



**New Closure
Means
for
Disposable
bottles**

Carbonized and Still Drinks

No Spilling



**Self Regulating Spout
(SRS)**

Advantages of the SRS system:

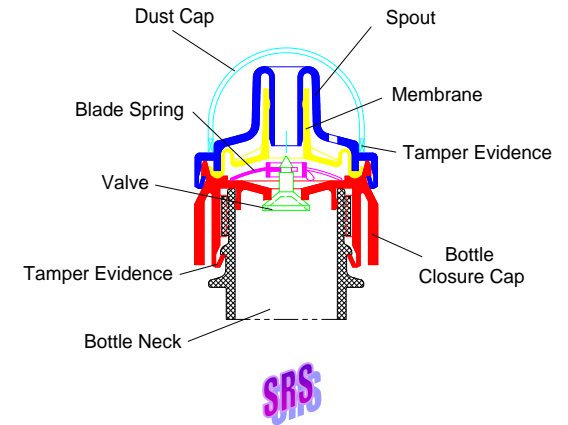
Relative to other drinking solutions on the market, the SRS offer the following advantages:

- There is no need to open the bottle or cup (Easy access)
- The bottle will not leak when overturned
- The SRS can be used for carbonized and still drinks
- Carbonized drinks will not go flat
- No spilling of fluid when drinking, while in motion
- The bottle, with an internal straw, can be sucked empty in the upright position.

The SRS is applicable to bottles, cups or cans as:

- Disposable bottles, in the Soft drink industry
- The non-disposable bottles (Bidons) used with sport activities
- Children and elderly care (Non-spilling Cup)

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



The SRS works as follows:

The Self Regulating Spout (SRS) consists of a suction piece (spout), a valve housing with a valve that closes off the inside of the bottle from the outside. The valve is held in place by a (blade)-spring, which pulls the valve close, when the bottle is not in use. A membrane above the valve moves 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 and therefore the fluid will not go flat.

Ordering information:

The **SRS** concept has been worldwide patented through Enpros International BV; (A product development company in The Netherlands).

Producers of closure means and Soft drink suppliers are invited to use the **SRS** concept. Licensing agreements can be obtained for using the **SRS** concept in the various applications.

Additional information of the **SRS** used in other applications, such as: **Non-spilling Cup/ Bidons/ Baby Cups**, can be ordered from Enpros International BV or its agent in the various countries:

General information:

For more information on the **SRS**; see our internet site: www.enpros.nl, or write or fax to:

ENPROS International BV

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2910 AB Nieuwerkerk a/d IJssel
The Netherlands

Tel.: +31-(0)180-390138

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**The Ultimate non-spilling
Sport Cap**

**for
Carbonized and Still
Soft Drinks**

No spilling 