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Donaldson Introduces Protective Vent for Automotive Battery Packs

*Device helps guard battery packs from surrounding contaminants
while equalizing pressure*

MINNEAPOLIS (July 08, 2019)— Donaldson Company, Inc. (NYSE: DCI), a worldwide manufacturer of venting solutions for automotive systems, now offers the Dual-Stage Battery Vent. This new high-performance battery pack vent helps provide protection from water, dirt, contaminants and automotive fluids, while equalizing pressure of the battery pack—two functions that support the life of batteries and their enclosures.

“Our new Dual-Stage Battery Vent is designed to meet the unique requirements of automotive battery packs: the need to protect the battery pack housing from excess over- or under-pressure under normal conditions, and the need to expel large amounts of gases quickly if a thermal runaway event begins within the battery pack,” said Nathan Malek, general manager of Donaldson Global Venting Solutions.

The first stage of the Dual-Stage Battery Vent equalizes pressure while preventing the ingress of water and contaminants. Second stage venting activates if rapid pressure and heat build-up occur, fully opening the vent and allowing expanding gases to escape, which deters further damage to the remaining battery cells.

The Dual-Stage Battery Vent includes valuable design improvements over current one-way valves. Under certain circumstances, one-way valves might unintentionally open, allowing debris or water to enter, causing sealing issues or harm to the battery pack. The Donaldson streamlined Dual-Stage Battery Vent design avoids the use of a valve, rubber flap or any other mechanical device. Instead, it attaches directly to a housing via a quarter-turn bayonet installation and uses Donaldson’s proprietary Tetratex® ePTFE membrane to help keep debris and water out of the battery pack. In addition to exceptional protection from contaminants and over- or under-pressure, the Donaldson Dual-Stage Battery Vent allows gases and pressure to release during thermal runaway.

The Dual-Stage Battery Vent complements Donaldson’s growing automotive venting product line, which includes Snap-Fit, Screw-Fit, Press-Fit, Tube-Fit and Weld-Fit vents for numerous other vehicle components: from powertrains and headlights to sensors and fluid reservoirs. For additional information about the Donaldson Dual-Stage Battery Vent or other differentiated solutions, visit <https://www.donaldson.com/en-us/venting/technical-articles/protecting-battery-enclosures-dual-stage-venting/> or venting.solutions@donaldson.com.

About Integrated Venting Solutions

The Integrated Venting Solutions (IVS) business unit of Donaldson designs advanced venting to protect enclosures and devices from particles, water, oils, and other liquids while allowing pressure equalization in and around components. IVS serves a wide variety of industries, including medical, electronic and automotive applications.

About Donaldson Company

Founded in 1915, Donaldson Company is a global leader in the filtration industry with sales, manufacturing and distribution locations around the world. Donaldson's innovative filtration technologies are designed to solve complex filtration challenges and enhance customers' equipment performance.

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