MSS SP-97 Integrally Reinforced Branch Outlets Standard

BRONZE FARTAK INDUSTRIAL VALVE & PIPING SOLUTIONS

DOC CODE: STD-BF-MSS-SP97 | CATEGORY: Standard Specification Reference | DATE: OCTOBER 2026

Design Standard: MSS SP-97 / Manufacturers Standardization Society

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

1. OVERVIEW & SCOPE

Reference guide for forged integrally reinforced branch outlet fittings (Weldolet, Sockolet, Threadolet) dimensions, tolerances, and design burst test proofs.

2. TECHNICAL SPECIFICATIONS & DESIGN PARAMETERS

PARAMETER / CHARACTERISTIC	ENGINEERING VALUE / STANDARD RATING
Issuing Body	Manufacturers Standardization Society (MSS)
Standard Code	MSS SP-97 Edition 2019
Ratings Class	Standard (STD), Extra Strong (XS), and 3000 / 6000 LB
Branch Attachment	Full Penetration Weld onto Header Run Pipe
Burst Proof Test	Branch must withstand burst pressure exceeding matched run pipe
Material Specifications	ASTM A105, A182 (F316/F51), ASTM B150 (C63000/C63200)

3. QUALITY ASSURANCE & INSPECTION CRITERIA

[+] Stress Concentration Reduction

Tapered transition profiles avoid notched fatigue cracking under cyclical vibration.

[+] Full Traceability Certification

Direct heat stamp and mill certification supplied in compliance with EN 10204 3.1.

[+] Machining Concentricity

CNC automated bore profiling ensures zero restriction to mainline branching flow.