Welded Stainless Water Tank

Seamless shell · SS304 / SS316 / SS316L · Workshop-controlled welding

A welded stainless tank for projects that require a seamless shell, an irregular footprint, a higher head or a hygienic finish. Welding, surface treatment and inspection are agreed before fabrication.

Standard configuration

Item	Standard range	Project-specific options
Material	SS304 / SS316 / SS316L	Higher alloy subject to water analysis
Configuration	Vertical or horizontal; rectangular or cylindrical	Irregular shape subject to drawing review
Plate thickness	2.0 / 3.0 / 4.0 mm and above	Calculated against head, pressure and stiffeners
Welding	TIG / MIG; procedure and qualified welders	Weld map and NDT scope where specified
Surface finish	Pickled and passivated	Weld dressing and Ra requirement
Insulation	Optional	Vapour barrier, cladding and penetration details
Access	Hatch, ladder, vent, drain	Platform and inspection access

Typical applications

- Potable water and hygienic process water
- Fire reserve and high-head storage
- HVAC buffer, make-up and thermal storage
- Industrial process, CIP and boiler make-up
- Food, beverage and pharmaceutical duty where specified

Quality and documentation

Stage	Record
Material	Material certificate and heat number
Fit-up and welding	Weld procedure, welder qualification, weld map
Inspection	Visual inspection; NDT when specified
Surface	Pickling/passivation and finish record
Test	Leak test and water-fill test record
Handover	Drawing, O&M, warranty and as-built record

Enquiry data required

- Application, volume and flow rates
- Water/effluent analysis and cleaning chemicals
- Design pressure or maximum head; vacuum or surge
- Temperature and insulation requirement
- P&ID;, nozzle schedule and flange standard
- Site access, lifting plan and required inspection scope

Pressure-vessel certification, sanitary validation or a specific code stamp is provided only where it is agreed and documented for the project.