

Model R

Type B Gas Vent

Large Diameter

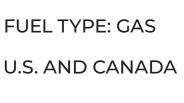






TABLE OF CONTENTS

System Design and Installation Guides	3
Typical Selkirk Type B Gas Vent Installations	4
Introduction	5
Lengths	6
Adjustable Length	7
Elbow and Tees.	8-9
Rain Cap	9
Connector and Increaser	12
Supports	13-14
Flashings and Storm Collars	14-15
Tables	16

System Design and Installation Guides

Before laying out a gas vent system for any gas appliance, the installer should first consult the local code and the appliance manufacturer's installation requirements. Only then should you pick components and design the vent system. Selkirk offers pipe sizes and adjustable components to provide maximum design flexibility.

TYPE B

Selkirk Type B Gas Vent (Sizes 10" through 30" round) may be installed with the following minimum clearance to combustibles:

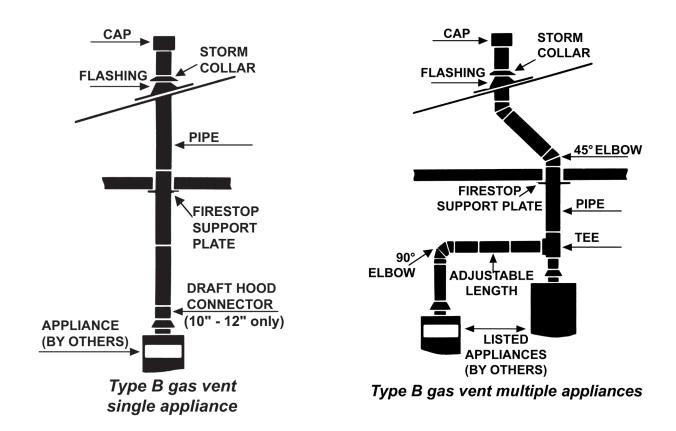
- US clearance to combustible all diameters = 1"
- Canada clearance to combustibles: 10" to 22"= 1" 24" to 30"= 2"

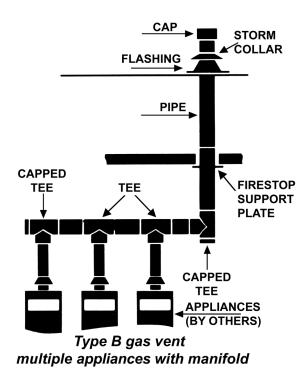
To graphically illustrate the use of Model R components in typical installations, we offer the diagrams on the next page.

To guide you in these and other installations, the following general rules should be followed.

- 1. Provide adequate air supply. Remember, you must meet local code minimum requirements for both combustion air and draft hood dilution air.
- 2. Attach vent to appliance's draft hood or attachment collar with sheet metal screws and terminate the vent at least 5 feet above the draft hood. See Gas Vent Termination Table on page 16 for required height above roof.
- 3. One gas vent may serve more than one gas appliance. Prudent advance planning (see diagrams on next page) can save you time.
- 4. Keep offsets and lengths of laterals to a minimum to reduce vent resistance.
- 5. Strap the vent securely in position, always maintaining appropriate clearance to combustibles. Firestops should be used where vents pass through floors, walls, or
- 6. The vent termination must be securely guyed or braced if it extends more than 5 feet above the roof.
- 7. For long lasting durability and better appearance, all vents exposed to the weather (except caps) should be painted.
- 8. Vents installed outside of the structure reduce venting action. Such installations are not recommended.

Typical Selkirk Type B Gas Vent Installations





INTRODUCTION

Selkirk Model R Large Diameter Type B Gas Vent was designed with the installer in mind and to endure the elements. Lightweight construction with a small footprint, Selkirk Model R will deliver when space is tight but performance is essential. Easy to connect and assemble, you can count on a secure fit when installing Selkirk Model R.

Selkirk's Model R Type B Gas Vent is listed and approved by UL for residential, commercial, and industrial applications. Selkirk Model R provides a continuous passageway from a Category 1 gas appliance, such as water heaters, boilers, and furnaces, to the termination of the vent above the roof of a structure.

