



What is the Difference Between a Luer Lock and a Luer Slip Connector or Syringe - FAQ

Date: 27-SEPTEMBER-2012 Last Updated: 3-NOVEMBER-2025

When working with syringes and accessories like syringe filters and tubing connectors, it's important to understand the difference between Luer Lock and Luer Slip connectors, as each serves a distinct purpose in laboratory and clinical settings.

Luer Slip Connector

- A Luer Slip connection allows the syringe or device to simply slide onto the tip of another compatible component (e.g., a syringe filter).
- To ensure a snug fit, apply firm forward pressure and give the device a quarter turn during attachment.
- While this connection is generally secure for most applications, it does not lock in place and may disconnect under high pressure or vigorous handling.

Luer Lock Connector

- A Luer Lock connection features a threaded locking mechanism that securely fastens the device to the syringe.
- The “wings” or threads on the syringe filter screw into the syringe’s Luer Lock fitting, creating a fixed, leak-resistant seal.
- This design is ideal for applications involving high back pressure or where a secure, stable connection is critical for safety and performance.

Key Differences at a Glance

Feature	Luer Slip	Luer Lock
Connection Type	Push-on with optional twist	Screw-on with locking parts
Security	Moderate	High
Best For	General use	High-pressure or critical systems
Risk of Disconnection	Possible under pressure	Minimal

[More Information Chrom Syringes](#)