

Cast Iron

DC-CI

CHARLOTTE
PIPE AND FOUNDRY COMPANY

DIMENSIONAL CATALOG

No-Hub Pipe and Fittings

Service Pipe and Fittings

Extra Heavy Pipe and Fittings

Plugs

[Updated April 20, 2022]

You can't beat the system.®

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Cast Iron Pipe and Fitting Dimensions

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Download our Tech Tools App for dimensional info, tech calculators and more on your mobile device.



This catalog accurately reflects dimensional information to the best of our knowledge. If dimensions on your job are critical, please verify dimensional information with our factory.

This dimensional catalog accurately reflects our product line at the time the catalog was printed. However, we add and delete items on an ongoing basis to better serve our customers. Please refer to our current list price sheets for an accurate listing of items offered.

Charlotte Pipe® products are manufactured to the applicable ASTM standard. Charlotte Pipe and Foundry cannot accept responsibility for the performance, dimensional accuracy, or compatibility of pipe, fittings, gaskets, or couplings not manufactured or sold by Charlotte Pipe and Foundry.

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No-Hub

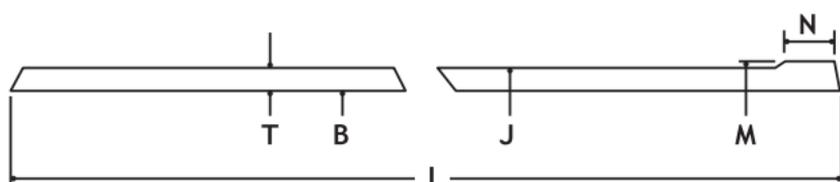


TABLE 1
DIMENSIONS AND TOLERANCES (IN INCHES) OF SPIGOTS
AND BARRELS FOR NO-HUB PIPE AND FITTINGS

| Size | Inside Barrel Diameter | Outside Diameter Barrel | Outside Diameter Spigot | Width Spigot Bead N | Thickness of Barrel | | Gasket Positioning Lug |
|-------|------------------------|-------------------------|-------------------------|---------------------|---------------------|--------|------------------------|
| | B | J | M | (± .13) | T-Nom. | T-Min. | W |
| 1 1/2 | 1.50 ± .09 | 1.90 ± .06 | 1.96 ± .06 | .25 | .16 | .13 | 1.13 |
| 2 | 1.96 ± .09 | 2.35 ± .09 | 2.41 ± .09 | .25 | .16 | .13 | 1.13 |
| 3 | 2.96 ± .09 | 3.35 ± .09 | 3.41 ± .09 | .25 | .16 | .13 | 1.13 |
| 4 | 3.94 ± .09 | 4.38 ± .09 | 4.44 ± .09 | .31 | .19 | .15 | 1.13 |
| 5 | 4.94 ± .09 | 5.30 ± .09 | 5.36 ± .09 | .31 | .19 | .15 | 1.50 |
| 6 | 5.94 ± .09 | 6.30 ± .09 | 6.36 ± .09 | .31 | .19 | .15 | 1.50 |
| 8 | 7.94 ± .13 | 8.38 ± .09 | 8.44 ± .09 | .31 | .23 | .17 | 2.00 |
| 10 | 10.00 ± .13 | 10.56 ± .09 | 10.62 ± .09 | .31 | .28 | .22 | 2.00 |
| 12 | 11.94 ± .09 | 12.50 ± .13 | 12.62 ± .13 | .31 | .28 | .22 | 2.75 |
| 15 | 15.11 ± .09 | 15.83 ± .13 | 16.12 ± .13 | .31 | .36 | .30 | 2.75 |

TEN FOOT PIPE BUNDLES NO-HUB PIPE

| Size | Pieces | Weight | Height |
|--------------|--------|--------|--------|
| 1 1/2" x 10' | 72 | 2052 | 12" |
| 2" x 10' | 54 | 1906 | 11" |
| 3" x 10' | 36 | 1944 | 14" |
| 4" x 10' | 27 | 2052 | 17" |
| 5" x 10' | 24 | 2342 | 20" |
| 6" x 10' | 18 | 2120 | 23" |
| 8" x 10' | 8 | 1367 | 22" |
| 10" x 10' | 6 | 1528 | 26" |
| 12" x 10' | 6 | 1908 | 29" |
| 15" x 10' | 2 | 985 | 19" |

Weights are approximate and are for shipping purposes only.

PART NO. NH 1

No-Hub (Standard) Coupling

| Size | Shield Width | Number of Clamps |
|--------|--------------|------------------|
| 1½ | 2.13" | 2 |
| 2 x 1½ | 2.13" | 2 |
| 2 | 2.13" | 2 |
| 3 x 2 | 2.13" | 2 |
| 3 | 2.13" | 2 |
| 4 x 3 | 2.13" | 2 |
| 4 | 2.13" | 2 |
| 5 | 3.00" | 4 |
| 6 | 3.00" | 4 |
| 8 | 4.00" | 4 |
| 10 | 4.00" | 4 |



PART NO. MDC 2

Heavy Duty (MD) Coupling

| Size | Shield Width | Number of Clamps |
|------|--------------|------------------|
| 1½ | 3.00" | 4 |
| 2 | 3.00" | 4 |
| 3 | 3.00" | 4 |
| 4 | 3.00" | 4 |
| 5 | 4.00" | 6 |
| 6 | 4.00" | 6 |
| 8 | 4.00" | 6 |
| 10 | 4.00" | 6 |



PART NO. SDC 4

Heavy Duty (HD) Coupling

| Size | Shield Width | Number of Clamps |
|------|--------------|------------------|
| 1½ | 3.00" | 4 |
| 2 | 3.00" | 4 |
| 3 | 3.00" | 4 |
| 4 | 3.00" | 4 |
| 5 | 4.00" | 6 |
| 6 | 4.00" | 6 |
| 8 | 4.00" | 6 |
| 10 | 4.00" | 6 |



PART NO. HD 1

Heavy Duty Coupling



| Size | Shield Width | Number of Clamps |
|------|--------------|------------------|
| 12 | 5.50" | 6 |
| 15 | 5.50" | 6 |

PART NO. NH 2



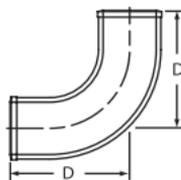
No-Hub Pipe - Ten Feet Laying Length

| Size | Weight |
|-----------|--------|
| 1½" x 10' | 28.5 |
| 2" x 10' | 35.0 |
| 3" x 10' | 54.0 |
| 4" x 10' | 76.0 |
| 5" x 10' | 97.6 |
| 6" x 10' | 117.8 |
| 8" x 10' | 170.9 |
| 10" x 10' | 254.6 |
| 12" x 10' | 318.1 |
| 15" x 10' | 492.6 |

PART NO. NH 4

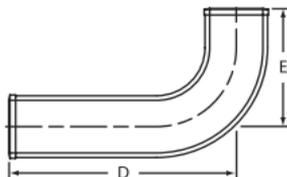
**Quarter Bend
(90° Ell)**

| Size | D | Weight |
|-------|----|--------|
| 1½ | 4¼ | 1.7 |
| 2 | 4½ | 2.2 |
| 3 | 5 | 3.7 |
| 4 | 5½ | 6.5 |
| 5 | 6½ | 9.3 |
| 6 | 7 | 15.0 |
| 8 | 8½ | 23.1 |
| 4 x 3 | 5½ | 5.5 |



Long Quarter Bend

| Size | D | E | Weight |
|--------|----|----|--------|
| 2 x 12 | 12 | 4½ | 5.4 |
| 2 x 18 | 18 | 4½ | 8.8 |
| 2 x 24 | 24 | 4½ | 10.7 |
| 3 x 12 | 12 | 5 | 8.5 |
| 4 x 12 | 12 | 5½ | 11.2 |



PART NO. NH 4A

Tapped Quarter Bend

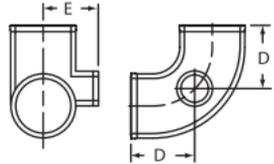
| Size | D | E | Weight |
|---------|----|----|--------|
| 1½ x 1½ | 3 | 2 | 1.9 |
| 2 x 1¼ | 3¼ | 2¼ | 2.0 |
| 2 x 1½ | 3¼ | 2¼ | 1.8 |
| 2 x 2 | 3¼ | 2¼ | 2.9 |



PART NO. NH 6

Quarter Bend with Side Opening

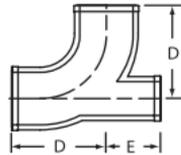
| Size | E | D | Weight |
|-------|----|--------------------------------|--------|
| 3 x 2 | 3¼ | 4 | 5.1 |
| 4 x 2 | 3¾ | 4 ⁵ / ₁₆ | 7.5 |



PART NO. NH 8

Quarter Bend with Heel Opening

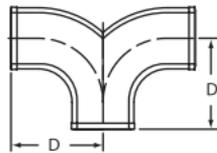
| Size | D | E | Weight |
|-------|----|-------------------------------|--------|
| 3 x 2 | 5 | 2 ⁷ / ₈ | 5.6 |
| 4 x 2 | 5½ | 3¼ | 7.2 |



PART NO. NH 8A

Double Quarter Bend

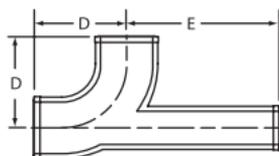
| Size | D | Weight |
|------|----|--------|
| 2 | 4½ | 4.5 |
| 3 | 5 | 7.1 |
| 4 | 5½ | 9.7 |



PART NO. NH 8B

**Quarter Bend with
Extended Low Heel Outlet**

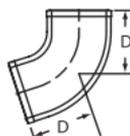
| Size | D | E | Weight |
|-------|---|--------|--------|
| 3 x 2 | 5 | 10 1/2 | 7.8 |



PART NO. NH 9

**Fifth Bend
(72° Ell)**

| Size | D | Weight |
|------|---------|--------|
| 2 | 3 11/16 | 2.3 |
| 3 | 4 1/16 | 3.7 |
| 4 | 4 7/16 | 6.1 |



PART NO. NH 10

**Sixth Bend
(60° Ell)**

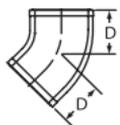
| Size | D | Weight |
|------|---------|--------|
| 2 | 3 1/4 | 2.2 |
| 3 | 3 1/2 | 3.0 |
| 4 | 3 13/16 | 5.3 |



PART NO. NH 12

**Eighth Bend
(45° Ell)**

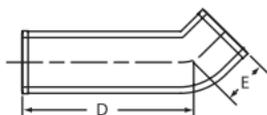
| Size | D | Weight |
|-------|---------|--------|
| 1 1/2 | 2 5/8 | 1.5 |
| 2 | 2 3/4 | 1.5 |
| 3 | 3 | 2.9 |
| 4 | 3 1/8 | 4.0 |
| 5 | 3 7/8 | 7.4 |
| 6 | 4 1/16 | 9.1 |
| 8 | 5 | 14.9 |
| 10 | 5 15/16 | 31.7 |
| 12 | 6 9/16 | 31.6 |
| 15 | 7 13/16 | 62.0 |



PART NO. NH 12

Long Eighth Bend

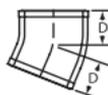
| Size | D | E | Weight |
|--------|----|-------------------------------|--------|
| 2 x 12 | 12 | 2 ³ / ₄ | 4.6 |
| 2 x 18 | 18 | 2 ³ / ₄ | 7.3 |
| 3 x 12 | 12 | 3 | 8.0 |
| 3 x 18 | 18 | 3 | 10.2 |
| 4 x 12 | 12 | 3 ¹ / ₈ | 9.7 |



PART NO. NH 14

**Sixteenth Bend
(22 1/2° Ell)**

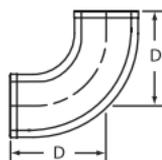
| Size | D | Weight |
|-------|--------------------------------|--------|
| 1 1/2 | 2 1/8 | 1.2 |
| 2 | 2 1/8 | 1.4 |
| 3 | 2 1/4 | 2.1 |
| 4 | 2 ⁵ / ₁₆ | 3.4 |
| 5 | 2 ⁷ / ₈ | 5.4 |
| 6 | 3 | 6.7 |
| 8 | 3 ³ / ₄ | 12.0 |



PART NO. NH 16

Short Sweep

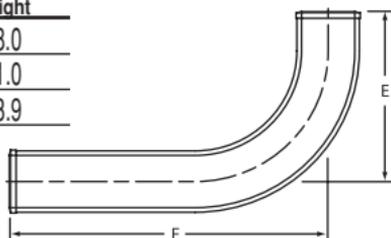
| Size | D | Weight |
|------|--------------------------------|--------|
| 2 | 6 1/2 | 3.1 |
| 3 | 7 | 6.3 |
| 4 | 7 1/2 | 8.1 |
| 5 | 8 1/2 | 13.1 |
| 6 | 9 | 17.1 |
| 8 | 10 1/2 | 31.0 |
| 10 | 12 | 53.4 |
| 12 | 13 1/4 | 61.3 |
| 15 | 14 ³ / ₄ | 105.6 |



PART NO. EZS 14

Extended Short Sweep

| Size | E | F | Weight |
|--------|----|----|--------|
| 2 x 18 | 6½ | 18 | 8.0 |
| 2 x 24 | 6½ | 24 | 11.0 |
| 2 x 34 | 6½ | 34 | 13.9 |

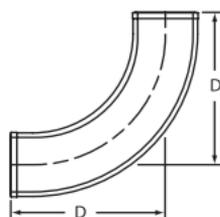


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PART NO. NH 18

Long Sweep

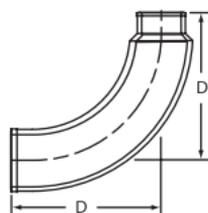
| Size | D | Weight |
|------|-----|--------|
| 1½ | 9¼ | 4.4 |
| 2 | 9½ | 5.8 |
| 3 | 10 | 9.4 |
| 4 | 10½ | 12.3 |
| 5 | 11½ | 18.6 |
| 6 | 12 | 23.3 |



PART NO. NH 18

Reducing Long Sweep

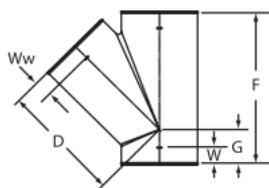
| Size | D | Weight |
|-------|-----|--------|
| 4 x 3 | 10½ | 12.4 |



PART NO. NH 20

Wye

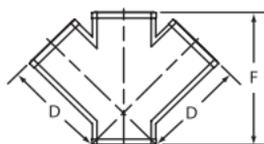
| Size | D | F | G | W | Ww | Weight |
|---------|----------------------------------|----------------------------------|---------------------------------|----|----|--------|
| 1½ x 1½ | 4 | 6 | 2 | 1⅛ | 1⅛ | 2.5 |
| 2 x 2 | 4⅝ | 6⅝ | 2 | 1⅛ | 1⅛ | 3.3 |
| 3 x 1½ | 4⅝ | 6⅞ | 1 ¹⁵ / ₁₆ | 1⅛ | 1⅛ | 4.4 |
| 3 x 2 | 5 ⁵ / ₁₆ | 6⅝ | 1½ | 1⅛ | 1⅛ | 3.4 |
| 3 | 5¾ | 8 | 2¼ | 1⅛ | 1⅛ | 4.6 |
| 4 x 2 | 6 | 6⅝ | 1 | 1⅛ | 1⅛ | 5.1 |
| 4 x 3 | 6½ | 8 | 1 ¹¹ / ₁₆ | 1⅛ | 1⅛ | 7.3 |
| 4 | 7 ¹ / ₁₆ | 9½ | 2 ⁷ / ₁₆ | 1⅛ | 1⅛ | 9.1 |
| 5 x 2 | 7½ | 8 ¹ / ₁₆ | 1 ⁵ / ₁₆ | 1½ | 1⅛ | 8.8 |
| 5 x 3 | 8 | 9 ¹¹ / ₁₆ | 1 ¹¹ / ₁₆ | 1½ | 1⅛ | 10.5 |
| 5 x 4 | 8½ | 11 ³ / ₁₆ | 2 ⁷ / ₁₆ | 1½ | 1⅛ | 13.1 |
| 5 | 9½ | 12 ⁵ / ₈ | 3⅛ | 1½ | 1½ | 15.1 |
| 6 x 2 | 8¼ | 8 ⁵ / ₁₆ | ½ | 1½ | 1⅛ | 9.8 |
| 6 x 3 | 8¾ | 9¾ | 1¼ | 1½ | 1⅛ | 12.5 |
| 6 x 4 | 9¼ | 11 ³ / ₁₆ | 1 ¹⁵ / ₁₆ | 1½ | 1⅛ | 14.6 |
| 6 x 5 | 10¼ | 12½ | 2 ⁹ / ₁₆ | 1½ | 1½ | 17.6 |
| 6 | 10¾ | 14 ¹ / ₁₆ | 3 ⁵ / ₁₆ | 1½ | 1½ | 19.7 |
| 8 x 3 | 9 ¹³ / ₁₆ | 9 ¹⁵ / ₁₆ | ⅞ | 2 | 1⅛ | 17.5 |
| 8 x 4 | 10 ³ / ₈ | 11 ⁷ / ₁₆ | 1 ⁵ / ₁₆ | 2 | 1⅛ | 22.0 |
| 8 x 5 | 11 ³ / ₈ | 12 ¹³ / ₁₆ | 1 ⁵ / ₈ | 2 | 1½ | 23.9 |
| 8 x 6 | 11 ¹³ / ₁₆ | 14 ³ / ₁₆ | 2 ⁵ / ₁₆ | 2 | 1½ | 28.3 |
| 8 | 13 ³ / ₈ | 17 ⁷ / ₈ | 3¾ | 2 | 2 | 36.3 |
| 10 x 4 | 11 ¹¹ / ₁₆ | 12 ⁵ / ₈ | ¾ | 2 | 1⅛ | 32.9 |
| 10 x 6 | 13⅛ | 15 ⁷ / ₁₆ | 2 ³ / ₁₆ | 2 | 1½ | 42.1 |
| 10 x 8 | 14 ¹¹ / ₁₆ | 18 ³ / ₈ | 3 ⁵ / ₈ | 2 | 2 | 56.1 |
| 10 | 16½ | 21½ | 5 ¹ / ₁₆ | 2 | 2 | 74.9 |
| 12 | 19¾ | 25½ | 5¾ | 2¾ | 2¾ | 97.0 |
| 15 | 23¼ | 30 | 6¾ | 2¾ | 2¾ | 189.5 |



PART NO. NH 21

Double Wye

| Size | D | F | Weight |
|-------|----------------------------------|---------------------------------|--------|
| 2 | 4 ⁵ / ₈ | 6 ⁵ / ₈ | 4.5 |
| 3 x 2 | 5 ⁵ / ₁₆ | 6 ⁵ / ₈ | 5.5 |
| 3 | 5 ³ / ₄ | 8 | 7.9 |
| 4 x 2 | 6 | 6 ⁵ / ₈ | 6.5 |
| 4 x 3 | 6 ¹ / ₂ | 8 | 8.8 |
| 4 | 7 ¹ / ₁₆ | 9 ¹ / ₂ | 12.1 |
| 5 x 4 | 8 ¹ / ₂ | 11 ³ / ₁₆ | 15.7 |
| 6 x 4 | 9 ¹ / ₄ | 11 ³ / ₁₆ | 16.4 |
| 6 | 10 ³ / ₄ | 14 ¹ / ₁₆ | 27.4 |
| 8 | 13 ³ / ₈ | 17 ¹ / ₈ | 45.3 |
| 8 x 4 | 10 ³ / ₈ | 11 ⁷ / ₁₆ | 23.0 |
| 8 x 6 | 11 ¹³ / ₁₆ | 14 ³ / ₁₆ | 31.3 |

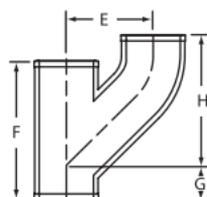


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PART NO. NH 21A

Upright Wye

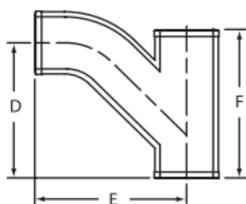
| Size | H | E | F | G | Weight |
|-------|---------------------------------|-------------------------------|--------------------------------|---------------------------------|--------|
| 2 | 8 ¹ / ₄ | 5 ¹ / ₂ | 7 | 2 | 4.8 |
| 3 x 2 | 8 ³ / ₁₆ | 5 ¹ / ₂ | 7 | 1 ¹ / ₂ | 5.7 |
| 3 | 8 ⁷ / ₁₆ | 5 ¹ / ₂ | 8 ³ / ₈ | 2 ³ / ₁₆ | 9.5 |
| 4 x 2 | 8 ¹ / ₄ | 5 ¹ / ₂ | 7 | 1 | 7.7 |
| 4 x 3 | 8 ⁷ / ₁₆ | 5 ¹ / ₂ | 8 ³ / ₈ | 1 ¹¹ / ₁₆ | 10.1 |
| 4 | 9 ¹ / ₈ | 6 | 9 ³ / ₄ | 2 ⁷ / ₁₆ | 12.9 |
| 5 x 2 | 9 | 6 ¹ / ₈ | 8 | 1 | 11.0 |
| 5 | 11 ⁷ / ₁₆ | 7 ¹ / ₈ | 12 ³ / ₄ | 2 ³ / ₄ | 19.9 |



PART NO. NH 22

Combination

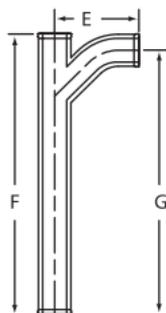
| Size | D | E | F | Weight |
|--------|----------------------------------|---------------------------------|----------------------------------|--------|
| 1½ | 4¾ | 5¾ | 6 | 3.1 |
| 2 x 1½ | 5 | 5¾ | 6 | 3.4 |
| 2 | 5¾ | 6⅛ | 6⅝ | 3.5 |
| 3 x 1½ | 5½ | 6¾ | 6⅝ | 5.0 |
| 3 x 2 | 5½ | 6¾ | 6⅝ | 5.7 |
| 3 | 7 ⁵ / ₁₆ | 8 | 8 | 8.5 |
| 4 x 2 | 5½ | 7¼ | 6⅝ | 6.6 |
| 4 x 3 | 7¼ | 8½ | 8 | 9.5 |
| 4 | 9¼ | 10 | 9½ | 13.7 |
| 5 x 2 | 5 ¹⁵ / ₁₆ | 7¾ | 8 ¹ / ₁₆ | 8.5 |
| 5 x 3 | 7¾ | 9 | 9 ¹¹ / ₁₆ | 12.0 |
| 5 x 4 | 9¾ | 10½ | 11 ³ / ₁₆ | 17.1 |
| 5 | 11¾ | 12½ | 12 ⁵ / ₈ | 19.7 |
| 6 x 2 | 6 | 8¼ | 8 ⁵ / ₁₆ | 12.0 |
| 6 x 3 | 7 ¹³ / ₁₆ | 9½ | 9¾ | 14.7 |
| 6 x 4 | 9¾ | 11 | 11 ³ / ₁₆ | 18.4 |
| 6 x 5 | 11 ¹¹ / ₁₆ | 13 | 12½ | 23.4 |
| 6 | 13 ⁵ / ₈ | 14¾ | 14 ¹ / ₁₆ | 30.0 |
| 8 x 4 | 9 ⁷ / ₁₆ | 11 ⁵ / ₁₆ | 11 ³ / ₁₆ | 25.1 |
| 8 x 6 | 12 | 13¾ | 13 ¹⁵ / ₁₆ | 35.4 |
| 8 | 14¾ | 15 ⁹ / ₁₆ | 16 ¹⁵ / ₁₆ | 49.3 |



PART NO. EZS 15

Extended Combination

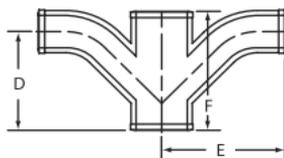
| Size | E | F | G | Weight |
|--------|--------------------------------|--------------------------------|-----|--------|
| 2 x 24 | 6 ³ / ₁₆ | 25 ³ / ₈ | 24 | 12.0 |
| 2 x 36 | 6 ³ / ₁₆ | 36 | 34¾ | 15.4 |



PART NO. NH 24

Double Combination

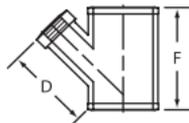
| Size | D | E | F | Weight |
|-------|--------------------------------|-------------------------------|-------------------------------|--------|
| 2 | 5 ³ / ₈ | 6 ¹ / ₈ | 6 ⁵ / ₈ | 6.3 |
| 3 x 2 | 5 ¹ / ₂ | 6 ³ / ₄ | 6 ⁵ / ₈ | 7.7 |
| 3 | 7 ⁵ / ₁₆ | 8 | 8 | 11.8 |
| 4 x 2 | 5 ¹ / ₂ | 7 ¹ / ₄ | 6 ⁵ / ₈ | 8.3 |
| 4 x 3 | 7 ¹ / ₄ | 8 ¹ / ₂ | 8 | 13.7 |
| 4 | 9 ¹ / ₄ | 10 | 9 ¹ / ₂ | 20.5 |

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PART NO. NH 26

Tapped Wye

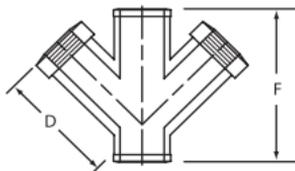
| Size | D | F | Weight |
|-----------------------------------|---------------------------------|-------------------------------|--------|
| 2 x 1 ¹ / ₂ | 5 ¹ / ₁₆ | 6 ⁵ / ₈ | 3.4 |
| 2 x 2 | 5 ¹ / ₁₆ | 6 ⁵ / ₈ | 4.6 |
| 3 x 1 ¹ / ₂ | 5 ³ / ₄ | 6 ⁵ / ₈ | 5.1 |
| 3 x 2 | 5 ¹³ / ₁₆ | 6 ⁵ / ₈ | 5.3 |
| 4 x 1 ¹ / ₂ | 6 ⁷ / ₁₆ | 6 ⁵ / ₈ | 6.0 |
| 4 x 2 | 6 ¹ / ₂ | 6 ⁵ / ₈ | 7.2 |



PART NO. NH 27

Tapped Double Wye

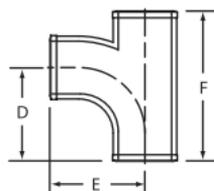
| Size | D | F | Weight |
|-----------------------------------|--------------------------------|-------------------------------|--------|
| 2 x 1 ¹ / ₂ | 5 ¹ / ₁₆ | 6 ⁵ / ₈ | 5.6 |



PART NO. NH 28

Sanitary Tee

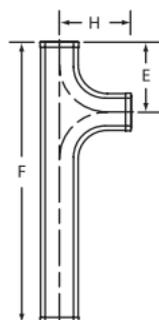
| Size | E | F | D | Weight |
|---------|----|----------------------------------|----|--------|
| 1½ x 1½ | 4¼ | 6½ | 4¼ | 2.9 |
| 2 x 1½ | 4½ | 6 ⁵ / ₈ | 4¼ | 3.4 |
| 2 | 4½ | 6 ⁷ / ₈ | 4½ | 3.1 |
| 3 x 1½ | 5 | 6½ | 4¼ | 4.5 |
| 3 x 2 | 5 | 6 ⁷ / ₈ | 4½ | 3.7 |
| 3 | 5 | 8 | 5 | 5.5 |
| 4 x 2 | 5½ | 6 ⁷ / ₈ | 4½ | 5.3 |
| 4 x 3 | 5½ | 8 | 5 | 7.6 |
| 4 | 5½ | 9 ¹ / ₈ | 5½ | 8.5 |
| 5 x 2 | 6½ | 8½ | 5 | 8.3 |
| 5 x 3 | 6 | 9 ⁵ / ₁₆ | 5½ | 10.2 |
| 5 x 4 | 6 | 10 ¹³ / ₃₂ | 6 | 11.5 |
| 5 | 6½ | 11 ⁷ / ₁₆ | 6½ | 12.5 |
| 6 x 2 | 6½ | 8 ³ / ₁₆ | 5 | 9.9 |
| 6 x 3 | 6½ | 9 ³ / ₁₆ | 5½ | 11.5 |
| 6 x 4 | 6½ | 10 ¹ / ₁₆ | 6 | 12.0 |
| 6 x 5 | 7 | 11½ | 6½ | 15.6 |
| 6 | 7 | 12½ | 7 | 12.9 |
| 8 x 3 | 7½ | 10 ³ / ₈ | 6 | 17.9 |
| 8 x 4 | 7½ | 11½ | 6½ | 21.6 |
| 8 x 5 | 8 | 12½ | 7 | 24.0 |
| 8 x 6 | 8 | 13½ | 7½ | 24.0 |
| 8 | 8½ | 15½ | 8½ | 30.8 |



PART NO. EZS 16

2" Two-Way Sanitary Tee

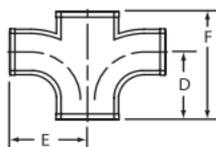
| Size | E | H | F | Weight |
|--------|----|----|----|--------|
| 2 x 18 | 4½ | 4½ | 18 | 7.8 |
| 2 x 24 | 4½ | 4½ | 24 | 10.4 |
| 2 x 36 | 4½ | 4½ | 36 | 15.6 |



PART NO. NH 30

Sanitary Cross

| Size | E | F | D | Weight |
|------|----|----------------------------------|----|--------|
| 1½ | 4¼ | 6½ | 4½ | 3.6 |
| 2 | 4½ | 6⅞ | 4½ | 5.0 |
| 3x2 | 5 | 6⅞ | 4½ | 6.2 |
| 3 | 5 | 8 | 5 | 7.6 |
| 4x2 | 5½ | 6⅞ | 4½ | 7.3 |
| 4x3 | 5½ | 8 | 5 | 8.5 |
| 4 | 5½ | 9⅞ | 5½ | 11.0 |
| 5x4 | 6 | 10 ¹³ / ₃₂ | 6 | 13.4 |
| 6x4 | 6½ | 10 ¹ / ₁₆ | 6 | 14.0 |
| 6 | 7 | 12½ | 7 | 21.0 |
| 8x4 | 7½ | 11½ | 6½ | 23.0 |
| 8 | 8½ | 15½ | 8½ | 37.9 |

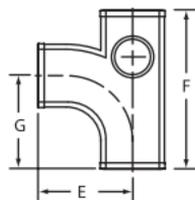
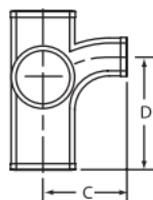


N O - H U B

PART NO. NH 31

**Sanitary Tee with 2" 90° Sanitary
Opening Above Center
(New Orleans Code)**

| Size | C | D | E | F | G | Weight |
|-------|----|----|----|--------------------------------|----|--------|
| 3 (L) | 4½ | 6 | 5 | 8½ | 5 | 6.7 |
| 3 (R) | 4½ | 6 | 5 | 8½ | 5 | 6.3 |
| 4 (L) | 5 | 6½ | 5½ | 9 ³ / ₁₆ | 5½ | 8.6 |
| 4 (R) | 5 | 6½ | 5½ | 9 ³ / ₁₆ | 5½ | 8.5 |

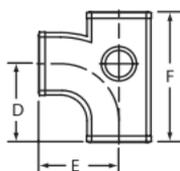


(Right Inlet)

PART NO. NH 32

**Sanitary Tee with 2" Side Inlets
Right Hand and Left Hand**

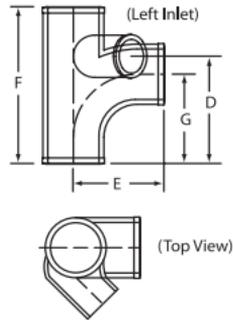
| Size | E | F | D | Weight |
|-----------------|--------------------------------|----|----|--------|
| 4 x 4 w/RH & LH | 5 ⁹ / ₁₆ | 9⅞ | 5½ | 10.9 |



PART NO. NH 32B

**Sanitary Tee with 2" 45° Sanitary
Opening Above Center
(New Orleans Code)**

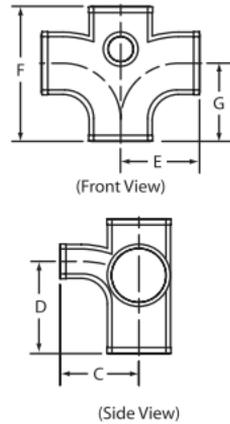
| Size | D | E | F | G | Weight |
|---------|----|----|----|----|--------|
| 3 (L) | 6 | 5 | 8½ | 5 | 8.2 |
| 3 (R) | 6 | 5 | 8½ | 5 | 7.8 |
| 3 (R&L) | 6 | 5 | 8½ | 5 | 9.1 |
| 4 (L) | 6½ | 5½ | 9¾ | 5½ | 9.6 |
| 4 (R) | 6½ | 5½ | 9¾ | 5½ | 9.4 |



PART NO. NH 33A

**Sanitary Cross with 2" 90° Sanitary
Openings Above Center
(New Orleans Code)**

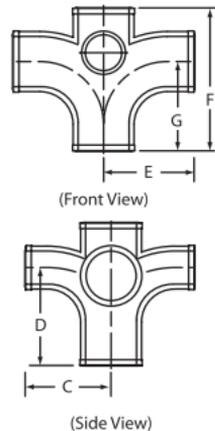
| Size | C | D | E | F | G | Weight |
|------|---|----|----|----|----|--------|
| 4 | 5 | 6½ | 5½ | 9¾ | 5½ | 10.8 |



PART NO. NH 33C

**Sanitary Cross with Two 2" 90°
Sanitary Openings Above Center
(New Orleans Code)**

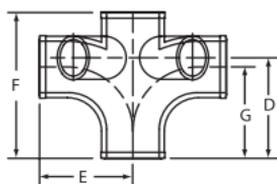
| Size | C | D | E | F | G | Weight |
|------|----|----|----|----|----|--------|
| 3 | 4½ | 6 | 5 | 8½ | 5 | 9.0 |
| 4 | 5 | 6½ | 5½ | 9¾ | 5½ | 11.9 |



PART NO. NH 33F

**Sanitary Cross with Two 2" 45° Sanitary
Openings Same Side
(New Orleans Code)**

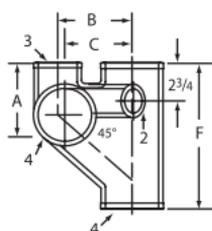
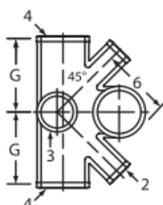
| Size | D | E | F | G | Weight |
|------|----|----|----|----|--------|
| 3 | 6 | 5 | 8½ | 5 | 9.8 |
| 4 | 5½ | 5½ | 9⅛ | 5½ | 13.8 |



PART NO. NH 33G

**Sanitary Cross with 3" Vent and
Two 2" 45° Inlets**

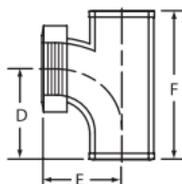
| Size | A | B | C | F | G | Weight |
|-----------|----|----|----|-----|----|--------|
| 4x3x4x2x2 | 3¾ | 5¼ | 4¾ | 10½ | 6½ | 24.0 |