Some of the safety features within Model R includes:

- ullet Double wall construction with 1/2" air space
- Clearance to combustible standards of:
- 1" in the United States for all diameters
- 1" in Canada for diameters 10" to 24"
- 2" in Canada for diameters 26" to 30"
- Galvanized steel outer wall construction for exceptional corrosion resistance *exterior applications must be painted in Canada*
- Aluminum inner wall construction to keep flue gases hot





Model R is to be installed in single and multi-story buildings in accordance with the following Natural Gas & Propane Codes:

USA: NFPA 54

CANADA: CAN/CSA B149.1 & .2

Selkirk Model R is accepted by: AGA, NFPA, HUD, NBC, UBC



Why Selkirk Model R?

Lightweight

We keep the connections clean to reduce the weight of the pipe making installation a SNAP (twist-snap that is).

Smaller footprint

Clean connections coupled with a ½" air space tighten the diameter of the pipe to create a solid connection suitable for tight spaces.

Easy to connect

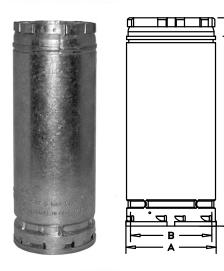
Model R's snap lock coupling system creates a secure, confident connection. Simply align the seams, twist, and SNAP - ready to go!

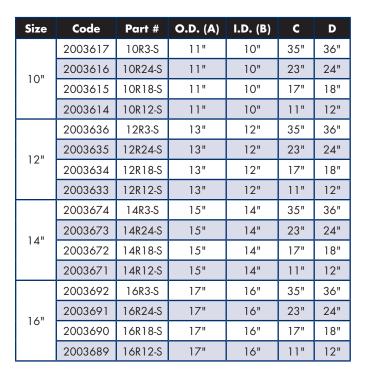
Backed by an exceptional warranty

We are so confident in Selkirk Model R's ability to satisfy, we've backed it by the industry's finest warranty, the Smart Choice Warranty.

Lengths

ROUND PIPE





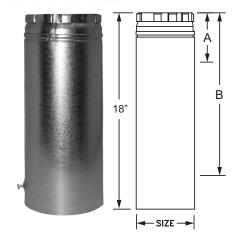
Easy to assemble and can be combined to obtain the required installation height. To calculate installed height, deduct 1" for each joint.

	Size	Code	Part #	O.D. (A)	I.D. (B)	C	D
		2003710	18R3-S	19"	18"	35"	36"
	101	2003709	18R24-S	19"	18"	23"	24"
	18"	2003708	18R18-S	19"	18"	1 <i>7</i> "	18"
		2003707	18R12-S	19"	18"	11"	12"
		2003728	20R3-S	21"	20"	35"	36"
	00"	2003727	20R24-S	21"	20"	23"	24"
	20"	2003726	20R18-S	21"	20"	1 <i>7</i> "	18"
		2003725	20R12-S	21"	20"	11"	12"
		2003746	22R3-S	23"	22"	35"	36"
	00"	2003745	22R24-S	23"	22"	23"	24"
	22"	2003744	22R18-S	23"	22"	1 <i>7</i> "	18"
		2003743	22R12-S	23"	22"	11"	12"
		2003764	24R3-S	25"	24"	35"	36"
	0.4"	2003763	24R24-S	25"	24"	23"	24"
	24"	2003762	24R18-S	25"	24"	1 <i>7</i> "	18"
		2003761	24R12-S	25"	24"	11"	12"
		2003781	26R3-S	27"	26"	35"	36"
	071	2003780	26R24-S	27"	26"	23"	24"
	26"	26" 2003779 26R18-S 27	27"	26"	1 <i>7</i> "	18"	
		2003778	26R12-S	27"	26"	11"	12"
		2003797	28R3-S	29"	28"	35"	36"
	00"	2003796	28R24-S	29"	28"	23"	24"
	28"	2003795	28R18-S	29"	28"	1 <i>7</i> "	18"
		2003794	28R12-S	29"	28"	11"	12"
		2003812	30R3-S	31"	30"	35"	36"
	20"	2003811	30R24-S	31"	30"	23"	24"
	30"	2003810	30R18-S	31"	30"	1 <i>7</i> "	18"
		2003809	30R12-S	31"	30"	11"	12"

Adjustable Length

Used in combination with a straight length of pipe to assure an exact length can be achieved.

