Type B Gas Vent

Simpson Dura-Vent
Engineered Excellence

Applications

Simpson Dura-Vent's Type B Gas Vent system. Use with natural gas or liquid propane category I and draft hood equipped appliances, and appliances tested and listed to use Type B Gas Vent. Applications include: natural gas fireplaces, gas-fired furnaces, boilers, water heaters, and wall or space heating applications.

Materials and Construction

Round Type B Gas Vent 3" - 8" and oval 4" - 6": Aluminum .012" inner wall, galvanized .018" outer wall.
Round Type B Gas Vent 10" - 16": Aluminum .016" inner wall, galvanized .021" outer wall.
Round Type B Gas Vent 18" - 30": aluminum .020" inner wall, galvanized .021" outer wall.
3"-16" diameters feature twist-lock fittings, screws required for 14" and larger diameters.

Clearances

1" clearance to combustibles in single and multi-family dwellings.

Diameters

3"- 30" Round Diameter.
4", 5", and 6" Oval

Listings

UL Listed to UL 441 and UL 1777 (MH6357).
ULC Listed to ULC S605 (CMH1276 & CMH1407).

UL 441 and ULC S605 System

Type B Gas Vent

Simpson Dura-Vent innovative system for a lock-tight connection for Type B Gas Vent called DuraLock. See the alignment indicators meet; feel the ends grasp together; hear the snap as the connection firmly locks into place.
(See next page.)

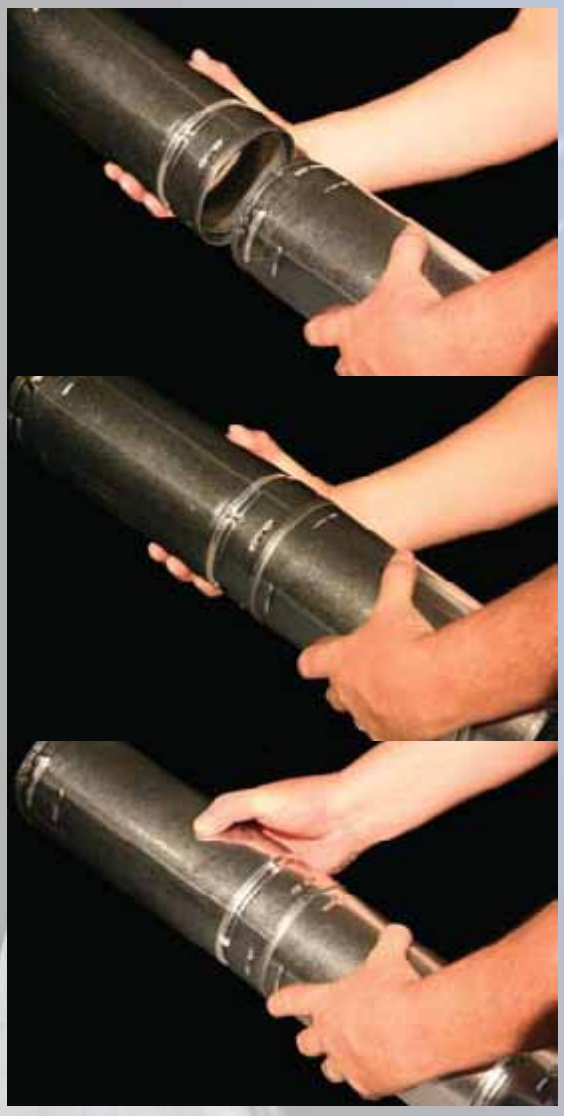
Simpson Dura-Vent Type B Gas Vent is designed to meet the rugged demands of the job site. The inner wall is recessed to eliminate damage in handling.

Type B Gas Vent has been engineered to heat up rapidly. It remains hot during the operation of the appliance with minimal condensation in the appliance and vent system. Pipe lengths are available in multiple lengths, 6 to 60 inches, with a full complement of adjustable and rigid fittings.

