

DESIGN MANUAL

CORR/GUARD®



Special Gas Vent 6" - 36" Diameters

METAL-FAB

CORR/GUARD® SPECIAL GAS VENT

Advanced design that cuts cost and time on the job!

COMPLETE VENT LINE

- Including straight pipe lengths, adapters, elbows, tees, drain sections, support bands, flashing, caps and more. Single wall & double wall.
- 6" - 36" diameters; integral sleeve design.

UNS S44735 STAINLESS STEEL FLUE (i.e. AL29-4C)

- Exceeds corrosion resistance requirements in UL1738 - Standard for Venting Systems for Gas-Burning Appliances, Categories II, III, and IV.

SELECTION OF CASINGS

- Choose the most cost effective materials for the environment.
 - Aluminized Steel
 - 430 Stainless Steel
 - 304 Stainless Steel
 - 316 Stainless Steel

LIMITED LIFETIME WARRANTY



Integral Sleeve connections are formed to fit with precision at each connection.



All-welded construction provides liquid-tight performance and clean appearance.



Vee Band connectors are engineered for exact fit around flanges, providing a strong, liquid-tight connection.

Also available: Corr/Guard® in 3" - 5" diameters

- Leak-proof Viton gasket
- One-step connection and snap-lock
- Single Wall and Double Wall

See Corr/Guard 3"-5" Brochure L2158 available at www.metal-fabcommercial.com

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GENERAL INFORMATION

Pertinent information is consolidated in this publication to assist you with application information, codes and standards, dimensional information, support requirements and other data of special interest. It is our goal to enable you to select the proper product to meet the requirements of your project confidently and efficiently.

For additional information you may contact us via:

Web Site: www.metal-fabcommercial.com
Telephone: 316-943-2351
Toll Free Phone: 800-835-2830
Fax: 316-771-4168
E-mail: info@metal-fabcommercial.com

Complete information for proper and safe installations is found in the Metal-Fab Installation Instructions. (Literature No. L2591)

This design manual contains data to assist in the proper selection, design, and layout of venting systems using Metal-Fab models:

- **FCS** – Double Wall Special Gas Vent
- **FCSSW** – Single Wall Special Gas Vent
- **FCS-1** – Double Wall Insulated Special Gas Vent

CODES AND STANDARDS

Corr/Guard is listed to UL 1738, Standard for Venting Systems for Gas-Burning Appliances, Categories II, III, IV and ULC S636. These requirements cover venting systems intended for venting Category II, III, and IV gas-burning appliances as defined by the Standard for Gas-Fired Central Furnaces (except Direct Vent Central Furnaces), ANSI Z21.47 and the National Fuel Gas Code, NFPA 54. Venting systems covered by these requirements are intended to be used with Category II, III, and IV appliances that have been installed in accordance with NFPA 54, the ICC International Mechanical Code, the IAPMO Uniform Mechanical Code, and local codes.

Corr/Guard vent material is UNS S44735 (i.e. AL29-4C) superferritic stainless steel. This vent is intended for use wherever appliance manufacturers specify superferritic stainless steel as the required vent material and, vent gas temperatures do not exceed those listed in the Metal-Fab Installation Instructions and the Application section of this manual.

Venting system design may be limited by appliance performance. Consult appliance installation instructions to determine limitations such as maximum horizontal length, maximum vertical height, elbow and offset limitations, and number of appliances permitted in a common vent.

Model FCSSW chimney liner systems, sizes 6" thru 36" diameter is intended for use in masonry chimneys used to vent Category II, III, or IV gas-fired appliances. FCSSW is suitable for installation in masonry chimneys having no clearance between combustible construction and the outer chimney surface. Model PSW chimney lining system, sizes 6" thru 36" diameter are intended for use in masonry chimneys used to vent gas fired appliances equipped with draft hoods; appliances equipped with draft hoods; appliances intended for use with Type B gas vents. PSW is suitable for installation in masonry chimneys having no clearance between combustible construction and the outer chimney surface.



CORR/GUARD® PRODUCT INFORMATION

Corr/Guard 6" – 12" Diameters To determine metric dimensions: multiply inches X 25.4

| DESCRIPTION | DOUBLE WALL | SINGLE WALL |
|---|--|--|
| Max Operating Temperature Max Operating Pressure | 550° F (288 C) 15" w.g. | 550° F (288 C) 15" w.g. |
| Clearance to Combustibles ENCLOSED – VERTICAL @550°F (288 C) | 1" | Can Not Be Enclosed with Combustible Material |
| Clearance to Combustibles ENCLOSED – HORIZONTAL | Can Not Be Enclosed with Combustible Material | Can Not Be Enclosed with Combustible Material |
| Clearance to Combustibles UNENCLOSED HORZ. or VERT. @ 550° F (288 C) | 1" | 2" |
| JOINT CONNECTION | SLEEVED – P077 Sealant Required | SLEEVED – P077 Sealant Required |
| Flue Material Thickness | UNS S44735 (i.e. AL29-4C) 0.015" | UNS S44735 (i.e. AL29-4C) 0.015" |
| Casing Materials | Std- Aluminized Steel 0.018" Opt – 430 Stainless Steel 0.024" Opt – 304 Stainless Steel 0.024" Opt – 316 Stainless Steel 0.024" | Not Applicable |

Corr/Guard 14" – 24" Diameters To determine metric dimensions: multiply inches X 25.4

| DESCRIPTION | DOUBLE WALL | SINGLE WALL |
|---|--|--|
| Max Operating Temperature Max Operating Pressure | 550° F (288 C) 15" w.g. | 550° F (288 C) 15" w.g. |
| Clearance to Combustibles ENCLOSED – VERTICAL @550°F (288 C) | 1" | Can Not Be Enclosed with Combustible Material |
| Clearance to Combustibles ENCLOSED – HORIZONTAL | Can Not Be Enclosed with Combustible Material | Can Not Be Enclosed with Combustible Material |
| Clearance to Combustibles UNENCLOSED HORZ. or VERT. @ 550° F (288 C) | 14" – 18" = 2" 20" – 24" = 3" | 14" – 18" = 3" 20" – 24" = 4" |
| JOINT CONNECTION | SLEEVED – P077 Sealant Required | SLEEVED – P077 Sealant Required |
| Flue Material Thickness | UNS S44735 (i.e. AL29-4C) 0.024 | UNS S44735 (i.e. AL29-4C) 0.024 |
| Casing Materials | Std- Aluminized Steel Opt – 430 Stainless Steel Opt – 304 Stainless Steel Opt – 316 Stainless Steel 0.024" | Not Applicable |
| Thickness | | |

Corr/Guard 26" – 36" Diameters To determine metric dimensions: multiply inches X 25.4

| DESCRIPTION | DOUBLE WALL | SINGLE WALL |
|---|--|--|
| Max Operating Temperature Max Operating Pressure | 550° F (288 C) 15" w.g. | 550° F (288 C) 15" w.g. |
| Clearance to Combustibles ENCLOSED – VERTICAL @550°F (288 C) | 2" | Can Not Be Enclosed with Combustible Material |
| Clearance to Combustibles ENCLOSED – HORIZONTAL | Can Not Be Enclosed with Combustible Material | Can Not Be Enclosed with Combustible Material |
| Clearance to Combustibles UNENCLOSED HORZ. or VERT. @ 550° F (288 C) | 26" – 30" = 4" 32" – 36" = 5" | 26" – 30" = 5" 32" – 36" = 6" |
| JOINT CONNECTION | SLEEVED – P077 Sealant Required | SLEEVED – P077 Sealant Required |
| Flue Material Thickness | UNS S44735 (i.e. AL29-4C) 0.035 | UNS S44735 (i.e. AL29-4C) 0.035 |
| Casing Materials | Std- Aluminized Steel Opt – 430 Stainless Steel Opt – 304 Stainless Steel Opt – 316 Stainless Steel 0.035" | Not Applicable |
| Thickness | | |

DESIGN CONSIDERATIONS

When venting gas appliances always consult the appliance installation instructions. Horizontal runs, elbows, offsets, vertical height, may be limited by appliance performance specifications.

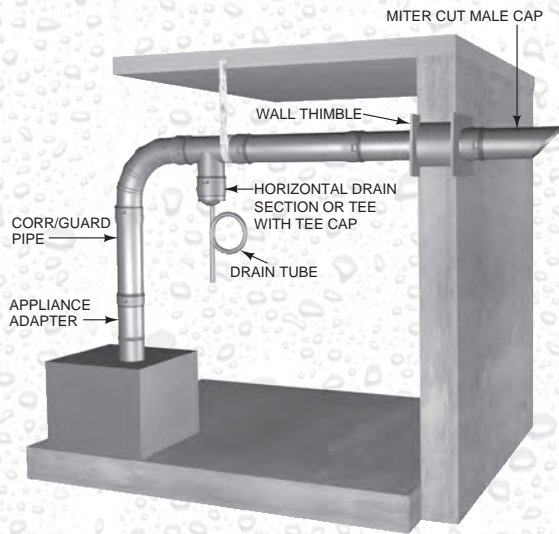
Horizontal runs must slope a minimum of ¼" : 12" (6mm-305mm). Neutral or negative pressure systems must slope upward – away from the appliance. Positive pressure within the vent may slope upward or downward. Provide for condensate drainage where required.

Vertical runs are directional-specific and must be properly supported. Supports are required above every offset to prevent vertical loading on elbows.

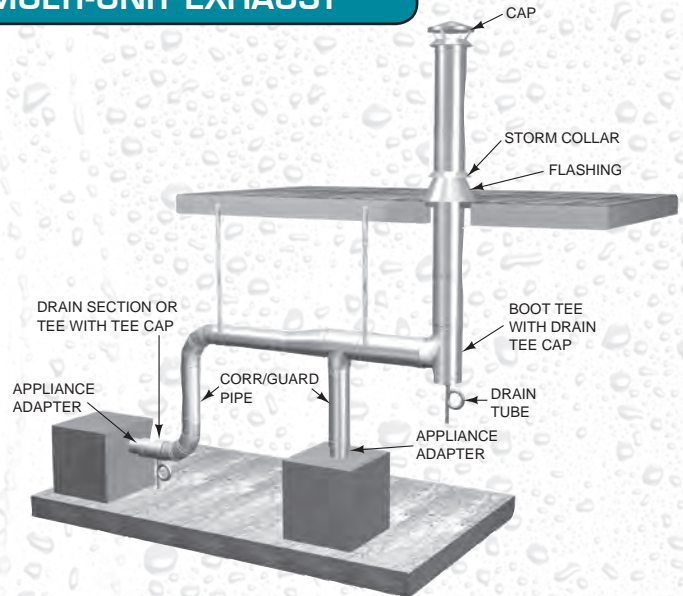
NOTE:

For Additional Information
See Corr/Guard Installation Instructions, No. L2591
Available at: www.metal-fabcommercial.com

SIDEWALL EXHAUST



MULTI-UNIT EXHAUST



COMPONENTS

Corr/Guard is identified as "FCSSW" and "FCS" designating the integral sleeve design incorporated in 6" – 36" diameters.

Corr/Guard is available in a multitude of material options to address your unique applications. To facilitate the ordering process we have a designated "CTO" code which allows you to **C**onfigure **I**n **O**rder. The CTO code consists of three (3) designators. The 1st identifies flue material; the 2nd identifies outer casing material, and the 3rd, a 0 or 1 indicates if the product is "air" or "ceramic fiber" insulated.