Code	Part #	Size	Min. Length A	Max. Length B
2003618	10R18A-S	10"	3"	16"
2003637	12R18A-S	12"	3"	16"
2003675	14R18A-S	14"	5"	16"
2003693	16R18A-S	16"	5"	16"
2003711	18R18A-S	18"	5"	16"
2003729	20R18A-S	20"	5"	16"
2003747	22R18A-S	22"	5"	16"
2003765	24R18A-S	24"	5"	16"
2003782	26R18A-S	26"	5"	16"
2003798	28R18A-S	28"	5"	16"
2003951	30R18A-S	30"	5"	16"



Elbow and Tees

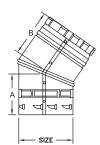
45° ELBOW



10"-12" Elbow





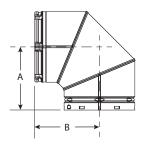


- Elbows are used to offset installation to avoid obstructions such as rafters and joists
- \bullet Size 10" through 14" adjust easily from 0° to 45°
- Sizes 16" through 30" are non-adjustable
- See the Gas Vent Offset Table on page 16

Code	Part #	Size	A	В	Adjustable
2003623	10R45-S	10"	5-7/8"	5-3/8"	0° - 45°
2003641	12R45-S	12"	6"	5-3/8"	0° - 45°
2003680	14R45-S	14"	6-5/8"	6-1/2"	0° - 45°
2003698	16R45-S	16"	7"	7"	NON
2003716	18R45-S	18"	<i>7</i> -1/2"	<i>7</i> -1/2"	NON
2003734	20R45-S	20"	8"	<i>7</i> -5/8"	NON
2003752	22R45-S	22"	8-1/2"	8-5/8"	NON
2003769	24R45-S	24"	8-5/8"	8-15/16"	NON
2003785	26R45-S	26"	9"	9"	NON
2003800	28R45-S	28"	9-1/2"	9"	NON
2004004	30R45-S	30"	10"	10"	NON

90° FIXED ELBOW





- Elbows are used to offset installation to avoid obstructions such as rafters and joists.
- Elbow is non-adjustable.

Code	Part #	Size	A	В
2008460	10R90-S	10"	10 1/8″	9 5/8"

- A tee transitions a system from horizontal to vertical orientation.
- Provides easy access for inspection and maintenance.
- Tee Cap sold separately.
- Branch and trunk diameters of the standard tee are the same size.

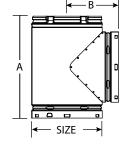
Code	Part #	Size	A	В
2003629	1 ORT-S	10"	16"	8-1/16"
2003647	12RT-S	12"	1 <i>7-</i> 9/16"	9-3/4"
2003686	14RT-S	14"	24"	11-3/4"
2003704	16RT-S	16"	26"	13"
2003722	18RT-S	18"	28-1/2"	14-1/4"
2003740	20RT-S	20"	30"	15-1/2"
2003758	22RT-S	22"	33"	16-3/4"
2003775	24RT-S	24"	36"	18"
2003791	26RT-S	26"	38"	19"
2003806	28RT-S	28"	40"	20"
2003818	30RT-S	30"	42"	21"

TEE



10"-12" Tee





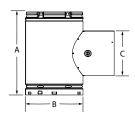
14"-30" Tee

- Used to transition system between horizontal and vertical orientation.
- Allows 8" diameter pipe to be connected to the branch of the tee.
 Branch allows 3" of adjustability.
- Branch has 3 pre-drilled holes for securing.

Code	Part #	Size	A	В	С
2008413	10RT-8A-S	10"	1 <i>4-7</i> /8"	11-1/2"	8"

ADJUSTABLE REDUCTION TEE





TEE CAP

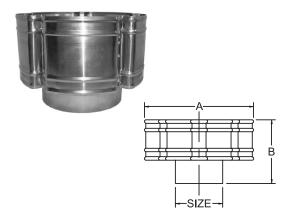


- The Tee Cap is used to close the bottom or branch of the Tee.
- Removable for easy system maintenance.

