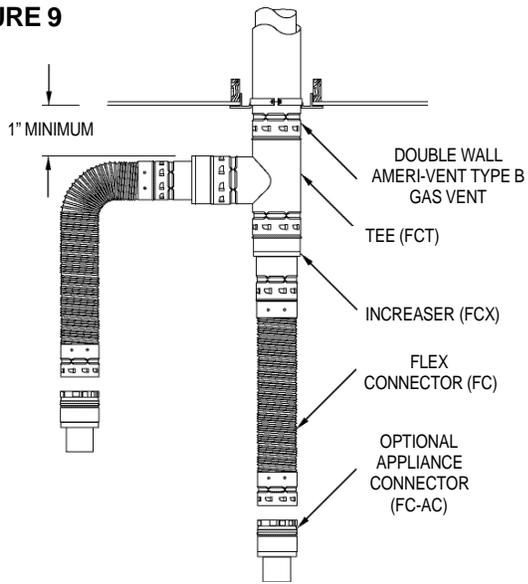
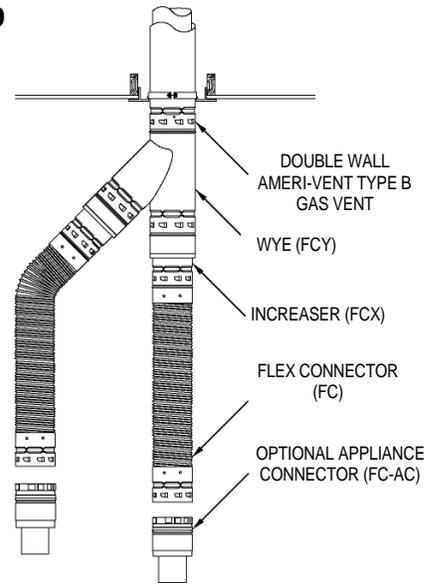


**FIGURE 9**



**FIGURE 10**



**AMERICAN METAL<sup>®</sup>**  
**PRODUCTS**

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# Installation & Assembly Instructions



This symbol on the product means the product is listed by Underwriters Laboratories, Inc.

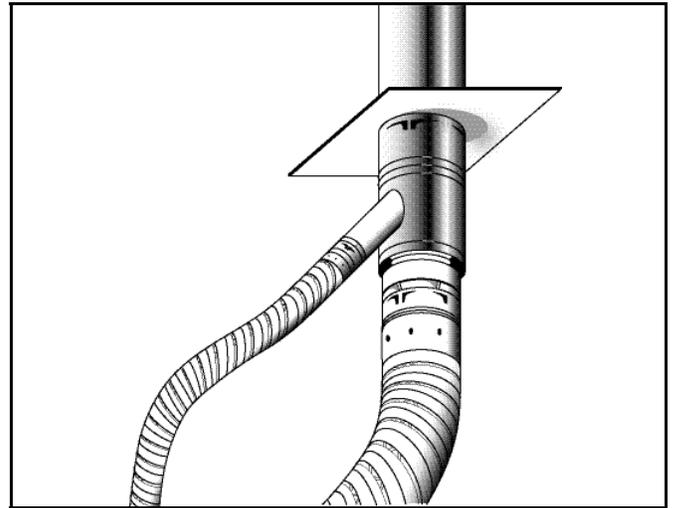
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## AMERI-FLEX MODEL FC-SINGLE WALL GAS VENT CONNECTOR SYSTEM

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The Ameri-Flex Model FC Single Wall Gas Connector may be used as a connector for listed gas appliances equipped with a draft hood or other appliances listed for use with Type B Gas Vent. This includes furnaces, boilers, and hot water heaters. These gas appliances may be connected singly, or in multiples, as long as the connectors are properly sized using the appliance manufacturer's instructions and the National Fuel Gas Code NFPA 54.

**WARNING--** This product **is not** Type B Gas Vent and **should not** be used in applications where Type B Gas Vent is required. **Do not** totally enclose. **Do not** pass through walls, floors, ceilings or install in attics or crawl spaces.



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## GENERAL INSTALLATION GUIDELINES

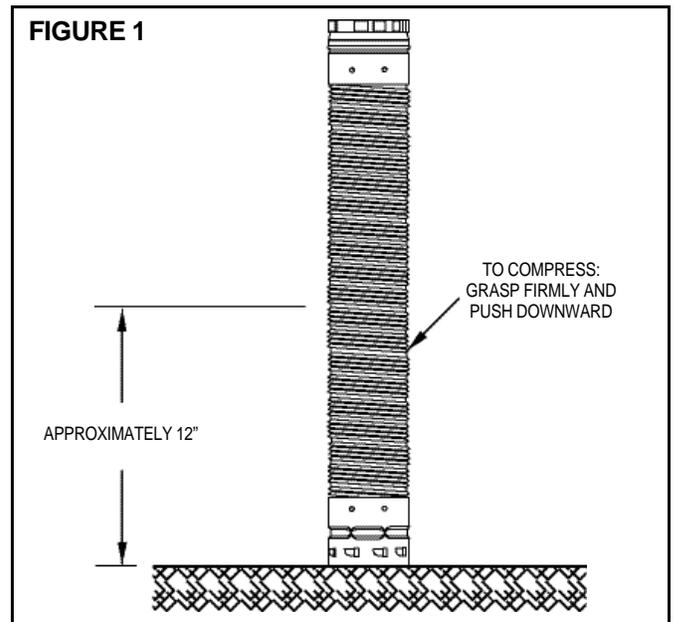
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1. The connectors shall be sized according to the gas appliance instructions and the National Fuel Gas Code NFPA 54. An alternate sizing method allows the effective area of the connector to be not less than the area of the draft hood or outlet collar.
2. The Ameri-Flex connector system should be generally installed as follows:
  - a. In as short and straight run as possible with no unnecessary bends.
  - b. Without any dips or sags.
  - c. Slope upwards at least 1/4" per foot.
  - d. No bends greater than 90°.
3. The Ameri-Flex gas vent connector system **does not** require use of sheet metal screws at any snap lock joint.