Type B gas vents are not suitable for use with wood-burning or coal applications, industrial ovens, exhaust ranges and hoods, grease or pollution ducting, or as free-standing exhaust vents for high-temperature applications.

DuraLock™

An Innovative System for a Lock-Tight Connection for Type B Gas Vent. DuraLock.
See, Hear, and Feel the Difference....



An innovative system for a lock-tight connection that you see, feel, and hear… assuring a snug fit every time.

See…the alignment indicators meet when connection locks into place.
Feel…the ends grasp together as sections twist into their locked position.
Hear…the snap as the connection firmly locks into place.

With DuraLock, there is no need to find sharp tabs to bend into slots. DuraLock is a sleek design without perforations to minimize heat loss.

DuraLock is a welcome solution to installations. No sheet metal screws are needed. No tools are required. Installation time is minimized.

Even with a firm lock, the DuraLock system still allows the installer to unlock the pipe to change lengths, if needed. No tools are required to bend or to pry the lock apart.

DuraLock is compatible with existing inventories of Simpson DuraVent Type B Gas Vent. Patent pending.

SIMPSON
Dura-Vent

DuraConnect II

Materials and Construction
.010" Double-wall aluminum flex inner wall (two-ply .005"), .018" galvalume outer wall, with twist-lock connections.

Clearances 1" to combustibles.

Diameters 3", 4", 5", and 6".

Listings
c-UL-us Listed to UL 441 and ULC/ORD-C441 (MH14089).

c UL us

DuraConnect I

Materials and Construction
.010" Single-wall aluminum flex (two-ply .005"), with twist-lock connections.
.018" Single-wall galvalume components with twist-lock connections.

Clearances 1" to combustibles.

Diameters 3", 4", 5", and 6".

Patented

Listings
c-UL-us 441 and ULC/ORD C441 (MH14089).

c UL us

c-UL-us 441 System

DuraConnect II

Double-wall connector pipe, UL approved as a Type B Gas Vent segment, for use in conditioned and unconditioned attics and crawl spaces. (Not to be enclosed and cannot penetrate through walls, floors, or ceilings.) Simpson Dura-Vent's DuraConnect II is known as the "Contractor's Choice" for its ease of installation and durability.

DuraConnect II's heavy-duty construction features precision twist-lock connection, which provides ease of assembly or disassembly without damage to the product.

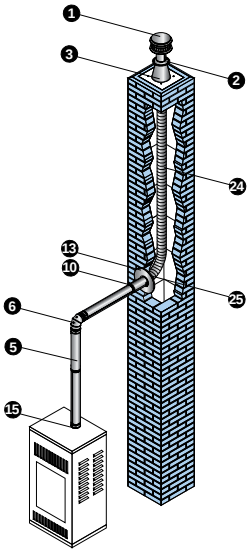
The double-wall flexible vent is certified as having the equivalent thermal properties as Type B Gas Vent and can be used when a Type B Gas Vent double-wall connector is required.

DuraConnect I

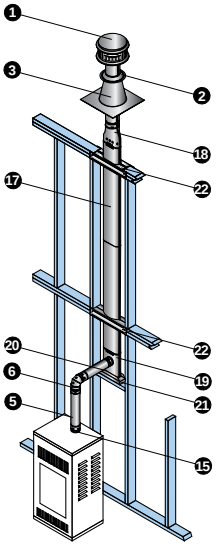
Single-wall connector pipe and components for use wherever single-wall connectors are allowed.

It offers a quick, easy connection from an appliance to the B-Vent system. Its flexible connector pipe can flex to make offsets connect directly to Simpson Dura-Vent's Type B Gas Vent, without the use of elbows.