Code	Part #	Size
2003630	10RTC-S	10"
2003648	12RTC-S	12"
2003687	14RTC-S	14"
2003705	16RTC-S	16"
2003723	18RTC-S	18"
2003741	20RTC-S	20"
2003759	22RTC-S	22"
2003776	24RTC-S	24"
2003792	26RTC-S	26"
2003807	28RTC-S	28"
2003819	30RTC-S	30"

Rain Cap

UNIVERSAL CAP



- Used as a ventilation cap as well as a Type B gas vent termination.
- Protects against wind conditions that can cause gases to spill back into the structure.
- Reference the Gas Vent Termination Table on page 16, for minimum height requirement above the roof line.

Code	Part #	Size	A	В
2003822	10C-S	10"	15-3/4"	7-1/2"
2003823	12C-S	12"	19"	9"
2003682	14C-S	14"	22"	11"
2003700	16C-S	16"	25"	12"
2003718	18C-S	18"	28-1/4"	13-1/2"
2003736	20C-S	20"	31-1/2"	15"
2003754	22C-S	22"	34-1/2"	16-1/2"
2003771	24C-S	24"	37-3/4"	18"
2003787	26C-S	26"	42"	19-1/2"
2003802	28C-S	28"	44"	21"
2003814	30C-S	30"	48"	22-1/2"

Connector

- Connects Type B gas vent directly to an appliance draft hood.
- Connects single wall connector pipe to B vent.

Code	Part #	Size
2003625	1 ORDC-S	10"
2003643	12RDC-S	12"

DRAFT HOOD CONNECTOR



Increaser

INCREASER





- The increaser is used to increase the vent size
- The maximum increase is 4 sizes

Size	Code	Part #	O.D. (A)	Length
6"	6" to 10"	106370	6RV-IR10	
	7" to 10"	107370	7RV-IR10	
7"	7" to 12"	107371	7RV-IR12	
	8" to 10"	108370	8RV-IR10	
8"	8 to 12"	108371	8RV-IR12	
	8 to 14"	108372	8RV-IR14	
	10" to 16"	2003621	10RIX16-S	7"
10"	10" to 18"	2003622	10RIX18-S	7"
	12" to 14"	2003638	12RIX14-S	7"
10"	12" to 16"	2003639	12RIX16-S	7"
12"	12" to 18"	2003640	12RIX18-S	7"
	12" to 20"	2003821	12RIX20-S	7"
	14" to 16"	2003676	14RIX16-S	7"
1.48	14" to 18"	2003677	14RIX18-S	7"
14"	14" to 20"	2003678	14RIX20-S	7"
	14" to 22"	2003679	14RIX22-S	7"
	16" to 22"	2003696	16RIX22-S	7"
16"	16" to 18"	2003694	16RIX18-S	7"
	16" to 20"	2003695	16RIX20-S	<i>7</i> "
	18" to 20"	2003712	18RIX20-S	7"
18"	18" to 22"	2003713	18RIX22-S	7"
10	18" to 24"	2003714	18RIX24-S	7"
	18" to 26"	2003715	18RIX26-S	7"
	20" to 22"	2003730	20RIX22-S	7"
201	20" to 24"	2003731	20RIX24-S	7"
20"	20" to 26"	2003732	20RIX26-S	7"
	20" to 28"	2003733	20RIX28-S	7"
	22" to 24"	2003748	22RIX24-S	7"
221	22" to 26"	2003749	22RIX26-S	7"
22"	22" to 28"	2003750	22RIX28-S	7"
	22" to 30"	2003751	22RIX30-S	7"
24"	24" to 26"	2003766	24RIX26-S	7"
	24" to 28"	2003767	24RIX28-S	7"
	24" to 30"	2003768	24RIX30-S	7"
26"	26" to 28"	2003783	26RIX28-S	7"
20	26" to 30"	2003784	26RIX30-S	7"
28"	28" to 30"	2003799	28RIX30-S	7"

Supports

Hangers provide support and resupport for offsets and horizontal.

Code	Part #	Pipe Size	A
2003632	8HS-SBA-S	10"	11"
2003650	10FB-SBA-S	12"	13"

For diameters larger than 12" use Plumber's Strap.

