

**NEW Z-Vent<sup>®</sup> Double Wall Gas Vent with ZV-Clamp<sup>™</sup>** provides significantly increased joint strength and reduces installation time by enabling multiple sections to be assembled on the floor prior to installation. Integrated outer flange with ZV-Clamp<sup>™</sup> ensures fully engaged joint and fast, trouble free field assembly of large diameter sections. Internal double fail safe FKM gasket provides vent gas seal at the inner pipe and allows for thermal expansion during heat/cool cycles.

## Features

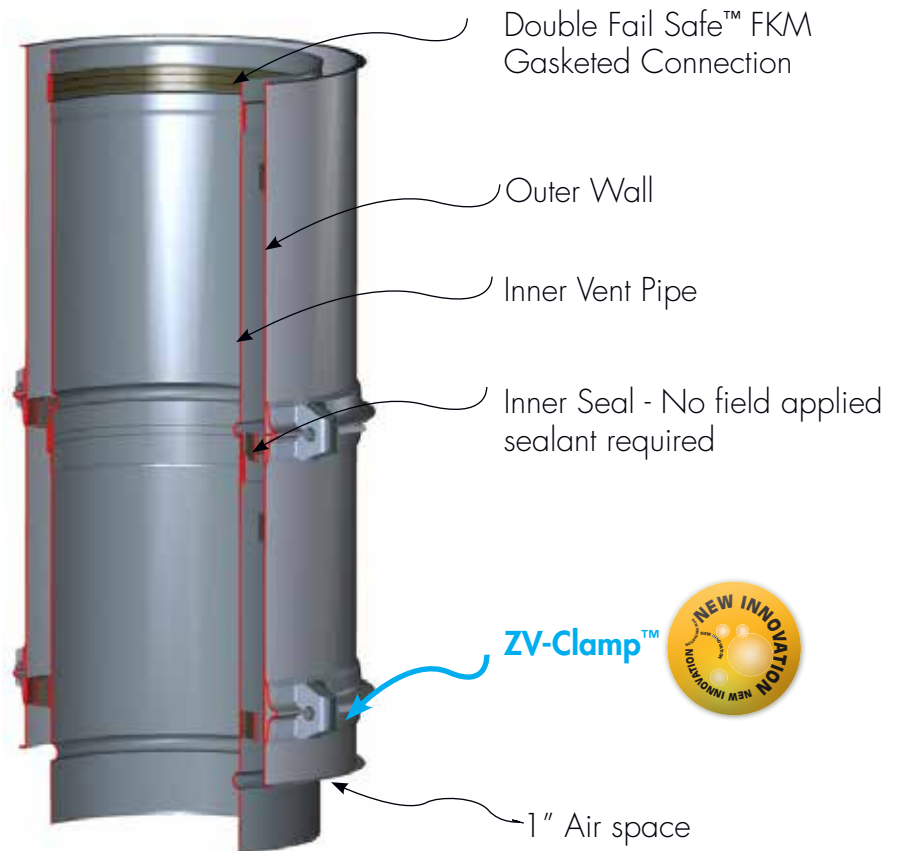
- Flange to Flange ZV-Clamp<sup>™</sup> outer connection
- Factory installed Double Fail-Safe<sup>™</sup> self-sealing FKM gasket connection
- Precision factory formed pipe and fittings, with fusion welded seams

## Significant Advantages

- Tested to 4 times safety factor for strength
- Gasketed connection provides air/water seal and thermal expansion
- Designed for quick, professional assembly

## Benefits

- Increased structural integrity
- Self-sealing joints reduce installation time and labor up to 25% compared to field sealed systems
- Allows multiple sections to be assembled on the floor prior to installation



## Z-VENT<sup>®</sup> Double Wall Gas Vent System with ZV-Clamp<sup>™</sup> Connections

The air insulated double wall construction reduces outer wall surface temperatures, clearance to combustibles and adds thermal resistance helping to maintain stack temperature.

Pipe and fitting ends are precision formed by specially designed high tolerance tooling. All seams are continuously welded using proprietary Z-Weld technology providing long service life and an air and water tight construction. Fusion welded components provide superior fit, reduced turbulence and flow resistance.

**ZQuote ENGINEERING SERVICES:** Z-Flex<sup>®</sup> offers detailed chimney layout drawings with bills of material on request. Our technical support team will review provided appliance data and determine the correct size and parts for any venting system.

## APPLICATION

**Z-VENT<sup>®</sup>** Double Wall with ZV-Clamp<sup>™</sup> is a factory built, engineered Special Gas Vent System suitable for venting positive, neutral or negative pressure Category I, II, III, IV gas fired heating equipment. The maximum rated vent gas temperature is 550°F (288°C ) for up to 12" diameters or 480°F for 14" - 24" diameters.

## CONSTRUCTION

The inner vent is manufactured from super ferritic UNS S44735 (i.e. AL29-4C<sup>®</sup>)\* stainless steel. AL29-4C<sup>®</sup>\* alloy shows excellent resistance to chloride ion pitting, crevice corrosion and stress corrosion cracking, making it the ideal choice for battling the effects of high temperature vent gases and corrosive condensate from high efficiency gas heating equipment. A unique built-in **Double Fail Safe FKM Gasket System** provides air and water tight connection with no sealant required.

The double wall system has a one inch air space between the vent walls providing an insulation factor. The outer wall is fabricated from Type 304 stainless steel or optional 316L on special orders where vent is installed in potential corrosive environments. Fusion welded components provide superior fit, reduced turbulence and flow resistance. Also eliminated are crevices and other spots where condensation can collect and corrode the vent.

## MATERIAL SPECIFICATION

ASTM A268, A240. ASME SA268, SA240

## PATENTED SEALING SYSTEM

**Z-VENT<sup>®</sup>** components are supplied with factory installed, patented (US patent 6-523-865), self-sealing FKM gasket. The gasket's special design, along with precision engineered close tolerance of components construction, ensure an air and water tight fit leakage tested to 2½ times the UL pressure rating of 8" W.C.

## CERTIFICATIONS

Up to 24in. UL tested and listed to UL1738/ULC S636 as a Venting Systems for Gas-Burning Appliances, Category I, II, III and IV in UL File MH 18505

**Please note:** Different manufacturers have different joint systems and adhesives. Do not mix pipe, fittings or joining methods from different manufacturers without an approved adapter, as doing so will void any and all warranties.

\*AL29-4C is a registered trademark of ATI Properties, Inc.

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