Selections

| FLUE | CASING | INSULATION |
|----------------------------------|---|--|
| C – UNS S44735 (i.e. AL29-4C) | A – ALUMINIZED STEEL 3 – 430 STAINLESS 4 – 304 STAINLESS 6 – 316 STAINLESS | 0 – Air Insulated 1 – Ceramic Insulated |

Example:

You have selected a 6" diameter pipe section, 36" in length, double wall construction, with a 430 stainless casing with ceramic fiber insulation. The part number is 6 (diameter)-FCS (sleeved Corr/Guard) 36" length. Additionally, you have selected the CTO code: C (UNS S44735 [i.e. AL29-4C] Stainless Flue) - 3 (430 Stainless Casing) -1 (Ceramic Insulated).

The complete designation is: 6FCS36 – C31.

CORROSION RESISTANCE

Corr/Guard products are designed for use on today's highly efficient condensing appliances. UNS S44735 (i.e. AL29-4C), a Superferritic Stainless Steel was the first steel to successfully exceed the requirements of UL 1738, "Standard For Venting Systems For Gas-Burning Appliances, Categories II, III, and IV." It is considered the benchmark for condensing flue materials.

FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

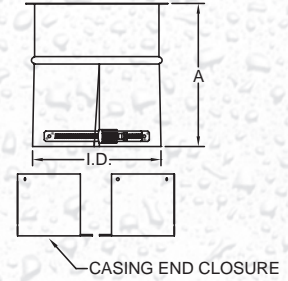
SINGLE WALL BOILER ADAPTER (SBA)

Flow Resistance K = same as pipe.

6" - 24": A = 7" (178)

26" - 36": A = 6" (152)

Used to attach pipe to straight shank outlets. Attaches around exterior of collar. FCS SBA includes closure band. Not required on FCSSW.



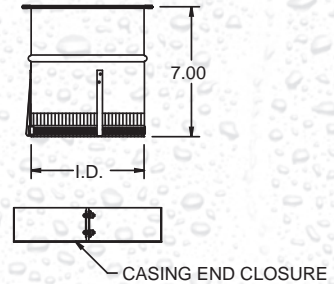
SINGLE WALL BOILER ADAPTER – INSIDE (SBAI)

6" – 24" Diameters

Flow Resistance K = same as pipe.

Used on vertical outlets when appliance incorporates condensate drain.

NOTE: Not available above 24".



REDUCER COLLAR (RC)

6" – 24" Diameters

Flow Resistance K = same as pipe.

A: Inlet Diameter

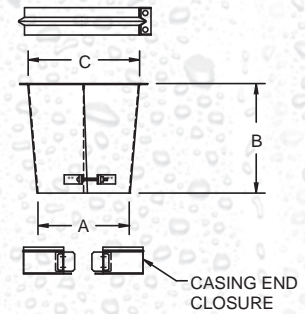
B: Component Length = 7"

C: Outlet Diameter

Used to attach pipe to an outlet source smaller than pipe diameter.

Specify dimensions when ordering.

Example: 8FCS7RC



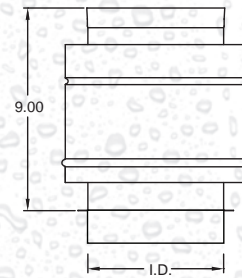
FEMALE FLANGE CONNECTOR (FFC)

6" – 24" Diameters

Flow Resistance K = same as pipe.

Used to transition from FCS to CG

NOTE: Not available in 7" & 9" diameters.



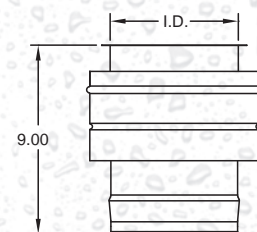
MALE FLANGE CONNECTOR (MFC)

6" – 24" Diameters

Flow resistance K = same as pipe.

Used to transition from CG to FCS

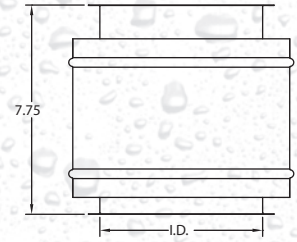
NOTE: Not available in 7" & 9" diameters.



FEMALE TO FEMALE ADAPTER (DFA)

6" – 24" Diameters

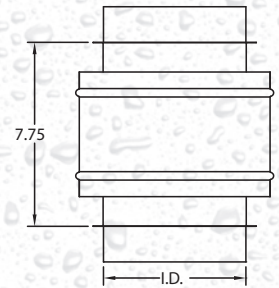
Used to change direction of slope.



MALE TO MALE ADAPTER (DMA)

6" – 24" Diameters

Used to change direction of slope.

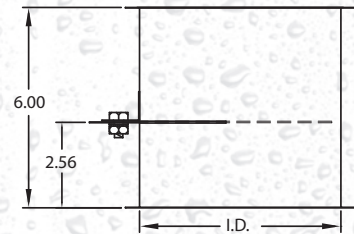


BLAST GATE (BG)

6" – 12" Diameters

Used for balancing pressures in a common vent system.

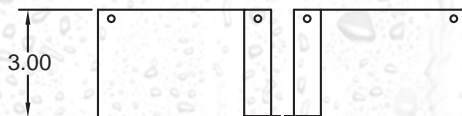
Note: Available in single wall only.



CASING END CLOSURE (CEC)

Used as an end cover when transitioning from single wall to double wall construction. Attaches to casing with sheet metal screws.

Note: 26" - 36" Casing End Closure clamps around casing bead.



6" – 24" Diameters



26" – 36" Diameters

FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

PIPE LENGTHS

Flow Resistance $K=0.4 \left(\frac{L}{D}\right)$ for 6"(152) - 16"(406) diameters

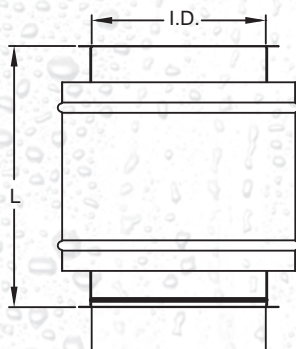
Flow Resistance $K=0.3 \left(\frac{L}{D}\right)$ for 18"(457) - 36"(914) diameters

Flow Resistance $K=0.25 \left(\frac{L}{D}\right)$ for Engine and turbine exhausts,

L = pipe length in feet

I.D. = pipe diameter in inches

- NOTES:**
1. Deduct 1-1/4" for installed length.
 2. Custom lengths available, contact factory.



| STRAIGHT LENGTH 6" THRU 36" | |
|--------------------------------|----------------------|
| PIPE LENGTHS | INSTALLED LENGTH (L) |
| 9.00" (229) | 7.75" (197) |
| 12.00" (305) | 10.75" (273) |
| 18.00" (457) | 16.75" (425) |
| 24.00" (610) | 22.75" (578) |
| 36.00" (914) | 34.75" (883) |

| PIPE I.D. | PIPE O.D. |
|------------------|------------------|
| FCSSW | FCS |
| 6" (152) | 8" (203) |
| 7" (178) | 9" (229) |
| 8" (203) | 10" (254) |
| 9" (229) | 11" (279) |
| 10" (254) | 12" (305) |
| 12" (305) | 14" (356) |
| 14" (356) | 16" (406) |
| 16" (407) | 18" (457) |
| 18" (457) | 20" (508) |
| 20" (508) | 22" (559) |
| 22" (559) | 24" (610) |
| 24" (610) | 26" (660) |
| 26" (661) | 28" (711) |
| 28" (711) | 30" (762) |
| 30" (762) | 32" (813) |
| 32" (813) | 34" (864) |
| 34" (864) | 36" (914) |
| 36" (914) | 38" (965) |

VARIABLE LENGTH (VL22)

6" – 24" Diameters

Flow Resistance $K = .4\left(\frac{L}{D}\right)$

L = pipe length in feet

I.D. = flue diameter

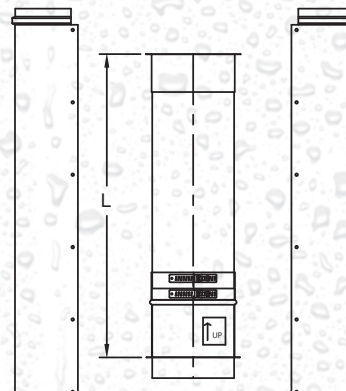
Used to fill gaps between standard length components. Does not allow for thermal expansion.

INSTALLED LENGTH (L)

VL22

Minimum: 9" (229)

Maximum: 22" (559)



VARIABLE LENGTH (VL10/VL22)

26" – 36" Diameters

Flow Resistance $K = .4 \left(\frac{L}{D}\right)$

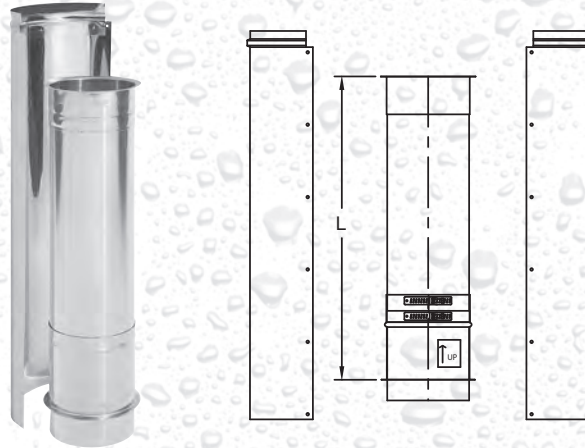
L = pipe length in feet

I.D. = flue diameter

Used to fill gaps between standard length components. Does not allow for thermal expansion.

INSTALLED LENGTH (L)

| | VL10 | VL22 |
|----------|-----------|-----------|
| Minimum: | 7" (178) | 7" (178) |
| Maximum: | 10" (254) | 22" (559) |



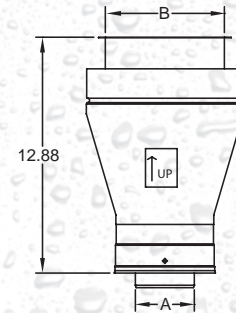
TAPERED INCREASER (TI)

3" Diameter

Used to transition from CG to FCS.

| A | | B | |
|-------|------|-------|-------|
| 3.00" | (76) | 6.00" | (152) |

Dimensions in inches (mm).



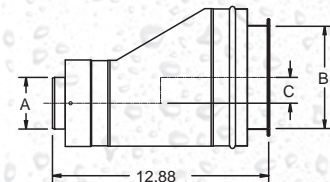
ECCENTRIC TAPERED INCREASER (EI)

4" – 5" Diameters

Used to transition from CG to FCS.

| A | | B | | C | |
|-------|-------|-------|-------|-------|------|
| 4.00" | (102) | 6.00" | (152) | 1.00" | (25) |
| 5.00" | (127) | 6.00" | (152) | 0.50" | (13) |

Dimensions in inches (mm).



TAPERED INCREASER (TI)

Flow Resistance $K = .51 \frac{[1 - (\frac{A}{C})^2]^2}{(\frac{A}{C})^4}$

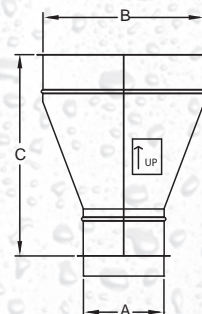
A = Inlet Diameter

B = Outlet Diameter

C = Installed Length – See Table

NOTE: ½ Step = 1" increase in diameter;
1 Step = 2" increase in diameter

| Steps | ½ - 3 | 3 ½ - 6 |
|------------|-----------|-----------|
| "C" Length | 15" (381) | 20" (508) |



When ordering, specify inlet and outlet diameters with inlet diameter first.