SUPPORT BRACKET ASSEMBLY



The vent collar provides a cover for rough wall openings.

Code	Part #	Size	A	В
2003824	10RVC-S	10"	11-1/16"	20-7/8"
2003825	12RVC-S	12"	13-1/16"	22-7/8"

VENT COLLAR







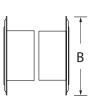
- Used to install pipe through an interior wall
- Maintains proper clearance from combustibles
- \bullet The wall thimble adjusts for various wall thicknesses from 4" to 7"

Code	Part #	Size	A	В
2003978	10RWT-S	10"	11-1/16"	20-7/8"
2003827	12RWT-S	12"	13-1/16"	22-7/8"

WALL THIMBLE



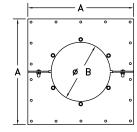




Supports Cont'd.

SUPPORT PLATE





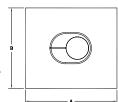
- The support plate is designed to provide strength and durability for supporting large size pipe sections
- Serves as a firestop
- Supports up to 30' of pipe

Code	Part #	Size	A	В
2003627	1 ORSP-S	10"	18"	10-5/8"
2003645	12RSP-S	12"	20"	12-5/8"
2003684	14SP-S	14"	22"	14-5/8"
2003702	16SP-S	16"	24"	16-5/8"
2003720	18SP-S	18"	26"	18-5/8"
2003738	20SP-S	20"	28"	20-5/8"
2003756	22SP-S	22"	30"	22-5/8"
2003773	24SP-S	24"	32"	24-5/8"
2003789	26SP-S	26"	34"	26-5/8"
2003804	28SP-S	28"	36"	28-5/8"
2003816	30SP-S	30"	38"	30-5/8"

Flashings and Storm Collars

STANDARD FLASHING





- Fits flat to 6/12 pitch roof
- Built with double-seamed construction for protection from leakage

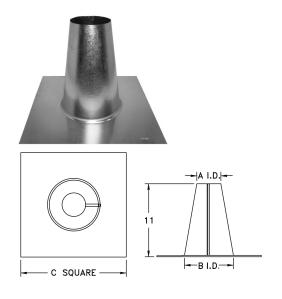
Code	Part #	Size	A	В
2003624	10RF-S	10"	24-1/8"	24-1/8"
2003642	12RF-S	12"	25-1/16"	25-1/16"
2003681	14F-S	14"	28"	28"
2003699	16F-S	16"	30-5/32"	30-1/8"
2003717	18F-S	18"	31-1/2"	31-1/2"
2003735	20F-S	20"	34"	34"
2003753	22F-S	22"	34-1/2"	34-1/2"
2003770	24F-S	24"	37"	37"
2003786	26F-S	26"	43"	43"
2003801	28F-S	28"	45"	45"
2003813	30F-S	30"	46"	46"

Flashings and Storm Collars continued

- Used on flat roofs in snow packed areas to reduce chances of snow covering the vent
- The flashing with a tall cone fits flat to 1/12 roof pitches

Code	Part #	Size	A I.D.	B I.D.	С
2003631	10RFT-S	10"	11-1/8"	16"	24-1/8"
2003649	12RFT-S	12"	13-1/8"	16"	24-1/8"
2003688	14FT-S	14"	15-9/16"	19-5/16"	27"
2003706	16FT-S	16"	1 <i>7-</i> 9/16"	19-5/16"	30"
2003724	18FT-S	18"	19-9/16"	23-9/16"	32-5/16"
2003742	20FT-S	20"	21-9/16"	23-9/16"	36"
2003760	22FT-S	22"	23-9/16"	27-9/16"	39"
2003777	24FT-S	24"	25-9/16"	27-9/16"	40"
2003793	26FT-S	26"	27-9/16"	31-9/16"	43"
2003808	28FT-S	28"	29-9/16"	31-9/16"	45"
2003820	30FT-S	30"	31-9/16"	3 <i>7</i> -1/16"	46"