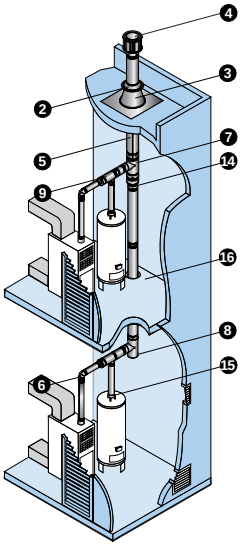
Typical Installations



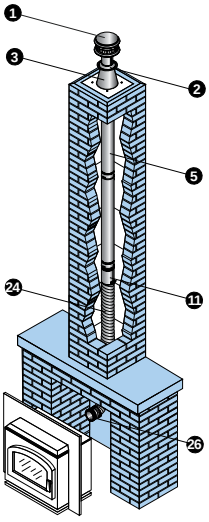
Furnace To Masonry



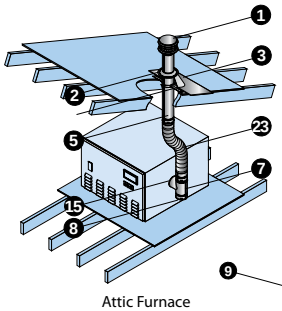
Furnace To Oval Type B Gas Vent



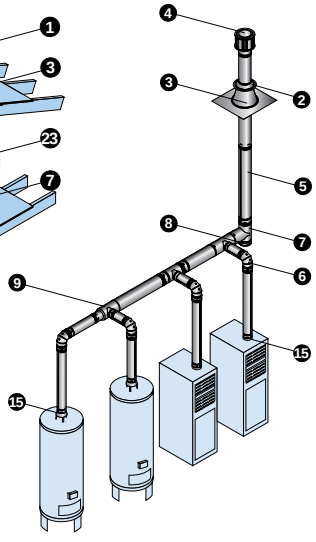
Multi-Story



Gas Insert To Masonry



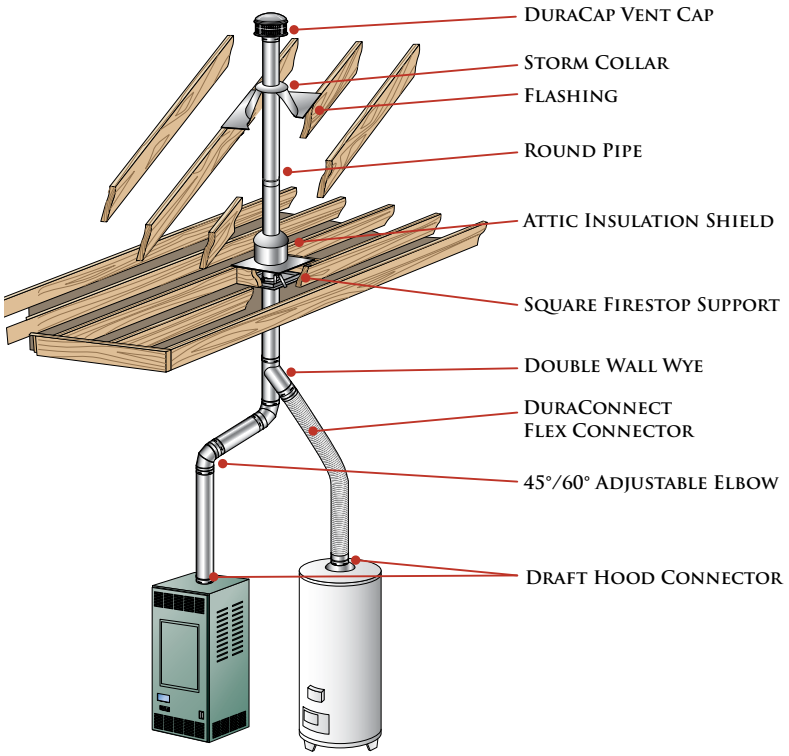
Attic Furnace



Type B Gas Vent Manifold

Installation Key			
1	DuraCap	14	Increaser
2	Storm Collar	15	Draft Hood Connector
3	Roof Flashing	16	Square Firestop Support
4	High-Wind Cap	17	Oval Pipe
5	Round Pipe	18	Oval to Round Adapter
6	Elbow	19	Oval Tee
7	Tee	20	Oval Tee Cap
8	Tee Cap	21	Oval Tee Support
9	Increaser Tee	22	Oval Firestop Spacer
10	Female Flex Adapter	23	DuraConnect II
11	Male Adapter	24	DuraFlex AL Length
12	Double-Wall Wye	25	DuraFlex Motar Sleeve
13	Pipe Collar	26	DuraFlex AL Coupling

Refer to our Typical Venting Installation drawings to select the appropriate component parts for your installation.



