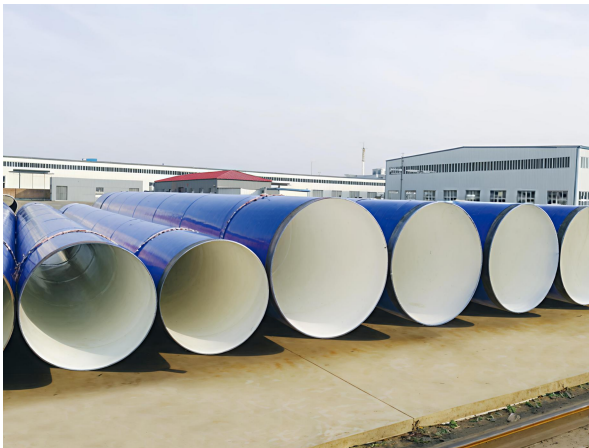


DRINK WATER PIPE LINE

DRINK WATER PIPELINE is engineered for safe and efficient potable water transportation. Manufactured from corrosion-resistant carbon steel (Q235B-Q345B) or stainless steel (304/316L) using submerged arc welding (SAW) or seamless processes. Features NSF-certified internal coatings to prevent bacterial growth and maintain water purity. Certified for 50+ years service life in municipal networks and industrial water supply systems.



- **Outside Diameter:** $\Phi 100\text{mm} - 2000\text{mm}$ (4" - 80")
- **Wall Thickness:** 2.0 - 16mm (0.08" - 0.63")
- **Quality Standards:** AWWA C200/C213, EN 10312, NSF/ANSI 61, GB/T 17219
- **Length:** 6 - 12m (custom up to 18m)
- **Coating:** Cement mortar lining (CML), Epoxy resin, 3PE, or as per sanitary requirements

Specification

Parameters	Typical range	Extreme range	Standard basis	Engineering constraints
Outside diameter	$\Phi 323.9\text{mm} \sim \Phi 762\text{mm}$	$\Phi 168.3\text{mm} \sim \Phi 1524\text{mm}$	API 5L / DNV-OS	>914mm requires specialized installation vessels
Wall thickness	15.0mm ~ 30.0mm	10.0mm ~ 50.0mm	DNV-OS-F101	Thickness >40mm requires special welding procedures
Water Depth	Shallow Water (<300m)	Deepwater (300m-3000m+)	DNV-OS-F101	Ultra-deep (>1500m) requires high collapse resistance
Length	Double Joints (24m)	Quad Joints (48m) / Reels	Project Specific	Reel-lay limits based on vessel capacity

Offshore pipeline Specification Range Reference Table

Classification	Standard	Positioning	Applicability
Material & Manufacture	API 5L PSL2	Global standard for line pipe	Mandatory for most subsea pipelines
Design & Integrity	DNV-OS-F101	Comprehensive offshore pipeline standard	Global standard, especially North Sea & deepwater
Safety & Operation	ASME B31.4/B31.8	US Pipeline Safety Codes	Required for US waters / connecting infrastructure
Quality & Testing	ISO 3183	International line pipe specification	Widely used globally, alternative to API 5L

Offshore pipeline Standards and Applications Comparison Table