Agilent Inert Flow Path Solutions
Quick Reference Guide

Agilent’s 7890B Inert Flow Path Split/Splitless option ensures the inertness of flow path surfaces, allowing analytes to safely pass from injector to detector. For best trace level analysis, maintain your Inert Flow Path with Agilent Inert Flow Path components.

Agilent Ultra Inert liners and touchless packaging:
High inertness, productivity, and reproducibility

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (µL)</th>
<th>ID (mm)</th>
<th>1/pk</th>
<th>5/pk</th>
<th>25/pk</th>
<th>100/pk</th>
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</thead>
<tbody>
<tr>
<td><strong>Splitless Inlet Liners</strong></td>
<td></td>
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</tr>
<tr>
<td>Single taper, Ultra Inert Liner</td>
<td>900</td>
<td>4</td>
<td>5190-2292</td>
<td>5190-3168</td>
<td>5190-3166</td>
<td>5190-3170</td>
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<tr>
<td>Single taper, Ultra Inert Liner with glass wool</td>
<td>900</td>
<td>4</td>
<td>5190-2293</td>
<td>5190-3163</td>
<td>5190-3167</td>
<td>5190-3171</td>
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<tr>
<td>Double taper, Ultra Inert liner</td>
<td>800</td>
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<td>5190-3993</td>
<td>5190-4007</td>
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<td>Dimpled</td>
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<td>2</td>
<td>5190-2297</td>
<td>5190-4006</td>
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<td><strong>Split Inlet Liners</strong></td>
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</tr>
<tr>
<td>Straight, Ultra Inert Liner with glass wool</td>
<td>990</td>
<td>4</td>
<td>5190-2294</td>
<td>5190-3164</td>
<td>5190-3168</td>
<td>5190-3172</td>
</tr>
<tr>
<td>Low pressure drop, Ultra Inert Liner with glass wool</td>
<td>870</td>
<td>4</td>
<td>5190-2295</td>
<td>5190-3165</td>
<td>5190-3169</td>
<td>5190-3173</td>
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<tr>
<td><strong>SPME, Headspace Injection</strong></td>
<td></td>
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</tr>
<tr>
<td>Straight Ultra Inert Liner for SPME</td>
<td>35</td>
<td>0.75</td>
<td>5190-4048</td>
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</tr>
<tr>
<td>Straight, Ultra Inert Liner</td>
<td>65</td>
<td>1</td>
<td>5190-4047</td>
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</tr>
</tbody>
</table>

*The 100/pk is not in the Touchless packaging. O-rings must be purchased separately.

Agilent Ultra Inert gold seals and washers:
A smooth, leak-free surface for active analytes

<table>
<thead>
<tr>
<th>Description</th>
<th>1/pk</th>
<th>10/pk</th>
<th>50/pk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultra Inert gold seal and washer</td>
<td>5190-6144</td>
<td>5190-6145</td>
<td>5190-6149</td>
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</tbody>
</table>

Learn more at [www.agilent.com/chem/ultrainert](http://www.agilent.com/chem/ultrainert)
Agilent UltiMetal Plus Flexible Metal ferrules:
No column breakage, no leaks, no activity

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UltiMetal Plus Flexible Metal ferrule with 0.4 mm id</td>
<td>10/pk</td>
<td>G3188-27501</td>
</tr>
<tr>
<td>For fused silica tubing 0.1-0.25 µm id</td>
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</tr>
<tr>
<td>UltiMetal Plus Flexible Metal ferrule with 0.5 mm id</td>
<td>10/pk</td>
<td>G3188-27502</td>
</tr>
<tr>
<td>For fused silica tubing 0.32 µm id</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UltiMetal Plus Flexible Metal ferrule with 0.8 mm id</td>
<td>10/pk</td>
<td>G3188-27503</td>
</tr>
<tr>
<td>For fused silica tubing 0.45-0.53 µm id</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UltiMetal Plus Flexible Metal ferrule with no hole</td>
<td>10/pk</td>
<td>G3188-27504</td>
</tr>
<tr>
<td>To plug Capillary Flow Technology fittings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UltiMetal Plus Flexible Metal ferrule with 0.25 mm id</td>
<td>10/pk</td>
<td>G3188-27506</td>
</tr>
<tr>
<td>Use with 0.25 mm and 0.32 mm UltiMetal column tubing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UltiMetal Plus Flexible Metal ferrule with 0.53 mm id</td>
<td>10/pk</td>
<td>G3188-27507</td>
</tr>
<tr>
<td>Use with 0.53 mm UltiMetal column tubing</td>
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<td></td>
</tr>
</tbody>
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Agilent Inert Flow Path upgrade kit:
The components you need, all in one place

