

# Composite Air-Oil Accumulator

## Increased performance – reduced maintenance

A new generation of light weight, cost-competitive composite air-oil accumulator vessels (CAAV) are now offered. Its noncorrosive properties coupled with our new SmartTank system ensures reduced life cycle cost and increased safety.

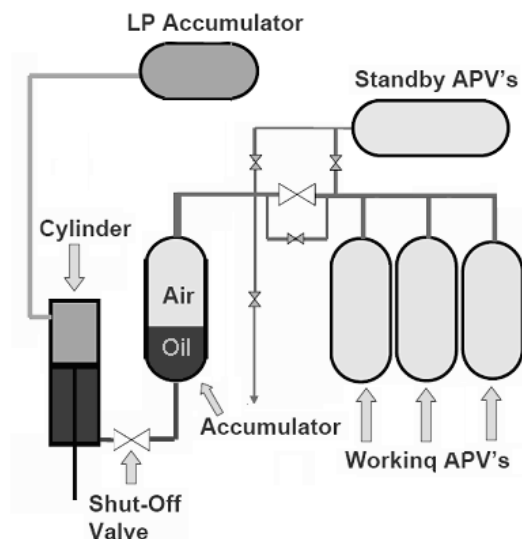
### Introduction

Umoe Advanced Composites AS is offering the new generation composite air-oil accumulator vessels (CAAV) for operational use in for example a direct action riser tensioning system. The CAAV is designed according to DNV-OS-C501, assuming no inspection during the service life of 25 years. The only requirement for inspection/re-evaluation is based upon overloads, accidents or other events, exceeding the design limits.

Composite Accumulator vessels offer a 40% weight reduction compared to equivalent steel vessels. They are also safer than steel as they have a higher burst pressure capacity and are designed according to the "leak before burst" principle.

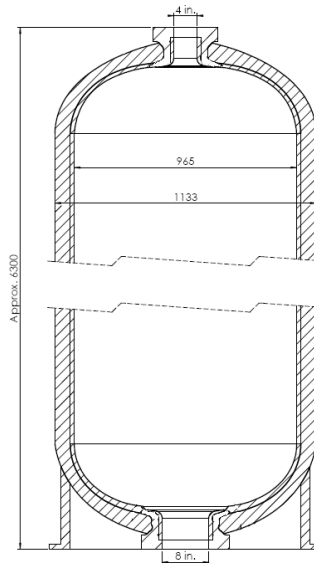
Maintenance costs are reduced as composites do not corrode, resulting in lower life cycle cost compared to equivalent steel vessels. Further life cycle cost reductions are obtained through full integration with our new SmartTank system, an integrated lifetime monitoring system, ensuring full life utilization and even extending its 25 year service life.

### System Overview





## Vessel Specification



### Design Data

Area classification	SAFE
Design code / standard	DNV-OS-C501
Environment	Harsh offshore environment
Temperature range	- 40°C to +70°C
Volume range	1000 to 4000 litre
DNV type approval	Pending
Working pressure	207bar
Design Pressure	210bar
Burst Pressure	>630bar
Internal Diameter	610 & 965mm
Outer diameter	715 or 1133mm
Bare bottle weight	1450-2950 kg
Pressure medium	Air/Nitrogen and water-glycol based hydraulic fluids
Cleanness	NAS class 8
Connection:	SAE J 518 Code 61, type 1 (other interfaces on request)
Connection size:	Inlet 2-6", Outlet 6-8",

### Further Information

You can obtain further information (data sheets, instructions etc.) via our internet address [www.uac.no](http://www.uac.no)

Specifications and dimensions given in this leaflet represents the state of engineering at the time of printing. Modification may take place and materials specified may be replaced without prior notice.

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