

## Merlin MicroSeal™ Kits for Gas Chromatography

### Complexity Made Simple.

The Merlin MicroSeal is a long-life replacement for traditional rubber disc septa. Two sealing mechanisms work to seal the injection port during sample injection and analysis.

### Extend Lifetime and Reduce Bleed.

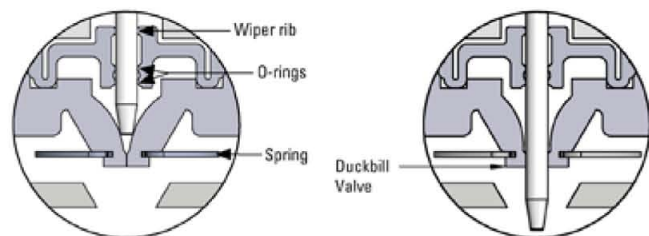
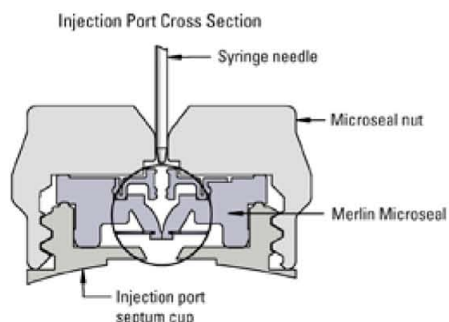
The Merlin MicroSeal is the preferred choice of chromatographers seeking improved performance for both manual and automated injections, including SPME.

#### Benefits:

- Reduces downtime for septum and liner changes.
- Improves reliability and performance during extended automated runs.
- Eliminates septum coring and crumbling.
- Reduces septum bleed peaks.
- Lowers needle insertion force.

#### Features:

- O-rings seal around needle during injection.
- Duckbill valve allows needle to penetrate easily.
- Spring ensures rapid duckbill closure.
- Duckbill valve seals more tightly at higher pressures.
- Wiper rib at entry point reduces particulate contamination.
- 3 versions: General purpose, Low pressure and SPME.



O-rings make sliding seal around needle

Needle forces duckbill valve open

Part Description	Merlin P/N
<b>For Agilent Instruments</b>	
Low Pressure Microseal Kit (nut & 2 #310 Microseals)	304
Low Pressure Microseal Kit (nut & 1 #310 Microseal)	305
General Purpose Microseal Kit (nut & 2 #410 Microseals)	404
General Purpose Microseal Kit (nut & 1 #410 Microseal)	405
Microseal Nut	403
<b>For Shimadzu Instruments</b>	
Microseal Kit for Shimadzu (nut, adapter assembly, & 2 #410 Microseals)	61-12
<b>For Bruker/Varian Instruments</b>	
Microseal Kit for Varian 1079 (nut, adapter, o-ring, & 1 #410 Microseal)	21-11
Microseal Kit for Varian 1177 (nut, adapter, o-ring & 1 #410 Microseal)	22-11
<b>For PerkinElmer Instruments</b>	
Microseal Kit for PerkinElmer (nut, adapter, o-ring & 2 #410 Microseals)	51-12
<b>Replacement Microseals</b>	
Low Pressure Microseal (1 to 45 psi, 7 to 310 kPa)	310
General Purpose Microseal (most applications, 3 to 100 psi, 20 to 690 kPa)	410
Microseal for SPME Applications (3 to 100 psi, 20 to 690 kPa)	21-01



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