The only use of screws is at the connection to the appliance draft hood or outlet collar and if a tee cap is fastened to an unused opening of a tee or wye.

4. **Ameri-Flex gas vent connector is UL listed for installations where single wall gas vent connectors are acceptable except, the minimum clearance to combustibles may be reduced from six to one inch.**
5. **Do not** cut or modify the flexible lengths of connector pipe. The lengths will compress approximately 4" per foot. (See Fig. 1) When the flexible pipe length is too long shorten by compressing flex. Note: Compression will not affect the venting performance but will reduce the flexibility of the connector.

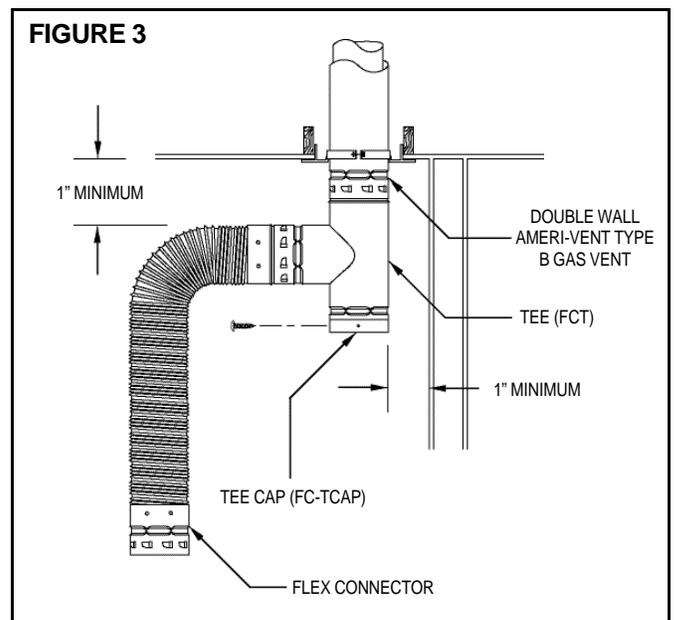
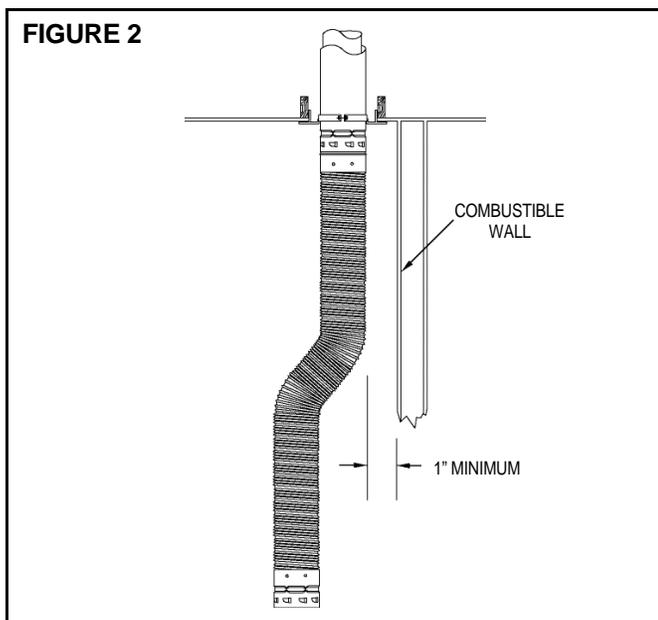
6. Flexible material is a special alloy .012 thick aluminum. **Do not** substitute **any** alternate, lightweight aluminum flex material.
7. When making a bend in an Ameri-Flex connector do not bend over sharp edges. Make the bend as smooth as possible.
8. Ameri-Flex gas vent connector system is tested and listed by UL for one inch (1") clearance to combustibles in an **unenclosed** installation. Ameri-Flex vent pipe hangers (VPH) should be used at each end of a flexible length that is not attached to a fixed point, i.e. an appliance outlet.

