FIREPLACE GAS VALVE LOCATION & INSTALLATION GUIDE

ARCHITECTURAL INTEGRATION & BUILDING CODE SPECIFICATION MANUAL

01. PROJECT & SITE SPECIFICATIONS

DATE:

CONTRACTOR / ARCHITECT:

JOB / PROJECT NAME:

CONTACT / PHONE:

HOMEOWNER / CLIENT:

GAS INSTALLER / TECH:

SITE ADDRESS:

FUEL SUPPLY TYPE: Natural Gas LP / Propane

02. VALVE SELECTION & DECORATIVE ESCUTCHEON SPECIFICATIONS

VALVE MOUNTING ZONE & KEY SPECS

Zone A: Side Wall Mount (Recessed)
Zone B: Floor Mount (Outside Hearth)

GAS PIPE INLET SIZE:

1/2" NPT Standard 3/4" NPT High-BTU

DECORATIVE GAS KEY LENGTH:

8" Key 12" Key 18" Custom

DECORATIVE FLANGE & ESCUTCHEON FINISH

Antique Brass Polished Chrome Matte Black
Pewter / Oil Rubbed Bronze Polished Brass

VALVE TYPE:

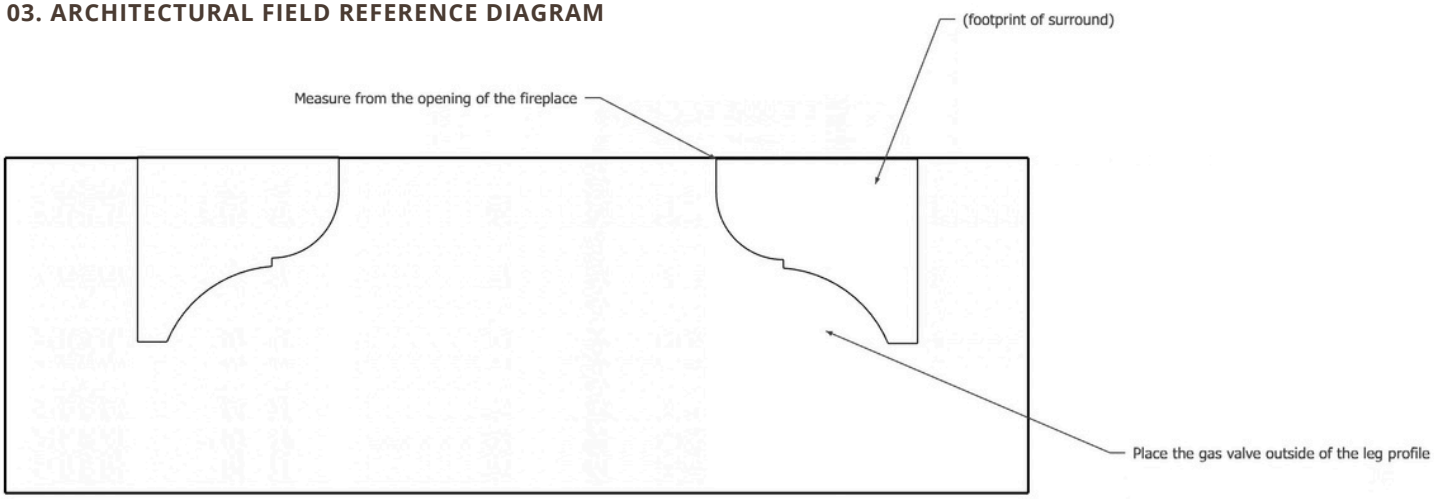
1/4-Turn Ball Valve (Straight)
1/4-Turn Angle Valve

1. AESTHETIC INTEGRATION & SURROUND PROTECTION RATIONALE

Placing the gas shutoff valve requires balancing accessibility with aesthetic harmony:

- **Prevent Cladding Conflicts:** The gas valve box must be offset at least 2" to 4" clear of outer precast concrete surround legs, mantel corbels, or stone returns to avoid structural interference during masonry install.
- **Unobstructed Visual Focal Point:** Positioning the valve on a side wall or lower floor zone ensures the valve key and decorative plate do not distract from the firebox and stone surround.
- **Ergonomic Access:** Locating the valve within a 12" to 36" lateral radius from the opening allows easy key operation without requiring installers or homeowners to reach over hot hearth surfaces.

03. ARCHITECTURAL FIELD REFERENCE DIAGRAM



04. GEORGIA FUEL GAS CODE & BUILDING CLEARANCES

- **IRC R1001 & NFPA 54 (ANSI Z223.1) Shutoff Proximity:** An individual shutoff valve must be installed in the same room as the fireplace, located within 6 feet of the appliance burner, and readily accessible without tools or removing construction.
- **Georgia State Minimum Standard Fuel Gas Code (IFGC Mandates):** Piping must consist of rigid black iron or approved CSST with dielectric unions where required. All threaded joints must use gas-rated PTFE tape or non-hardening pipe dope.
- **Pressure Test Mandate:** Georgia code requires a rough-in pressure test of at least 10 PSI for a minimum of 15 minutes (or soap-bubble leak audit) prior to wall enclosure and stone installation.
- **Hearth Boundary Safety:** Floor-mounted valves (Zone B) must sit outside the non-combustible hearth extension to prevent heat degradation and foot-traffic hazards.

05. PROFESSIONAL INSTALLATION GUIDELINES & QUALITY AUDIT

STEP-BY-STEP VALVE INSTALLATION STANDARD

1. **Rough-in & Blocking:** Anchor solid 2x4/2x6 wood framing backing behind substrate to secure valve body rigidly against key turning torque.
2. **Pipe Threading & Joint Seal:** Run black iron or approved CSST gas supply line. Apply approved pipe thread compound to all male threads.
3. **Valve Setting & Flush Trim:** Position valve body so decorative escutcheon sleeve will set flush against finished drywall or tile.
4. **Pressure Test & Leak Audit:** Perform 10 PSI pressure test. Apply soap-bubble solution to all joints to verify zero leakage.
5. **Escutcheon & Key Fitting:** Install decorative escutcheon flange and test key rotation prior to finalizing stone surround placement.

INSTALLER PRE-COVER AUDIT CHECKLIST

10 PSI Pressure Test Passed: Zero pressure drop verified over 15 mins.

Stone Leg Offset Verified: Min 2"–4" clearance clear of precast return. **6-Ft**

Proximity Verified: Valve within 6 ft of burner in same room.

Flush Flange Set: Sleeve depth matches drywall + tile thickness.