Example: 12FCSTI14

ECCENTRIC TAPERED INCREASER (EI)

$$\text{Flow Resistance } K = .51 \frac{[1 - (\frac{A}{C})]^2}{(\frac{A}{C})^4}$$

A = Inlet Diameter

B = Outlet diameter

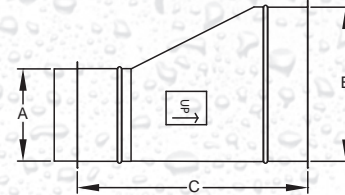
C = Installed Length – See Table

NOTE: ½ Step = 1" increase in diameter;
1 Step = 2" increase in diameter

| | | | |
|------------|-----------|-----------|-----------|
| Steps | ½ - 2 | 2 ½ - 4 | 4.5 - 6 |
| "C" Length | 15" (381) | 21" (534) | 28" (712) |

When ordering, specify inlet and outlet diameters with inlet diameter first.

Example: 12FCSE14



TAPERED REDUCER (R)

6" – 24" Diameters

$$\text{Flow Resistance } K = .16 \frac{[1 - (\frac{A}{C})]^2}{(\frac{A}{C})^4}$$

A = Inlet Diameter

B = Outlet Diameter

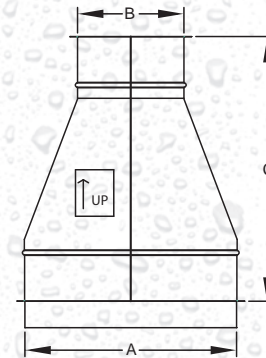
C = Installed Length – See Table

NOTE: ½ Step = 1" decrease in diameter;
1 Step = 2" decrease in diameter

| | | |
|------------|-----------|-----------|
| Steps | 6 - 3 ½ | 3 - ½ |
| "C" Length | 20" (508) | 15" (381) |

When ordering, specify inlet and outlet diameters with inlet diameter first.

Example: 14FCR12



ECCENTRIC REDUCER (ER)

6" – 24" Diameters

$$\text{Flow Resistance } K = .16 \frac{[1 - (\frac{A}{C})]^2}{(\frac{A}{C})^4}$$

A = Inlet Diameter

B = Outlet diameter

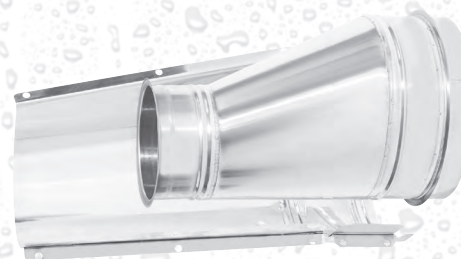
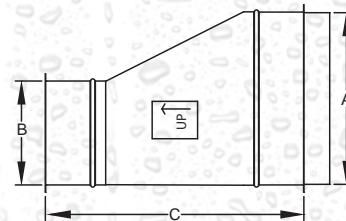
C = Installed Length – See Table

NOTE: ½ Step = 1" decrease in diameter;
1 Step = 2" decrease in diameter

| | | | |
|------------|-----------|-----------|-----------|
| Steps | 6 - 4 ½ | 4 - 2 ½ | 2 - ½ |
| "C" Length | 28" (712) | 21" (534) | 15" (381) |

When ordering, specify inlet and outlet diameters with inlet diameter first.

Example: 14FCSER12



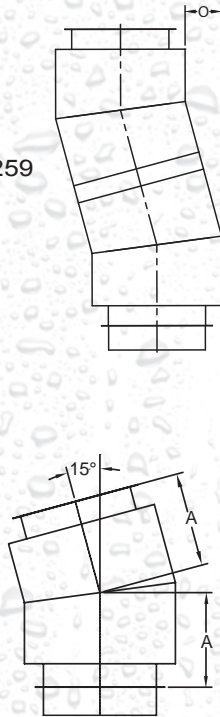
FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

15° ELBOW (15L)

Flow Resistance K = 0.06

Offset Distance:
 $O = 2 \times "A" \times 0.259$

Offset distance with
 pipe length between elbows:
 $O = (2 \times "A" + \text{pipe length}) \times 0.259$

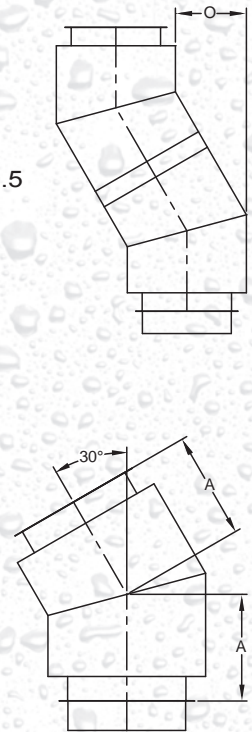


30° ELBOW (30L)

Flow Resistance K = 0.12

Offset Distance:
 $O = 2 \times "A" \times 0.5$

Offset distance with
 pipe length between elbows:
 $O = (2 \times "A" + \text{pipe length}) \times 0.5$



| PIPE I.D. | | A | |
|-----------|-------|-------------|-------|
| | | FCSSW / FCS | |
| 6" | (152) | 4.56" | (116) |
| 7" | (178) | 4.63" | (118) |
| 8" | (204) | 4.68" | (119) |
| 9" | (229) | 4.75" | (121) |
| 10" | (254) | 4.88" | (124) |
| 12" | (305) | 5.00" | (127) |
| 14" | (356) | 5.13" | (130) |
| 16" | (406) | 5.25" | (133) |
| 18" | (457) | 5.38" | (137) |
| 20" | (508) | 5.50" | (140) |
| 22" | (559) | 5.63" | (143) |
| 24" | (610) | 5.75" | (146) |
| 26" | (660) | 8.50" | (216) |
| 28" | (711) | 8.50" | (216) |
| 30" | (762) | 8.50" | (216) |
| 32" | (813) | 8.50" | (216) |
| 34" | (864) | 8.50" | (216) |
| 36" | (914) | 8.50" | (216) |

Dimensions in inches (mm).

| PIPE I.D. | | A | |
|-----------|-------|-------------|-------|
| | | FCSSW / FCS | |
| 6" | (152) | 5.00" | (127) |
| 7" | (178) | 5.13" | (130) |
| 8" | (204) | 5.25" | (133) |
| 9" | (229) | 5.38" | (137) |
| 10" | (254) | 5.50" | (140) |
| 12" | (305) | 5.75" | (146) |
| 14" | (356) | 6.06" | (154) |
| 16" | (406) | 6.38" | (162) |
| 18" | (457) | 6.63" | (168) |
| 20" | (508) | 6.88" | (175) |
| 22" | (559) | 7.13" | (181) |
| 24" | (610) | 7.38" | (187) |
| 26" | (660) | 8.50" | (216) |
| 28" | (711) | 8.50" | (216) |
| 30" | (762) | 8.50" | (216) |
| 32" | (813) | 8.50" | (216) |
| 34" | (864) | 8.50" | (216) |
| 36" | (914) | 8.50" | (216) |

Dimensions in inches (mm).

FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

45° ELBOW (45L)

Flow Resistance K = 0.15

Offset Distance:

$$O = 2 \times "A" \times 0.707$$

Offset Distance with pipe length between elbows:

$$O = (2 \times "A" + \text{pipe length}) \times 0.707$$



| PIPE I.D. | | A | |
|-----------|-------|-------------|-------|
| | | FCSSW / FCS | |
| 6" | (152) | 5.44" | (138) |
| 7" | (178) | 5.63" | (143) |
| 8" | (204) | 5.86" | (149) |
| 9" | (229) | 6.06" | (154) |
| 10" | (254) | 6.26" | (159) |
| 12" | (305) | 6.76" | (172) |
| 14" | (356) | 7.13" | (181) |
| 16" | (406) | 7.51" | (191) |
| 18" | (457) | 7.94" | (202) |
| 20" | (508) | 8.32" | (211) |
| 22" | (559) | 8.76" | (223) |
| 24" | (610) | 9.26" | (235) |
| 26" | (660) | 11.75" | (299) |
| 28" | (711) | 11.75" | (299) |
| 30" | (762) | 11.75" | (299) |
| 32" | (813) | 11.75" | (299) |
| 34" | (864) | 11.75" | (299) |
| 36" | (914) | 11.75" | (299) |

Dimensions in inches (mm).

90° ELBOW (90L)

Flow Resistance K:

$$6" - 8" = 0.38$$

$$9" - 18" = 0.42$$

$$20" - 26" = 0.54$$

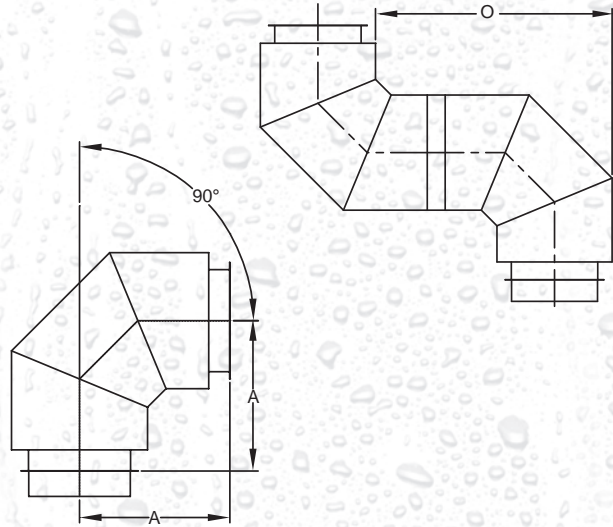
$$28" - 36" = 0.72$$

Offset Distance:

$$O = 2 \times "A"$$

Offset Distance with pipe length between elbows:

$$O = 2 \times "A" + \text{pipe length}$$



| PIPE I.D. | | A | |
|-----------|-------|-------------|-------|
| | | FCSSW / FCS | |
| 6" | (152) | 8.88" | (226) |
| 7" | (178) | 9.38" | (238) |
| 8" | (203) | 9.88" | (251) |
| 9" | (229) | 10.38" | (264) |
| 10" | (254) | 10.88" | (276) |
| 12" | (305) | 11.88" | (302) |
| 14" | (356) | 12.88" | (327) |
| 16" | (406) | 13.88" | (353) |
| 18" | (457) | 14.88" | (378) |
| 20" | (508) | 15.88" | (403) |
| 22" | (559) | 16.88" | (429) |
| 24" | (610) | 17.88" | (454) |
| 26" | (660) | 21.00" | (533) |
| 28" | (711) | 22.00" | (559) |
| 30" | (762) | 23.00" | (584) |
| 32" | (813) | 24.00" | (610) |
| 34" | (864) | 25.00" | (635) |
| 36" | (914) | 26.00" | (660) |

Dimensions in inches (mm).

