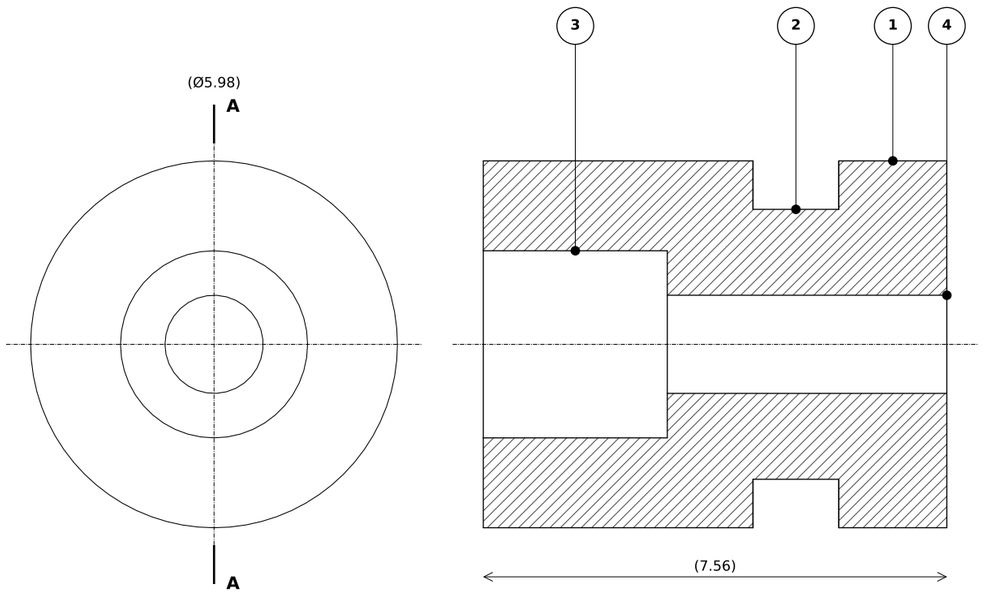

VIEW FROM THE INNER END

SECTION A-A

REQUIREMENTS

1 OD Ø5.97 ±0.02 (5.95–5.99), slides into the gland's Ø6 H8 bore

2 O-ring groove: bottom Ø4.40 ±0.03, width 1.40 +0.10/0, Ra 0.8; for a 4 × 1 FKM O-ring (20% squeeze)

3 Socket Ø3.05 +0.03/0, 3.0 deep, for the 3 mm tube

4 Ø1.6 through

NOTES

1. Model is master: sizes not called out come from nipple.step, at the general tolerance.
2. Break sharp edges 0.1–0.3 unless noted. No burrs. No tool marks across sealing or seating faces.
3. Surface finish Ra 1.6 µm unless noted. Threads to ISO 965 (metric fine).
4. The builder silver-solders it onto the manifold's stem and onto the gas tube.
5. Inspection report, CMM and material certificates are add-ons on the quote.

HIGHLAND Turbojet, 170 N class

nipple.step · highlandmetal.ca

PART Line nipple	PART NUMBER HL-TJ-22		REVISION A
MATERIAL Stainless 316 (ASTM A276 bar)			
FINISH None, as machined		HEAT TREAT None	
TOLERANCE UNLESS NOTED ±0.13 mm (±0.005 in) unless noted; angles ±0.5°			
QUANTITY 3 per engine	MASS 1.3 g		SCALE 10:1
UNITS mm	PROJECTION Third angle	DATE 2026-11-20	SHEET A3, 1 of 1