The Model 744-S Fixed Setting Pressure Switch is a piston-operated, factory set, miniature design. It's ideal for use where installation space is limited and in tough environments where oil, fuel, water, dust, vibration, and shock exist.

The Model 744-S has been applied in thousands of applications where its unique design, rugged construction, and high-over pressure capability has proven its long-term reliability. Standard electrical and pressure port configurations are listed below. Please consult factory for custom designs.

### FEATURES
- High Over-pressure Capability
- High-strength Stainless Steel Construction
- Integral Pressure Port Snubbing
- Wide Media Compatibility Range
- High Shock & Vibration Survivability
- Wide Operating Temperature Range
- Custom Configuration
- UL Recognized
- NEMA Type 4 Rating

### APPLICATIONS
- Off Road Equipment
- Industrial OEM Equipment
- Train Braking Systems
- Compactors
- Compressors

### STANDARD SPECIFICATIONS

<table>
<thead>
<tr>
<th>Pressure Connection</th>
<th>Electrical Connection</th>
<th>Seal Materials</th>
<th>Materials</th>
<th>Temperature Range</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;-18 NPT</td>
<td>Snap-action Electrical Switch Listed by UL and CSA</td>
<td>Nitrile (Buna-N)</td>
<td>Hydraulic Module Housing 303 Stainless Steel</td>
<td>-40°F to + 250°F</td>
<td>Approximately 3 oz</td>
</tr>
<tr>
<td>1/8&quot;-27 NPT</td>
<td>Single Pole Single Throw (SPST) or Double Throw (SPDT)</td>
<td>&quot;O&quot;- Ring Fluorocarbon</td>
<td>Electric Module Housing Polyphenylene Sulfide (PPS)</td>
<td>-40°C to + 120°C</td>
<td></td>
</tr>
<tr>
<td>9/16&quot;-18 UNJF-3A</td>
<td>Normally Open (NO). Normally Closed (NC)</td>
<td>Ethylene Propylene</td>
<td>(Temperature Limits Change with &quot;O&quot;- Ring Seal Material Selection)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Options Available</td>
<td>Options Available</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Gold Contact Switches available for dry circuit applications

### OPERATING PRESSURE DATA

<table>
<thead>
<tr>
<th>Series</th>
<th>Range Indicator</th>
<th>Pressure Range</th>
<th>Dead Band*</th>
<th>Max System Pressure</th>
<th>Proof Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>PSIG</td>
<td>BAR</td>
<td>PSIG</td>
<td>BAR</td>
</tr>
<tr>
<td>744 1</td>
<td>8 - 125</td>
<td>0.55</td>
<td>8.62</td>
<td>4 / 14</td>
<td>0.28</td>
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<tr>
<td>744 6</td>
<td>50 - 275</td>
<td>3.45</td>
<td>18.96</td>
<td>10 / 27</td>
<td>0.69</td>
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<tr>
<td>744 2</td>
<td>75 - 500</td>
<td>5.17</td>
<td>34.47</td>
<td>15 / 45</td>
<td>1.03</td>
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<tr>
<td>744 7</td>
<td>130 - 1000</td>
<td>8.96</td>
<td>68.95</td>
<td>20 / 95</td>
<td>1.38</td>
</tr>
<tr>
<td>744 3</td>
<td>300 - 1500</td>
<td>20.68</td>
<td>103.42</td>
<td>45 / 130</td>
<td>3.10</td>
</tr>
<tr>
<td>744 4</td>
<td>1250 - 3000</td>
<td>86.18</td>
<td>206.84</td>
<td>150 / 240</td>
<td>10.34</td>
</tr>
<tr>
<td>744 5</td>
<td>2500 - 8000</td>
<td>172.37</td>
<td>413.68</td>
<td>250 / 425</td>
<td>17.24</td>
</tr>
</tbody>
</table>

*Interpolate for intermediate pressures
**ENVELOPE DIMENSIONS**

**ORDERING PROCEDURE**

**ORDERING SEQUENCE**

**BASIC PRINCIPLES OF DESIGN**

**SERIES**
- 744 - Set pressures between 8 and 6000 PSIG
- See Operating Pressure data table

**PRESSURE CONNECTION**
- 6 - 9/16"-18 UNJF-3A (MS33656-E6)
- 2 - 1/4"-18 NPT (Male)
- Consult factory for metric and additional configurations

**PRESSURE RANGE NUMBER**
- See Operating Pressure data table

**TYPE**
- S - Environmentally Sealed, Fixed Setting Pressure Switch

**ELECTRICAL CONNECTION**
- 03 - SPDT - 3 Terminal Tabs with #8-32 "SEMS" Screws
- 28 - SPDT - Weather Pack Connector with 4" lead wires (socket)
- 33 - SPDT - 3 #18 AWG lead wires 10" long
- 37 - SPDT - Weather Pack connector with 4" lead wires (pin)
- Consult factory for additional electrical configurations

**SET PRESSURE TO BE HELD ON**
- R - Rising Pressure
- F - Falling Pressure

**SET PRESSURE**
- Specify factory set pressure in 4-place PSIG (Example: 0060 for 60 PSIG)

**SEAL MATERIALS**
- T - Nitrile (BUNA-N) - Standard
- V - Fluorocarbon
- E - Ethylene Propylene
- Consult factory for other available materials

**SPECIAL ITEMS**
- Wire, cable, and cable length
- Pressure connection
- Seal materials
- Weather-proof connectors
- Gold electrical contacts for low current applications
- Consult rep or factory for special items and configurations

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**Example: 744.66-S03F-0060T**