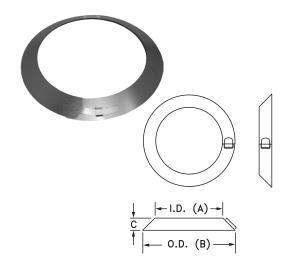
TALL CONE FLASHING



- Used to provide weatherproof seal to pipe above flashing
- Seal the inner edge with sealant against pipe

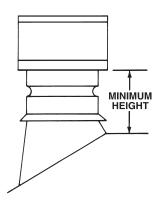
Code	Part #	Size	I.D. (A)	O.D. (B)	C
2003628	10RSC-S	10"	11"	14-1/2"	1-3/4"
2003646	12RSC-S	12"	13"	16-1/2"	1-3/4"
2003685	14SC-S	14"	15"	18-1/2"	1-15/16"
2003703	16SC-S	16"	1 <i>7</i> "	21-1/4"	2-1/8"
2003721	18SC-S	18"	19"	23-3/4"	2-5/16"
2003739	20SC-S	20"	21"	25-15/16"	2-1/2"
2003757	22SC-S	22"	23"	28-5/16"	2-11/16"
2003774	24SC-S	24"	25"	30-11/16"	1-7/8"
2003790	26SC-S	26"	27"	33-1/16"	3-1/16"
2003805	28SC-S	28"	29"	35-1/16"	3-1/4"
2003817	30SC-S	30"	31"	37-1/16"	3-7/16"

ADJUSTABLE STORM COLLAR



Tables

GAS VENT TERMINATION TABLE



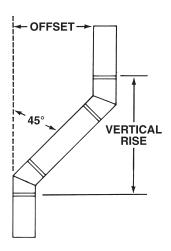
Caps in 10" through 12" sizes may be installed in accordance with the Gas Vent Termination Table if the vent is at least 8' from any vertical wall.

For installation of caps 14" and larger, or for caps that are less than 8' from a vertical wall, the cap is to be located no less than 2' above the highest point where the vent passes through the roof and at least 2' higher than any portion of a building within 10'.

10" and 12" Diameter Caps

Roof Pitch	Minimum Height
flat to 7/12	1.0 feet
over 7/12 to 8/12	1.5 feet
over 8/12 to 9/12	2.0 feet
over 9/12 to 10/12	2.5 feet
over 10/12 to 11/12	3.25 feet
over 11/12 to 12/12	4.0 feet
over 12/12 to 14/12	5.0 feet
over 14/12 to 16/12	6.0 feet
over 16/12 to 18/12	7.0 feet
over 18/12 to 20/12	7.5 feet
over 20/12 to 21/12	8.0 feet

GAS VENT OFFSETS TABLE



Note: The vertical rise can also be closely estimated by adding one "A" and one "B" dimension to Maximum Offset figures. (See page 8 for "A" and "B" dimensions of Round Adjustable 45° Elbows.)

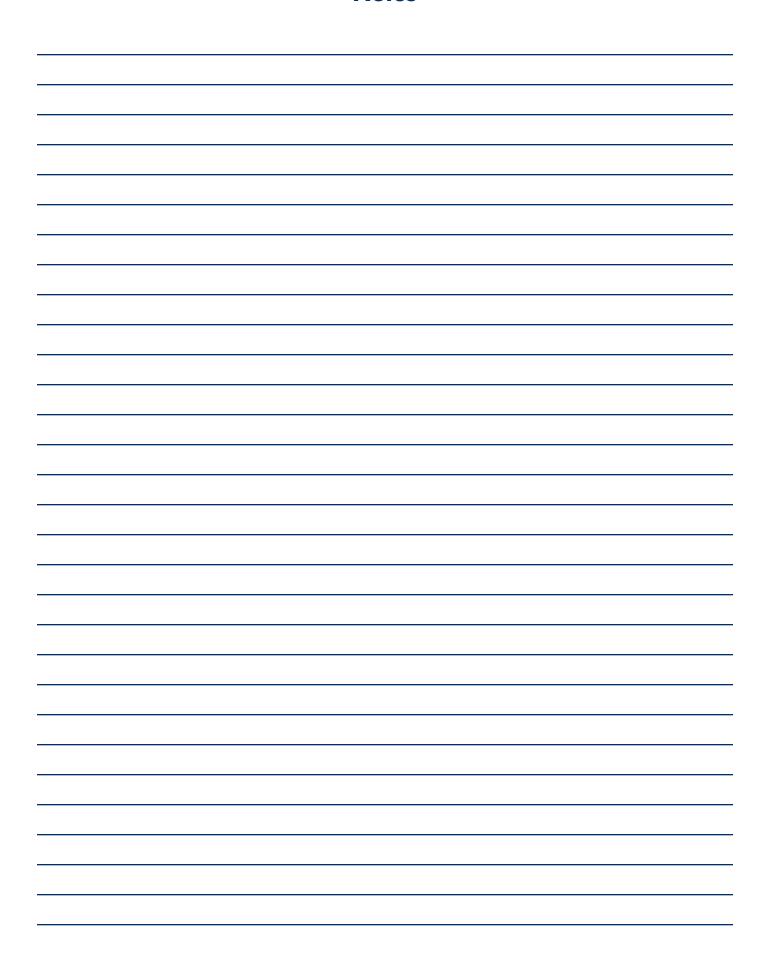
This table is used to determine the offset produced by two Selkirk 45° elbows set at the maximum angle of 45°. Also shown are the offsets produced by introducing various lengths between the two elbows.

