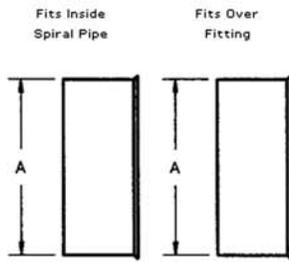
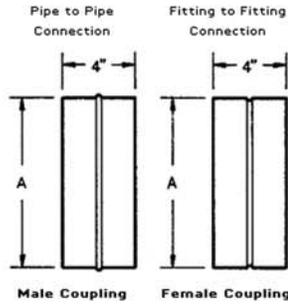




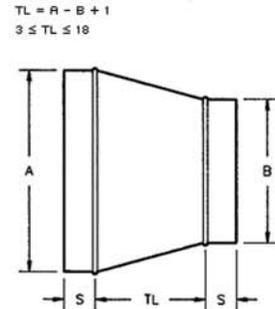
End Cap



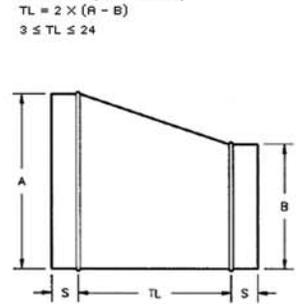
Connectors



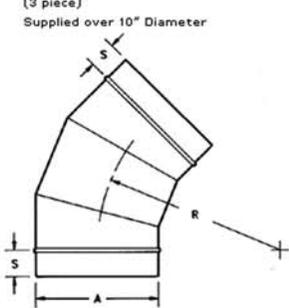
Reducer (Concentric)



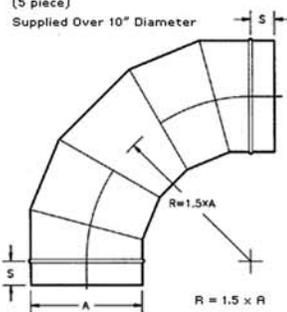
Reducer (Eccentric)



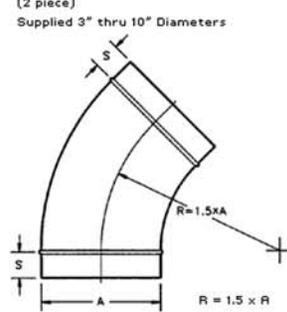
45° Beta Seam Elbow (3 piece)



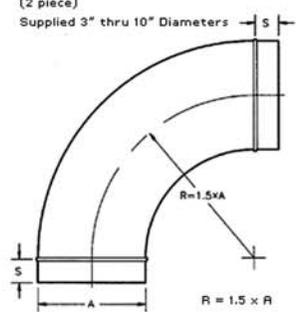
90° Beta Seam Elbow (5 piece)



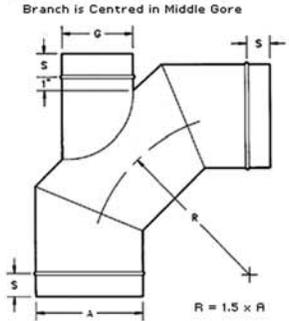
45° Die Stamped Elbow (2 piece)



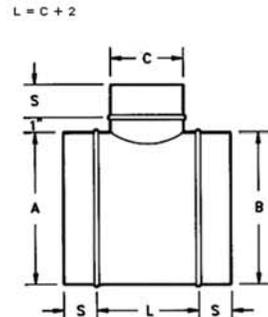
90° Die Stamped Elbow (2 piece)



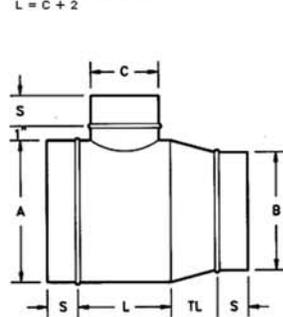
Heel Tap Elbow (3 pieces)