BOOT TEE (BT)

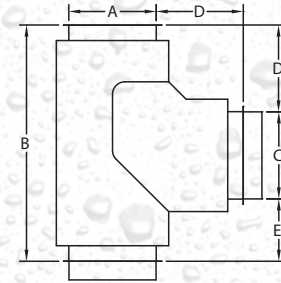
6" – 24" Diameters

Flow Resistance $K = 0.65$

- A = Pipe I.D.
- B = "C" I.D. + 12"
- C = Tap I.D.
- D = 7"
- E = 5"

NOTES:

1. Specify tap diameter (C) at time of order.
2. Tap can be reduced by 1-4 steps as standard.



BOOT TEE W/ DRAIN (BTD)

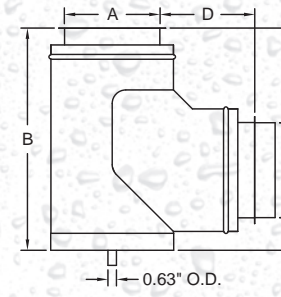
6" – 24" Diameters

Flow Resistance $K = 0.65$

- A = Pipe I.D.
- B = "C" I.D. + 9.375"
- C = Tap I.D.
- D = 7"
- E = 2.375"

NOTES:

1. Specify tap diameter (C) at time of order.
2. Tap can be reduced by 1-4 steps as standard.



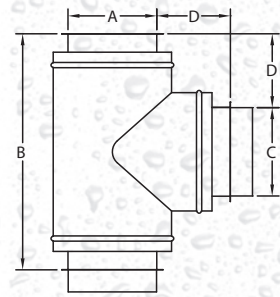
90° TEE (T)

Flow Resistance $K = 1.25$

- A = Pipe I.D.
- B = "C" I.D. + 10"
- C = Tap I.D.
- D = 5"

NOTES:

1. Specify tap diameter (C) at time of order.
2. Tap can be reduced by 1-4 steps as standard.



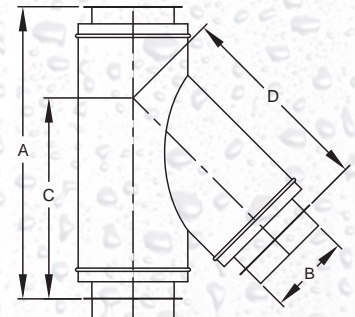
45° TEE (45T)

Flow Resistance $K = 0.4$

Used for low resistance flow into vertical or horizontal run.

NOTES:

1. Specify tap diameter (B) at time of order.
2. Tap can be reduced by 1-4 steps as standard.
3. For dimensional information see tables on page 28.



FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

DOUBLE LATERAL (DL)

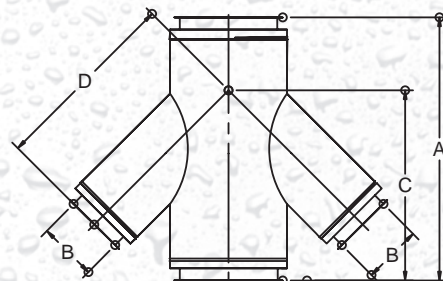
26" – 36" Diameters

Flow Resistance $K = 0.4$

Used to centrally connect two appliances manifolded into a common chimney.

NOTES:

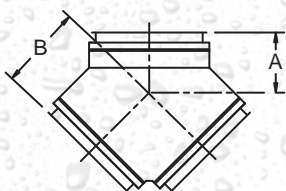
1. Specify tap diameter (B) when ordering; tap diameter must be less than body diameter.
2. Tap can be reduced by 1-4 steps as standard.
3. For dimensional information see tables on page 28.



90° WYE (90Y)

26" – 36" Diameters

Flow Resistance $K = 0.6$



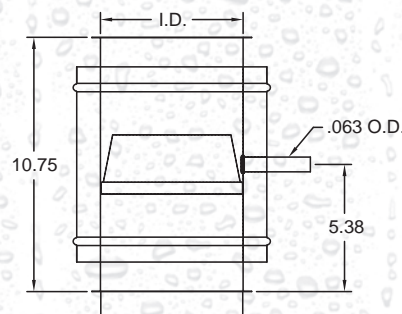
| PIPE I.D. | FCSSW / FCS | |
|-----------|--------------|--------------|
| | A | B |
| 26" (660) | 9.37" (238) | 19.00" (483) |
| 28" (711) | 9.75" (248) | 20.00" (508) |
| 30" (762) | 10.25" (261) | 21.00" (533) |
| 32" (813) | 10.62" (270) | 22.00" (559) |
| 34" (864) | 11.12" (283) | 23.00" (584) |
| 36" (914) | 11.50" (292) | 24.00" (610) |

DRAIN SECTION (DS)

6" – 24" Diameters

Flow Resistance $K = 0.25$

Used to drain rain water or condensation from inside the stack.

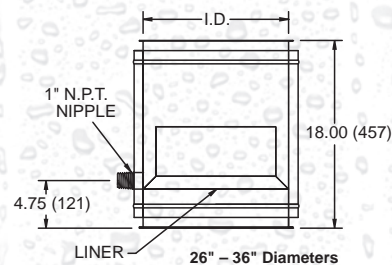


DRAIN SECTION (DS)

26" – 36" Diameters

Flow Resistance $K = 0.25$

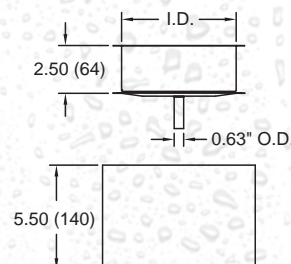
Used to drain rain water or condensation from inside the stack.



DRAIN TEE CAP W/CASING END CLOSURE (TC)

6" – 24" Diameters

Used as a drain port for rain or condensation.

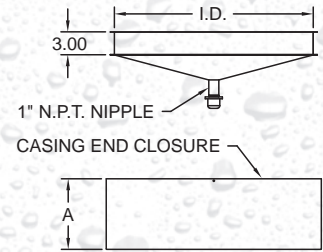


FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

DRAIN TEE CAP W / CASING END CLOSURE (TC)

26" – 36" Diameters

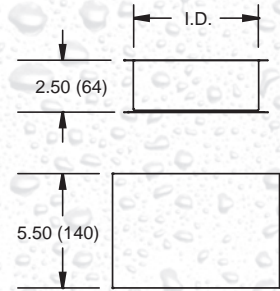
Used as a drain port for rain or condensation.



TEE CAP LESS DRAIN W / CASING END CLOSURE (TCN)

6" – 24" Diameters

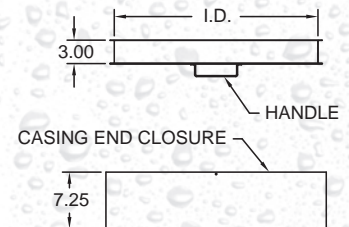
Used to close and seal unused port of Tees, Wyes and Laterals.



TEE CAP LESS DRAIN W / CASING END CLOSURE (TCN)

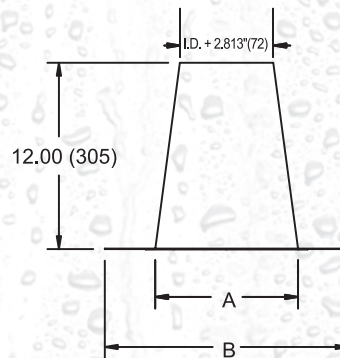
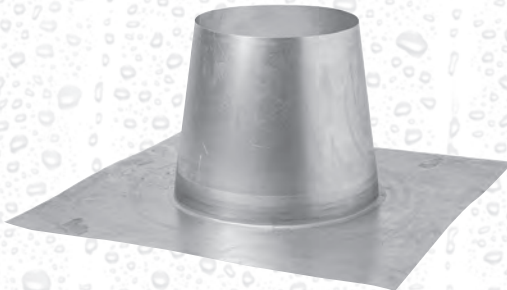
26" – 36" Diameters

Used to close and seal unused port of Tees, Wyes and Laterals.



TALL CONE FLASHING (F)

Used for flat roof applications.



| PIPE I.D. | | FCSSW/FCS | | | |
|-----------|-------|-----------|--------|--------|--------|
| | | A | | B | |
| 6" | (152) | 12.00" | (305) | 24.00" | (610) |
| 7" | (178) | 13.00" | (330) | 25.00" | (635) |
| 8" | (203) | 14.00" | (356) | 26.00" | (660) |
| 9" | (229) | 15.00" | (381) | 27.00" | (686) |
| 10" | (254) | 16.00" | (407) | 28.00" | (712) |
| 12" | (305) | 18.00" | (458) | 30.00" | (762) |
| 14" | (356) | 20.00" | (508) | 32.00" | (813) |
| 16" | (406) | 22.00" | (559) | 34.00" | (864) |
| 18" | (457) | 24.00" | (610) | 36.00" | (915) |
| 20" | (508) | 26.00" | (660) | 38.00" | (966) |
| 22" | (559) | 28.00" | (712) | 40.00" | (1016) |
| 24" | (610) | 30.00" | (762) | 42.00" | (1067) |
| 26" | (660) | 32.00" | (813) | 44.00" | (1118) |
| 28" | (712) | 34.00" | (864) | 46.00" | (1168) |
| 30" | (762) | 36.00" | (914) | 48.00" | (1219) |
| 32" | (813) | 38.00" | (965) | 50.00" | (1270) |
| 34" | (864) | 40.00" | (1016) | 52.00" | (1321) |
| 36" | (914) | 42.00" | (1067) | 54.00" | (1372) |

Dimensions in inches (mm).

FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

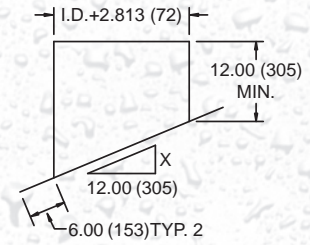
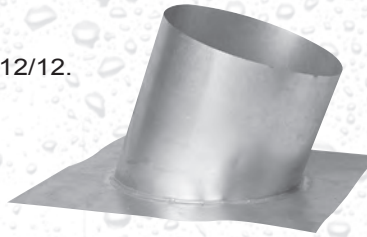
FIXED PITCH FLASHING (FPF)

NOTE:

X=PITCH RATE, AVAILABLE RATES 1/12-12/12.
Please specify pitch rate with order.

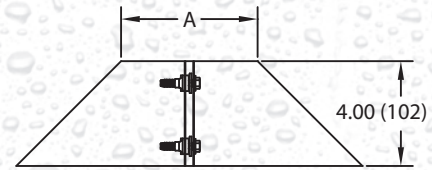
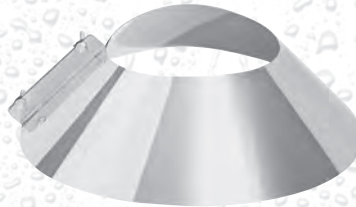
When ordering, specify pipe diameter followed by pitch rate.

Example: 6FCSFPF4



STORM COLLAR (SC)

A = Pipe Diameter (O.D.)

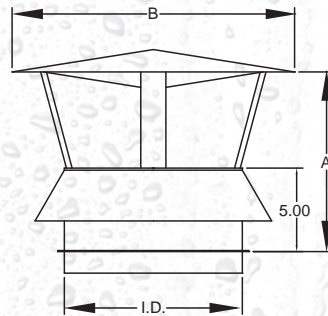
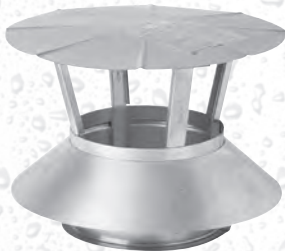


STACK CAP (C/CB)

Flow resistance K = 0.5

Provides partial rain protection. Use of Drain Tee Cap (TC) or Drain Section (DS) is recommended.

