GENERAL:
The Model M and MO Gas Vents (B-Vent) have been designed for use with gas burning Category I appliances. A Category I appliance oper-
ates with a non-positive pressure draft that allows for greater temperature rise. This results in a system that creates a hazardous if parts shown in these instructions are not used. B-Vent is of double wall construction, with the inner flue of aluminum (allowing for rapid warmup and better draft) and the outer casing of galvanized steel or galvanneal. Metal-Fab M-B-Vent is listed with many masonry relining systems, single wall connectors and other listed gas vents. Model M B-Vent may be used to reline masonry chimneys (separate instructions are avail-
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SAFETY:
LISTING: UL listing is based on using B-Vent components supplied by Metal-Fab, Inc. Performance may be affected and a safety hazard created if parts shown in these instructions are not used. Metal-Fab B-Vent pipe and fittings were designed and are listed to comply with all codes and standards that apply. Minimum rise is 1/4 inch (6.4 mm) per foot (305 mm).

INSTALLATION AND MAINTENANCE:
INSTRUCTIONS FOR MODELS M & MO GAS VENTS (B-VENT)

INSTALATION:
Round B-Vent
The Type M and MO Gas Vents and components 3"-14" diameter use the Metal-Fab positive twist lock for interconnections. Align the ends of the pipe sections, push them together then twist to lock in place. See SureLock tab, table below. These components provide 360 degrees of rotation to position the appliance without interconnecting parts. Round B-Vent Cap (MOC) completes the installation.

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1. Cut a hole in the outside wall 1/4" larger than the diameter of the sleeve on wall thimble (MWT).
2. Install the wall thimble by inserting the larger of the two parts on the appliance side and the other half through the outside wall.
3. Install chimney sections vertically, starting at the tee. Attach a WALL BRACKET EVERY SIX FEET TO SECURE THE VENT TO THE WALL. NOTE: A minimum clearance of 1" to combustibles is required.
4. Make remainder of vent installation per B-Vent installation instructions.

**INSTALLATION INTERCONNECTIONS
DETAIL 2 – STYLE M OVAL**

**FIGURE 1**

1. Cut a hole in the outside wall 1/4" larger than the diameter of the sleeve on wall thimble (MWT).
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**INSTALATION INTERCONNECTIONS
DETAIL 2 – STYLE M OVAL**

**FIGURE 2A**

- Apply caulk or metal-fab mst tape where vent passes through flashing
- Tighten clamp to secure

**FIGURE 2B**

- Male end of gas vent other than metal-fab
- Standard metal-fab B-Vent

**FIGURE 3**

- After installation secure with (3) 1/4" long sheet metal screws
- Insert 3/4" to 1 1/2"

**FIGURE 4**

- See figure 1 for termination
- Supports on lateral run – max. 5.0 ft. (1524 mm) between supports
- M12A or M16A (used to adjust for varying lengths)
- MIP (red) above tee and every 30 ft. (914 mm)
- Keep horizontal length short as possible for good draft

**FIGURE 5**

- Cut away plates & floor
- Ceiling plate cut away half width of stud space
- Ceiling plate
- Studs
- Blocking removed
- Be sure lock is engaged
- firestop spacer nailed to plate at ceiling
- OVAL GAS VENT PIPE
- Integral space
- Plate & flooring cut away full width of stud space
- Sub-floor plate
- Firestop spacer nailed to plate & studs at floor
- Half of each firestop spacer with vent pipe

**FIGURE 6**

- Using oval for termination
- MISC STORM COLLAR
- MO Flashing
- Caulk (or MIP)
- Secure flashing to roof - Caulk
- Flashing over roofing on down side, under on up side
- MOC OVAL VENT CAP
- MO Flashing
- MISC OVAL VENT
- Stays on top of pipe
- No oval vent
- 2 x 4 STUDS @ 16" CTR.
- Recessed heater header plate
- Heating header plate
- 4CFSP ceiling plate spacer
- 4 CFSP base plate

**FIGURE 7**

- Open attic of single story or upper floor of multi-story building
- Ceiling plate spacer 4 CFSP
- Ceiling plate spacer 4 CFSP
- Ceiling plate
- Screw
- MO OVAL pipe
- 4 CFSP base plate
- MO OVAL pipe
- At second and subsequent ceiling levels, use 4CFSP firestop spacer
- At first ceiling level, use 4CFSP ceiling plate spacer
- At first ceiling level, use 4CFSP ceiling plate spacer
- At second and subsequent ceiling levels, use 4CFSP firestop spacer