PART NO. NH 34

Sanitary Tapped Tee

| Size | D | E | F | Weight |
|---------|-------------------------------|---------------------------------|---------------------------------|--------|
| 1½ x 1¼ | 3¼ | 2 ⁹ / ₁₆ | 5 ¹¹ / ₁₆ | 2.3 |
| 1½ x 1½ | 3¼ | 2 ⁹ / ₁₆ | 5 ¹¹ / ₁₆ | 2.5 |
| 2 x 1¼ | 3¼ | 2 ¹³ / ₁₆ | 5 ¹¹ / ₁₆ | 2.8 |
| 2 x 1½ | 3¼ | 2 ¹³ / ₁₆ | 5 ¹¹ / ₁₆ | 3.1 |
| 2 x 2 | 3¾ | 3 ¹ / ₁₆ | 6 ³ / ₈ | 3.8 |
| 3 x 1¼ | 3¼ | 3 ⁵ / ₁₆ | 5 ¹¹ / ₁₆ | 3.7 |
| 3 x 1½ | 3¼ | 3 ⁵ / ₁₆ | 5 ¹¹ / ₁₆ | 3.6 |
| 3 x 2 | 3¾ | 3 ⁹ / ₁₆ | 6 ³ / ₈ | 4.9 |
| 3 x 3 | 4 ⁷ / ₈ | 4 ¹ / ₈ | 8 | 7.3 |
| 4 x 1¼ | 3¼ | 3 ¹³ / ₁₆ | 5 ¹¹ / ₁₆ | 4.0 |
| 4 x 1½ | 3¼ | 3¾ | 5 ¹¹ / ₁₆ | 4.8 |
| 4 x 2 | 3¾ | 4 ¹ / ₁₆ | 6 ³ / ₈ | 5.8 |
| 4 x 3 | 4½ | 4 ³ / ₈ | 8 | 8.4 |
| 5 x 1½ | 3¾ | 4 ⁵ / ₁₆ | 7 ³ / ₁₆ | 6.5 |
| 5 x 2 | 4¼ | 4 ⁹ / ₁₆ | 8 | 9.3 |
| 6 x 1½ | 3¾ | 4 ¹³ / ₁₆ | 6¾ | 8.4 |
| 6 x 2 | 4¼ | 5 ¹ / ₁₆ | 7 ⁷ / ₁₆ | 9.2 |

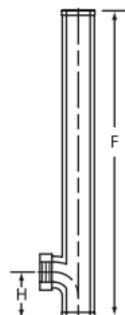


N O - H U B

PART NO. EZS 17

**2" x 22⁷/₈" Extended Tapped
Sanitary Tee**

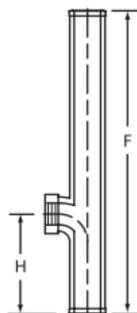
| Size | H | F | Weight |
|--|-------------------------------|--------------------------------|--------|
| 2 x 1 ¹ / ₂ x 22 ⁷ / ₈ | 3 ¹ / ₄ | 22 ⁷ / ₈ | 9.6 |
| 2 x 2 x 22 ⁷ / ₈ | 3 ³ / ₄ | 22 ⁷ / ₈ | 9.2 |



PART NO. EZS 27

Sanitary Tapped Tee

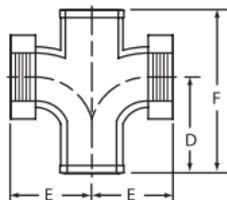
| Size | H | F | Weight |
|--|--------------------------------|----|--------|
| 2 x 1 ¹ / ₂ x 31 | 11 ¹ / ₄ | 31 | 12.6 |
| 2 x 2 x 31 | 11 ¹ / ₄ | 31 | 13.6 |



PART NO. NH 35

Sanitary Tapped Cross

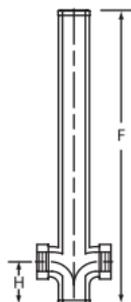
| Size | D | E | F | Weight |
|---|-------------------------------|---------------------------------|---------------------------------|--------|
| 1 ¹ / ₂ x 1 ¹ / ₂ | 3 ¹ / ₄ | 2 ⁹ / ₁₆ | 5 ¹¹ / ₁₆ | 3.4 |
| 2 x 1 ¹ / ₄ | 3 ¹ / ₄ | 2 ¹³ / ₁₆ | 5 ¹¹ / ₁₆ | 3.9 |
| 2 x 1 ¹ / ₂ | 3 ¹ / ₄ | 2 ¹³ / ₁₆ | 5 ¹¹ / ₁₆ | 4.0 |
| 2 x 2 | 3 ³ / ₄ | 3 ¹ / ₁₆ | 6 ³ / ₈ | 5.3 |
| 3 x 1 ¹ / ₂ | 3 ¹ / ₄ | 3 ⁵ / ₁₆ | 5 ¹¹ / ₁₆ | 4.3 |
| 3 x 2 | 3 ³ / ₄ | 3 ⁹ / ₁₆ | 6 ³ / ₈ | 6.1 |
| 4 x 1 ¹ / ₂ | 3 ¹ / ₄ | 3 ³ / ₄ | 5 ¹¹ / ₁₆ | 5.5 |
| 4 x 2 | 3 ³ / ₄ | 4 ¹ / ₁₆ | 6 ³ / ₈ | 6.9 |



PART NO. EZS 18

**2" x 22⁷/₈" Extended Tapped
Sanitary Cross**

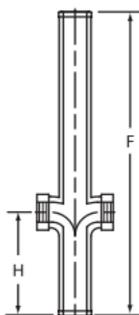
| Size | H | F | Weight |
|--|-------------------------------|--------------------------------|--------|
| 2 x 1 ¹ / ₂ x 22 ⁷ / ₈ | 3 ¹ / ₄ | 22 ⁷ / ₈ | 10.0 |
| 2 x 2 x 22 ⁷ / ₈ | 3 ³ / ₄ | 22 ⁷ / ₈ | 11.9 |



PART NO. EZS 28

Sanitary Tapped Cross

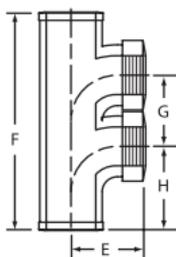
| Size | H | F | Weight |
|--|--------------------------------|----|--------|
| 2 x 1 ¹ / ₂ x 31 | 11 ¹ / ₄ | 31 | 15.0 |
| 2 x 2 x 31 | 11 ¹ / ₄ | 31 | 15.0 |



PART NO. NH 35B

**Double Vertical Sanitary
Tapped Tee**

| Size | E | F | G | H | Weight |
|-----------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|--------|
| 2 x 1 ¹ / ₂ | 2 ¹³ / ₁₆ | 9 ³ / ₄ | 4 ¹ / ₂ | 3 ¹ / ₄ | 4.8 |

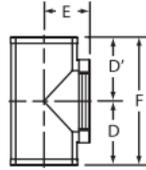


PART NO. NH 36

Test Tee Less Plug

and PART NO. NH 36S

**Test Tee with Southern
Raised-Head Brass Plug Installed
(2" through 8" only)**

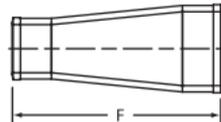


| Size | IPS Tap | E | F | D | D' | Weight |
|------|---------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------|
| 2 | 2 | 2 | 6 ³ / ₈ | 3 ³ / ₁₆ | 3 ³ / ₁₆ | 3.0 |
| 3 | 3 | 2 ¹ / ₁₆ | 7 ³ / ₄ | 3 ⁷ / ₈ | 3 ⁷ / ₈ | 5.8 |
| 4 | 4 | 3 | 8 ⁷ / ₈ | 4 ⁷ / ₁₆ | 4 ⁷ / ₁₆ | 9.2 |
| 5 | 5 | 4 ¹ / ₂ | 11 ¹ / ₂ | 5 ³ / ₄ | 5 ³ / ₄ | 15.2 |
| 6 | 6 | 5 | 12 ¹ / ₂ | 6 ¹ / ₄ | 6 ¹ / ₄ | 22.0 |
| 8 | 8 | 6 | 15 ¹ / ₄ | 7 ⁵ / ₈ | 7 ⁵ / ₈ | 37.1 |
| 10 | 10 | 6 ¹ / ₂ | 20 | 10 | 10 | 59.7 |

PART NO. NH 40

Increaser-Reducer

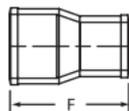
| Size | F | Weight |
|-------|---|--------|
| 2 x 3 | 8 | 3.8 |
| 2 x 4 | 8 | 4.4 |
| 3 x 4 | 8 | 5.0 |



PART NO. NH 40A

Short Reducer

| Size | F | Weight |
|---------|-------------------------------|--------|
| 2 x 1½ | 3 ⁵ / ₈ | 1.1 |
| 3 x 1½ | 3 ⁵ / ₈ | 1.8 |
| 3 x 2 | 3 ⁵ / ₈ | 1.8 |
| 4 x 2 | 3 ⁵ / ₈ | 2.3 |
| 4 x 3 | 3 ⁵ / ₈ | 2.3 |
| 5 x 2 | 4 | 3.3 |
| 5 x 3 | 4 | 3.8 |
| 5 x 4 | 4 | 3.2 |
| 6 x 2 | 4 | 4.3 |
| 6 x 3 | 4 | 3.7 |
| 6 x 4 | 4 | 4.1 |
| 6 x 5 | 4½ | 4.3 |
| 8 x 2 | 4½ | 7.0 |
| 8 x 3 | 4½ | 7.6 |
| 8 x 4 | 4½ | 7.7 |
| 8 x 5 | 5 | 7.3 |
| 8 x 6 | 5 | 8.0 |
| 10 x 4 | 5½ | 12.5 |
| 10 x 6 | 6 | 13.3 |
| 10 x 8 | 6 | 14.9 |
| 12 x 4 | 6½ | 19.1 |
| 12 x 6 | 6½ | 18.3 |
| 12 x 8 | 7 | 17.3 |
| 12 x 10 | 7½ | 18.9 |
| 15 x 4 | 7 | 30.0 |
| 15 x 6 | 7 | 31.8 |
| 15 x 8 | 7 | 32.2 |
| 15 x 10 | 7½ | 32.2 |
| 15 x 12 | 7¾ | 30.5 |

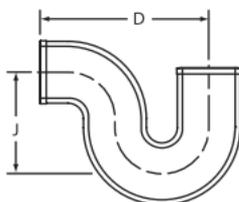


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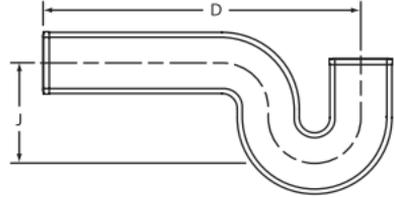
PART NO. NH 42

P-Trap

| Size | D | J | Weight |
|------|-----|----|--------|
| 1½ | 6¾ | 3½ | 3.4 |
| 2 | 7½ | 4 | 4.7 |
| 3 | 9 | 5½ | 8.9 |
| 4 | 10½ | 6½ | 17.0 |
| 6 | 14 | 8½ | 33.6 |



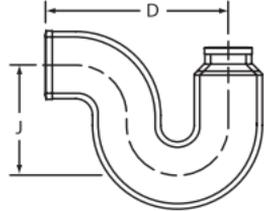
PART NO. NH 42



Long P-Trap

| Size | D | J | Weight |
|--------|----|---|--------|
| 2 x 12 | 12 | 4 | 6.1 |
| 2 x 18 | 18 | 4 | 8.0 |

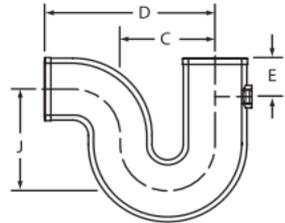
PART NO. NH 42A



P-Trap, Reducing

| Size | D | J | Weight |
|-------|---|-------|--------|
| 3 x 2 | 9 | 5 1/2 | 10.0 |

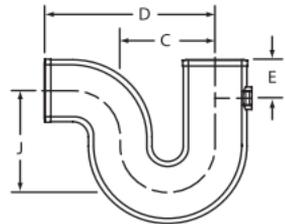
PART NO. NH 42B



P Trap with 1/2" Tap in Heel

| Size | C | D | E | J | Weight |
|------|---|----|-------|-------|--------|
| 6 | 8 | 14 | 2 3/4 | 8 1/2 | 33.6 |

PART NO. NH 43



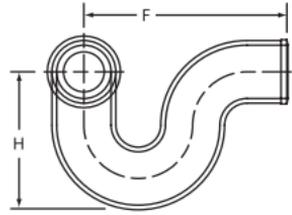
P Trap with 1/2" Tap in Heel

| Size | C | D | E | J | Weight |
|------|---|--------|---|-------|--------|
| 2 | 4 | 7 1/2 | 2 | 4 | 4.7 |
| 3 | 5 | 9 | 2 | 5 1/2 | 10.8 |
| 4 | 6 | 10 1/2 | 2 | 6 1/2 | 18.8 |

PART NO. EZS 9

P-Trap with 1 1/2" Tapped Side Inlet

| Size | H | F | Weight |
|------|--------|-------|--------|
| 2 | 5 3/16 | 7 1/2 | 6.2 |

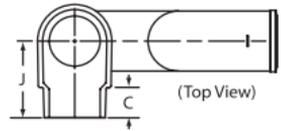


(Illustration Shows Right Hand)

PART NO. EZS 10

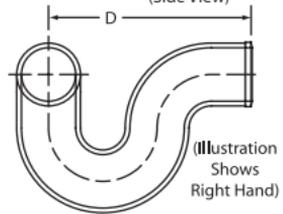
P-Trap with 2" Side Inlet

| Size | C | D | J | Weight |
|------|--------|-------|--------|--------|
| 2 | 1 3/16 | 7 1/2 | 3 1/16 | 6.4 |



(Top View)

(Side View)

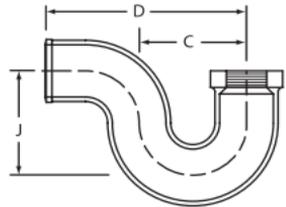


(Illustration Shows Right Hand)

PART NO. NH 44

P-Trap with Tapped Inlet

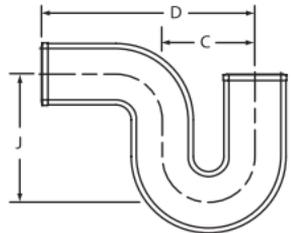
| Size | C | D | J | Weight |
|---------------|-------|-------|-------|--------|
| 1 1/2 x 1 1/2 | 3 1/2 | 6 3/4 | 3 1/2 | 3.0 |
| 2 x 1 1/2 | 4 | 7 1/2 | 4 | 4.5 |
| 2 x 2 | 4 | 7 1/2 | 4 | 5.4 |



PART NO. NH 44A

Deep Seal P Trap

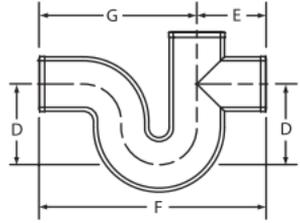
| Size | C | D | J | Weight |
|------|---|--------|---|--------|
| 2 | 4 | 7 1/2 | 7 | 6.6 |
| 3 | 5 | 9 | 7 | 11.0 |
| 4 | 6 | 10 1/2 | 8 | 18.6 |



PART NO. NH 45

Running Trap with Vent

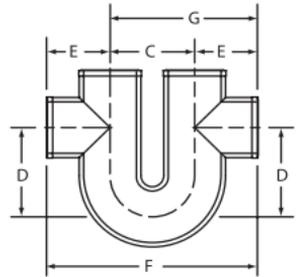
| Size | D | E | F | G | Weight |
|------|----|----|----|-----|--------|
| 4 | 6½ | 4½ | 15 | 10½ | 20.5 |



PART NO. NH 45A

Running Trap with Double Vent

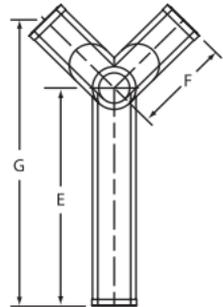
| Size | C | D | E | F | G | Weight |
|------|---|----|----|----|-----|--------|
| 4 | 6 | 6½ | 4½ | 15 | 10½ | 21.4 |



PART NO. EZS 13

45° Vented Tub Wye

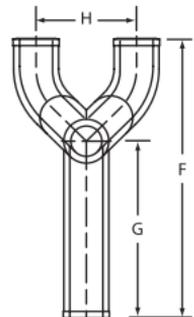
| Size | E | F | G | Weight |
|------|----|----|-----|--------|
| 2 | 12 | 5¼ | 15¾ | 10.1 |



PART NO. EZS 38

Vented Tub Wye

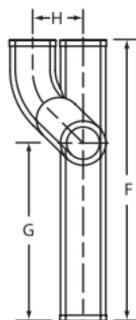
| Size | G | H | F | Weight |
|------|----|----|-----|--------|
| 2 | 9½ | 5¼ | 15 | 9.4 |
| 2 | 24 | 5¼ | 29½ | 13.7 |



PART NO. EZS 38 L

**Vented Tub Wye
Left Hand**

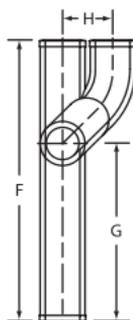
| Size | G | H | F | Weight |
|------|-------------------------------|-------------------------------|----|--------|
| 2 | 9 ¹ / ₂ | 3 ³ / ₄ | 15 | 10.0 |



PART NO. EZS 38 R

**Vented Tub Wye
Right Hand**

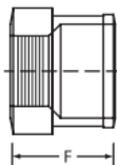
| Size | G | H | F | Weight |
|------|-------------------------------|-------------------------------|----|--------|
| 2 | 9 ¹ / ₂ | 3 ³ / ₄ | 15 | 9.0 |



PART NO. NH 48

Tapped Adapters

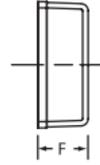
| Size | F | IPS Tapping | Weight |
|---|--------------------------------|-------------------------------|--------|
| 1 ¹ / ₂ x 1 ¹ / ₂ | 2 ⁵ / ₈ | 1 ¹ / ₂ | 1.3 |
| 2 x 1 ¹ / ₄ | 2 ³ / ₁₆ | 1 ¹ / ₄ | 1.0 |
| 2 x 1 ¹ / ₂ | 2 ³ / ₁₆ | 1 ¹ / ₂ | 0.9 |
| 2 x 2 | 2 ⁵ / ₈ | 2 | 1.7 |
| 3 x 2 | 2 ³ / ₁₆ | 2 | 1.0 |



PART NO. NH 50

Blind Plug

| Size | F | Weight |
|------|----|--------|
| 1½ | 1¾ | 0.6 |
| 2 | 1¾ | 0.7 |
| 3 | 1¾ | 1.1 |
| 4 | 1¾ | 2.0 |
| 5 | 1¾ | 2.9 |
| 6 | 1¾ | 3.2 |
| 8 | 2¼ | 6.5 |
| 10 | 3 | 14.7 |
| 12 | 3½ | 17.6 |
| 15 | 3½ | 28.0 |

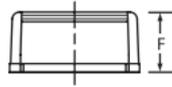


PART NO. NH 52

**Tapped Ferrule Less Brass Plug
and PART NO. NH 52S**

**Tapped Ferrule with Southern
Raised-Head Brass Plug Installed**

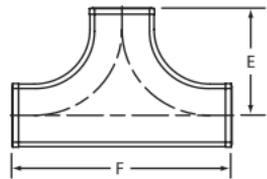
| Size | F | IPS | |
|------|--------------------------------|---------|--------|
| | | Tapping | Weight |
| 2 | 2 ³ / ₁₆ | 1½ | 0.9 |
| 3 | 2 ³ / ₁₆ | 2½ | 1.9 |
| 4 | 2 ³ / ₁₆ | 3½ | 2.5 |
| 5 | 4½ | 4 | 6.5 |
| 6 | 4½ | 5 | 8.0 |
| 8 | 4½ | 6 | 12.1 |



PART NO. NH 53

Single Two-Way Cleanout

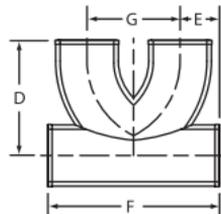
| Size | E | F | Weight |
|------|----|----|--------|
| 4 | 7½ | 15 | 16.0 |



PART NO. NH 53A

Two-Way Cleanout

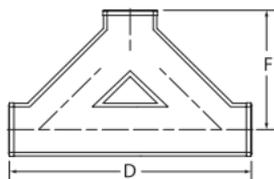
| Size | D | E | F | G | Weight |
|------|----|----|----|----|--------|
| 4 | 8¼ | 2¾ | 12 | 6½ | 15.0 |



PART NO. NH 54

Two-Way Baffle Cleanout

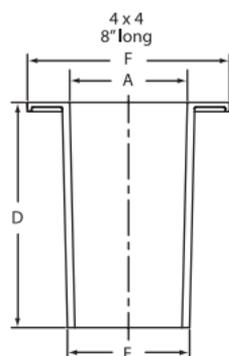
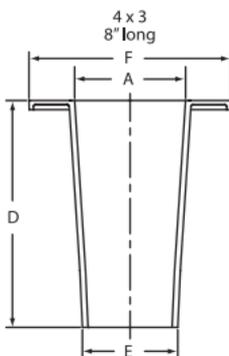
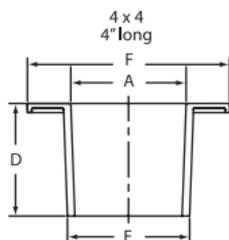
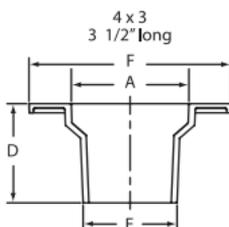
| Size | D | F | Weight |
|-----------|--------------------------------|-------------------------------|--------|
| 3 x 3 x 4 | 15 | 9 | 14.2 |
| 4 x 4 x 4 | 18 ³ / ₈ | 9 ¹ / ₂ | 22.0 |



PART NO. NH 56

Notched and Slotted Closet Collar

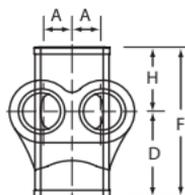
| Size | D | E | F | A | Weight |
|-------|-------------------------------|---------------------------------|-------------------------------|--------------------------------|--------|
| 4 x 3 | 3 ¹ / ₂ | 3 ³ / ₈ | 7 ¹ / ₄ | 4 ⁷ / ₃₂ | 3.3 |
| 4 x 3 | 8 | 3 ²⁷ / ₆₄ | 7 ¹ / ₄ | 4 | 6.1 |
| 4 x 4 | 4 | 4 ³ / ₈ | 7 ¹ / ₄ | 4 ⁹ / ₆₄ | 4.7 |
| 4 x 4 | 8 | 4 ³ / ₈ | 7 ¹ / ₄ | 4 ⁷ / ₃₂ | 7.0 |



PART NO. NH 57

Horizontal Twin Tapped Tee

| Size | A | D | F | H | Weight |
|-----------------------------------|-------------------------------|---|---|---|--------|
| 3 x 1 ¹ / ₂ | 1 ³ / ₈ | 4 | 7 | 3 | 7.3 |
| 4 x 1 ¹ / ₂ | 1 ³ / ₈ | 4 | 7 | 3 | 8.0 |



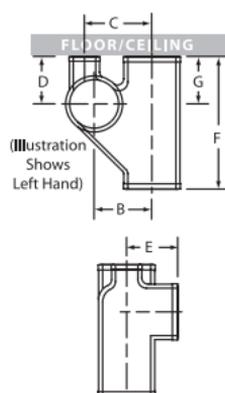
N O - H U B

PART NO. NH 457

**Vented Closet Tee
with 2" Top Vent**

(Left or Right; Designed for use below the floor;
Fitting does not require a baffle)

| Size | B | C | D | E | F | G | Wt. |
|------------|-------------------------------|-------------------------------|-------------------------------|---|--------------------------------|-------------------------------|------|
| 4x4x2x4(L) | 4 ¹ / ₄ | 5 ¹ / ₄ | 3 ³ / ₄ | 4 | 10 ¹ / ₂ | 3 ³ / ₄ | 12.1 |
| 4x4x2x4(R) | 4 ¹ / ₄ | 5 ¹ / ₄ | 3 ³ / ₄ | 4 | 10 ¹ / ₂ | 3 ³ / ₄ | 11.6 |



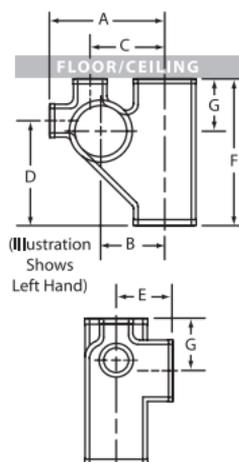
PART NO. NH 458[‡]

Vented Closet Tee

with 2" Top Vent and 2" Side Opening

(Left or Right; Designed for use below the floor;
Fitting does not require a baffle)

| Size | A | B | C | D | E | F | G | Wt. |
|--------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---|--------------------------------|-------------------------------|------|
| 4x4x2x2x4(L) | 8 ¹ / ₈ | 4 ¹ / ₄ | 5 ¹ / ₄ | 7 ¹ / ₂ | 4 | 10 ¹ / ₂ | 3 ³ / ₄ | 12.3 |
| 4x4x2x2x4(R) | 8 ¹ / ₈ | 4 ¹ / ₄ | 5 ¹ / ₄ | 7 ¹ / ₂ | 4 | 10 ¹ / ₂ | 3 ³ / ₄ | 12.2 |

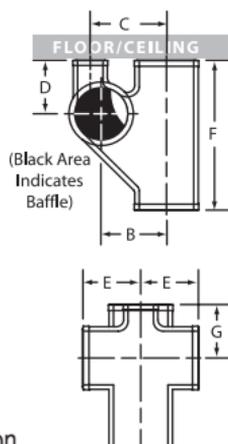


PART NO. NH 463

Vented Closet Cross with 2" Top Vent

(Designed for use below the floor;
Fitting has a baffle)

| Size | B | C | D | E | F | G | Wt. |
|-----------|-------------------------------|-------------------------------|-------------------------------|---|--------------------------------|-------------------------------|------|
| 4x4x2x4x4 | 4 ¹ / ₄ | 5 ¹ / ₄ | 3 ³ / ₄ | 4 | 10 ¹ / ₂ | 3 ³ / ₄ | 15.0 |

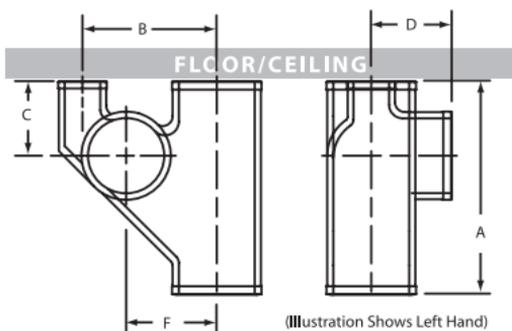


[‡] Additional drawing available in Detail Drawing Section

PART NO. EZS 50*

10'' Closet Fittings with 2'' Inlet
(Double, Left Hand or Right Hand; Designed for use below the floor;
Fitting does not have a baffle)

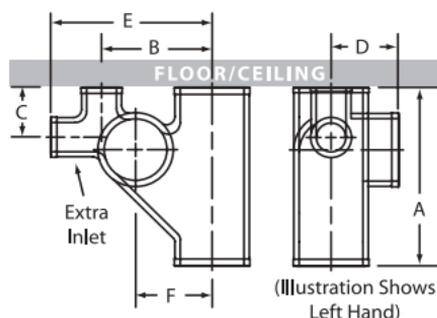
| Part No. | Size | UPC# 611942- | A | B | C | D | F | Weight |
|------------|------|--------------|--------------------------------|-------------------------------|-------------------------------|---|-------------------------------|--------|
| EZS 50D*** | 4 | 04484 | 10 ³ / ₄ | 6 ¹ / ₂ | 3 ³ / ₄ | 4 | 4 ¹ / ₂ | 15.0 |
| EZS 50L | 4 | 04476 | 10 ³ / ₄ | 6 ¹ / ₂ | 3 ³ / ₄ | 4 | 4 ¹ / ₂ | 12.3 |
| EZS 50R | 4 | 04477 | 10 ³ / ₄ | 6 ¹ / ₂ | 3 ³ / ₄ | 4 | 4 ¹ / ₂ | 12.2 |



PART NO. EZS 51*

10'' Closet Fittings with 2'' Inlet and 2'' Side Inlet
(Double, Left Hand or Right Hand; Designed for use below the floor;
Fitting does not have a baffle)

| Part No. | Size | UPC# 611942- | A | B | C | D | E | F | Weight |
|------------|------|--------------|--------------------------------|-------------------------------|---|---|-------------------------------|-------------------------------|--------|
| EZS 51D*** | 4 | 04424 | 10 ³ / ₄ | 6 ¹ / ₂ | 3 | 4 | 9 ¹ / ₂ | 4 ¹ / ₂ | 15.0 |
| EZS 51L | 4 | 04425 | 10 ³ / ₄ | 6 ¹ / ₂ | 3 | 4 | 9 ¹ / ₂ | 4 ¹ / ₂ | 12.8 |
| EZS 51R | 4 | 04473 | 10 ³ / ₄ | 6 ¹ / ₂ | 3 | 4 | 9 ¹ / ₂ | 4 ¹ / ₂ | 12.6 |



* When ordering please specify Double, Left or Right.

*** Double closet fitting does not have a baffle.

HOW TO DETERMINE RIGHT or LEFT HAND CROSS-OVER



With the vented end toward you, hold the fitting so that you are looking into its length with the curved side up. If the vent is on your left side, it is a Left Hand fitting. If the vent is on your right side, it is a Right Hand fitting.

RIGHT HAND CROSS-OVER ILLUSTRATED

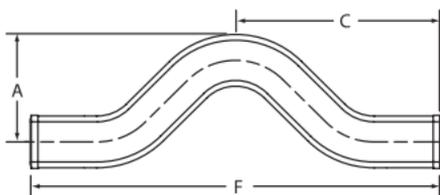
Note: VENT CROSS-OVER
for use with EZS-50 through 800 Series fittings.
Specify Right, Left, Plain or Double.

Note: Our crossovers are designed for use with EZS starter fittings, that is for the vent and stack centerline to be 6½"

PART NO. EZS 7

2" Vent Cross-Over, Plain (No Outlets)

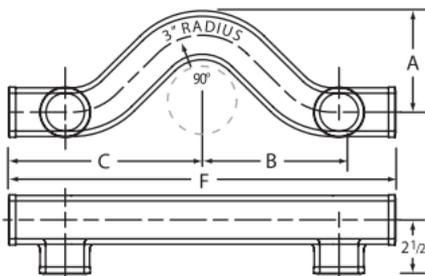
| U.P.C. No. | Size | A | C | F | Weight |
|------------|------------------------------------|-------------------------------|--------------------------------|--------------------------------|--------|
| 04429 | 2 x 18 ³ / ₈ | 4 ⁷ / ₈ | 9 ³ / ₁₆ | 18 ³ / ₈ | 8.1 |



PART NO. EZS 7D

2" Vent Cross-Over, Double (2 Inlets)

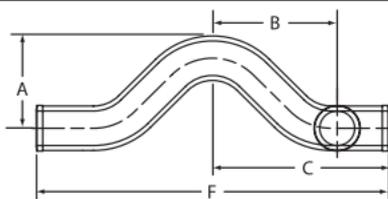
| U.P.C. No. | Size | A | B | C | F | Weight |
|------------|------------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------|
| 04430 | 2 x 18 ³ / ₈ | 4 ⁷ / ₈ | 6 ¹ / ₂ | 9 ³ / ₁₆ | 18 ³ / ₈ | 8.0 |



PART NO. EZS 7L

**2" Vent Cross-Over
with Left Hand Inlet**

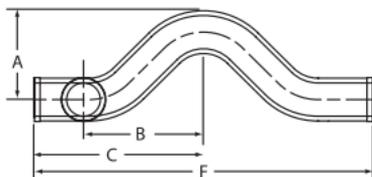
| U.P.C. No. | Size | A | B | C | F | Weight |
|------------|------------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------|
| 611942 | | | | | | |
| 04431 | 2 x 18 ³ / ₈ | 4 ⁷ / ₈ | 6 ¹ / ₂ | 9 ³ / ₁₆ | 18 ³ / ₈ | 8.2 |



PART NO. EZS 7R

**2" Vent Cross-Over
with Right Hand Inlet**

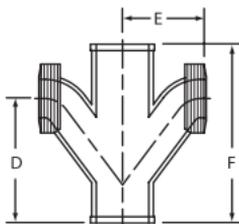
| U.P.C. No. | Size | A | B | C | F | Weight |
|------------|------------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------|
| 611942 | | | | | | |
| 04432 | 2 x 18 ³ / ₈ | 4 ⁷ / ₈ | 6 ¹ / ₂ | 9 ³ / ₁₆ | 18 ³ / ₈ | 8.4 |



PART NO. EZS 1

Figure One

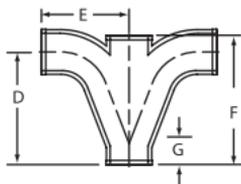
| Size | E | F | D | Weight |
|-----------------------------------|--------------------------------|---|-------------------------------|--------|
| 2 x 1 ¹ / ₂ | 3 ³ / ₁₆ | 7 | 4 ⁷ / ₈ | 5.3 |



PART NO. NH 25

Figure Five Double Fixture Fitting

| Size | D | E | F | G | Weight |
|---------------|-----|-------|-----|-------|--------|
| 2 | 6½ | 5 | 8 | 1⅓/16 | 7.0 |
| 3 | 8⅞ | 6⅑/16 | 10⅛ | 2 | 10.5 |
| 3 x 2 x 3 x 3 | 8⅞ | 6⅑/16 | 9¼ | 2 | 10.7 |
| 4 | 10¼ | 7¾ | 12 | 1⅕/16 | 22.5 |
| 4 x 2 x 4 x 4 | 10¼ | 7¾ | 11½ | 1⅕/16 | 19.8 |



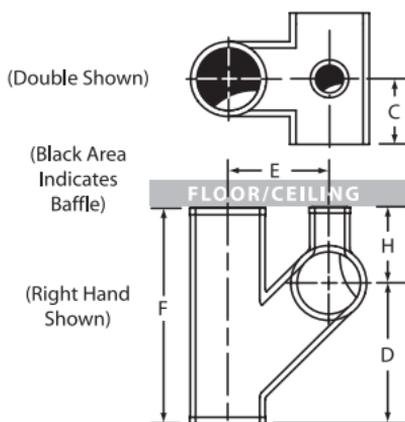
NO-HUB

PART NO. EZS 6*

Figure Six

(Double, Left Hand or Right Hand; Designed for use below the floor)

| Part No. | Size | C | D | E | F | H | Weight |
|----------|------|----|--------------------------------|--------------------------------|----|--------------------------------|--------|
| EZS 6D** | 3x2 | 4⅛ | 7 ⁹ / ₁₆ | 5 ¹ / ₁₆ | 11 | 3 ⁷ / ₁₆ | 13.0 |
| EZS 6D** | 4x2 | 4½ | 9 | 6½ | 13 | 4 | 23.1 |
| EZS 6L | 3x2 | 4⅛ | 7 ⁹ / ₁₆ | 5 ¹ / ₁₆ | 11 | 3 ⁷ / ₁₆ | 11.4 |
| EZS 6L | 4x2 | 4½ | 9 | 6½ | 13 | 4 | 18.0 |
| EZS 6R | 3x2 | 4⅛ | 7 ⁹ / ₁₆ | 5 ¹ / ₁₆ | 11 | 3 ⁷ / ₁₆ | 11.4 |
| EZS 6R | 4x2 | 4½ | 9 | 6½ | 13 | 4 | 18.0 |



* When ordering please specify Double, Left or Right.

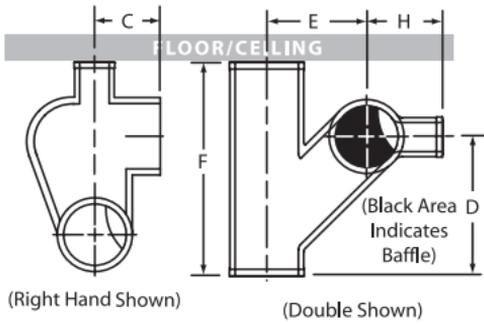
** Double fitting has a baffle.