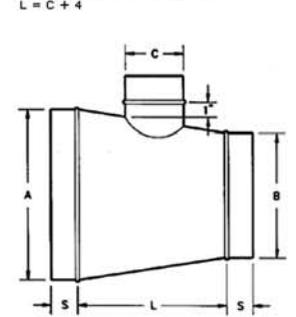
Tee



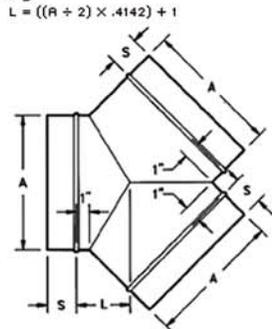
Tee with Reducer



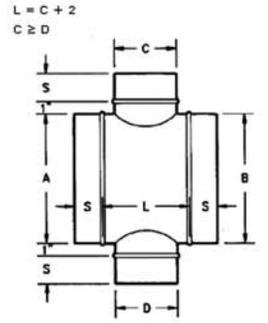
Tee with Reducing Barrel



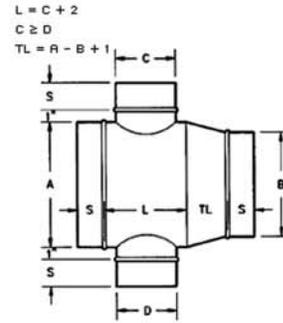
Wye



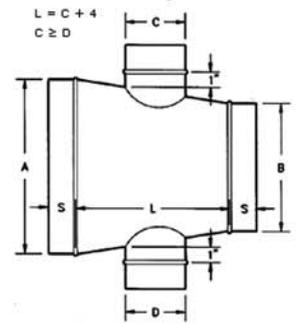
Cross



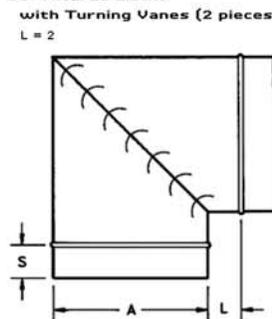
Cross with Reducer



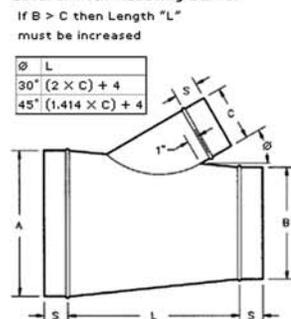
Cross with Reducing Barrel



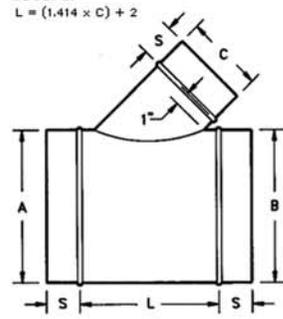
90° Mitered Elbow with Turning Vanes (2 pieces)



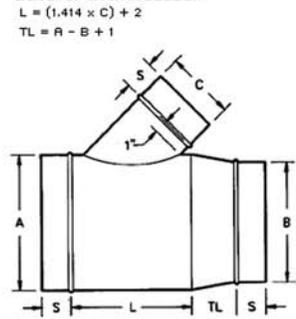
Lateral with Reducing Barrel



Lateral

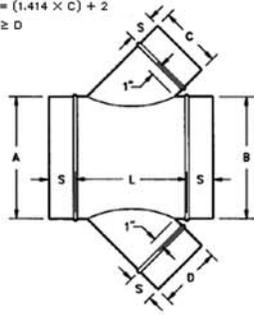


Lateral with Reducer



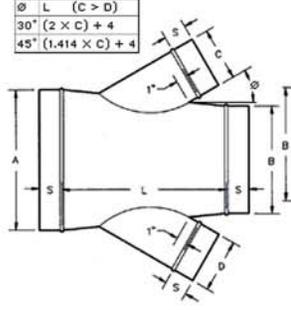
Lateral Cross

$L = (1.414 \times C) + 2$
 $C \geq D$



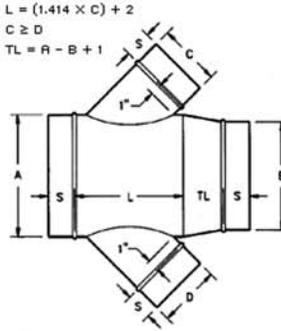
Lateral Cross with Reducing Barrel

$\phi L (C > D)$
 $30^\circ (2 \times C) + 4$
 $45^\circ (1.414 \times C) + 4$



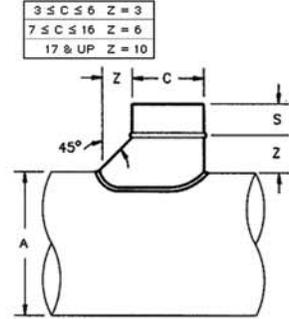
Lateral Cross with Reducer

$L = (1.414 \times C) + 2$
 $C \geq D$
 $TL = R - B + 1$



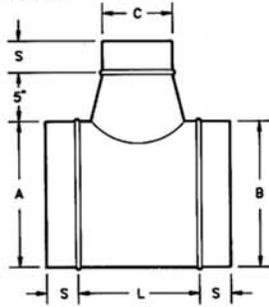
90° Shoe Tap

$3 \leq C \leq 6 \quad Z = 3$
 $7 \leq C \leq 16 \quad Z = 6$
 $17 \text{ \& UP} \quad Z = 10$



