API Specification 6D Reference & Compliance Summary

BRONZE FARTAK INDUSTRIAL VALVE & PIPING SOLUTIONS

DOC CODE: STD-BF-API-6D | CATEGORY: Standard Specification Reference | DATE: OCTOBER 2026

Design Standard: API Spec 6D 24th Edition

Quality Verification: Certified 100% Hydrostatic & Pneumatic Tested under API 598 / ISO 5208

1. OVERVIEW & SCOPE

Technical reference guide summarizing design requirements, material restrictions, wall thickness calculations, and test mandates for pipeline valves according to API 6D.

2. TECHNICAL SPECIFICATIONS & DESIGN PARAMETERS

PARAMETER / CHARACTERISTIC	ENGINEERING VALUE / STANDARD RATING
Standard Authority	American Petroleum Institute (API)
Scope of Standard	Pipeline and Piping Systems Valves (Ball, Check, Gate, Plug)
Shell Test Mandate	1.5 x Design Pressure with Water (Zero Allowable Leakage)
Seat Test Mandate	1.1 x Design Pressure (Hydrostatic) & Low Pressure Air (6 Bar)
Stem Retention	Mandatory Blowout Proof Internal Collar
Marking Requirements	Nameplate with Serial, Size, Class, Material & Monogram

3. QUALITY ASSURANCE & INSPECTION CRITERIA

[+] Bronze Fartak Compliance

All manufactured check and ball valves fully conform to API 6D structural rules.

[+] Cavity Relief Provision

Automatic self-relieving seats prevent catastrophic overpressurization from thermal expansion.

[+] Third-Party Witness Protocols

Procedures configured to accommodate SGS, BV, and Lloydâ s Register inspection witnesses.