Maximum Offset in Inches

Vent Size	With Two 45° Elbows Only	One 12" Length	One 18" Length	One 24" Length	One 3' Length
10"	7-1/4"	15"	19-1/4"	23-1/2"	32"
12"	7-1/4"	15"	19-1/4"	23-1/2"	32"
14"	8-1/2"	16-1/4"	20-1/2"	24-3/4"	33-1/4"
16"	9-1/4"	17"	21-1/4"	25-1/2"	34"
18"	10"	1 <i>7</i> -3/4"	22	26-1/4"	34-3/4"
20"	10-1/4"	18"	22-1/4"	26-1/2"	35"
22"	10-1/4"	18"	22-1/4"	26-1/2"	35"
24"	11-1/4"	19"	23-1/4"	27-1/2"	36"
26"	12"	19-3/4"	24	28-1/4"	36-3/4"
28"	12-3/4"	20-1/2"	24-3/4"	29"	37-1/2"
30"	13-1/2"	21-1/4"	25-1/2"	29-3/4"	38-1/4"

Notes

Notes





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Customer Service and Support:		Manufacturing & D	Distribution Centers:
Airmate (USA)		CANADA	
Airmate (CAN)	888.735.5475	Nobel, ON	Manufacturing
		Laval, QC	Manufacturing
Ameriflow	800.252.8467	Prescott, ON	Distribution
Amerivent (Retail)	800.252.8467	LICA	
Amerivent (Hearth & Wholesale)	800.423.4270	USA	0
Amerivent (Support)	800.748.0392	Grand Rapids, MI	Center of Excellence
		Dallas, TX	Distribution
AMPCO (USA)		Englewood, OH	Distribution
AMPCO (CAN)	888.735.5475	Huntsville, AL	Manufacturing & Distribution
		Las Vegas, NV	Distribution
Builder's Best	903.586.8283	Turner Falls, MA	Manufacturing & Distribution
Duravent	900 935 //29	Vacaville, CA	Manufacturing
Duraverit	000.055.4423		
Hart & Cooley	800.433.6341	MEXICO	
Hart & Cooley (Support)		Ojinaga, MX	Manufacturing
• • • • • •		Mexicali, MX	Manufacturing
Heatfab (USA)	800.772.0739		
Heatfab (CAN)	800.848.2149	Corporate Headqu	arters:
Lima	800.423.4270	Duravent Group 28 W. Adams, Suite	e 1810
Milcor	800.774.5240	Detroit, MI 48226 Tel: 800.835.4429	
Portals Plus	800.774.5240	Email: info@durav www.duraventgro	
RPS	800.624.8642		
Security Chimney (USA)	800.361.4909		
Security Chimney (CAN)	800.667.3387		
Selkirk (USA) Residential	800.992.8368		
Selkirk (USA) Commercial			
Selkirk (USA) Support			
Selkirk (CAN)	888.735.5475		





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