

**SAMPLE SPECIFICATION – DOUBLE WALL INSULATED – 4” TO 22” DIAMETERS
UL-1738 / ULC-S636 POSITIVE PRESSURE VENT – DURASEAL™ DSID**

PART 1 GENERAL

1.1 SCOPE

- A. The provisions of Section ____, Mechanical General specifications apply to all work in this Section.
- B. This Section includes all specifications relating to the furnishing and installing of Single Wall Positive Pressure Vent Systems.

1.2 SUBMITTALS

Submit the following items in accordance with Section ____:

- A. Catalogue cuts / Diagrams / Descriptions
- B. Sizing calculations
- C. Installation Instructions
- D. Installation Drawings
- E. Copy of product warranties

1.3 CODES AND APPLICABLE STANDARDS

All products furnished under this Section shall conform to the requirements of The National Fuel Gas Code, ANSI Z223.1 / NFPA-54 where applicable and shall comply with and be listed to UL 1738, the U.S. Standard for Venting Systems for Gas –Burning Appliances, Category II, III and IV and ULC-S636, the Canadian Standard for Type BH gas vent systems. Components coming in direct contact with products of combustion shall carry the appropriate UL / ULC listing.

It can also comply to standard UL-641 and ULC-S609 for venting of L-Vent certified appliances.

1.4 WARRANTIES

The Manufacturer shall warrant the Positive Pressure Vent System against defects in material and workmanship for a period of 15 years from the date of original installation. Any portion of the vent repaired or replaced under the warranty shall be warranted for the remainder of the original warranty period.

PART 2 PRODUCTS

2.1 POSITIVE PRESSURE VENT

- A. The vent shall be of double wall insulated, factory built type, designed for use in conjunction with Category I, II, III or IV condensing or non-condensing gas fired appliances or as specified by the heating equipment manufacturer. The vent can also be used on type L-vent certified appliances.
- B. Maximum continuous flue gas temperature shall not exceed 480°F (249°C).
- C. Vent shall be listed for a minimum positive pressure rating of 6" W.C. and shall have passed at 35" W.C.
- D. The vent system shall be continuous from the appliance's flue outlet to the vent termination outside the building. All system components shall be UL / ULC listed and supplied from the same manufacturer.
- E. The vent shall be constructed with an inner and outer tube, where the annular space between the tubes is 2-inch and filled with glass fiber insulation.
 - a. The inner tube (flue gas conduit) shall be constructed from AL29-4C® stainless steel, with a minimum wall thickness of .015" for 4" through 8" diameter vents, .020" for 10" through 16" and .024" for 18" through 22" diameter vents.
 - b. The outer tube (jacket) shall be constructed from 441 stainless steel with a minimum wall thickness of .015" for 4" through 8" diameter vents, .020" for 10" through 16" and .024" for 18" through 22" diameter vents.
- F. All system components such as vent supports, roof or wall penetrations, terminations, appliance connectors and drain fittings require to install the vent system shall be UL / ULC listed and provided by the vent manufacturer.
- G. Vent layout shall be designed and installed in compliance with manufacturer's installation instructions and all applicable local codes.

2.2 AVAILABLE MANUFACTURERS

Vent shall be DuraSeal™ DSID by M&G DuraVent.

PART 3 EXECUTION

3.01 VENT SYSTEM LAYOUT

- A. The vent system shall be routed to maintain minimum clearance to combustibles as specified by the manufacturer.
- B. Vent installation shall conform to the manufacturer's installation instructions, its UL / ULC listing and state / local codes.
- C. The vent system and breechings shall be inspected and cleaned before the final connection to the appliances.

3.02 MECHANICAL EQUIPMENT

- A. If dampers or fans are installed in conjunction of the vent system, such equipment shall be supported independently from the vent system. Protect the vent system from twisting or movement due to fan torque or vibration.