PART NO. EZS 8*

Figure Eight

(Double, Left Hand or Right Hand; Designed for use below the floor)

| Part No. | Size | C | D | E | F | H | Weight |
|----------|------|-------------------------------|--------------------------------|--------------------------------|----|--------------------------------|--------|
| EZS 8D** | 3x2 | 4 ¹ / ₈ | 7 ⁹ / ₁₆ | 5 ¹ / ₁₆ | 11 | 3 ⁷ / ₁₆ | 13.0 |
| EZS 8L | 3x2 | 4 ¹ / ₈ | 7 ⁹ / ₁₆ | 5 ¹ / ₁₆ | 11 | 3 ⁷ / ₁₆ | 12.5 |
| EZS 8L | 4x2 | 4 ¹ / ₂ | 9 | 6 ¹ / ₂ | 13 | 4 | 19.8 |
| EZS 8R | 3x2 | 4 ¹ / ₈ | 7 ⁹ / ₁₆ | 5 ¹ / ₁₆ | 11 | 3 ⁷ / ₁₆ | 12.5 |
| EZS 8R | 4x2 | 4 ¹ / ₂ | 9 | 6 ¹ / ₂ | 13 | 4 | 19.8 |

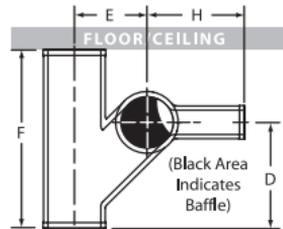


PART NO. EZS 8A

Figure Eight Double Fixture Fitting, Extended**

(Designed for Use Below the Floor)

| Size | D | E | F | H | Weight |
|-------|---|-------------------------------|----|---|--------|
| 4 x 2 | 9 | 6 ¹ / ₂ | 13 | 8 | 23.4 |



* When ordering please specify Double, Left or Right.

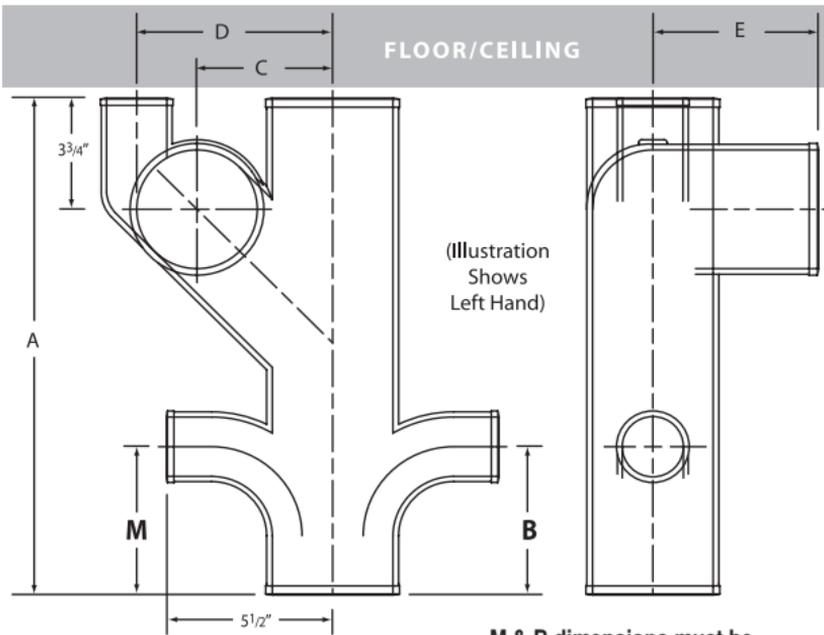
** Double fitting has a baffle.

PART NO. EZS 100*

16" Closet Fittings with 2" Inlets

(Double, Left Hand or Right Hand; Designed for use below the floor)

| Part No. | Size | A | B | C | D | E | M | Weight |
|----------|------|--------------------------------|---|-------------------------------|-------------------------------|-------------------------------|---|--------|
| EZS 100D | 4x16 | 16 ³ / ₄ | 5 | 4 ¹ / ₂ | 6 ¹ / ₂ | 5 ¹ / ₂ | 5 | 22.0 |
| EZS 100L | 4x16 | 16 ³ / ₄ | 5 | 4 ¹ / ₂ | 6 ¹ / ₂ | 5 ¹ / ₂ | 5 | 20.0 |
| EZS 100R | 4x16 | 16 ³ / ₄ | 5 | 4 ¹ / ₂ | 6 ¹ / ₂ | 5 ¹ / ₂ | 5 | 21.1 |



M & B dimensions must be measured from the bottom of the fitting.

* When ordering please specify Double, Left or Right.

PART NO. EZS 400*†
30" Closet Fittings with 2" Inlet
(Double, Left Hand or Right Hand; Designed for use in the floor)

| Part No. | Size | A | B | C | D | E | M | Weight |
|----------|------|----|-----|----|----|----|----|--------|
| EZS 400L | 4x30 | 30 | 0 | 4½ | 6½ | 5½ | 0 | 34.0 |
| EZS 400L | 4x30 | 30 | 6½ | 4½ | 6½ | 5½ | 0 | 34.2 |
| EZS 400L | 4x30 | 30 | 12 | 4½ | 6½ | 5½ | 0 | 37.8 |
| EZS 400L | 4x30 | 30 | 26½ | 4½ | 6½ | 5½ | 0 | 34.3 |
| EZS 400L | 4x30 | 30 | 0 | 4½ | 6½ | 5½ | 4 | 34.0 |
| EZS 400L | 4x30 | 30 | 26½ | 4½ | 6½ | 5½ | 4 | 34.0 |
| EZS 400L | 4x30 | 30 | 0 | 4½ | 6½ | 5½ | 6½ | 33.1 |
| EZS 400L | 4x30 | 30 | 6½ | 4½ | 6½ | 5½ | 6½ | 34.0 |
| EZS 400L | 4x30 | 30 | 26½ | 4½ | 6½ | 5½ | 6½ | 36.8 |
| EZS 400L | 4x30 | 30 | 0 | 4½ | 6½ | 5½ | 12 | 31.0 |
| EZS 400L | 4x30 | 30 | 26½ | 4½ | 6½ | 5½ | 12 | 30.0 |
| <hr/> | | | | | | | | |
| EZS 400R | 4x30 | 30 | 0 | 4½ | 6½ | 5½ | 0 | 32.9 |
| EZS 400R | 4x30 | 30 | 6½ | 4½ | 6½ | 5½ | 0 | 34.5 |
| EZS 400R | 4x30 | 30 | 12 | 4½ | 6½ | 5½ | 0 | 37.1 |
| EZS 400R | 4x30 | 30 | 26½ | 4½ | 6½ | 5½ | 0 | 33.8 |
| EZS 400R | 4x30 | 30 | 0 | 4½ | 6½ | 5½ | 4 | 34.0 |
| EZS 400R | 4x30 | 30 | 26½ | 4½ | 6½ | 5½ | 4 | 28.9 |
| EZS 400R | 4x30 | 30 | 0 | 4½ | 6½ | 5½ | 6½ | 33.9 |
| EZS 400R | 4x30 | 30 | 6½ | 4½ | 6½ | 5½ | 6½ | 35.4 |
| EZS 400R | 4x30 | 30 | 26½ | 4½ | 6½ | 5½ | 6½ | 35.4 |
| EZS 400R | 4x30 | 30 | 0 | 4½ | 6½ | 5½ | 12 | 31.0 |
| EZS 400R | 4x30 | 30 | 26½ | 4½ | 6½ | 5½ | 12 | 28.5 |

(EZS 400 is continued on the following page.)

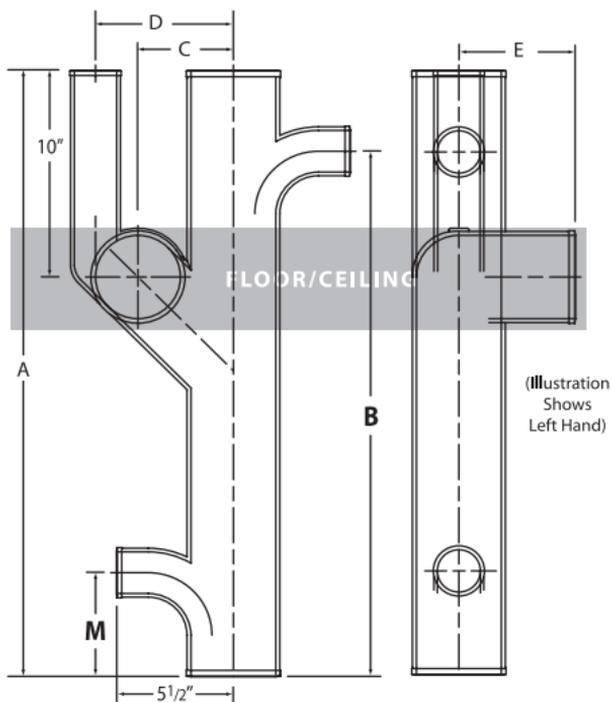
* When ordering please specify Double, Left or Right.

† Additional drawing available in Detail Drawing Section

PART NO. EZS 400, continued

| Part No. | Size | A | B | C | D | E | M | Weight |
|----------|------|----|--------|-------|-------|-------|-------|--------|
| EZS 400D | 4x30 | 30 | 0 | 4 1/2 | 6 1/2 | 5 1/2 | 0 | 29.3 |
| EZS 400D | 4x30 | 30 | 6 1/2 | 4 1/2 | 6 1/2 | 5 1/2 | 0 | 36.4 |
| EZS 400D | 4x30 | 30 | 12 | 4 1/2 | 6 1/2 | 5 1/2 | 0 | 39.6 |
| EZS 400D | 4x30 | 30 | 0 | 4 1/2 | 6 1/2 | 5 1/2 | 4 | 38.0 |
| EZS 400D | 4x30 | 30 | 0 | 4 1/2 | 6 1/2 | 5 1/2 | 6 1/2 | 35.6 |
| EZS 400D | 4x30 | 30 | 26 1/2 | 4 1/2 | 6 1/2 | 5 1/2 | 6 1/2 | 38.9 |
| EZS 400D | 4x30 | 30 | 0 | 4 1/2 | 6 1/2 | 5 1/2 | 12 | 35.7 |
| EZS 400D | 4x30 | 30 | 26 1/2 | 4 1/2 | 6 1/2 | 5 1/2 | 12 | 38.0 |

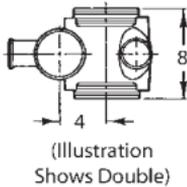
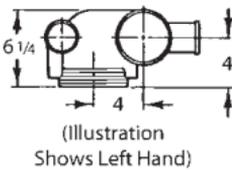
N O - H U B



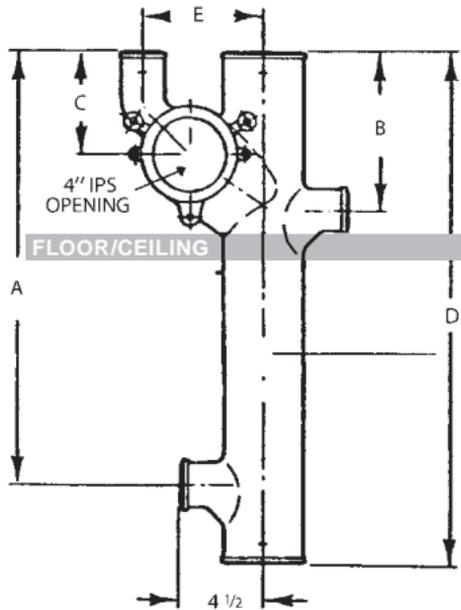
PART NO. EZS 700†**

Threaded Starter Fitting with or without No-Hub Inlets
(Double, Left Hand or Right Hand; Designed for use above the floor with
back-outlet water closets; Double Starter fittings have a baffle)

| Part No. | Size | A | B | C | D | E | Weight |
|------------|------|-----|----|----|----|----|--------|
| EZS 700D** | 4x28 | 0 | 0 | 5½ | 28 | 6½ | 40.0 |
| EZS 700D** | 4x28 | 0 | 8½ | 5½ | 28 | 6½ | 42.0 |
| EZS 700D** | 4x28 | 23½ | 8½ | 5½ | 28 | 6½ | 42.0 |
| EZS 700L | 4x28 | 0 | 0 | 5½ | 28 | 6½ | 34.6 |
| EZS 700L | 4x28 | 0 | 8½ | 5½ | 28 | 6½ | 35.7 |
| EZS 700L | 4x28 | 14 | 8½ | 5½ | 28 | 6½ | 36.3 |
| EZS 700L | 4x28 | 23½ | 8½ | 5½ | 28 | 6½ | 32.0 |
| EZS 700R | 4x28 | 0 | 0 | 5½ | 28 | 6½ | 30.0 |
| EZS 700R | 4x28 | 0 | 8½ | 5½ | 28 | 6½ | 34.0 |
| EZS 700R | 4x28 | 14 | 8½ | 5½ | 28 | 6½ | 35.3 |
| EZS 700R | 4x28 | 23½ | 8½ | 5½ | 28 | 6½ | 32.0 |



A & B Dimensions must be measured from the top of the fitting.



2" inlets available

* When ordering please specify Double, Left or Right.

** Double starter fittings have a baffle.

Note: Trim package not included in price of fitting

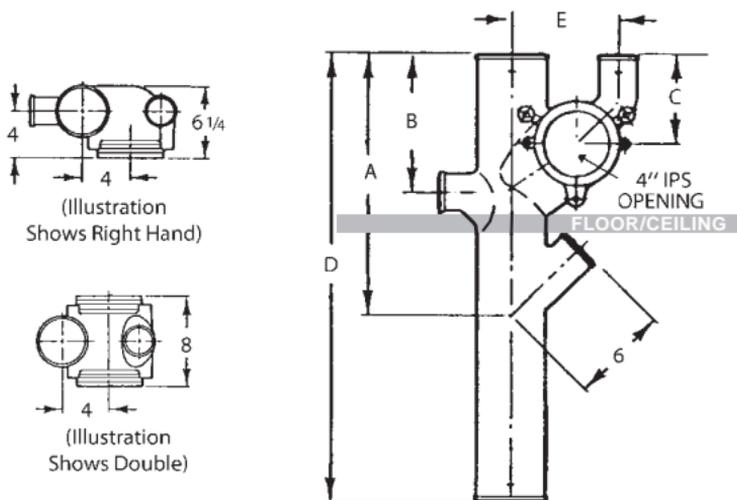
“O” dimension denotes the absence of the designated inlet.

† Additional drawing available in Detail Drawing Section

PART NO. EZS 800*†

Threaded Starter Fitting with or without No-Hub Inlets
(Double, Left Hand or Right Hand; Designed for use above the floor with back-outlet water closets; Double starter fittings have a baffle)

| Part No. | Size | A | B | C | D | E | Weight |
|------------|------|----|----|----|----|----|--------|
| EZS 800D** | 4x28 | 16 | 0 | 5½ | 28 | 6½ | 42.0 |
| EZS 800D** | 4x28 | 16 | 8½ | 5½ | 28 | 6½ | 42.0 |
| EZS 800L | 4x28 | 16 | 0 | 5½ | 28 | 6½ | 35.4 |
| EZS 800L | 4x28 | 16 | 8½ | 5½ | 28 | 6½ | 36.3 |
| EZS 800R | 4x28 | 16 | 0 | 5½ | 28 | 6½ | 35.6 |
| EZS 800R | 4x28 | 16 | 8½ | 5½ | 28 | 6½ | 35.3 |



A & B Dimensions must be measured from the top of the fitting.

2" inlets available

* When ordering please specify Double, Left or Right.

** Double starter fittings have a baffle.

Note: Trim package not included in price of fitting

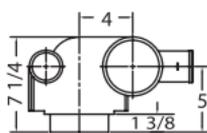
“0” dimension denotes the absence of the designated inlet.

† Additional drawing available in Detail Drawing Section

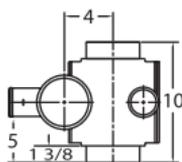
PART NO. EZS 710*

No-Hub Starter Fitting with or without 2" No-Hub Inlets
(Double, Left Hand or Right Hand; Designed for use above the floor with back-outlet water closets; Double starter fittings have a baffle)

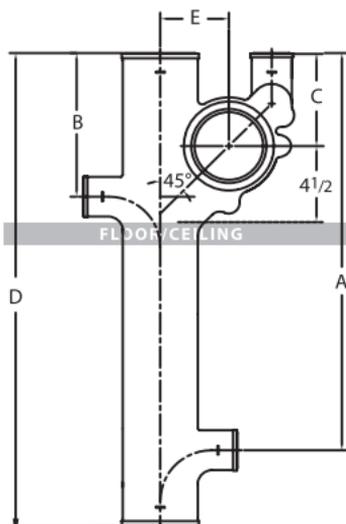
| Part No. | Size | A | B | C | D | E | Weight |
|------------|------|--------|-------|-------|----------|------|--------|
| EZS 710D** | 4x28 | 0 | 0 | 5 1/2 | 28 | 4 | 43.0 |
| EZS 710D** | 4x28 | 0 | 8 1/2 | 5 1/2 | 28 | 4 | 43.0 |
| EZS 710D** | 4x28 | 23 1/2 | 8 1/2 | 5 1/2 | 28 | 4 | 43.0 |
| EZS 710L | 4x28 | 0 | 0 | 5 1/2 | 28 | 4 | 36.6 |
| EZS 710L | 4x28 | 0 | 8 1/2 | 5 1/2 | 28 | 4 | 36.6 |
| EZS 710L | 4x28 | 14 | 8 1/2 | 5 1/2 | 28 | 4 | 36.6 |
| EZS 710L | 4x28 | 23 1/2 | 8 1/2 | 5 1/2 | 28 | 4 | 36.6 |
| EZS 710R | 4x28 | 0 | 0 | 5 1/2 | 28 | 4 | 36.6 |
| EZS 710R | 4x28 | 0 | 8 1/2 | 5 1/2 | 28 | 4 | 36.6 |
| EZS 710R | 4x28 | 14 | 8 1/2 | 5 1/2 | 28 | 4 | 36.6 |
| EZS 710R | 4x28 | 23 1/2 | 8 1/2 | 5 1/2 | 28 <td 4 | 36.6 | |



(Illustration Shows Left Hand)



(Illustration Shows Double)



2" inlets available

A & B Dimensions must be measured from the top of the fitting.

* When ordering please specify Double, Left or Right.

** Double starter fittings have a baffle.

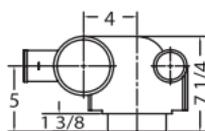
Note: Not designed for use with trim package

“0” dimension denotes the absence of the designated inlet.

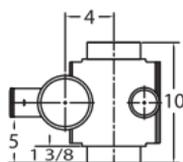
PART NO. EZS 810*

No-Hub Starter Fitting with or without 2" No-Hub Inlets
(Double, Left Hand or Right Hand; Designed for use above the floor with back-outlet water closets; Double starter fittings have a baffle)

| Part No. | Size | A | B | C | D | E | Weight |
|------------|------|----|-------|-------|----|-------|--------|
| EZS 810D** | 4x28 | 16 | 0 | 5 1/2 | 28 | 6 1/2 | 43.0 |
| EZS 810D** | 4x28 | 16 | 8 1/2 | 5 1/2 | 28 | 6 1/2 | 43.0 |
| EZS 810L | 4x28 | 16 | 0 | 5 1/2 | 28 | 6 1/2 | 36.6 |
| EZS 810L | 4x28 | 16 | 8 1/2 | 5 1/2 | 28 | 6 1/2 | 36.6 |
| EZS 810R | 4x28 | 16 | 0 | 5 1/2 | 28 | 6 1/2 | 36.6 |
| EZS 810R | 4x28 | 16 | 8 1/2 | 5 1/2 | 28 | 6 1/2 | 36.6 |

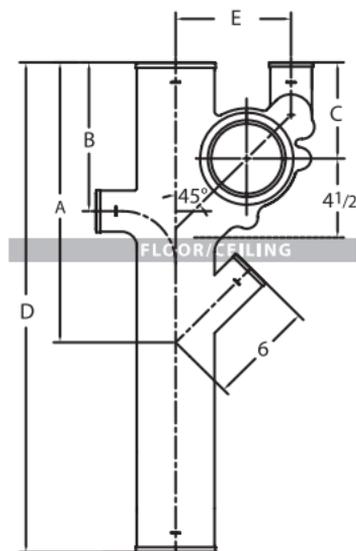


(Illustration Shows Right Hand)



(Illustration Shows Double)

A & B Dimensions must be measured from the top of the fitting.



2" inlets available

* When ordering please specify Double, Left or Right.

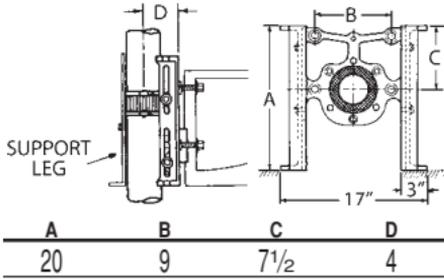
** Double starter fittings have a baffle.

Note: Not designed for use with trim package

“O” dimension denotes the absence of the designated inlet.

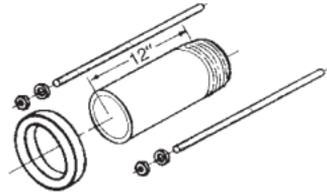
MOUNTING HARDWARE

PART NO. EZS 22
Trim Package, Support Frame Assembly



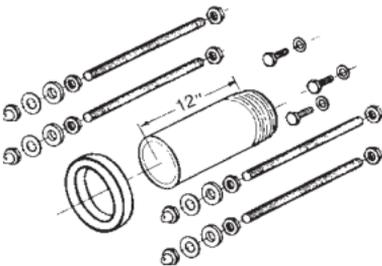
- 1—FRAME
- 1—LEFT LEG
- 1—RIGHT LEG
- 1—SUPPORT LEG (used for single only)
- 5—1/2" x 1 1/4" BOLTS
- 5—1/2" FLAT WASHERS

PART NO. EZS 23
Trim Package, Floor-Mounted Back-Outlet Assembly
(Note: Not to be used with PART NO. EZS 22 Support Frame Assembly)



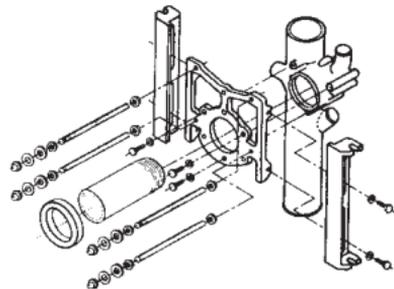
- 1—4" PVC Sch. 80 NIPPLE with TEST CAP
- 1—BOWL GASKET
- 2—5/16" x 12" RODS
- 2—5/16" HEX NUTS
- 2—5/16" FLAT WASHERS
- 2—5/16" CAP NUTS

PART NO. EZS 24
Trim Package, Wall-Hung Back-Outlet Assembly
(Note: To be used with PART NO. EZS 22 Support Frame Assembly)



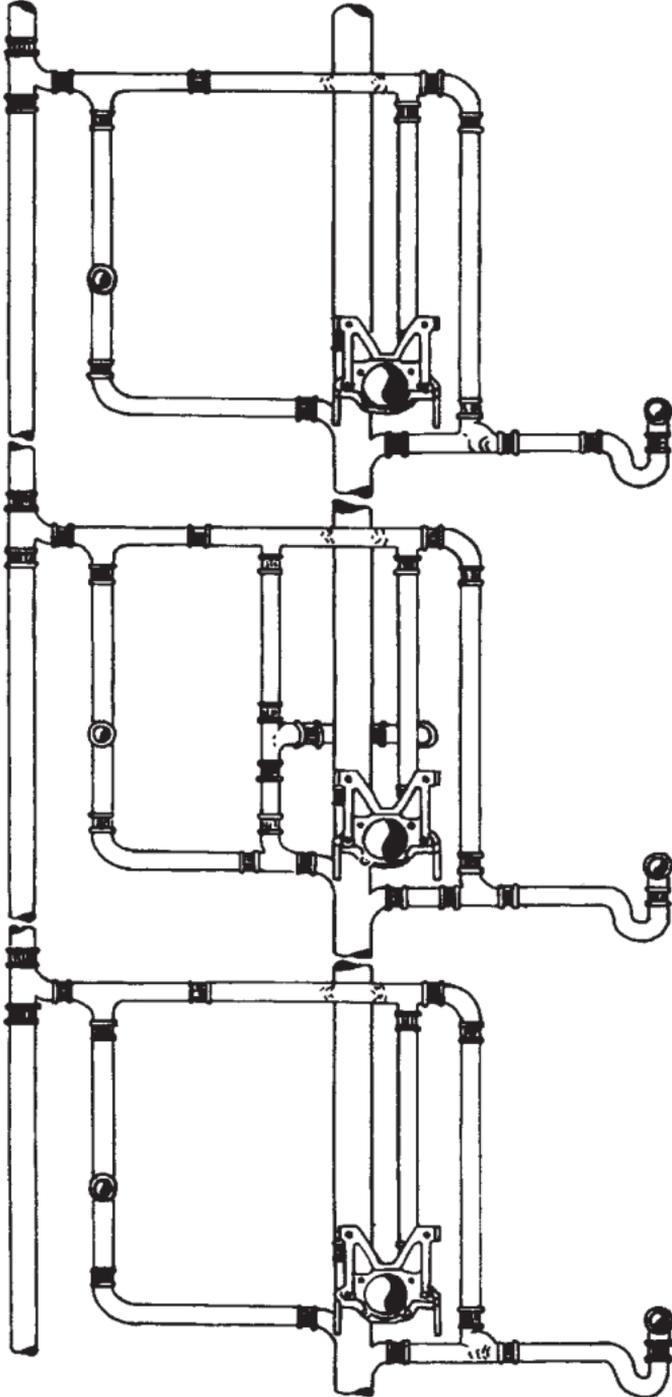
- 1—4" PVC Sch. 80 NIPPLE with TEST CAP
- 1—BOWL GASKET
- 4—5/8" x 12" RODS
- 4—5/8" CHROME CAP NUTS
- 8—5/8" JAM NUTS
- 4—5/8" FLAT WASHERS
- 4—5/8" FIBER WASHERS
- 3—3/8" x 1 1/2" BOLTS FOR FACEPLATE
- 3—3/8" FLAT WASHERS
- 4—5/8" STAR WASHERS

Exploded View of Support Assembly Hardware



EZS 22 and EZS 24 Assemblies Illustrated

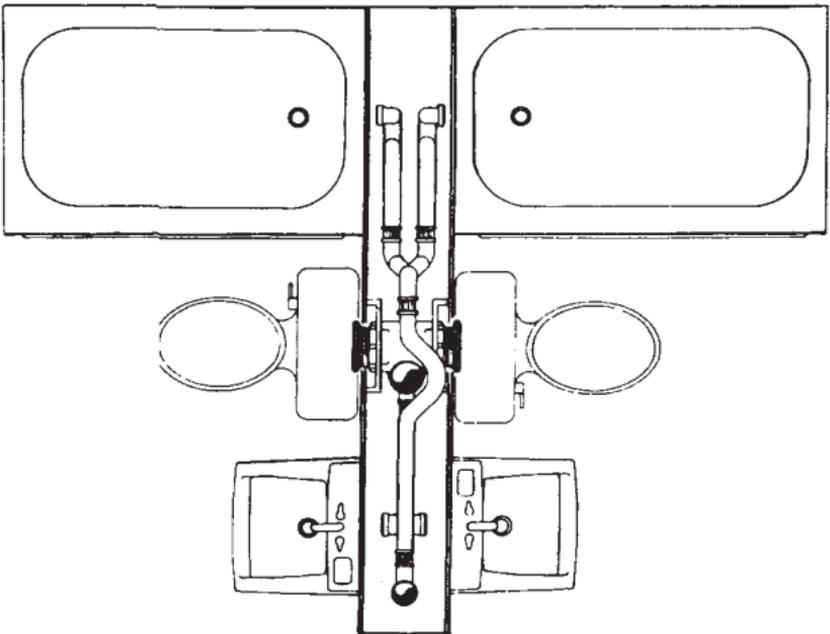
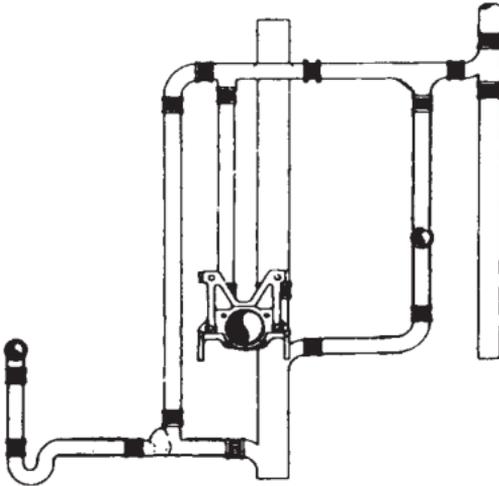
TYPICAL HIGH-RISE BUILDING INSTALLATION



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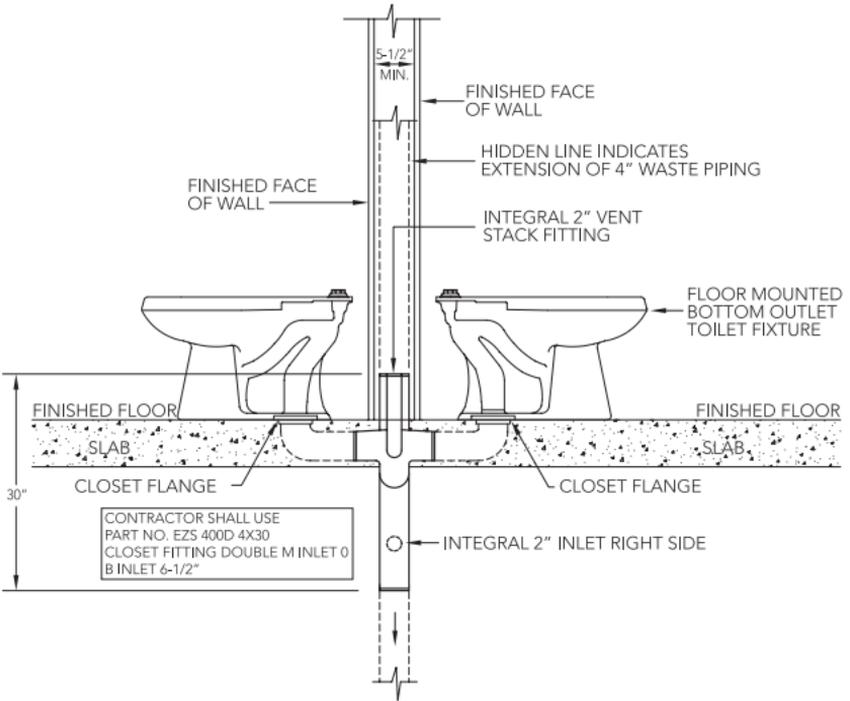
TYPICAL BACK-TO-BACK INSTALLATION

Typical installation shows back-to-back water closets and back-outlet tubs. This system can be changed to use floor-mounted back-outlet water closets and bottom-outlet tubs.



