

## Stainless steel grades for PUB regulated water fittings- Stainless steel compliance

PUB's current requirement for pipes, valves, fittings and stainless steel sectional water tanks, includes SS 304 and SS 316.

These grades are known for their strength, corrosion resistance, and durability, which are essential for the safe and efficient operation of water systems.



Our ISO/IEC 17025 accredited laboratory provides comprehensive testing and verification services to support manufacturers, suppliers, contractors, and product owners in demonstrating compliance with PUB requirements.

### PUB Requirements for stainless steel materials

#### 1. Water Pipes and Pipe Fittings / Stainless Steel Float Operated Valves / Gasketed mechanical couplings

Grade 304 stainless steel (1.4301) or above

#### 2. Stainless steel sectional water tanks

Grade 316 stainless steel (1.4401) or above

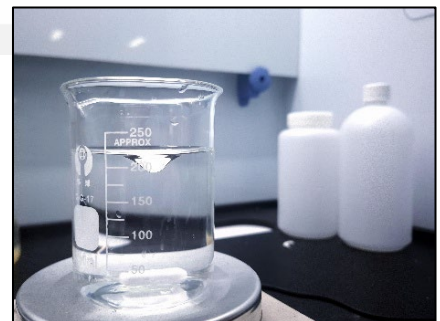
Chemical Composition of compliance stainless steels in BS EN 10088 - 2: 2024

Type	C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Mo (%)
SS 304 (1.4301)	Max 0.07	Max 1.00	Max 2.00	Max 0.045	Max 0.015	17.5 - 19.5	8.0 - 10.5	-
SS 304L (1.4307)	Max 0.030	Max 1.00	Max 2.00	Max 0.045	Max 0.015	17.5 - 19.5	8.0 - 10.5	-
SS 316 (1.4401)	Max 0.07	Max 1.00	Max 2.00	Max 0.045	Max 0.015	16.5 - 18.5	10.0 - 13.0	2.0 - 2.5
SS 316L (1.4404)	Max 0.030	Max 1.00	Max 2.00	Max 0.045	Max 0.015	16.5 - 18.5	10.0 - 13.0	2.0 - 3.0

### Our Testing Service

We provide laboratory verification to support PUB compliance, including:

- ✓ Chemical composition analysis (OES/XRF/ICP)
- ✓ Positive Material Identification (PMI)
- ✓ Chemical resistance
- ✓ Intergranular corrosion testing
- ✓ Material traceability verification
- ✓ Dimensional inspection
- ✓ Surface and visual inspection



We deliver trusted solutions that help customers meet regulatory requirements and industry expectations with confidence, enabling faster access to both local and international markets.