New Generation Sport Bottles

The New Generation Sport Bottles (Bidons) hold the patented **S**elf **R**egulating **S**pout (**SRS**)

How does the SRS work?

The **SRS** consists of a spout, a valve housing with a valve that closes off the inside of the bottle or cup from the outside. The valve is held in place by a blade-spring, that pulls the valve close, when the bottle or cup is not in use. Above the valve there is a membrane moving up and down, when there is a pressure difference over the membrane.

When someone sucks on the spout a vacuum is created under the membrane, while the atmospheric pressure remains on the upper site, by a venting hole in the spout. The pressure difference over the membrane thus created, moves the membrane downwards, thereby pushing the valve open.

Access to the fluid is now established and the fluid flows to the mouth. By using an internal straw, the bottle or cup can be sucked empty in the upright position.

As soon as the suction stops, the membrane moves back to its original position and the spring closes the valve. When carbonized drinks are used, the carbon dioxide cannot leave the bottle or cup and therefore the fluid will not go flat.

Advantages of the Sport Bottle with SRS system:

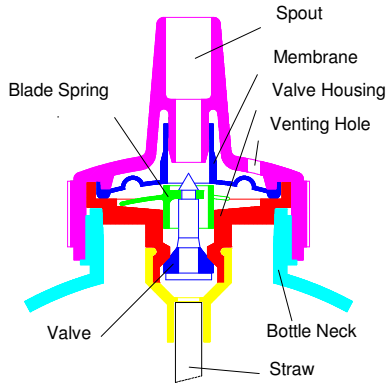
Relative to other drinking solutions on the market, the **Sport Bottle** equipped with the **SRS** offers the following advantages:

- There is no need to open the bottle for drinking (Easy access)
- The bottle will not leak when overthrown
- Carbonized drinks will not go flat
- The **Sport Bottle** can be used for hot and cold drinks
- No spilling of fluid when drinking, while in motion
- The bottle can be sucked empty in the upright position.

The present **Sport Bottle** has the following additional features:

- The Sport Bottle has a clip for hanging on your waist belt
- A shoulder strap can be connected to the belt clip
- A dust cap is provided to keep the spout clean
- The Sport Bottle fits in a cup holder of cars
- The Sport Bottle is made of a durable materials
- The Sport Bottle can be cleaned easily

In other words the **Sport Bottle** with **SRS** is applicable to all situations, whereby a beverage is used for consumption without leaking and spilling.



SRS

Patent situation:

The **Sport Bottle** with **SRS** is a new development of Enpros International B.V. and has been worldwide patented under Wipo patent number WO 01/92133 A2, US patent 7,350,666 B2 and others.

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