The SP Split Case family of pumps are designed for nearly any application and the harshest conditions. Providing versatility to adjust to your job requirements while providing you the long life and ease of maintenance you expect. Bearings and housings can be inspected and replaced without breaking into the pump cavity. This series also features a completely removable and replaceable packing housing and vortex suppressor assuring the best performance over the extended life this product offers.
SP & V-SP SERIES SPLIT CASE PUMPS

FEATURES
- Bronze Impeller: dynamically balanced, double suction, enclosed
- 420 Stainless Steel Shaft: oversized to minimize deflection
- Bronze case wear rings standard, API stepped design
- Heavy Duty ASTM A48 Class 30 Cast Iron casing
- 125# suction and discharge flange with 250# Cast dimensions
- Drilled and tapped suction and discharge flanges
- Thru-Bore casing allows quick and easy removal of the rotor assembly including both stuffing boxes
- Removable and replaceable packing housing and vortex suppressor
- Upgraded PTFE impregnated graphite packing standard in all models
- 50,000+ hour minimum L10 bearing life; many over 100,000 hours
- Suction and discharge gauge connections
- Available in other metallurgies
- V-SP Vertical Series is equipped with a lubricated bottom radial bearing and a high-thrust top bearing to handle additional hanging weight of the rotating assembly

APPLICATIONS
- Pressure Boosting
- Water Supply and Treatment
- Cooling Towers/Circulating Water
- Raw Water Transfer
- Dewatering and Irrigation
- Cargo Loading and Unloading

SPECIFICATIONS
- Capacities to 30,000+ gpm
- Heads to 550 feet
- Pressure to 238 psi
- Temperature range of 32-300 °F (0-128 °C)
- Sizes of 2.5x3-10 to 20x24-22

MATERIALS OF CONSTRUCTION

<table>
<thead>
<tr>
<th>Description</th>
<th>Standard Configuration</th>
<th>Optional Configurations</th>
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<tr>
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<td>Bronze Fitted</td>
<td>316 SS Fitted</td>
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<tr>
<td>Casing</td>
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<td>Cast Iron</td>
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<tr>
<td>Stuffing Box</td>
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<td>C836 Bronze</td>
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<tr>
<td>Shaft</td>
<td>420 SS</td>
<td>420 SS</td>
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<tr>
<td>Shaft Sleeve</td>
<td>C952 Bronze</td>
<td>316 SS</td>
</tr>
<tr>
<td>Bearing Cap</td>
<td>Cast Iron</td>
<td>Cast Iron</td>
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<tr>
<td>Bearing Housing</td>
<td>Cast Iron</td>
<td>Cast Iron</td>
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<tr>
<td>Packing*</td>
<td>PTFE / Graphite</td>
<td></td>
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<tr>
<td>Mechanical Seal*</td>
<td>Carbon vs. Silicon Carbide / FKM / 304 SS</td>
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</tr>
<tr>
<td>Impeller Wear Ring**</td>
<td>Bronze</td>
<td>316 SS</td>
</tr>
</tbody>
</table>

* Optional materials available; refer to factory for requested materials
** Optional item; not included as standard
SP & V-SP SERIES SPLIT CASE PUMPS

CONSTRUCTION FEATURES

1. Impellers
   - One-piece bronze or other specified alloy
   - Dynamically balanced prior to assembly
   - Machined to accept external shaft sleeve o-ring

2. Casing
   - Heavy-duty ASTM A48 class 30 cast iron
   - Heavy wall allows for generous corrosion allowance with a 20-year design life
   - Unique Thru-Bore lineboring machining operation allows the entire rotor assembly, including seal chambers, to be removed as a single unit
   - Suction and discharge flanges are cast to 250# dimensions and drill for 125# connection standard
   - Studded construction make for a quick assembly process

3. Shaft Sleeves
   - Easily replaceable, heavy wall bronze shaft sleeve standard
   - Exclusive external o-ring groove allows for damage free installation

4. Bearing Housing
   - Bearing housing design allows for the complete removal of the bearing housing without removing casing top
   - Uses interchangeable single row, deep groove ball bearings standard
   - Oil lip seal keeps contaminants out of the bearing housing with optional bearing isolators
   - Grease lubrication standard

5. Casing Wear Rings
   - Standard case wear ring is supplied in bronze or other specified alloy
   - Easily removed and replaced without additional machining
   - API stepped design breaks down pressure more efficiently
   - Locked in place with anti-rotation pins

6. Stuffing Boxes/Seal Chambers
   - Heavy-duty class 30 cast iron or other specified alloy
   - Internal Plan 1 flush standard; external flush optional
   - Thru-Bore allows for removal with rotor assembly
   - Integral seal failure port standard
   - Integral vortex suppressor that can be replaced if worn or damaged

7. Shaft
   - Corrosion-resistant 420 stainless steel
   - Oversized for unplanned loads and to minimize deflection
SP & V-SP SERIES SPLIT CASE PUMPS

PERFORMANCE

2-POLE, 3500 RPM

4-POLE, 1760 RPM
## SP & V-SP SERIES SPLIT CASE PUMPS

### DIMENSIONS

<table>
<thead>
<tr>
<th>Module</th>
<th>Pump Size</th>
<th>Dimensions (in)</th>
<th>Pump Wt. (lbs)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
<td>D</td>
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Franklin Electric’s dedicated support teams have your back every step of the way. Our products and services are backed by features unique to the Franklin Experience:

Access to the industry’s leading Technical Support professionals and Field Service Engineers.

FE SELECT Ability to size, configure, price, & quote with FE SELECT™.