Vortex Gas & Liquid Sampler
High pressure and rugged sampling tool

The vortex gas & liquid sampling tool is designed to capture and store gas or liquids escaping underwater for the purpose of recovery to the surface for analysis. The tool is designed to be deployed from the surface with zero pressure in the containment bottles. Sample filling relies on pressure differential between the isolated sea level pressure inside the bottles and the surrounding ambient sea water pressure.

All the components are housed in one anti-impact stainless steel housing, allowing this tool to be rough handled and transited in work baskets.

Personnel do not have to be directly exposed to pressurised components during recovery. Very high burst pressure bottles allow higher containment pressure in smaller bottles to reduce foot print of tool.

The tool features primary and secondary product isolation valves - plus a back up non return valve to further prevent product escaping after sample has been taken.

Applications
Capture, contain and recover liquid
Capture, contain and recover gas

Features
Robust stainless steel housing
Small high pressure bottles
4000m / 13,123ft depth rated
Can be deployed in work basket
ROV or diver operable
Primary & secondary product isolation valves
Bleed off valve

In the box
Gas & liquid sampler
Rated sample bottles
Operations and maintenance manual
# Vortex Gas & Liquid Sampler

## Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Containment bottle volume</td>
<td>1.8 litre / 0.475 gallon</td>
</tr>
<tr>
<td>Potential gas sample volume</td>
<td>5.1 cubic ft (146 litre) when stored at 69bar / 1200psi</td>
</tr>
<tr>
<td>Potential liquid sample volume</td>
<td>1.8 litre / 0.475gal</td>
</tr>
<tr>
<td>Main relief valve setting</td>
<td>124bar / 1800psi</td>
</tr>
<tr>
<td>Main relief valve working range</td>
<td>0-207bar / 0-3000psi</td>
</tr>
<tr>
<td>Main isolation valve</td>
<td>Rated to 500bar / 7250psi</td>
</tr>
<tr>
<td>Secondary isolation valve</td>
<td>Rated to 207bar / 3000psi</td>
</tr>
<tr>
<td>Sample bleed off valve</td>
<td>Rated to 207bar / 3000psi</td>
</tr>
<tr>
<td>Pressure gauge</td>
<td>-200 to 2000psi</td>
</tr>
<tr>
<td>Depth rating</td>
<td>4000m / 13,123ft</td>
</tr>
<tr>
<td>Internal volume</td>
<td>445ml / 0.11gal min (each bottle)</td>
</tr>
<tr>
<td>Burst(min)</td>
<td>599bar / 8700psi</td>
</tr>
<tr>
<td>Puncture force</td>
<td>260 Nf max *1</td>
</tr>
<tr>
<td>Working pressure</td>
<td>Design test pressure of 299bar / 4350psi marked service pressure 239bar / 3480psi</td>
</tr>
<tr>
<td>Dimensions of complete tool</td>
<td>890 x 180mm diameter / 35in x 7in diameter</td>
</tr>
<tr>
<td>Funnel diameter</td>
<td>150mm / 6in</td>
</tr>
<tr>
<td>Weight in air</td>
<td>22kg / 48.5lbs</td>
</tr>
<tr>
<td>Weight in water</td>
<td>16kg / 35lbs</td>
</tr>
</tbody>
</table>

*Specifications subject to change without notice. Specific interface and performance information should be confirmed at time of order placement.*