

# Battery safety valve body

Learn about the critical role of pressure relief valves in lithium batteries, preventing thermal runaway incidents and ensuring safety and performance.

The lithium battery safety valve comprises a safety valve body and a ventilate rubber sleeve, and is characterized in that threads which are matched with a shell cover are arranged outside the safety valve body, the ventilate rubber sleeve and a dustproof ventilation member are installed inside the safety valve body, a labyrinth-type ...

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The structure of the lithium battery safety valve is not complicated and mainly includes a valve body, spring, valve cover and sealing gasket. Under normal operating conditions, charges are transferred inside the battery through ions in the electrolyte, generating current. Some heat and gas may be generated during this process, but under normal ...

as shown in Figure 1, lithium cell safety valve of the present invention is comprised of upper cover plate 1, cover plate 2, compressing tablet 3, filter disc 4, spool 5, valve body 6, O type circle 7, labyrinth 8, valve seat 9, upper cover plate 1 and cover plate 2 are arranged on the top of explosion-proof valve, filter disc 4 is arranged on valve body 6 by compressing tablet 3, spool ...

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Eaton's single-stage battery vent valve can be precisely and flexibly designed to meet specific opening pressures and optimize venting. The valve's proven resealing technology allows our customers to specify very low opening pressures and 100% functional testing in comparison with conventional burst-valve technology commonly used in the ...

A battery pack thermal runaway situation can occur when individual cells inside the unit fail through physical impact or short circuit. Eaton Battery Vent Valves are designed to enable rapid overpressure release in an electric vehicle battery pack. Battery packs are becoming progressively more powerful and create more heat with stricter ingress protection to increase ...

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New-energy vehicle battery safety vents refer to a safety valve or safety device installed inside the battery pack. It is used to control the pressure and temperature in the battery within a safe range during the charging or discharging process of the battery pack to prevent overcharging and overcharging of the battery. Safety issues ...

A safety valve and lithium battery technology, applied in battery pack parts, circuits, electrical components, etc., can solve the problems of non-reusable, inability to discharge gas in time, and easily damaged safety film, so as to improve production efficiency and reduce after-sales costs. And the effect of manpower and simple structure

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The lithium ion battery safety valve disclosed by the utility model integrates unidirectional gas exhaust, liquid stopping and explosion prevention into a whole, is reasonable and simple in...

Present embodiment is by valve body 8, gas-liquid filtration film 7, rubber cap 6, hydrophobicity waterproof ventilated membrane 3, compressing tablet 5, rubber blanket 4, upper cover plate 2 and cover plate 1 form, described upper cover plate 2 top has safety valve and battery cover to install steam vent, easy and simple to handle, valve body 8 outer face of safety valve is ...

The utility model discloses a pressure-relief safety valve for a lithium battery. The pressure-relief safety valve comprises a safety valve body, an O-shaped ring, a ball, a spring...

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