

VENDOR CATALOG / HOUSTON POLYTANK

Houston PolyTank Catalog

DVS 2205 extrusion-wound HDLPE and polypropylene tanks.
German engineering, American manufacturing, monolithic
integrity — engineered for zero specification failure.

DESIGN STANDARD

DVS 2205 Extrusion-Wound Construction

Monolithic, solid wall structure with a ductile (detectable-leak) failure mode — not the layered laminate of FRP or the stressed-skin of roto-molded tanks.



HDLPE and Polypropylene, up to 6.0" wall thickness

Capacity range: 50-50,000 gallons · HDLPE: -40°F to 120°F, pH 0-14 · PP: up to 180-200°F

Sulfuric Acid

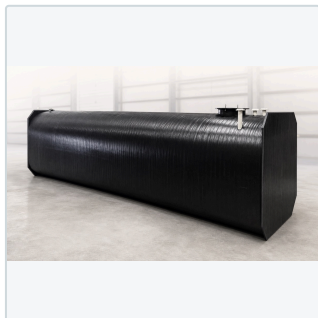
Hydrochloric Acid

Caustics

Programmable wall thickness (3.5-6.0" at bottom, tapering to ~1.0" at top) eliminates the "elephant foot" bulging that occurs in high-specific-gravity fluids under hydrostatic load.

PATENTED GEOMETRY

Rectangular Tank Design (US Patent 10,150,264)



Standard 40' High-Cube Container Fit

Fits standard 40' high-cube shipping containers, eliminating wide-load permits and reducing freight costs by more than 80%. The rectangular design increases storage capacity 20–30% versus cylindrical tanks in the same footprint. Internal and external extrusion-wound ribbing eliminates the need for external steel support cages.

STRUCTURAL CAPACITY

Reinforced top heads support up to 2,000 lbs of dynamic mixer load, eliminating external steel infrastructure over the vessel. Engineered ribbing allows continuous operating pressures up to 1.0–2.0 PSI — superior to roto-molded alternatives (~0.36 PSI).

ACCESS & PIPING

Reinforced Manways & MagnaPlast Fittings



Reinforced Manway Access

Structural manway design carries the same monolithic-integrity standard as the tank body rather than treating access points as a separate bolt-on weak point.



MagnaPlast Manhole

MagnaPlast is Houston PolyTank's own trademarked manhole/access product line — not a separate manufacturer — engineered to the same DVS 2205 material standard as the tank body.

NEXT STEP

"I don't sell tanks. I engineer sleep." — James Riggins

Extrusion-wound HDLPE and PP construction, patented rectangular geometry, and reinforced access — but your actual application still has a specific chemical, concentration, temperature, and structural load that determines the correct configuration.

Fluid, chemistry, concentration, temperature, required capacity, mixer load, and site constraints — that's what a real spec review needs to start.

Request a spec review

james@libertyces.com

(559) 395-5500

libertyces.com