

## Technical Specification Sheet

### G Thread (Metric BSPP) Male to NPT Female Adapter – Lead-Free (1/4" x 1/4")

**Model:** CSSL56161750

**Brand:** Cascada Showers

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#### 1. Product Overview

The Cascada Showers **1/4" G (BSPP) Male to 1/4" NPT Female Adapter** is a high-quality plumbing fitting designed to seamlessly connect **metric BSPP (parallel) threads to NPT (tapered) threads**. Manufactured from **lead-free brass (C46500)**, this adapter ensures safe use in potable water systems while providing excellent durability and corrosion resistance.

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#### 2. Key Features

- **Thread Conversion:** G Thread (Metric BSPP) Male to NPT Female
  - **Lead-Free Brass Construction:** Safe for drinking water applications
  - **High Precision Machining:** Ensures leak-free and secure connections
  - **Corrosion Resistant:** Ideal for long-term use in residential and commercial systems
  - **Compact Design:** Suitable for tight installation spaces
  - **Easy Installation:** Standard wrench flats for quick installation
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#### 3. Technical Specifications

Parameter	Specification
Product Type	Thread Adapter
Connection Type	Male BSPP (G Thread) × Female NPT
Size	1/4" x 1/4"

<b>Parameter</b>	<b>Specification</b>
Thread Standard	BSPP (ISO 228) to NPT (ANSI B1.20.1)
Material	Lead-Free Brass (C46500)
Lead Content	≤ 0.25% (Compliant)
Finish	Natural Brass
Hex Size	43/64" (17 mm)
Temperature Rating	Suitable for hot & cold water
Application	Plumbing, shower systems, adapters, water supply lines

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#### **4. Material Composition (Certified Test Report)**

The adapter is manufactured using **C46500 lead-free brass**, tested and verified with the following composition:

- Copper (Cu): 60.6853%
- Zinc (Zn): 37.0515%
- Lead (Pb): 0.1001% (Lead-Free Compliant)
- Tin (Sn): 0.6521%
- Iron (Fe): 0.0815%
- Aluminum (Al): 0.1027%

Full chemical composition test report available here:

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#### **5. Dimensions (Based on Engineering Drawing)**

- **Thread Size (Male):** G 1/4"
- **Thread Size (Female):** 1/4" NPT
- **Hex Width (Wrench Size):** 43/64" (17 mm)

- **Inner Bore Diameter:** 5/16" (Ø8 mm)
- **Overall Height:** Approx. 29/32" (23 mm)
- **Thread Depth:**
  - BSPP Side: ~25/64" (10 mm)
  - NPT Side: ~17/16" (11 mm)

✓ Designed with precision threading and tight tolerances to ensure leak-free performance.

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## 6. Applications

- Shower systems & bathroom fixtures
  - Mixing valves and thermostatic systems
  - Plumbing conversions (metric to imperial)
  - Commercial & residential water systems
  - HVAC and industrial fluid connections
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## 7. Compliance & Standards

- **Lead-Free Compliant (C46500 Brass)**
  - Suitable for potable water applications
  - Manufactured to meet international plumbing standards
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## 8. Warranty

This product is backed by **Cascada Showers' quality assurance and durability standards**, ensuring long-term reliability.