


# Models PS/IPS

Stainless Steel Double Wall  
Positive Pressure Piping Systems



Selkirk Metalbestos® Models PS and IPS are modular, prefabricated piping systems which embody flanged joints designed for both quick assembly and pressure-sealing capabilities.

## FEATURES

- *PS/IPS Boiler Breeching*
- *Chimney Stack*
- *Engine Exhaust*
- *PS/IPS Grease Duct*
- *Food Service Venting*



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## U.S. PATENTS

Selkirk Metalbestos invented the Model PS concept (flanged end, welded tube, V band) over 25 years ago and was granted the following patents.

**U.S. patents: 3902744, 4029343, 4029344**

## UNDERWRITERS LABORATORIES LISTINGS

Model PS and IPS in sizes 5" through 48" diameters have been tested and Listed (Safety Certified) by Underwriters Laboratories, Inc. (ULI) and bears the UL and/or c-UL logo signifying compliance with U.S. and/or Canadian standards. UL Listing product categories include:

- (USA) Grease Duct  
 Building Heating Appliance Chimney  
 (Industrial) 1400° F Chimney  
 Type L Vent (Model IPS only)
- (Canada) Grease Duct  
 540°C (1000°F) Industrial Chimney  
 760°C (1400°F) Industrial Chimney  
 UL file numbers for PS and IPS include  
 MH6673 and MH11382

## APPLICABLE MODEL PS/IPS REFERENCES

- Building Heating Appliance Chimney  
 UL103 NFPA211 NFPA31 NFPA37 ULC-S604
- 1400° Chimney  
 UL103 NFPA211 NFPA37
- Grease Duct  
 UL1978 NFPA96
- Type L Vent  
 UL641 NFPA31

## ASSOCIATIONS

Selkirk Metalbestos is proud to be an active member of the following associations:



## CODE COMPLIANCE

When installed in accordance with its installation instructions, Model PS and IPS comply with the following codes:

- NFPA (National Fire Protection Association)
- SBCCI (Southern Building Code Congress International)
- ICBO (International Conference of Building Officials)
- BOCA (Building Officials and Code Administrators)
- ICC (International Code Congress)

Model PS and IPS have been approved by the City of New York Department of Buildings, Materials and Equipment Acceptance Division under the following MEA numbers:

	Model PS	Model IPS
Building Heating Appliance Chimney	MEA 132-90M	MEA 135-90M
1400° F Chimney	MEA 133-90M	MEA 181-90M
Grease Duct	MEA 134-90M	MEA 134-90M

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# SYSTEM CONCEPT

Selkirk Metalbestos Model PS and IPS are modular, prefabricated piping systems which embody flanged joints designed for both quick assembly and pressure-sealing capabilities. They offer a combination of insulated piping components as well as the structural accessories needed for support and attachment to building structures. Expansion joints are available both in gasket designs and in pressure tight, all-welded bellows designs.

Standard gas-carrying piping parts are usable for a wide variety of applications:

- Chimneys and stacks for all types of building heating equipment.
- Chimneys for industrial ovens, furnaces, and processing equipment.
- Exhaust piping for engines or turbine units.
- Ducting in restaurants for compliance with Type 1 hood requirements.
- Ducting for heated air and combustion products.
- Ducting for light duty pollution control equipment.
- Venting for engine exhaust and other shipboard systems.
- Venting for offshore drilling rigs.

## Complete Line of Fittings

Model PS and IPS are available in eighteen sizes, from 5" I.D. to 48" I.D. Fittings include various elbows, tees, supports and terminations, as well as a variety of accessory fittings designed to make installation simple and quick.

Each component is shipped complete and ready for installation. Each ordered part includes Inner Vee Bands, Outer Channel Bands and all the necessary hardware.

All items included with each order are listed in this catalog under the part description.

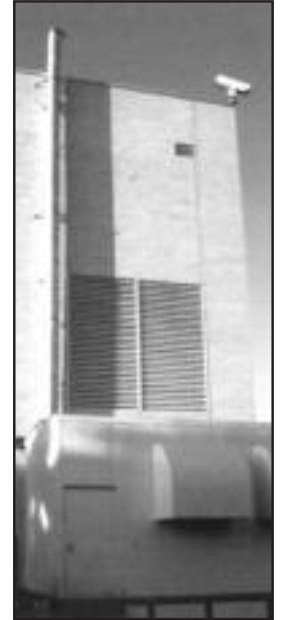


## Exceeding the Requirements

Selkirk Metalbestos, inventors of the positive pressure system concept, far exceeds the requirements of codes and other manufacturers. Results of our testing programs illustrate this fact.

## Leak Tests

Selkirk Metalbestos conducted system pressure testing against leakage in the presence of UL inspectors, and results of these tests are impressive. Using the OSHA occupation standard-of-leakage rate of 50 parts per million over an eight hour period as criterion for acceptance, Selkirk was tested to a leakage rate of only .144 parts per million, or three-tenths of one percent (.3%) of the maximum allowable leakage.



## Seismic Tests

We further demonstrated the superiority of the Model PS and IPS concept by conducting seismic load tests. These tests proved the structural integrity of our products under severe stress by showing that a guyed stack measuring 20 inches in diameter and exceeding 10 feet above the guying location (installed in strict accordance with the UL103 Listing) could withstand the rigors of all Seismic Zones.

## Structural Tests

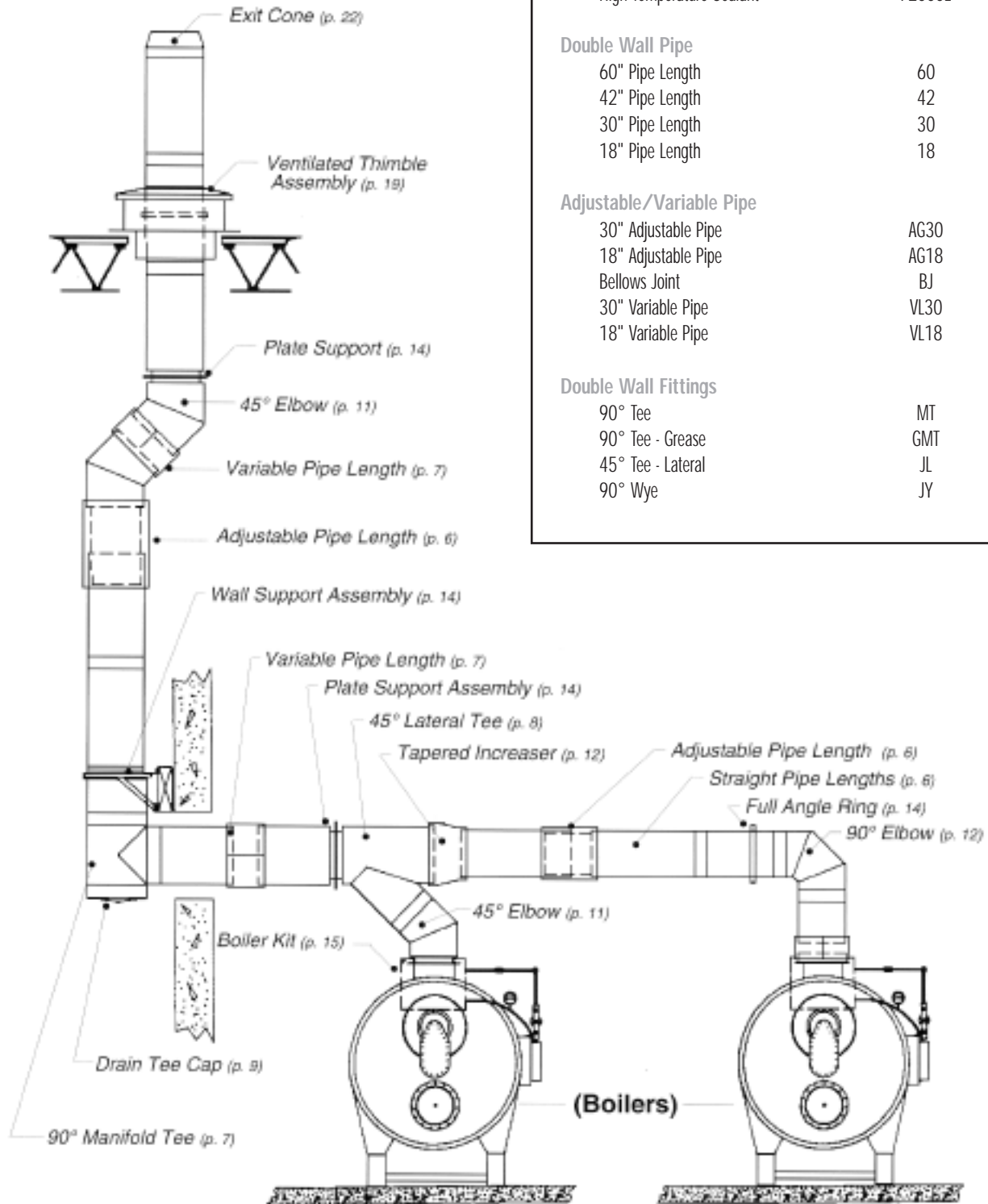
Selkirk Metalbestos recently tested for greater freestanding limits (termination height above a guide point). These tests, simulating stack performance under 110 mph wind conditions, again demonstrated the superiority of Selkirk Metalbestos products.



## Skin Temperature Rise Tests

Among other things, UL103 covers the temperature rise limits of the surrounding combustible materials in an unenclosed chimney installation and it defines the test set-up to measure the actual temperature rise of those materials at the OEM recommended clearances. Our published Model IPS skin temperatures were obtained during these tests.

# GUIDE TO COMPONENT PARTS

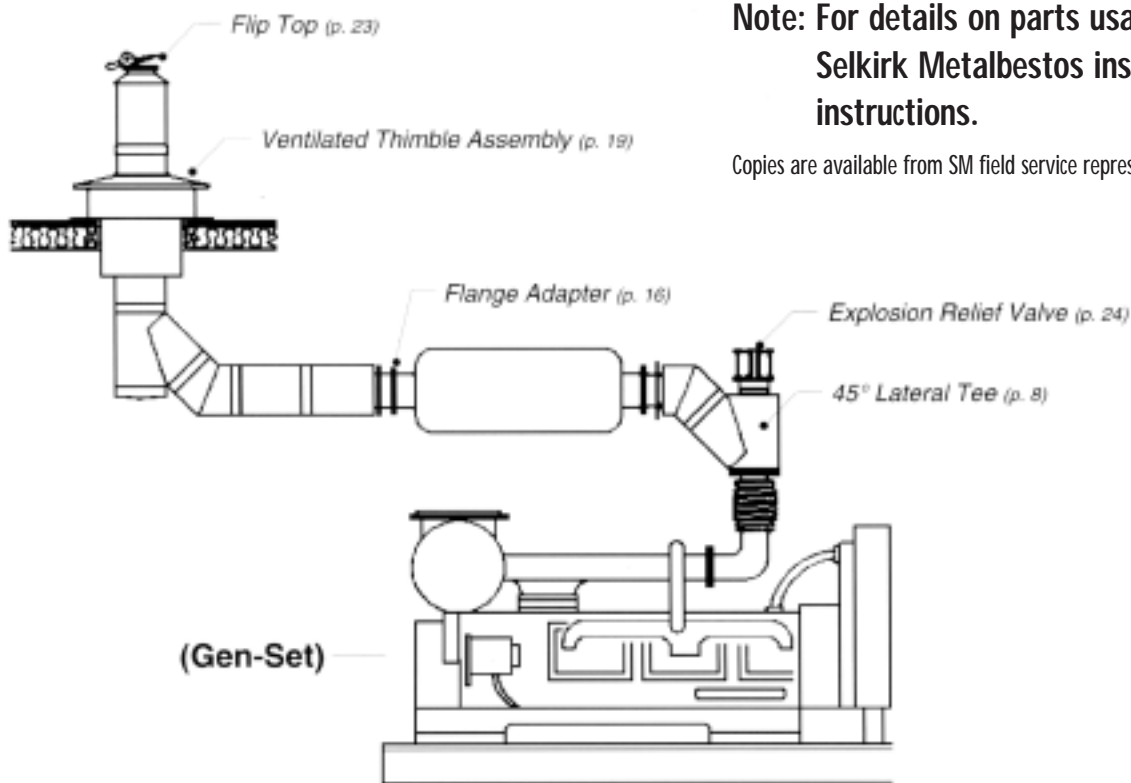


Product	Code	Page
<b>Joint Assembly Parts</b>		
Vee Band	VB	5
Overlapping- Vee Band	OVB	5
Channel Band	CB	5
Half Channel Band	HCB	5
Low Temperature Sealant	P600	5
High Temperature Sealant	P2000E	5
<b>Double Wall Pipe</b>		
60" Pipe Length	60	7
42" Pipe Length	42	7
30" Pipe Length	30	7
18" Pipe Length	18	7
<b>Adjustable/Variable Pipe</b>		
30" Adjustable Pipe	AG30	7
18" Adjustable Pipe	AG18	7
Bellows Joint	BJ	8
30" Variable Pipe	VL30	8
18" Variable Pipe	VL18	8
<b>Double Wall Fittings</b>		
90° Tee	MT	8
90° Tee - Grease	GMT	9
45° Tee - Lateral	JL	9
90° Wye	JY	10

# GUIDE TO COMPONENT PARTS

Product	Code	Page
<b>Double Wall Fittings (cont)</b>		
Drain Tee Cap	TC	10
Clean Out Tee Cap	TCN	11
15° Elbow	EL15	11
30° Elbow	EL30	12
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Step Increaser	OS	14
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<b>Support/Guide Accessories</b>		
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Wall Support Assembly	WA	15
Wall Guide Assembly	WG	16
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<b>Connection Accessories</b>		
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Product	Code	Page
<b>Roof Penetrations</b>		
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Stack Cap	SK	23
Exit Cone	EC	23
Flip Top	FL	24
Miter Cut	MC	24
<b>Miscellaneous</b>		
Explosion Relief Valve	ER	25
Guy Section	GS	25
Guy Tensioner	GT	25



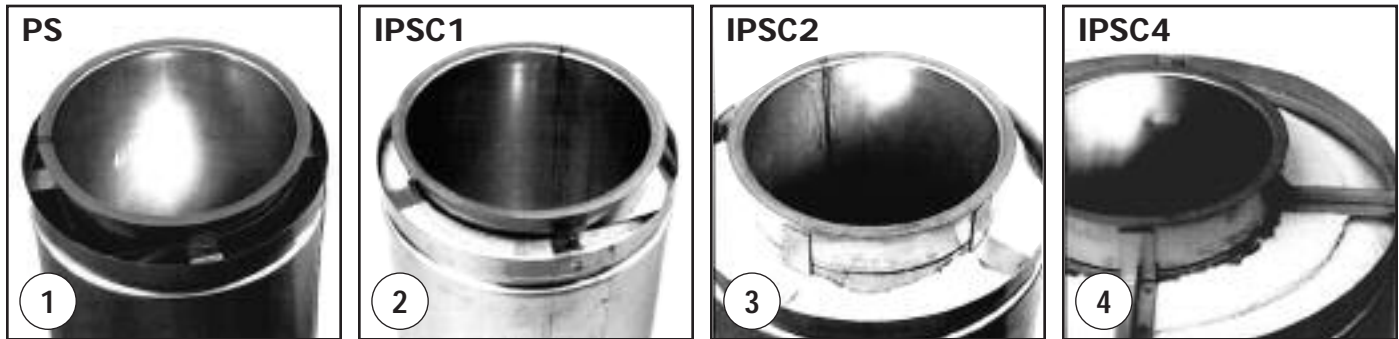
**Note: For details on parts usage, refer to the Selkirk Metalbestos installation instructions.**

Copies are available from SM field service representatives and regional offices.



# PRODUCT IDENTIFICATION

## Model PS vs. Model IPS



Fiber insulation increases the diameter of the outer wall on Model IPSC2 and IPSC4 pipe and fittings. Shown in this sequence is the same 8-inch diameter inner pipe. (Photo 1) Without insulation the outside diameter of the pipe is 10-inches. (Photo 2) This is also true of the same pipe with a 1-inch layer of insulation. (Photo 3) However, the same 8-inch pipe with 2-inch insulation results in an outside diameter of 12 inches. (Photo 4) Adding 4 inches of fiber insulation makes the diameter of the outer wall 16 inches.

