
|------------|--|
| 5874202800 | MagVFC™, 2 hp or 4 hp variable frequency controller, one required per IST                  |
| 400137908  | Syphon check valve (when ordered with STP)   |
| 400818921  | STP-CBS, single-phase control box with lockout switch, 110 Volt coil                       |
| 402312921  | STP-DHI-SCI, combo DHI with factory wired STP-SCI (when purchased with a 4" STP)*          |
| 402312921  | STP-DHI-SCI, combo DHI with factory wired STP-SCI (when purchased without a 4" STP)        |
| 402313921  | STP-DHI-CBS, combo DHI with factory wired STP-CBS  |
| 402459931  | Model 65 psi check valve (for slave of manifolded STPs with Veeder-Root™ PLLD)             |
| 402507930  | Secondary syphon kit (when two syphon primes are required for one STP)                     |
| 5800100215 | STP-SCI, single-phase smart controller (when purchased without a 4" STP)                   |
| 5800100215 | STP-SCI, single-phase smart controller (when purchased with a 4" STP)*                     |
| 5800300100 | STP-DHI, dispenser hook isolation for 110 Volt dispenser handle switches, up to eight each |

\*When purchasing STP-SCI or STP-DHI-SCI in equal quantities of fixed speed 4" STPs, the STP-SCI or STP-DHI-SCI will be invoiced at special discount pricing.



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