How Size and Height Affect Stove Performance

• The amount of heat the vent gases lose as they flow determines how much condensation will occur and how strong the draft will be. To control the heat loses, proper selection of venting materials is of vital importance.
• Double-wall Type B Gas Vent, with an aluminum inner wall and a galvanized steel outer wall, has proven to be the ideal choice in venting materials.
• A Type B Gas Vent Sizing Handbook is available to assist you with the proper installation. View online at www.duravent.com, under catalogs and instructions.

Vent Termination Chart

Using listed Type B Gas Vent caps may terminate in accordance with this table.

	Minimum Height	
Roof Pitch	Feet	Meters
Flat to 7/12	1	0.30
Over 7/12 to 8/12	1.5	0.46
Over 8/12 to 9/12	2	0.61
Over 9/12 to 10/12	2.5	0.76
Over 10/12 to 11/12	3.25	0.99
Over 11/12 to 12/12	4	1.22
Over 12/12 to 14/12	5	1.52
Over 14/12 to 16/12	6	1.83
Over 16/12 to 18/12	7	2.13
Over 18/12 to 20/12	7.5	2.29
Over 20/12 to 21/12	8	2.44

Gas Vent Specification Chart

Item	Clearances	Maximum Height	Outer Tube Ø	Materials	Locking Device	UL Listing	ULC Listing
Type B Vent Round 3"-8"	1 inch to combustibles	100 feet	⅝" larger than ID	Inner - .012" Aluminum Outer - .018" Galvanized	DuraLock	MH6357	CMH1276
Round 10" to 16" See note 2	1 inch to combustibles	100 feet	1" larger than ID	Inner - .016" Aluminum Outer - .021" Galvanized	TwistLock Screws	MH6357	CMH1276
Round 18" to 30"	1 inch to combustibles	100 feet	2" larger than ID See note 5	Inner - .020" Aluminum Outer - .021" Galvanized	Screws	MH6357	CMH1276
Oval Type B Vent 4" and 5"	2" x 4" & 2" x 6" stud wall and 1 inch to combustibles	See Note 3	2 ½" x 7 ¼" 3 ⅛" x 10 ⅞"	Inner - .012" Aluminum Outer - .018" Galvanized	Button Lock	MH6357	CMH1276
Oval Type B Vent 6"	2" x 6" stud wall and 1 inch to combustibles	See Note 3	3 ¼" x 12"	Inner - .012" Aluminum Outer - .018" Galvanized	Button Lock	MH6357	CMH1276
Type B Vent 3" to 6" Round Liner	0"/Masonry	50 feet	⅝" larger than ID	Inner - .012" Aluminum Outer - .018" Galvanized	DuraLock	MH14420 MH6357	CMH1407
DuraFlex AL Gas Relining 3" to 6"	0"/Masonry	50 feet	¼" larger than ID	.010" Aluminum Flex	Screws DuraLock	MH14420	--
DuraConnect 3" to 6"	1 inch to combustibles	See Note 4	¼" larger than ID	.010" Aluminum Flex .018" Galvalume	DuraLock	MH14089	--
DuraConnect II 3" to 6"	1 inch to combustibles	See Note 4	¼" larger than ID	.010" Aluminum Flex .018" Galvalume	DuraLock	MH14089	--

NOTES

1. Clearance to combustibles is the air space between vent and combustibles.

2. Maximum height varies with equipment over 50', for taller applications refer to SDV sizing handbook (L202). 14"-16" Pipe require screws.

3. When oval is used on wall furnaces, minimum height required from bottom of furnace to cap is 12', minimum 16" stud space.

4. Limited by sizing tables.

5. 18" pipe OD is one inch larger than ID and 20" - 30" OD is 2" greater than ID.