PART NO. EZS 400D

**Charlotte Pipe Starter Fitting
4x30 Closet Fitting Double - M Inlet 0; B Inlet 6 1/2"**

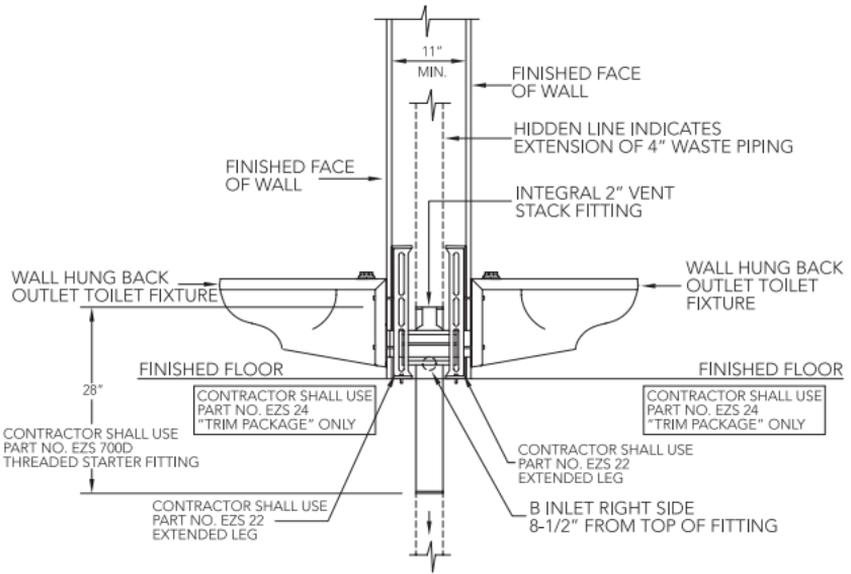


DOUBLE FITTING IN-SLAB - LEFT SIDE ELEVATION

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PART NO. EZS 700D

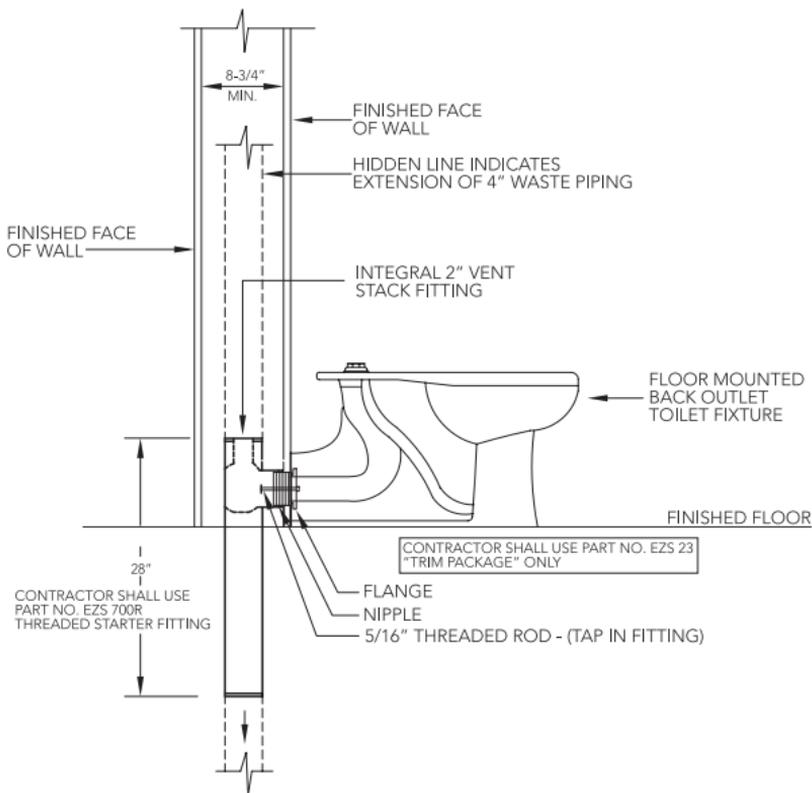
**Charlotte Pipe Starter Fitting
4x28 Threaded Double - A Inlet 0; B Inlet 8 1/2"
with EZS 22 Support Frame and EZS 24 Trim Package**



DOUBLE FITTING - LEFT SIDE ELEVATION

PART NO. EZS 700R

**Charlotte Pipe Starter Fitting
4x28 Threaded Right Hand - A Inlet 0; B Inlet 0
with EZS 23 Trim Package**

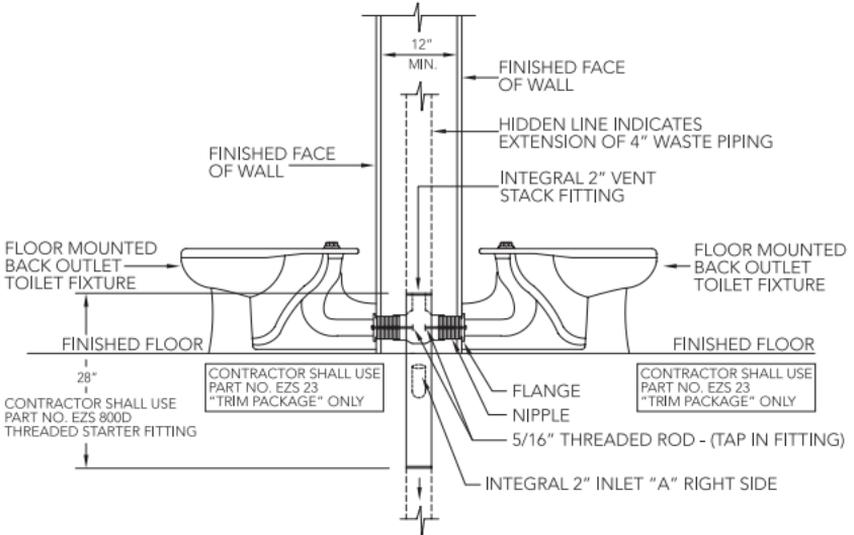


DETAIL DRAWINGS

RIGHT HAND FITTING - LEFT SIDE ELEVATION

PART NO. EZS 800D

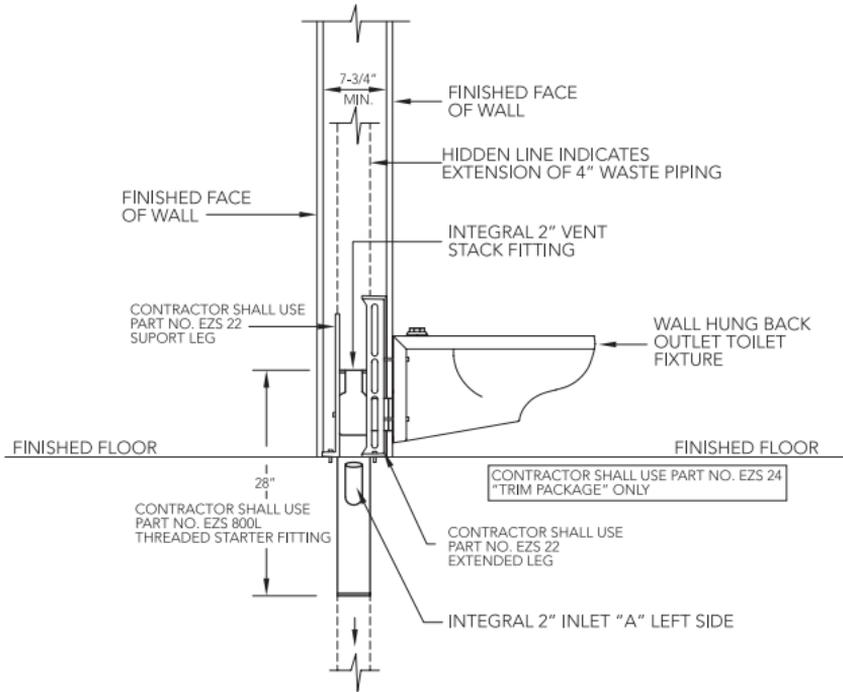
**Charlotte Pipe Starter Fitting
4x28 Threaded Double - A Inlet 16; B Inlet 0
with EZS 23 Trim Package**



DOUBLE FITTING - LEFT SIDE ELEVATION

PART NO. EZS 800L

**Charlotte Pipe Starter Fitting
4x28 Threaded Left Hand - A Inlet 16; B Inlet 0
with EZS 22 Support Frame and EZS 24 Trim Package**

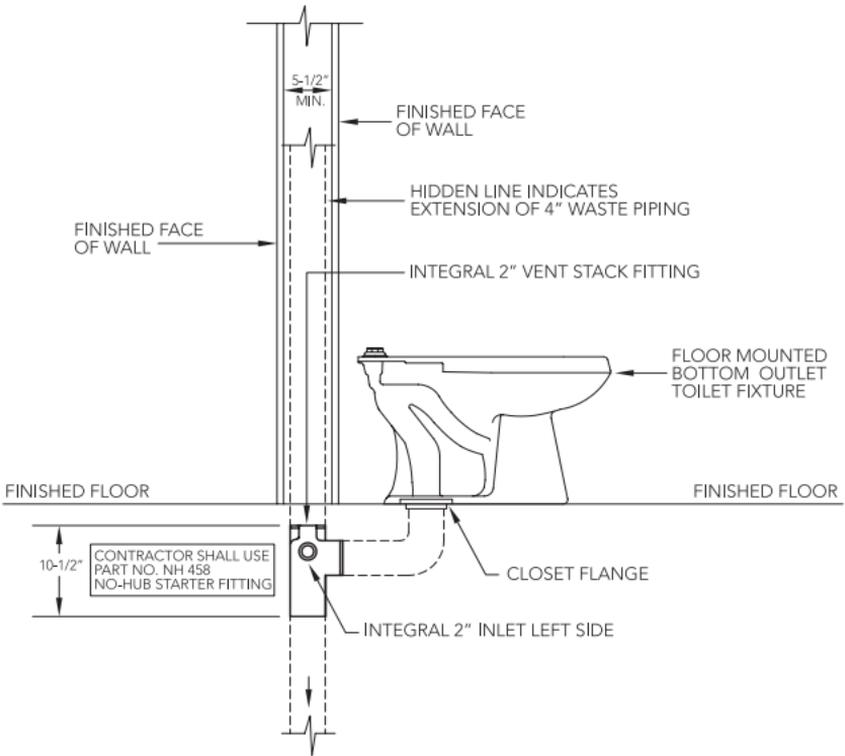


DETAIL DRAWINGS

LEFT HAND FITTING - LEFT SIDE ELEVATION

PART NO. NH 458

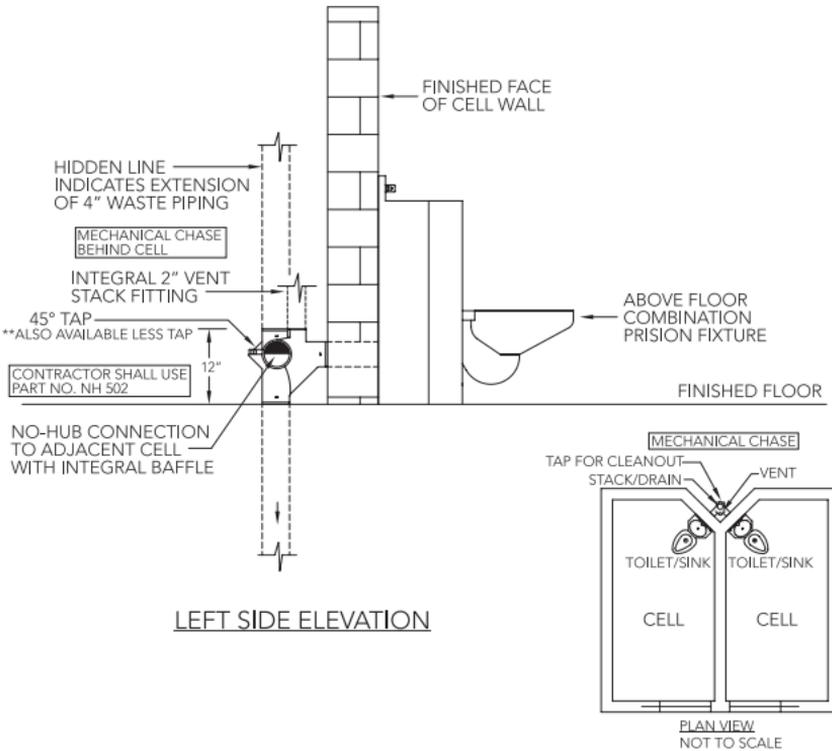
**Charlotte Pipe Starter Fitting
4x4x2x2x4 Vented Closet Tee, Left Hand,
with 2" Top Vent and 2" Side Inlet**



SINGLE FITTING LEFT HAND UNDER-SLAB - LEFT SIDE ELEVATION

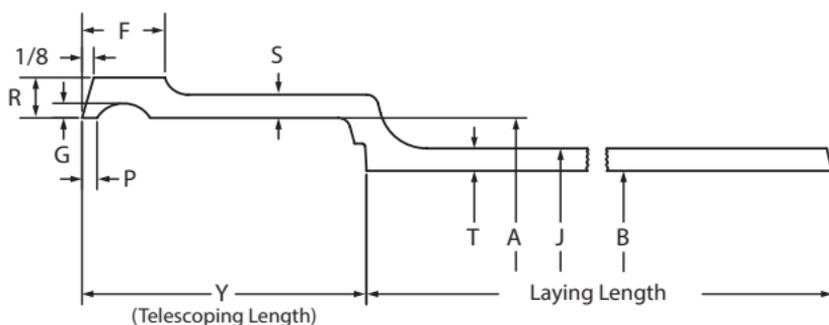
PART NO. NH 502

**Charlotte Pipe Starter Fitting
4" No-Hub with 2" Top Vent and 2" 45° Tap Service
for Two Cells at 45° Angle**



**DETAIL
DRAWINGS**

Service



PIPE - SERVICE*

| Size | Telescoping Length | Hub I.D. | Barrel | | Nominal Thickness |
|------|--------------------|----------|--------|--------|-------------------|
| | Y | A | J | I.D. B | T |
| 2" | 2.50 | 2.94 | 2.30 | 1.96 | 0.17 |
| 3" | 2.75 | 3.94 | 3.30 | 2.96 | 0.17 |
| 4" | 3.00 | 4.94 | 4.30 | 3.94 | 0.18 |
| 5" | 3.00 | 5.94 | 5.30 | 4.94 | 0.18 |
| 6" | 3.00 | 6.94 | 6.30 | 5.94 | 0.18 |
| 8" | 3.50 | 9.25 | 8.38 | 7.94 | 0.23 |
| 10" | 3.50 | 11.38 | 10.50 | 9.94 | 0.28 |
| 12" | 4.24 | 13.50 | 12.50 | 11.94 | 0.28 |
| 15" | 4.25 | 16.95 | 15.88 | 15.16 | 0.36 |

CHARLOTTE® SPEED-PAK FIVE FOOT PIPE BUNDLES

| SERVICE | | | | |
|------------|------|--------|--------|--------|
| | SIZE | PIECES | WEIGHT | HEIGHT |
| Single Hub | 2" | 100 | 2380 | 20" |
| | 3" | 60 | 1910 | 22" |
| | 4" | 46 | 1904 | 25" |
| | 5" | 33 | 1750 | 31" |
| | 6" | 23 | 1591 | 31" |
| | 8" | 11 | 1111 | 30" |
| | 10" | 8 | 1207 | 27" |
| | 12" | 6 | 1184 | 31" |
| Double Hub | 15" | 2 | 605 | 34" |
| | 2" | 100 | 2240 | 23" |
| | 3" | 60 | 2016 | 24" |
| | 4" | 46 | 1956 | 25" |
| | 5" | 33 | 1841 | 35" |
| | 6" | 23 | 1697 | 35" |

* For additional dimensional information please see the Cast Iron Technical and Installation Manual.

CHARLOTTE® .SPEED-PAK
30" SINGLE HUB PIPE BUNDLES

| SERVICE | | | | |
|----------------------|----------|--------|--------|--------|
| 30" Single Hub | SIZE | PIECES | WEIGHT | HEIGHT |
| | 8 x 30" | 11 | 702 | 24" |
| | 10 x 30" | 8 | 733 | 24" |
| | 12 x 30" | 6 | 643 | 28" |
| | 15 x 30" | 2 | 333 | 34" |

TEN FOOT PIPE BUNDLES

| SERVICE | | | | |
|---------------|----------|--------|--------|--------|
| Single Hub | SIZE | PIECES | WEIGHT | HEIGHT |
| | 2 x 10' | 54 | 2165 | 12" |
| | 3 x 10' | 36 | 2141 | 15" |
| | 4 x 10' | 27 | 2028 | 18" |
| | 5 x 10' | 24 | 2409 | 20" |
| | 6 x 10' | 18 | 2211 | 23" |
| | 8 x 10' | 8 | 1444 | 22" |
| | 10 x 10' | 6 | 1657 | 27" |
| | 12 x 10' | 6 | 2075 | 30" |
| | 15 x 10' | 2 | 1050 | 23" |

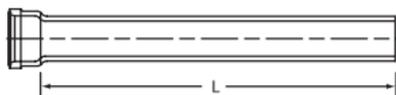
PART NO. SV 1

Pipe, 5' Lengths, Single Hub

| Size | L | Weight |
|----------|----|--------|
| 2" x 5' | 5' | 23.8 |
| 3" x 5' | 5' | 31.8 |
| 4" x 5' | 5' | 41.0 |
| 5" x 5' | 5' | 52.5 |
| 6" x 5' | 5' | 69.2 |
| 8" x 5' | 5' | 101.0 |
| 10" x 5' | 5' | 150.9 |
| 12" x 5' | 5' | 197.3 |
| 15" x 5' | 5' | 302.7 |

Weights are approximate and are for shipping purposes only.

PART NO. SV 1A



Pipe, 30" Lengths, Single Hub

| Size | L | Weight |
|-----------|-----|--------|
| 8" x 30" | 30" | 63.8 |
| 10" x 30" | 30" | 91.7 |
| 12" x 30" | 30" | 107.1 |
| 15" x 30" | 30" | 166.3 |

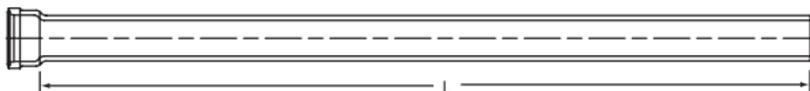
PART NO. SV 2



Pipe, 5' Lengths, Double Hub

| Size | L | Weight |
|---------|-----------|--------|
| 2" x 5' | 4' 9 1/2" | 22.4 |
| 3" x 5' | 4' 9 1/4" | 33.6 |
| 4" x 5' | 4' 9" | 42.5 |
| 5" x 5' | 4' 9" | 55.8 |
| 6" x 5' | 4' 9" | 73.8 |

PART NO. SV 3



Pipe, 10' Lengths, Single Hub

| Size | L | Weight |
|-----------|-----|--------|
| 2" x 10' | 10' | 40.1 |
| 3" x 10' | 10' | 59.5 |
| 4" x 10' | 10' | 75.1 |
| 5" x 10' | 10' | 100.4 |
| 6" x 10' | 10' | 122.8 |
| 8" x 10' | 10' | 180.5 |
| 10" x 10' | 10' | 276.1 |
| 12" x 10' | 10' | 345.9 |
| 15" x 10' | 10' | 525.1 |

PART NO. SV 4

Pipe, 30" Lengths, Double Hub

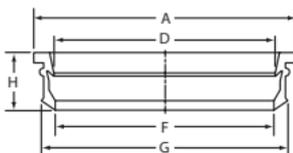
| Size | L | Weight |
|----------|---------|--------|
| 2" x 30" | 25" | 13.8 |
| 3" x 30" | 24 1/2" | 17.6 |
| 4" x 30" | 24" | 27.1 |



PART NO. SV 900

Service Weight Charlotte Seal Gasket

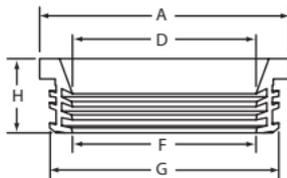
| Size | A | D | F | G | H | Weight |
|------|---------|---------|---------|----------|---------|--------|
| 2 | 3 1/2 | 2 3/16 | 2 1/8 | 3 1/8 | 1 31/32 | 0.3 |
| 3 | 4 1/2 | 3 3/16 | 3 1/8 | 4 1/8 | 2 1/16 | 0.4 |
| 4 | 5 1/2 | 4 3/16 | 4 1/8 | 5 1/4 | 2 9/32 | 0.5 |
| 5 | 6 1/2 | 5 3/16 | 5 1/8 | 6 1/4 | 2 9/32 | 0.6 |
| 6 | 7 1/2 | 6 3/16 | 6 1/8 | 7 1/4 | 2 1/4 | 0.8 |
| 8 | 9 3/4 | 8 13/32 | 8 3/16 | 9 9/32 | 3 | 1.5 |
| 10 | 12 7/16 | 10 1/2 | 10 5/16 | 11 11/16 | 2 3/4 | 2.4 |



PART NO. SV 950

Service Weight Quik-Tite Gasket

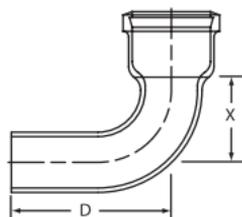
| Size | A | D | F | G | H | Weight |
|------|--------|--------|--------|---------|--------|--------|
| 2 | 3 1/2 | 2 1/16 | 2 | 3 1/4 | 1 3/32 | 0.3 |
| 3 | 4 7/8 | 3 1/16 | 3 1/16 | 4 3/8 | 1 3/4 | 0.4 |
| 4 | 5 3/4 | 4 | 4 | 5 3/16 | 1 3/4 | 0.5 |
| 5 | 6 3/4 | 5 | 5 | 6 | 2 1/16 | 0.8 |
| 6 | 8 | 6 5/16 | 6 5/16 | 7 11/32 | 2 5/32 | 0.8 |
| 8 | 10 | 8 3/16 | 8 3/16 | 8 1/2 | 2 1/2 | 1.5 |
| 10 | 12 1/4 | 10 1/4 | 10 | 11 1/2 | 2 1/2 | 2.3 |
| 12 | 14 3/8 | 12 1/4 | 12 | 14 | 2 7/8 | 3.0 |



PART NO. SV 5

**Quarter Bend
 (90° Ell)**

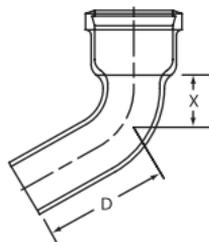
| Size | D | X | Weight |
|------|--------------------------------|-------------------------------|--------|
| 2 | 6 | 3 ¹ / ₄ | 5.1 |
| 3 | 7 | 4 | 7.7 |
| 4 | 8 | 4 ¹ / ₂ | 13.1 |
| 5 | 8 ¹ / ₂ | 5 | 16.2 |
| 6 | 9 | 5 ¹ / ₂ | 21.7 |
| 8 | 11 ¹ / ₂ | 6 ⁵ / ₈ | 36.5 |
| 10 | 12 ¹ / ₂ | 7 ⁵ / ₈ | 57.3 |
| 12 | 15 | 8 ³ / ₄ | 82.8 |
| 15 | (HX) | (HX) | (HX) |



PART NO. SV 7

**Sixth Bend
 (60° Ell)**

| Size | D | X | Weight |
|------|--------------------------------|---------------------------------|--------|
| 2 | 4 ³ / ₄ | 2 | 4.3 |
| 3 | 5 ¹ / ₂ | 2 ¹ / ₂ | 6.9 |
| 4 | 6 ⁵ / ₁₆ | 2 ¹³ / ₁₆ | 10.8 |
| 5 | 6 ⁵ / ₈ | 3 ¹ / ₈ | 14.0 |
| 6 | 6 ⁷ / ₈ | 3 ³ / ₈ | 16.4 |
| 8 | 9 | 4 ¹ / ₈ | 32.5 |

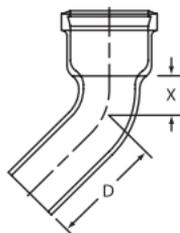


(HX) Please see Extra Heavy dimensions

PART NO. SV 8

**Eighth Bend
(45° Ell)**

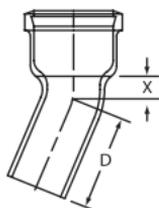
| Size | D | X | Weight |
|------|---------------------------------|---------------------------------|--------|
| 2 | 4 ¹ / ₄ | 1 ¹ / ₂ | 4.2 |
| 3 | 4 ¹⁵ / ₁₆ | 1 ¹⁵ / ₁₆ | 6.5 |
| 4 | 5 ¹¹ / ₁₆ | 2 ³ / ₁₆ | 10.7 |
| 5 | 5 ⁷ / ₈ | 2 ³ / ₈ | 13.1 |
| 6 | 6 ¹ / ₁₆ | 2 ⁹ / ₁₆ | 16.6 |
| 8 | 8 | 3 ¹ / ₈ | 32.3 |
| 10 | 8 ³ / ₈ | 3 ¹ / ₂ | 44.1 |
| 12 | 10 ⁵ / ₁₆ | 4 ¹ / ₁₆ | 65.4 |
| 15 | (XH) | (XH) | (XH) |



PART NO. SV 9

**Sixteenth Bend
(22 1/2° Ell)**

| Size | D | X | Weight |
|------|---------------------------------|---------------------------------|--------|
| 2 | 3 ⁵ / ₈ | 7 ⁷ / ₈ | 3.4 |
| 3 | 4 ³ / ₁₆ | 1 ³ / ₁₆ | 6.0 |
| 4 | 4 ¹³ / ₁₆ | 1 ⁵ / ₁₆ | 8.8 |
| 5 | 4 ⁷ / ₈ | 1 ³ / ₈ | 11.6 |
| 6 | 5 | 1 ¹ / ₂ | 13.8 |
| 8 | 6 ¹¹ / ₁₆ | 1 ¹³ / ₁₆ | 24.6 |
| 10 | 6 ⁷ / ₈ | 2 | 37.1 |
| 12 | 8 ⁵ / ₈ | 2 ³ / ₈ | 57.7 |
| 15 | (XH) | (XH) | (XH) |

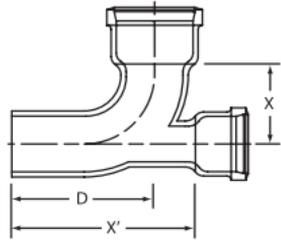


(HX) Please see Extra Heavy dimensions

PART NO. SV 10

Quarter Bend with Low Heel Inlet

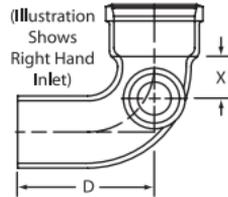
| Size | D | X | X' | Weight |
|-------|---|----|-----|--------|
| 3 x 2 | 7 | 4 | 9 | 9.8 |
| 4 x 2 | 8 | 4½ | 10½ | 13.0 |



PART NO. SV 12

Quarter Bend with Side Opening

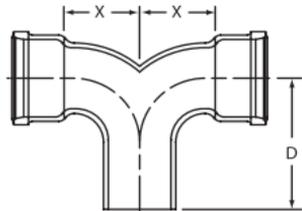
| Size | D | X | Weight |
|-------|---|----|--------|
| 4w2LH | 8 | 3½ | 16.2 |
| 4w2RH | 8 | 3½ | 16.5 |



PART NO. SV 15

Double Quarter Bend

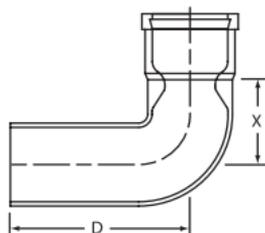
| Size | D | X | Weight |
|------|---|----|--------|
| 4 | 8 | 4½ | 15.0 |



PART NO. SV 18

Reducing Quarter Bend

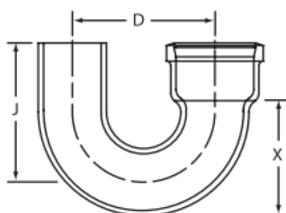
| Size | D | X | Weight |
|-------|-------------------------------|-------------------------------|--------|
| 3 x 2 | 7 | 3 ³ / ₈ | 7.0 |
| 4 x 2 | 7 ¹ / ₂ | 4 ¹ / ₂ | 11.7 |
| 4 x 3 | 8 ¹ / ₈ | 4 ³ / ₈ | 9.1 |



PART NO. SV 23

Single Hub Return Bend

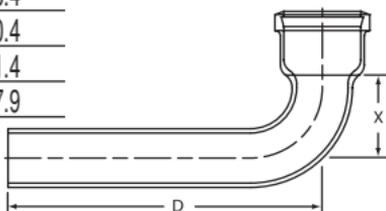
| Size | D | X | J | Weight |
|------|-------------------------------|---------------------------------|--------------------------------|--------|
| 3 | 5 ⁵ / ₈ | 5 | 5 ⁷ / ₈ | 9.4 |
| 4 | 7 ¹ / ₂ | 6 ¹¹ / ₃₂ | 7 ³ / ₁₆ | 16.4 |



PART NO. SV 25

Long Quarter Bend

| Size | D | X | Weight |
|--------|----|-------------------------------|--------|
| 2 x 12 | 12 | 3 ¹ / ₄ | 6.9 |
| 3 x 12 | 12 | 4 | 10.3 |
| 4 x 12 | 12 | 4 ¹ / ₂ | 15.4 |
| 4 x 16 | 16 | 4 ¹ / ₂ | 20.4 |
| 4 x 18 | 18 | 4 ¹ / ₂ | 21.4 |
| 4 x 24 | 24 | 4 ¹ / ₂ | 27.9 |



PART NO. SV 26

Long Eighth Bend

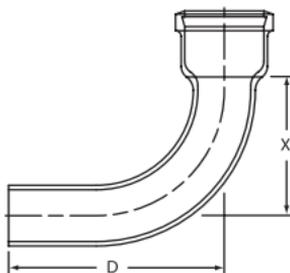
| Size | D | X | Weight |
|--------|----|---------------------------------|--------|
| 2 x 12 | 12 | 1½ | 6.2 |
| 3 x 12 | 12 | 1 ¹⁵ / ₁₆ | 9.9 |
| 3 x 18 | 18 | 1 ¹⁵ / ₁₆ | 12.4 |
| 4 x 12 | 12 | 2 ³ / ₁₆ | 15.6 |
| 4 x 18 | 18 | 2 ³ / ₁₆ | 20.6 |
| 6 x 18 | 18 | 2 ⁹ / ₁₆ | 31.0 |



PART NO. SV 29

Short Sweep Bend

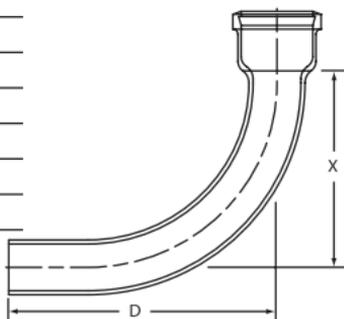
| Size | D | X | Weight |
|------|-----|--------------------------------|--------|
| 2 | 8 | 5¼ | 6.2 |
| 3 | 9 | 6 | 9.4 |
| 4 | 10 | 6½ | 16.6 |
| 5 | 10½ | 7 | 20.7 |
| 6 | 11 | 7½ | 26.6 |
| 8 | 13½ | 8 ⁵ / ₈ | 37.4 |
| 10 | 14½ | 9 ⁵ / ₈ | 71.5 |
| 12 | 17 | 10 ³ / ₄ | 100.6 |



PART NO. SV 30

Long Sweep Bend

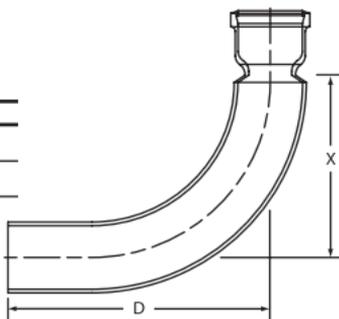
| Size | D | X | Weight |
|------|--------------------------------|--------------------------------|--------|
| 2 | 11 | 8 ¹ / ₄ | 7.6 |
| 3 | 12 | 9 | 12.2 |
| 4 | 13 | 9 ¹ / ₂ | 21.2 |
| 5 | 13 ¹ / ₂ | 10 | 25.3 |
| 6 | 14 | 10 ¹ / ₂ | 29.9 |
| 8 | 16 ¹ / ₂ | 11 ⁵ / ₈ | 52.9 |
| 10 | 17 ¹ / ₂ | 12 ⁵ / ₈ | 82.6 |
| 12 | 20 | 13 ³ / ₄ | 103.5 |
| 15 | (XH) | (XH) | (XH) |



PART NO. SV 31

Reducing Long Sweep Bend

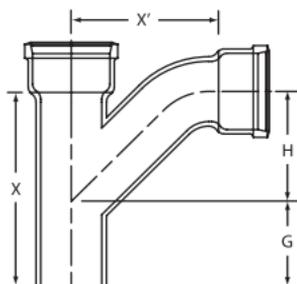
| Size | D | X | Weight |
|-------|----|-------------------------------|--------|
| 3 x 2 | 12 | 9 | 12.0 |
| 4 x 3 | 13 | 9 ¹ / ₂ | 17.6 |



PART NO. SV 32

**Combination Wye & Eighth Bend
(Charlotte Pattern)**

| Size | G | H | X | X' | Weight |
|------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------|
| 4 | 5 ⁷ / ₁₆ | 4 ³ / ₈ | 11 ³ / ₈ | 6 ¹ / ₂ | 20.3 |

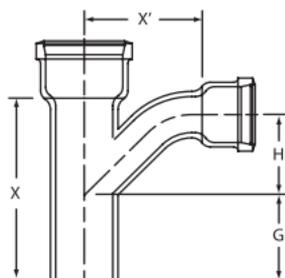


(XH) Please see Extra Heavy dimensions

PART NO. SV 33

**Combination Wye & Eighth Bend
 (Long Turn Pattern)**

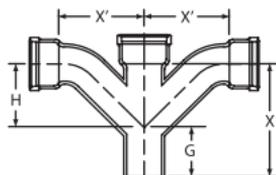
| Size | G | H | X | X' | Weight |
|-------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--------|
| 2 x 2 | 4 | 3 ³ / ₈ | 8 | 4 ⁷ / ₈ | 8.6 |
| 3 x 2 | 4 ³ / ₁₆ | 4 | 9 | 5 ³ / ₄ | 11.1 |
| 3 x 3 | 5 | 5 ¹ / ₁₆ | 10 ¹ / ₂ | 7 | 14.8 |
| 4 x 2 | 3 ¹¹ / ₁₆ | 4 ¹ / ₂ | 9 | 6 ¹ / ₄ | 15.5 |
| 4 x 3 | 4 ¹ / ₂ | 5 ⁹ / ₁₆ | 10 ¹ / ₂ | 7 ¹ / ₂ | 19.2 |
| 4 x 4 | 4 ¹ / ₂ | 7 ¹ / ₂ | 12 | 9 | 24.5 |
| 5 x 2 | 3 ³ / ₈ | 5 | 9 | 6 ³ / ₄ | 14.6 |
| 5 x 3 | 4 | 6 ¹ / ₁₆ | 10 ¹ / ₂ | 8 | 21.3 |
| 5 x 4 | 4 ¹ / ₄ | 7 ⁵ / ₁₆ | 12 | 9 ¹ / ₂ | 25.9 |
| 5 x 5 | 5 ¹ / ₂ | 8 ⁵ / ₈ | 13 ¹ / ₂ | 11 | 33.6 |
| 6 x 2 | 2 ¹¹ / ₁₆ | 5 ¹ / ₂ | 9 | 7 ¹ / ₄ | 19.6 |
| 6 x 3 | 3 ¹ / ₈ | 6 ⁹ / ₁₆ | 10 ¹ / ₄ | 8 ¹ / ₂ | 24.7 |
| 6 x 4 | 4 ¹ / ₄ | 7 ¹³ / ₁₆ | 12 | 10 | 31.7 |
| 6 x 5 | 5 ¹ / ₁₆ | 9 ¹ / ₈ | 13 ¹ / ₂ | 11 ¹ / ₂ | 34.3 |
| 6 x 6 | 5 ³ / ₄ | 10 ⁵ / ₁₆ | 15 | 12 ⁷ / ₈ | 44.2 |
| 8 x 2 | 3 ¹ / ₈ | 6 ¹ / ₂ | 10 ¹ / ₂ | 8 ¹ / ₄ | 34.0 |
| 8 x 4 | 4 ³ / ₄ | 8 ¹³ / ₁₆ | 13 ¹ / ₂ | 11 | 40.1 |
| 8 x 5 | 5 ¹ / ₂ | 10 ¹ / ₈ | 15 | 12 ¹ / ₂ | 49.6 |
| 8 x 6 | 6 ⁵ / ₁₆ | 11 ⁵ / ₁₆ | 16 ¹ / ₂ | 13 ⁷ / ₈ | 55.7 |
| 8 x 8 | 7 ¹ / ₁₆ | 13 ⁷ / ₈ | 19 ¹ / ₂ | 17 | 85.6 |



PART NO. SV 35

**Double Combination Wye & Eighth Bend
 (Charlotte Pattern)**

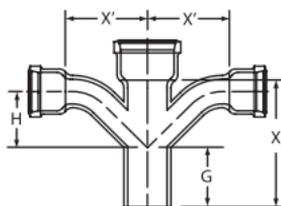
| Size | G | H | X | X' | Weight |
|------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------|
| 4 | 5 ⁷ / ₁₆ | 4 ³ / ₈ | 11 ³ / ₈ | 6 ¹ / ₂ | 26.0 |



PART NO. SV 35F

**Double Combination Wye & Eighth Bend
(Long Turn Pattern)**

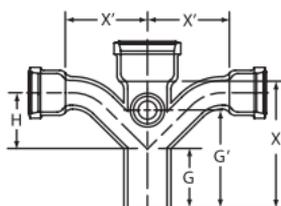
| Size | G | H | X | X' | Weight |
|-------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--------|
| 2 x 2 | 4 | 3 ³ / ₈ | 8 | 4 ⁷ / ₈ | 12.0 |
| 3 x 2 | 4 ⁹ / ₁₆ | 4 | 9 | 5 ³ / ₄ | 14.6 |
| 3 x 3 | 5 | 5 ¹ / ₁₆ | 10 ¹ / ₂ | 7 | 22.0 |
| 4 x 2 | 3 ¹¹ / ₁₆ | 4 ¹ / ₂ | 9 | 6 ¹ / ₄ | 19.7 |
| 4 x 3 | 4 ¹ / ₂ | 5 ⁹ / ₁₆ | 10 ¹ / ₂ | 7 ¹ / ₂ | 26.5 |
| 4 x 4 | 5 ¹ / ₄ | 6 ¹³ / ₁₆ | 12 | 9 | 36.2 |
| 5 x 4 | 4 ¹ / ₄ | 7 ⁵ / ₁₆ | 12 | 9 ¹ / ₂ | 30.9 |
| 6 x 4 | 4 ¹ / ₄ | 7 ¹³ / ₁₆ | 12 | 10 | 41.0 |
| 6 x 6 | 5 ³ / ₄ | 10 ⁵ / ₁₆ | 15 | 12 ⁷ / ₈ | 69.6 |



PART NO. SV 35F

**Double Combination Wye & Eighth Bend
with 2" Cup Hub Inlet**

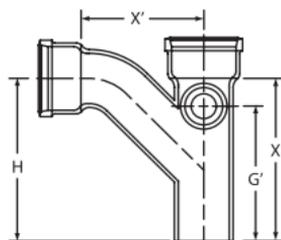
| Size | G | G' | H | X | X' | Weight |
|------|-------------------------------|----|---------------------------------|----|----|--------|
| 4 | 4 ¹ / ₄ | 10 | 6 ¹³ / ₁₆ | 12 | 9 | 41.7 |



PART NO. SV 39A

**Combination Wye & Eighth Bend
with Side Inlet**

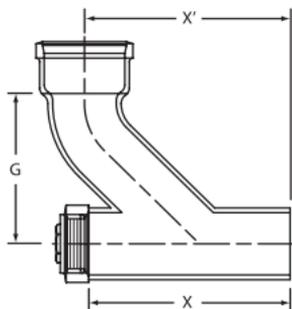
| Size | G' | H | X | X' | Weight |
|--------|----|---------------------------------|----|----|--------|
| 4w/2RH | 10 | 12 ¹ / ₁₆ | 12 | 9 | 27.3 |
| 4w/2LH | 10 | 12 ¹ / ₁₆ | 12 | 9 | 28.3 |



PART NO. SV 41

**Combination Wye & Eighth Bend
with Cleanout on Main**

| Size | IPS Tap | G | X | X' | Weight |
|------|-------------------------------|---|---------------------------------|--------------------------------|--------|
| 4 | 3 ¹ / ₂ | 9 | 12 ³ / ₁₆ | 12 ¹ / ₄ | 18.9 |

