

ERGO-LOCK® LP VDA QUICK CONNECTOR: THE LATEST ADDITION TO COOPER STANDARD'S ROBUST CONNECTION PORTFOLIO ADDRESSING THE EVOLVING NEEDS OF THE AUTOMOTIVE INDUSTRY

To provide automakers reliable and ergonomically friendly components that support custom fluid routing and advance vehicle battery cooling needs, Cooper Standard developed Ergo-Lock® LP, a low-profile, low-insertion and low-pressure drop, VDA quick connector. This is the newest innovation to Cooper Standard's Ergo-Lock® product family and robust connection portfolio. Connectors from the Company's diverse portfolio help improve operator efficiency through reduced insertion force with every secure connection.

In addition to the ergonomic and performance benefits of the Ergo-Lock® family, Ergo-Lock® LP offers additional sustainability benefits and a 15% lower physical profile. This connector was specifically designed to minimize size for increasingly tighter vehicle spacing requirements, especially in battery electric vehicles.

Ergo-Lock® LP, requires 30%+ less insertion force making installation easier for assembly workers (compared to traditional connectors).

This connector also reduces fluid system pressure drop by up to 35% from improvements to the design that further advance vehicle battery cooling and help optimize system flow.

As a part of the Ergo-Lock® family, this innovation features a modular design with four-head rotation positions for routing flexibility. This feature allows for easier adaptation to last-minute design changes, helping reduce the need for tooling changes.

With our commitment to creating sustainable solutions, Ergo-Lock® LP was designed using Nylon 66 (which is made from recycled feedstock) through extensive formulating and testing by our engineers. In addition, the production process eliminates waste and re-purposes raw materials. This connector not only fulfills the evolving demands of electric and hybrid cooling applications but also aligns with the changing market and automaker expectations in sustainability.

Product Features

- 15% smaller height/width versus traditional offerings and 10% smaller versus Ergo-Lock®+
- Reduces system pressure drop to optimize fluid flow
- >30% reduction in insertion force compared to traditional offerings
- Superior flexibility of configuration through adaptable modular design
- Recycled PA66 construction offering sustainability benefits
- Barb design for thermoplastic, rubber and TPV tube connections
- Available sizes ranging from NW6-NW22 for compatible assembly
- Temperature ranges up to 100°C

Ergo-Lock® LP will launch in 2025 on two major European OEM battery electric vehicle platforms. This low-profile offering compliments our cooling connector portfolio which includes Ergo-Lock®+ VDA (DL3 compliant), Ergo-Lock® Mini (ultra-low profile, VDA-like joint system), and Easy-Lock® SAE. The continuous evolution and ingenuity of next-generation solutions like Ergo-Lock® LP play a crucial role in providing automakers substantial benefits to help shape the future of mobility. Visit Cooper Standard's website to learn more: <https://www.cooperstandard.com/ergo-lock-portfolio>.

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