## Understanding Product Codes and Part Numbers

All parts manufactured by Selkirk Metalbestos are identified by a series of numbers and letters which describe their makeup and function.

Here is how to interpret the Part Number designation for Model PS and IPS products.

1. It begins with the pipe or fitting's Internal Diameter (in inches) such as 8, 22, 36, etc.
2. This is followed by the *Model* designation, P for air-insulated (Model PS), or IP for parts that are fiber insulated (Model IPSC1, C2 or C4).
3. Next, is the product's Material designation, such as 316 or 304/304. The first item indicates the makeup of the inner liner, while the second half indicates the material content of the outer wall, if stainless. If aluminized outer, the Part Number indicates inner material only.
4. Then, following a long dash, the product's Code name is listed, such as AG30, JY, or MVT. If the product is air insulated, the product identification ends with this Code.  
*(For Product Code listings, refer to page 2.)*
5. Finally, when a product is fiber insulated, a designation is added at the end to indicate *Insulation Thickness*. C1 means a thickness of 1-inch; C2, 2-inches; and C4, 4-inches.  
*(For comparison, see photos above.)*

Thus, the Ordered Part Number for a 30-inch Adjustable Pipe, with a 6-inch I.D., made of 304 Stainless Steel inner and Aluminized Steel outer, packed with 2-inch fiber insulation, is listed:

**6IP304- AG30C2\***

\* **Note:** For products with reduction or increaser parts, the Part Number changes as follows:

MT and JL - Diameter of Body listed in front of Model P or IP.  
Diameter of Snout listed in front of Code designation

Example - For a Manifold Tee with a 42" dia. Body and 30" dia. Snout:

**42P304-30MT**

OT and OS - Smaller diameter listed first (before Model designation)  
Larger diameter listed before Code designation

Example - For a Tapered Increaser with an 8" to 16" dia. Body:

**8P304-16OT**

## Vee Band

Code: VB

Vee Band for connecting the inner 1/2 inch rolled flanges. Capable of holding 60" w.c. of pressure when properly installed.



Materials Available:

All Stainless Construction

## Overlapping Vee Band

Code: OVB

New Vee Band used in lieu of VB in high pressure/turbulent applications. Must be ordered separately.



Materials Available:

All Stainless Construction

## Channel Band

Code: CB

Used to seal the Outer Jackets of two adjoining components.



(CB height is 43/4 inches)

Materials Available:

Aluminized Steel 304 316

## Half Channel Band

Code: HCB

Used to seal the Outer Jackets of two adjoining components when the VB must remain open (such as PA's).



(HCB height is 21/16 inches)

Materials Available:

Aluminized Steel 316

### Notes:

1. 5", 6", 8", and 48" diameter VB's are a two-piece design. 10" through 36" diameter VB's are a one-piece design.
2. All OVB's are a two-piece design.
3. Model PS part used for all IPS applications.

### Notes:

1. Fiber insulation provided for IPS models.

## Low Temperature Sealant

Code: P600

## High Temperature Sealant

Code: P2000E

Depending upon application, either or both of Selkirk's low- and high-temperature sealants are applied to the VB and OVB before connecting two Inner Pipes at installation.

As designated, P600 Sealant is for 600° F. maximum flue gas temperatures, while P2000E is capable for flue gases up to 2,000° F.



### Sealant Coverage

Expected Number of Joints Sealed Per Tube

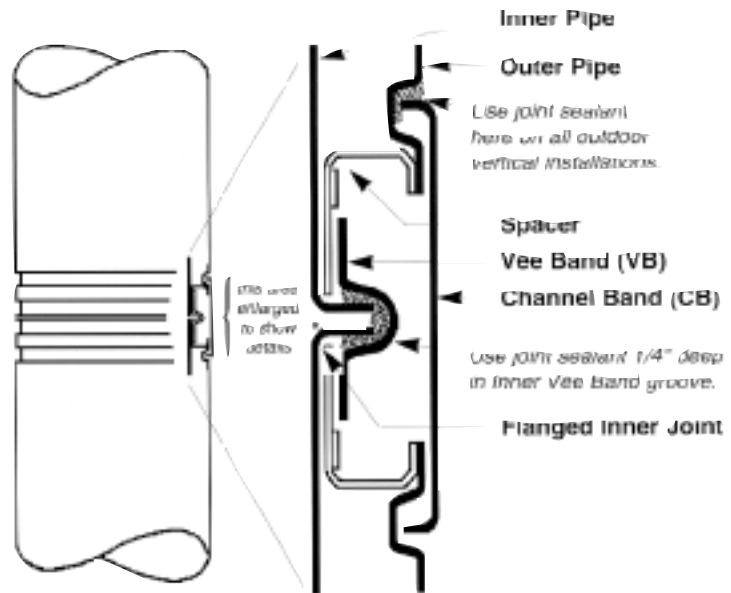
Inner Dia. (inches)	P600 & P2000E
5/6	10
8/10	9
12	8
14/16	7
18/20	6
22/24	5
26/28	4
30/32	3
36	2
42/48	1

## The Four Easy Steps to Joint Assembly

For all Selkirk Metalbestos pipe and fittings, the flange-to-flange inner pipe joints are identical for each pipe inside diameter.

Temperature of gases carried in the system determines the proper sealant used.\*

As shown in the adjoining illustration and photos, assembly is accomplished in four easy steps, using only standard tools.



\*See Grease Duct, Boiler Stack, or Engine Exhaust instructions for correct sealant usage.



### Step 1

Fill Inner Vee Band (VB) with proper sealant.



### Step 2

Position Inner VB below flange of pipe or fitting.



### Step 3

Mate flanges of two pipes. Position Inner VB over both flanges and tighten.



### Step 4

Position Outer Channel Band around outer casing. Align with pipe grooves and tighten.



## Straight Pipe Lengths

Codes: 60, 42, 30, 18



Standard pipe lengths for all Selkirk Metalbestos exhaust systems.

\*Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
60" lengths available in aluminized outers only.			

- 60" lengths available in 8" dia. through 14" dia., all products.
- 42" lengths available in:
  - 6" dia. through 32" dia., PS and IPSC1
  - 6" dia. through 28" dia., IPSC2
  - 6" dia. through 24" dia., IPSC4
- 18" & 30" lengths available in all diameters (5"-48") of all products (PS, IPSC1, IPSC2, and IPSC4).

### Ordered Part Includes:

Pipe, plus one VB and one CB.

### Notes:

1. Special pipe lengths from 5" to 60" available upon request.
2. K Factors (Where L = pipe length in feet and D = pipe diameter in inches)
  - a. For Boiler Stacks and Chimneys:

$$K = 0.30 \frac{L}{D}$$

- b. For Diesel and Turbine Exhausts and Grease Ducts:

$$K = 0.25 \frac{L}{D}$$

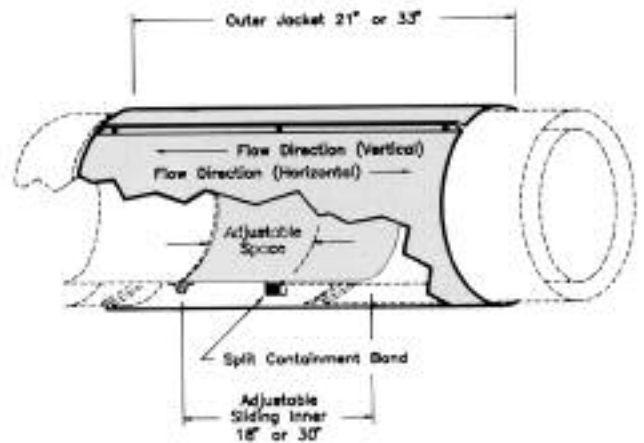
e.g. for 50 feet of 10 inch diameter pipe

$$K = 0.25 \frac{50}{10} = 1.25$$

## Adjustable Pipe Lengths

Codes: AG30, AG18

Fills odd dimensions and compensates for expansion between two fixed points on low pressure applications.



\*Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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### Ordered Part Includes:

Pipe, plus one 30" or 18" inner Slip Section, one TSU, one Packing Seal, one two-piece Compression Band, one two-piece Containment Ring, one two-piece Outer Jacket, and one VB.

Fiber insulation provided for IPS models.

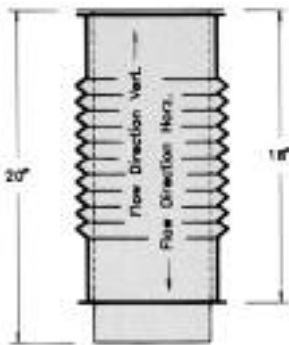
### Notes:

1. Minimum installed length is 4".
2. AG 18 not available for 28" diameter and above.
3. Maximum installed space is when the inner slip section protrudes at least 1/2 pipe diameter into the adjacent pipe.
4. Flow Resistance Factor (K) is the same as insulated pipe lengths.

## Lined Bellows Joint

Code: BJ

Provides a pressure tight expansion joint for engine exhaust and other high pressure applications.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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**Ordered Part Includes:**

BJ, plus one Liner, one Outer Jacket (IPS only), and one VB.

Fiber insulation provided for IPS models.

**Notes:**

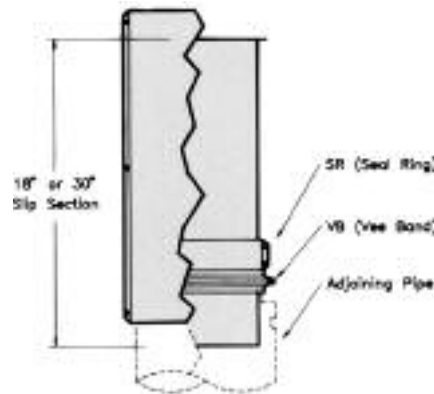
1. Optional to standard adjustable pipe lengths.
2. Liner protects Bellows but limits movement to liner expansions only.
3. Flow Resistance Factor (K) is the same as insulated pipe.
4. Part is not available above 24" diameter.

## Variable Pipe Lengths

Codes: VL30, VL18

Fills odd dimensions between standard lengths. (Not used to compensate for thermal expansion.)

- VL30 fills 4"- 26" space.
- VL18 fills 4"-14" space.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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**Ordered Part Includes:**

VL30 or VL18, plus one 30" or 18" Inner Slip Section, one two-piece Outer Jacket, one SR, and one VB.

Fiber insulation provided for IPS models.

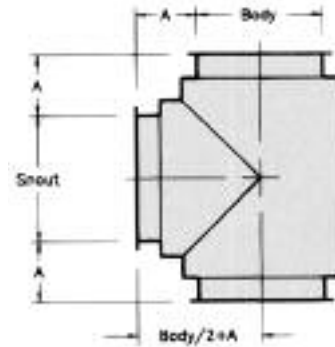
**Notes:**

1. The SR is sealed with supplied sealant, not allowing the VL to compensate for expansion.
2. Flow Resistance Factor (K) is the same as insulated pipe.

## 90° Manifold Tee

Code: MT

Joins vertical and horizontal sections to affect a change of direction. Also provides for connection of drain or inspection fittings.



Dimension A		
PS/IPSC1	IPSC2	IPSC4
4"	5"	7"

Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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**Ordered Part Includes:**

MT, plus one VB for the body diameter, one VB for the snout diameter, and one CB for the body diameter.

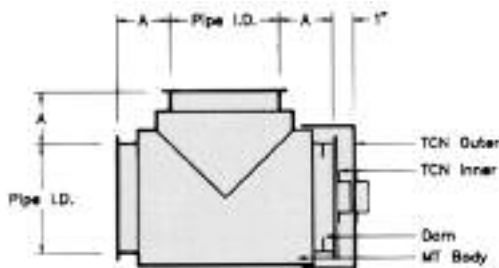
**Notes:**

1. Use TCN for clean out or inspection, or TC for drain at base of vertical stack.
2. Snout available in any standard diameter equal to or smaller than the body diameter.
3. K = 1.25 Flow Resistance Factor

## 90° Grease Duct Tee

Code: GMT

Part MT with dam added for protection against fluids running out while cleaning.



Dimension A		
PS/IPSC1	IPSC2	IPSC4
4"	5"	7"

Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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Ordered Part Includes:

GMT, plus one TCN, two VB's and one CB.

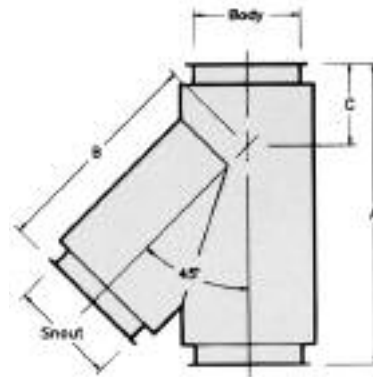
Notes:

1. K = 1.25 Flow Resistance Factor

## 45° Lateral Tee

Code:

Provides a low resistance entry into manifolds. Combine with EL45 for low resistance 90° direction change.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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Ordered Part Includes:

JL, plus one VB for the body diameter, one VB for the snout diameter, and one CB for the body diameter.

Notes:

1. Snout available in any standard diameter equal to or smaller than the body diameter.
2. K = 0.4 Flow Resistance Factor

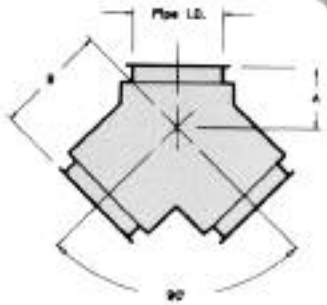
(O. D.)	Product			Dimensions		
	(pipe I. D.)			(inches)		
	PS	IPSC2	IPSC4	A	B	C
	IPSC1					
7	5	-	-	19½	13¾	5¾
8/9	6	5	-	19½	13¾	5¾
10	8	6	-	22⅞	16⅞	6¼
12	10	8	-	24⅞	19	5⅞
14	12	10	6	26⅞	21⅞	5½
16	14	12	8	29¼	23⅞	5⅞
18	16	14	10	32⅞	26¼	6⅞
20	18	16	12	35⅞	28¼	6¼
22	20	18	14	38⅞	31⅞	7⅞
24	22	20	16	43⅞	35⅞	8
26	24	22	18	43⅞	35⅞	8
28	26	24	20	49⅞	40¼	8⅞
30	28	26	22	49⅞	40¼	8⅞
32	30	28	24	55⅞	45⅞	9⅞
34	32	30	26	55⅞	45⅞	9⅞
36	-	32	28	60⅞	50⅞	10⅞
38	36	-	30	60⅞	50⅞	10⅞
40	-	36	32	69⅞	58¼	11¼
44	42	-	36	69⅞	58¼	11¼
46	-	42	-	79⅞	66⅞	13
50	48	-	42	79⅞	66⅞	13
52	-	48	-	88⅞	74¼	14⅞
56	-	-	48	88⅞	74¼	14⅞

# DOUBLE WALL FITTINGS

## 90° WYE

Code: JY

Provides low pressure drop for joining appliances in the horizontal and vertical position.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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### Ordered Part

#### Includes:

JY, plus two VB's and one CB.

#### Notes:

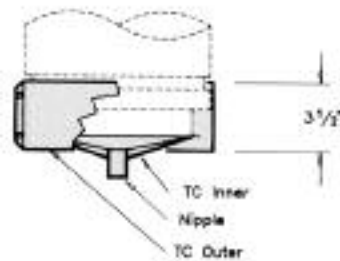
1. All openings are the same diameter.
2. Can be used with TCN to provide a single clean out toward each 90° direction change.
3. Use OT or OS as needed for smaller branch connections.
4. K = 0.6 Flow Resistance Factor

(O. D.)	Product			Dimensions	
	PS IPSC1	IPSC2	IPSC4	(inches)	
7	5	-	-	4 $\frac{5}{8}$	9
8/9	6	5	-	4 $\frac{5}{8}$	9
10	8	6	-	5 $\frac{1}{8}$	10
12	10	8	-	5	11
14	12	10	6	5 $\frac{1}{2}$	12
16	14	12	8	5 $\frac{3}{8}$	13
18	16	14	10	6 $\frac{3}{8}$	14
20	18	16	12	6 $\frac{3}{8}$	15
22	20	18	14	7 $\frac{3}{8}$	17
24	22	20	16	8	19
26	24	22	18	8	19
28	26	24	20	8 $\frac{3}{4}$	22
30	28	26	22	8 $\frac{3}{4}$	22
32	30	28	24	9 $\frac{3}{8}$	24
34	32	30	26	9 $\frac{3}{8}$	24
36	-	32	28	10 $\frac{1}{2}$	27
38	36	-	30	10 $\frac{1}{2}$	27
40	-	36	32	11 $\frac{3}{4}$	31
44	42	-	36	11 $\frac{3}{4}$	31
46	-	42	-	13	34
50	48	-	42	13	34
52	-	48	-	14 $\frac{1}{4}$	38
56	-	-	48	14 $\frac{1}{4}$	38

## Drain Tee Cap

Code: TC

Provides a drain at the base of a vertical chimney when connected to the MT or JL.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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### Ordered Part Includes:

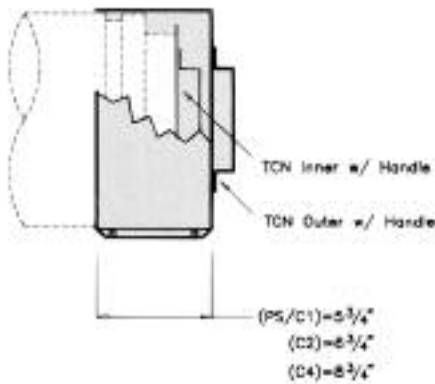
TC, plus one 1" N.P.T. Nipple (5"-20" sizes), or 2" N.P.T. Nipple (22"-48" sizes), one Inner Section, one Outer Jacket, and one VB.