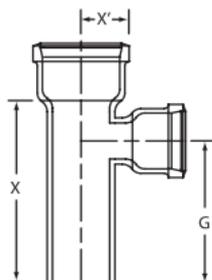


S
E
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V
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C
E

PART NO. SV 42

Straight Tee

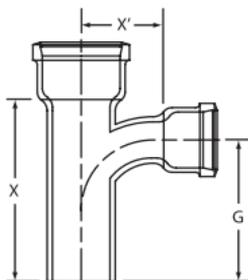
| Size | G | X | X' | Weight |
|-------|-------------------------------|--------------------------------|-------------------------------|--------|
| 2 x 2 | 6 ¹ / ₄ | 8 | 1 ³ / ₄ | 7.0 |
| 3 x 2 | 7 | 9 | 2 ¹ / ₂ | 9.0 |
| 3 x 3 | 7 ¹ / ₂ | 10 | 2 ¹ / ₂ | 12.0 |
| 4 x 2 | 7 | 9 | 3 | 12.7 |
| 4 x 3 | 7 ¹ / ₂ | 10 | 3 | 14.0 |
| 4 x 4 | 8 | 11 | 3 | 16.6 |
| 5 x 5 | 8 ¹ / ₂ | 12 | 3 ¹ / ₂ | 19.0 |
| 6 x 4 | 8 | 11 | 4 | 19.9 |
| 6 x 6 | 9 | 13 | 4 | 24.0 |
| 8 x 4 | 9 ⁵ / ₈ | 12 ⁷ / ₈ | 5 ¹ / ₄ | 37.0 |



PART NO. SV 43

Sanitary Tee

| Size | G | X | X' | Weight |
|---------|--------------------------------|--------------------------------|--------------------------------|--------|
| 2 x 2 | 6 ¹ / ₄ | 8 | 2 ³ / ₄ | 7.9 |
| 3 x 2 | 7 | 9 | 4 | 10.9 |
| 3 x 3 | 7 ¹ / ₂ | 10 | 4 | 11.9 |
| 4 x 2 | 7 | 9 | 4 ¹ / ₂ | 14.2 |
| 4 x 3 | 7 ¹ / ₂ | 10 | 4 ¹ / ₂ | 16.9 |
| 4 x 4 | 8 | 11 | 4 ¹ / ₂ | 18.6 |
| 5 x 4 | 8 | 11 | 5 | 17.9 |
| 5 x 5 | 8 ¹ / ₂ | 12 | 5 | 22.3 |
| 6 x 2 | 7 | 9 | 5 ¹ / ₂ | 15.0 |
| 6 x 3 | 7 ¹ / ₂ | 10 | 5 ¹ / ₂ | 21.4 |
| 6 x 4 | 8 | 11 | 5 ¹ / ₂ | 22.8 |
| 6 x 6 | 9 | 13 | 5 ¹ / ₂ | 29.8 |
| 8 x 4 | 9 ³ / ₄ | 13 | 6 ¹ / ₂ | 35.7 |
| 8 x 6 | 10 ³ / ₄ | 15 | 6 ¹ / ₂ | 43.0 |
| 8 x 8 | 11 ³ / ₄ | 17 | 6 ⁵ / ₈ | 50.8 |
| 10 x 4 | 9 ³ / ₄ | 13 | 7 ¹ / ₂ | 52.0 |
| 10 x 6 | 10 ³ / ₄ | 15 | 7 ¹ / ₂ | 57.7 |
| 10 x 8 | 11 ³ / ₄ | 17 | 7 ⁵ / ₈ | 68.0 |
| 10 x 10 | 12 ³ / ₄ | 19 | 7 ⁵ / ₈ | 75.9 |
| 12 x 6 | 12 | 16 ¹ / ₂ | 8 ¹ / ₂ | 79.0 |
| 12 x 8 | 13 | 18 ¹ / ₂ | 8 ⁵ / ₈ | 104.0 |
| 12 x 10 | 14 | 20 ¹ / ₂ | 8 ⁵ / ₈ | 123.0 |
| 12 x 12 | 15 | 22 ¹ / ₂ | 8 ³ / ₄ | 113.0 |
| 15 x 6 | 12 | 16 ¹ / ₂ | 10 | 145.0 |
| 15 x 8 | 13 | 18 ¹ / ₂ | 10 ¹ / ₈ | 173.0 |
| 15 x 12 | 15 | 22 ¹ / ₂ | 10 ¹ / ₄ | 204.0 |
| 15 x 15 | (XH) | (XH) | (XH) | (XH) |

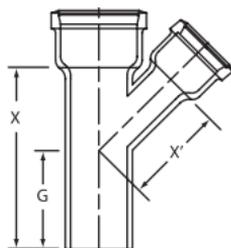


(XH) Please see Extra Heavy dimensions

PART NO. SV 44

Wye

| Size | G | X | X' | Weight |
|---------|---------------------------------|--------------------------------|----------------------------------|--------|
| 2 x 2 | 4 | 8 | 4 | 8.3 |
| 3 x 2 | 4 ³ / ₁₆ | 9 | 5 | 10.9 |
| 3 x 3 | 5 | 10 ¹ / ₂ | 5 ¹ / ₂ | 12.2 |
| 4 x 2 | 3 ⁵ / ₈ | 9 | 5 ³ / ₄ | 14.4 |
| 4 x 3 | 4 ⁷ / ₁₆ | 10 ¹ / ₂ | 6 ¹ / ₄ | 16.8 |
| 4 x 4 | 5 ¹ / ₄ | 12 | 6 ³ / ₄ | 20.3 |
| 5 x 2 | 3 ¹ / ₈ | 9 | 6 ¹ / ₂ | 15.3 |
| 5 x 3 | 3 ⁷ / ₈ | 10 ¹ / ₂ | 7 | 19.8 |
| 5 x 4 | 4 ¹¹ / ₁₆ | 12 | 7 ¹ / ₂ | 23.0 |
| 5 x 5 | 5 ¹ / ₂ | 13 ¹ / ₂ | 8 | 27.0 |
| 6 x 2 | 2 ⁹ / ₁₆ | 9 | 7 ¹ / ₄ | 19.7 |
| 6 x 3 | 3 ³ / ₈ | 10 ¹ / ₂ | 7 ³ / ₄ | 23.7 |
| 6 x 4 | 4 ³ / ₁₆ | 12 | 8 ¹ / ₄ | 26.7 |
| 6 x 5 | 4 ¹⁵ / ₁₆ | 13 ¹ / ₂ | 8 ³ / ₄ | 29.5 |
| 6 x 6 | 5 ³ / ₄ | 15 | 9 ¹ / ₄ | 36.5 |
| 8 x 2 | 3 ¹ / ₈ | 10 ¹ / ₂ | 8 ¹ / ₂ | 31.0 |
| 8 x 3 | 3 ¹⁵ / ₁₆ | 12 | 9 | 33.2 |
| 8 x 4 | 4 ³ / ₄ | 13 ¹ / ₂ | 9 ¹ / ₂ | 38.3 |
| 8 x 5 | 5 ¹ / ₂ | 15 | 10 | 41.2 |
| 8 x 6 | 6 ⁵ / ₁₆ | 16 ¹ / ₂ | 10 ¹ / ₂ | 45.4 |
| 8 x 8 | 7 ¹ / ₁₆ | 19 ¹ / ₂ | 11 ¹³ / ₁₆ | 58.4 |
| 10 x 3 | 2 ³ / ₄ | 12 | 10 ³ / ₄ | 54.0 |
| 10 x 4 | 3 ⁹ / ₁₆ | 13 ¹ / ₂ | 11 ¹ / ₈ | 55.4 |
| 10 x 5 | 4 ⁵ / ₁₆ | 15 | 11 ⁵ / ₈ | 60.6 |
| 10 x 6 | 5 ¹ / ₈ | 16 ¹ / ₂ | 12 ¹ / ₈ | 64.1 |
| 10 x 8 | 6 ¹ / ₂ | 19 ¹ / ₂ | 13 ⁷ / ₁₆ | 86.9 |
| 10 x 10 | 8 | 22 ¹ / ₂ | 14 ¹ / ₂ | 111.1 |
| 12 x 4 | 4 ¹ / ₈ | 15 | 12 ⁷ / ₁₆ | 69.7 |
| 12 x 5 | 4 ⁷ / ₈ | 16 ¹ / ₂ | 12 ¹⁵ / ₁₆ | 78.0 |
| 12 x 6 | 5 ¹ / ₁₆ | 18 | 13 ⁷ / ₁₆ | 87.7 |
| 12 x 8 | 7 ¹ / ₁₆ | 21 | 14 ³ / ₄ | 100.6 |
| 12 x 10 | 8 ⁹ / ₁₆ | 24 | 15 ³ / ₁₆ | 131.0 |
| 12 x 12 | 10 ¹ / ₈ | 27 | 16 ⁷ / ₈ | 175.2 |
| 15 x 4 | 6 ³ / ₈ | 15 | 15 | 138.5 |
| 15 x 6 | 4 | 18 | 15 ³ / ₄ | 153.6 |
| 15 x 8 | 5 ³ / ₈ | 21 | 17 ¹ / ₁₆ | 187.1 |
| 15 x 10 | 6 ⁷ / ₈ | 24 | 18 ¹ / ₈ | 225.0 |
| 15 x 12 | 8 ⁷ / ₁₆ | 27 | 19 ³ / ₁₆ | 260.0 |
| 15 x 15 | (XH) | (XH) | (XH) | (XH) |

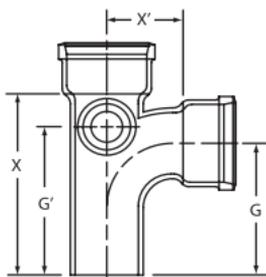


(XH) Please see Extra Heavy dimensions

PART NO. SV 50

**Sanitary Tee
with Left Hand Side Tap**

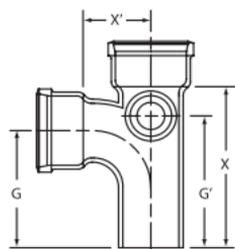
| Size | G | G' | X | X' | Weight |
|------|---|----|----|-------|--------|
| 4w/2 | 8 | 9 | 11 | 4 1/2 | 16.3 |



PART NO. SV 50A

**Sanitary Tee
with Right Hand Side Tap**

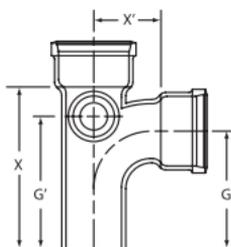
| Size | G | G' | X | X' | Weight |
|------|---|----|----|-------|--------|
| 4w/2 | 8 | 9 | 11 | 4 1/2 | 16.5 |



PART NO. SV 50B

**Sanitary Tee
with Right and Left Hand Side Taps**

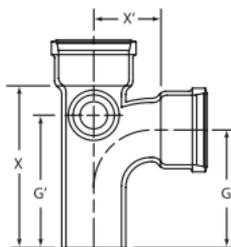
| Size | G | G' | X | X' | Weight |
|------|---|----|----|-------|--------|
| 4w/2 | 8 | 9 | 11 | 4 1/2 | 16.3 |



PART NO. SV 56

Sanitary Tee with Left Hand Side Inlet

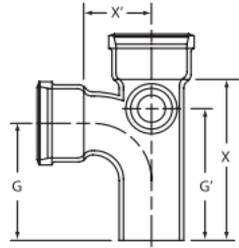
| Size | G | G' | X | X' | Weight |
|------|---|----|----|-------|--------|
| 4w/2 | 8 | 9 | 11 | 4 1/2 | 20.2 |



PART NO. SV 56B

**Sanitary Tee
with Right Hand Side Inlet**

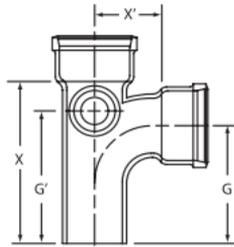
| Size | G | G' | X | X' | Weight |
|------|---|----|----|-------|--------|
| 4w/2 | 8 | 9 | 11 | 4 1/2 | 20.0 |



PART NO. SV 56C

**Sanitary Tee
with Right and Left Hand Side Inlets**

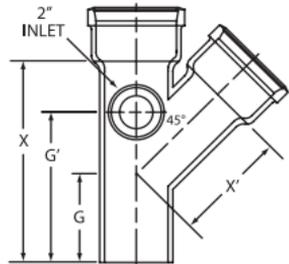
| Size | G | G' | X | X' | Weight |
|------|---|----|----|-------|--------|
| 4w/2 | 8 | 9 | 11 | 4 1/2 | 23.1 |



PART NO. SV 57

Wye with Left Hand Side Inlet

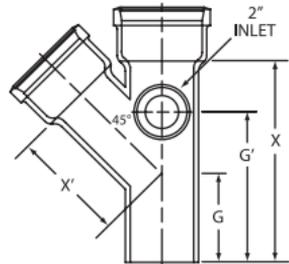
| Size | G | G' | X | X' | Weight |
|------|-------|----|----|-------|--------|
| 4w/2 | 5 1/4 | 10 | 12 | 6 3/4 | 23.8 |



PART NO. SV 57A

Wye with Right Hand Side Inlet

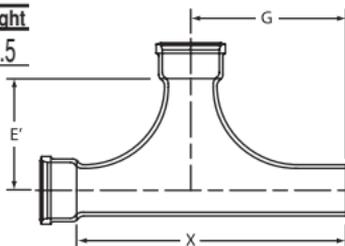
| Size | G | G' | X | X' | Weight |
|------|-------|----|----|-------|--------|
| 4w/2 | 5 1/4 | 10 | 12 | 6 3/4 | 23.8 |



PART NO. SV 71A

Single Two-Way Cleanout

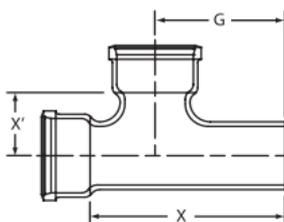
| Size | X | E' | G | Weight |
|------|---------------------------------|-------------------------------|--------------------------------|--------|
| 4 | 22 ⁷ / ₁₆ | 9 ³ / ₈ | 12 ³ / ₄ | 33.5 |



PART NO. SV 71B

Short Special Two-Way Cleanout

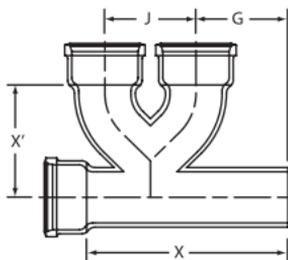
| Size | G | X | X' | Weight |
|------|---|----|----|--------|
| 4 | 8 | 12 | 4 | 16.0 |



PART NO. SV 72

Double Two-Way Cleanout

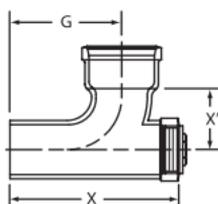
| Size | G | J | X | X' | Weight |
|-----------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|--------|
| 4 | 6 ¹ / ₂ | 6 ⁷ / ₁₆ | 13 ⁵ / ₈ | 7 ¹ / ₂ | 31.2 |
| 6 x 4 x 4 | 6 ¹ / ₂ | 6 ⁷ / ₁₆ | 13 ⁵ / ₈ | 8 ¹ / ₄ | 39.1 |



PART NO. SV 76

Sanitary Tee with Cleanout on Main

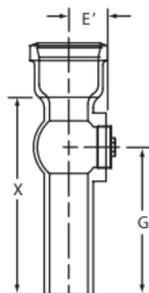
| Size | IPS Tap | G | X | X' | Weight |
|------|-------------------------------|---|--------------------------------|-------------------------------|--------|
| 4 | 3 ¹ / ₂ | 8 | 12 ¹ / ₈ | 4 ¹ / ₂ | 16.7 |



PART NO. SV 79

Washington Test Tee[‡]

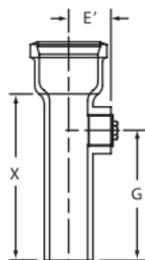
| Size | IPS | | E' | G | X | Weight |
|------|-----|--|-------------------------------|-------------------------------|--------------------------------|--------|
| | Tap | | | | | |
| 2 | 2 | | 1 ³ / ₄ | 7 | 9 | 7.3 |
| 3 | 4 | | 2 ⁷ / ₈ | 7 ¹ / ₈ | 10 ³ / ₄ | 13.1 |
| 4 | 4 | | 3 ¹ / ₄ | 7 ¹ / ₄ | 10 ⁵ / ₈ | 16.8 |
| 5 | 5 | | 3 ⁵ / ₈ | 7 | 11 | 22.5 |
| 6 | 6 | | 4 | 8 ³ / ₄ | 13 | 26.9 |
| 8 | 8 | | 5 | 11 | 16 ³ / ₈ | 41.6 |
| 10 | 10 | | 7 ¹ / ₂ | 11 | 17 ⁵ / ₈ | 68.7 |



PART NO. SV 80

Cleanout Tee with Brass Plug

| Size | IPS | | E' | G | X | Weight |
|------|-------------------------------|--|-------------------------------|-------------------------------|--------------------------------|--------|
| | Tap | | | | | |
| 2 | 1 ¹ / ₂ | | 2 | 6 ¹ / ₄ | 8 | 6.2 |
| 3 | 2 | | 2 ¹ / ₂ | 7 | 9 | 9.3 |
| 4 | 3 | | 3 | 8 | 11 | 14.6 |
| 5 | 4 | | 3 ¹ / ₂ | 8 ¹ / ₂ | 12 | 18.7 |
| 6 | 4 | | 4 ¹ / ₄ | 9 | 13 | 25.3 |
| 12 | 8 | | 8 | 13 | 18 ¹ / ₂ | 92.2 |



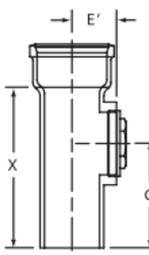
PART NO. SV 81

Miami Test Tee, Less Plug

and PART NO. SV 81S

Miami Test Tee with Southern
Raised-Head Brass Plug Installed

| Size | IPS | | E' | G | X | Weight |
|------|-----|--|--------------------------------|-------------------------------|--------------------------------|--------|
| | Tap | | | | | |
| 2 | 2 | | 2 ¹ / ₃₂ | 6 ¹ / ₂ | 9 | 7.0 |
| 3 | 3 | | 2 ¹ / ₂ | 6 ⁵ / ₈ | 9 ⁵ / ₈ | 10.0 |
| 4 | 4 | | 3 | 7 ¹ / ₄ | 11 | 15.5 |
| 6 | 6 | | 4 | 9 | 13 ¹ / ₄ | 22.8 |

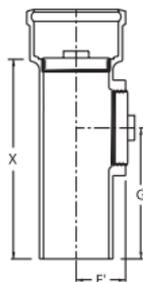


[‡] This fitting can be ordered without or with a Southern Raised Head Brass Plug installed (2" through 8" available with plug).

PART NO. SV 82

Test Tee with Internal Tap

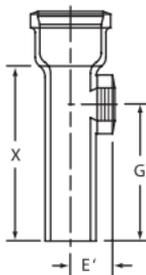
| Size | E' | G | X | Weight |
|------|---------------------------------|-------------------------------|----|--------|
| 4 | 2 ¹⁵ / ₁₆ | 7 ⁷ / ₈ | 12 | 15.9 |



PART NO. SV 83

Straight Tapped Tee

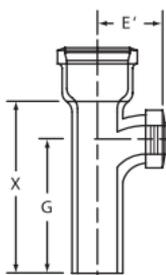
| Size | E' | G | X | Weight |
|-----------------------------------|-------------------------------|-------------------------------|----|--------|
| 2 x 1 ¹ / ₂ | 2 | 6 ¹ / ₄ | 8 | 5.5 |
| 2 x 2 | 2 | 6 ¹ / ₄ | 8 | 6.0 |
| 3 x 1 ¹ / ₂ | 2 ¹ / ₂ | 7 | 9 | 7.4 |
| 3 x 2 | 2 ¹ / ₂ | 7 | 9 | 8.6 |
| 4 x 2 | 3 | 7 | 9 | 12.3 |
| 4 x 3 | 4 | 8 | 11 | 14.0 |
| 4 x 4 | 3 | 7 ¹ / ₄ | 11 | 15.0 |
| 5 x 2 | 3 ¹ / ₂ | 7 | 9 | 13.5 |
| 5 x 4 | 3 ¹ / ₂ | 8 ¹ / ₂ | 12 | 17.9 |
| 6 x 4 | 4 ¹ / ₄ | 9 | 13 | 24.4 |



PART NO. SV 84

Sanitary Tapped Tee

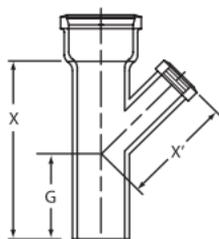
| Size | E' | G | X | Weight |
|-----------------------------------|---------------------------------|-------------------------------|----|--------|
| 2 x 1 ¹ / ₂ | 2 ¹³ / ₁₆ | 6 ¹ / ₄ | 8 | 6.0 |
| 2 x 2 | 3 ¹ / ₁₆ | 6 ¹ / ₄ | 8 | 5.8 |
| 3 x 1 ¹ / ₂ | 3 ⁵ / ₁₆ | 7 | 9 | 8.0 |
| 3 x 2 | 3 ⁹ / ₁₆ | 7 | 9 | 8.1 |
| 4 x 1 ¹ / ₂ | 3 ¹³ / ₁₆ | 7 | 9 | 10.3 |
| 4 x 2 | 4 ¹ / ₁₆ | 7 | 9 | 11.7 |
| 4 x 3 | 4 ¹ / ₁₆ | 8 | 11 | 13.6 |



PART NO. SV 85

Tapped Wye

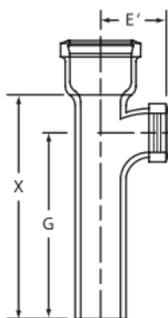
| Size | G | X | X' | Weight |
|-----------|-------|--------|-------|--------|
| 3 x 2 | 5 | 10 1/2 | 6 5/8 | 10.3 |
| 4 x 1 1/2 | 4 1/2 | 9 | 6 1/2 | 11.0 |
| 4 x 2 | 4 1/4 | 9 | 6 | 12.7 |



PART NO. SV 89

Long Sanitary Tapped Tee

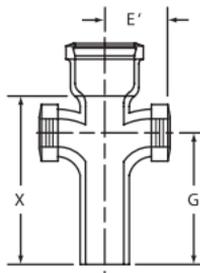
| Size | E' | G | X | Weight |
|------------|--------|----|----|--------|
| 2 x 2 x 18 | 3 1/16 | 16 | 18 | 8.8 |



PART NO. SV 91

Sanitary Tapped Cross

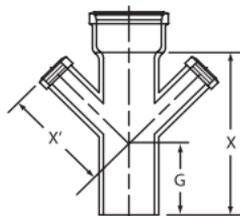
| Size | E' | G | X | Weight |
|-----------|---------|-------|---|--------|
| 2 x 1 1/2 | 2 13/16 | 6 1/4 | 8 | 11.3 |
| 2 x 2 | 3 1/16 | 6 1/4 | 8 | 6.7 |
| 3 x 2 | 3 9/16 | 7 | 9 | 9.0 |
| 4 x 2 | 4 1/16 | 7 | 9 | 11.6 |



PART NO. SV 92

Tapped Double Wye

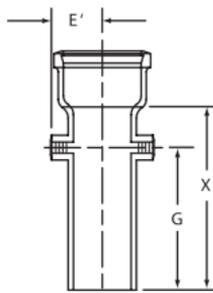
| Size | G | X | X' | Weight |
|-------|-------|----|-------|--------|
| 4 x 2 | 5 3/4 | 12 | 7 7/8 | 16.9 |



PART NO. SV 93

Tapped Cross

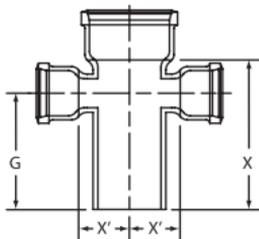
| Size | E' | G | X | Weight |
|-------|-------|---|---|--------|
| 3 x 2 | 2 1/2 | 7 | 9 | 9.4 |
| 4 x 2 | 3 | 7 | 9 | 13.1 |



PART NO. SV 108

Straight Cross

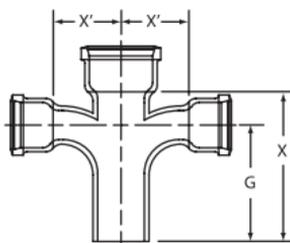
| Size | G | X | X' | Weight |
|-------|---|----|----|--------|
| 4 x 2 | 7 | 9 | 3 | 16.0 |
| 4 | 8 | 11 | 3 | 17.0 |



PART NO. SV 109

Sanitary Cross

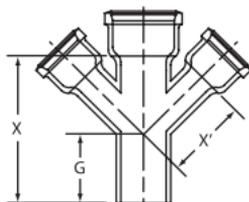
| Size | G | X | X' | Weight |
|-------|--------|----|-------|--------|
| 2 | 6 1/4 | 8 | 2 3/4 | 10.0 |
| 3 x 2 | 7 | 9 | 4 | 12.5 |
| 3 | 7 1/2 | 10 | 4 | 15.6 |
| 4 x 2 | 7 | 9 | 4 1/2 | 16.0 |
| 4 x 3 | 7 1/2 | 10 | 4 1/2 | 20.0 |
| 4 | 8 | 11 | 4 1/2 | 22.9 |
| 5 x 4 | 8 | 11 | 5 | 23.2 |
| 6 x 4 | 8 | 11 | 5 1/2 | 29.0 |
| 6 | 9 | 13 | 5 1/2 | 34.9 |
| 8 | 11 3/4 | 17 | 6 5/8 | 105.0 |



PART NO. SV 110

Double Wye

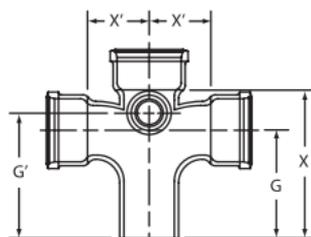
| Size | G | X | X' | Weight |
|--------|--------------------------------|--------------------------------|----------------------------------|--------|
| 2 | 4 | 8 | 4 | 9.7 |
| 3 x 2 | 4 ³ / ₁₆ | 9 | 5 | 12.8 |
| 3 | 5 | 10 ¹ / ₂ | 5 ¹ / ₂ | 17.5 |
| 4 x 2 | 3 ⁵ / ₈ | 9 | 5 ³ / ₄ | 16.2 |
| 4 x 3 | 4 ⁷ / ₁₆ | 10 ¹ / ₂ | 6 ¹ / ₄ | 19.8 |
| 4 | 5 ¹ / ₄ | 12 | 6 ³ / ₄ | 27.2 |
| 5 | 5 ¹ / ₂ | 13 ¹ / ₂ | 8 | 27.0 |
| 6 x 3 | 3 ³ / ₈ | 10 ¹ / ₂ | 7 ³ / ₄ | 24.6 |
| 6 x 4 | 4 ³ / ₁₆ | 12 | 8 ¹ / ₄ | 31.8 |
| 6 | 5 ³ / ₄ | 15 | 9 ¹ / ₄ | 44.0 |
| 8 x 4 | 4 ³ / ₄ | 13 ¹ / ₂ | 9 ¹ / ₂ | 44.5 |
| 8 x 6 | 6 ⁵ / ₁₆ | 16 ¹ / ₂ | 10 ¹ / ₂ | 57.3 |
| 8 | 7 ¹ / ₁₆ | 19 ¹ / ₂ | 11 ¹³ / ₁₆ | 90.0 |
| 10 x 6 | 5 ¹ / ₈ | 16 ¹ / ₂ | 12 ¹ / ₈ | 73.7 |
| 10 x 8 | 6 ¹ / ₂ | 19 ¹ / ₂ | 13 ⁷ / ₁₆ | 99.0 |
| 10 | 8 | 22 ¹ / ₂ | 14 ¹ / ₂ | 172.0 |
| 12 x 6 | 5 ¹ / ₁₆ | 18 | 13 ⁷ / ₁₆ | 112.0 |
| 12 x 8 | 7 ¹ / ₁₆ | 21 | 14 ³ / ₄ | 135.0 |
| 12 | 10 ¹ / ₈ | 27 | 16 ⁷ / ₈ | 216.1 |
| 15 | (XH) | (XH) | (XH) | (XH) |



PART NO. SV 114

Sanitary Cross with 2" Side Inlet

| Size | G | G' | X | X' | Weight |
|------|---|----|----|-------------------------------|--------|
| 4 | 8 | 9 | 11 | 4 ¹ / ₂ | 27.0 |

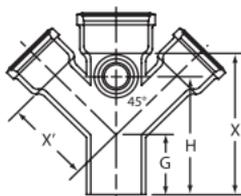


(XH) Please see Extra Heavy dimensions

PART NO. SV 115

Double Wye with 2" Side Opening

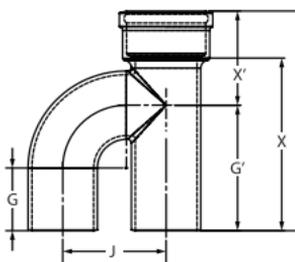
| Size | G | H | X | X' | Weight |
|-------|-------|----|----|-------|--------|
| 4 x 4 | 5 1/4 | 10 | 12 | 6 3/4 | 31.8 |



PART NO. SV 134

Vent Branch

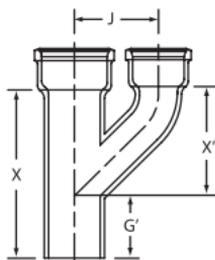
| Size | X | X' | J | G | G' | Weight |
|------|----|----|-------|---|----|--------|
| 4 | 11 | 6 | 6 1/2 | 4 | 8 | 19.6 |



PART NO. SV 135

"H" Branch

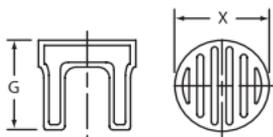
| Size | X | X' | J | G | Weight |
|-------|----------|---------|-------|-------|--------|
| 4 x 3 | 12 3/16 | 7 9/16 | 6 | 4 1/2 | 17.0 |
| 4 | 13 15/16 | 8 11/16 | 6 1/2 | 5 1/4 | 19.6 |



PART NO. SV 137

Bar Grate with Legs

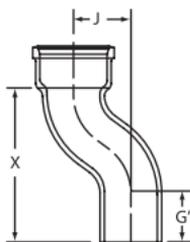
| Size | G | X | Weight |
|------|---|-------|--------|
| 4 | 3 | 4 3/4 | 2.0 |



PART NO. SV 141

45° Offset

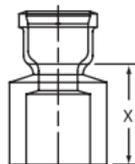
| Size/Offset | X | G' | J | Weight |
|-------------|----|----|---|--------|
| 4 x 4 | 11 | 4 | 4 | 11.6 |
| 4 x 6 | 13 | 4 | 6 | 15.0 |
| 4 x 8 | 15 | 4 | 8 | 15.6 |



PART NO. SV 143

Reducer

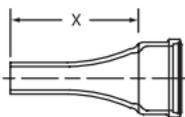
| Size | X | Weight |
|---------|-------------------------------|--------|
| 3 x 2 | 4 ³ / ₄ | 4.6 |
| 4 x 2 | 5 | 6.0 |
| 4 x 3 | 5 | 7.0 |
| 5 x 2 | 5 | 6.6 |
| 5 x 3 | 5 | 6.8 |
| 5 x 4 | 5 | 9.0 |
| 6 x 2 | 5 | 8.2 |
| 6 x 3 | 5 | 9.9 |
| 6 x 4 | 5 | 10.4 |
| 6 x 5 | 5 | 10.9 |
| 8 x 3 | 6 | 14.3 |
| 8 x 4 | 6 | 16.6 |
| 8 x 5 | 6 | 16.4 |
| 8 x 6 | 6 | 16.8 |
| 10 x 4 | 6 | 20.0 |
| 10 x 5 | 6 | 23.9 |
| 10 x 6 | 6 | 24.0 |
| 10 x 8 | 6 | 26.5 |
| 12 x 4 | 6 ¹ / ₂ | 32.2 |
| 12 x 6 | 6 ¹ / ₂ | 34.4 |
| 12 x 8 | 6 ¹ / ₂ | 37.2 |
| 12 x 10 | 6 ¹ / ₂ | 38.4 |
| 15 x 6 | 6 ¹ / ₂ | 52.3 |
| 15 x 8 | 6 ¹ / ₂ | 55.0 |
| 15 x 10 | 6 ¹ / ₂ | 55.7 |
| 15 x 12 | 6 ¹ / ₂ | 64.9 |



PART NO. SV 144

Reducer Increaser

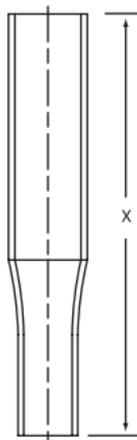
| Size | X | Weight |
|--------|----|--------|
| 2 x 4 | 9 | 9.4 |
| 3 x 4 | 9 | 8.8 |
| 4 x 5 | 9 | 11.3 |
| 4 x 6 | 9 | 15.2 |
| 4 x 8 | 12 | 24.5 |
| 5 x 6 | 9 | 12.8 |
| 6 x 8 | 12 | 24.0 |
| 8 x 10 | 12 | 44.0 |



PART NO. SV 147

Long Plain Increaser

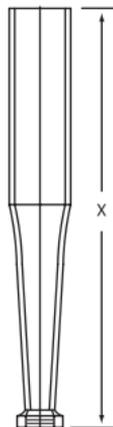
| Size | X | Weight |
|------------|----|--------|
| 3 x 4 x 24 | 24 | 13.6 |
| 4 x 5 x 30 | 30 | 27.4 |



PART NO. SV 148

Long Tapped Increaser

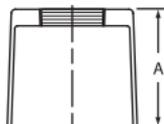
| Size | X | Weight |
|------------|----|--------|
| 2 x 4 x 30 | 30 | 22.8 |



PART NO. SV 151

Tapped Spigot

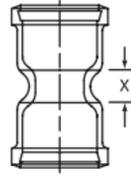
| Size | A | Weight |
|-------|-------|--------|
| 4 x 2 | 4 1/4 | 4.7 |



PART NO. SV 153

Double Hub Fitting

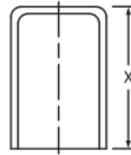
| Size | X | Weight |
|------|------|--------|
| 2 | 1¼ | 4.2 |
| 3 | 1¼ | 7.0 |
| 4 | 1½ | 9.1 |
| 6 | 1½ | 13.1 |
| 8 | 1½ | 22.1 |
| 10 | 1½ | 36.3 |
| 12 | 1½ | 46.3 |
| 15 | (XH) | (XH) |



PART NO. SV 155

Pipe Plug

| Size | X | Weight |
|------|------|--------|
| 2 | 3½ | 1.3 |
| 3 | 3¾ | 2.5 |
| 4 | 4 | 4.1 |
| 5 | 4 | 6.0 |
| 6 | 4 | 8.0 |
| 8 | 4½ | 12.4 |
| 10 | 4½ | 17.7 |
| 12 | 5¼ | 23.3 |
| 15 | (XH) | (XH) |



PART NO. SV 159

Vent Cap with Set Screw

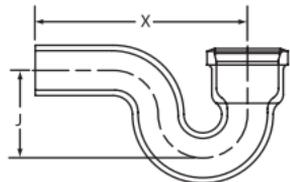
| Size | Weight |
|------|--------|
| 4 | 2.6 |



PART NO. SV 169

"P" Trap

| Size | J | X | Weight |
|------|-----|-----|--------|
| 2 | 4 | 9½ | 7.1 |
| 3 | 5½ | 12 | 13.1 |
| 4 | 6½ | 14 | 23.2 |
| 5 | 7½ | 15½ | 30.4 |
| 6 | 8½ | 17 | 42.0 |
| 8 | 10½ | 22¼ | 86.2 |

