High Level Pilot Valve

The High Level Pilot Valve (HLPV) is used on the F-14 fuselage tank. The HLPV uses a plastic foam float to control the main pilot valve. The pilot valve is normally open until the fuel level rises enough to raise the float and shut the pilot.

The HLPV also has a pre-check port which allows the HLPV function to be verified prior to fueling. When fuel pressure is applied to the pre-check port, the bowl fills and raises the float to shut off the main pilot valve within five seconds. The pilot also closes to prevent fuel flow when a negative “g” load is applied.

Features

- Float shut-off indicator
- Pilot port per MS33649-6
- Drain float
- Pre-check port per MS33649-04
- Negative gravity shutoff

Operating Parameters

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Pressure</td>
<td>80 psig</td>
</tr>
<tr>
<td>Proof Pressure</td>
<td>180 psig</td>
</tr>
<tr>
<td>Burst Pressure</td>
<td>240 psig</td>
</tr>
<tr>
<td>Flow Rate</td>
<td>1.3 gpm</td>
</tr>
<tr>
<td>Temperature</td>
<td>-65° to +200°F</td>
</tr>
<tr>
<td>Temperature Non Operating</td>
<td>-65° to +270°F</td>
</tr>
<tr>
<td>Operating Time</td>
<td>5 seconds max</td>
</tr>
<tr>
<td>Weight</td>
<td>0.66 lbs max</td>
</tr>
</tbody>
</table>

Performance characteristics are based on customer requirements. As such, they are not representative of component capabilities or limitations.
Side View

- MS21209F1-15 insert
- .32 min engagement
- 3 places

Shutoff level

Reopening level

Top View

- Pilot port per MS33649-6
- Precheck port

Dimensions:
- 3.00
- 1.50
- .75
- .72
- .40
- .10
- 4.25 max
- 3.22 ± .25
- 1.50
- 1.20
- 3.34
- 60