

## Technical Specifications

### Material

- All components 4X3 Stainless Steel
- Built-in seal in female end of the vent
- 4X3 Stainless Steel alloy is exclusive to this product

### Uses

- Special Gas Vent (horizontal and vertical) for mid- and high-efficiency residential gas furnaces, water heaters and boilers
- ANSI Category I, II, III or IV appliances
- Negative and positive pressure vent systems
- Condensing, near-condensing and non-condensing vent systems

### Diameters

- 3" and 4" Single Wall
- 3/5" and 4/7" Double Wall

### Fuels

- Natural gas
- Propane

### Pressure

- Positive up to 8" wc, negative or neutral

### UL/cUL Listed

- Tested and Listed to UL1738 and ULC-S636

### Installation Requirements

Follow instructions and maintenance guide

Model	Diameter	Maximum Appliance Flue Gas Temp	Minimum Clearance to Combustible Material			
			Enclosed Vent		*Unenclosed Vent	
			Vertical	Horizontal	Vertical	Horizontal
DGV	3" & 4"	550°F	0" (no offsets)	N/A	0"	1"
DGV	3" & 4"	330°F	0" (w/ offsets)	0"	0"	0"
DGV	3" & 4"	400°F	1" (w/offsets)	1"	0"	0"
SGV	3" & 4"	480°F	4"	8"	1"	1"
SGV	3" & 4"	550°F	4"	N/A	1"	1"

\* = at least 1 side open. Combustible materials on a maximum of 3 sides

Minimum Clearance to Non-Combustibles is 0" for Flue Gas temperatures up to 550°F - all configurations

**HeatFab products are listed for use with more heating appliance manufacturers than any other Brand, including:**

- Burnham
- Bosch
- Laars
- Mestek
- Peerless
- Rheem
- Rinnai
- Slant Fin
- ...and more

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SGV/DGV 001-E R&B 3954-11-09

# heatfab<sup>®</sup> SGV/DGV Special Gas Vent

Single Wall and Double Wall Vent System

**NEW  
4X3  
STAINLESS  
STEEL**

- No RTV sealant required because the seal is built right in
- Easy-to-Install connection system for fast and secure installations
- Manufactured using HeatFab 4X3 Stainless Steel alloy



The uniquely designed all stainless steel venting system for special gas vent applications such as Tankless Water Heaters, High Efficiency Boilers, and other Category I, II, III and IV Appliances

## Why Buy SGV/DGV?

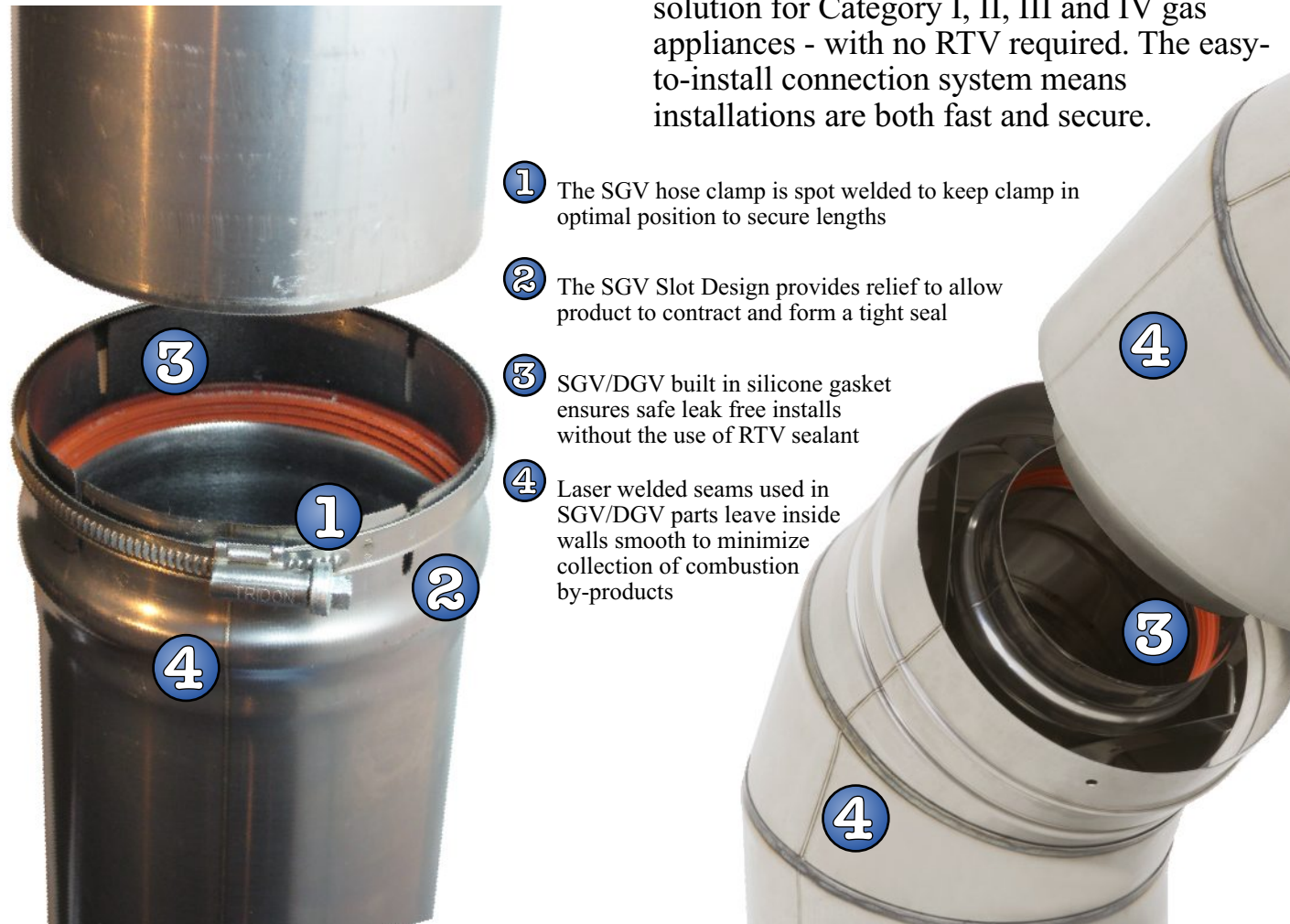
HeatFab SGV/DGV is a UL1738/ULC S636 listed, all stainless steel venting system designed for Special Gas Vent applications.