Fiber insulation provided for IPS models.

## Cleanout Tee Cap

Code: TCN

Provides for cleanout at end of manifold when connected to MT or JL.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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Ordered Part Includes:

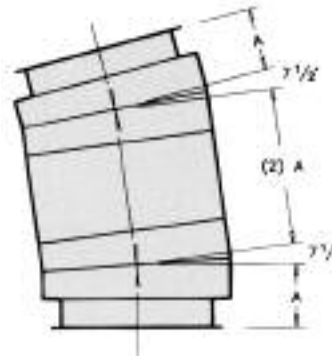
TCN, plus one Inner Section (with handle), one Outer Jacket (with handle), and one VB.

Fiber insulation provided for IPS models.

## 15° Elbow

Code: EL 15

Two-piece Elbow can establish many different degrees when combined with other standard Elbows.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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Ordered Part Includes:

Two 7 1/2° Elbows, plus two CB's, and two VB's.

Notes:

1. K = 0.06 Flow Resistance Factor

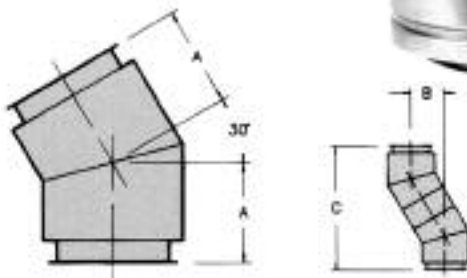
(O. D.)	Product			Dim.
	(pipe I. D.)			(inches)
	PS	IPSC2	IPSC4	A
7	5	-	-	4 7/16
8/9	6	5	-	4 7/16
10	8	6	-	4 1/4
12	10	8	-	4 5/16
14	12	10	6	7 7/16
16	14	12	8	4 1/2
18	16	14	10	4 9/16
20	18	16	12	4 5/8
22	20	18	14	4 11/16
24	22	20	16	4 3/4
26	24	22	18	4 13/16
28	26	24	20	4 7/8
30	28	26	22	4 9/16
32	30	28	24	5
34	32	30	26	5 1/16
36	-	32	28	5 1/8
38	36	-	30	5 3/16
40	-	36	32	5 1/8
44	42	-	36	5 3/8
46	-	42	-	5 1/2
50	48	-	42	5 9/16
52	-	48	-	5 1/2
56	-	-	48	5 9/16

# DOUBLE WALL FITTINGS

## 30° Elbow

Code: EL30

Used for a vertical or horizontal direction change of 30°.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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Ordered Part Includes:

EL 30, plus one CB and one VB.

Notes:

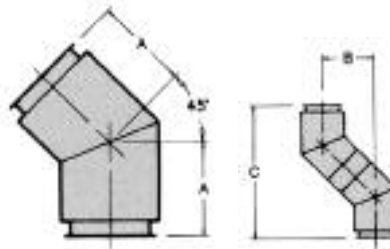
1. K = 0.12 Flow Resistance Factor

(O. D.)	Product			Dimensions		
	(pipe I. D.)			(inches)		
	PS	IPSC2	IPSC4	A	B	C
7	5	-	-	6 <sup>1</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>	22 <sup>1</sup> / <sub>8</sub>
8/9	6	5	-	6 <sup>1</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>	22 <sup>1</sup> / <sub>8</sub>
10	8	6	-	6 <sup>1</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>	23 <sup>1</sup> / <sub>8</sub>
12	10	8	-	6 <sup>1</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>	24 <sup>1</sup> / <sub>8</sub>
14	12	10	6	7 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	27 <sup>1</sup> / <sub>4</sub>
16	14	12	8	7 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	29 <sup>1</sup> / <sub>8</sub>
18	16	14	10	8 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	30 <sup>3</sup> / <sub>8</sub>
20	18	16	12	8 <sup>3</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>8</sub>	31 <sup>1</sup> / <sub>8</sub>
22	20	18	14	9 <sup>1</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>8</sub>	34 <sup>1</sup> / <sub>8</sub>
24	22	20	16	9 <sup>3</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>8</sub>	35
26	24	22	18	10 <sup>1</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>16</sub>	37 <sup>1</sup> / <sub>2</sub>
28	26	24	20	10 <sup>3</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>16</sub>	38 <sup>1</sup> / <sub>2</sub>
30	28	26	22	11	11	40 <sup>3</sup> / <sub>8</sub>
32	30	28	24	11 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>4</sub>	41 <sup>1</sup> / <sub>8</sub>
34	32	30	26	11 <sup>3</sup> / <sub>8</sub>	11 <sup>3</sup> / <sub>8</sub>	44 <sup>3</sup> / <sub>8</sub>
36	-	32	28	12 <sup>3</sup> / <sub>16</sub>	12 <sup>3</sup> / <sub>16</sub>	45 <sup>3</sup> / <sub>8</sub>
38	36	-	30	12 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>4</sub>	47 <sup>1</sup> / <sub>4</sub>
40	-	36	32	13 <sup>3</sup> / <sub>8</sub>	13 <sup>3</sup> / <sub>8</sub>	48 <sup>3</sup> / <sub>8</sub>
44	42	-	36	14	14	52 <sup>1</sup> / <sub>2</sub>
46	-	42	-	14 <sup>1</sup> / <sub>4</sub>	14 <sup>1</sup> / <sub>4</sub>	53 <sup>3</sup> / <sub>8</sub>
50	48	-	42	14 <sup>3</sup> / <sub>16</sub>	14 <sup>3</sup> / <sub>16</sub>	56 <sup>3</sup> / <sub>16</sub>
52	-	48	-	15 <sup>3</sup> / <sub>16</sub>	15 <sup>3</sup> / <sub>16</sub>	57 <sup>3</sup> / <sub>8</sub>
56	-	-	48	15 <sup>3</sup> / <sub>16</sub>	15 <sup>3</sup> / <sub>16</sub>	57 <sup>3</sup> / <sub>8</sub>

## 45° Elbow

Code: EL45

Used for a vertical or horizontal direction change of 45°.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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Ordered Part Includes:

EL45, plus One CB and one VB.

Notes:

1. K = 0.15 Flow Resistance Factor

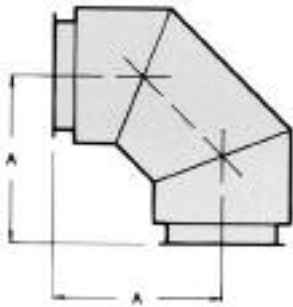
(O. D.)	Product			Dimensions		
	(pipe I. D.)			(inches)		
	PS	IPSC2	IPSC4	A	B	C
7	5	-	-	8 <sup>1</sup> / <sub>2</sub>	12	29
8/9	6	5	-	8 <sup>1</sup> / <sub>2</sub>	12	29
10	8	6	-	8 <sup>1</sup> / <sub>16</sub>	12 <sup>3</sup> / <sub>8</sub>	30 <sup>3</sup> / <sub>8</sub>
12	10	8	-	9 <sup>1</sup> / <sub>16</sub>	13 <sup>3</sup> / <sub>16</sub>	31 <sup>1</sup> / <sub>8</sub>
14	12	10	6	10 <sup>1</sup> / <sub>4</sub>	14 <sup>1</sup> / <sub>2</sub>	35
16	14	12	8	10 <sup>3</sup> / <sub>16</sub>	14 <sup>3</sup> / <sub>8</sub>	35 <sup>5</sup> / <sub>8</sub>
18	16	14	10	11 <sup>1</sup> / <sub>8</sub>	16 <sup>3</sup> / <sub>16</sub>	39 <sup>3</sup> / <sub>8</sub>
20	18	16	12	12 <sup>3</sup> / <sub>16</sub>	17 <sup>3</sup> / <sub>16</sub>	41 <sup>1</sup> / <sub>8</sub>
22	20	18	14	13	18 <sup>3</sup> / <sub>8</sub>	44 <sup>1</sup> / <sub>4</sub>
24	22	20	16	13 <sup>3</sup> / <sub>16</sub>	18 <sup>3</sup> / <sub>16</sub>	45 <sup>1</sup> / <sub>2</sub>
26	24	22	18	14 <sup>3</sup> / <sub>16</sub>	20 <sup>1</sup> / <sub>4</sub>	48 <sup>3</sup> / <sub>8</sub>
28	26	24	20	14 <sup>7</sup> / <sub>16</sub>	21 <sup>3</sup> / <sub>16</sub>	50 <sup>3</sup> / <sub>8</sub>
30	28	26	22	15 <sup>3</sup> / <sub>16</sub>	22 <sup>3</sup> / <sub>16</sub>	53 <sup>1</sup> / <sub>2</sub>
32	30	28	24	16 <sup>1</sup> / <sub>4</sub>	22 <sup>3</sup> / <sub>16</sub>	53 <sup>3</sup> / <sub>8</sub>
34	32	30	26	17	24	58
36	-	32	28	17 <sup>3</sup> / <sub>16</sub>	24 <sup>1</sup> / <sub>4</sub>	59 <sup>3</sup> / <sub>8</sub>
38	36	-	30	18 <sup>3</sup> / <sub>8</sub>	25 <sup>3</sup> / <sub>16</sub>	62 <sup>3</sup> / <sub>8</sub>
40	-	36	32	18 <sup>3</sup> / <sub>8</sub>	26 <sup>3</sup> / <sub>16</sub>	64 <sup>1</sup> / <sub>2</sub>
44	42	-	36	19 <sup>3</sup> / <sub>16</sub>	27 <sup>3</sup> / <sub>8</sub>	67
46	-	42	-	20 <sup>3</sup> / <sub>16</sub>	28 <sup>3</sup> / <sub>16</sub>	68 <sup>3</sup> / <sub>8</sub>
50	48	-	42	21 <sup>3</sup> / <sub>16</sub>	30 <sup>3</sup> / <sub>16</sub>	74 <sup>1</sup> / <sub>8</sub>
52	-	48	-	21 <sup>3</sup> / <sub>16</sub>	30 <sup>3</sup> / <sub>16</sub>	74 <sup>1</sup> / <sub>8</sub>
56	-	-	48	21 <sup>3</sup> / <sub>16</sub>	30 <sup>3</sup> / <sub>16</sub>	74 <sup>1</sup> / <sub>8</sub>



## 90° Elbow

Code: EL90

Used for a vertical or horizontal direction change of 90°.



Materials Available (shaded areas):

304/Alum

316/Alum

304/304

316/316

### Ordered Part Includes:

EL90, plus one CB and one VB.

### Notes:

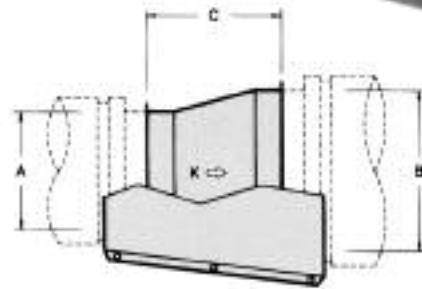
1.  $K = 0.30$  Flow Resistance Factor

(O. D.)	Product			Dim.
	PS IPSC1	IPSC2	IPSC4	(pipe I. D.) (inches)
7	5	-	-	10½
8/9	6	5	-	11½
10	8	6	-	12½
12	10	8	-	13½
14	12	10	6	14½
16	14	12	8	15½
18	16	14	10	16½
20	18	16	12	17½
22	20	18	14	18½
24	22	20	16	19½
26	24	22	18	20½
28	26	24	20	21½
30	28	26	22	22½
32	30	28	24	23½
34	32	30	26	24½
36	-	32	28	25½
38	36	-	30	26½
40	-	36	32	27½
44	42	-	36	29½
46	-	42	-	30½
50	48	-	42	32½
52	-	48	-	33½
56	-	-	48	35½

## Tapered Increaser/Reducer

Code: OT

Used when a pipe diameter change is required.



Materials Available (shaded areas):

304/Alum

316/Alum

304/304

316/316

### Dimensions:

A = Smaller Diameter

B = Larger Diameter

C = Installed Length =  $[(B-A) 2] + 2$  (see Note 1 below)

### Example:

Installed Length for 12P304-180T equals  $[(18-12)2] + 2 = 14"$ .

### Ordered Part Includes:

OT, plus one two-piece Outer Jacket, and one VB for smaller diameter.

Fiber insulation provided for IPS models.

### Notes:

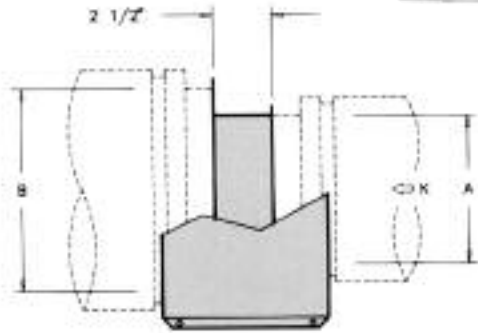
1. Installed length shall not be greater than longest available straight pipe length (see page 6) for each diameter.

2.  $K = N [1 - (A/B)^2]^2$  where  $N = 0.47$  for one step OT  
 $N = 0.53$  for two step OT

## Step Increaser/Reducer

Code: OS

Used when pipe diameter change is required in a small space.



Materials Available (shaded areas):



**Ordered Part Includes:**

OS (Inner Stepped Pipe), plus one two-piece Outer Jacket, and one VB for the smaller diameter.

Fiber insulation provided for IPS models.

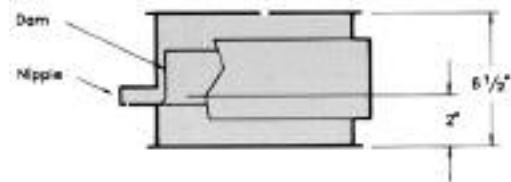
**Notes:**

1. This is a non-structural part; use only if OT will not fit within the allowable space.
2.  $K = N [1 - (A/B)^2]^2$

## Drain Section

Code: DS

Used with open stack terminations for draining off rain water from inside vertical or horizontal flue.



Materials Available (shaded areas):



**Ordered Part Includes:**

DS, plus one Drain Dam within the pipe length, one 1" Nipple, one CB, and one VB.

**Notes:**

1.  $K = 0.25$  Flow Resistance Factor

## Angle Rings

Codes: HR & FR

Used for guiding and/or supporting horizontal installations.