NOTES: Also available with bird screen order as (CB).
26"-36" diameters are custom; please contact factory.



| PIPE I.D. | A | B |
|-----------|--------------|---------------|
| 6" (152) | 9.50" (241) | 11.00" (280) |
| 7" (178) | 10.50" (267) | 12.50" (318) |
| 8" (203) | 11.50" (292) | 14.00" (356) |
| 9" (229) | 12.75" (324) | 15.50" (394) |
| 10" (254) | 13.50" (343) | 17.00" (432) |
| 12" (305) | 14.50" (368) | 21.00" (533) |
| 14" (356) | 15.50" (394) | 24.00" (610) |
| 16" (407) | 17.50" (445) | 28.00" (712) |
| 18" (458) | 18.50" (470) | 31.00" (787) |
| 20" (508) | 20.50" (521) | 34.00" (864) |
| 22" (559) | 21.50" (546) | 38.00" (965) |
| 24" (610) | 23.50" (597) | 41.00" (1041) |
| 26" (660) | 25.50" (648) | 44.00" (1118) |
| 28" (712) | 27.50" (699) | 48.00" (1219) |
| 30" (762) | 29.50" (749) | 51.00" (1295) |
| 32" (813) | 31.50" (800) | 54.00" (1372) |
| 34" (864) | 33.50" (851) | 58.00" (1473) |
| 36" (914) | 35.50" (902) | 61.00" (1549) |

Dimensions in inches (mm).

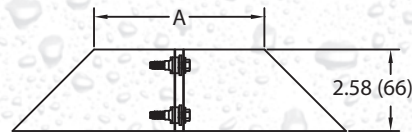
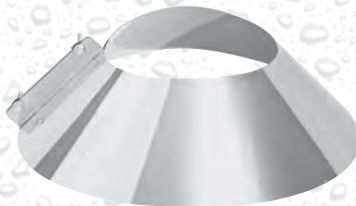
FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

CLOSURE RING (CR)

A = Pipe Diameter (I.D.)

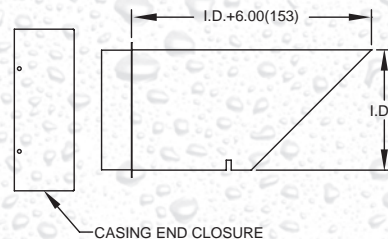
Used to attach to flue and shield annular space from the weather when open stack is desired.

NOTE: Provide a Tee Cap (TC) or Drain Section (DS) for moisture removal.



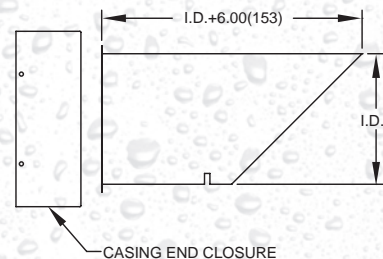
MITER CUT MALE (MCM)

Used for horizontal termination sloping toward the appliance. Standard with bird screen.



MITER CUT FEMALE (MCF)

Used for horizontal termination sloping away from the appliance. Standard with bird screen.



EXIT CONE (EC)

6" – 24" Diameters

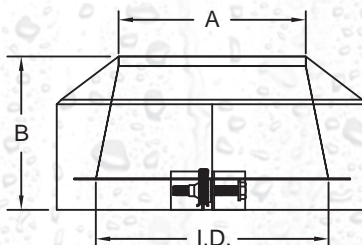
Flow resistance $K = 1.25$

Used to increase velocity of exiting flue gases. Provide for moisture removal with Tee Cap or Drain Section.



| PIPE I.D. | A | B | PIPE I.D. | A | B |
|-----------|--------------|--------------|-----------|--------------|--------------|
| 6" (152) | 6.00" (152) | 4.50" (114) | 14" (356) | 14.00" (356) | 12.50" (318) |
| 7" (178) | 7.00" (178) | 5.50" (140) | 16" (407) | 16.00" (407) | 14.50" (368) |
| 8" (203) | 8.00" (203) | 6.50" (165) | 18" (458) | 18.00" (457) | 16.50" (419) |
| 9" (229) | 9.00" (229) | 7.50" (191) | 20" (508) | 20.00" (508) | 18.50" (470) |
| 10" (254) | 10.00" (254) | 8.50" (216) | 22" (559) | 22.00" (559) | 20.50" (521) |
| 12" (305) | 12.00" (305) | 10.50" (267) | 24" (610) | 24.00" (597) | 22.50" (572) |

Dimensions in inches (mm).



FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

WALL PENETRATOR KIT (WPK)

Used for horizontal wall penetrations, designed for non-fire rated walls. (Zinc Plated)



Framing dimension I.D. + 6"

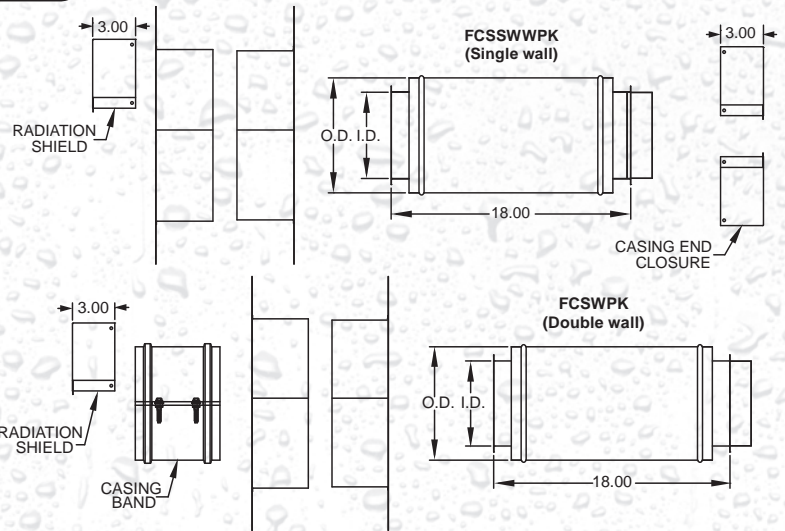
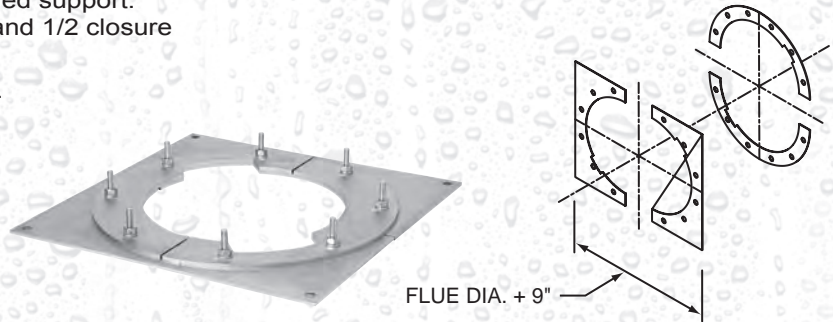


PLATE SUPPORT (PS)

Provides vertical or horizontal anchored support. Includes split plates, clamp flanges, and 1/2 closure bands. (Zinc Plated)

Do not exceed "X" between supports.

| | |
|-----------------|----------|
| 6" – 12" FCSSW | X = 100' |
| 14" – 24" FCSSW | X = 75' |
| 26" – 36" FCSSW | X = 100' |
| 6" – 12" FCS | X = 50' |
| 14" – 24" FCS | X = 30' |
| 26" – 36" FCS | X = 100' |



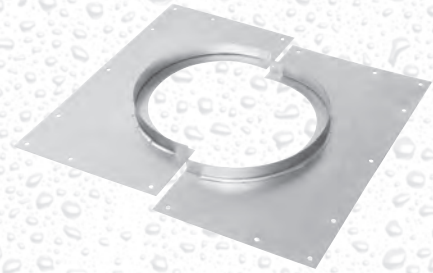
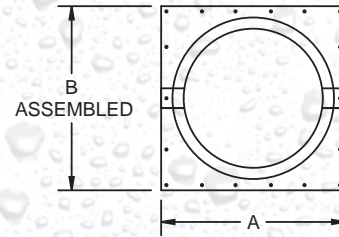
NOTE: Does not allow for thermal expansion.

FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

FIRESTOP (FS)

| PIPE I.D. | | FCSSW | | | | FCS | | | |
|-----------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | A | | B | | A | | B | |
| 6" | (152) | 16.00" | (407) | 16.00" | (407) | 18.00" | (458) | 18.00" | (458) |
| 7" | (178) | 17.00" | (432) | 17.00" | (432) | 19.00" | (483) | 19.00" | (483) |
| 8" | (203) | 18.00" | (458) | 18.00" | (458) | 20.00" | (508) | 20.00" | (508) |
| 9" | (229) | 19.00" | (483) | 19.00" | (483) | 21.00" | (533) | 21.00" | (533) |
| 10" | (254) | 20.00" | (508) | 20.00" | (508) | 22.00" | (559) | 22.00" | (559) |
| 12" | (305) | 22.00" | (559) | 22.00" | (559) | 24.00" | (610) | 24.00" | (610) |
| 14" | (356) | 24.00" | (610) | 24.00" | (610) | 26.00" | (660) | 26.00" | (660) |
| 16" | (406) | 26.00" | (660) | 26.00" | (660) | 28.00" | (712) | 28.00" | (712) |
| 18" | (457) | 28.00" | (712) | 28.00" | (712) | 30.00" | (762) | 30.00" | (762) |
| 20" | (508) | 30.00" | (762) | 30.00" | (762) | 32.00" | (813) | 32.00" | (813) |
| 22" | (559) | 32.00" | (813) | 32.00" | (813) | 34.00" | (864) | 34.00" | (864) |
| 24" | (610) | 34.00" | (864) | 34.00" | (864) | 36.00" | (914) | 36.00" | (914) |
| 26" | (660) | 36.00" | (914) | 36.00" | (914) | 38.00" | (965) | 38.00" | (965) |
| 28" | (711) | 38.00" | (966) | 38.00" | (965) | 40.00" | (1016) | 40.00" | (1016) |
| 30" | (762) | 40.00" | (1016) | 40.00" | (1016) | 42.00" | (1067) | 42.00" | (1067) |
| 32" | (813) | 42.00" | (1067) | 42.00" | (1067) | 44.00" | (1118) | 44.00" | (1118) |
| 34" | (864) | 44.00" | (1118) | 44.00" | (1118) | 46.00" | (1168) | 46.00" | (1168) |
| 36" | (914) | 46.00" | (1168) | 46.00" | (1168) | 48.00" | (1219) | 48.00" | (1219) |

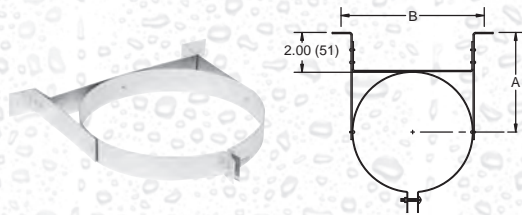
Dimensions in inches (mm).