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inert Flow Path Upgrade kit, 7890</td>
<td>G3970A</td>
</tr>
<tr>
<td>Cap Inlet Shield Weldment Assembly, UltiMetal Plus treated</td>
<td>G3452-60570</td>
</tr>
<tr>
<td>Weldment assembly, inert, top, 7890</td>
<td>G3452-60735</td>
</tr>
<tr>
<td>Ultra Inert gold seal and washer</td>
<td>S190-6144</td>
</tr>
<tr>
<td>Ultra Inert single taper splitless liner with glass wool</td>
<td>S190-2283</td>
</tr>
<tr>
<td>UltiMetal Plus Flexible Metal ferrule with 0.4 mm id</td>
<td>G3188-27501</td>
</tr>
</tbody>
</table>

Additional flow path supplies:
Expand the capabilities of your Inert Flow Path

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purged Ultimate Union Assembly, inert</td>
<td>G3196B</td>
</tr>
<tr>
<td>3-way splitter with makeup gas, inert</td>
<td>G3183B</td>
</tr>
<tr>
<td>Ultimate Union Kit, UltiMetal Plus deactivated</td>
<td>G3182-60581</td>
</tr>
<tr>
<td>Compact Deans Switch Manifold Assembly, UltiMetal Plus treated</td>
<td>G2855B</td>
</tr>
<tr>
<td>Compact Splitter with Makeup Gas, inert</td>
<td>G3190B</td>
</tr>
</tbody>
</table>

Four easy ways to create your Inert Flow Path:

1. Request **Option 114** when you purchase the new Agilent 7890B GC system
2. Add an Inert Flow Path Split/Splitless Inlet to your 7890 with accessory p/n G3453B
3. Upgrade a 7890 Split/Splitless Inlet with inert components (p/n G3970A)
4. Purchase individual Inert Flow Path components separately, as needed

Learn more at [www.agilent.com/chem/ultrainert](http://www.agilent.com/chem/ultrainert)
Agilent J&W Ultra Inert GC columns:
Engineered for low bleed, high thermal stability, and excellent inertness

### DB-1ms Ultra Inert

<table>
<thead>
<tr>
<th>ID (mm)</th>
<th>Length (m)</th>
<th>Film (µm)</th>
<th>Temp Limits (°C)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.18</td>
<td>20</td>
<td>0.18</td>
<td>-60 to 325/350</td>
<td>121-0122UI</td>
</tr>
<tr>
<td>0.25</td>
<td>15</td>
<td>0.25</td>
<td>-60 to 325/350</td>
<td>122-0112UI</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>0.25</td>
<td>-60 to 325/350</td>
<td>122-0132UI</td>
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<tr>
<td>0.32</td>
<td>15</td>
<td>0.25</td>
<td>-60 to 325/350</td>
<td>123-0112UI</td>
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<tr>
<td></td>
<td>30</td>
<td>0.25</td>
<td>-60 to 325/350</td>
<td>123-0132UI</td>
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</tbody>
</table>

