

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 September 14, 2011]

You can't beat the system.®

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Cast Iron Pipe and Fitting Dimensions

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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

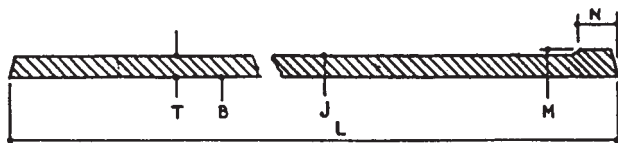


TABLE 1
DIMENSIONS AND TOLERANCES (IN INCHES) OF SPIGOTS
AND BARRELS FOR NO-HUB PIPE AND FITTINGS

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	1922	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 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. SD 4

Heavy Duty 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
12	5.50"	6
15	5.50"	6



PART NO. NH 2



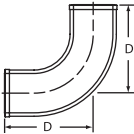
No-Hub Pipe - Ten Feet Laying Length

Size	Weight
1½" x 10'	28.5
2" x 10'	37.1
3" x 10'	54.0
4" x 10'	71.2
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

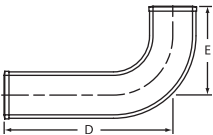
Quarter Bend

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	13.4
8	8½	23.1
4 x 3	5½	5.5



Long Quarter Bend

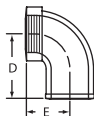
Size	D	E	Weight
2 x 12	12	4½	5.4
2 x 18	18	4½	8.8
2 x 24	24	4½	10.7
3 x 12	12	5	8.5
4 x 12	12	5½	11.2



PART NO. NH 4A

Tapped Quarter Bend

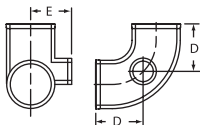
Size	D	E	Weight
1½ x 1½	3	2	1.9
2 x 1¼	3¼	2¼	2.0
2 x 1½	3¼	2¼	1.8
2 x 2	3¼	2¼	2.9



PART NO. NH 6

Quarter Bend with Side Opening

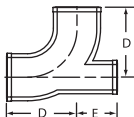
Size	E	D	Weight
3 x 2	3¼	4	5.1
4 x 2	3¾	4⅝	7.5



PART NO. NH 8

Quarter Bend with Heel Opening

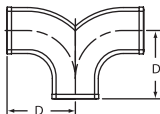
Size	D	E	Weight
3 x 2	5	2⅞	5.6
4 x 2	5½	3¼	7.2



PART NO. NH 8A

Double Quarter Bend

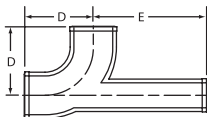
Size	D	Weight
2	4½	4.5
3	5	7.1
4	5½	9.7



PART NO. NH 8B

Extended Quarter Bend with Low Heel Outlet

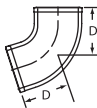
Size	D	E	Weight
3 x 2	5	10 1/2	7.8



PART NO. NH 9

Fifth Bend

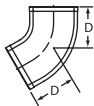
Size	D	Weight
2	3 11/16	2.3
3	4 1/16	3.7
4	4 7/16	6.1



PART NO. NH 10

Sixth Bend

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

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	16.0
10	5 15/16	31.7
12	6 9/16	31.6
15	7 13/16	62.0

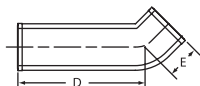


Shading indicates new part.

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

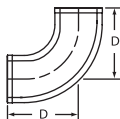
Size	D	Weight
1 ¹ / ₂	2 ¹ / ₈	1.2
2	2 ¹ / ₈	1.4
3	2 ¹ / ₄	2.1
4	2 ⁵ / ₁₆	3.4
5	2 ⁷ / ₈	5.4
6	3	6.7
8	3 ³ / ₄	12.0



PART NO. NH 16

Short Sweep

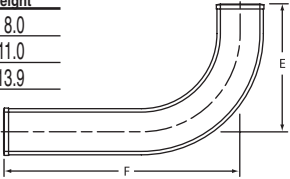
Size	D	Weight
2	6 ¹ / ₂	3.1
3	7	6.3
4	7 ¹ / ₂	8.1
5	8 ¹ / ₂	13.1
6	9	17.1
8	10 ¹ / ₂	31.0
10	12	53.4
12	13 ¹ / ₄	61.3
15	14 ³ / ₄	105.6



