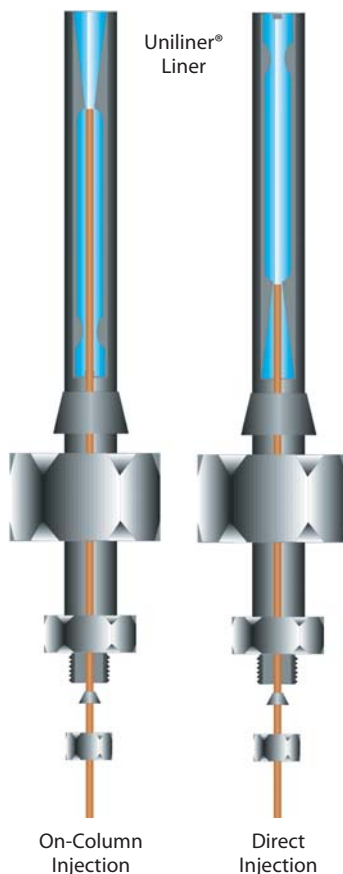




it's a **fact**

5 mm Uniliner® liners fit into the 1/4-inch Uniliner® Liner Adaptor, which fits into a 1/4-inch injection port. The Uniliner® liner can be inserted in one direction for direct injections or inverted for on-column injections. Because the 1/4-inch injection port ferrule seals against the metal liner adaptor surface, it is virtually impossible to crack the glass Uniliner® liner during installation.



**Uniliner® Liner**

for 1/4-Inch Packed Injection Port Conversion

- Reduces solvent tailing.
- Versatile—0.53 mm ID version can be used in the direct (DI) or on-column (OC) injection mode.
- Incorporates a gentle taper that seals the column and reduces dead volume in direct injection mode.
- Available in various designs.

On-column injections can be performed only with 0.53 mm ID columns because 26-gauge needles do not fit into the bore of 0.32 mm ID columns, or into the Uniliner® liner taper.

Description	Column ID Injection Mode*	ea. cat.#/price	5-pk. cat.#/price
<b>Uniliner Liner</b> (small buffer volume chamber 60mm long, for injections ≤2µL)	0.53mm DI or OC	20902	20903
<b>Uniliner Liner</b> (large buffer volume chamber 85mm long, for injections ≤4µL)	0.32 & 0.53mm DI only	20308	20309
	0.53mm DI or OC	20301	20305
<b>Cyclo-Uniliner Liner</b> (for active, dirty samples)	0.32 & 0.53mm DI only	20319	20320
<b>Open-Top Uniliner Liner</b> (packed with wool)	0.32 & 0.53mm DI only	20315	20316
<b>Low Volume/Purge &amp; Trap Uniliner Liner</b> (1mm ID x 5mm OD: use in 1/4" injection ports to troubleshoot purge & trap units)	0.32 & 0.53mm DI only	20307	20314
Includes 1/4-inch nut & graphite ferrule, 1/16-inch nut, and 0.8mm ID graphite ferrule.			
<b>Uniliner Liner Adaptor</b> (required for installing Uniliner liners in 1/4" injection ports)		<b>Stainless Steel</b>	<b>Sittek-Treated</b>
	For injection ports <8cm	20310	22282
	For injection ports 8-15cm	20311	
<b>1/4" Ferrules for Uniliner Liner Adaptor</b>		cat.# 20234 (5-pk.)	

\*DI = direct injection, OC = on-column injection

**Note:** a Uniliner liner must be used with a Uniliner Liner Adaptor (cat.# 20310 or 20311) for 1/4-inch injection ports. Remember to include a liner adaptor when ordering a Uniliner liner, unless you are purchasing replacement Uniliner liners.



also **available**

Looking for other packed column accessories for Agilent GCs? See page 232.