Half Ring (HR)



Full Ring (FR)

Materials Available:

Electroplated or Galvanized Steel

Notes:

1. Model PS part used for IPSC1 applications.

Product			Dimensions (inches) - HR				
(pipe I. D.)			Bolt Hole Circle	I.D. of Ring	No of Holes (HR)	Size of Angles	Angle of Holes
PS	IPSC2	IPSC4					
5	-	-	9	7 <sup>1</sup> / <sub>2</sub>	6	(1)	45
6	5	-	10	8 <sup>1</sup> / <sub>2</sub>	6	(1)	45
8	6	-	12	10 <sup>1</sup> / <sub>2</sub>	6	(1)	45
10	8	-	14	12 <sup>1</sup> / <sub>2</sub>	6	(1)	45
12	10	6	16	14 <sup>1</sup> / <sub>2</sub>	6	(1)	45
14	12	8	18	16 <sup>1</sup> / <sub>2</sub>	6	(1)	45
16	14	10	20	18 <sup>1</sup> / <sub>2</sub>	6	(1)	45
18	16	12	22	20 <sup>1</sup> / <sub>2</sub>	6	(1)	45
20	18	14	24	22 <sup>1</sup> / <sub>2</sub>	6	(1)	45
22	20	16	26	24 <sup>1</sup> / <sub>2</sub>	10	(2)	22.5
24	22	18	28	26 <sup>1</sup> / <sub>2</sub>	10	(2)	22.5
26	24	20	30	28 <sup>1</sup> / <sub>2</sub>	10	(2)	22.5
28	26	22	32	30 <sup>1</sup> / <sub>2</sub>	10	(2)	22.5
30	28	24	34	32 <sup>1</sup> / <sub>2</sub>	10	(2)	22.5
32	30	26	36	34 <sup>1</sup> / <sub>2</sub>	10	(2)	22.5
-	32	28	38	36 <sup>1</sup> / <sub>2</sub>	10	(2)	22.5
36	-	30	40	38 <sup>1</sup> / <sub>2</sub>	10	(2)	22.5
-	36	32	42	40 <sup>1</sup> / <sub>2</sub>	10	(2)	22.5
42	-	36	46	44 <sup>1</sup> / <sub>2</sub>	10	(2)	22.5
-	42	-	48	46 <sup>1</sup> / <sub>2</sub>	10	(2)	22.5
48	-	42	52	50 <sup>1</sup> / <sub>2</sub>	10	(2)	22.5
-	48	-	54	62 <sup>1</sup> / <sub>2</sub>	10	(2)	22.5
-	-	48	58	66 <sup>1</sup> / <sub>2</sub>	10	(2)	22.5

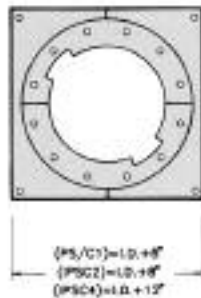
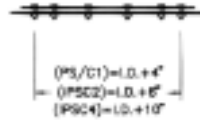
(1) Size of Angles = 1<sup>1</sup>/<sub>2</sub> x 1<sup>1</sup>/<sub>2</sub> x <sup>3</sup>/<sub>16</sub>

(2) Size of Angles = 2 x 2 x <sup>3</sup>/<sub>16</sub>

## Plate Support Assembly

Code: PA

Used for supporting the load of the stack, and as a fixed point anchor near fittings.



Materials Available:

Electroplated or Galvanized Steel

Ordered Part Includes:

Split (square) plate, one CF, two HCB's and hardware.

Plate Thickness:

0.188" for sizes 6" through 20" diameters  
 0.250" for sizes 22" through 36" diameters  
 0.375" for sizes 42" through 48" diameters

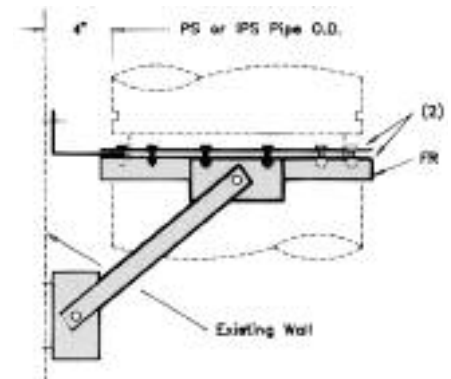
Notes:

- Two 316 Stainless Steel HCB's should be ordered separately for stainless steel outer projects.
- PA fabricated from 304 Stainless Steel is available upon request and is non-returnable. Allow extra manufacturing time.

## Wall Support Assembly

Code: WA

"Limited" support assembly with factory-supplied bracing.



Materials Available:

Electroplated or Galvanized Steel

Ordered Part Includes:

One FR, two CF's, two HCB's, five brackets, two struts, and all hardware except connection at wall.

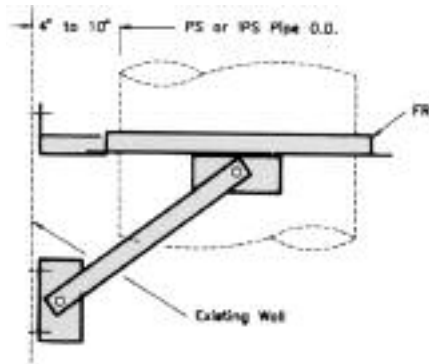
Notes:

- Assembly will maintain a 4" clearance between pipe O.D. and supporting structure.

## Wall Guide Assembly

Code: WG

Same use as FIR, but with factory-supplied bracing.



Materials Available:

Electroplated or Galvanized Steel

### Ordered Part Includes:

One FR, four struts, and six brackets.

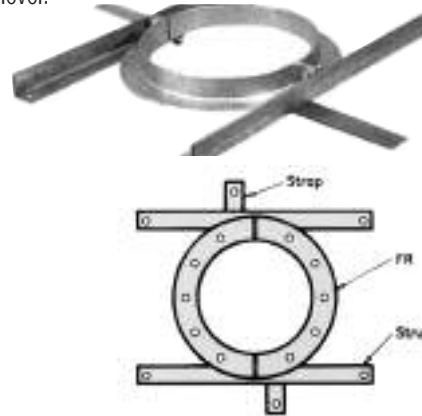
### Notes:

1. Assembly will maintain a 4" to 10" clearance between pipe O.D. and supporting structure.
2. Model PS part used for IPSC1 applications.

## Floor Guide Assembly

Code: FG

Same use as FR, but with factory-supplied bracing for use at floor level.



Materials Available:

Electroplated or Galvanized Steel

### Ordered Part Includes:

One FR, two struts, and two straps.

### Notes:

1. Maximum hole through floor should not exceed the pipe O.D. plus 8".
2. Model PS part used for IPSC1 applications.

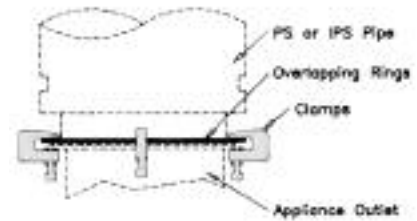
Pipe I.D. (inches)			Material (inches)	
PS	IPSC2	IPSC4	Strut Length	Strut Size
5	—	—	17½	(1)
6	—	—	18	(1)
—	5	—	19½	(1)
8	6	—	21	(1)
—	—	5	22½	(1)
10	8	—	24	(1)
12	10	6	27	(1)
14	12	8	29	(2)
16	14	10	30	(2)
18	16	12	32	(2)
20	18	14	33	(2)
22	20	16	34½	(3)
24	22	18	36	(3)
26	24	20	37	(3)
28	26	22	38	(3)
30	28	24	39½	(3)
32	30	26	41	(3)
—	32	28	42½	(3)
36	—	30	44	(3)
—	36	32	46	(3)
42	—	—	48	(3)
—	42	36	50	(3)
—	—	42	52	(3)
48	—	—	53	(3)
—	48	—	54	(3)
—	—	48	58	(3)

- (1) Steel Angle, 1½" x 1½" x ¾"
- (2) Steel Angle, 1¾" x 1¾" x ¾"
- (3) Steel Angle, 2" x 2" x ¾"

## Flanged Boiler Kit

Code: BK

Used for connecting piping to an appliance having a flanged outlet.



Materials Available:

Electroplated or Galvanized Steel

### Ordered Part Includes:

Two overlapping rings, hardware and required "C" type clamps (see table below).

### Notes:

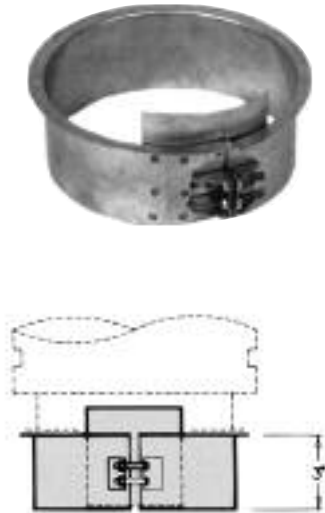
1. Model PS part used for all IPS applications.

Pipe Size (inches)	# Changes	Ring Width (inches)	Ring I.D. (inches)
5	4	1½	5¾
6	4	1½	6¾
8	4	1½	8¾
10	5	1½	10¾
12	6	1½	12¾
14	7	1½	14¾
16	8	1½	16¾
18	9	1½	18¾
20	10	1½	20¾
22	11	1½	22¾
24	12	1½	24¾
26	13	1½	26¾
28	14	1½	28¾
30	15	1½	30¾
32	16	1½	32¾
36	18	1½	36¾
42	21	1½	42¾
48	24	1½	48¾

## Seal Ring

Code: SR

Used for non-welded attachment to appliances having an unflanged or collar outlet.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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**Ordered Part Includes:**

SR, plus one VB and hardware.

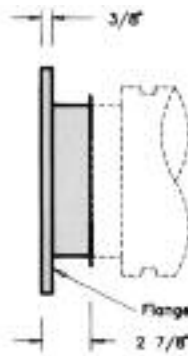
**Notes:**

1. Model PS part used for all IPS applications.

## Flange Adapter

Code: FD

Provides a rigid connection to a 125 lb. or 150 lb ANSI flange.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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**Ordered Part Includes:**

Flange welded to TS, one CB, and one VB.

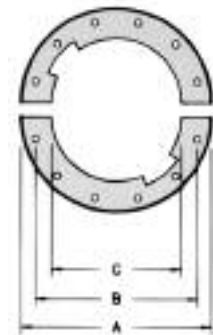
Fiber insulation provided for IPS models.

Product	Dimensions (inches)				
	Pipe I.D.	No. of Bolts	Bolt Hole Dia.	Flange O.D.	Bolt Circle
5	5	8	7/8	10	8 1/2
6	6	8	7/8	11	9 1/2
8	8	8	7/8	13 1/2	11 3/4
10	10	12	1	16	14 1/4
12	12	12	1	19	17
14	14	12	1 1/8	21	18 3/4
16	16	16	1 1/8	23 1/2	21 1/4
18	18	16	1 1/4	25	22 3/4
20	20	20	1 1/4	27 1/2	25
22	22	20	1 1/2	29 1/2	27 1/4
24	24	20	1 1/2	32	29 1/2
28	28	28	1 1/2	36 1/2	34
30	30	28	1 1/2	38 1/2	36
32	32	28	1 1/2	41 1/4	38 1/2
36	36	32	1 1/2	46	42 3/4
42	42	36	1 1/2	53	49 1/2
48	48	44	1 1/2	59 1/2	56

## Clamp Flange

Code: CF

Can be used as an attachment to flanged equipment (also part of PA and WA).



A = Flange I.D.
PS/IPSC1 = I.D. + 5"
C2 = I.D. + 7"
C4 = I.D. + 11"
B = Bolt Hole Circle
PS/IPSC1 = I.D. + 4"
C2 = I.D. + 6"
C4 = I.D. + 10"
C = Flange I.D.
PS/IPSC1 = I.D. + 1/2"
C2, C4

Materials Available:

Electroplated or Galvanized Steel
-----------------------------------

**Ordered Part Includes:**

Two half clamp flange plates.

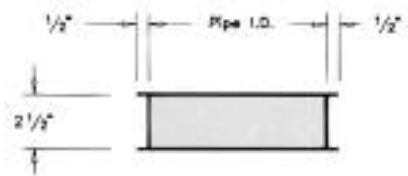
**Notes:**

1. 0.139" minimum thickness for sizes 5" to 8" diameters.
2. 0.188" minimum thickness for sizes 10" through 36" diameters.
3. 0.375" minimum thickness for sizes 42" and 48" diameters.
4. Model PS part used for IPSC1 applications.

## Flanged Hood Transition

Code: TS

Used on standard appliances such as kitchen hood exhausts. Flanged at both ends.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
----------	----------	---------	---------

Ordered Part Includes:

TS, plus one CB and one VB.

Fiber insulation provided with IPS models.

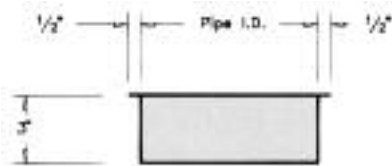
**Notes:**

1. Can be used for welding to equipment or transitions fabricated in the field.

## Unflanged Hood Transition

Code: TSU

Used on standard appliances such as kitchen hood exhausts. Flanged at one end.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
----------	----------	---------	---------

Ordered Part Includes:

TSU, plus one CB and one VB.

Fiber insulation provided with IPS models.

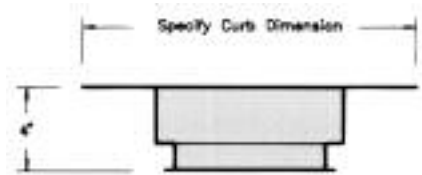
**Notes:**

1. Can be used for welding to equipment or transitions fabricated in the field.

## Fan Adapter

Code: FA

Used for connection to an "up-blast" kitchen exhaust fan.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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Ordered Part Includes:

FA, plus one VB and one CB.

**Notes:**

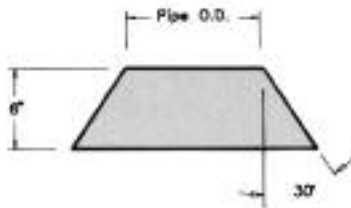
1. Dimension of square plate (which is sandwiched between curb and fan housing) must be specified when ordering.



## Storm Collar

Code: SC

Used above the TF and PTF for complete weatherization above the roof.



Materials Available (shaded areas):

Aluminized or Galvanized Steel	304	316
--------------------------------	-----	-----

Ordered Part Includes:

SC, plus hardware.

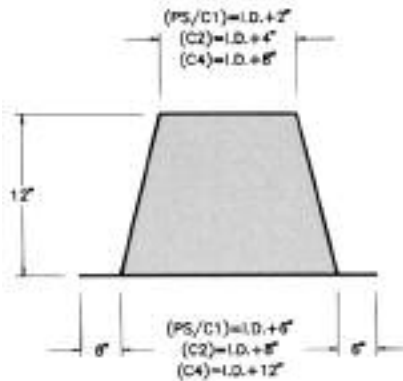
**Notes:**

1. Requires P600 sealant when installing.
2. Model PS part used for IPSC1 applications.

## Tall Flashing

Code: TF

Used in conjunction with SC for complete weatherization at the roof.



Materials Available (shaded areas):

Aluminized or Galvanized Steel	304	316
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Ordered Part Includes:

TF only.

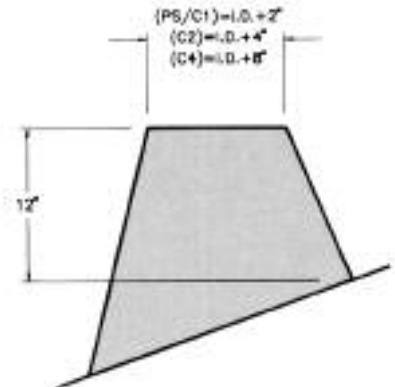
**Notes:**

1. Use limited to installations where complete roof penetration is non-combustible.
2. Model PS part used for IPSC1 applications.

## Pitched Tall Flashing

Code: PTF

Same function as TF, except for use on a pitched roof.



Materials Available (shaded areas):

Aluminized or Galvanized Steel	304	316
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Ordered Part Includes:

PTF only (specify pitch when ordering).

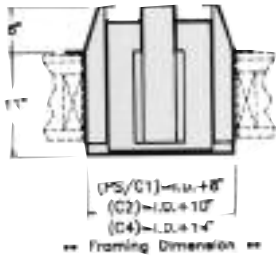
**Notes:**

1. Part is non-returnable and may require extra manufacturing time.
2. Use limited to installations where complete roof penetration is non-combustible.
3. Model PS part used for IPSC1 applications.

## Ventilated Thimble

Code: THB

Body part of MVT, MRS, and PVT.  
Also can be used by itself for a wall penetration.



Materials Available:

Galvanized Steel

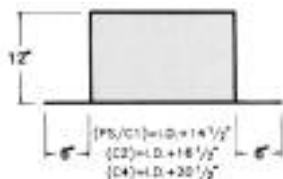
Notes:

1. Model PS part used for IPSC1 applications.

## Ventilated Tall Flashing

Code: VTF

Encloses the THB, offers protection from weather and moisture penetration.