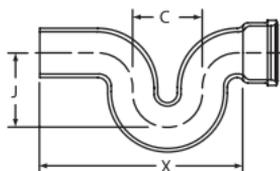


(XH) Please see Extra Heavy dimensions

PART NO. SV 170

Running Trap

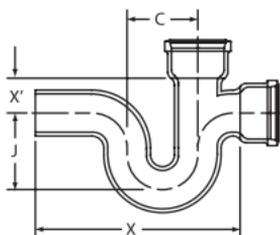
| Size | X | C | J | Weight |
|------|-----|---|----|--------|
| 4 | 17½ | 6 | 6½ | 19.3 |
| 6 | 21½ | 8 | 8½ | 48.0 |



PART NO. SV 174

Running Trap with Single Hub Vent

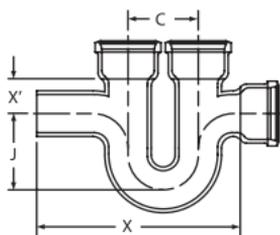
| Size | Vent Size | C | J | X | X' | Weight |
|------|-----------|----|----|--------------------------------|----|--------|
| 3 | 3 | 5 | 5½ | 15 | 2½ | 15.3 |
| 4 | 4 | 6 | 6½ | 17½ | 3 | 28.3 |
| 5 | 4 | 7 | 7½ | 19½ | 3½ | 39.7 |
| 6 | 4 | 8 | 8½ | 21½ | 4 | 45.9 |
| 8 | 4 | 10 | 11 | 27 ⁵ / ₈ | 5¼ | 95.9 |
| 8 | 6 | 10 | 11 | 27 ⁵ / ₈ | 5¼ | 110.0 |



PART NO. SV 175

Running Trap with Double Hub Vent

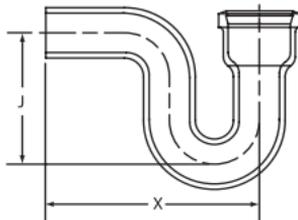
| Size | Vent Size | C | J | X | X' | Weight |
|------|-----------|-----|-----|--------------------------------|----|--------|
| 3 | 3 | 5 | 5½ | 15 | 2½ | 23.0 |
| 4 | 4 | 6 | 6½ | 17½ | 3 | 36.3 |
| 5 | 4 | 7 | 7½ | 19½ | 3½ | 42.5 |
| 6 | 4 | 8 | 8½ | 21½ | 4 | 57.3 |
| 6 | 6 | 8 | 8½ | 21½ | 4 | 61.5 |
| 8 | 4 | 10 | 11 | 27 ⁵ / ₈ | 5¼ | 98.8 |
| 8 | 6 | 10 | 11 | 27 ⁵ / ₈ | 5¼ | 99.7 |
| 10 | 8 | 12 | 13 | 31 ⁵ / ₈ | 6¼ | 187.0 |
| 12 | 10 | 15 | 15 | 38¾ | 7¼ | 287.6 |
| 15 | 12 | 18½ | 18½ | 45 | 9 | 460.0 |



PART NO. SV 180

Deep Seal "P" Trap

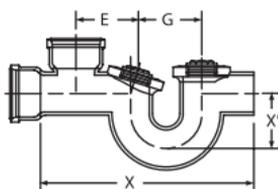
| Size | X | J | Weight |
|------|----|----|--------|
| 2 | 9½ | 6 | 8.1 |
| 3 | 12 | 7 | 14.3 |
| 4 | 14 | 8 | 29.0 |
| 6 | 17 | 9½ | 40.4 |



PART NO. SV 184^(T)

Improved Running Trap with Double Cleanout and Tee Branch

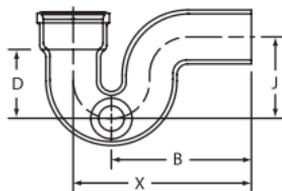
| Vent Size | Size | E | G | X | X' | Weight |
|-----------|------|----|----|-----|----|--------|
| 4 | 3 | 5¼ | 6¼ | 20½ | 5½ | 34.3 |
| 4 | 4 | 5¾ | 6¼ | 20½ | 5½ | 33.7 |



PART NO. SV 188^(T)

"P" Trap with Cleanout Right Side

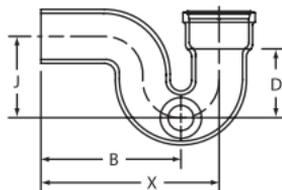
| Size | X | J | B | D | Weight |
|------|----|----|----|----|--------|
| 4 | 14 | 6½ | 11 | 5½ | 20.0 |



PART NO. SV 188A^(T)

"P" Trap with Cleanout Left Side

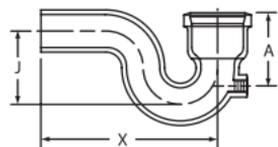
| Size | X | J | B | D | Weight |
|------|----|----|----|----|--------|
| 4 | 14 | 6½ | 11 | 5½ | 20.0 |



PART NO. SV 198

"P" Trap with ½" Heel Tap

| Size | X | J | A | Weight |
|------|----|----|----|--------|
| 2 | 9½ | 4 | 4 | 6.8 |
| 3 | 12 | 5½ | 4¾ | 13.0 |
| 4 | 14 | 6½ | 4⅝ | 23.1 |

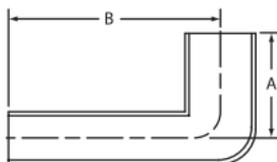


^(T) Note: 3½" IPS tap

PART NO. SV 200

Closet Bend, Plain - Less Collar

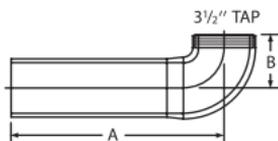
| Size | A | B | Weight |
|-------|----|----|--------|
| 3 x 4 | 6 | 12 | 11.3 |
| 3 x 4 | 6 | 15 | 12.0 |
| 3 x 4 | 6 | 16 | 12.0 |
| 3 x 4 | 6 | 18 | 13.0 |
| 3 x 4 | 8 | 18 | 14.0 |
| 3 x 4 | 10 | 12 | 13.0 |
| 3 x 4 | 10 | 15 | 13.0 |
| 3 x 4 | 10 | 16 | 17.5 |
| 3 x 4 | 10 | 18 | 16.0 |
| 3 x 4 | 12 | 12 | 15.9 |
| 3 x 4 | 16 | 16 | 20.6 |
| 3 x 4 | 18 | 18 | 22.7 |
| 3 | 16 | 16 | 16.7 |
| 4 | 4 | 12 | 12.3 |
| 4 | 4 | 16 | 14.3 |
| 4 | 4 | 18 | 17.1 |
| 4 | 6 | 12 | 12.5 |
| 4 | 6 | 15 | 15.0 |
| 4 | 6 | 16 | 16.9 |
| 4 | 6 | 18 | 14.0 |
| 4 | 8 | 16 | 18.4 |
| 4 | 8 | 18 | 19.8 |
| 4 | 10 | 12 | 15.3 |
| 4 | 10 | 15 | 18.0 |
| 4 | 10 | 16 | 19.6 |
| 4 | 10 | 18 | 19.0 |
| 4 | 12 | 12 | 14.0 |
| 4 | 12 | 14 | 14.0 |
| 4 | 12 | 16 | 20.8 |
| 4 | 12 | 18 | 19.0 |
| 4 | 14 | 16 | 22.6 |
| 4 | 14 | 18 | 24.0 |
| 4 | 16 | 16 | 23.8 |
| 4 | 16 | 18 | 24.7 |
| 4 | 18 | 18 | 27.4 |



PART NO. SV 206

**Tapped Closet Bend with
Southern Code Brass Plug**

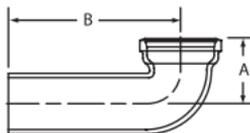
| Size | A | B | Weight |
|--------------------|----|---|--------|
| 3 1/2 x 4 x 4 x 18 | 18 | 4 | 17.4 |



PART NO. SV 208

Hub-End Closet Bend, Low Hub

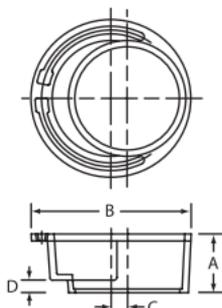
| Size | A | B | Weight |
|------|-------|----|--------|
| 4 | 4 5/8 | 12 | 14.2 |
| 4 | 4 5/8 | 14 | 15.4 |
| 4 | 4 5/8 | 16 | 17.5 |
| 4 | 4 5/8 | 18 | 18.9 |



PART NO. SPL 217

Offset Closet Flange (To Offset 1")

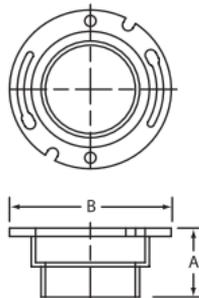
| Size | A | B | C | D | Weight |
|--------------------|-------|--------|---|-----|--------|
| 4 x 2 | 2 | 6 | 1 | 5/8 | 2.5 |
| 4 x 2 1/2 | 2 1/2 | 7 3/16 | 1 | 5/8 | 3.3 |
| 4 x 4 [◇] | 4 | 6 1/4 | 2 | 2 | 4.5 |



PART NO. SPL 219

**Greensboro
Reducing Closet Flange
(Can be used to connect 4" fixture
with 3" line, or 4" No-Hub)**

| Size | A | B | Weight |
|-----------|-------|--------|--------|
| 4 x 3 x 3 | 3 1/8 | 7 3/16 | 3.7 |

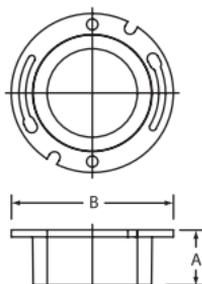


◇ 2" Offset

PART NO. SPL 220*

Clotest Flange, Notched and Slotted

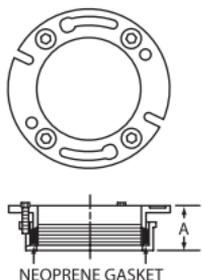
| Size | A | B | Weight |
|--------|----|--------------------------------|--------|
| 4 x 1 | 1 | 7 ³ / ₁₆ | 2.0 |
| 4 x 1½ | 1½ | 7 ³ / ₁₆ | 2.6 |
| 4 x 2 | 2 | 7 ³ / ₁₆ | 3.0 |
| 4 x 2½ | 2½ | 7 ³ / ₁₆ | 3.6 |
| 4 x 3 | 3 | 7 ³ / ₁₆ | 4.3 |
| 4 x 4 | 4 | 7 ³ / ₁₆ | 4.7 |
| 4 x 5 | 5 | 7 ³ / ₁₆ | 4.5 |
| 4 x 6 | 6 | 7 ³ / ₁₆ | 5.3 |



PART NO. SPL 225

Instant Set Clotest Flange

| Size | A | Weight |
|--------|---|--------|
| 3 x 2† | 2 | 3.5 |
| 4 x 2‡ | 2 | 5.6 |
| 4 x 3§ | 2 | 3.0 |
| 4 x 4‡ | 4 | 4.0 |



* Caulk type to go over pipe.

† Four-bolt pattern. Test cap configuration not offered.

‡ Three-bolt pattern. Available with or without test cap.

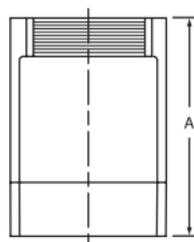
§ Three-bolt reducing pattern, with test cap.

PART NO. SV 228

**Iron Body Cleanout Ferrule, Body Only,
Less Brass Plug**

and PART NO. SV 228S

**Iron Body Cleanout Ferrule with Southern
Raised-Head Brass Plug Installed †**

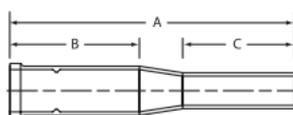


| Size | Tap Size | A | Weight |
|--------|----------|------|--------|
| 2 | 1½ | 3½ | 1.3 |
| 3 | 2½ | 3¾ | 2.0 |
| 4 | 3 | 4¼ | 3.6 |
| 5 | 4 | 4¼ | 4.5 |
| 6 | 5 | 4¼ | 5.2 |
| 8 | 6 | 4½ | 11.7 |
| 10 | 6 | 4½ | 16.3 |
| 12 | 6 | 5¼ | 25.5 |
| 15 | (XH) | (XH) | (XH) |
| 4 x 3½ | 3½ | 4½ | 4.0 |
| 4 x 8 | 3½ | 8 | 8.1 |
| 4 x 12 | 3½ | 12 | 9.2 |

PART NO. SV 253

Sission Insertable Joint

| Size | A | B | C | Weight |
|------|-----|----|----|--------|
| 2 | 14 | 6 | 6 | 7.0 |
| 3 | 16 | 8 | 6¾ | 11.6 |
| 4 | 14½ | 7 | 6 | 12.9 |
| 5 | 15⅞ | 9 | 5⅞ | 17.0 |
| 6 | 16⅜ | 8½ | 6 | 20.4 |
| 8 | 18 | 10 | 6¾ | 37.0 |

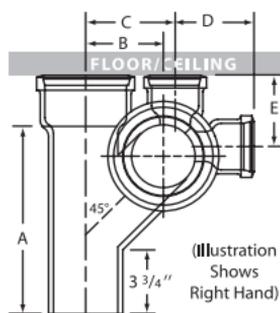


PART NO. SV 458

**Vented Closet Tee with 2" Top Vent
and 2" Extended Side Inlet**

**(Right Hand or Left Hand; Designed for use
below the floor; Fitting does not require a baffle)**

| Size | A | B | C | D | E | Weight |
|--------------|----|----|-------|-------|-------|--------|
| 4x4x2x2x4 RH | 11 | 4½ | 5³⁄₁₆ | 4⁹⁄₁₆ | 4³⁄₁₆ | 37.0 |
| 4x4x2x2x4 LH | 11 | 4½ | 5³⁄₁₆ | 4⁹⁄₁₆ | 4³⁄₁₆ | 37.8 |



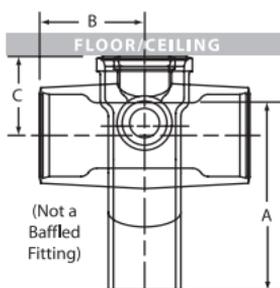
(XH) Please see Extra Heavy dimensions.

† This fitting not available with plug installed in 4 x 3½ and 4 x 8 fitting sizes.

PART NO. SV 459D

**Vented Closet Cross with 2" Top Vent
and 2" Extended Side Inlet**
(Designed for use below the floor;
Fitting does not have a baffle)

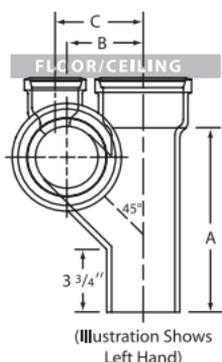
| Size | A | B | C | Weight |
|-----------|----|-------------------------------|-------------------------------|--------|
| 4x4x2x2x4 | 11 | 6 ¹ / ₄ | 4 ³ / ₄ | 47.0 |



PART NO. SV 460

Vented Closet Tee with 2" Top Vent
(Right Hand or Left Hand; Designed for use
below the floor; Fitting does not require a baffle)

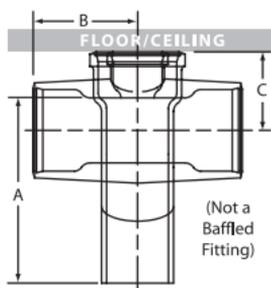
| Size | A | B | C | Weight |
|-----------|----|-------------------------------|--------------------------------|--------|
| 4x4x2x4RH | 11 | 4 ¹ / ₂ | 5 ³ / ₁₆ | 35.0 |
| 4x4x2x4LH | 11 | 4 ¹ / ₂ | 5 ³ / ₁₆ | 35.0 |



PART NO. SV 463D

**Vented Closet Cross with 2" Top Vent
and 2" Extended Side Inlet**
(Designed for use below the floor;
Fitting does not have a baffle)

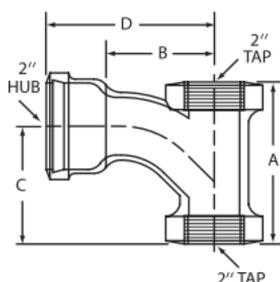
| Size | A | B | C | Weight |
|-------|----|-------------------------------|-------------------------------|--------|
| 4x4x2 | 11 | 6 ¹ / ₄ | 4 ³ / ₄ | 43.8 |



PART NO. SV 566

Tapped Long Sweep Tee

| Size | A | B | C | D | Weight |
|------|-------------------------------|-------------------------------|---|-------------------------------|--------|
| 2x2 | 5 ¹ / ₂ | 3 ¹ / ₈ | 4 | 5 ⁵ / ₈ | 6.2 |

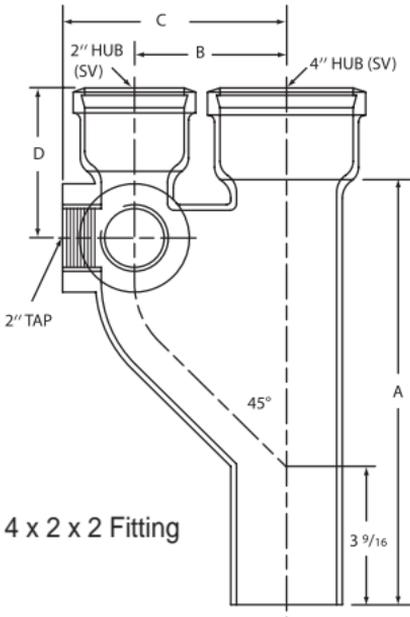
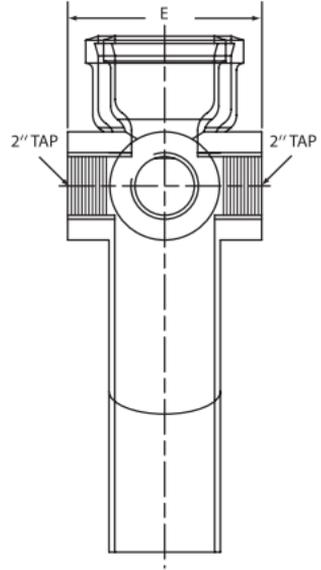
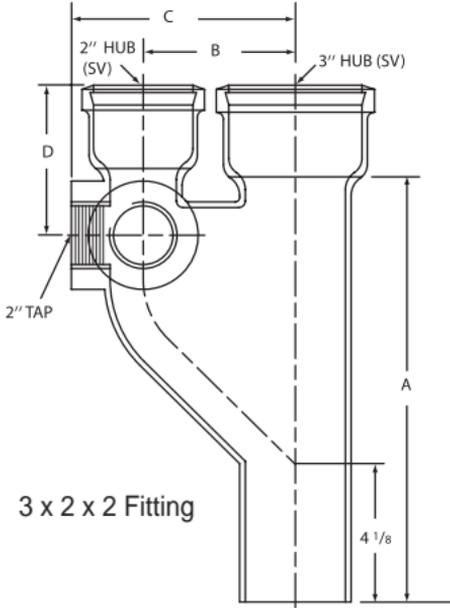


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PART NO. SV 581

Double Sink Stack-1770
(Designed for use above the floor)

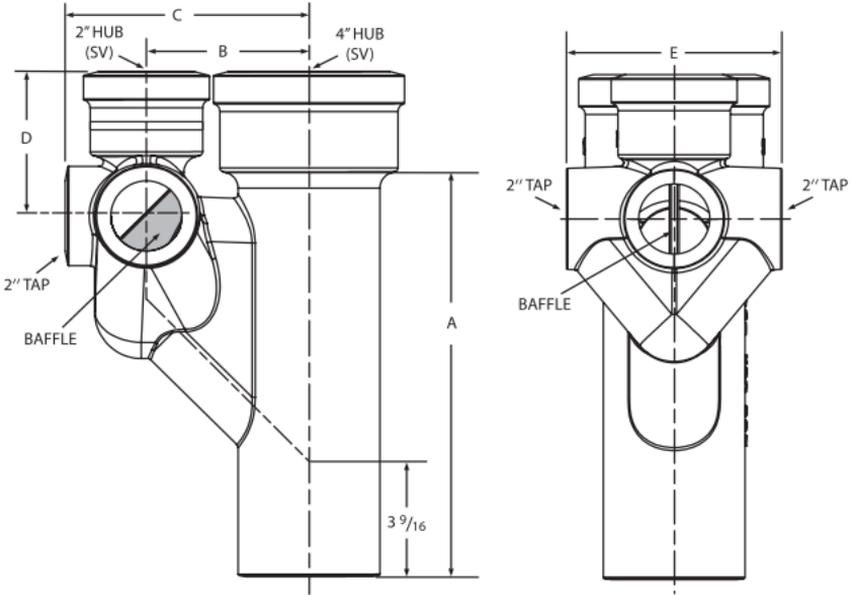
| Size | A | B | C | D | E | Weight |
|-----------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------|
| 3 x 2 x 2 | 12 ³ / ₄ | 4 ¹ / ₂ | 6 ⁵ / ₈ | 4 ¹ / ₂ | 5 ³ / ₄ | 18.0 |
| 4 x 2 x 2 | 12 ¹ / ₂ | 5 | 7 ¹ / ₂ | 4 ¹ / ₂ | 6 ⁵ / ₈ | 21.4 |



PART NO. SV 581 B

Double Sink Stack with Baffle
(Designed for use above the floor)

| Size | A | B | C | D | E | Weight |
|-----------|--------------------------------|---|-------------------------------|-------------------------------|-------------------------------|--------|
| 4 x 2 x 2 | 12 ¹ / ₂ | 5 | 7 ¹ / ₂ | 4 ¹ / ₂ | 6 ⁵ / ₈ | 23.8 |

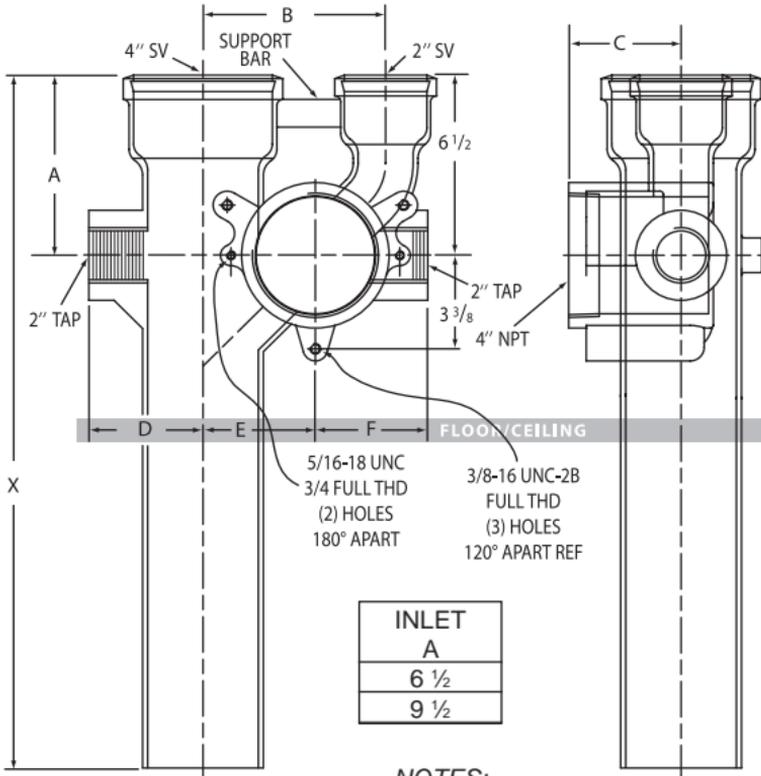


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PART NO. SV 973R

Right Hand Starter Fitting with 4" Tap and 2" Tapped "A" Side Inlet
(Designed for use above the floor with back-outlet water closets)

| Size | Inlet | A | B | C | D | E | F | X | Weight |
|------|-------|-----------|-------|---|--------|---|---|----|--------|
| 4 | 6 1/2 | See Chart | 6 1/2 | 4 | 4 1/16 | 4 | 4 | 25 | 34.8 |
| 4 | 9 1/2 | See Chart | 6 1/2 | 4 | 4 1/16 | 4 | 4 | 25 | 34.4 |

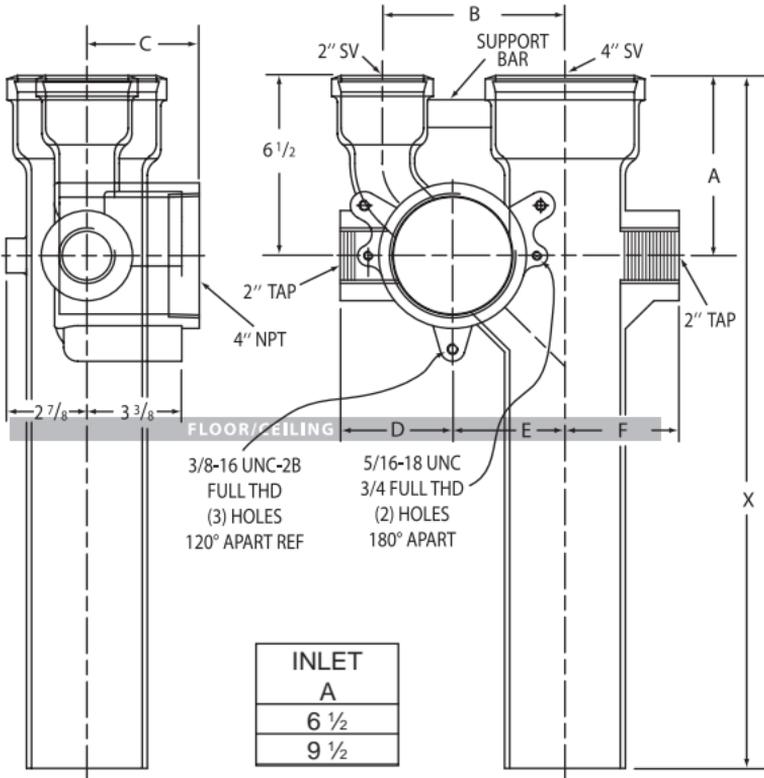


- NOTES:**
1. Single Vertical R.H. Offset Back Outlet Starter Fitting
 2. 4" Stack with 2" Vent & Inlets
 3. Face Plate Package Not Included

PART NO. SV 973L

Left Hand Starter Fitting with 4" Tap and 2" Tapped "A" Side Inlet
(Designed for use above the floor with back-outlet water closets)

| Size | Inlet | A | B | C | D | E | F | X | Weight |
|------|-------|-----------|-------|---|---|---|---|----|--------|
| 4 | 6 1/2 | See Chart | 6 1/2 | 4 | 4 | 4 | 4 | 25 | 39.2 |
| 4 | 9 1/2 | See Chart | 6 1/2 | 4 | 4 | 4 | 4 | 25 | 39.0 |

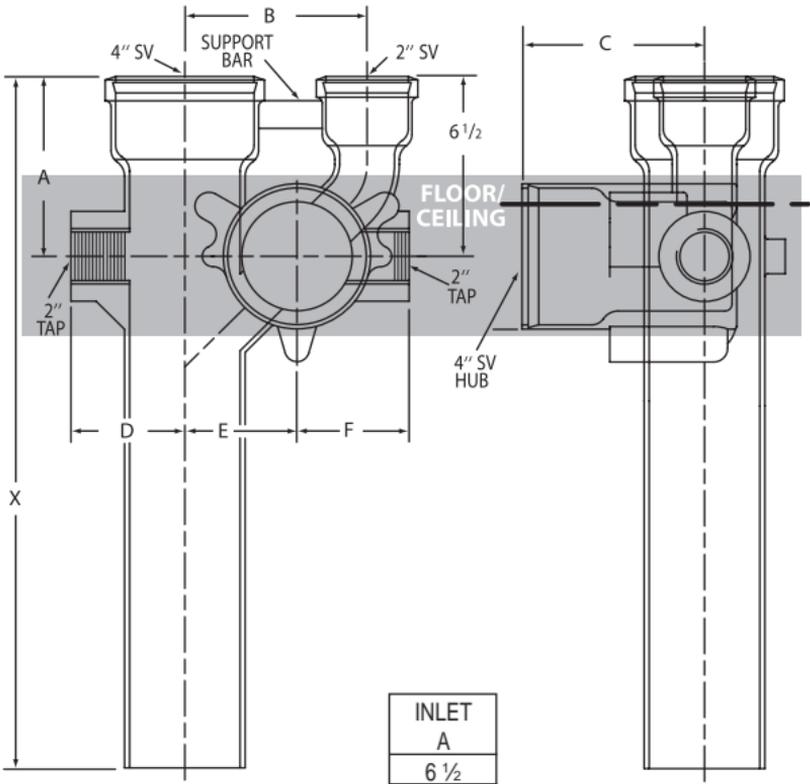


- NOTES:**
1. Single Vertical
L.H. Offset Back
Outlet Starter
Fitting
 2. 4" Stack with
2" Vent & Inlets
 3. Face Plate
Package Not
Included

PART NO. SV 974R

**Right Hand Starter Fitting with 4" Hub and
2" Tapped "A" Side Inlet**
(Designed for use below or in the floor with
bottom-outlet water closets)

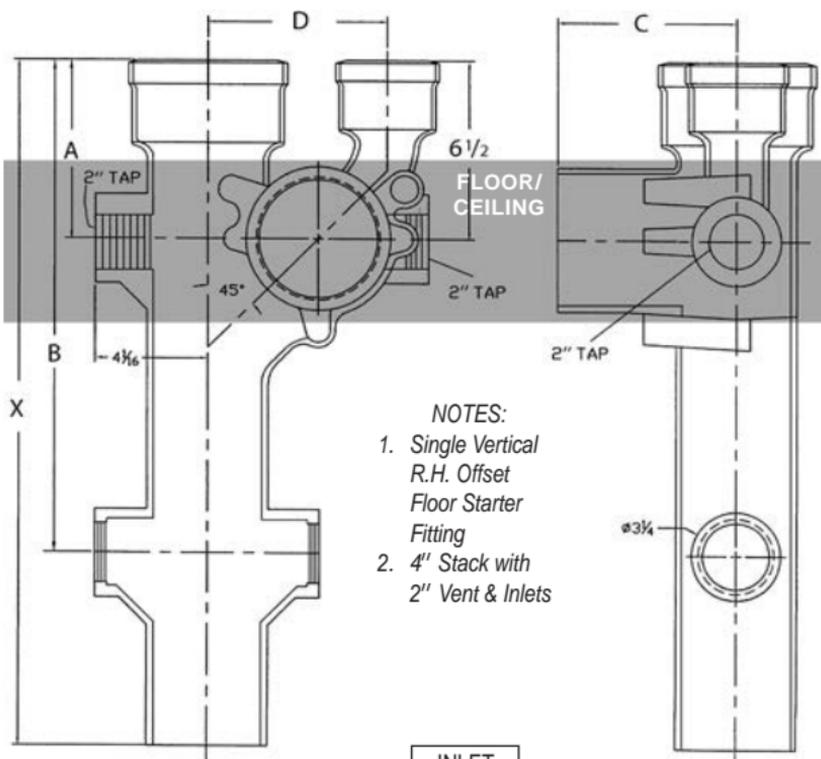
| Size | A | B | C | D | E | F | X | Weight |
|----------------|-------|-------|-------|--------|---|---|----|--------|
| 4 with A Inlet | 6 1/2 | 6 1/2 | 6 1/2 | 4 1/16 | 4 | 4 | 25 | 39.2 |



PART NO. SV 974R

**Right Hand Starter Fitting with 4" Hub and
2" Tapped "A" and "B" Side Inlets
(Designed for use below or in the floor with
bottom-outlet water closets)**

| Size | A | B | C | D | X | Weight |
|---------------------|----|----|----|----|----|--------|
| 4 with A & B Inlets | 6½ | 18 | 6½ | 6½ | 25 | 46.2 |



NOTES:

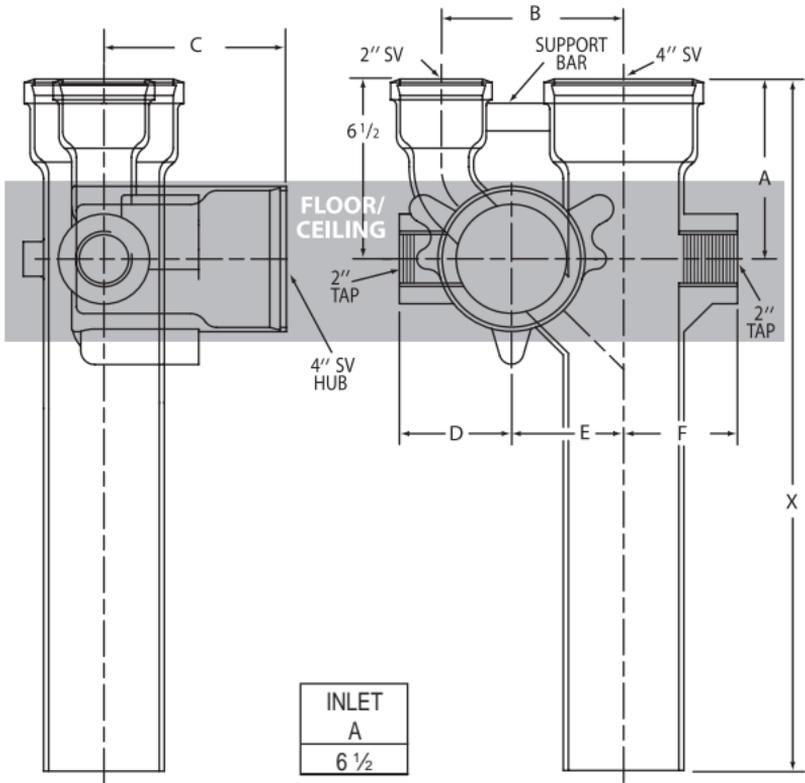
1. Single Vertical R.H. Offset Floor Starter Fitting
2. 4" Stack with 2" Vent & Inlets

| INLET | |
|-------|----|
| A | B |
| 6½ | 18 |

PART NO. SV 974L

**Left Hand Starter Fitting with 4" Hub and
2" Tapped "A" Side Inlet**
(Designed for use below or in the floor with
bottom-outlet water closets)

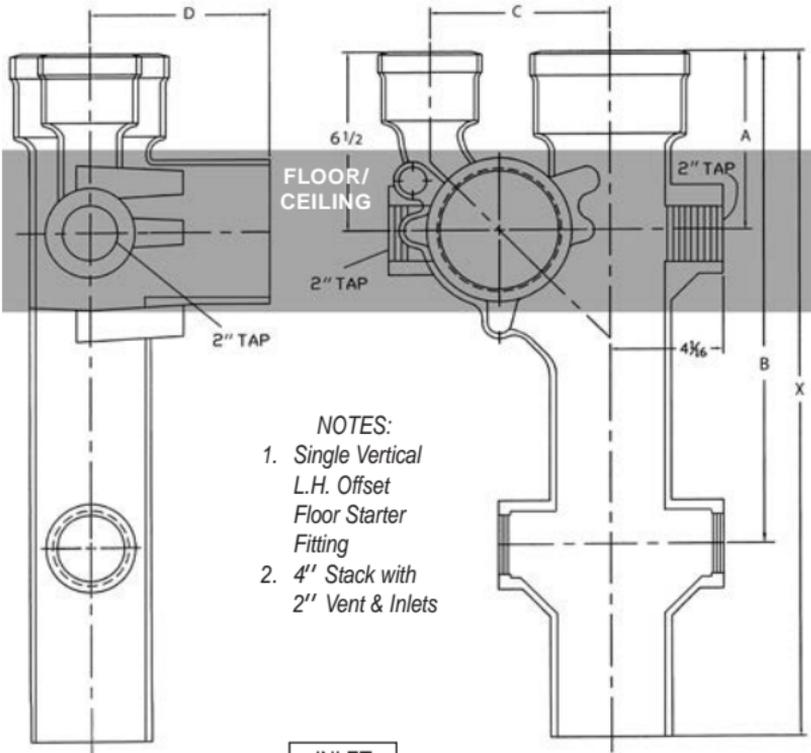
| Size | A | B | C | D | E | F | X | Weight |
|----------------|-------|-------|-------|---|---|--------|----|--------|
| 4 with A Inlet | 6 1/2 | 6 1/2 | 6 1/2 | 4 | 4 | 4 1/16 | 25 | 39.7 |



