HYDROGEN GAS STORAGE
700 BAR

SUPERIOR STORAGE
Improved fast-fill and negligible permeation

INTEGRATED VALVES
Large port openings and steel threaded connections for integrated valves and regulators

LOW PERMEATION
Metallic liner provides near zero permeation

SAFETY FIRST
Steelhead Composites offers lightweight composite-overwrapped pressure vessels for high pressure hydrogen storage. These cylinders feature large port openings with hydrogen-ready stainless steel threaded connections to house in-tank valve and regulator. These vessels are capable of storing hydrogen at either 35 up to 70 MPa, and have been designed from the ground up to meet performance based regulatory standards like R134a that ensure reliable vessel performance over the long haul. Standard sizes are from 35 to 100 Liters with an OD of 350 mm.

**SPECIFICATIONS**

- Weight optimized Type 3 Pressure Vessel
- Maximum Operating Pressure: 700 Bar
- Minimum Burst Pressure: 1575 Bar
- Port Opening: up to 51 mm in diameter
- Safety: Benign leak-before-burst avoids catastrophic failure
- Liner: Seamless, impermeable 6061-T6 Aluminum
- Structural Shell: Carbon fiber and epoxy composite
- Protective Barrier: Glass fiber and epoxy composite
- High thermal conductivity and specific heat of Aluminum liner achieves a better fill capacity under fast-fill conditions

<table>
<thead>
<tr>
<th>NOMINAL VOLUME L*</th>
<th>OPERATING PRESSURE BAR**</th>
<th>DIMENSION A MM</th>
<th>DIMENSION B MM</th>
<th>WEIGHT (KGS)</th>
<th>KGS OF H2</th>
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*Custom volumes available upon request.
**Additional pressures available upon request.