

STEELHEAD COMPOSITES

350 BAR HYDROGEN

We offer composite-overwrapped pressure vessels for high pressure hydrogen storage. Steelhead's liners are made of robust, seamless aluminum completely overwrapped with durable epoxy impregnated carbon fiber composite. These cylinders feature large port openings with hydrogen-ready, stainless steel threaded connections that can house an in-tank valve and regulator. With virtually zero permeation of H₂ gas, enhanced durability, predictable leak-before-burst failure characteristics and improved fast-fill capabilities compared to plastic lined vessels.



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Overview

Steelhead hydrogen pressure vessels are a cost-efficient solution for gaseous storage for hydrogen fuel cell systems. We offer full service design, manufacturing and in-house testing capabilities to meet your exact design and certification requirements. Steelhead offers a range of standard sizes to best meet your design criteria.

Custom sizes are available upon request.

- The patented “Steelhead” on our products enables robust large port fittings including industry standard fittings, in-tank regulators and variable port sizes and materials.
- Sophisticated modeling, design tools and know-how.
- Fully digital shop floor : work instructions, quality system and paperless travelers all allow for easy duplication and expansion.

Company Data

DUNS: 078762693

NAICS: 332420

Quality System: AS9100 Rev D, ISO 9001-2015

Certifications: CE, DOT, DNV GL, ABS, EC-79

Patents:

- Integrating materials for thermal compensation
- Telematics enabled vessels
- Composite piston accumulator with serviceable piston
- Diaphragm accumulator design
- ‘Steelhead’ polar boss

350 Bar Hydrogen Vessel Size Range

350 BAR		MINIMUM SIZE				MAXIMUM SIZE					
	Outside Diameter (mm)		H2 Storage (kg)	Vessel Mass (kg)	Volume (L)		Length (mm)	H2 Storage (kg)	Vessel Mass (kg)	Volume (L)	
	125		450	0.1	3	4		2,500	0.5	14	22
	165		450	0.1	4	5		2,500	0.9	22	40
	280		760	0.6	17	28		2,600	2.9	58	125
	330		850	0.9	23	40		2,600	3.8	75	165
	425		880	1.8	49	80		2,600	6.2	132	270

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