PART NO. EZS 14

Extended Short Sweep

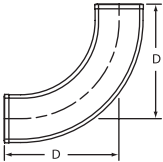
Size	E	F	Weight
2 x 18	6½	18	8.0
2 x 24	6½	24	11.0
2 x 34	6½	34	13.9



PART NO. NH 18

Long Sweep

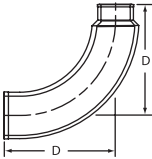
Size	D	Weight
1½	9¼	4.4
2	9½	5.8
3	10	9.4
4	10½	12.3
5	11½	18.6
6	12	23.3



PART NO. NH 18

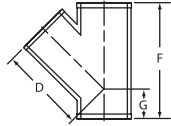
Reducing Long Sweep

Size	D	Weight
4 x 3	10½	12.4



PART NO. NH 20

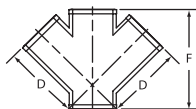
Size	Wye			Weight
	D	F	G	
1½ x 1½	4	6	2	2.5
2 x 2	4 ⁵ / ₈	6 ⁵ / ₈	2	3.3
3 x 1½	4 ⁵ / ₈	6 ¹ / ₈	1 ¹⁵ / ₁₆	4.4
3 x 2	5 ⁵ / ₁₆	6 ⁵ / ₈	1½	3.4
3	5¾	8	2¼	5.1
4 x 2	6	6 ⁵ / ₈	1	5.1
4 x 3	6½	8	1 ¹¹ / ₁₆	7.3
4	7 ¹ / ₁₆	9½	2 ⁷ / ₁₆	9.1
5 x 2	7½	8 ¹ / ₁₆	1 ⁵ / ₁₆	8.8
5 x 3	8	9 ¹¹ / ₁₆	1 ¹¹ / ₁₆	10.5
5 x 4	8½	11 ³ / ₁₆	2 ⁷ / ₁₆	13.1
5	9½	12 ⁵ / ₈	3 ¹ / ₈	15.1
6 x 2	8¼	8 ⁵ / ₁₆	½	9.8
6 x 3	8¾	9¾	1¼	12.5
6 x 4	9¼	11 ³ / ₁₆	1 ¹⁵ / ₁₆	14.6
6 x 5	10¼	12½	2 ⁹ / ₁₆	17.6
6	10¾	14 ¹ / ₁₆	3 ⁵ / ₁₆	19.7
8 x 3	9 ¹³ / ₁₆	9 ¹⁵ / ₁₆	⅛	17.5
8 x 4	10 ³ / ₈	11 ⁷ / ₁₆	1 ⁵ / ₁₆	22.0
8 x 5	11 ³ / ₈	12 ¹³ / ₁₆	1 ⁵ / ₈	23.9
8 x 6	11 ¹³ / ₁₆	14 ³ / ₁₆	2 ⁵ / ₁₆	28.3
8	13 ³ / ₈	17 ¹ / ₈	3¾	36.3
10 x 4	11 ¹¹ / ₁₆	12 ⁵ / ₈	¾	32.9
10 x 6	13 ¹ / ₈	15 ⁷ / ₁₆	2 ³ / ₁₆	42.1
10 x 8	14 ¹¹ / ₁₆	18 ³ / ₈	3 ⁵ / ₈	56.1
10	16½	21½	5 ¹ / ₁₆	74.9
12	19¾	25½	5¾	97.0
15	23¼	30	6¾	189.5



PART NO. NH 21

Double Wye

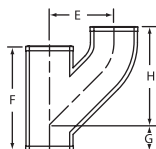
Size	D	F	Weight
2	4 ⁵ / ₈	6 ⁵ / ₈	4.5
3 x 2	5 ⁵ / ₁₆	6 ⁵ / ₈	5.5
3	5 ³ / ₄	8	7.9
4 x 2	6	6 ⁵ / ₈	6.5
4 x 3	6 ¹ / ₂	8	8.8
4	7 ¹ / ₁₆	9 ¹ / ₂	12.1
5 x 4	8 ¹ / ₂	11 ³ / ₁₆	15.7
6 x 4	9 ¹ / ₄	11 ³ / ₁₆	16.4
6	10 ³ / ₄	14 ¹ / ₁₆	27.4
8	13 ³ / ₈	17 ¹ / ₈	45.3
8 x 4	10 ³ / ₈	11 ⁷ / ₁₆	23.0
8 x 6	11 ¹³ / ₁₆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

