



Restek LC

# Trident LC Column Protection System

Redesigned to be more rugged and easier to use!

- Improved design and durability over multiple installations.
- Installs easily onto column without tools.
- Same chromatographic performance.
- Get the level of protection you want.
- Quick and easy filter replacement.



**RESTEK**

Pure Chromatography

[www.restek.com](http://www.restek.com)

# Trident LC Column Protection System

## Redesigned for Ruggedness and Ease of Use

Unlike “one size fits all” guard systems, the Trident LC column protection system gives you the power to select just the right level of protection for your work. With three levels of protection and a variety of guard cartridges and cap frits, you can select the best combination to match your specific analytical needs. The economical, leak-free design provides a highly versatile combination of convenience, economy, and reliability.

**Protect your analytical column and preserve method chromatography with a Trident LC column protection system.**

Feature	Benefit
Three levels of protection	Versatility to match your needs
Durable metal tip	Rugged construction for longer life
Replaceable PEEK ferrule	Easy installation onto the column without tools
Improved thread design and materials	Ensures multiple installations without galling or binding
Easy-to-remove cap frit filter	Quick and simple to replace
Direct-connect, low-dead-volume design	Minimizes leaks and preserves chromatographic performance

## Get the Right Trident LC Column Protection System in Three Easy Steps

### 1. Choose a level of protection.

#### Level 1: Filter Only

Removes Particulate Matter



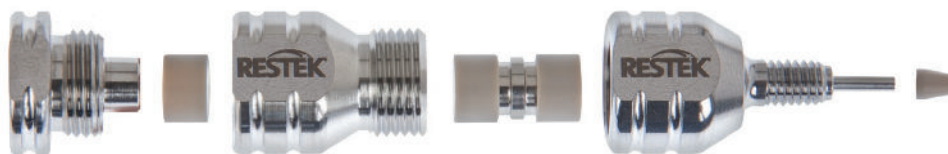
#### Level 2: Guard Cartridge Only

Protects against Irreversibly Adsorbed Compounds



#### Level 3: Filter and Guard Cartridge Power Pack

The Ultimate Protection against Both Particulate and Chemical Contaminants



## 2. If using a Level 2 or Level 3 system, select the proper guard cartridge.

- Choose the correct size guard cartridge. All Trident holders fit both 2.1 mm and 4.0 mm ID guard cartridges.
  - Use 2.1 mm ID guard cartridges with 2.1–3.0 mm ID analytical columns.
  - Use 4.0 mm ID guard cartridges with 3.0–6.0 mm ID analytical columns.
- Choose the cartridge with a bonded phase that is the same or similar to your analytical column.

### *Pair Level 2 or Level 3 Trident holders with a robust Restek guard cartridge!*

#### Trident HPLC Guard Cartridges

Description	3-pk. (10 x 2.1 mm)	3-pk. (10 x 4.0 mm)
<b>Pinnacle DB Guard Cartridges</b>		
Pinnacle DB C18 Guard Cartridge	941450212	941450210
Pinnacle DB C8 Guard Cartridge	941350212	941350210
Pinnacle DB Aqueous C18 Guard Cartridge	941850212	941850210
Pinnacle DB Biphenyl Guard Cartridge	940950212	940950210
Pinnacle DB PFP Propyl Guard Cartridge	941950212	941950210
Pinnacle DB Cyano Guard Cartridge	941650212	941650210
Pinnacle DB Silica Guard Cartridge	941050212	941050210
<b>Ultra Guard Cartridges</b>		
Ultra C18 Guard Cartridge	917450212	917450210
Ultra C8 Guard Cartridge	910350212	910350210
Ultra C4 Guard Cartridge	910250212	910250210
Ultra C1 Guard Cartridge	910150212	910150210
Ultra Aromax Guard Cartridge	912750212	912750210
Ultra Aqueous C18 Guard Cartridge	917850212	917850210
Ultra Biphenyl Guard Cartridge	910950212	910950210
Ultra IBD Guard Cartridge	917550212	917550210
Ultra PFP Propyl Guard Cartridge	917950212	917950210
Ultra Cyano Guard Cartridge	910650212	910650210
Ultra Amino Guard Cartridge	—	910750210
Ultra Silica Guard Cartridge	910050212	910050210
<b>Viva Guard Cartridges</b>		
Viva C18 Guard Cartridge	951450212	951450210
Viva C8 Guard Cartridge	951350212	951350210
Viva C4 Guard Cartridge	951250212	951250210
Viva Biphenyl Guard Cartridge	951650212	951650210
Viva PFP Propyl Guard Cartridge	951950212	951950210
Viva Silica Guard Cartridge	951050212	951050210



Trident HPLC Guard Cartridge

## 3. Attach the Trident protection system to your LC column and analyze samples with confidence!



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Description	qty.	cat.#	qty.	cat.#
Level 1: Filter Holder Only Includes: filter holder; cap frit filter (4 mm, 2.0 µm); and PEEK ferrule	ea.	27470	4-pk.	27471
Level 2: Cartridge Holder Only Includes: cartridge holder and PEEK ferrule	ea.	27472	4-pk.	27473
Level 3: Filter Holder and Cartridge Holder Power Pack Includes: filter holder; cap frit filter (4 mm, 2.0 µm); cartridge holder; and PEEK ferrule	ea.	27474	4-pk.	27475

\* Fittings on all LC columns have 10-32 threads; however, seat depth varies. An improper seat will yield a poor connection and may affect chromatography. While all Restek LC columns will provide a zero-dead-volume connection when used with a properly installed Trident LC column protection system, analysts should consult the manufacturer for non-Restek column connections. A detailed discussion about port configurations can be found at [http://www.restek.com/Pages/faq\\_lc#top](http://www.restek.com/Pages/faq_lc#top)



### Replacement Trident PEEK Ferrules

Description	qty.	cat.#
Replacement Trident PEEK Ferrules	10-pk.	27476

### Replacement Cap Frit Filters for Trident Guard Cartridges

Replacement guard cartridges can cost as much as an analytical column, so why not protect them, too? The removable cap frit filter in a Trident direct helps prevent clogged cartridges to extend the life of your column, your cartridge, and your budget.

- Use 2 mm cap frit filters with 1.0–2.1 mm ID analytical columns.
- Use 4 mm cap frit filters with 3.0–4.6 mm ID analytical columns.

Description	ID	Porosity	qty.	cat.#
Replacement Cap Frit Filters	4 mm	2.0 µm	5-pk.	25022
Replacement Cap Frit Filters	4 mm	0.5 µm	5-pk.	25023
Replacement Cap Frit Filters	2 mm	2.0 µm	5-pk.	25057
Replacement Cap Frit Filters	2 mm	0.5 µm	5-pk.	25990



25990

Order today at [www.restek.com/trident](http://www.restek.com/trident)

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