

Pressure Vessels

high-performance lightweight composite vessels



General Dynamics Armament and Technical Products designs and manufactures a broad array of high-performance lightweight composite pressure vessels for aircraft, space and missile platforms.

GDATP's pressure vessels combine a permeation barrier (liner) with a filament-wound outer shell. The liners are made from a wide variety of materials depending on customer requirements in order to optimize the design while maintaining cost objectives. GDATP's experience includes the design and manufacture of liners made from aluminum, corrosion-resistant steel (CRES), Inconel®, titanium and thermoplastic.

GDATP's pressure vessels range in size and shape to suit a wide variety of customer needs. Cylindrical and spherical configurations can be provided up to 50 feet in length and 102 inches in diameter.

GDATP has extensive experience in the design, development, qualification and integration of composite pressure vessels in a variety of pneumatic subsystems. Applications include military and commercial aircraft flotation and emergency power, missile control, and launch vehicle and satellite propulsion subsystems.

GENERAL DYNAMICS

Armament and Technical Products

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