# Submittal Data Information

## Model 0013-IFC® Cartridge Circulator

**Effective:** January 12, 2015  
**Supersedes:** September 15, 2014

### Submittal Data Information

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>MODEL NO.</th>
<th>IMP. DIA.</th>
<th>G.P.M.</th>
<th>HEAD/FT.</th>
<th>H.P.</th>
<th>ELEC. CHAR.</th>
</tr>
</thead>
</table>

### Features

- **Integral Flow Check (IFC®):** Prevents gravity flow  
- Eliminates separate in-line flow check  
- Reduces installed cost, easy to service  
- Improved performance vs. In-line flow check  
- Unique replaceable cartridge - Field serviceable  
- Unmatched reliability - Maintenance free  
- Quiet, efficient operation  
- Direct drive - Low power consumption  
- Self lubricating, No mechanical seal  
- Standard high capacity output - Compact design  
- Wide range of applications  
- Cast Iron or St. Steel construction, Flanged

### Application

The 0013-IFC with an Integral Flow Check is designed to reduce installation costs when zoning with O0® circulators on high head / high flow hydronic or radiant heating, hydro-air fan coils or heat exchangers and geothermal systems. By locating the removable, spring-loaded IFC inside the pump casing, a separate in-line flow check is eliminated, reducing installation costs. The reduced pressure drop of the IFC increases the 0013 flow performance over in-line check valves. Both the IFC and cartridge are easily accessed for service instead of replacing the entire unit.

### Pump Dimensions & Weights

<table>
<thead>
<tr>
<th>Models</th>
<th>Casing</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
<th>G</th>
<th>Ship Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0013-F3-IFC</td>
<td>Cast Iron</td>
<td>7-1/2</td>
<td>191</td>
<td>6-3/8</td>
<td>162</td>
<td>3-1/2</td>
<td>89</td>
<td>6 152</td>
</tr>
<tr>
<td>0013-SF3-IFC</td>
<td>St. Steel</td>
<td>7-1/2</td>
<td>191</td>
<td>6-3/8</td>
<td>162</td>
<td>3-1/2</td>
<td>89</td>
<td>6 152</td>
</tr>
</tbody>
</table>

### Electrical Data

<table>
<thead>
<tr>
<th>Model</th>
<th>Volts</th>
<th>Hz</th>
<th>Ph</th>
<th>Amps</th>
<th>RPM</th>
<th>HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Models</td>
<td>115</td>
<td>60</td>
<td>1</td>
<td>2.0</td>
<td>1320</td>
<td>1/6</td>
</tr>
</tbody>
</table>

### Materials of Construction

- **Casing (Volute):** Cast Iron or Stainless Steel  
- **Integral Flow Check:**  
  - Body, Plunger: Acetal  
  - O-ring Seals: EPDM  
  - Spring: Stainless Steel  
- **Stator Housing:** Aluminum  
- **Cartridge:** Stainless Steel  
- **Impeller:** Non-Metallic  
- **Shaft:** Ceramic  
- **Bearings:** Carbon  
- **O-Ring & Gaskets:** EPDM

### Model Nomenclature

- **F** – Cast Iron, Flanged  
- **SF** – Stainless Steel, Flanged  
- **IFC** – Integral Flow Check

### Performance Data

- **Max. Flow:** 33 GPM  
- **Max. Head:** 32 Feet  
- **Min. Fluid Temperature:** 40°F (4°C)  
- **Max. Fluid Temperature:** 230°F (110°C)  
- **Max. Working Pressure:** 150 psi  
- **Connection Sizes:** 3/4", 1", 1-1/4", 1-1/2" Flanged

### Certifications & Listings

- UL Listed  
- FOR INDOOR USE ONLY  
- NSF  
- Low-Lead Compliant

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