Pop-Off Valves
Stainless Steel Models

1”  890710, 890711  890712

2”  890703, 890713  890715, 890721

COMMON SPECIFICATIONS

- 316 Stainless Steel body.
- FPM seals and o-rings.
- Maximum temperature 300° F (149° C).

SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Flow Range</th>
<th>System Pressure Range</th>
<th>Inlet Port</th>
<th>By-Pass Port</th>
<th>Weight</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>890710</td>
<td>0-100 gpm</td>
<td>300-1500 psi</td>
<td>1” NPTM</td>
<td>1” NPTF</td>
<td>6.50 lbs</td>
<td>8.65 x 3.18”</td>
</tr>
<tr>
<td>890711</td>
<td>0-50 gpm</td>
<td>1000-6000 psi</td>
<td>1” NPTM</td>
<td>1” NPTF</td>
<td>6.50 lbs</td>
<td>8.93 x 3.18”</td>
</tr>
<tr>
<td>890712</td>
<td>0-115 gpm</td>
<td>500-3000 psi</td>
<td>1” NPTM</td>
<td>1” NPTF</td>
<td>6.50 lbs</td>
<td>8.93 x 3.18”</td>
</tr>
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<tr>
<td>890703</td>
<td>0-135 gpm</td>
<td>400-1500 psi</td>
<td>2” NPTM</td>
<td>2” NPTF</td>
<td>20.50 lbs</td>
<td>11.74 x 3.69”</td>
</tr>
<tr>
<td>890713</td>
<td>0-210 gpm</td>
<td>500-4000 psi</td>
<td>2” NPTM</td>
<td>2” NPTF</td>
<td>20.50 lbs</td>
<td>11.74 x 3.69”</td>
</tr>
<tr>
<td>890715</td>
<td>0-100 gpm</td>
<td>1000-8000 psi</td>
<td>2” NPTM</td>
<td>2” NPTF</td>
<td>20.50 lbs</td>
<td>11.74 x 3.69”</td>
</tr>
<tr>
<td>890721</td>
<td>0-100 gpm</td>
<td>1000-600 psi</td>
<td>2” NPTM</td>
<td>2” NPTF</td>
<td>20.50 lbs</td>
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Read all CAUTIONS and WARNINGS before commencing service or operation of any high-pressure system.

**SELECTION:**
Select a pop-off valve to meet or exceed the flow and pressure requirements of the system.

**INSTALLATION:**
The pop-off valve should be mounted in the discharge line before any pressure regulator or unloader in the system to provide optimum protection. The inlet port and by-pass ports are marked with arrows indicating the direction of the flow. The by-pass flow from the pop-off valve should be returned to a reservoir or drain to the floor, not to the inlet of the pump.

**OPERATION:**
This pop-off valve provides back-up protection to the primary relief valve for complete pressure relief and maximum pump and system protection.

**PRESSURE ADJUSTMENT:**

**SETTING:** Before system is brought up to pressure ensure that the primary pressure regulating device is set at its minimum setting. Adjust the pop-off valve to the high pressure setting by turning the adjustment nut.

Bring your system up to the desired pressure using the primary pressure device.

**NOTE:** If the pop-off valve relieves water in this process increase its setting. With your system operating at full pressure with the primary pressure device, slowly back the pop-off adjustment nut until a small amount of water is dripping. Immediately adjust in 1/2 turns at a time until dripping stops; (no more than [3] 1/2 turns should be required)

The pop-off valve is now set at approximately 10% over system pressure.

Contact Cat Pumps for part information.

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**TROUBLESHOOTING**

- **Valve Cycles**
  - Valve is improperly set.
  - Repeat adjustment procedure.

- **Valve continually by-passes**
  - Seat or ball is worn.

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**CAUTIONS AND WARNINGS**

All High Pressure Systems require a primary pressure regulating device (i.e. regulator, unloader) and a secondary pressure relief device (i.e. pop-off valve, relief valve). Failure to install such relief devices could result in personal injury or damage to pump or property. CAT PUMPS does not assume any liability or responsibility for the operation of a customer's high pressure system.

Read all CAUTIONS and WARNINGS before commencing service or operation of any high pressure system. The CAUTIONS and WARNINGS are included in each service manual and with each Accessory Data sheet. CAUTIONS and WARNINGS can also be viewed online at www.catpumps.com/cautions-warnings or can be requested directly from CAT PUMPS.

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**WARRANTY**

View the Limited Warranty on-line at www.catpumps.com/warranty.