Materials Available (shaded areas):

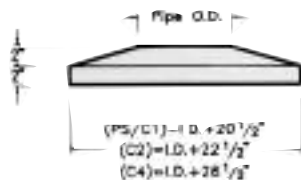
Aluminized or Galvanized Steel	304	316
--------------------------------	-----	-----

Notes: 1. Model PS part used for IPSC1 applications.

## Ventilated Storm Collar

Code: VSC

Protects the VTF from weather and moisture penetration.



Materials Available (shaded areas):

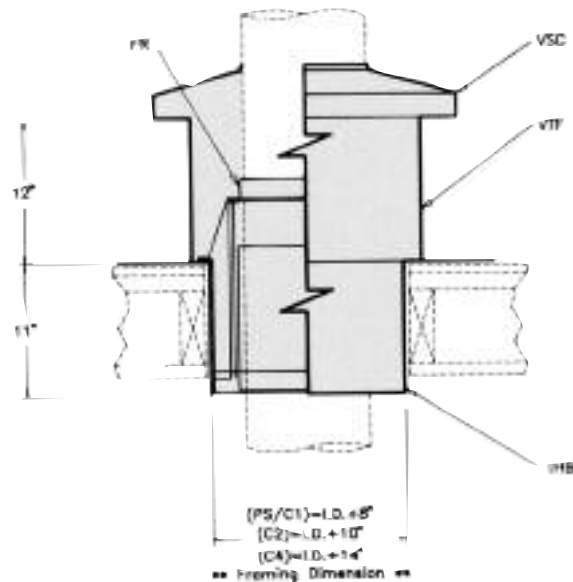
Aluminized or Galvanized Steel	304	316
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Notes: 1. Model PS part used for IPSC1 applications.

## Ventilated Roof Thimble Assembly

Code: MVT

For use where pipe passes through a combustible roof or structure.  
Also guides the chimney 6" above the roof line.



Materials Available (shaded areas):

Aluminized or Galvanized Steel	304	316
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Ordered Part Includes:

One THB, one FR, one VTF, and one VSC.

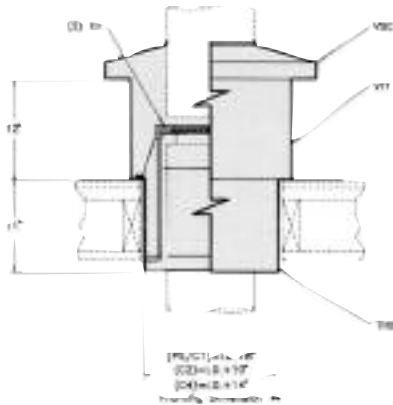
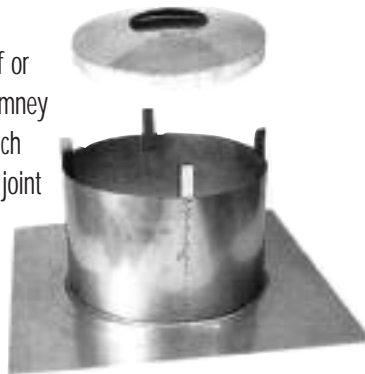
Notes:

1. Model PS part used for IPSC1 applications.

## Ventilated Roof Support Assembly

Code: MRS

For use where pipe passes through a combustible roof or structure. Supports the chimney 6" above the roof line which may require an expansion joint (AG or BJ) below the roof.



Materials Available (shaded areas):

Aluminized or Galvanized Steel

304

316

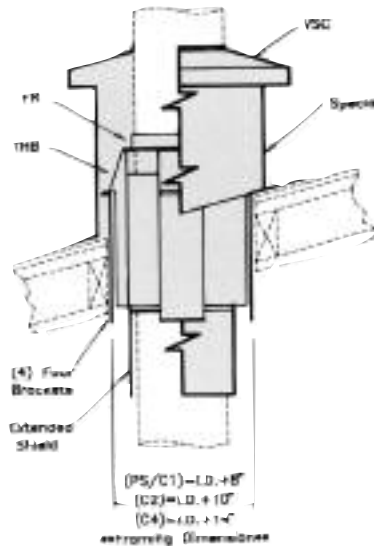
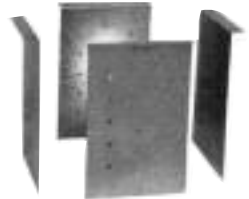
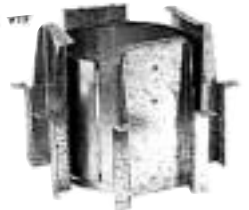
**Ordered Part Includes:**

One THB, two CF's, one VTF, and one VSC.

## Pitched Ventilated Roof Thimble

Code: PVT

For use where pipe passes through a combustible pitched roof or structure. Above 24" sizes and steep pitches are not available.



Materials Available (shaded areas):

Aluminized or Galvanized Steel

304

316

**Ordered Part Includes:**

One THB, 4 brackets, extended shield, special VTF, one FR, and one VSC.

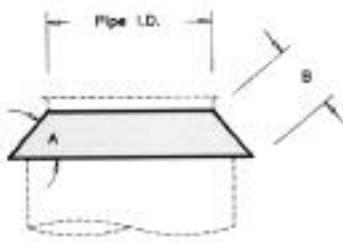
**Notes:**

1. Does not provide lateral support. An additional FR is required below the roof.
2. May require extra manufacturing time and is non-returnable.
3. Model PS part used for IPSC1 applications.

## Open Stack Closure Ring

Code: CR

Protects the insulated space between standard pipe inner and outer. Requires a drain at base of stack.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316
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Ordered Part Includes:

CR, plus hardware.

**Notes:**

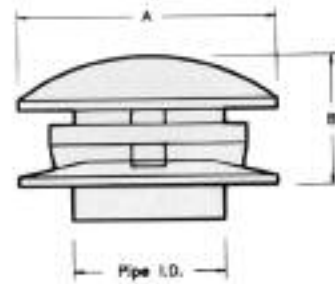
1. Model PS part used for IPSC1 applications.

Product	Dimensions	
	A	B
PS/C1	50°	3"
C2	32°	3½"
C4	17°	5¼"

## Chimney Round Top

Code: CT

Provides the greatest degree of rain protection. Available only in 5", 6", 8", 10", 12", and 14" sizes.



Materials Available:

430 Stainless Steel
---------------------

Ordered Part Includes:

CT, plus hardware.

**Notes:**

1. Model PS part used for IPSC1 applications.
2. Part not available for IPSC2 and IPSC4 applications.
3. K = 0.5 Flow Resistance Factor

Product (O.D.)	(I.D.)	Dimensions (inches)	
		A	B
	PS IPSC1 Only		
7	5	12	5½
8/9	6	12	5½
10	8	16	7
12	10	20	8½
14	12	24	10
16	14	28	11½

## Stack Cap

Code: SK

Provides partial protection with low flow resistance. May require a drain at base of stack.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316
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Ordered Part Includes:

SK, plus one CR and one VB.

**Notes:**

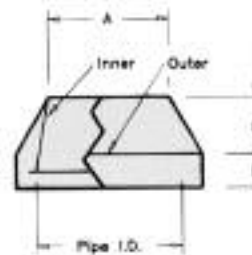
1. Model PS part used for IPSC1 applications.
2.  $K = 0.5$  Flow Resistance Factor

Product (pipe I. D.)	Dimensions (inches)	
	A	B
PS		
IPSC1		
IPSC2	A	B
IPSC4		
5	2½	10¼
6	3	10¼
8	4	13¾
10	5	17
12	6	20½
14	7	24
16	8	27¾
18	9	30¾
20	10	34¾
22	11	37¾
24	12	41
26	13	44¾
28	14	47¾
30	15	51¼
32	16	54¾
36	18	61½
42	21	71¼
48	24	82

## Insulated Exit Cone

Code: EC

Will increase stack exit velocity 1 1/2 times. Requires a drain at bottom of stack.



Materials Available (shaded areas):

304/Alum	316/Alum	304/304	316/316
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Ordered Part Includes:

One inner cone, one outer finish collar, and one VB.

**Notes:**

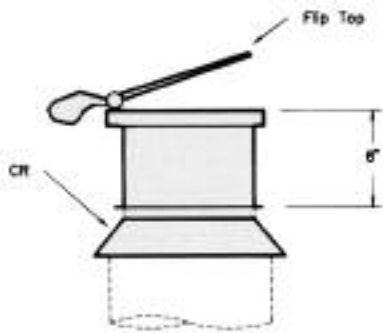
1.  $K = 1.25$  Flow Resistance Factors

(O.D.)	Product (pipe I. D.)			Dimensions (inches)		
	PS IPSC1	IPSC2	IPSC4	A	B	C
7	5	-	-	4¾	4	1¾
8/9	6	5	-	4¾	4	1½
10	8	6	-	6¾	4	1¾
12	10	8	-	8¾	4	3¾
14	12	10	6	9¾	4	3¾
16	14	12	8	11½	4	4
18	16	14	10	13¾	6	4¾
20	18	16	12	14¾	6	4¾
22	20	18	14	16¾	6	5
24	22	20	16	18	6	5¼
26	24	22	18	19¾	6	5¾
28	26	24	20	21¼	6	6
30	28	26	22	22¾	8	6¼
32	30	28	24	24½	8	6¾
34	32	30	26	26¾	8	6¾
36	-	32	28	27¼	10	7¼
38	36	-	30	29¾	10	7½
40	-	36	32	31	10	7¾
44	42	-	36	34¾	12	8½
46	-	42	-	36	12	8¾
50	48	-	42	39¾	12	9½
52	-	48	-	-	12	-
56	-	-	48	-	12	-

## Flip Top

Code: FL

Termination that prevents moisture and debris from entering system. Flip top opens with internal pressure and closes when pressure is absent.



Materials Available:

Cast Aluminum

### Ordered Part Includes:

FL connected to a 316 stainless steel TS (6" high), plus one CR, and one VB.

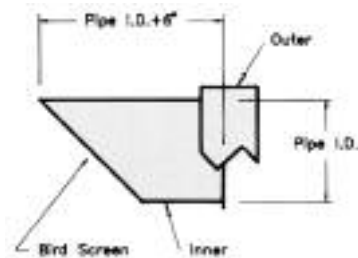
### Notes:

1. Available in sizes 5" through 24" only.
2. Model PS part used for IPSC1 applications.

## Miter Cut

Code: MC

Used for horizontal engine exhaust termination.



Materials Available (shaded areas):

304/Alum

316/Alum

304/304

316/316

### Ordered Part Includes:

One inner with bird screen, one outer finish collar, and one VB.

### Notes:

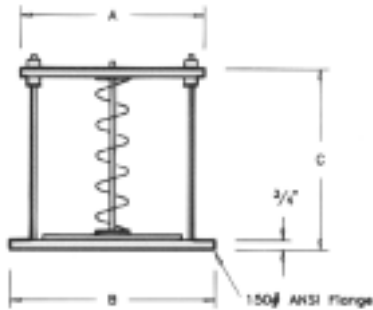
1. The 1/2" mesh-pattern bird screen has a 60 percent open area.
2.  $K = 1.25$  Flow Resistance Factor



## Explosion Relief Valve

Code: ER

For use on all engine exhaust. Helps control the venting pressure should a backfire occur.



### Ordered Part Includes:

ER, plus gasket, bolts, washers and nuts for attachment to FD.

### Notes:

1. Explosion Relief Valves are recommended in accordance with NFPA 37.
2. Caution must be used in locating valve in an exhaust system. Hot gases and high velocity could cause injury.
3. Number of Snubber Springs, Tension Springs, Support Rods, and Guide Rods vary with valve size.
4. Model PS part used for all IPS applications.

PS IPSC1 (pipe I.D.)	Dimensions (inches)			No. of Springs
	A	B	C	
5	8 $\frac{1}{8}$	10	10 $\frac{1}{4}$	1
6	9 $\frac{1}{8}$	11	10 $\frac{1}{4}$	1
8	12 $\frac{1}{8}$	13 $\frac{1}{2}$	10 $\frac{1}{4}$	1
10	14	16	10 $\frac{1}{4}$	1
12	16 $\frac{1}{4}$	19	10 $\frac{1}{4}$	2
14	18 $\frac{1}{4}$	21	10 $\frac{1}{4}$	2
16	20 $\frac{1}{4}$	23 $\frac{1}{2}$	10 $\frac{1}{4}$	3
18	22 $\frac{1}{4}$	25	10 $\frac{1}{4}$	3
20	24 $\frac{1}{4}$	27 $\frac{1}{2}$	10 $\frac{1}{4}$	3
22	26 $\frac{1}{4}$	27 $\frac{1}{2}$	10 $\frac{1}{4}$	4
24	28 $\frac{1}{4}$	32	10 $\frac{1}{4}$	4

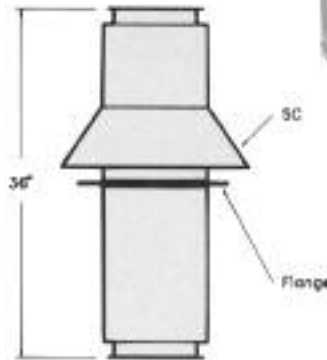
## Guy Section

Code: GS

A rigid, factory-welded section for attaching guys to chimney stack.



(insert photo shows storm collar)



### Materials Available (shaded areas):

304/Alum

316/Alum

304/304

316/316

### Ordered Part Includes:

Welded pipe section with flange and storm collar, one CB, and one VB.

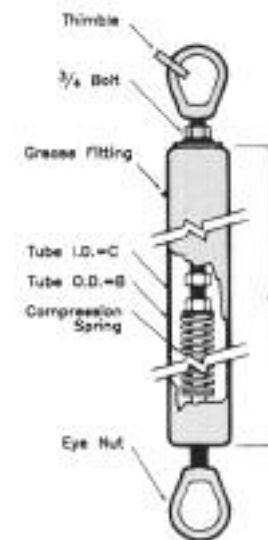
### Notes:

1. Contact factory for guy calculations before ordering.
2. Flange has 13/16" diameter holes, 30° apart.
3. Flow Resistance Factor (K) is the same as insulated pipe.

## Guy Tensioner

Code: GT

Used with GS to allow the stack to expand without stretching the guy wire or buckling the stack.



### Notes:

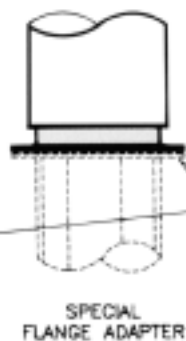
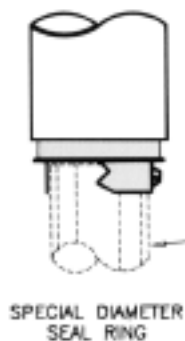
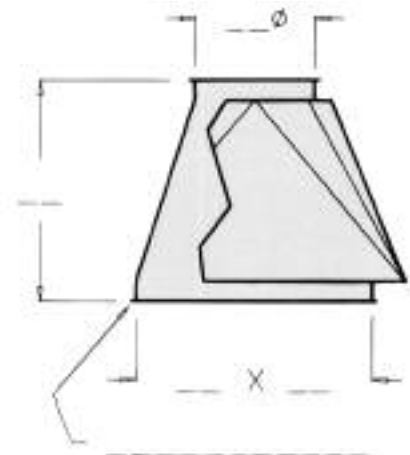
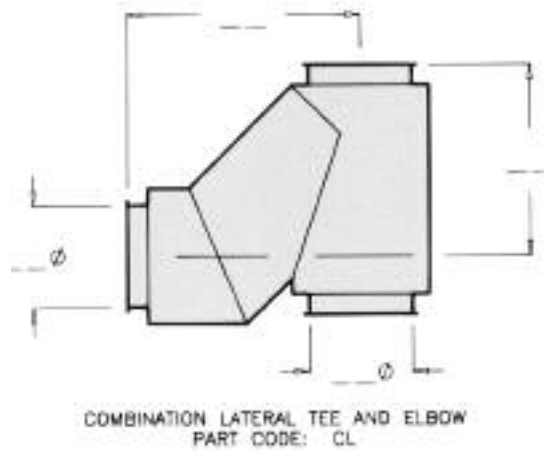
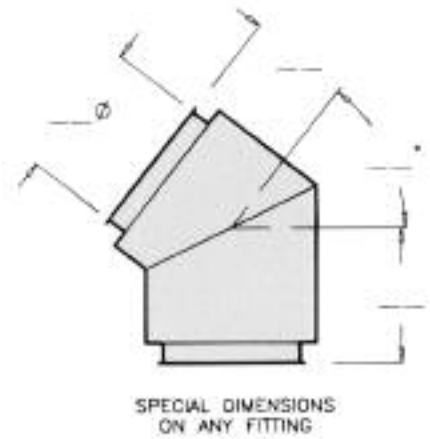
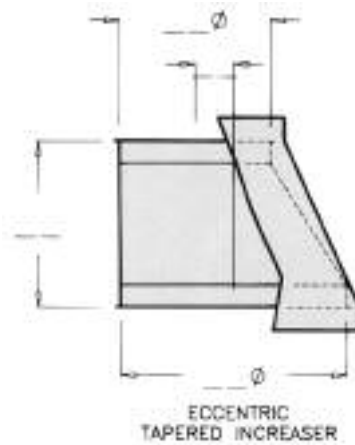
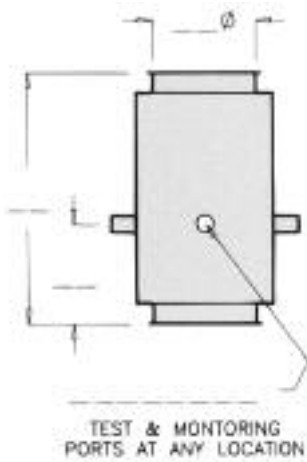
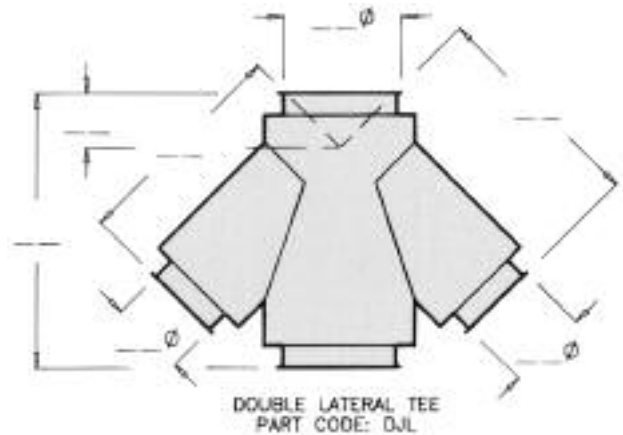
1. Available in four tension capacities as shown below.
2. Contact factory for guy calculations before ordering.