WALL BAND (WB)

6" – 16" Diameters

For interior use only. Do not exceed 8' 0" between supports.



| PIPE I.D. | | FCSSW | | | | FCS | | | |
|-----------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| | | A | | B | | A | | B | |
| 6" | (152) | 5.00" | (127) | 7.07" | (180) | 6.00" | (152) | 9.07" | (230) |
| 7" | (178) | 5.50" | (140) | 8.07" | (205) | 6.50" | (165) | 10.07" | (256) |
| 8" | (204) | 6.00" | (152) | 9.07" | (230) | 7.00" | (178) | 11.07" | (281) |
| 9" | (229) | 6.50" | (165) | 10.07" | (256) | 7.50" | (191) | 12.07" | (307) |
| 10" | (254) | 7.00" | (178) | 11.07" | (281) | 8.00" | (204) | 13.07" | (332) |
| 12" | (305) | 8.00" | (203) | 13.07" | (332) | 9.00" | (229) | 15.07" | (383) |
| 14" | (356) | N/A | | N/A | | 10.00" | (254) | 17.07" | (434) |
| 16" | (406) | N/A | | N/A | | 11.00" | (279) | 19.07" | (484) |

Dimensions in inches (mm).

FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

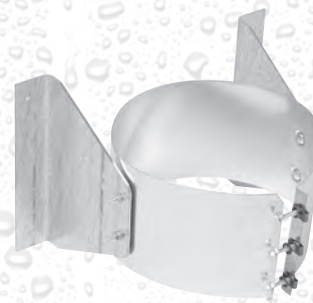
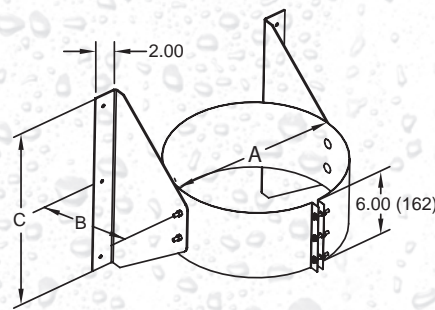
WALL SUPPORT (WS)

6" – 24" Diameters

Used to secure the vent to interior and exterior walls, maintaining clearance and providing alignment. Do not exceed 30 ft. distance between supports on interior walls. Do not exceed 8 ft. between supports on exterior walls.

| PIPE I.D. | FCSSW | | | | | | FCS | | | | | |
|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| | A | | B | | C | | A | | B | | C | |
| 6" | 6.00" | (152) | 5.00" | (127) | 8.00" | (203) | 8.00" | (203) | 5.00" | (127) | 8.00" | (203) |
| 7" | 7.00" | (178) | 5.50" | (140) | 9.00" | (229) | 9.00" | (229) | 5.50" | (178) | 9.00" | (229) |
| 8" | 8.00" | (203) | 6.00" | (152) | 10.00" | (254) | 10.00" | (254) | 6.00" | (152) | 10.00" | (254) |
| 9" | 9.00" | (229) | 6.50" | (165) | 11.00" | (279) | 11.00" | (279) | 6.50" | (165) | 11.00" | (279) |
| 10" | 10.00" | (254) | 7.00" | (178) | 12.00" | (305) | 12.00" | (305) | 7.00" | (178) | 12.00" | (305) |
| 12" | 12.00" | (305) | 8.00" | (203) | 14.00" | (356) | 14.00" | (356) | 8.00" | (203) | 14.00" | (356) |
| 14" | 14.00" | (356) | 13.00" | (330) | 16.00" | (406) | 16.00" | (406) | 13.00" | (330) | 16.00" | (406) |
| 16" | 16.00" | (406) | 14.00" | (356) | 18.00" | (457) | 18.00" | (457) | 14.00" | (356) | 18.00" | (457) |
| 18" | 18.00" | (457) | 15.00" | (381) | 20.00" | (508) | 20.00" | (508) | 15.00" | (381) | 20.00" | (508) |
| 20" | 20.00" | (508) | 16.00" | (406) | 22.00" | (559) | 22.00" | (559) | 16.00" | (406) | 22.00" | (559) |
| 22" | 22.00" | (559) | 17.00" | (432) | 24.00" | (610) | 24.00" | (610) | 17.00" | (432) | 24.00" | (610) |
| 24" | 24.00" | (610) | 18.00" | (457) | 26.00" | (660) | 26.00" | (660) | 18.00" | (457) | 26.00" | (660) |

Dimensions in inches (mm).



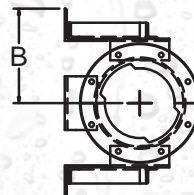
WALL SUPPORT (WS)

26" – 36" Diameters

Used to provide vertical support. (Zinc Plated)

- NOTES:**
1. Does not allow for thermal expansion.
 2. Do not exceed 40' between supports on interior walls.
 3. Do not exceed 10' between supports on exterior walls.

| PIPE I.D. | FCSSW / FCS | |
|-----------|--------------|--------------|
| | A | B |
| 26" (660) | 18.62" (473) | 18.00" (457) |
| 28" (711) | 19.62" (498) | 19.00" (483) |
| 30" (762) | 20.62" (524) | 20.00" (508) |
| 32" (813) | 21.62" (549) | 21.00" (533) |
| 34" (864) | 23.12" (587) | 22.50" (572) |
| 36" (914) | 24.12" (613) | 23.50" (597) |



FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

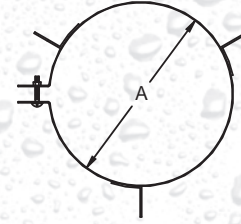
GUY RING (GR)

6" – 24" Diameters

A = Flue Diameter for FCSSW

A = Flue Diameter + 2" for FCS

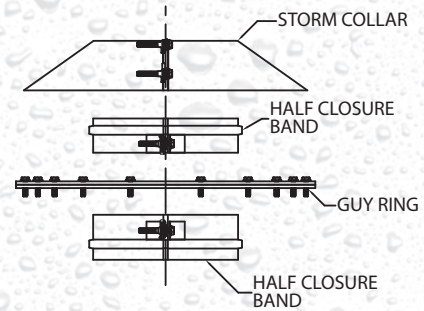
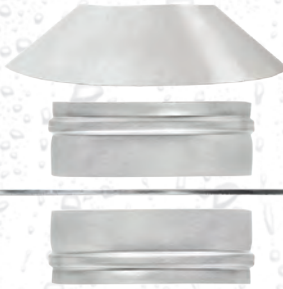
NOTE: Guy Ring clamps around outside of pipe.



GUY RING (GR)

26" – 36" Diameters

Guy Ring clamps around flue flange band.



HALF ANGLE RING (HAR)

6" – 24" Diameters

Maximum distance between supports or elbows = 7' 0"



HALF ANGLE RING (HAR)

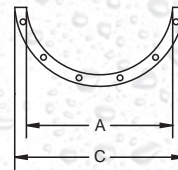
26" – 36" Diameters

Used to support horizontal runs.
(Zinc Plated)

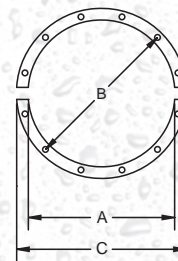
NOTE: Maximum distance between supports or elbows = 10' 6"



HALF ANGLE RING



FULL ANGLE RING



FULL ANGLE RING (FAR)

26" – 36" Diameters

Used to provides lateral support for vertical runs. Allows pipe movement for thermal expansion. (Zinc Plated)



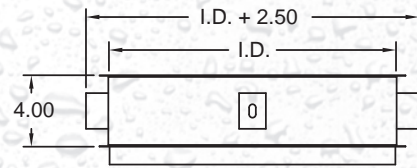
| PRODUCT | | DIMENSIONS | | | |
|-----------|-----------|--------------|-----------------|---------------|-----------|
| PIPE I.D. | | Inside | Hole Centerline | Outside | Hole Qty. |
| FCSSW | FCS | A | B | C | D |
| 26" (660) | - | 26.25" (667) | 28.50" (724) | 30.25" (769) | 24 |
| 28" (711) | 26" (660) | 28.25" (718) | 30.50" (775) | 32.25" (820) | 24 |
| 30" (762) | 28" (712) | 30.25" (768) | 32.50" (826) | 34.25" (870) | 28 |
| 32" (813) | 30" (762) | 32.25" (819) | 34.50" (876) | 36.25" (921) | 28 |
| 34" (864) | 32" (813) | 34.25" (870) | 36.50" (927) | 38.25" (972) | 32 |
| 36" (914) | 34" (864) | 36.25" (921) | 38.50" (978) | 40.25" (1022) | 32 |
| - | 36" (914) | 38.25" (972) | 40.50" (1029) | 42.25" (1073) | 36 |

FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

LIFTING RING (LR)

Used to support and lower vent assembly into existing chimney.

NOTE: Available in single wall only.



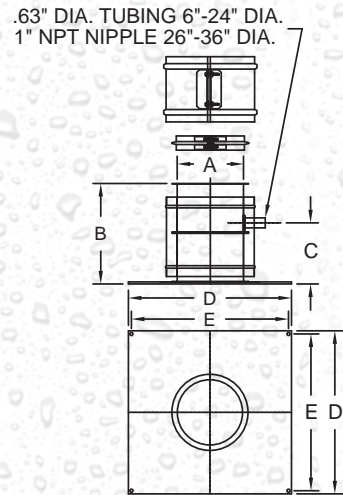
STACK SUPPORT ASSEMBLY (SSA)

Used to supports vertical stack at floor level. Includes moisture drain.

Maximum Supported Height:

- 6" – 12" FCSSW = 100'
- 14" – 24" FCSSW = 75'
- 26" – 36" FCSSW = 100'
- 6" – 12" FCS = 50'
- 14" – 24" FCS = 30'
- 26" – 36" FCS = 100'

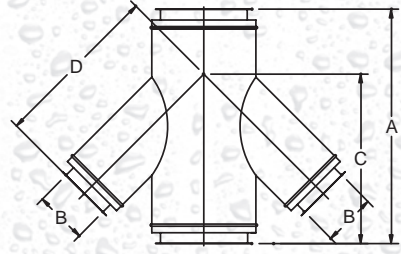
| FCSSW / FCS |
|----------------|
| A = PIPE I.D. |
| B = 9" (229) |
| C = 5.5" (140) |
| D = A+7" (178) |
| E = A+6" (152) |



FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

CORR/GUARD® 45MT & DL TABLE IN INCHES 6" – 36" Diameters

| IAPT.D. | | | | | | | | | | | | | | |
|---------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 36FCS | "A" | 36 | 34 | 32 | 30 | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 |
| | "B" | 63.74 | 60.91 | 58.08 | 55.26 | 52.43 | 49.60 | 46.77 | 43.94 | 41.11 | 38.28 | 37.46 | 36.63 | 34.80 |
| | "C" | 50.87 | 49.46 | 48.04 | 46.63 | 45.21 | 43.80 | 42.39 | 40.97 | 39.56 | 38.14 | 36.73 | 35.31 | 33.90 |
| | "D" | 50.87 | 49.87 | 48.87 | 47.87 | 46.87 | 45.87 | 44.87 | 43.87 | 42.87 | 41.87 | 40.87 | 39.87 | 38.87 |
| 34FCS | "A" | 34 | 32 | 30 | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 |
| | "B" | 60.91 | 58.08 | 55.26 | 52.43 | 49.60 | 46.77 | 43.94 | 41.11 | 38.28 | 36.46 | 35.63 | 33.80 | 31.97 |
| | "C" | 48.46 | 47.04 | 45.63 | 44.21 | 42.80 | 41.39 | 39.97 | 38.56 | 37.14 | 35.73 | 34.31 | 32.90 | 31.49 |
| | "D" | 48.46 | 47.46 | 46.46 | 45.46 | 44.46 | 43.46 | 42.46 | 41.46 | 40.46 | 39.46 | 38.46 | 37.46 | 36.46 |
| 32FCS | "A" | 32 | 30 | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 |
| | "B" | 58.08 | 55.26 | 52.43 | 49.60 | 46.77 | 43.94 | 41.11 | 38.28 | 35.46 | 34.63 | 32.80 | 30.97 | 29.14 |
| | "C" | 46.04 | 44.63 | 43.21 | 41.80 | 40.39 | 38.97 | 37.56 | 36.14 | 34.73 | 33.31 | 31.90 | 30.49 | 29.78 |
| | "D" | 46.04 | 45.04 | 44.04 | 43.04 | 42.04 | 41.04 | 40.04 | 39.04 | 38.04 | 37.04 | 36.04 | 35.04 | 34.04 |
| 30FCS | "A" | 30 | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 |
| | "B" | 55.26 | 52.43 | 49.60 | 46.77 | 43.94 | 41.11 | 38.28 | 35.46 | 32.63 | 31.80 | 29.97 | 28.14 | 27.31 |
| | "C" | 43.63 | 42.21 | 40.80 | 39.39 | 37.97 | 36.56 | 35.14 | 33.73 | 32.31 | 30.90 | 29.49 | 28.78 | 28.07 |
| | "D" | 43.63 | 42.63 | 41.63 | 40.63 | 39.63 | 38.63 | 37.63 | 36.63 | 35.63 | 34.63 | 33.63 | 32.63 | 31.63 |
| 28FCS | "A" | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 6 |
| | "B" | 52.43 | 49.60 | 46.77 | 43.94 | 41.11 | 38.28 | 35.46 | 32.63 | 30.80 | 28.97 | 27.14 | 26.31 | 26.31 |
| | "C" | 41.21 | 39.80 | 38.39 | 36.97 | 35.56 | 34.14 | 32.73 | 31.31 | 29.90 | 28.49 | 27.78 | 27.07 | 27.07 |
| | "D" | 41.21 | 40.21 | 39.21 | 38.21 | 37.21 | 36.21 | 35.21 | 34.21 | 33.21 | 32.21 | 31.21 | 30.21 | 30.21 |
| 26FCS | "A" | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 6 | 6 |
| | "B" | 49.60 | 46.77 | 43.94 | 41.11 | 38.28 | 35.46 | 32.63 | 29.80 | 27.97 | 26.14 | 25.31 | 25.31 | 25.31 |
| | "C" | 38.80 | 37.39 | 35.97 | 34.56 | 33.14 | 31.73 | 30.31 | 28.90 | 27.49 | 26.78 | 26.07 | 26.07 | 26.07 |
| | "D" | 38.80 | 37.80 | 36.80 | 35.80 | 34.80 | 33.80 | 32.80 | 31.80 | 30.80 | 29.80 | 28.80 | 28.80 | 28.80 |
| 24FCS | "A" | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 6 | 6 | 6 |
| | "B" | 46.77 | 43.94 | 41.11 | 38.28 | 35.46 | 32.63 | 29.80 | 26.97 | 25.14 | 24.31 | 24.31 | 24.31 | 24.31 |
| | "C" | 36.39 | 34.97 | 33.56 | 32.14 | 30.73 | 29.31 | 27.90 | 26.49 | 25.78 | 25.07 | 25.07 | 25.07 | 25.07 |
| | "D" | 36.39 | 35.39 | 34.39 | 33.39 | 32.39 | 31.39 | 30.39 | 29.39 | 28.39 | 27.39 | 27.39 | 27.39 | 27.39 |
| 22FCS | "A" | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 6 | 6 | 6 | 6 |
| | "B" | 43.94 | 41.11 | 38.28 | 35.46 | 32.63 | 29.80 | 26.97 | 24.14 | 23.31 | 23.31 | 23.31 | 23.31 | 23.31 |
| | "C" | 33.97 | 32.56 | 31.14 | 29.73 | 28.31 | 26.90 | 25.49 | 24.78 | 24.07 | 24.07 | 24.07 | 24.07 | 24.07 |
| | "D" | 33.97 | 32.97 | 31.97 | 30.97 | 29.97 | 28.97 | 27.97 | 26.97 | 25.97 | 25.97 | 25.97 | 25.97 | 25.97 |
| 20FCS | "A" | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 6 | 6 | 6 | 6 | 6 |
| | "B" | 41.11 | 38.28 | 35.46 | 32.63 | 29.80 | 26.97 | 24.14 | 22.31 | 22.31 | 22.31 | 22.31 | 22.31 | 22.31 |
| | "C" | 31.56 | 30.14 | 28.73 | 27.31 | 25.90 | 24.49 | 23.78 | 23.07 | 23.07 | 23.07 | 23.07 | 23.07 | 23.07 |
| | "D" | 31.56 | 30.56 | 29.56 | 28.56 | 27.56 | 26.56 | 25.56 | 24.56 | 24.56 | 24.56 | 24.56 | 24.56 | 24.56 |
| 18FCS | "A" | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | "B" | 38.28 | 35.46 | 32.63 | 29.80 | 26.97 | 24.14 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 |
| | "C" | 29.14 | 27.73 | 26.31 | 24.90 | 23.49 | 22.78 | 22.07 | 22.07 | 22.07 | 22.07 | 22.07 | 22.07 | 22.07 |
| | "D" | 29.14 | 28.14 | 27.14 | 26.14 | 25.14 | 24.14 | 23.14 | 23.14 | 23.14 | 23.14 | 23.14 | 23.14 | 23.14 |
| 16FCS | "A" | 16 | 14 | 12 | 10 | 9 | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | "B" | 35.46 | 32.63 | 29.80 | 26.97 | 25.56 | 24.14 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 |
| | "C" | 26.73 | 25.31 | 23.90 | 22.49 | 21.78 | 21.07 | 20.36 | 20.36 | 20.36 | 20.36 | 20.36 | 20.36 | 20.36 |
| | "D" | 26.73 | 25.73 | 24.73 | 23.73 | 22.73 | 21.73 | 20.73 | 20.73 | 20.73 | 20.73 | 20.73 | 20.73 | 20.73 |
| 14FCS | "A" | 14 | 12 | 10 | 9 | 8 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | "B" | 32.63 | 29.80 | 26.97 | 25.56 | 24.14 | 22.73 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 |
| | "C" | 24.31 | 22.90 | 21.49 | 20.78 | 20.07 | 19.36 | 18.66 | 18.66 | 18.66 | 18.66 | 18.66 | 18.66 | 18.66 |
| | "D" | 24.31 | 23.31 | 22.31 | 21.31 | 20.31 | 20.31 | 20.31 | 20.31 | 20.31 | 20.31 | 20.31 | 20.31 | 20.31 |
| 12FCS | "A" | 12 | 10 | 9 | 8 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | "B" | 29.80 | 26.97 | 25.56 | 24.14 | 22.73 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 |
| | "C" | 21.90 | 20.49 | 19.78 | 19.07 | 18.36 | 17.66 | 17.66 | 17.66 | 17.66 | 17.66 | 17.66 | 17.66 | 17.66 |
| | "D" | 21.90 | 20.90 | 20.40 | 19.90 | 19.40 | 18.90 | 18.90 | 18.90 | 18.90 | 18.90 | 18.90 | 18.90 | 18.90 |
| 10FCS | "A" | 10 | 9 | 8 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | "B" | 26.97 | 25.56 | 24.14 | 22.73 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 |
| | "C" | 19.49 | 18.78 | 18.07 | 17.36 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 |
| | "D" | 19.49 | 18.99 | 18.49 | 17.99 | 17.49 | 17.49 | 17.49 | 17.49 | 17.49 | 17.49 | 17.49 | 17.49 | 17.49 |
| 9FCS | "A" | 9 | 8 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | "B" | 25.56 | 24.14 | 22.73 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 |
| | "C" | 18.28 | 17.57 | 16.86 | 16.16 | 16.16 | 16.16 | 16.16 | 16.16 | 16.16 | 16.16 | 16.16 | 16.16 | 16.16 |
| | "D" | 18.28 | 17.78 | 17.28 | 16.78 | 16.78 | 16.78 | 16.78 | 16.78 | 16.78 | 16.78 | 16.78 | 16.78 | 16.78 |
| 8FCS | "A" | 8 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | "B" | 24.14 | 22.73 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 |
| | "C" | 17.07 | 16.36 | 15.66 | 15.66 | 15.66 | 15.66 | 15.66 | 15.66 | 15.66 | 15.66 | 15.66 | 15.66 | 15.66 |
| | "D" | 17.07 | 16.57 | 16.07 | 16.07 | 16.07 | 16.07 | 16.07 | 16.07 | 16.07 | 16.07 | 16.07 | 16.07 | 16.07 |
| 7FCS | "A" | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | "B" | 22.73 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 |
| | "C" | 15.86 | 15.16 | 15.16 | 15.16 | 15.16 | 15.16 | 15.16 | 15.16 | 15.16 | 15.16 | 15.16 | 15.16 | 15.16 |
| | "D" | 15.86 | 15.36 | 15.36 | 15.36 | 15.36 | 15.36 | 15.36 | 15.36 | 15.36 | 15.36 | 15.36 | 15.36 | 15.36 |
| 6FCS | "A" | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | "B" | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 |
| | "C" | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 |
| | "D" | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 | 14.66 |