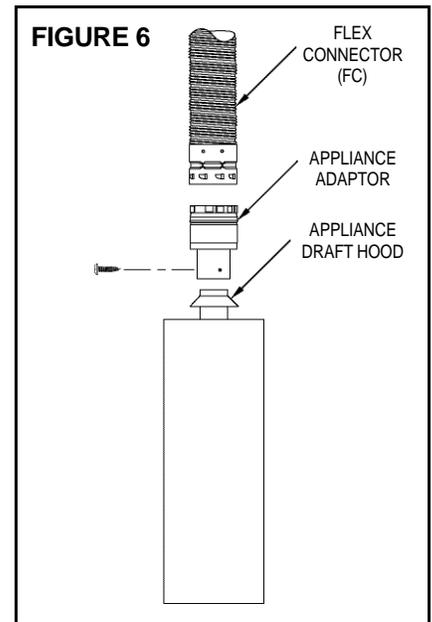
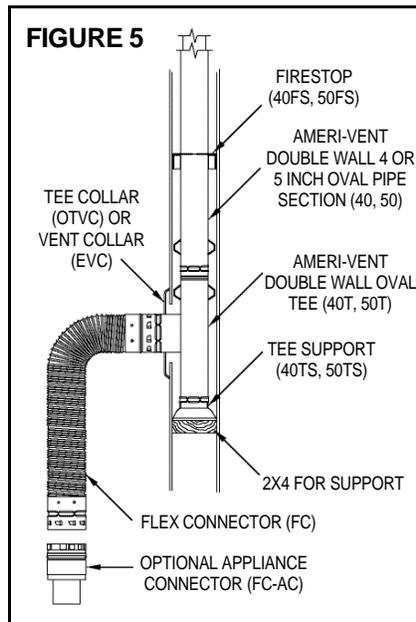
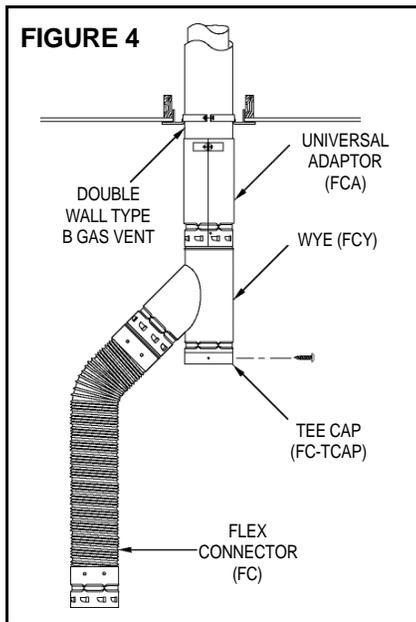


## SINGLE APPLIANCE CONNECTOR SYSTEMS

1. Make sure the Type B gas vent is securely mounted and that it protrudes into the appliance room. (See Fig. 2) The Ameri-Flex connector must not penetrate any combustible ceiling or wall.
  2. Snap lock the Ameri-Flex flexible gas connector section (that most closely matches the correct length) to the bottom of the B vent protruding into the room. (See Fig. 2).
- Note:** For retrofit applications the Ameri-Flex connector may be connected to almost any brand of Type B gas vent by the use of the (FCA) universal adaptor--(See Fig. 4)--which slips over the outside of the bottom of the B vent and clamps in place with a nut and bolt.

3. Alternate ways of connecting the Ameri-Flex connectors to the Type B gas vent involve the use of a tee (see Fig. 3) and a tee cap, or a wye and a tee cap. Attach tee cap with sheet metal screws. (See Fig. 4).
4. The Ameri-Flex flexible connector may also be connected to an oval B vent mounted in a stud wall (See Fig. 5).
5. In each of the above cases the connection of the Ameri-Flex connector only requires pushing the two joints together until they snap lock. No screws are required. If alignment of the flex connector, tee or wye is not correct the lock joint can be rotated 360° without disturbing the quality of the lock.





6. Once the Ameri-Flex connector is locked in place, bend the connector to the general location of the appliance.  
**Note:** If the flex connector is slightly too long **do not** cut the connector. Compress the connector to the right length. (Fig. 1)

7. Bend the flex connector down to the appliance outlet and connect to the appliance. The Ameri-Flex connector **may**

be directly connected to the appliance, but the Ameri-Flex Model (FC-AC) appliance connector is recommended. Screw the connector to the draft hood or collar and snap lock the flexible connector to the appliance connector. (See Fig. 6)

8. The vent connector system is now completely secured and aligned with the least possible resistance.

## MULTIPLE APPLIANCE CONNECTOR SYSTEMS

1. If more than one appliance is connected to a common vent a wide selection of tee and wyes (model FCT-, FCY-) may be used. (See Fig. 7, 8) This shows a reduction wye or tee snapped onto the B vent system. The body (trunk) of a tee or wye should be the same size as the common vent. Reduction tees and wyes have smaller inlet openings to snap lock directly to the flexible lengths. (See Fig. 7, 8) Standard tees and wyes have the inlet openings the same size as the trunk. Use increasers (FCX) between the flexible lengths. (See Fig. 9, 10.)

2. As in the single connector system the wye or tee may be connected to almost any brand of B vent with the use of the universal adaptor.

3. The remaining steps are exactly the same as those for the single appliance connector system.

