Series 305 (float shoe) and 340 (float collar) float equipment utilizes Antelope’s proven Flow-Guard Max I (FGMax I) plunger valve. All float equipment is designed and tested to API RP10F Category IIIC in a state of the art flow loop facility ensuring product quality.

APPLICATIONS

• Series 305 float shoe is supplied with a round nose by default and is used to guide casing to target depth.
• The plunger valve ensures the casing is floated to bottom, hereby assisting in easy run-in.
• The shoe is normally run with Series 340 float collar, which is used to bump cement wiper plugs and also provide an additional barrier against U-tubing. This also allows for contaminated cement to be trapped within casing.

FEATURES & BENEFITS

• Round nose on float shoe assist in guiding casing to target depth.
• Large flow area ensures minimal abrasion occurs to the valve.
• All phenolic plunger protects against erosion.
• Balanced spring force ensures sealing occurs even in low differential pressures.
• Valve assembly made from high temperature, high strength phenolic allows for easy drill out.
• PDC and Tri-cone drillable.

OPTIONS

• Non-rotating – a plate is cemented in the float equipment and used with compatible wiper plugs to help with faster drill out.
• Float shoes can be provided with ports (up, down or side) and various types of noses to suit different applications.
• Single or dual valve configuration.
• Pre-set as auto-fill.
• Premium grade and connection.

VALVE SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Valve Size:</th>
<th>63 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve Type:</td>
<td>Phenolic Plunger</td>
</tr>
<tr>
<td>API RP10F Rating:</td>
<td>Category IIIC</td>
</tr>
<tr>
<td>Tested Flow Rate:</td>
<td>10 BPM</td>
</tr>
<tr>
<td>Tested Flow Durability:</td>
<td>24 Hours</td>
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<tr>
<td>Temperature Rating:</td>
<td>400°F</td>
</tr>
<tr>
<td>Back Pressure Rating:</td>
<td>5000 psi*</td>
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<tr>
<td>Inlet ID:</td>
<td>1.875 in</td>
</tr>
<tr>
<td>Minimum Flow Area:</td>
<td>2.76 in²</td>
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</tbody>
</table>

* Backpressure rating shown applies to valve in 4 1/2" to 9 5/8" casing sizes.
Latch-in plugs provide cost effective solutions for fluid separation and the removal of excess mud and cement film from the casing wall while cementing production tubing or completion strings. The ratchet latch system allows multiple bottom plugs to be run and latched into each other and into compatible Antelope float equipment. These latch-in plugs can withstand high plug bump and back pressures. Precision high pressure rupture discs allow the plugs to run through restrictions without premature rupture. HNBR wiper fins provide superior wear resistance and high temperature performance, eliminating the need for clean out or scraper runs.

**PERFORMANCE FEATURES**

- Wear-resistant, high temperature HNBR fins provide efficient wiping and sealing for long casing and tubing strings at bottom hole circulating temperatures up to 350°F.

- Ratchet latch system allows use of multiple bottom plugs into which a top plug can be latched for high plug bump and back pressure applications.

- Top and bottom plugs latched into Antelope HPHT float equipment are capable of withstanding up to 10,000 psi plug bump pressure and 5,000 psi back pressure.

- Top plugs latched into Antelope HPHT float equipment are rated to 10,000 psi plug bump and back pressure.

- Compatible with Antelope Series 700 and 730 HPHT float equipment.

- Minimum 1.5” ID through bottom plug for flow rates up to 8 BPM.

**OPTIONS**

- Bottom plugs are available with rupture discs with 1250, 1500, and 3000 psi burst pressure ratings at 300°F.

- Dual top and dual bottom plugs are available for ultra-long casing strings.

- Latch-In plugs with lower cost nitrile HC fins are available for less demanding applications (generally casing lengths less than 14,000 feet and temperatures below 300°F).

- Currently available in sizes ranging from 4 ½” to 5 ½” and combinations of these sizes.
SERIES 306/341 – STAB-IN FLOAT EQUIPMENT

Series 306 (shoe) and 341 (collar) stab-in float equipment utilizes Antelope’s proven Flow-Guard Max I (FGMax I) phenolic plunger valve and robust stab-in receptacle for optimum inner string cementing. Tested in a state of the art facility, the float equipment is supplied with a valve rated to API RP10F category IIIC.

APPLICATIONS

• Suited for large diameter casing, where cement can be pumped through the drill pipe or tubing. This reduces circulation time and pump rates while eliminating the need of drilling out large volume of cement from the casing.
• Offshore well cementing where pumping through tubing is preferred.

FEATURES & BENEFITS

• Receptacle made from drillable aluminum alloy.
• Stinger (Series 007) has 4 o-rings providing a positive seal once stabbed into receptacle.
• Round nose on float shoe assist in guiding casing to target depth.
• Balanced spring force ensures sealing occurs even in low differential pressures.
• Valve assembly made from high temperature, high strength phenolic allows for easy drill out.
• PDC and Tri-cone drillable.

OPTIONS

• Float shoes can be provided with ports (up, down or side) and various types of noses to suit different applications.
• Single or dual valve configuration.
• Pre-set as auto-fill.
• Premium grade and connection.
Series 700 (float shoe) and 730 (float collar) float equipment utilizes a cast iron plunger valve that is capable of withstanding extreme well conditions.

APPLICATIONS

- Hydraulic fracturing where pressures can go up to 10,000 PSI.
- Casing strings with high annular pressures.

FEATURES & BENEFITS

- Eccentric nose profile to guide casing through ledges.
- Erosion resistant cast iron plunger ensures a positive seal even after 24 hours of circulation @ 10 BPM.
- Sealing elements around valve housing ensures there are no leak paths.
- Integrated latch-down profile for matching plugs capable of withstanding up to 10,000 PSI bump pressure.

OPTIONS

- Latch down plug to be ordered separately (Series 620).
- Float shoes can be provided with ports (up, down or side) and various types of noses to suit different applications.
- Single or dual valve configuration.
- Premium grade and connection.

VALVE SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>4 1/2&quot; to 5 1/2&quot;</td>
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<tr>
<td>Outlet flow-by area</td>
<td>5.53 in²</td>
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<tr>
<td>Inlet flow-by area</td>
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<tr>
<td>Flow Rate</td>
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<tr>
<td>Durability</td>
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<td>Plunger material</td>
<td>Cast Iron</td>
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<tr>
<td>Valve housing material</td>
<td>6061 Aluminum</td>
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<tr>
<td>Back Pressure</td>
<td>10,000 psi</td>
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</tbody>
</table>

*HPHT Float Equipment is not PDC Drillable