





## Air escapes at an overpressure of >350 mbar

## **Description of function**

EN 764 breather valve caps with double valve are normally used when the fluid container is under pressure, yet air has to flow in from the outside in case of underpressure (decreasing fluid level).

This is achieved by combining two valves (check / bypass valve). The inlet valve allows air to enter at an underpressure of 30 mbar or higher. The second valve only opens at an overpressure of > 350 mbar.

The air filter prevents contamination of the fluid from outside (dust). It is made of PU foam with a grade of filtration of 40  $\mu$ m.

The overpressure inside the container ensures that the air volume, which is flowing in or escaping due to the fluctuating fluid level, is kept to a minimum. This reduces filter fouling and substantially increases the service life, especially in dusty environments.

In addition, a pressurized container has a positive effect on the function of the pump and prevents the formation of foam.

The valve seal ensures that no fluid will leak, especially if the fluid is strongly moved or during transport.



Air flow rate [l/min] as a function of the pressure difference  $\Delta p$  [mbar] container / outside space (type F with filter).

Δ p [ mbar ] 700 600 500 400 300 200 100 200 300 400 500 600 700 800 Q [ l/min ]

Pressure gradient  $\Delta p$  [mbar] in the container as a function of the air flow rate [l/min] at a valve opening pressure of 350 mbar (type FD with filter and double valve).

3.3 3

3.4

3.7

0 0 0

3.9

3.10

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