

iCPV: infinite Composite Pressure Vessel for high-pressure gas storage



The infinite Composite Pressure Vessel (iCPV) utilizes an all-composite, liner-less design and can be customized with a variety of metallic interfaces. Strap mounting configuration is standard, other configurations upon request.

Product Description:

linerless composite pressure vessel for storing 4,500 PSI CNG, CH4, GN2, H2O, GH2

Part #:	CFZ001018
Dimensions:	(in/mm)
Length:	60/1524
Diameter:	23.1/586.74

ISO 9001 & AS9100 REGISTERED

Tank Specifications	Imperial	Metric	Qualification Tests
Operating Pressure:	4,500 psig	310 bar	Hydro Burst
Proof :	6,750 psig	465 bar	Hydro Cycles
Min Burst :	10,125 psig	698 bar	95% CNG Bonfire
Actual Burst :	14,400 psig	992.8 bar	25% CNG Bonfire
Volume:	20,430 in.^3.	.327 m^3	
Tank Weight:	180 lb.	82 kg	
Materials and Interfaces			Acceptance Tests
Shell:	Composite Engineering Laminate		Preliminary Inspection
Resin:	Alpha x Omega		Volume
Fiber:	Toho Tenax-UTS50- 2400		Capacity
Fwd Interface:	2-12 UN 6061 AL		Weight Measurement
Aft Interface:	2-12 UN 6061 AL		Hydro Proof

