

Dual Vespel[®] Ring Inlet Seals

Washerless, leak-tight seals
for Agilent GCs



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Dual Vespel® Ring Inlet Seals

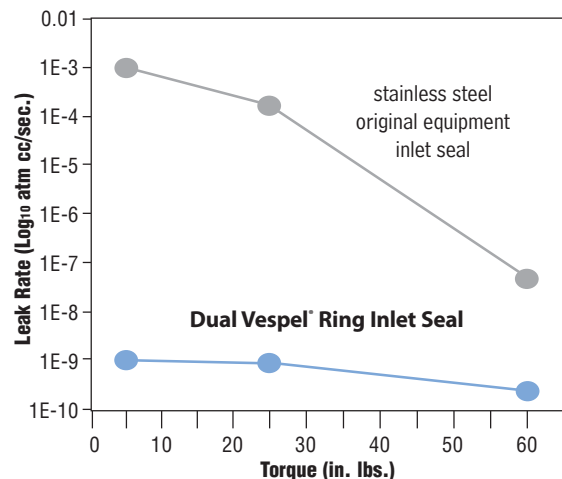
- Vespel® ring embedded in bottom surface eliminates need for a washer.
- Vespel® ring embedded in top surface reduces operator variability by requiring minimal torque to seal.
- Prevents oxygen from permeating the carrier gas, increasing column lifetime.

In Agilent split/splitless injection ports, it can be difficult to make and maintain a good seal with a conventional metal inlet disk. The metal-to-metal seal dictates that you apply considerable torque to the reducing nut, and, based on our testing, this does not ensure a leak-tight seal. Over the course of oven temperature cycling, metal seals are prone to leaks, which ultimately can degrade the capillary column and cause other analytical difficulties.

Our Dual Vespel® Ring Inlet Seal greatly improves injection port performance—it stays sealed, even after repeated temperature cycles, without retightening the reducing nut! This seal, a new version of our popular Vespel® Ring Inlet Seal, features two soft Vespel® rings, one embedded in its top surface and the other embedded in its bottom surface. These rings eliminate the need for a washer, and ensure very little torque is needed to make a leak-tight seal. The rings will not harm the critical seal or the injector body, or any other surface, and are outside the sample flow path. Tests using a high sensitivity helium leak detector show Dual Vespel® Ring Inlet Seals will seal equally effectively at torques from 5 in. lb. to 60 in. lb. (Figure 1).

Figure 1

The Dual Vespel® Ring Inlet Seal achieves leak-tight seals even at low torque, reducing the chance of leak-related problems.



Feature	Benefit
Vespel® ring embedded in bottom surface.	Eliminates need for a washer.
Vespel® ring embedded in top surface.	Very little torque required to make seal—reduces operator variability.
Lower leak rate compared to OEM metal inlet seals.	Less detector noise.
Prevents oxygen from permeating the carrier gas.	Increases column lifetime.



Patent pending.

Dual Vespel® Ring Inlet Seals eliminate the need for a washer!

Why trust a metal-to-metal seal when you can make leak-tight seals quickly and easily—and more reliably—without a washer, with a Restek Dual Vespel® Ring Inlet Seal. Use a stainless steel seal for analyses of unreactive compounds. To reduce breakdown and adsorption of active compounds, use a gold-plated or Siltek™-treated seal. The gold surface offers better inertness than untreated stainless steel; Siltek™ treatment provides inertness similar to that of a fused silica capillary column.

0.8mm ID Dual Vespel® Ring Inlet Seal	2-pk.	10-pk.
Gold-Plated	21240	21241
Siltek™	21242	21243
Stainless Steel	21238	21239
1.2mm ID Dual Vespel® Ring Inlet Seal	2-pk.	10-pk.
Gold-Plated	21246	21247
Siltek™	21248	21249
Stainless Steel	21244	21245



HOT Tech Tip!



For the ultimate in inertness, try Siltek™-treated Dual Vespel® Ring Inlet Seals!

The Siltek™ deactivation process (US patent 6,444,326) produces a highly inert glass-like surface that features high temperature stability, extreme durability, and low bleed. In addition to Siltek™-treated inlet seals, Restek offers inlet liners, guard columns, wool, FID jets, connectors, and more with Siltek™ treatment, for better recovery of sample analytes. Refer to our 2004 *Chromatography Products Guide* (lit. cat.# 59854) or visit our website for more information.

online
ordering
available!

for U.S. customers only

www.restekcorp.com



More Time-Saving Restek Innovations



Injection Port Repair Tool

- Resurfaces critical inlet seal areas.
- For Agilent split/splitless injection ports.

Remove contaminants,
achieve a better seal!

Description	qty.	cat.#
Injection Port Repair Tool	ea.	21393
Replacement Sanding Disks (5 fine & 5 medium)	10-pk.	22689
Replacement Bore Brushes (one 6.5mm & one 7mm)	2-pk.	21353



Rethreading Tool

- Repair worn or damaged threads.
- Multiple uses (fittings, injectors, detectors, etc.)
- Built-in guide to prevent cross-threading.

Make your injection port
threads like new!

Description	qty.	cat.#
Rethreading Tool for 1/16" compression fitting	ea.	23016
Rethreading Tool for 1/8" compression fitting	ea.	23017
Rethreading Tool for 1/4" compression fitting (Agilent split/splitless injection ports)	ea.	23018
Rethreading Tool for 7/16" compression fitting (Varian injection ports)	ea.	23019
Rethreading Tool for 1/4" Varian-style capillary column fittings	ea.	21893

Did you
know?

Restek offers a complete line of injection ports, replacement weldments, and chemical traps. Refer to our *Chromatography Products Guide* or our website for more information.



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