Tension Capacity (lb.)	Dimensions (inches)			
	1050	1350	2100	2700
Tube Length - A	24	38	24	38
Tube O. D.	1 $\frac{1}{8}$	2 $\frac{1}{8}$	1 $\frac{1}{8}$	2 $\frac{1}{8}$
Tube I. D.	1 $\frac{1}{16}$	2 $\frac{1}{16}$	1 $\frac{1}{16}$	2 $\frac{1}{16}$
Maximum Compression Travel	3	3	3	3
Weight (lb.)	15	25	22	37

# SPECIAL PARTS

Several special parts, such as those shown here, are available upon request.

Please provide detail of the required part if not already designed by Selkirk, and allow extra manufacturing time. Special parts are non-returnable.



PROVIDE PRECISE DETAIL  
OF EXISTING PIPE OR  
FLANGE FOR ATTACHMENT

SINGLE WALL PART CODE:    xSWA  
DOUBLE WALL PART CODE:    xDWA

# PRODUCT WEIGHT (Lbs.)

(for shipping weight add 20% to product weight)

PART	5" Chimney				6" Chimney				8" Chimney				10" Chimney				12" Chimney				14" Chimney									
	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4		
Double Wall Pipe																														
60" Length	60	-	-	-	60	-	-	-	60	32	39	46	60	60	43	52	62	81	60	51	62	73	96	60	57	70	82	108		
42" Length	42	-	-	-	42	17	21	24	32	42	23	28	33	43	42	31	38	45	59	42	36	44	52	68	42	40	49	58	76	
30" Length	30	10	12	14	19	30	12	15	17	23	30	16	20	23	30	30	20	24	29	38	30	24	29	35	45	30	26	35	37	49
18" Length	18	6	7	9	11	18	7	9	10	13	18	9	11	13	17	18	12	15	17	23	18	15	18	22	28	18	17	21	24	32
Adjustable/Variable Pipe																														
30" Adjustable Pipe	AG30	13	16	19	25	AG30	16	20	23	30	AG30	20	24	29	38	AG30	25	31	36	47	AG30	29	35	42	55	AG30	33	40	48	62
18" Adjustable Pipe	AG18	7	9	10	13	AG18	11	13	16	21	AG18	13	16	19	25	AG18	16	20	23	30	AG18	20	24	29	38	AG18	22	27	32	42
Lined Bellows Joint	BJ	12	15	17	23	BJ	9	11	13	17	BJ	11	13	16	21	BJ	16	20	23	30	BJ	20	24	29	38	BJ	15	18	22	28
30" Variable Pipe	VL30	13	16	19	25	VL30	16	20	23	30	VL30	20	24	29	38	VL30	25	31	36	47	VL30	29	35	42	55	VL30	33	40	48	62
18" Variable Pipe	VL18	7	9	10	13	VL18	11	13	16	21	VL18	13	16	19	25	VL18	16	20	23	30	VL18	20	24	29	38	VL18	22	27	32	42
Double Wall Fittings																														
90° Tee	MT	6	7	9	11	MT	7	9	10	13	MT	10	12	14	19	MT	14	17	20	26	MT	18	22	26	34	MT	23	28	33	43
90° Tee-Grease	GMT	7	9	10	13	GMT	8	10	12	15	GMT	12	15	17	23	GMT	17	21	24	32	GMT	21	26	30	40	GMT	28	34	40	53
45° Tee Lateral	JL	10	12	14	19	JL	12	15	17	23	JL	17	21	24	32	JL	23	28	33	43	JL	31	38	45	59	JL	40	49	58	76
90° Wye	JY	5	6	7	9	JY	6	7	9	11	JY	8	10	12	15	JY	18	22	26	34	JY	20	24	29	38	JY	28	34	40	53
Drain Tee Cap	TC	1	1	1	2	TC	1	1	1	2	TC	2	2	3	4	TC	3	4	4	6	TC	3	4	4	6	TC	5	6	7	9
Cleanout Tee Cap	TCN	1	1	1	2	TCN	1	1	1	2	TCN	2	2	3	4	TCN	3	4	4	6	TCN	3	4	4	6	TCN	5	6	7	9
15° Elbow	EL15	8	10	12	15	EL15	9	11	13	17	EL15	10	12	14	19	EL15	13	16	19	25	EL15	16	20	23	30	EL15	16	20	23	30
30° Elbow	EL30	4	5	6	8	EL30	5	6	7	9	EL30	7	9	10	13	EL30	10	12	14	19	EL30	13	16	19	25	EL30	15	18	22	28
45° Elbow	EL45	6	7	9	11	EL45	7	9	10	13	EL45	10	12	14	19	EL45	13	16	19	25	EL45	17	21	24	32	EL45	20	24	29	38
90° Elbow	EL90	8	10	12	15	EL90	10	12	14	19	EL90	15	18	22	28	EL90	20	24	29	38	EL90	26	32	37	49	EL90	30	37	43	57
Tapered Increaser (2 Step)	OT	6	7	8	11	OT	7	9	10	13	OT	9	11	13	17	OT	10	12	14	19	OT	12	15	17	23	OT	16	20	23	30
Step Increaser (1 Step)	OS	3	4	4	6	OS	4	5	6	8	OS	5	6	7	9	OS	10	12	14	19	OS	13	16	19	25	OS	13	16	19	25
Drain Section	DS	5	6	7	9	DS	5	6	7	9	DS	7	9	10	13	DS	8	10	12	15	DS	10	12	14	19	DS	11	13	16	21
Support/Guide Accessories																														
Half Angle Ring	HR	2	2	3	3	HR	3	3	3	4	HR	3	3	4	4	HR	4	4	4	5	HR	4	4	5	6	HR	5	5	6	7
Full Angle Ring	FR	4	4	5	6	FR	5	5	6	6	FR	6	6	8	8	FR	6	6	8	9	FR	8	8	9	12	FR	9	9	12	13
Plate Support Assembly	PA	7	7	9	11	PA	9	9	11	15	PA	11	11	15	16	PA	15	15	16	19	PA	16	16	19	23	PA	19	19	23	25
Wall Support Assembly	WA	17	17	20	23	WA	20	20	23	27	WA	23	23	27	28	WA	27	27	28	31	WA	28	28	31	34	WA	31	31	34	38
Wall Guide Assembly	WG	17	17	21	23	WG	21	21	23	26	WG	23	23	26	27	WG	26	26	27	29	WG	27	27	29	32	WG	29	29	32	37
Floor Guide Assembly	FG	8	8	10	12	FG	10	10	12	13	FG	12	12	13	14	FG	13	13	14	18	FG	14	14	18	18	FG	18	18	18	21
Connection Accessories																														
Boiler Kit	BK	2	2	2	2	BK	2	2	2	2	BK	2	2	2	2	BK	2	2	2	2	BK	2	2	2	2	BK	2	2	2	2
Seal Ring	SR	1	1	1	1	SR	1	1	1	1	SR	2	2	2	2	SR	2	2	2	2	SR	2	2	2	2	SR	1	1	1	1
Flange Adapter	FD	5	6	7	9	FD	8	10	11	15	FD	10	12	14	19	FD	14	17	20	26	FD	22	27	32	42	FD	21	26	30	40
Clamp Flange	CF	2	2	3	4	CF	3	3	4	6	CF	4	4	6	6	CF	6	6	6	7	CF	6	6	7	8	CF	7	7	8	9
Flanged Hood Transition	TS	1	1	1	2	TS	1	1	1	2	TS	2	2	3	4	TS	2	2	3	4	TS	2	2	3	4	TS	2	2	3	4
Unflanged Hood Transition	TSU	1	1	1	2	TSU	1	1	1	2	TSU	2	2	3	4	TSU	2	2	3	4	TSU	2	2	3	4	TSU	2	2	3	4
Fan Adapter	FA	4	5	6	8	FA	5	6	7	9	FA	7	9	10	13	FA	12	15	17	23	FA	15	18	22	28	FA	18	22	26	34
Roof Penetrations																														
Storm Collar	SC	2	2	3	3	SC	3	6	3	3	SC	3	3	3	4	SC	3	3	4	4	SC	4	4	4	5	SC	4	4	5	5
Tall Flashing	TF	5	5	6	7	TF	6	6	7	8	TF	7	7	8	9	TF	8	8	9	10	TF	9	9	10	11	TF	10	10	11	12
Pitched Tall Flashing	PTF	6	6	7	8	PTF	7	7	8	9	PTF	8	8	9	10	PTF	9	9	10	11	PTF	10	10	11	12	PTF	11	11	12	13
Ventilated Thimble	THB	17	17	17	18	THB	17	10	18	25	THB	18	18	25	27	THB	25	25	27	30	THB	27	27	30	32	THB	30	30	32	34
Ventilated Tall Flashing	VTF	10	10	10	13	VTF	10	10	13	15	VTF	13	13	15	16	VTF	15	15	16	16	VTF	16	16	16	16	VTF	16	16	16	18
Ventilated Storm Collar	VSC	3	3	5	5	VSC	5	5	5	5	VSC	5	5	5	6	VSC	5	5	6	6	VSC	6	6	6	8	VSC	6	6	8	8
Ventilated Thimble Assembly	MVT	37	37	37	39	MVT	37	37	39	51	MVT	39	39	51	57	MVT	51	51	57	59	MVT	57	57	59	65	MVT	59	59	65	72
Ventilated Support Assembly	MRS	37	37	37	39	MRS	37	37	39	51	MRS	39	39	51	57	MRS	51	51	57	59	MRS	57	57	59	65	MRS	59	59	65	72
Pitched Thimble Assembly	PVT	41	41	41	43	PVT	41	41	43	56	PVT	43	43	56	63	PVT	56	51	63	65	PVT	63	63	65	72	PVT	65	65	72	79
Terminations																														
Closure Ring	CR	1	1	1	1	CR	1	1	1	2	CR	1	1	2	3	CR	2	2	3	3	CR	3	3	3	3	CR	3	3	3	3
Chimney Top	CT	3	-	-	-	CT	3	-	-	-	CT	5	-	-	-	CT	8	-	-	-	CT	12	-	-	-	CT	18	-	-	-
Stack Cap	SK	4	4	4	4	SK	4	4	4	4	SK	6	6	6	6	SK	9	9	9	9	SK	12	12	12	12	SK	15	15	15	15
Exit Cone	EC	1	1	1	2	EC	2	2	3	4	EC	4	6	6	8	EC	5	6	7	9	EC	9	11	13	17	EC	7	9	10	13
Flip Top	FL	3	3	3	3	FL	3	3	3	3	FL	8	8	8	8	FL	10	10	10	10	FL	12	12	12	12	FL	14	14	14	14
Miter Cut	MC	6	6	6	6	MC	6	6	6	6	MC	7	7	7	7	MC	8	8	8	8	MC	9	9	9	9	MC	12	12	12	12
Miscellaneous																														
Guy Section	GS	16	20	23	30	GS	20	24	29	38	GS	25	31	36	47	GS	33	40	48	62	GS	40	49	58	76	GS	45	55	65	85
Explosion Relief Valve	ER	25	-	-	-	ER	30	-	-	-	ER	45	-	-	-	ER	55	-	-	-	ER	90	-	-	-	ER	105	-	-	-
Vee Band	VB	1	1	1	1	VB	1	1	1	1	VB	1	1	1	1	VB	1	1	1	1	VB	1	1	1	1	VB	1	1	1	1
Overlapping Vee Band	OBV	1	1	1	1	OBV	1	1	1	1	OBV	1	1	1	1	OBV	1	1	1	1	OBV	1	1	1	1	OBV	1	1	1	1
Channel Band	CB	1	1	1	1	CB	1	1	1	1	CB	1	1	1	1	CB	1	1	1	1	CB	1	1	1	1	CB	1	1	1	2
Half Channel Band	HCB	1	1	1	1	HCB	1	1	1	1	HCB</																			

# PRODUCT WEIGHT (Lbs.)

(for shipping weight add 20% to product weight)

