

How airbag works step by step?

The bag is triggered by a heavy weight (blue) restrained by a spring (yellow) inside the red cylinder on the right. After an impact, the weight pushes the spring to the right, opening a valve inside a pipe (turquoise) that allows compressed air to flow out from a cylinder (green) and inflate the airbag cushion.

How do airbags deploy so quickly?

They deploy quickly thanks to a special electronic chip that detects when the car has come to a sudden stop. The chip triggers an explosive which fills the airbag with gas, causing it to inflate in a fraction of a second.

Which gas is filled in airbag?

Sodium azide is best known as the chemical found in [automobile airbags](#). An electrical charge triggered by automobile impact causes sodium azide to explode and convert to nitrogen gas inside the airbag. Sodium azide is used as a chemical preservative in