



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



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

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