PART	16" Chimney				18" Chimney				20" Chimney				22" Chimney				24" Chimney				26" Chimney			
	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4
<b>Double Wall Pipe</b>																								
60" Length	60	-	-	-	60	-	-	-	60	-	-	-	60	-	-	-	60	-	-	-	60	-	-	-
42" Length	42	46	56	66 87	42	51	62	73 96	42	57	70	82 108	42	62	76	89 117	42	67	82	96 127	42	73	89	105
30" Length	30	30	37	43 57	30	34	41	49 64	30	36	44	52 68	30	39	48	56 74	30	42	51	60 79	30	46	56	66 87
18" Length	18	18	22	26 34	18	20	24	29 38	18	24	29	35 45	18	26	32	37 49	18	27	53	39 51	18	30	37	43 57
<b>Adjustable/Variable Pipe</b>																								
30" Adjustable Pipe	AG30	36	44	52 68	AG30	40	49	58 76	AG30	44	54	63 83	AG30	51	62	73 96	AG30	53	65	76 100	AG30	56	68	81 106
18" Adjustable Pipe	AG18	24	29	35 45	AG18	26	32	37 49	AG18	29	35	42 55	AG18	33	40	48 62	AG18	36	44	52 68	AG18	38	46	55 72
Lined Bellows Joint	BJ	17	21	24 32	BJ	19	23	27 36	BJ	21	26	30 40	BJ	24	29	35 45	BJ	26	32	37 49	BJ	-	-	-
30" Variable Pipe	VL30	36	44	52 68	VL30	40	49	58 76	VL30	44	54	63 83	VL30	51	62	73 96	VL30	53	65	76 100	VL30	56	68	81 106
18" Variable Pipe	VL18	24	29	35 45	VL18	26	32	37 49	VL18	29	35	42 55	VL18	33	40	48 62	VL18	36	44	52 68	VL18	38	46	55 72
<b>Double Wall Fittings</b>																								
90° Tee	MT	26	32	37 49	MT	32	39	46 60	MT	36	44	52 68	MT	49	60	71 93	MT	52	63	75 98	MT	62	76	89 117
90° Tee -Grease	GMT	33	40	48 62	GMT	40	49	58 76	GMT	46	56	66 87	GMT	60	73	86 113	GMT	64	78	92 121	GMT	75	92	108 142
45° Tee Lateral	JL	58	71	84 110	JL	63	77	91 119	JL	68	83	98 129	JL	79	96	114 149	JL	89	109	128 168	JL	112	137	161 212
90° Wye	JY	33	40	48 60	JY	43	52	62 81	JY	52	63	75 98	JY	62	76	89 117	JY	72	88	104 136	JY	82	100	118 155
Drain Tee Cap	TC	7	9	10 13	TC	8	10	12 15	TC	10	12	14 19	TC	11	13	16 21	TC	12	15	17 23	TC	13	16	19 25
Cleanout Tee Cap	TCN	7	9	10 13	TCN	8	10	12 15	TCN	10	12	14 19	TCN	11	13	16 21	TCN	12	15	17 23	TCN	13	16	19 25
15" Elbow	EL15	18	22	26 34	EL15	23	28	33 43	EL15	26	32	37 49	EL15	29	35	42 55	EL15	32	39	46 60	EL15	37	45	53 70
30" Elbow	EL30	17	21	24 32	EL30	20	24	29 38	EL30	28	34	40 53	EL30	32	39	46 60	EL30	33	40	48 62	EL30	38	46	55 72
45° Elbow	EL45	25	31	36 47	EL45	26	32	37 49	EL45	31	38	45 59	EL45	42	51	60 79	EL45	41	51	60 79	EL45	50	61	72 95
90° Elbow	EL90	38	46	55 72	EL90	39	48	56 74	EL90	47	57	68 89	EL90	54	66	78 102	EL90	63	77	91 119	EL90	75	92	108 142
Tapered Increaser (2 Step)	OT	16	20	23 30	OT	26	32	37 49	OT	32	39	46 60	OT	38	46	55 72	OT	43	53	62 81	OT	48	59	69 91
Step Increaser (1 Step)	OS	14	17	20 26	OS	16	20	23 30	OS	18	22	26 34	OS	44	54	63 83	OS	19	23	27 81	OS	20	24	29 38
Drain Section	DS	13	16	19 25	DS	13	16	19 25	DS	16	20	23 30	DS	17	21	24 32	DS	18	22	26 34	DS	20	24	29 38
<b>Support/Guide Accessories</b>																								
Half Angle Ring	HR	6	6	7 7	HR	7	7	7 8	HR	7	7	8 9	HR	8	8	9 9	HR	9	9	9 9	HR	9	9	9 9
Full Angle Ring	FR	12	12	13 14	FR	13	13	14 16	FR	14	14	16 18	FR	16	16	18 18	FR	18	18	18 18	FR	18	18	18 19
Plate Support Assembly	PA	23	23	25 28	PA	25	25	28 31	PA	28	28	31 35	PA	31	31	35 40	PA	35	35	40 42	PA	40	40	42 43
Wall Support Assembly	WA	34	34	38 41	WA	38	38	41 43	WA	41	41	43 45	WA	43	43	45 46	WA	45	45	46 48	WA	46	46	48 51
Wall Guide Assembly	WG	32	32	37 38	WG	37	37	38 38	WG	38	38	38 38	WG	38	38	38 38	WG	38	38	38 38	WG	38	38	39 39
Floor Guide Assembly	FG	18	18	21 23	FG	21	21	23 25	FG	23	25	25 28									FG	28	28	28 30
<b>Connection Accessories</b>																								
Boiler Kit	BK	2	2	2 2	BK	2	2	2 2	BK	2	2	2 2	BK	2	2	2 2	BK	2	2	2 2	BK	2	2	2 2
Seal Ring	SR	1	1	1 1	SR	4	4	4 4	SR	4	4	4 4	SR	4	4	4 4	SR	5	5	5 5	SR	5	5	5 5
Flange Adapter	FD	26	32	37 49	FD	34	41	49 64	FD	32	39	46 60	FD	38	46	55 72	FD	43	52	62 81	FD	47	57	68 89
Clamp Flange	CF	8	8	9 9	CF	9	9	9 10	CF	9	9	10 10	CF	10	10	10 11	CF	10	10	11 11	CF	11	11	11 11
Flanged Hood Transition	TS	2	2	3 4	TS	4	5	6 8	TS	4	5	6 8	TS	4	5	6 8	TS	5	6	7 9	TS	5	6	7 9
Unflanged Hood Transition	TSU	2	2	3 4	TSU	4	5	6 8	TSU	4	5	6 8	TSU	4	5	6 8	TSU	5	6	7 9	TSU	5	6	7 9
Fan Adapter	FA	21	26	30 40	FA	25	31	36 47	FA	31	38	45 59	FA	36	44	52 68	FA	40	49	58 76	FA	46	56	66 87
<b>Roof Penetrations</b>																								
Storm Collar	SC	5	5	5 5	SC	5	5	5 6	SC	5	5	6 6	SC	6	6	6 7	SC	6	6	7 7	SC	7	7	7 8
Tall Flashing	TF	11	11	12 13	TF	12	12	13 16	TF	13	13	16 19	TF	16	16	19 21	TF	19	19	21 22	TF	21	21	22 23
Pitched Tall Flashing	PTF	12	12	13 14	PTF	13	13	14 18	PTF	14	14	18 20	PTF	18	18	20 22	PTF	20	20	22 24	PTF	22	22	24 25
Ventilated Thimble	THB	32	32	34 36	THB	34	34	36 38	THB	36	36	38 40	THB	38	38	40 41	THB	40	40	41 42	THB	41	41	42 44
Ventilated Tall Flashing	VTF	16	16	18 18	VTF	18	18	18 20	VTF	18	18	20 20	VTF	20	20	22 26	VTF	22	22	26 28	VTF	26	26	28 30
Ventilated Storm Collar	VSC	8	8	8 8	VSC	8	8	8 9	VSC	8	8	9 9	VSC	9	9	9 11	VSC	9	9	11 11	VSC	11	11	11 12
Ventilated Thimble Assembly	MVT	65	65	72 73	MVT	72	72	73 82	MVT	73	75	82 89	MVT	82	82	89 92	MVT	89	89	92 96	MVT	92	92	96 100
Ventilated Support Assembly	MRS	65	65	72 73	MRS	72	72	73 82	MRS	73	75	82 89	MRS	82	82	89 92	MRS	89	89	92 96	MRS	92	92	96 100
Pitched Thimble Assembly	PVT	72	72	79 80	PVT	79	79	80 90	PVT	80	80	90 98	PVT	90	90	98 102	PVT	98	98	102 106	PVT	102	102	106 110
<b>Terminations</b>																								
Closure Ring	CR	3	3	3 3	CR	3	3	3 3	CR	3	3	3 3	CR	3	3	3 3	CR	3	3	3 3	CR	3	3	3 4
Chimney Top	CT	-	-	-	CT	-	-	-	CT	-	-	-	CT	-	-	-	CT	-	-	-	CT	-	-	-
Stack Cap	SK	19	19	19 19	SK	21	21	21 21	SK	27	27	27 27	SK	33	33	33 33	SK	40	40	40 40	SK	30	30	30 30
Exit Cone	EC	13	16	19 25	EC	13	16	19 25	EC	14	17	20 26	EC	16	20	23 30	EC	18	22	26 34	EC	26	32	37 49
Flip Top	FL	16	16	16 16	FL	18	18	18 18	FL	20	20	20 20	FL	22	22	22 22	FL	24	24	24 24	FL	26	26	26 26
Miter Cut	MC	15	15	15 15	MC	17	17	17 17	MC	20	20	20 20	MC	22	22	22 22	MC	24	24	24 24	MC	27	27	27 27
<b>Miscellaneous</b>																								
Guy Section	GS	49	60	71 93	GS	54	66	78 102	GS	62	76	89 117	GS	68	83	98 129	GS	70	85	101 132	GS	78	95	112 147
Explosion Relief Valve	ER	130	-	-	ER	145	-	-	ER	200	-	-	ER	210	-	-	ER	220	-	-	ER	-	-	-
Vee Band	VB	2	2	2 2	VB	2	2	2 2	VB	2	2	2 2	VB	3	3	3 3	VB	3	3	3 3	VB	3	3	3 3
Overlapping Vee Band	OBV	2	2	2 2	OBV	2	2	2 2	OBV	2	2	2 2	OBV	3	3	3 3	OBV	3	3	3 3	OBV	3	3	3 3
Channel Band	CB	1	1	2 2	CB	2	2	2																

# PRODUCT WEIGHT (Lbs.)

(for shipping weight add 20% to product weight)

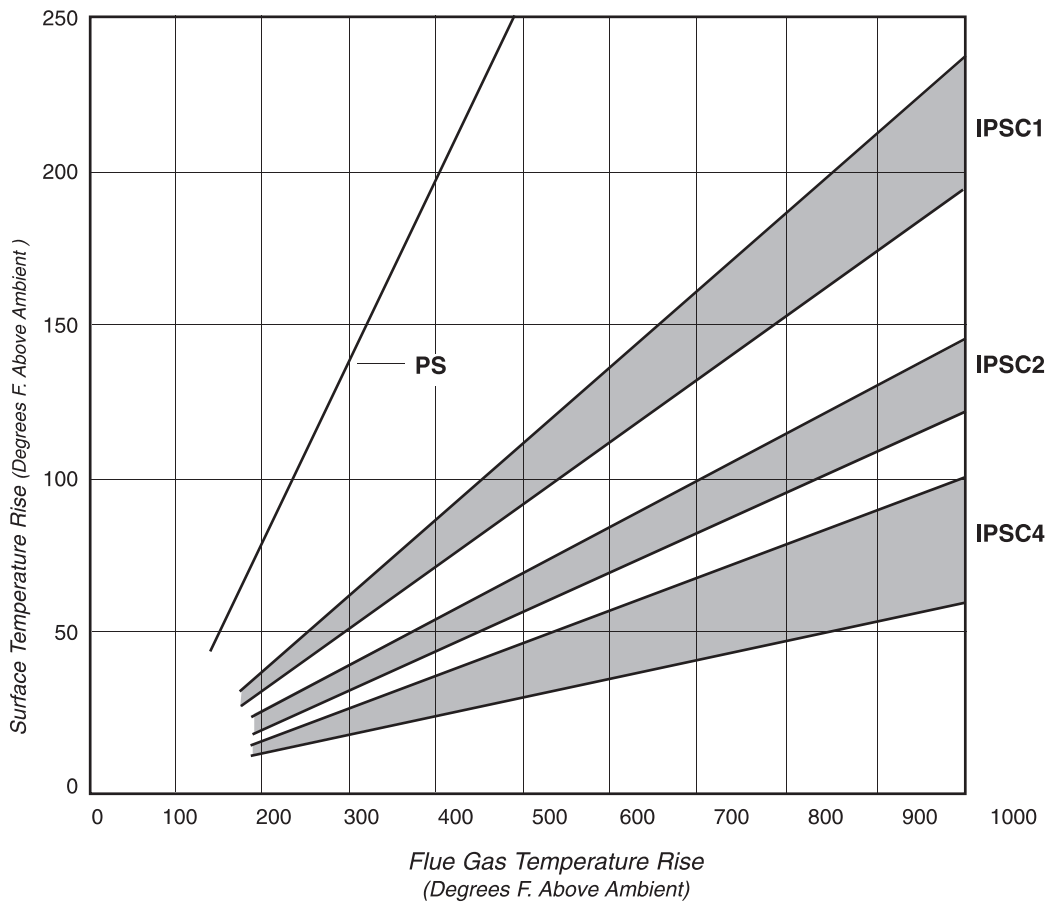
PART	28" Chimney				30" Chimney				32" Chimney				36" Chimney				42" Chimney				48" Chimney			
	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4	Code	PS	C1	C2 C4
<b>Double Wall Pipe</b>																								
60" Length	60	-	-	-	60	-	-	-	60	-	-	-	60	-	-	-	60	-	-	-	60	-	-	-
42" Length	42	78	95	112	42	84	102	-	42	90	110	-	42	-	-	-	42	-	-	-	42	-	-	-
30" Length	30	49	60	71 93	30	53	65	76 100	30	56	68	81 106	30	62	76	89 117	30	86	105	124 163	30	98	120	141 185
18" Length	18	32	39	46 60	18	34	41	49 64	18	35	43	50 66	18	39	48	56 74	18	67	82	96 127	18	76	93	109 144
<b>Adjustable/Variable Pipe</b>																								
30" Adjustable Pipe	AG30	58	71	84 110	AG30	59	72	85 112	AG30	60	73	86 113	AG30	69	84	99 130	AG30	109	133	157 206	AG30	125	153	180 236
18" Adjustable Pipe	AG18	-	-	-	AG18	-	-	-	AG18	-	-	-	AG18	-	-	-	AG18	-	-	-	AG18	-	-	-
Lined Bellows Joint	BJ	12	15	17 23	BJ	-	-	-	BJ	-	-	-	BJ	-	-	-	BJ	-	-	-	BJ	-	-	-
30" Variable Pipe	VL30	58	71	84 110	VL30	59	72	85 112	VL30	60	73	86 113	VL30	69	84	99 130	VL30	109	133	157 206	VL30	125	153	180 236
18" Variable Pipe	VL18	40	49	58 76	VL18	44	54	63 83	VL18	48	59	69 91	VL18	56	68	81 106	VL18	78	95	112 147	VL18	89	109	128 168
<b>Double Wall Fittings</b>																								
90° Tee	MT	71	87	102 134	MT	81	99	117 153	MT	90	110	130 170	MT	109	133	157 206	MT	142	173	204 268	MT	220	268	317 416
90° Tee -Grease	GMT	87	106	125 164	GMT	99	121	143 187	GMT	109	133	157 206	GMT	131	160	189 248	GMT	171	209	246 323	GMT	256	312	369 484
45° Tee Lateral	JL	135	165	194 255	JL	151	184	217 285	JL	167	204	240 316	JL	208	254	300 393	JL	248	303	357 469	JL	280	342	403 529
90° Wye	JY	91	111	131 172	JY	98	120	141 185	JY	104	127	150 197	JY	130	159	187 246	JY	162	198	233 306	JY	194	237	279 367
Drain Tee Cap	TC	16	20	23 30	TC	18	22	26 34	TC	19	23	27 36	TC	22	27	32 42	TC	29	35	42 55	TC	36	44	52 68
Cleanout Tee Cap	TCN	16	20	23 30	TCN	18	22	26 34	TCN	19	23	27 36	TCN	22	27	32 42	TCN	29	35	42 55	TCN	36	44	52 68
15° Elbow	EL15	42	51	60 79	EL15	45	55	65 85	EL15	49	60	71 93	EL15	55	67	79 104	EL15	70	85	101 132	EL15	83	101	120 157
30° Elbow	EL30	42	51	60 79	EL30	45	55	65 85	EL30	50	61	72 95	EL30	58	71	84 110	EL30	74	90	107 140	EL30	88	107	127 166
45° Elbow	EL45	57	70	82 108	EL45	61	74	88 115	EL45	65	79	94 123	EL45	80	98	115 151	EL45	101	123	145 191	EL45	121	148	174 229
90° Elbow	EL90	86	105	124 163	EL90	91	111	131 172	EL90	96	117	138 181	EL90	120	146	173 227	EL90	152	185	219 287	EL90	182	222	262 344
Tapered Increaser (2 Step)	OT	53	65	76 100	OT	57	70	82 108	OT	60	73	86 113	OT	88	108	127 166	OT	100	122	144 189	OT	-	-	-
Step Increaser (1 Step)	OS	28	34	40 53	OS	35	43	50 66	OS	42	51	60 79	OS	60	73	86 113	OS	75	92	108 142	OS	90	110	130 170
Drain Section	DS	21	26	30 40	DS	23	28	33 43	DS	25	31	36 47	DS	25	31	36 47	DS	42	51	60 79	DS	48	59	69 91
<b>Support/Guide Accessories</b>																								
Half Angle Ring	HR	9	9	9 10	HR	9	9	10 10	HR	10	10	10 13	HR	10	10	13 14	HR	13	13	14 25	HR	14	14	20 26
Full Angle Ring	FR	18	18	19 19	FR	19	19	19 21	FR	19	19	21 26	FR	21	21	26 29	FR	26	26	29 49	FR	29	29	42 55
Plate Support Assembly	PA	42	42	43 46	PA	43	43	46 54	PA	46	46	54 67	PA	54	54	67 81	PA	67	67	81 127	PA	81	81	117 153
Wall Support Assembly	WA	48	48	51 54	WA	51	51	54 58	WA	54	54	58 74	WA	58	58	74 88	WA	74	74	88 140	WA	88	88	127 166
Wall Guide Assembly	WG	39	39	39 40	WG	39	39	40 43	WG	40	40	43 54	WG	43	43	54 65	WG	54	54	65 102	WG	65	65	94 123
Floor Guide Assembly									FG	31	31	34 42	FG	34	34	42 50	FA	42	42	50 79	FG	50	50	72 95
<b>Connection Accessories</b>																								
Boiler Kit	BK	2	2	2 2	BK	2	2	2 2	BK	2	2	2 2	BK	2	2	2 2	BK	2	2	2 2	BK	2	2	2 2
Seal Ring	SR	6	6	6 6	SR	6	6	6 6	SR	7	7	7 7	SR	9	9	9 9	SR	12	12	12 12	SR	14	14	14 14
Flange Adapter	FD	50	61	72 95	FD	59	72	85 112	FD	68	83	98 129	FD	77	94	111 146	FD	86	105	124 163	FD	102	124	147 193
Clamp Flange	CF	11	11	11 12	CF	11	11	12 14	CF	12	12	14 16	CF	14	14	16 19	CF	16	16	19 30	CF	19	19	27 36
Flanged Hood Transition	TS	6	7	9 11	TS	6	7	9 11	TS	7	9	10 13	TS	9	11	13 17	TS	12	15	17 23	TS	14	17	20 26
Unflanged Hood Transition	TSU	6	7	9 11	TSU	6	7	9 11	TSU	7	9	10 13	TSU	9	11	13 17	TSU	12	15	17 23	TSU	14	17	20 26
Fan Adapter	FA	48	59	69 91	FA	55	67	79 104	FA	65	79	94 123	FA	74	90	107 140	FA	83	101	120 157	FA	99	121	143 187
<b>Roof Penetrations</b>																								
Storm Collar	SC	7	7	8 8	SC	8	8	8 9	SC	8	8	9 10	SC	9	9	10 13	SC	10	10	13 19	SC	13	13	19 25
Tall Flashing	TF	22	22	23 25	TF	23	23	25 26	TF	25	25	26 33	TF	26	26	33 34	TF	33	33	34 62	TF	34	34	49 64
Pitched Tall Flashing	PTF	24	24	25 27	PTF	25	25	27 29	PTF	27	27	29 36	PTF	29	29	36 37	PTF	36	36	37 68	PTF	37	37	53 70
Ventilated Thimble	THB	42	42	44 48	THB	44	44	48 54	THB	48	48	54 64	THB	54	54	64 83	THB	64	64	83 121	THB	83	83	120 157
Ventilated Tall Flashing	VTF	28	28	30 32	VTF	30	30	32 34	VTF	32	32	34 42	VTF	34	34	42 45	VTF	42	42	45 79	VTF	45	45	65 85
Ventilated Storm Collar	VSC	11	11	12 12	VSC	12	12	12 13	VSC	12	12	13 14	VSC	13	13	14 16	VSC	14	14	16 26	VSC	16	16	23 30
Ventilated Thimble Assembly	MVT	96	96	100 102	MVT	100	100	102 122	MVT	102	102	122 146	MVT	122	122	146 173	MVT	146	146	173 276	MVT	173	173	249 327
Ventilated Support Assembly	MRS	96	96	100 102	MRS	100	100	102 122	MRS	102	102	122 146	MRS	122	122	146 173	MRS	146	146	173 276	MRS	173	173	249 327
Pitched Thimble Assembly	PVT	-	-	-	PVT	-	-	-	PVT	-	-	-	PVT	-	-	-	PVT	-	-	-	PVT	-	-	-
<b>Terminations</b>																								
Closure Ring	CR	3	3	4 4	CR	4	4	4 4	CR	4	4	4 6	CR	4	4	6 7	CR	6	6	7 11	CR	7	7	10 13
Chimney Top	CT	-	-	-	CT	-	-	-	CT	-	-	-	CT	-	-	-	CT	-	-	-	CT	-	-	-
Stack Cap	SK	50	50	50 50	SK	55	55	55 55	SK	59	59	59 59	SK	67	67	67 67	SK	84	84	84 84	SK	101	101	101 101
Exit Cone	EC	34	41	49 64	EC	41	50	59 77	EC	47	57	68 89	EC	62	76	89 117	EC	78	95	112 147	EC	93	113	134 176
Flip Top	FL	-	-	-	FL	-	-	-	FL	-	-	-	FL	-	-	-	FL	-	-	-	FL	-	-	-
Miter Cut	MC	30	30	30 30	MC	34	34	34 34	MC	41	41	41 41	MC	50	50	50 50	MC	80	80	80 80	MC	98	98	98 98
<b>Miscellaneous</b>																								
Guy Section	GS	82	100	118 155	GS	81	106	125 164	GS	90	110	130 170	GS	101	123	145 191	GS	160	195	230 302	GS	184	224	265 348
Explosion Relief Valve	ER	-	-	-	ER	-	-	-	ER	-	-	-	ER	-	-	-	ER	-	-	-	ER	-	-	-
Vee Band	VB	4	4	4 4	VB	4	4	4 4	VB	4	4	4 4	VB	5	5	5 5	VB	5	5	5 5	VB	5	5	5 5
Overlapping Vee Band	OBV	4	4	4 4	OBV	4	4	4 4	OBV	4	4	4 4	OBV	5	5	5 5	OBV	5	5	5 5	OBV			

