

EZ Twist Top™ Split/Splitless Injection Ports

For Agilent 7890 GCs

cat.# 22175, 22176, 22177, 22178

Before Starting:

1. Turn off the main power to the instrument and unplug the power cord from the receptacle. Allow adequate time for the instrument's heated zones to cool.
2. Turn off the main source of carrier gas to the instrument.

Removing the original Agilent injection port:

1. Consult the instrument manufacturer's handbook.
2. The O-rings on the EPC modules will be reused; do not discard them.

Installing the EZ Twist Top™ injection port:

1. Slide the insulation and the heater block onto the shell weldment and screw the thermal nut onto the weldment (Figure 1).
2. Place the shell weldment into the top of the oven and route the tubing along its original position. Secure the shell weldment with the original screws by first starting each screw and then tightening all screws evenly.
3. Reattach the split vent gas line to the shell weldment and tighten securely (Figure 2).
4. Using the original O-rings, align the EPC blocks on the posts and secure each one with the original screw (Figure 3).
5. Place a Dual Vespel® Ring Inlet Seal in the reducing nut and screw onto the shell weldment.
6. Install an inlet liner into the shell weldment, using a Viton® O-ring. Next, make sure the small Viton® O-rings for the weldment are positioned correctly on the bottom (Figure 4). Place the weldment on the top of the shell weldment and align the weldment pins with the holes in the shell weldment. Thread the weldment onto the shell weldment, then tighten using the Weldment Removal Tool (cat. # 22728) as shown in Figure 5.
7. Place an 11mm septum into the split/splitless weldment and tighten the septum nut.
8. Install the capillary nut and ferrule onto the column and install the column.
9. Turn the carrier gas on and check for leaks, using Restek's Electronic Leak Detector (cat.# 22839). If an electronic leak detector is not available, perform a pressure decay test. If no leaks are present, replace side panels and restore power.

Changing the inlet liner on the EZ Twist Top™ injection port:

1. Slip the Weldment Removal Tool over the weldment and push down on the tool to secure the weldment in the socket. Turn counter clockwise to loosen the weldment, then lift straight up. For speed and efficiency, the weldment stays secured in the Weldment Removal Tool until you are ready to reattach it.
2. Replace the inlet liner and O-ring in the shell weldment. Examine the two small O-rings in the weldment and replace accordingly.
3. Place the weldment onto the top of the shell weldment, align the pins and slots, and tighten the weldment.
4. Leak-check the injection port. If a leak is present, tighten the weldment ¼ turn at a time, leak checking after each ¼ turn.



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5

EZ Twist Top™ Split/Splitless Injection Port for Agilent 7890 GCs

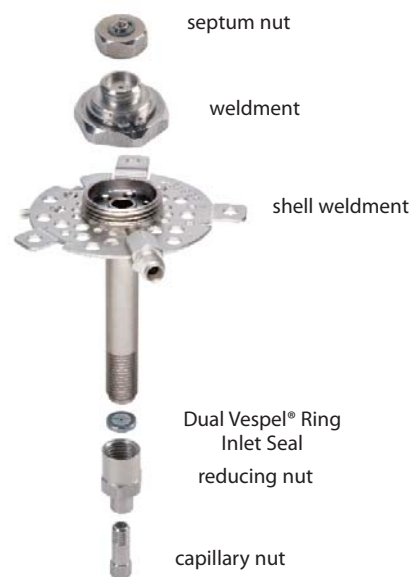
The importance of injection port maintenance has been well documented by instrument and column companies industry wide. Restek has made it easy to carry out this maintenance with the innovation of our EZ Twist Top™ injection port.

- Gas lines are attached to shell weldment bottom instead of the top.
- Gas lines don't interfere with routine maintenance.
- Weldment Removal Tool allows for removal of hot weldment without fingers touching hot surfaces.
- Weldment stays secure in the tool for reattachment.
- Eliminates kinked or broken gas lines.
- Change inlet liners faster, easier, and eliminate touching hot surfaces.
- Available for all Agilent GC models.

SILTEK
Treatment Available
for **Maximum** Inertness

| Description | qty. | cat.# |
|---|-----------------|----------------|
| Injection port assembly kit includes: shell weldment, 2 weldment O-rings, Siltek Dual Vespel Ring inlet seal, septum nut, reducing nut, stainless steel capillary nut and weldment tool | kit | 22177 |
| Siltek injection port assembly kit includes: Siltek shell weldment, 2 weldment O-rings, Siltek Dual Vespel Ring inlet seal, septum nut, reducing nut, stainless steel capillary nut and weldment tool | kit | 22178 |
| Weldment for Agilent 5890/6890/6850/7890 GCs (2 weldment O-rings are installed on the weldment) | ea. | 22724 |
| Siltek Weldment for Agilent 5890/6890/6850/7890 GCs (2 weldment O-rings are installed on the weldment) | ea. | 22732 |
| Shell Weldment for Agilent 7890 GCs | ea. | 22175 |
| Siltek Shell Weldment for Agilent 7890 GCs | ea. | 22176 |
| Weldment O-rings | 10-pk. | 22729 |
| Autosampler & PTV Septum Nut (for 23-gauge needles) | ea. | 20631 |
| Stainless Steel Capillary Column Nut (for use with standard 1/16" ferrules) | 2-pk. | 20883 |
| Reducing Nut | ea. | 22078 |
| Siltek 0.8mm ID Dual Vespel Ring Inlet Seal | 2-pk. 10-pk. | 21242 21243 |
| Weldment Removal Tool for Agilent 5890/6890/6850/7890 GCs | ea. | 22728 |

For an educational video on our EZ Twist Top injection port system, go to www.restek.com.



Weldment Removal Tool



EZ Twist Top™ Shell Weldment for Agilent 7890 GCs

**Call Technical Service at 800-356-1688 or 814-353-1300, ext. 4 (or your Restek representative)
if you have any questions about this product or any other Restek product.**



#203-03 [034]
Rev. date: 12/08

Restek U.S. • 110 Benner Circle • Bellefonte, PA 16823

phone: 814-353-1300 or 800-356-1688 • fax: 814-353-1309 • www.restek.com

Restek France • phone: 33 (0)1 60 78 32 10 • fax: 33 (0)1 60 78 70 90 • e-mail: restek@restekfrance.fr

Restek Ireland • phone: 44 2890 814576 • fax: 44 2890 814576 • e-mail: restekeurope@aol.com

Thames Restek U.K. LTD • phone: 44 1494 563377 • fax: 44 1494 564990 • e-mail: sales@thamesrestek.co.uk

Restek GmbH • phone: +49 (0) 6172 2797 0 • fax: +49 (0) 6172 2797 77 • e-mail: info@restekgmbh.de