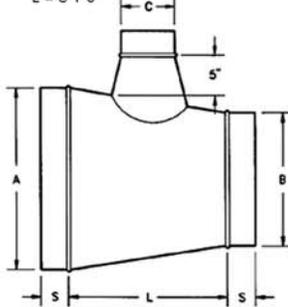
Conical Tee

$L = C + 4$



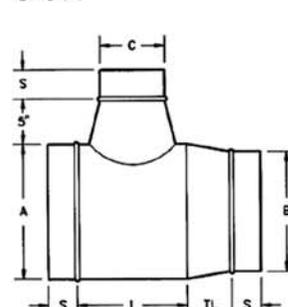
Conical Tee with Reducing Barrel

$L = C + 6$

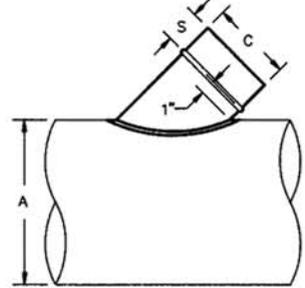


Conical Tee with Reducer

$L = C + 4$

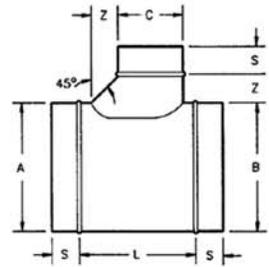


45° Tap



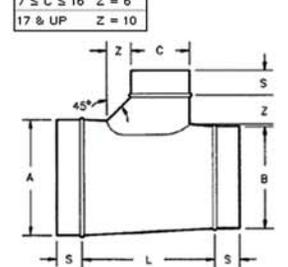
Tee with Reducer

$L = C + 2$
 $TL = R - B + 1$



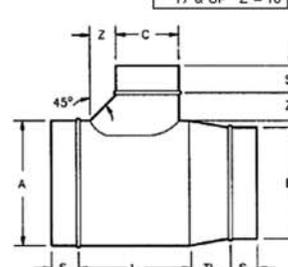
Shoe Tee with Reducing Barrel

$L = Z + C + 4$
 $3 \leq C \leq 6 \quad Z = 3$
 $7 \leq C \leq 16 \quad Z = 6$
 $17 \text{ \& UP} \quad Z = 10$



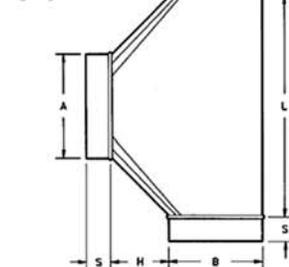
Shoe Tee with Reducer

$L = Z + C + 2$
 $TL = R - B + 1$
 $3 \leq C \leq 6 \quad Z = 3$
 $7 \leq C \leq 16 \quad Z = 6$
 $17 \text{ \& UP} \quad Z = 10$



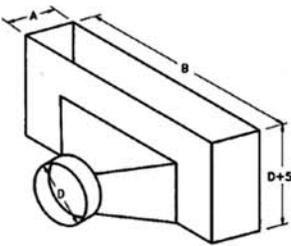
Bullhead Tee

$H = R - B + 6$
 $L = (2 \times H) + R$
 $B = C$



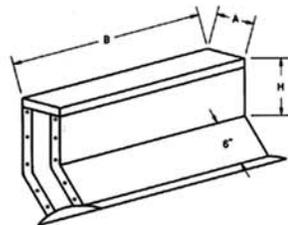
Special Elbow Boots

All Boots Include Cement Caps



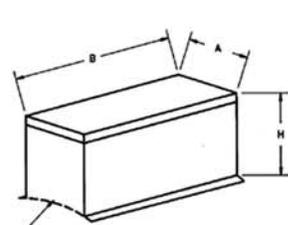
45° Grill Saddle

All Grill Saddles Include Cement Caps
 $H = 6"$ (Standard)



Grill Saddle

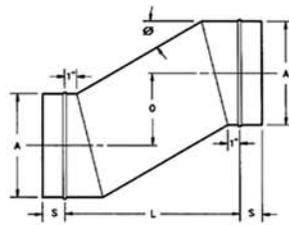
All Grill Saddles Include Cement Caps
 $H = 6"$ (Standard)



Field Trim to Fit Various Round Sizes

Offset

Provide Dimensions R O L
 If L is not specified, $\phi = 30$

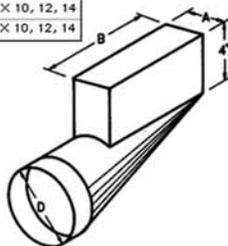


Standard Size End Boots

All Boots Include Cement Caps

$D = 6", 7", 8"$

R	B
2 - 1/4	10, 12, 14
3 - 1/4	10, 12, 14
4	10, 12, 14

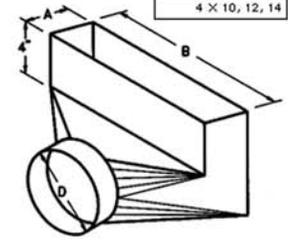


Standard Size Elbow Boots

All Boots Include Cement Caps

$D = 6", 7", 8"$

R	B
2 - 1/4	10, 12, 14
3 - 1/4	10, 12, 14
4	10, 12, 14



Special Perimeter Boots

All Boots Include Cement Caps

