



COMPOSITE OVERWRAPPED

PRESSURE VESSELS

- ✓ Type III and Type IV vessels
- ✓ Made from scratch in-house
- ✓ Custom designed and manufactured
- ✓ Supporting Green Energy



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THE LEADING SUPPLIER OF CERTIFIED COMPOSITE OVERWRAPPED PRESSURE VESSELS



THE DIFFERENCE

CST Optimum's unique difference is our in-house capabilities including:



Design and build winding machinery



Develop machinery software



Automated production line



State of the art resin lab



Material selection & formulation



Polar Boss component manufacture design



Mould making



Tool making



Finishing



Testing



Certification

Manufacturing and providing *safe, lightweight, cost-effective pressure vessels* to enable the uptake of **green hydrogen**.

APPLICATION

We develop certified, custom designed and manufactured pressure vessels to meet your desired specifications and application. Uses include medical, firefighting, SCBA and life support, and the storage of alternative fuels, hydrogen, compressed natural gas, and other gases.

SPECIFICATIONS AND CERTIFICATIONS



Capitalizing on our 25 years' experience in carbon filament winding and pressure vessel design, fabrication and certification, we offer services to manufacture custom composite overwrapped pressure vessels (COPVs) to our customers' specifications.

HYDROGEN COPV'S: TYPE III & TYPE IV



All hydrogen COPVs have:

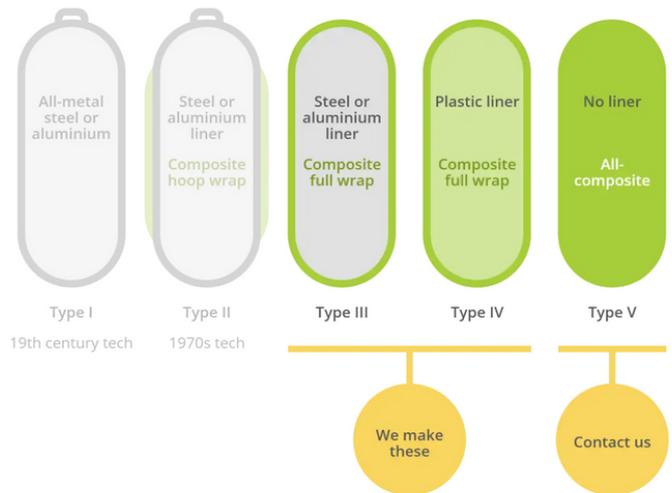
- Service pressure: 350 bar
- Mount type: strap or neck
- Port: double
- Certification: HGV2, DOT, ISO11119-3

CNG COPV'S: TYPE III & TYPE IV



All CNG COPVs have:

- Service pressure: 250 bar
- Mount type: strap or neck
- Port: double
- Certification: N6V2 - 2023



TESTING AND CERTIFICATION

Safety is very important to CST Optimum and our customers. Our COPVs are subjected to comprehensive testing during the design and manufacturing stages, including:

- ✓ Materials Testing
- ✓ Auto frettage
- ✓ Cycle testing
- ✓ Inspections
- ✓ Hydro Testing
- ✓ Hydrostatic burst testing

We currently test products at our Utah facility and our product certification is endorsed by the US department of Transport.



CST Optimum enables the rapid uptake of green hydrogen in Australia, the USA, and globally, by providing safe, light, cost-effective, pressure vessels.

Using green hydrogen as a fuel reduces carbon emissions from key industries such as transportation, and those that cannot be easily electrified, including steel and cement production and aerospace.



OPTIMUM

CSTCOMPOSITES

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