PART NO. SV 974L

**Left Hand Starter Fitting with 4" Hub and
2" Tapped "A" and "B" Side Inlets
(Designed for use below or in the floor with
bottom-outlet water closets)**

| Size | A | B | C | D | X | Weight |
|---------------------|----|----|----|----|----|--------|
| 4 with A & B Inlets | 6½ | 18 | 6½ | 6½ | 25 | 43.7 |



- NOTES:**
1. Single Vertical L.H. Offset Floor Starter Fitting
 2. 4" Stack with 2" Vent & Inlets

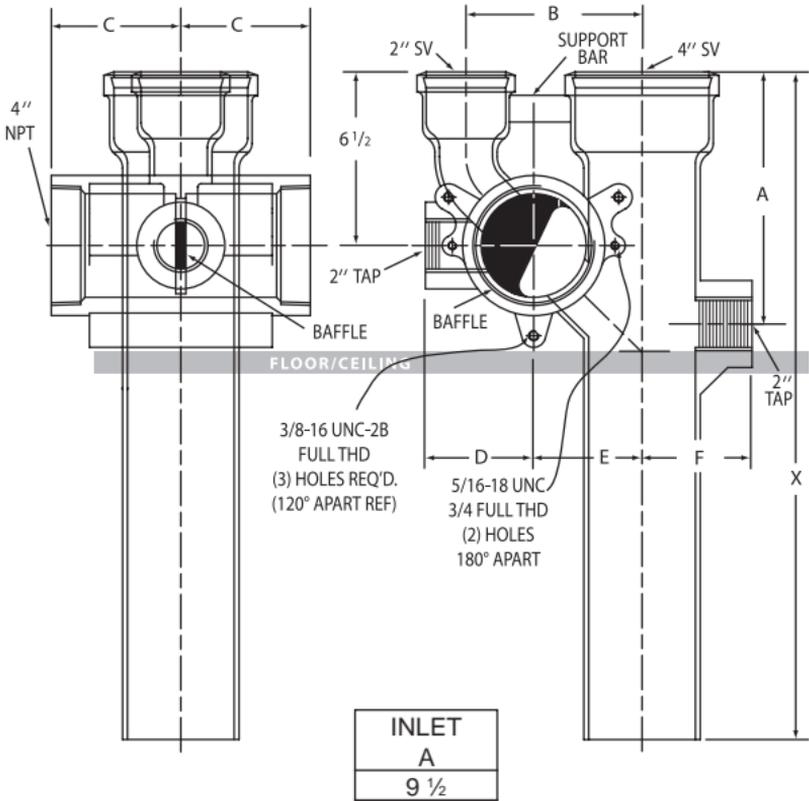
| INLET | |
|-------|----|
| A | B |
| 6½ | 18 |

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PART NO. SV 975

**Double Starter Fitting with 4" Tap and
2" Tapped "A" Side Inlet**
[Designed for use above the floor with back-outlet
water closets; Fitting has a baffle]

| Size | A | B | C | D | E | F | X | Weight |
|----------------|-------|-------|---|---|---|--------|----|--------|
| 4 with A Inlet | 9 1/2 | 6 1/2 | 4 | 4 | 4 | 4 1/16 | 25 | 42.5 |



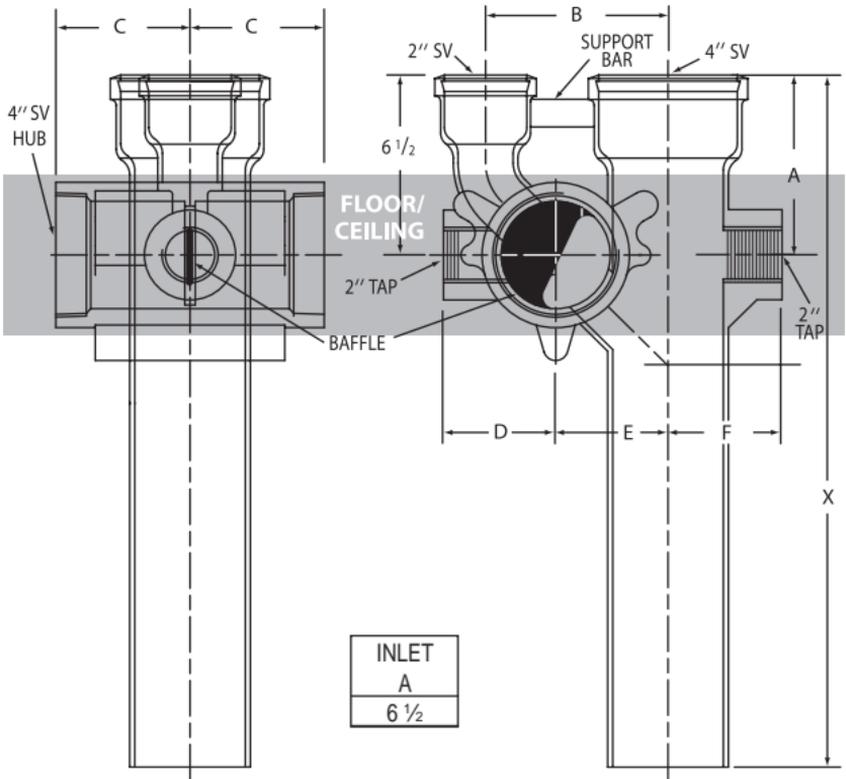
NOTES:

1. Double Vertical Offset Back Outlet Starter Fitting
2. 4" Stack with 2" Vent & Inlets
3. Face Plate Package Not Included

PART NO. SV 976

Double Starter Fitting with 4" Hub and 2" Tapped "A" Side Inlet
(Designed for use below or in the floor with
bottom-outlet water closets; Fitting has a baffle)

| Size | A | B | C | D | E | F | X | Weight |
|----------------|-------|-------|-------|---|---|--------|----|--------|
| 4 with A Inlet | 6 1/2 | 6 1/2 | 6 1/2 | 4 | 4 | 4 1/16 | 25 | 50.8 |



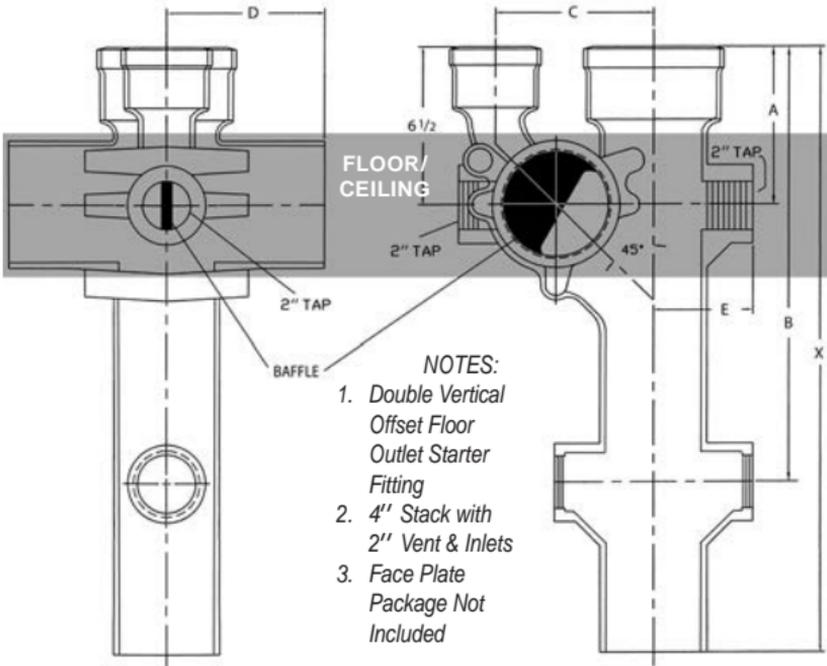
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PART NO. SV 976

**Double Starter Fitting with 4" Hub and
2" Tapped "A" and "B" Side Inlets**

**(Designed for use below or in the floor with bottom-outlet water closets;
Fitting has a baffle)**

| Size | A | B | C | D | E | X | Weight |
|---------------------|----|----|----|----|--------------------------------|----|--------|
| 4 with A & B Inlets | 6½ | 18 | 6½ | 6½ | 4 ¹ / ₁₆ | 25 | 56.6 |



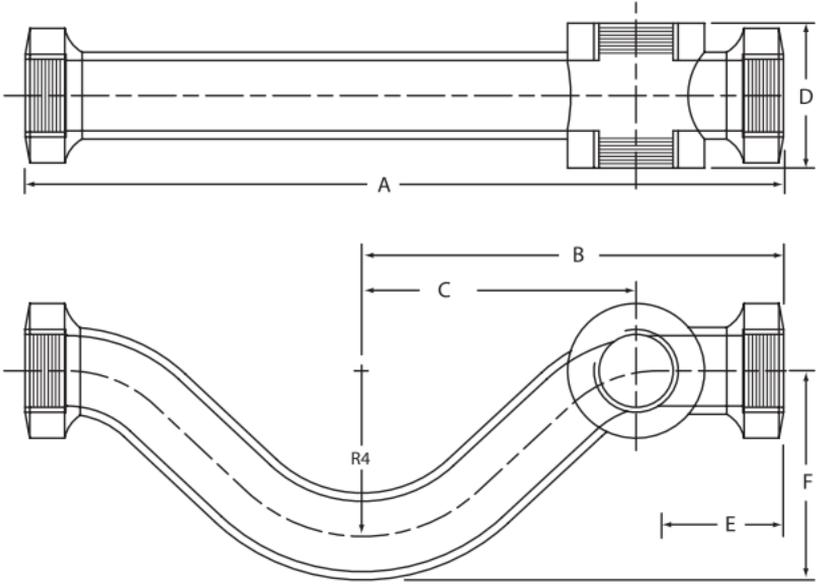
- NOTES:**
1. Double Vertical Offset Floor Outlet Starter Fitting
 2. 4" Stack with 2" Vent & Inlets
 3. Face Plate Package Not Included

| INLET | |
|-------|----|
| A | B |
| 6½ | 18 |

PART NO. SV 982

Tapped By-Pass Vent Fitting

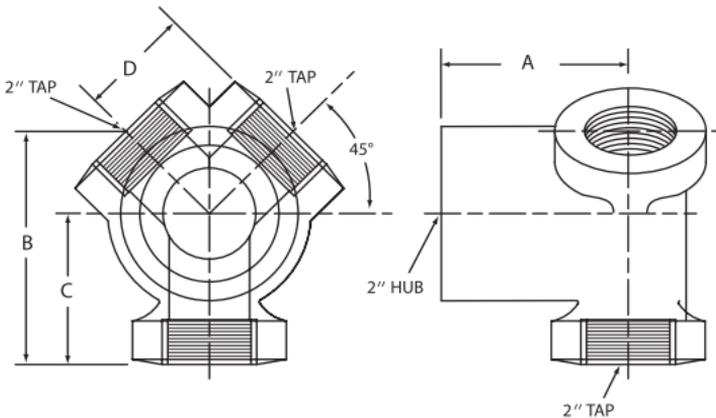
| Size | A | B | C | D | E | F | Weight |
|-------|----|----|-------|-------|---|-------|--------|
| 2 x 2 | 18 | 10 | 6 1/2 | 3 1/2 | 3 | 5 1/4 | 11.3 |



PART NO. SV 985

Tapped Bath Vent Wye

| Size | A | B | C | D | Weight |
|-------|--------|---|-------|-------|--------|
| 2 x 2 | 4 1/16 | 5 | 3 1/4 | 2 1/2 | 8.4 |

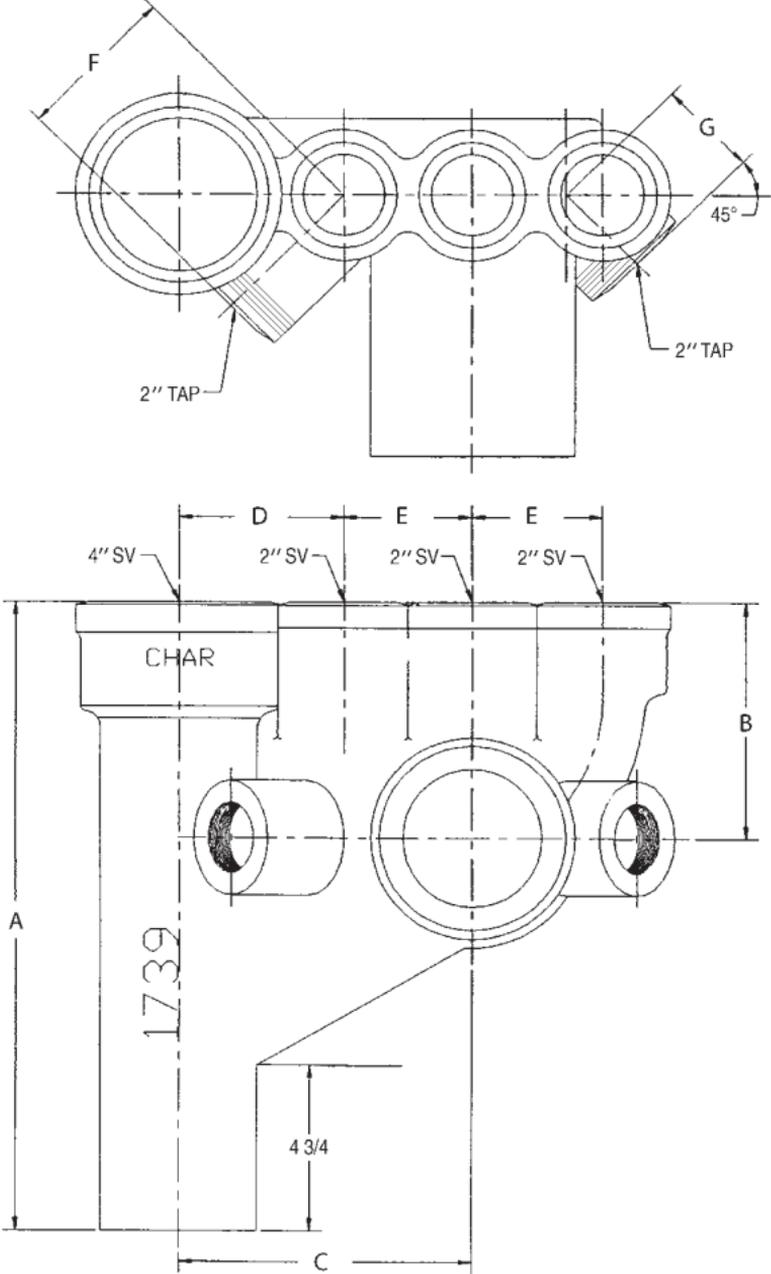


SERVICE

PART NO. SV 1739R

Right Hand Vented Closet Tee with 2" 45° Taps
(Designed for use above the floor)

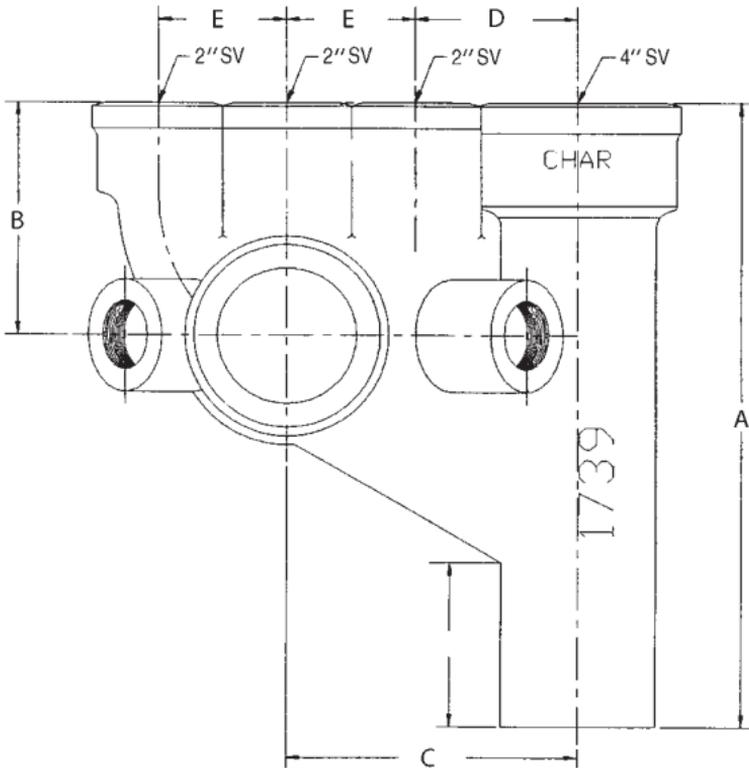
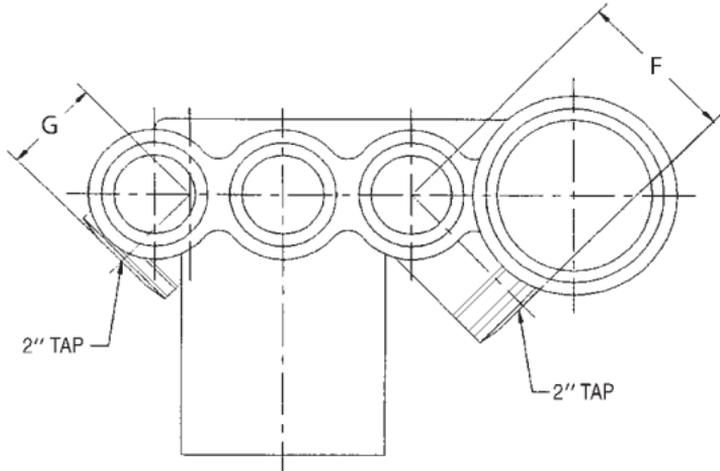
| Size | A | B | C | D | E | F | G | Weight |
|---------|----|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------|
| 4x2x4x2 | 18 | 6 ³ / ₄ | 8 ¹ / ₄ | 4 ⁵ / ₈ | 3 ⁵ / ₈ | 4 ¹ / ₂ | 2 ³ / ₄ | 51.1 |



PART NO. SV 1739L

Left Hand Vented Closet Tee with 2" 45° Taps
(Designed for use above the floor)

| Size | A | B | C | D | E | F | G | Weight |
|---------|----|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------|
| 4x2x4x2 | 18 | 6 ³ / ₄ | 8 ¹ / ₄ | 4 ⁵ / ₈ | 3 ⁵ / ₈ | 4 ¹ / ₂ | 2 ³ / ₄ | 51.0 |

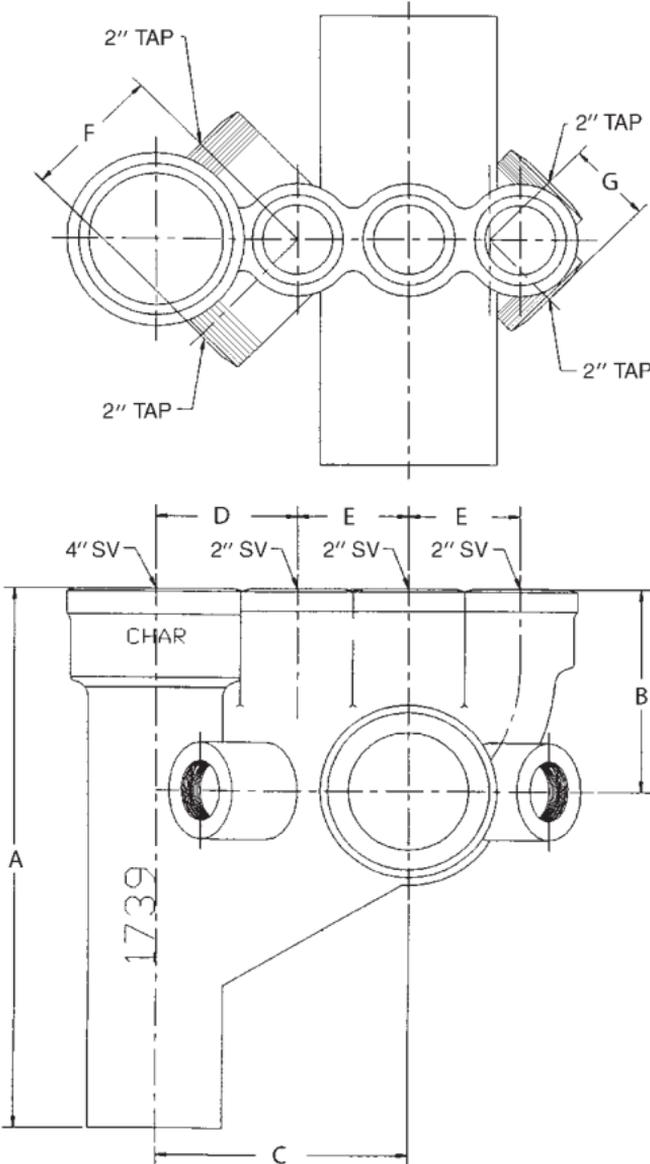


SERVICE

PART NO. SV 1739 D

Vented Closet Cross with 2" 45° Taps
(Designed for use above the floor)

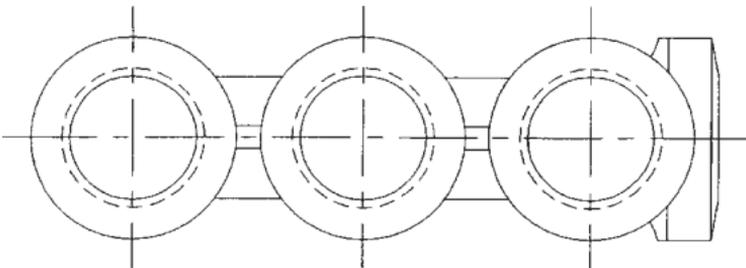
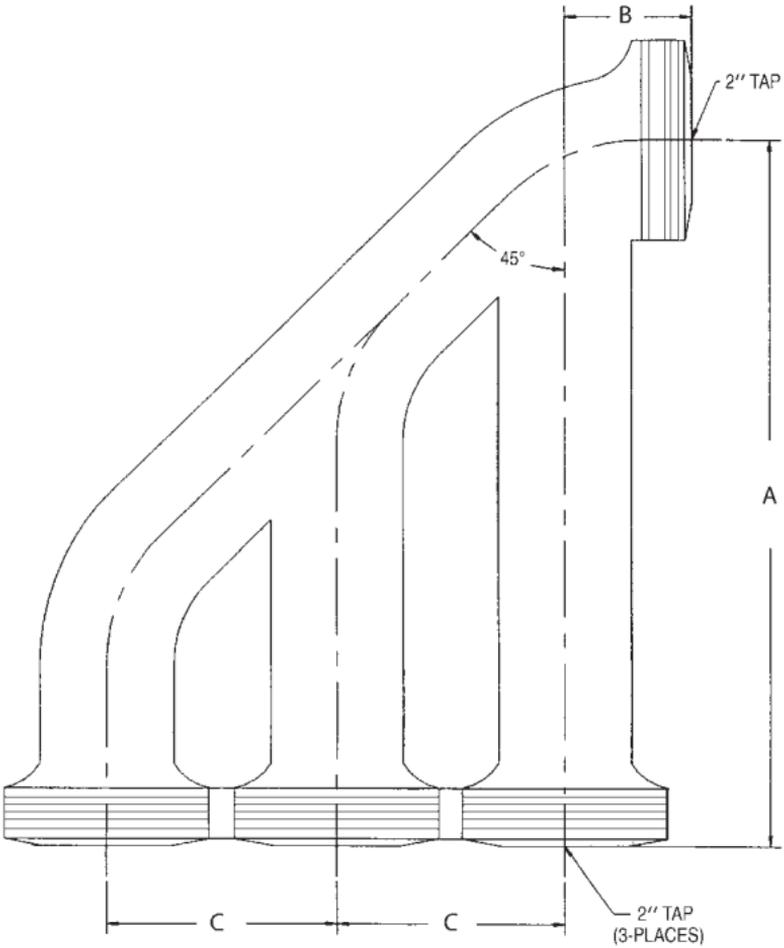
| Size | A | B | C | D | E | F | G | Weight |
|---------|----|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------|
| 4x2x4x2 | 18 | 6 ³ / ₄ | 8 ¹ / ₄ | 4 ⁵ / ₈ | 3 ⁵ / ₈ | 4 ¹ / ₂ | 2 ³ / ₄ | 57.5 |



PART NO. SV 1801

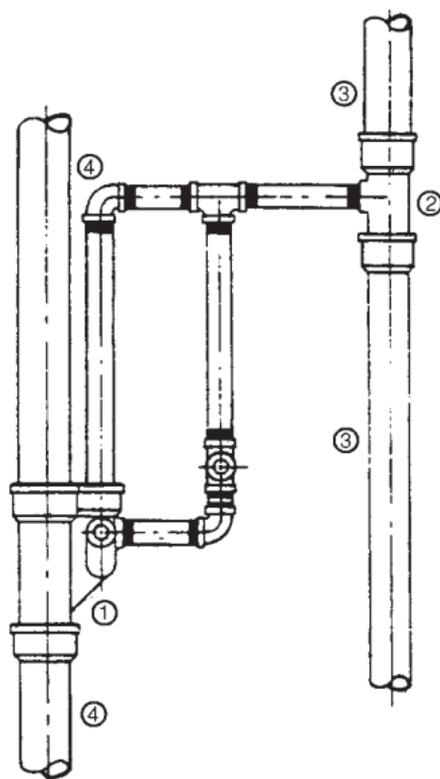
Tapped Harp Fitting

| Size | A | B | C | Weight |
|-----------|--------|---|------|--------|
| 2 X 2 X 2 | 117/16 | 2 | 35/8 | 15.5 |



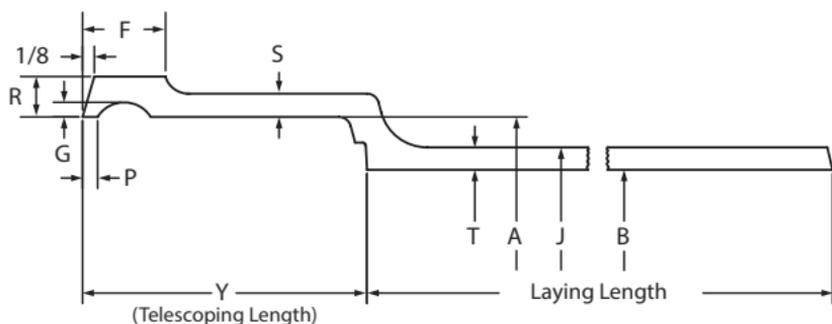
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MULTI-STORY INSTALLATION



- ① SV 581 4x2x2 Double Sink Stack — 1770
- ② SV 83 3x2 Straight Tapped Tee
- ③ 3x10 Single Hub Pipe
- ④ 4x10 Single Hub Pipe

Extra Heavy



PIPE - EXTRA-HEAVY*

| Size | Telescoping Length | Hub I.D. | Barrel | | Nominal Thickness |
|------|--------------------|----------|--------|--------|-------------------|
| | Y | A | J O.D. | B I.D. | T |
| 2" | 2.50 | 3.06 | 2.38 | 2.00 | 0.19 |
| 3" | 2.75 | 4.19 | 3.50 | 3.00 | 0.25 |
| 4" | 3.00 | 5.19 | 4.50 | 4.00 | 0.25 |
| 5" | 3.00 | 6.19 | 5.50 | 5.00 | 0.25 |
| 6" | 3.00 | 7.19 | 6.50 | 6.00 | 0.25 |
| 8" | 3.50 | 9.50 | 8.62 | 8.00 | 0.31 |
| 10" | 3.50 | 11.62 | 10.75 | 10.00 | 0.37 |
| 12" | 4.25 | 13.75 | 12.75 | 12.00 | 0.37 |
| 15" | 4.25 | 16.95 | 15.88 | 15.00 | 0.44 |

CHARLOTTE® SPEED-PAK FIVE FOOT PIPE BUNDLES

| EXTRA HEAVY WEIGHT | | | | |
|--------------------|------|--------|--------|--------|
| | SIZE | PIECES | WEIGHT | HEIGHT |
| Single Hub | 2" | 84 | 2099 | 18" |
| | 3" | 45 | 1998 | 20" |
| | 4" | 33 | 1968 | 21" |
| | 5" | 23 | 1695 | 25" |
| | 6" | 18 | 1465 | 23" |
| | 8" | 11 | 1552 | 24" |
| | 10" | 8 | 1574 | 29" |
| | 12" | 6 | 1471 | 29" |
| Double Hub | 15" | 2 | 700 | 20" |
| | 2" | 84 | 2207 | 23" |
| | 3" | 45 | 2007 | 24" |
| | 4" | 33 | 1992 | 25" |
| | 5" | 23 | 1847 | 29" |
| | 6" | 18 | 1535 | 28" |

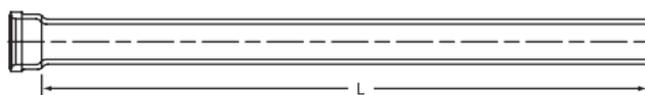
* For additional dimensional information please see the Cast Iron Technical and Installation Manual.

CHARLOTTE® SPEED-PAK
30" SINGLE HUB PIPE BUNDLES

| EXTRA HEAVY WEIGHT | | | | |
|----------------------|----------|--------|--------|--------|
| 30" Single Hub | SIZE | PIECES | WEIGHT | HEIGHT |
| | 8 x 30" | 11 | 835 | 26" |
| | 10 x 30" | 8 | 901 | 24" |
| | 12 x 30" | 6 | 816 | 30" |
| | 15 x 30" | 2 | 394 | 19" |

TEN FOOT PIPE BUNDLES

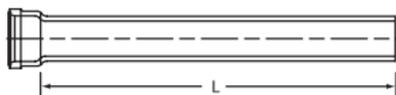
| EXTRA HEAVY WEIGHT | | | | |
|--------------------|----------|--------|--------|--------|
| Single Hub | SIZE | PIECES | WEIGHT | HEIGHT |
| | 2 x 10' | 48 | 2173 | 12" |
| | 3 x 10' | 30 | 2517 | 15" |
| | 4 x 10' | 24 | 2517 | 18" |
| | 5 x 10' | 21 | 2820 | 20" |
| | 6 x 10' | 12 | 1879 | 16" |
| | 8 x 10' | 8 | 1968 | 21" |
| | 10 x 10' | 6 | 2252 | 25" |
| | 12 x 10' | 3 | 1413 | 15" |
| | 15 x 10' | 2 | 1353 | 20" |

PART NO. XH 1

Pipe, 5' Lengths, Single Hub

| Size | L | Weight |
|----------|----|--------|
| 2" x 5' | 5' | 25.0 |
| 3" x 5' | 5' | 44.4 |
| 4" x 5' | 5' | 59.6 |
| 5" x 5' | 5' | 73.7 |
| 6" x 5' | 5' | 81.4 |
| 8" x 5' | 5' | 141.1 |
| 10" x 5' | 5' | 196.7 |
| 12" x 5' | 5' | 245.2 |
| 15" x 5' | 5' | 350.0 |

Weights are approximate and are for shipping purposes only.

