The new 8491 Series re-settable flashback arrestors offer 4 safety devices in each unit. Safety features include protection against flashbacks with a wide range of mixtures of oxygen or air with flammable gases including hydrogen, acetylene, methane, and LPG gases. The design includes a built-in non-return (check) valve to stop reverse flow and a thermal shut off which stops gas flow in the event of a hose or pipe line fire. An easily re-settable pressure control stops gas flow in the event of reverse flow or a flashback that creates 10 psig back pressure. This feature alerts the user that a reverse flow or a flashback of greater than 10 psig has occurred. These units are easily re-set by pulling up on the pressure control ring, no disassembly of the gas line or special tools are needed. The 8491 Series high flow capacity makes them suitable for a broad range of applications (see flow table). Units are U/L listed and meet ISO 5175, EN 730, BS 6158, and AS 4603 standards.

<table>
<thead>
<tr>
<th>CATALOG</th>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>18B001-0000</td>
<td>0-6 OXYGEN</td>
</tr>
<tr>
<td>18B002-0000</td>
<td>FG-7 GAS</td>
</tr>
<tr>
<td>18B101-0000</td>
<td>WESTERN FLASHBACK ARRESTOR SET</td>
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</tbody>
</table>

Carlisle Machine Works, Inc.,
P.O. Box 746, 412 S. Wade Blvd., Bldg. #5, Millville, NJ 08332
Phone: (856) 825–0627    Fax: (856) 825–5510
Web Site: www.carlislemachine.com    E-Mail: carlisle@carlislemachine.com
Toll Free In Continental US (800) 922-1167
FEATURES
100% flashback tested after assembly
U/L listed and meets strict international standards

Working Pressure
- Acetylene @15.0 psig
- Hydrogen/oxygen @50.0 psig
- Hydrogen/air @150.0 psig
- LPG @50.0 psig
- Oxygen @143.0 psig

- Automatically re-sets for flashbacks and reverse flow below 10 psig
- Alerts user by shutting off gas flow in the event of a reverse flow or flashback exceeding 10 psig back pressure (captures back pressure in the housing, no flame or gas is exhausted to the atmosphere)
- Stainless steel flame barrier positively extinguishes flame within the housing
- Stainless steel flame barrier positively shut-off of reverse flow over 10 psig
- Thermal cut-off
- Built-in 100 micron stainless steel sintered filter on inlet
- High flow capacity

MATERIALS OF CONSTRUCTION
Body: alloy 360 brass
Internal: brass
Flame Barrier: stainless steel
Elastomers: Neoprene

FLOW PERFORMANCE

<table>
<thead>
<tr>
<th>Inlet Pressure</th>
<th>Air Flow SCFH</th>
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</thead>
<tbody>
<tr>
<td>7.3</td>
<td>231.0</td>
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<tr>
<td>14.5</td>
<td>465.0</td>
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<tr>
<td>21.8</td>
<td>725.0</td>
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<tr>
<td>36.3</td>
<td>1041.0</td>
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<tr>
<td>72.5</td>
<td>1933.0</td>
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</tbody>
</table>

WORKING PRESSURE (U/L)

<table>
<thead>
<tr>
<th>Gas</th>
<th>Pressure PSIG</th>
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</thead>
<tbody>
<tr>
<td>Acetylene</td>
<td>15.0</td>
</tr>
<tr>
<td>Hydrogen/oxygen</td>
<td>50.0</td>
</tr>
<tr>
<td>Hydrogen/air</td>
<td>150.0</td>
</tr>
<tr>
<td>Methane/LPG</td>
<td>50.0</td>
</tr>
<tr>
<td>Oxygen</td>
<td>143.0</td>
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</tbody>
</table>