### SGV Single Wall

SGV Single Wall is constructed of our proprietary 4X3 Stainless Steel alloy for superior corrosion resistance. The built in silicone gasket and laser welded seams provide a reliable venting solution for Category I, II, III and IV gas appliances - with no RTV required. The easy-to-install connection system means installations are both fast and secure.

### DGV Double Wall

DGV Double Wall is constructed with an inner liner of our proprietary 4X3 Stainless Steel alloy for superior corrosion resistance. The outer jacket is 409 Stainless Steel. The Double Wall, concentric design allows DGV to be used with listed appliances requiring outside air intake, or as a zero clearance segment in combination with SGV Single Wall system. The built in silicone gasket and laser welded seams provide a reliable venting solution for Category I, II, III and IV gas appliances - with no RTV required. The easy-to-install connection system means installations are both fast and secure.



- ① The SGV hose clamp is spot welded to keep clamp in optimal position to secure lengths
- ② The SGV Slot Design provides relief to allow product to contract and form a tight seal
- ③ SGV/DGV built in silicone gasket ensures safe leak free installs without the use of RTV sealant
- ④ Laser welded seams used in SGV/DGV parts leave inside walls smooth to minimize collection of combustion by-products

### Easy-to-Install Connection System

Easy-to-install connection system means installations are both fast and secure. Simply slide the male end into the female end and tighten the attached hose clamp (SGV) or secure with supplied self tapping metal screws (DGV). This coupled with the built in silicone gasket provides for an easy, safe and reliable installation.

## Why 4X3 Stainless Steel?

### High Thermal Conductivity and Low Coefficient of Thermal Expansion

- Our proprietary 4X3 alloy has a higher thermal conductivity and lower coefficient of thermal expansion than austenitic alloys, such as 304 and 316 stainless steel.

### Pitting and Crevice Corrosion Resistance

- The chromium and molybdenum content of 4X3 provides increased resistance to pitting and crevice corrosion, that combined with its general corrosion resistance to a multitude of environments makes it an excellent choice for this application.

### Stress Corrosion Cracking Resistance

- 4X3 Stainless Steel is practically immune to chloride stress corrosion cracking (SCC). The following table compares the resistance of the 4X3 alloy to conventional austenitic stainless steels in standard boiling test solutions. This testing was performed with U-bend specimens prepared in accordance with ASTM G30. The “pass” designation indicates that no cracking was observed during a 1000 hour exposure period. The “fail” designation indicates that samples did exhibit cracking during the test exposure. As shown 4X3 alloy resists cracking in all test solutions while the austenitic alloys exhibit cracking in all three boiling solutions.

Alloy	42% MgCl <sub>2</sub>	33% LiCl	26% NaCl
4X3	Pass	Pass	Pass
Type 304	Fail	Fail	Fail
Type 316	Fail	Fail	Fail



## Typical Installations

