

Airbag energy storage working principle full set of design scheme diagram

How do you understand the engineering of an airbag?

One should review some basic physics concepts to better understand the engineering of an airbag. According to Newton's first law of motion, every object in a state of uniform motion tends to remain in that state of motion unless an external force is applied to it.

How do airbag modules work?

Working as a supplemental restraint system to the vehicle's seat-belt systems, airbag module deployments are triggered through a pyrotechnic process that is designed to be used once.

How a compressed air flexible bag works?

The energy storage of the underwater compressed air flexible bag can solve this problem perfectly. In the process of releasing compressed air, the flexible bag will output compressed air to the turbine in the approximate isobaric process under the action of water pressure, which can ensure the stability of the air pressure.

How does an underwater compressed air flexible bag energy storage system work?

Once the stored compressed air is needed, the underwater compressed air flexible bag energy storage device will deliver the low-temperature and high-pressure compressed gas to the power generation system on the barge, and the low-temperature and high-pressure compressed air will enter the heat exchanger that stores heat.

How does a pyrotechnical airbag work?

As a result, about 3/4 of the air is to be entrained into an airbag from the vehicle compartment. The process is initiated by a supersonic pulse jet (1/3 air volume) generated pyrotechnically. Then the Prandtl-Meyer problem formulation enables guiding linear and angular dimensions of the essential parts of the device.

Is there any information about the design of the airbag?

However, no information about the design of the actual airbag has been found in the literature.



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