## Material Thickness - Model PS

Air Space	Size	Inner		Outer	
		Gauge*	Material	Gauge*	Material
1"	5" - 32"	20	.035" - 304 SS	24	.025" Alum Steel
		20	or .035" - 316 SS	24	or 304 & 316 SS
1"	36"	20	.035" - 304 SS	21	.034" Alum Steel
		20	or .035" - 316 SS	20	or .035" 304 & 316 SS
1"	42" - 48"	18	.048" - 304 SS	21	.034" Alum Steel
		18	or .048" - 304 & 316 SS	20	or .035" 304 & 316 SS

\* Gauge is approximate.

## Approximate Outer Pipe Surface Temperatures





Operating Temperatures and Clearances

Criteria	Type L Vent	Restaurant Grease Duct	Building Heating Appliance Chimney*	1400° F. Factory-Built Chimney
Application	Chimneys and stacks for appliances Listed suitable for venting with Type L or Type B venting systems.	Cooking Appliances Ventilation Hoods Restaurant Grease Ducts Pizza Oven Exhausts	Low and High Pressure Steam Boilers Diesel and Turbine Exhausts Building Heating Equipment	Industrial Furnaces Processing Equipment Kilns and Ovens Diesel and Turbine Exhausts
Maximum Operating Temperatures	550° F Continuous 1700° F. Intermittent	500° F. Continuous 2000° F. Intermittent	1000° F. Continuous 1400° F. Intermittent	1400° F. Continuous 1800° F. Intermittent
Clearances To Combustibles:  Model PS	N.A.	6, 8 & 10" I.D. – 5" 12" I.D. – 6" 14" I.D. – 7" 16" I.D. – 8" 18" I.D. – 9" 20" I.D. – 10" Over 20" I. D. – 18"	6"-36" I.D. – 6" Exterior –10" Interior  42"-48" I.D. – 6" Exterior – 18" Interior	Exterior and Interior  6"-24" I.D. – 15" Over 24" I.D. – 24"
Model IPSC1	5-24" I.D. – 3"	5-6" I.D. – 2" 8-16" I.D. – 3" 18-24" I.D. – 4" 26-32" I.D. – 5" 36" I.D. – 6" 42-48" I.D. – 7"	5-8" I.D. – 1" 10-16" I.D. – 2" 18-24" I.D. – 3" 26-32" I.D. – 4" 36" I.D. – 5" 42-48" I.D. – 6"	5-6" I.D. – 1" 8-16" I.D. – 2" 18-24" I.D. – 3" 26-32" I.D. – 4" 36" I.D. – 5" 42-48" I.D. – 6"
Models IPS C2 & C4	5-24" I.D. – 2"	5-6" I.D. – 1" 8-16" I.D. – 2" 18-24" I.D. – 3" 26-32" I.D. – 4" 36" I.D. – 5" 42-48" I.D. – 6"	5-16" I.D. – 1" 18-24" I.D. – 2" 26-32" I.D. – 3" 36" I.D. – 4" 42-48" I.D. – 5"	5-16" I.D. – 1" 18-24" I.D. – 2" 26-32" I.D. – 3" 36" I.D. – 4" 42-48" I.D. – 5"

\*Under the "Building Heating Appliance Chimney" Listing, 5" through 24" Model IPS have qualified for UL's additional, optional "Type HT" rating for chimneys for certain appliance venting applications; especially solid fuel.



# WARRANTY STATEMENTS

## 15&1 COMMERCIAL/INDUSTRIAL WARRANTY

### Standard 1-Year Warranty

Selkirk Corporation warrants the chimney and engine exhaust system and components against functional failure due to defects in material and workmanship for a period of one year from date of delivery to the construction site. Functional failure is defined as any failure of the system or component to perform its intended function of exhausting, without adverse leakage, combustion by-products from engine operation or heating equipment. During this period, any system or component supplied by Selkirk failing to perform its intended function will be repaired or replaced at the manufacturer's option, following determination by a factory-authorized inspector that a functional failure has occurred. This warranty is limited to repair or replacement of the product plus shipping cost to the failure location. This warranty does not cover any labor costs for removal or replacement of the defective product, nor does this warranty cover any system components not furnished by Selkirk and installed as part of the system.

This limited warranty is extended to the purchaser subject to the satisfaction of the following conditions:

- 1) Generally accepted engineering practices have been followed to determine that sizing and material specifications are suitable for the application and environment involved.
- 2) The undamaged components have been correctly installed in accordance with the installation instructions published by Selkirk at the time of shipment.
- 3) Damage is not a result of burning garbage, waste oil, #6 oil or any other prohibitive material in the appliance served by the venting system.

### Extended 15-Year Warranty

This limited warranty is extended to the purchaser for fifteen years, subject to the satisfaction of the following conditions:

- 1) System sizing and design has been performed by Selkirk personnel, and design parameters provided to Selkirk by the responsible engineer were and are accurately representative of the operating conditions.
- 2) The undamaged components have been correctly installed in accordance with system design and sizing as performed by Selkirk and installation instructions published by Selkirk at the time of shipment.
- 3) Proper precautions have been taken to insure that boiler or engine combustion air is free of solvent or refrigerant vapors or any halogenated compound which may cause acid condensates to form within the chimney.
- 4) Damage is not a result of burning garbage, waste oil, #6 oil or any other prohibitive material in the appliance served by the venting system.
- 5) Selkirk has supplied the entire chimney or exhaust system from boiler/engine outlet to the termination of the stack.
- 6) Prior to start-up and thereafter, exposed aluminized steel surfaces are protected with a minimum of one base coat of primer and one finish coat of heat-resistant and corrosive-resistant paint at all times. Stainless steel surfaces need not be primed or painted.

The Selkirk 15&1 Warranty applies to the following products: DF, DFS, G, ICA, IPS, PS, QC used in Commercial/Industrial/Institutional applications

### LIMITED LIFETIME WARRANTY FOR GREASE DUCT APPLICATIONS

Selkirk Corporation ("Selkirk Corp.", "Selkirk", "we", "us", "our") warrants to the original owner that Model: G, PS, IPS, Z3 and Zero Clear products installed in a grease duct application, are to be free from defects in material and workmanship for the life of the product when properly connected to and included as a part of a code compliant commercial kitchen ventilation system for cooking appliances and installed in accordance with our installation instructions and specifications.

- For products installed after January 1, 2008, for a period of Ten (10) years from original installation, we will provide replacement product to the original owner for the product proven defective with a similar or like quantity of available Selkirk Corp. product, free of charge.
- From the Eleventh (11) through Fifteenth (15) years we will provide replacement product to the original owner at a cost of 75% off of the Manufacturers Suggested List Price in effect on the date the claim is received.
- At expiration of the Fifteen (15) year term, we will provide replacement product to the original owner at a cost of 50% off of the Manufacturers Suggested List Price in effect on the date the claim is received.

WARNING: FAILURE TO INSTALL SELKIRK PRODUCTS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS WILL VOID ALL APPLICABLE WARRANTIES AND MAY RESULT IN FIRE, LOSS OF PROPERTY OR LIFE AND MAY VOID INSURANCE COVERAGE. SEE OUR SELKIRK CORP. GREASE DUCT INSTALLATION INSTRUCTIONS FOR COMPLETE INSTRUCTIONS. Call 1.800.992.8368 or visit our website at [www.selkirkcorp.com](http://www.selkirkcorp.com) for a free copy. WE DO NOT GUARANTEE OR IN ANY WAY WARRANT THE INSTALLATION OF SELKIRK PRODUCTS DUE TO THE WIDE VARIANCE IN INSTALLATION PRACTICES AND OTHER CONDITIONS BEYOND OUR CONTROL. THIS LIMITED WARRANTY DOES NOT COVER:

- (a) costs (labor or otherwise) associated with either removing a previously installed product, installing a replacement product, transportation or return of a product, or transportation of replacement product;
- (b) damage to the finish of products caused by the use of improper solvents/chemicals or improper cleaning methods;
- (c) damage resulting from failure to reasonably clean, care for or maintain products in accordance with our installation instructions/recommendations;
- (d) damage (to products, appliances or structure) based on or resulting from improper installation or repair, misuse or abuse (including, but not limited to, excessive or improper operating condition), or alteration or adjustments other than in conformity with our installation instructions and specifications, whether performed by a contractor, service company, technician, or yourself;
- (e) any products that have been moved from their original installation site;
- (f) damage to your grease duct that results from accidents such as fire, flood, high winds, "acts of God", or any other contingency beyond our control.
- (g) replacement of system sealants as a result of improper installation or a system grease fire.

#### Disclaimer:

Selkirk Metalbestos assumes no liability for incidental or consequential damages of any kind or for any damages resulting in whole or in part from misuse, improper installation, or inadequate maintenance of the system or any component part thereof. This warranty is in lieu of all other express warranties or guarantees of any kind. All implied warranties, including merchantability and fitness, are limited to the duration of the express warranty contained herein. Selkirk Metalbestos neither assumes nor does it authorize any other person to assume on its behalf any other liability in connection with the sale of its products.

#### CLAIM PROCEDURE:

If you believe that a product fails to meet the above limited warranty, notify us in writing at: SELKIRK CORPORATION, Attn: WARRANTY CLAIMS DEPARTMENT  
1301 W. President George Bush Hwy, #330, Richardson, TX 75080 Fax: 1.877.393.4145 Phone: 1.800.992.8368

Notification should include a description of the product, model and part number and how the product fails to meet the above warranty. Upon receipt of a written claim under this limited warranty and evidence of the date of purchase or installation, at our option and in our sole discretion, we will either repair or replace the product with similar or like quantity of available Selkirk Corp. product per this warranty. Selkirk Corp. reserves the right to inspect or investigate any warranty claims prior to determining whether to repair or replace a product. If, as determined by Selkirk Corp, repair or replacement of the product is not commercially practicable or cannot be completed in a timely manner, we may refund the prorated purchase price paid for the product upon verification by providing a copy of your invoice, receipt of bill of sale. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED IN DURATION TO THE WARRANTY PERIOD SPECIFIED ABOVE. WE DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES AND ANY LOSS OR EXPENSES(S), NOT SPECIFIED ABOVE. SOME STATES MAY NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE EXCLUSIONS OR LIMITATIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE LEGAL RIGHTS WHICH VARY FROM STATE TO STATE OR PROVINCE TO PROVINCE.

# When SIZE matters WE BUILD TO SUIT



Models **PS & IPS** are double-wall UL Listed design, factory engineered and built in sizes up to 48" ID. UL tested for positive pressure 60" WC.

**ZeroClear™** - Zero clearance grease duct

**Model G** - Single wall negative, neutral, or positive pressure pre-fab systems

**Model QC** - Type "B" gas vents

**Model DF** - Neutral or negative draft and oil vent

**Model DFS** - Building heating appliance chimney



## GET THE SELKIRK ADVANTAGE

*Models PS and IPS are manufactured by Selkirk Corporation a leading manufacturer of chimney, venting and air distribution products for the commercial and residential HVAC industries for more than 80 years. Selkirk manufactures products in the United States, Canada and Mexico. For more information, visit the our web site at [www.selkirkcorp.com](http://www.selkirkcorp.com)*

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