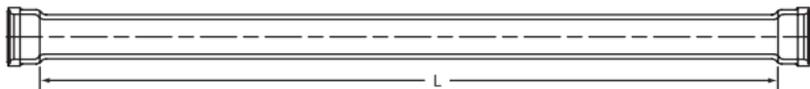
PART NO. XH 1A



Pipe, 30'' Lengths, Single Hub

| Size | L | Weight |
|-------------|------|--------|
| 8'' x 30'' | 30'' | 75.9 |
| 10'' x 30'' | 30'' | 112.6 |
| 12'' x 30'' | 30'' | 136.0 |
| 15'' x 30'' | 30'' | 197.0 |

PART NO. XH 2



Pipe, 5' Lengths, Double Hub

| Size | L | Weight |
|----------|------------|--------|
| 2'' x 5' | 4' 9 1/2'' | 26.3 |
| 3'' x 5' | 4' 9 1/4'' | 44.6 |
| 4'' x 5' | 4' 9'' | 60.4 |
| 5'' x 5' | 4' 9'' | 80.3 |
| 6'' x 5' | 4' 9'' | 85.3 |

PART NO. XH 3



Pipe, 10' Lengths, Single Hub

| Size | L | Weight |
|------------|-----|--------|
| 2'' x 10' | 10' | 45.3 |
| 3'' x 10' | 10' | 83.9 |
| 4'' x 10' | 10' | 104.9 |
| 5'' x 10' | 10' | 134.3 |
| 6'' x 10' | 10' | 156.6 |
| 8'' x 10' | 10' | 246.1 |
| 10'' x 10' | 10' | 375.4 |
| 12'' x 10' | 10' | 471.0 |
| 15'' x 10' | 10' | 676.4 |

PART NO. XH 4



Pipe, 30" Lengths, Double Hub

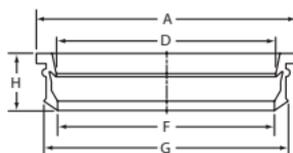
| Size | L | Weight |
|----------|---------|--------|
| 2" x 30" | 25" | 15.0 |
| 3" x 30" | 24 1/2" | 26.0 |
| 4" x 30" | 24" | 33.0 |

EXTRA HEAVY

PART NO. XH 900

Extra Heavy Charlotte Seal Gasket

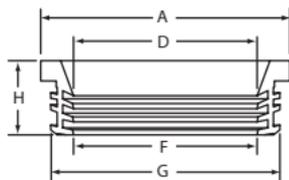
| Size | A | D | F | G | H | Weight |
|------|---------|--------|-----------|--------|-------|--------|
| 2 | 3 1/2 | 2 3/8 | 2 9/32 | 3 3/16 | 1 7/8 | 0.3 |
| 3 | 4 15/16 | 3 1/2 | 3 1/2 | 4 1/2 | 2 1/4 | 0.4 |
| 4 | 5 3/4 | 4 7/32 | 4 13/32 | 5 7/16 | 2 1/4 | 0.6 |
| 5 | 6 3/4 | 5 1/2 | 5 1/2 | 6 3/16 | 2 1/2 | 0.7 |
| 6 | 8 | 6 1/2 | 6 1/2 | 7 3/8 | 2 1/2 | 0.9 |
| 8 | 10 | 8 1/2 | 8 5/16 | 9 1/2 | 3 | 1.6 |
| 10 | 12 1/2 | 10 3/4 | 10 1 1/32 | 11 1/2 | 3 | 2.0 |
| 12 | 14 7/16 | 12 5/8 | 12 5/8 | 14 | 3 | 2.8 |



PART NO. XH 950

Extra Heavy Quick-Tite Gasket

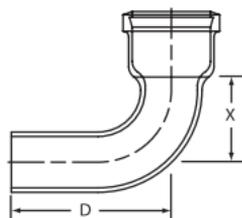
| Size | A | D | F | G | H | Weight |
|------|--------|----------|---------|---------|---------|--------|
| 4 | 6 1/8 | 4 1/4 | 4 13/32 | 5 11/16 | 1 13/16 | 0.6 |
| 15 | 17 3/4 | 15 13/32 | 15 | 16 7/8 | 3 1/4 | 5.0 |



PART NO. XH 5

**Quarter Bend
 (90° EII)**

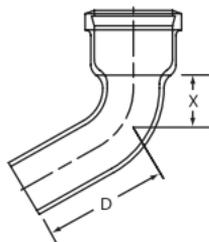
| Size | D | X | Weight |
|------|--------------------------------|--------------------------------|--------|
| 2 | 6 | 3 ¹ / ₄ | 6.3 |
| 3 | 7 | 4 | 11.1 |
| 4 | 8 | 4 ¹ / ₂ | 15.5 |
| 5 | 8 ¹ / ₂ | 5 | 18.5 |
| 6 | 9 | 5 ¹ / ₂ | 25.8 |
| 8 | 11 ¹ / ₂ | 6 ⁵ / ₈ | 47.0 |
| 10 | 12 ¹ / ₂ | 7 ⁵ / ₈ | 80.0 |
| 12 | 15 | 8 ³ / ₄ | 142.0 |
| 15 | 16 ¹ / ₂ | 10 ¹ / ₄ | 173.9 |



PART NO. XH 7

**Sixth Bend
 (60° EII)**

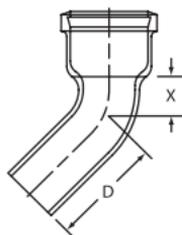
| Size | D | X | Weight |
|------|--------------------------------|---------------------------------|--------|
| 2 | 4 ³ / ₄ | 2 | 6.0 |
| 3 | 5 ¹ / ₂ | 2 ¹ / ₂ | 7.2 |
| 4 | 6 ⁵ / ₁₆ | 2 ¹³ / ₁₆ | 14.0 |
| 6 | 6 ⁷ / ₈ | 3 ³ / ₈ | 21.0 |



PART NO. XH 8

**Eighth Bend
 (45° Ell)**

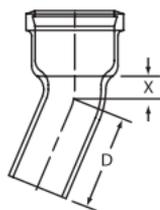
| Size | D | X | Weight |
|------|----------------------------------|---------------------------------|--------|
| 2 | 4 ¹ / ₄ | 1 ¹ / ₂ | 4.7 |
| 3 | 4 ¹⁵ / ₁₆ | 1 ¹⁵ / ₁₆ | 8.8 |
| 4 | 5 ¹¹ / ₁₆ | 2 ³ / ₁₆ | 12.4 |
| 5 | 5 ⁷ / ₈ | 2 ³ / ₈ | 15.0 |
| 6 | 6 ¹ / ₁₆ | 2 ⁹ / ₁₆ | 18.9 |
| 8 | 8 | 3 ¹ / ₈ | 36.2 |
| 10 | 8 ³ / ₈ | 3 ¹ / ₂ | 59.7 |
| 12 | 10 ⁵ / ₁₆ | 4 ¹ / ₁₆ | 90.0 |
| 15 | 10 ¹⁵ / ₁₆ | 4 ¹¹ / ₁₆ | 122.0 |


 EXTRA
 HEAVY

PART NO. XH 9

**Sixteenth Bend
 (22 1/2° Ell)**

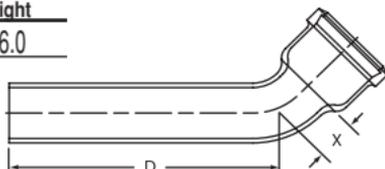
| Size | D | X | Weight |
|------|---------------------------------|---------------------------------|--------|
| 2 | 3 ⁵ / ₈ | 7 ⁷ / ₈ | 4.6 |
| 3 | 4 ³ / ₁₆ | 1 ³ / ₁₆ | 9.1 |
| 4 | 4 ¹³ / ₁₆ | 1 ⁵ / ₁₆ | 9.5 |
| 5 | 4 ⁷ / ₈ | 1 ³ / ₈ | 13.8 |
| 6 | 5 | 1 ¹ / ₂ | 16.0 |
| 8 | 6 ¹¹ / ₁₆ | 1 ¹³ / ₁₆ | 31.8 |
| 10 | 6 ⁷ / ₈ | 2 | 53.0 |
| 12 | 8 ⁵ / ₈ | 2 ³ / ₈ | 65.0 |
| 15 | 8 ⁷ / ₈ | 2 ⁵ / ₈ | 103.0 |



PART NO. XH 26

Long Eighth Bend

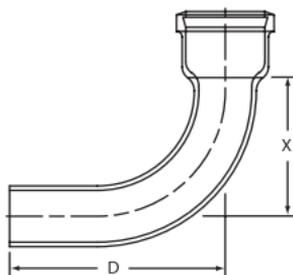
| Size | D | X | Weight |
|--------|----|--------------------------------|--------|
| 4 x 18 | 18 | 2 ³ / ₁₆ | 26.0 |



PART NO. XH 29

Short Sweep Bend

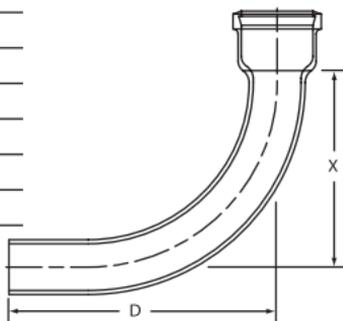
| Size | D | X | Weight |
|------|------------------|------------------|--------|
| 2 | 8 | 5 $\frac{1}{4}$ | 7.2 |
| 3 | 9 | 6 | 13.0 |
| 4 | 10 | 6 $\frac{1}{2}$ | 18.2 |
| 5 | 10 $\frac{1}{2}$ | 7 | 23.8 |
| 6 | 11 | 7 $\frac{1}{2}$ | 28.4 |
| 8 | 13 $\frac{1}{2}$ | 8 $\frac{5}{8}$ | 57.0 |
| 10 | 14 $\frac{1}{2}$ | 9 $\frac{5}{8}$ | 90.0 |
| 12 | 17 | 10 $\frac{3}{4}$ | 136.0 |



PART NO. XH 30

Long Sweep Bend

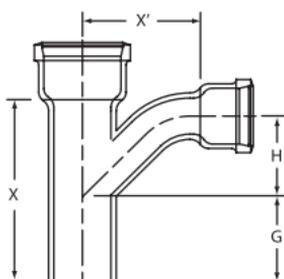
| Size | D | X | Weight |
|------|------------------|------------------|--------|
| 2 | 11 | 8 $\frac{1}{4}$ | 9.0 |
| 3 | 12 | 9 | 16.6 |
| 4 | 13 | 9 $\frac{1}{2}$ | 23.6 |
| 5 | 13 $\frac{1}{2}$ | 10 | 30.0 |
| 6 | 14 | 10 $\frac{1}{2}$ | 38.2 |
| 8 | 16 $\frac{1}{2}$ | 11 $\frac{5}{8}$ | 58.6 |
| 10 | 17 $\frac{1}{2}$ | 12 $\frac{5}{8}$ | 109.0 |
| 12 | 20 | 13 $\frac{3}{4}$ | 136.0 |
| 15 | 21 $\frac{1}{2}$ | 15 $\frac{1}{4}$ | 213.3 |



PART NO. XH 33

**Combination Wye & Eighth Bend
 (Long Turn Pattern)**

| Size | G | H | X | X' | Weight |
|-------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--------|
| 2 x 2 | 4 | 3 ³ / ₈ | 8 | 4 ⁷ / ₈ | 9.7 |
| 3 x 2 | 4 ³ / ₁₆ | 4 | 9 | 5 ³ / ₄ | 16.0 |
| 3 x 3 | 5 | 5 ¹ / ₁₆ | 10 ¹ / ₂ | 7 | 18.2 |
| 4 x 2 | 3 ¹¹ / ₁₆ | 4 ¹ / ₂ | 9 | 6 ¹ / ₄ | 18.9 |
| 4 x 3 | 4 ¹ / ₂ | 5 ⁹ / ₁₆ | 10 ¹ / ₂ | 7 ¹ / ₂ | 22.0 |
| 4 x 4 | 4 ¹ / ₂ | 7 ¹ / ₂ | 12 | 9 | 28.1 |
| 5 x 4 | 4 ¹ / ₄ | 7 ⁵ / ₁₆ | 12 | 9 ¹ / ₂ | 29.3 |
| 5 x 5 | 5 ¹ / ₂ | 8 ⁵ / ₈ | 13 ¹ / ₂ | 11 | 33.7 |
| 6 x 2 | 2 ¹¹ / ₁₆ | 5 ¹ / ₂ | 9 | 7 ¹ / ₄ | 22.0 |
| 6 x 3 | 3 ¹ / ₈ | 6 ⁹ / ₁₆ | 10 ¹ / ₂ | 8 ¹ / ₂ | 30.4 |
| 6 x 4 | 4 ¹ / ₄ | 7 ¹³ / ₁₆ | 12 | 10 | 38.5 |
| 6 x 6 | 5 ³ / ₄ | 10 ⁵ / ₁₆ | 15 | 12 ⁷ / ₈ | 53.5 |
| 8 x 4 | 4 ³ / ₄ | 8 ¹³ / ₁₆ | 13 ¹ / ₂ | 11 | 54.0 |
| 8 x 6 | 6 ⁵ / ₁₆ | 11 ⁵ / ₁₆ | 16 ¹ / ₂ | 13 ⁷ / ₈ | 70.5 |
| 8 x 8 | 7 ¹¹ / ₁₆ | 13 ⁷ / ₈ | 19 ¹ / ₂ | 17 | 107.4 |

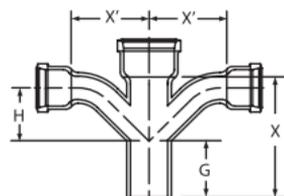


EXTRA HEAVY

PART NO. XH 35F

**Double Combination Wye & Eighth Bend
 (Long Turn Pattern)**

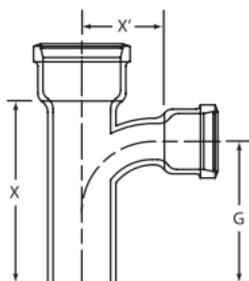
| Size | G | H | X | X' | Weight |
|-------|-------------------------------|---------------------------------|----|----|--------|
| 4 x 4 | 5 ¹ / ₄ | 6 ¹³ / ₁₆ | 12 | 9 | 44.0 |
| 6 x 4 | 4 ¹ / ₄ | 7 ¹³ / ₁₆ | 12 | 10 | 43.0 |



PART NO. XH 43

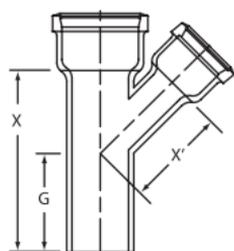
Sanitary Tee

| Size | G | X | X' | Weight |
|---------|--------------------------------|--------------------------------|--------------------------------|--------|
| 2 x 2 | 6 ¹ / ₄ | 8 | 2 ⁷ / ₈ | 8.7 |
| 3 x 2 | 7 | 9 | 4 | 14.2 |
| 3 x 3 | 7 ¹ / ₂ | 10 | 4 | 17.1 |
| 4 x 2 | 7 | 9 | 4 ¹ / ₂ | 17.4 |
| 4 x 3 | 7 ¹ / ₂ | 10 | 4 ¹ / ₂ | 18.3 |
| 4 x 4 | 8 | 11 | 4 ¹ / ₂ | 22.5 |
| 5 x 5 | 8 ¹ / ₂ | 12 | 5 | 28.0 |
| 6 x 3 | 7 ¹ / ₂ | 10 | 5 ¹ / ₂ | 24.4 |
| 6 x 4 | 8 | 11 | 5 ¹ / ₂ | 28.0 |
| 6 x 6 | 9 | 13 | 5 ¹ / ₂ | 35.4 |
| 8 x 4 | 9 ³ / ₄ | 13 | 6 ¹ / ₂ | 51.0 |
| 8 x 6 | 10 ³ / ₄ | 15 | 6 ¹ / ₂ | 54.5 |
| 8 x 8 | 11 ³ / ₄ | 17 | 6 ⁵ / ₈ | 72.0 |
| 10 x 6 | 10 ³ / ₄ | 15 | 7 ¹ / ₂ | 77.0 |
| 10 x 8 | 11 ³ / ₄ | 17 | 7 ⁵ / ₈ | 95.0 |
| 10 x 10 | 12 ³ / ₄ | 19 | 7 ⁵ / ₈ | 115.0 |
| 12 x 8 | 13 | 18 ¹ / ₂ | 8 ⁵ / ₈ | 126.0 |
| 12 x 12 | 15 | 22 ¹ / ₂ | 8 ³ / ₄ | 173.0 |
| 15 x 8 | 13 | 18 ¹ / ₂ | 10 ¹ / ₈ | 180.0 |
| 15 x 15 | 16 ¹ / ₂ | 25 ¹ / ₂ | 10 ¹ / ₄ | 280.0 |



PART NO. XH 44

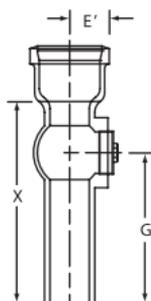
| Size | Wye | | | Weight |
|---------|---------------------------------|--------------------------------|----------------------------------|--------|
| | G | X | X' | |
| 2 x 2 | 4 | 8 | 4 | 9.0 |
| 3 x 2 | 4 ³ / ₁₆ | 9 | 5 | 13.2 |
| 3 x 3 | 5 | 10 ¹ / ₂ | 5 ¹ / ₂ | 17.2 |
| 4 x 2 | 3 ⁵ / ₈ | 9 | 5 ³ / ₄ | 16.8 |
| 4 x 3 | 4 ⁷ / ₁₆ | 10 ¹ / ₂ | 6 ¹ / ₄ | 20.6 |
| 4 x 4 | 5 ¹ / ₄ | 12 | 6 ³ / ₄ | 23.7 |
| 5 x 3 | 3 ⁷ / ₈ | 10 ¹ / ₂ | 7 | 23.7 |
| 5 x 4 | 4 ¹ / ₁₆ | 12 | 7 ¹ / ₂ | 28.3 |
| 5 x 5 | 5 ¹ / ₂ | 13 ¹ / ₂ | 8 | 31.6 |
| 6 x 3 | 3 ³ / ₈ | 10 ¹ / ₂ | 7 ³ / ₄ | 26.8 |
| 6 x 4 | 4 ³ / ₁₆ | 12 | 8 ¹ / ₄ | 31.9 |
| 6 x 5 | 4 ¹⁵ / ₁₆ | 13 ¹ / ₂ | 8 ³ / ₄ | 33.8 |
| 6 x 6 | 5 ³ / ₄ | 15 | 9 ¹ / ₄ | 41.2 |
| 8 x 4 | 4 ³ / ₄ | 13 ¹ / ₂ | 9 ¹ / ₂ | 50.2 |
| 8 x 6 | 6 ⁵ / ₁₆ | 16 ¹ / ₂ | 10 ¹ / ₂ | 61.5 |
| 8 x 8 | 7 ¹ / ₁₆ | 19 ¹ / ₂ | 11 ³ / ₁₆ | 86.6 |
| 10 x 4 | 3 ⁹ / ₁₆ | 13 ¹ / ₂ | 11 ¹ / ₈ | 72.0 |
| 10 x 6 | 5 ¹ / ₈ | 16 ¹ / ₂ | 12 ¹ / ₈ | 84.0 |
| 10 x 8 | 6 ¹ / ₂ | 19 ¹ / ₂ | 13 ⁷ / ₁₆ | 101.7 |
| 10 x 10 | 8 | 22 ¹ / ₂ | 14 ¹ / ₂ | 137.0 |
| 12 x 6 | 5 ¹ / ₁₆ | 18 | 13 ⁷ / ₁₆ | 108.0 |
| 12 x 8 | 7 ¹ / ₁₆ | 21 | 14 ³ / ₄ | 140.0 |
| 12 x 10 | 8 ⁹ / ₁₆ | 24 | 15 ¹³ / ₁₆ | 180.0 |
| 12 x 12 | 10 ¹ / ₈ | 27 | 16 ⁷ / ₈ | 198.0 |
| 15 x 4 | 6 ⁷ / ₈ | 15 | 15 | 153.0 |
| 15 x 8 | 5 ³ / ₈ | 21 | 17 ¹ / ₁₆ | 219.0 |
| 15 x 10 | 6 ⁷ / ₈ | 24 | 18 ¹ / ₈ | 229.0 |
| 15 x 12 | 8 ⁷ / ₁₆ | 27 | 19 ⁹ / ₁₆ | 236.0 |
| 15 x 15 | 10 ³ / ₄ | 31 ¹ / ₂ | 20 ³ / ₄ | 309.4 |



PART NO. XH 79

Washington Test Tee

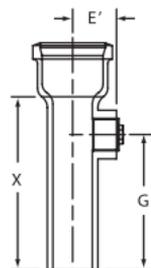
| Size | IPS | | E' | G | X | Weight |
|------|-----|--|-------------------------------|-------------------------------|--------------------------------|--------|
| | Tap | | | | | |
| 3 | 4 | | 2 ⁷ / ₈ | 7 ¹ / ₈ | 10 ³ / ₄ | 13.9 |
| 4 | 4 | | 3 ¹ / ₄ | 7 ¹ / ₄ | 10 ⁵ / ₈ | 19.9 |
| 5 | 5 | | 3 ⁵ / ₈ | 7 | 11 | 24.4 |
| 6 | 6 | | 4 | 8 ³ / ₄ | 13 | 42.2 |
| 8 | 8 | | 5 | 11 | 16 ³ / ₈ | 58.5 |



PART NO. XH 80

Cleanout Tee with Brass Plug

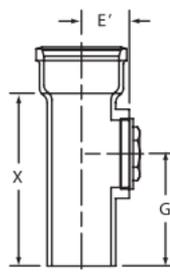
| Size | IPS | | E' | G | X | Weight |
|------|-----|--|-------------------------------|-------------------------------|----|--------|
| | Tap | | | | | |
| 3 | 2 | | 2 ¹ / ₂ | 7 | 9 | 11.3 |
| 4 | 3 | | 3 | 8 | 11 | 15.5 |
| 5 | 4 | | 3 ¹ / ₂ | 8 ¹ / ₂ | 12 | 22.9 |
| 6 | 4 | | 4 ¹ / ₄ | 9 | 13 | 26.9 |



PART NO. XH 81S

Miami Test Tee

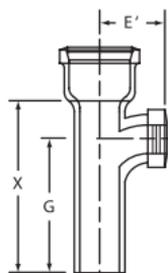
| Size | IPS | | E' | G | X | Weight |
|------|-----|--|----|-------------------------------|----|--------|
| | Tap | | | | | |
| 4 | 4 | | 3 | 7 ¹ / ₄ | 11 | 16.0 |



PART NO. XH 84

Sanitary Tapped Tee

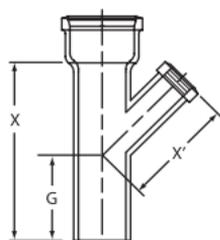
| Size | E' | G | X | Weight |
|-------|--------------------------------|---|---|--------|
| 4 X 2 | 4 ¹ / ₁₆ | 7 | 9 | 14.3 |



PART NO. XH 85

Tapped Wye

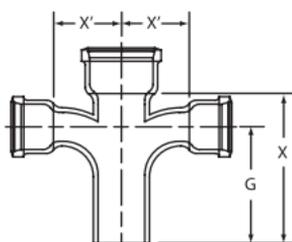
| Size | G | X | X' | Weight |
|-------|-------------------------------|---|----|--------|
| 4 X 2 | 4 ¹ / ₄ | 9 | 6 | 13.8 |



PART NO. XH 109

Sanitary Cross

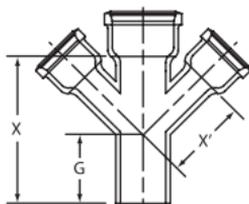
| Size | G | X | X' | Weight |
|------|---|----|-------------------------------|--------|
| 4 | 8 | 11 | 4 ¹ / ₂ | 27.0 |



PART NO. XH 110

Double Wye

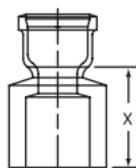
| Size | G | X | X' | Weight |
|-------|--------------------------------|--------------------------------|----------------------------------|--------|
| 2 | 4 | 8 | 4 | 13.1 |
| 4 x 3 | 4 ⁷ / ₁₆ | 10 ¹ / ₂ | 6 ¹ / ₄ | 26.9 |
| 4 | 5 ¹ / ₄ | 12 | 6 ³ / ₄ | 28.2 |
| 6 x 4 | 4 ³ / ₁₆ | 12 | 8 ¹ / ₄ | 39.8 |
| 6 | 5 ³ / ₄ | 15 | 9 ¹ / ₄ | 45.0 |
| 8 | 7 ¹ / ₁₆ | 19 ¹ / ₂ | 11 ¹³ / ₁₆ | 119.0 |
| 10 | 8 | 22 ¹ / ₂ | 14 ¹ / ₂ | 182.0 |
| 12 | 10 ¹ / ₈ | 27 | 16 ⁷ / ₈ | 295.0 |
| 15 | 10 ³ / ₄ | 31 ¹ / ₂ | 22 | 384.8 |



PART NO. XH 143

Reducer

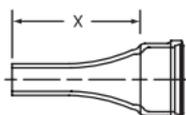
| Size | X | Weight |
|---------|-------------------------------|--------|
| 3 x 2 | 4 ³ / ₄ | 6.0 |
| 4 x 2 | 5 | 7.0 |
| 4 x 3 | 5 | 8.9 |
| 5 x 3 | 5 | 11.0 |
| 5 x 4 | 5 | 11.0 |
| 6 x 3 | 5 | 12.0 |
| 6 x 4 | 5 | 12.2 |
| 6 x 5 | 5 | 12.6 |
| 8 x 4 | 6 | 19.1 |
| 8 x 5 | 6 | 19.5 |
| 8 x 6 | 6 | 19.0 |
| 10 x 4 | 6 | 28.0 |
| 10 x 6 | 6 | 30.0 |
| 10 x 8 | 6 | 35.0 |
| 12 x 4 | 6 ¹ / ₂ | 36.8 |
| 12 x 6 | 6 ¹ / ₂ | 46.0 |
| 12 x 8 | 6 ¹ / ₂ | 43.0 |
| 12 x 10 | 6 ¹ / ₂ | 50.0 |
| 15 x 8 | 6 ¹ / ₂ | 55.5 |
| 15 x 10 | 6 ¹ / ₂ | 57.0 |
| 15 x 12 | 6 ¹ / ₂ | 62.0 |



PART NO. XH 144

Reducer Increaser

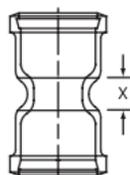
| Size | X | Weight |
|-------|----|--------|
| 4 x 6 | 9 | 15.8 |
| 6 x 8 | 12 | 33.8 |



PART NO. XH 153

Double Hub Fitting

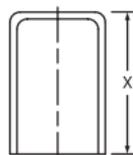
| Size | X | Weight |
|------|-------|--------|
| 2 | 1 1/4 | 5.0 |
| 4 | 1 1/2 | 9.4 |
| 5 | 1 1/2 | 12.0 |
| 6 | 1 1/2 | 14.0 |
| 8 | 1 1/2 | 28.0 |
| 10 | 1 1/2 | 43.0 |
| 12 | 1 1/2 | 54.0 |
| 15 | 1 1/2 | 80.0 |



PART NO. XH 155

Pipe Plug

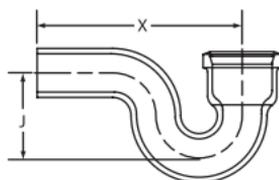
| Size | X | Weight |
|------|-------|--------|
| 2 | 3 1/2 | 1.4 |
| 4 | 4 | 4.7 |
| 6 | 4 | 8.0 |
| 8 | 4 1/2 | 15.0 |
| 10 | 4 1/2 | 29.0 |
| 12 | 5 1/4 | 32.0 |
| 15 | 5 1/4 | 44.0 |



PART NO. XH 169

"P" Trap

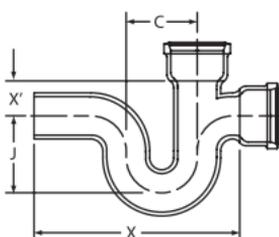
| Size | J | X | Weight |
|------|-----|-------------------|--------|
| 2 | 4 | 9½ | 7.9 |
| 3 | 5½ | 12 | 17.2 |
| 4 | 6½ | 14 | 27.2 |
| 6 | 8½ | 17 | 45.2 |
| 8 | 10½ | 22½ ₁₆ | 120.0 |



PART NO. XH 174

Running Trap with Single Hub Vent

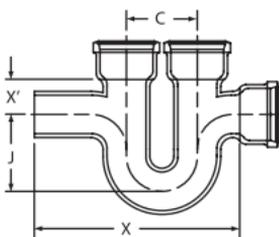
| Size | Vent Size | C | J | X | X' | Weight |
|------|-----------|---|----|-----|----|--------|
| 3 | 3 | 5 | 5½ | 15 | 2½ | 22.8 |
| 4 | 4 | 6 | 6½ | 17½ | 3 | 35.6 |
| 5 | 4 | 7 | 7½ | 19½ | 3½ | 46.0 |
| 6 | 4 | 8 | 8½ | 21½ | 4 | 59.0 |



PART NO. XH 175

Running Trap with Double Hub Vent

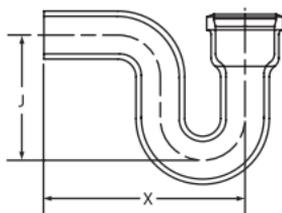
| Size | Vent Size | C | J | X | X' | Weight |
|------|-----------|----|----|--------------------------------|----|--------|
| 3 | 3 | 5 | 5½ | 15 | 2½ | 30.0 |
| 4 | 4 | 6 | 6½ | 17½ | 3 | 37.4 |
| 5 | 4 | 7 | 7½ | 19½ | 3½ | 50.0 |
| 6 | 4 | 8 | 8½ | 21½ | 4 | 65.5 |
| 6 | 6 | 8 | 8½ | 21½ | 4 | 71.0 |
| 8 | 4 | 10 | 11 | 27 ⁵ / ₈ | 5¼ | 127.0 |
| 8 | 6 | 10 | 11 | 27 ⁵ / ₈ | 5¼ | 119.6 |
| 10 | 8 | 12 | 13 | 31 ⁵ / ₈ | 6¼ | 193.0 |
| 12 | 6 | 15 | 15 | 38¾ | 7¼ | 274.0 |



PART NO. XH 180

Deep Seal "P" Trap

| Size | X | J | Weight |
|------|----|---|--------|
| 2 | 9½ | 6 | 9.8 |
| 3 | 12 | 7 | 20.3 |
| 4 | 14 | 8 | 29.0 |

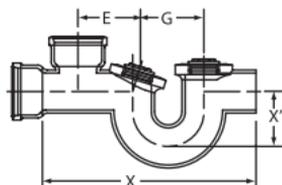


EXTRA HEAVY

PART NO. XH 184^(T)

Improved Running Trap with Double Cleanout and Tee Branch

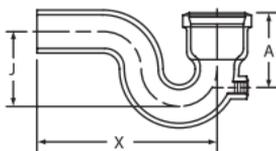
| Size | Vent Size | E | G | X | X' | Weight |
|------|-----------|----|----|-----|----|--------|
| 4 | 3 | 5¼ | 6¼ | 20½ | 5½ | 41.8 |
| 4 | 4 | 5⅜ | 6¼ | 20½ | 5½ | 42.9 |



PART NO. XH 198

"P" Trap with ½" Heel Tap

| Size | X | J | A | Weight |
|------|----|----|----|--------|
| 2 | 9½ | 4 | 4 | 9.0 |
| 3 | 12 | 5½ | 4⅜ | 17.0 |
| 4 | 14 | 6½ | 4⅝ | 27.0 |



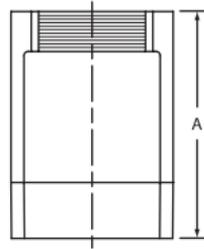
^(T) Note: 3½" IPS tap

PART NO. XH 230

**Iron Body Cleanout,
Body Only, Less Brass Plug**

and PART NO. XH 230S

**Iron Body Cleanout, with Southern
Raised-Head Brass Plug Installed**

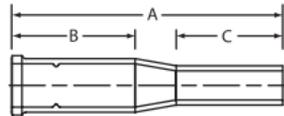


| Size | Tap Size | A | Weight |
|------|----------|----|--------|
| 2* | 1½ | 3½ | 1.7 |
| 3* | 2½ | 3¾ | 3.2 |
| 4 | 3½ | 4¼ | 4.3 |
| 5* | 4 | 4¼ | 6.5 |
| 6 | 5 | 4¼ | 6.6 |
| 8 | 6 | 4½ | 13.1 |
| 10 | 6 | 4½ | 21.0 |
| 12 | 6 | 5¼ | 38.0 |
| 15 | 6 | 5¼ | 52.8 |

PART NO. XH 253

Sission Insertable Joint

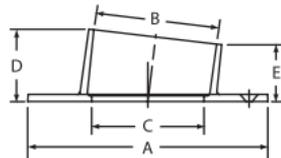
| Size | A | B | C | Weight |
|------|-----|----|---|--------|
| 4 | 14½ | 7 | 6 | 17.1 |
| 6 | 16¾ | 8½ | 6 | 26.2 |



PART NO. XH 549

Roof Iron

| Size | A | B | C | D | E | Weight |
|------|---------------------------------|-------------------------------|---------------------------------|--------------------------------|----|--------|
| 4 | 10 ⁷ / ₁₆ | 5 ³ / ₈ | 4 ¹³ / ₁₆ | 3 ³ / ₁₆ | 2½ | 8.2 |



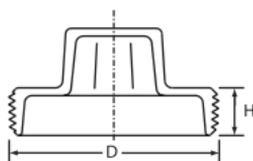
* This size available only as XH 230S with plug.

Plugs

PART NO. PLG 410

Ohio Code Brass Plug

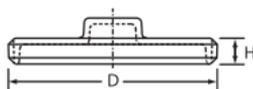
| Size | D | H | Weight |
|------|--------------|------------|--------|
| 10 | $10^{23/32}$ | $2^{1/32}$ | 10.6 |



PART NO. PLG 430

Southern Code Brass Plug

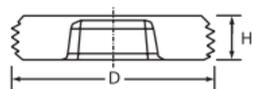
| Size | D | H | Weight |
|-------|-------------|---------|--------|
| 1 1/2 | $1^{57/64}$ | $49/64$ | 0.2 |
| 2 | $2^{23/64}$ | $49/64$ | 0.3 |
| 2 1/2 | $2^{55/64}$ | $51/64$ | 0.4 |
| 3 | $3^{15/32}$ | $57/64$ | 0.6 |
| 3 1/2 | $3^{63/64}$ | $57/64$ | 0.7 |
| 4 | $4^{31/64}$ | $61/64$ | 1.1 |
| 5 | $5^{35/64}$ | $61/64$ | 1.5 |
| 6 | $6^{19/32}$ | $17/32$ | 2.5 |
| 8 | $8^{39/64}$ | $19/32$ | 4.0 |



PART NO. PLG 440

Southern Code Countersunk Brass Plug

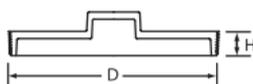
| Size | D | H | Weight |
|-------|-------------|---------|--------|
| 1 1/2 | $1^{57/64}$ | $13/32$ | 0.2 |
| 2 | $2^{23/64}$ | $7/16$ | 0.3 |
| 3 | $3^{15/32}$ | $33/64$ | 0.6 |
| 3 1/2 | $3^{63/64}$ | $33/64$ | 0.8 |
| 4 | $4^{31/64}$ | $35/64$ | 0.9 |
| 5 | $5^{35/64}$ | $11/16$ | 1.7 |
| 6 | $6^{19/32}$ | $11/16$ | 2.3 |



PART NO. PLG 450

Cast Iron Plug

| Size | D | H | Weight |
|------|--------------|-------------|--------|
| 6 | $6^{35/64}$ | $1^{17/64}$ | 4.2 |
| 10 | $10^{39/64}$ | $1^{31/32}$ | 9.0 |



CHARLOTTE

PIPE AND FOUNDRY COMPANY®

This is to verify that products manufactured by Charlotte Pipe and Foundry, Cast Iron Division, are manufactured in the United States and conform to the following standards:

SERVICE HUB AND SPIGOT PIPE AND FITTINGS

All cast iron soil pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute (CISPI).

ASTM A 74

Listed by NSF® International to the UP Code

ISO 9001:2015 Certified

EXTRA HEAVY HUB AND SPIGOT PIPE AND FITTINGS

All cast iron soil pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute (CISPI).

ASTM A 74

Listed by NSF® International to the UP Code

ISO 9001:2015 Certified

HUBLESS PIPE AND FITTINGS

All cast iron soil pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute (CISPI).

CISPI Standard 301

ASTM A 888

Listed by NSF® International to the UP Code

ISO 9001:2015 Certified

HUBLESS COUPLINGS

CISPI Standard 310

ASTM C 1277

Certified by NSF® International

HUBLESS HEAVY DUTY COUPLINGS

Meets ASTM C 1540

COMPRESSION GASKETS

ASTM C 564

CISPI HSN 85



LIMITED WARRANTY

Charlotte Pipe and Foundry Company® (Charlotte Pipe®) Products are warranted to be free from manufacturing defects and to conform to currently applicable ASTM standards for a period of five (5) years from date of delivery. Buyer's remedy for breach of this warranty is limited to replacement of, or credit for, the defective product. This warranty excludes any expense for removal or reinstallation of any defective product and any other incidental, consequential, or punitive damages. **This limited warranty is the only warranty made by seller and is expressly in lieu of all other warranties, express and implied, including any warranties of merchantability and fitness for a particular purpose.** No statement, conduct or description by Charlotte Pipe or its representative, in addition to or beyond this Limited Warranty, shall constitute a warranty. This Limited Warranty may only be modified in writing signed by an officer of Charlotte Pipe.

This Limited Warranty will not apply if:

- 1) The Products are used for purposes other than their intended purpose as defined by local plumbing and building codes, and the applicable ASTM standard.
- 2) The Products are not installed in good and workmanlike manner consistent with normal industry standards; installed in compliance with the latest instructions published by Charlotte Pipe and good plumbing practices; and installed in conformance with all applicable plumbing, fire and building code requirements.
- 3) This limited warranty does not apply when the products of Charlotte Pipe are used with the products of other manufacturers that do not meet the applicable ASTM or CISPI standards or that are not marked in a manner to indicate the entity that manufactured them.
- 4) In hubless cast iron installations, this warranty will not apply if products are joined with unshielded hubless couplings. Charlotte Pipe requires that its hubless cast iron pipe and fittings be joined only with shielded hubless couplings manufactured in accordance with CISPI 310, ASTM C 1277 and certified by NSF® International or with Heavy Duty Couplings meeting ASTM C 1540.
- 5) The Products fail due to defects or deficiencies in design, engineering, or installation of the piping system of which they are a part.
- 6) The Products have been the subject of modification; misuse; misapplication; improper maintenance or repair; damage caused by the fault or negligence of anyone other than Charlotte Pipe; or any other act or event beyond the control of Charlotte Pipe.
- 7) The Products fail due to the freezing of water in the Products.
- 8) The Products fail due to contact with chemical agents, fire stopping materials, thread sealant, plasticized vinyl products, or other aggressive chemical agents that are not compatible.
- 9) Pipe outlets, sound attenuation systems or other devices are permanently attached to the surface of Charlotte® PVC, ABS or CPVC products with solvent cement or adhesive glue.

Charlotte Pipe products are manufactured to the applicable ASTM or CISPI standard. Charlotte Pipe and Foundry **cannot** accept responsibility for the performance, dimensional accuracy, or compatibility of pipe, fittings, gaskets, or couplings not manufactured or sold by Charlotte Pipe and Foundry.

This Limited Warranty will not apply unless written notice of a claim is mailed to Charlotte Pipe at the address below within 30 days of discovery of the allegedly defective product.

Any Charlotte Pipe products alleged to be defective **must** be made available to Charlotte Pipe at the following address for verification, inspection and determination of cause:

Charlotte Pipe and Foundry Company
Attention: Technical Services
2109 Randolph Road
Charlotte, North Carolina 28207

Purchaser must obtain a return materials authorization and instructions for return shipment to Charlotte Pipe of any product claimed defective or shipped in error.

Any Charlotte Pipe product **proved** to be defective in manufacture will be replaced F.O.B. point of original delivery, or credit will be issued, at the discretion of Charlotte Pipe.

4/20/21

Charlotte and Charlotte Pipe are registered trademarks of Charlotte Pipe and Foundry Company.

CHARLOTTE

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