



AeroApp reinvents the valve cap with AEROCap

ASHBURN, Virginia—October 21, 2013— Aerodynamic Applications (AeroApp) today unveiled the first valve cap designed to increase top speed and reduce drag on automobiles, motorcycles and bikes. Built with next generation 3D optimization that allows complex surface design at small scale, this update of the classic valve cap increases wheel presence with an unmistakable aero look on the valve stems, as well as reducing drag up to 40% compared to standard valve caps.

“AeroApp's launch product in wheel aerodynamics brings a new interpretation to the valve cap. “While most vehicle parts have seen functional improvement in the past 100 years, the valve cap has remained relatively untouched,” said Matthew Merzig, AeroApp's President. He added, “Besides the sleek aero look compared to regular valve caps, the benefit of higher top speed and reduced drag create a compelling case to switch.”

The new AEROCap has the latest in small-scale aerodynamic design, tough engineering grade polymers, and unprecedented design integration. Drag reduction works by smoothing airflow around the valve stem and cap. This streamlining also impacts how turbulent air behind the valve stem and cap interacts with a rotating wheel, leading to higher top speed and reduced drag. Maximum drag reduction is usually achieved at vehicle top speed.

At product launch, three variations of AEROCap designs are available: AEROCap Symmetric and AEROCap Mini, which increase top speed, as well as AEROCap Asymmetric, which features a sleek aero look.



The two drag reducing designs, the AEROCap Symmetric and AEROCap Mini, reduce drag up to 40% compared to conventional valve caps, and can increase top speed up to 0.25 MPH at 150 MPH depending on vehicle configuration. The Mini is compact in size (0.95 inches long) and fits the widest variety of wheel styles, while the slightly larger Symmetric (1.60 inches long) delivers the ultimate in low drag.

The AEROCap Asymmetric (1.60 inches long) uses mirror images of the design for the driver and passenger side. The mirror images of the valve cap allow the curved cap to match the wheel curvature on both the driver and passenger side. This also ensures the front of the valve cap is always pointing in the forward direction of wheel rotation on the driver and passenger side. The AEROCap Asymmetric advanced product surfacing blends multiple form motifs into a single thematic curvature.

Customers looking for ultimate performance will soon be able to configure an aerodynamic valve stem sleeve along with the AEROCap. This aerodynamic valve stem sleeve will slide over the existing valve stem, thus changing the basic circular profile into a low drag streamlined shape.

Patents are pending for the AEROCap product line.

Pricing & Availability

The new AEROCap line of valve caps are available today through the AeroApp website (www.aero-app.com). The AEROCap Symmetric low drag cap is available for a retail price of \$12.95 for 2 caps. The AEROCap Mini low drag cap is available for a retail price of \$8.95 for 2 caps. The AEROCap Asymmetric “aero look” cap is available for a retail price of \$12.95 for 2 caps and is available as a driver and passenger side pair. Additional technical specifications and installation guides are available online at www.aero-app.com.

A formal launch date for the valve stem sleeve has not been announced, but is expected first quarter 2014.

Aerodynamic Applications LLC (AeroApp) is a developer of advanced accessories used in transportation systems. AeroApp demonstrates original thinking with solutions that combine both aesthetic and functional experiences. Aerodynamics, vehicle performance and energy management are primary development areas.

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