

Description of function

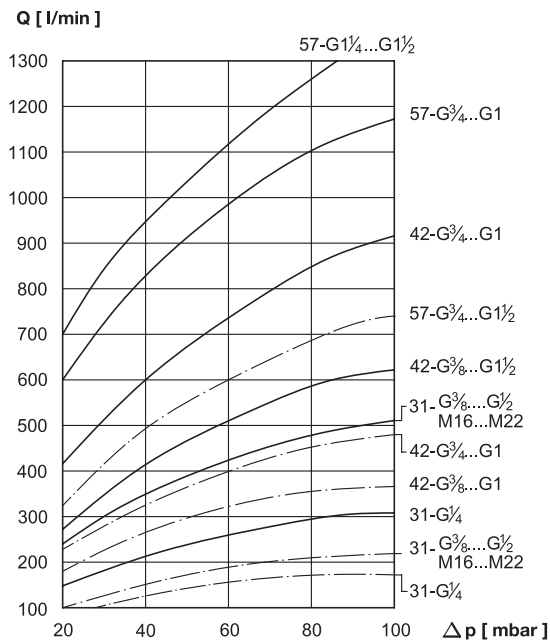
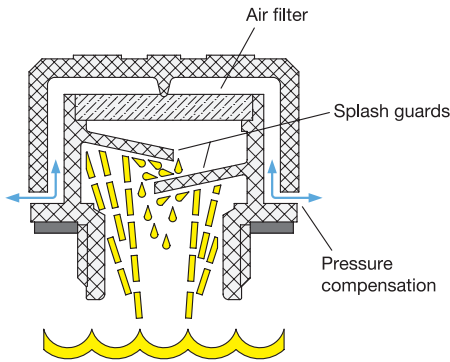
EN 552 breather caps are used in fluid containers that must be vented.

If the fluid is moving, e.g. with a running gear in a fluid bath, there is a risk of fluid leakage. With properly arranged splash guards (see graph), these breather caps prevent fluid from leaking without substantially impairing the venting process (pressure compensation).

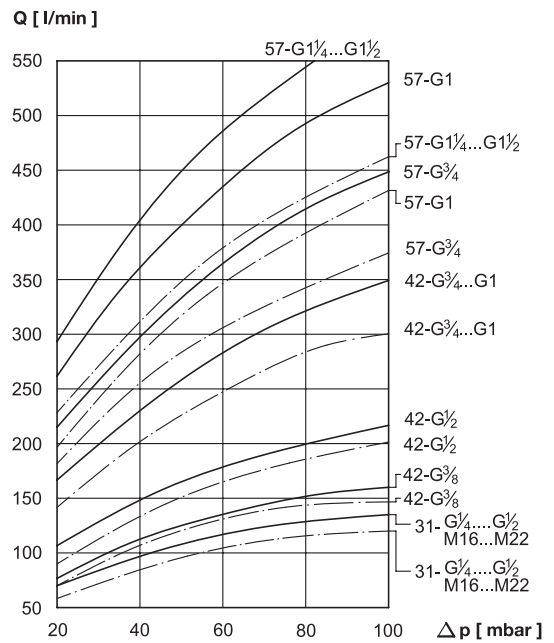
The splash guards can be left out if their function is not required or if a higher air flow rate is desired (Identification no. 3 and 4).

A filter is used to protect the fluid from external contamination (dust). The filter is located behind the splash guards to prevent it from making contact with the fluid and being saturated by capillary effect.

For a very high air flow rate (the fluid level of the container is changing quickly), EN 663 breather caps should be used.



Air flow rate [l/min] as a function of pressure difference Δp [mbar] container / outside space
 With filter (40 μm): — - —
 Without filter: — — —
 Version **without** splash guards (Identification no. 3 and 4)



Air flow rate [l/min] as a function of pressure difference Δp [mbar] container / outside space
 With filter (40 μm): — - —
 Without filter: — — —
 Version **with** splash guards (Identification no. 0, 1, and 2)