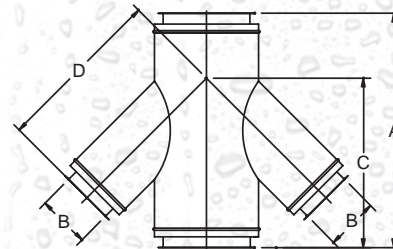


**FCSSW & FCS
45MT & DL TABLE IN INCHES**

FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

CORR/GUARD® 45MT & DL TABLE IN METRIC 153mm – 915mm Diameters

| | | TAP I.D. | | | | | | | | | | | | |
|-------|-----|----------|------|------|------|------|------|------|------|------|------|------|------|-----|
| | | 36 | 34 | 32 | 30 | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 |
| 36FCS | "A" | 1619 | 1547 | 1475 | 1403 | 1332 | 1260 | 1188 | 1116 | 1044 | 972 | 900 | 828 | 756 |
| | "B" | 914 | 864 | 813 | 762 | 711 | 660 | 610 | 559 | 508 | 457 | 406 | 355 | 304 |
| | "C" | 1292 | 1256 | 1220 | 1184 | 1148 | 1112 | 1077 | 1041 | 1005 | 969 | 933 | 897 | 861 |
| | "D" | 1292 | 1267 | 1241 | 1216 | 1190 | 1165 | 1140 | 1114 | 1089 | 1063 | 1038 | 1013 | 987 |
| | | 34 | 32 | 30 | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 |
| 34FCS | "A" | 1547 | 1475 | 1403 | 1332 | 1260 | 1188 | 1116 | 1044 | 972 | 900 | 828 | 756 | 684 |
| | "B" | 864 | 813 | 762 | 711 | 660 | 610 | 559 | 508 | 457 | 406 | 355 | 304 | 254 |
| | "C" | 1231 | 1195 | 1159 | 1123 | 1087 | 1051 | 1015 | 979 | 943 | 907 | 872 | 836 | 800 |
| | "D" | 1231 | 1205 | 1180 | 1155 | 1129 | 1104 | 1078 | 1053 | 1028 | 1002 | 977 | 951 | 926 |
| | | 32 | 30 | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 |
| 32FCS | "A" | 1475 | 1403 | 1332 | 1260 | 1188 | 1116 | 1044 | 972 | 900 | 828 | 756 | 684 | 612 |
| | "B" | 813 | 762 | 711 | 660 | 610 | 559 | 508 | 457 | 406 | 355 | 304 | 254 | 203 |
| | "C" | 1169 | 1134 | 1098 | 1062 | 1026 | 990 | 954 | 918 | 882 | 846 | 810 | 774 | 738 |
| | "D" | 1169 | 1144 | 1119 | 1093 | 1068 | 1042 | 1017 | 992 | 966 | 941 | 915 | 890 | 865 |
| | | 30 | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 |
| 30FCS | "A" | 1403 | 1332 | 1260 | 1188 | 1116 | 1044 | 972 | 900 | 828 | 756 | 684 | 612 | 540 |
| | "B" | 762 | 711 | 660 | 610 | 559 | 508 | 457 | 406 | 355 | 304 | 254 | 203 | 152 |
| | "C" | 1108 | 1072 | 1036 | 1000 | 964 | 929 | 893 | 857 | 821 | 785 | 749 | 713 | 677 |
| | "D" | 1108 | 1083 | 1057 | 1032 | 1007 | 981 | 956 | 930 | 905 | 880 | 854 | 829 | 803 |
| | | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 4 |
| 28FCS | "A" | 1332 | 1260 | 1188 | 1116 | 1044 | 972 | 900 | 829 | 757 | 685 | 613 | 541 | 469 |
| | "B" | 711 | 660 | 610 | 559 | 508 | 457 | 406 | 356 | 305 | 254 | 203 | 152 | 101 |
| | "C" | 1047 | 1011 | 975 | 939 | 903 | 867 | 831 | 795 | 759 | 724 | 688 | 652 | 616 |
| | "D" | 1047 | 1021 | 996 | 971 | 945 | 920 | 894 | 869 | 844 | 818 | 793 | 767 | 741 |
| | | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 4 | 2 |
| 26FCS | "A" | 1260 | 1188 | 1116 | 1044 | 972 | 900 | 829 | 757 | 685 | 613 | 541 | 469 | 397 |
| | "B" | 660 | 610 | 559 | 508 | 457 | 406 | 356 | 305 | 254 | 203 | 152 | 101 | 50 |
| | "C" | 985 | 950 | 914 | 878 | 842 | 806 | 770 | 734 | 698 | 662 | 626 | 590 | 554 |
| | "D" | 985 | 960 | 935 | 909 | 884 | 858 | 833 | 808 | 782 | 757 | 731 | 705 | 680 |
| | | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 4 | 2 | 1 |
| 24FCS | "A" | 1188 | 1116 | 1044 | 972 | 900 | 829 | 757 | 685 | 613 | 541 | 469 | 397 | 325 |
| | "B" | 610 | 559 | 508 | 457 | 406 | 356 | 305 | 254 | 203 | 152 | 101 | 50 | 0 |
| | "C" | 924 | 888 | 852 | 816 | 780 | 745 | 709 | 673 | 637 | 601 | 565 | 529 | 493 |
| | "D" | 924 | 899 | 873 | 848 | 823 | 797 | 772 | 746 | 721 | 696 | 671 | 645 | 620 |
| | | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 4 | 2 | 1 | 0 |
| 22FCS | "A" | 1116 | 1044 | 972 | 900 | 829 | 757 | 685 | 613 | 541 | 469 | 397 | 325 | 253 |
| | "B" | 559 | 508 | 457 | 406 | 356 | 305 | 254 | 203 | 152 | 101 | 50 | 0 | 0 |
| | "C" | 863 | 827 | 791 | 755 | 719 | 683 | 647 | 611 | 575 | 539 | 503 | 467 | 431 |
| | "D" | 863 | 837 | 812 | 787 | 761 | 736 | 710 | 685 | 660 | 635 | 610 | 585 | 560 |
| | | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 4 | 2 | 1 | 0 | 0 |
| 20FCS | "A" | 1044 | 972 | 900 | 829 | 757 | 685 | 613 | 541 | 469 | 397 | 325 | 253 | 181 |
| | "B" | 508 | 457 | 406 | 356 | 305 | 254 | 203 | 152 | 101 | 50 | 0 | 0 | 0 |
| | "C" | 802 | 766 | 730 | 694 | 658 | 622 | 586 | 550 | 514 | 478 | 442 | 406 | 370 |
| | "D" | 802 | 776 | 751 | 725 | 700 | 675 | 649 | 624 | 598 | 573 | 547 | 522 | 496 |
| | | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 4 | 2 | 1 | 0 | 0 | 0 |
| 18FCS | "A" | 972 | 900 | 829 | 757 | 685 | 613 | 541 | 469 | 397 | 325 | 253 | 181 | 109 |
| | "B" | 457 | 406 | 356 | 305 | 254 | 203 | 152 | 101 | 50 | 0 | 0 | 0 | 0 |
| | "C" | 740 | 704 | 668 | 632 | 597 | 561 | 525 | 489 | 453 | 417 | 381 | 345 | 309 |
| | "D" | 740 | 715 | 689 | 664 | 639 | 613 | 588 | 563 | 538 | 513 | 488 | 463 | 438 |
| | | 16 | 14 | 12 | 10 | 8 | 6 | 4 | 2 | 1 | 0 | 0 | 0 | 0 |
| 16FCS | "A" | 900 | 829 | 757 | 685 | 613 | 541 | 469 | 397 | 325 | 253 | 181 | 109 | 37 |
| | "B" | 406 | 356 | 305 | 254 | 203 | 152 | 101 | 50 | 0 | 0 | 0 | 0 | 0 |
| | "C" | 679 | 643 | 607 | 571 | 535 | 499 | 463 | 427 | 391 | 355 | 319 | 283 | 247 |
| | "D" | 679 | 653 | 628 | 603 | 578 | 552 | 527 | 502 | 477 | 452 | 427 | 402 | 377 |
| | | 14 | 12 | 10 | 8 | 6 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 14FCS | "A" | 829 | 757 | 685 | 613 | 541 | 469 | 397 | 325 | 253 | 181 | 109 | 37 | 0 |
| | "B" | 356 | 305 | 254 | 203 | 152 | 101 | 50 | 0 | 0 | 0 | 0 | 0 | 0 |
| | "C" | 618 | 582 | 546 | 510 | 474 | 438 | 402 | 366 | 330 | 294 | 258 | 222 | 186 |
| | "D" | 618 | 592 | 567 | 541 | 515 | 490 | 464 | 439 | 414 | 389 | 364 | 339 | 314 |
| | | 12 | 10 | 8 | 6 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12FCS | "A" | 757 | 685 | 613 | 541 | 469 | 397 | 325 | 253 | 181 | 109 | 37 | 0 | 0 |
| | "B" | 305 | 254 | 203 | 152 | 101 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | "C" | 556 | 520 | 484 | 448 | 412 | 376 | 340 | 304 | 268 | 232 | 196 | 160 | 124 |
| | "D" | 556 | 531 | 518 | 505 | 493 | 480 | 467 | 454 | 441 | 428 | 415 | 402 | 389 |
| | | 10 | 8 | 6 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10FCS | "A" | 685 | 613 | 541 | 469 | 397 | 325 | 253 | 181 | 109 | 37 | 0 | 0 | 0 |
| | "B" | 254 | 203 | 152 | 101 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | "C" | 495 | 477 | 459 | 441 | 423 | 405 | 387 | 369 | 351 | 333 | 315 | 297 | 279 |
| | "D" | 495 | 482 | 470 | 457 | 444 | 431 | 418 | 405 | 392 | 379 | 366 | 353 | 340 |
| | | 8 | 6 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9FCS | "A" | 613 | 541 | 469 | 397 | 325 | 253 | 181 | 109 | 37 | 0 | 0 | 0 | 0 |
| | "B" | 203 | 152 | 101 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | "C" | 464 | 446 | 428 | 410 | 392 | 374 | 356 | 338 | 320 | 302 | 284 | 266 | 248 |
| | "D" | 464 | 452 | 439 | 426 | 413 | 400 | 387 | 374 | 361 | 348 | 335 | 322 | 309 |
| | | 6 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8FCS | "A" | 541 | 469 | 397 | 325 | 253 | 181 | 109 | 37 | 0 | 0 | 0 | 0 | 0 |
| | "B" | 152 | 101 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | "C" | 434 | 416 | 398 | 380 | 362 | 344 | 326 | 308 | 290 | 272 | 254 | 236 | 218 |
| | "D" | 434 | 421 | 408 | 395 | 382 | 369 | 356 | 343 | 330 | 317 | 304 | 291 | 278 |
| | | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7FCS | "A" | 469 | 397 | 325 | 253 | 181 | 109 | 37 | 0 | 0 | 0 | 0 | 0 | 0 |
| | "B" | 101 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | "C" | 403 | 385 | 367 | 349 | 331 | 313 | 295 | 277 | 259 | 241 | 223 | 205 | 187 |
| | "D" | 403 | 390 | 377 | 364 | 351 | 338 | 325 | 312 | 299 | 286 | 273 | 260 | 247 |
| | | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6FCS | "A" | 397 | 325 | 253 | 181 | 109 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | "B" | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | "C" | 372 | 354 | 336 | 318 | 300 | 282 | 264 | 246 | 228 | 210 | 192 | 174 | 156 |
| | "D" | 372 | 359 | 346 | 333 | 320 | 307 | 294 | 281 | 268 | 255 | 242 | 229 | 216 |



**FCSSW & FCS
45MT & DL TABLE IN METRIC**

FCS/FCSSW COMPONENTS 6" – 36" DIAMETERS

JOINT ASSEMBLY

1. Apply continuous bead of sealant ¼" wide at corner of flange and sleeve.
2. Join to next section.
3. Fill the flange vee band with sealant and install around flanges.
4. Gently tap vee band with a soft head mallet while tightening band to assure tight seal.
5. Install casing closure band. (Seal if external to structure to prevent moisture infiltration)



SEALANT REQUIREMENTS

P077 Sealant

| Flue Diameter | Tubes / Joint | Joints / Tube |
|---------------|---------------|---------------|
| 6" | 0.20 | 5 |
| 8" | 0.20 | 5 |
| 10" | 0.20 | 5 |
| 12" | 0.25 | 4 |
| 14" | 0.25 | 4 |
| 16" | 0.25 | 4 |
| 18" | 0.33 | 3 |
| 20" | 0.33 | 3 |
| 22" | 0.33 | 3 |
| 24" | 0.50 | 2 |
| 26" | 0.50 | 2 |
| 28" | 0.50 | 2 |
| 30" | 0.67 | 1-1/2 |
| 32" | 0.67 | 1-1/2 |
| 34" | 0.67 | 1-1/2 |
| 36" | 0.67 | 1-1/2 |

WARRANTY

LIMITED LIFETIME WARRANTY

The Metal-Fab, Inc. 6 thru 36-inch diameter Model FCS "Corr/Guard Double Wall" and FCSSW "Corr/Guard Single-Wall" factory-built gas vent system (the products), when installed in accordance to manufacturer's instructions and when properly and regularly cleaned and maintained, are warranted by Metal-Fab, Inc. under normal use against defects in material or workmanship for as long as the original purchaser owns the vent system.

Refer to Metal-Fab Warranty form L2619 for complete information and claim procedures, exclusions and limitations. The entire warranty is available at: www.metal-fabcommercial.com

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