### HP-1ms Ultra Inert

<table>
<thead>
<tr>
<th>ID (mm)</th>
<th>Length (m)</th>
<th>Film (µm)</th>
<th>Temp Limits (°C)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.18</td>
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<td>-60 to 325/350</td>
<td>19091S-677UI</td>
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<tr>
<td>0.25</td>
<td>15</td>
<td>0.25</td>
<td>-60 to 325/350</td>
<td>19091S-931UI</td>
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<td>19091S-933UI</td>
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<td>0.32</td>
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<td>0.25</td>
<td>-60 to 325/350</td>
<td>19091S-911UI</td>
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<td>-60 to 325/350</td>
<td>19091S-811UI</td>
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### DB-5ms Ultra Inert

<table>
<thead>
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<th>Film (µm)</th>
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<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.18</td>
<td>20</td>
<td>0.18</td>
<td>-60 to 325/350</td>
<td>121-5522UI</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>0.18</td>
<td>-60 to 325/350</td>
<td>121-5523UI</td>
</tr>
<tr>
<td>0.25</td>
<td>15</td>
<td>0.25</td>
<td>-60 to 325/350</td>
<td>122-5512UI</td>
</tr>
<tr>
<td></td>
<td>25</td>
<td>0.25</td>
<td>-60 to 325/350</td>
<td>122-5522UI</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>0.25</td>
<td>-60 to 325/350</td>
<td>122-5532UI</td>
</tr>
<tr>
<td>0.32</td>
<td>15</td>
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<td>-60 to 325/350</td>
<td>123-5512UI</td>
</tr>
<tr>
<td></td>
<td>25</td>
<td>0.25</td>
<td>-60 to 325/350</td>
<td>123-5522UI</td>
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<tr>
<td></td>
<td>30</td>
<td>0.25</td>
<td>-60 to 325/350</td>
<td>123-5532UI</td>
</tr>
<tr>
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<td>-60 to 325/350</td>
<td>122-5552UI</td>
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<td>-60 to 325/350</td>
<td>122-5562UI</td>
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### HP-5ms Ultra Inert

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<thead>
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<th>Film (µm)</th>
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<th>Part No.</th>
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<td>-60 to 325/350</td>
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<tr>
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<td>25</td>
<td>0.52</td>
<td>-60 to 325/350</td>
<td>19091S-811UI</td>
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<tr>
<td></td>
<td>30</td>
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<td>-60 to 325/350</td>
<td>19091S-913UI</td>
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<table>
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</thead>
<tbody>
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<td>50 to 340/360</td>
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</tr>
<tr>
<td>0.25</td>
<td>15</td>
<td>0.25</td>
<td>50 to 340/360</td>
<td>122-0112UI</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>0.25</td>
<td>50 to 340/360</td>
<td>122-0132UI</td>
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### DB-624 Ultra Inert

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<td>0.25</td>
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<td>-20 to 260</td>
<td>122-1334UI</td>
</tr>
<tr>
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<td>1.4</td>
<td>-20 to 260</td>
<td>122-1364UI</td>
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<tr>
<td>0.32</td>
<td>30</td>
<td>1.8</td>
<td>-20 to 260</td>
<td>123-1334UI</td>
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<td>75</td>
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<td>-20 to 260</td>
<td>125-1374UI</td>
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### DB-Select 624 UI for <467>

<table>
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<th>Temp Limits (°C)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.25</td>
<td>30</td>
<td>1.4</td>
<td>40 to 260/260</td>
<td>122-0334UI</td>
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<tr>
<td>0.53</td>
<td>30</td>
<td>1.8</td>
<td>40 to 260/260</td>
<td>125-0334UI</td>
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### DB-UI 8270D

<table>
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<th>ID (mm)</th>
<th>Length (m)</th>
<th>Film (µm)</th>
<th>Temp Limits (°C)</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>0.18</td>
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<td>-60 to 325/350</td>
<td>121-9723</td>
</tr>
<tr>
<td>0.25</td>
<td>30</td>
<td>0.25</td>
<td>-60 to 325/350</td>
<td>122-9732</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>0.25</td>
<td>-60 to 325/350</td>
<td>122-9732</td>
</tr>
</tbody>
</table>

*Only available in the U.S.

Learn more at www.agilent.com/chem/ultrainert