



## Leakage Test TPP Filter and VENT Screw Cap

### Filter Screw Cap:

For continuous sterile gas exchange, tightly close the filter screw cap with integrated 0,22 µm hydrophobic PTFE filter membrane (Figure 1). For optimal gas exchange, avoid liquid contact with the PTFE membrane.

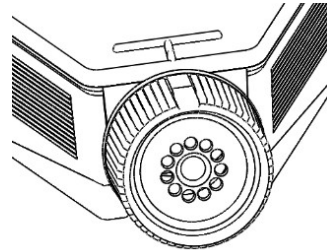
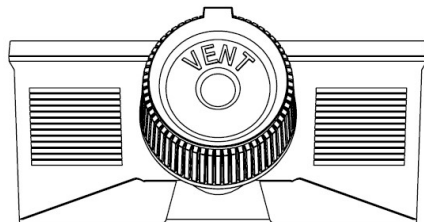


Figure 1

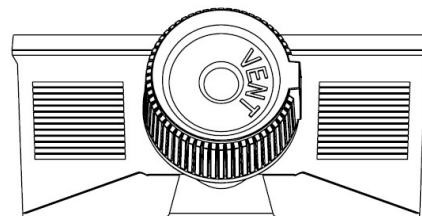
### VENT Screw Cap:

- For gas exchange, rotate the VENT cap to the 12 o'clock VENT position. You will hear/feel a click.
- To stop gas exchange, rotate the cap 1/4 turn clockwise beyond the VENT position. The flask is now tightly sealed and there is no gas exchange.
- When incubating cells, place the rectangle in the 12 o'clock position.
- For transfer of the flask within the laboratory (laminar flow/incubator), TPP recommends tightly closing the VENT screw cap.



Position 1

- Visual check:  
Rectangle at 12 o'clock (Position 1)
- Gas exchange



Position 2

- Visual check:  
Rectangle at 3 o'clock (Position 2)
- Gas tight position, no gas exchange

### Technical Data:

#### Materials

Flask	PS
Screw cap	PE
Membrane	PTFE, pore size 0.22 µm





### Additional:

Instructions for use, chemical resistance lists, and quality certificates for each product are available for download from [www.tpp.ch](http://www.tpp.ch).







## Test Procedures

### 1. Vacuum 0.6 mbar, 30 min



Filter Screw Cap	VENT Screw Cap
	
	
No media leakage through the filter	No media leakage through closed cap

### 2. Incubator 37 °C, 12 h

Filter Screw Cap	VENT Screw Cap
	
	
No leakage of medium through the filter	No leakage of medium through closed cap



### 3. Positive Pressure in Water Bath 0.5 bar

Filter Screw Cap	VENT Screw Cap
	<p style="text-align: center;">void</p>
	<p style="text-align: center;">void</p>
<p>Air bubbles present due to the internal pressure in the flask        → No media leakage through the filter</p>	<p>Test is not possible due to the risk of a burst</p>