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PART NO. NH 21A

Upright Wye

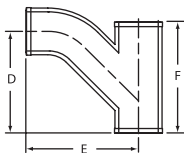
Size	H	E	F	G	Weight
2	8 ¹ / ₄	5 ¹ / ₂	7	2	4.8
3 x 2	8 ³ / ₁₆	5 ¹ / ₂	7	1 ¹ / ₂	5.7
3	8 ⁷ / ₁₆	5 ¹ / ₂	8 ³ / ₈	2 ³ / ₁₆	9.5
4 x 2	8 ¹ / ₄	5 ¹ / ₂	7	1	7.7
4 x 3	8 ⁷ / ₁₆	5 ¹ / ₂	8 ³ / ₈	1 ¹¹ / ₁₆	10.1
4	9 ¹ / ₈	6	9 ³ / ₄	2 ⁷ / ₁₆	12.9
5 x 2	9	6 ¹ / ₈	8	1	11.0
5	11 ⁷ / ₁₆	7 ¹ / ₈	12 ³ / ₄	2 ³ / ₄	19.9



PART NO. NH 22

Combination

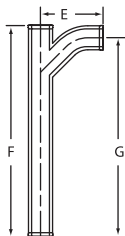
Size	D	E	F	Weight
1 1/2	4 3/4	5 3/8	6	3.1
2 x 1 1/2	5	5 7/8	6	3.4
2	5 3/8	6 1/8	6 5/8	3.5
3 x 1 1/2	5 1/2	6 3/4	6 5/8	5.0
3 x 2	5 1/2	6 3/4	6 5/8	5.7
3	7 5/16	8	8	8.5
4 x 2	5 1/2	7 1/4	6 5/8	6.6
4 x 3	7 1/4	8 1/2	8	9.5
4	9 1/4	10	9 1/2	14.3
5 x 2	5 15/16	7 3/4	8 1/16	8.5
5 x 3	7 3/4	9	9 11/16	12.0
5 x 4	9 3/4	10 1/2	11 3/16	17.1
5	11 3/4	12 1/2	12 5/8	19.7
6 x 2	6	8 1/4	8 5/16	12.0
6 x 3	7 13/16	9 1/2	9 3/4	14.7
6 x 4	9 3/4	11	11 3/16	18.4
6 x 5	11 11/16	13	12 1/2	23.4
6	13 5/8	14 3/8	14 1/16	30.0
8 x 4	9 7/16	11 5/16	11 3/16	25.1
8 x 6	12	13 3/8	13 15/16	35.4
8	14 3/4	15 9/16	16 15/16	49.3



PART NO. EZS 15

Extended Combination

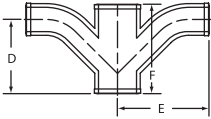
Size	E	F	G	Weight
2 x 24	6 3/16	25 3/8	24	12.0
2 x 36	6 3/16	36	34 3/4	15.4



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

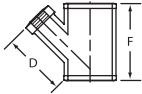


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PART NO. NH 26

Tapped Wye

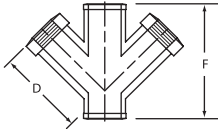
Size	D	F	Weight
2 x 1 ¹ / ₂	5 ¹ / ₁₆	6 ⁵ / ₈	3.4
2 x 2	5 ¹ / ₁₆	6 ⁵ / ₈	4.6
3 x 1 ¹ / ₂	5 ³ / ₄	6 ⁵ / ₈	5.1
3 x 2	5 ¹³ / ₁₆	6 ⁵ / ₈	5.3
4 x 1 ¹ / ₂	6 ⁷ / ₁₆	6 ⁵ / ₈	6.0
4 x 2	6 ¹ / ₂	6 ⁵ / ₈	7.2



PART NO. NH 27

Tapped Double Wye

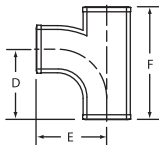
Size	D	F	Weight
2 x 1 ¹ / ₂	5 ¹ / ₁₆	6 ⁵ / ₈	5.6



PART NO. NH 28

Sanitary Tee

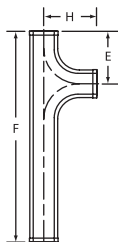
Size	E	F	D	Weight
1 1/2 x 1 1/2	4 1/4	6 1/2	4 1/4	2.9
2 x 1 1/2	4 1/2	6 5/8	4 1/4	3.4
2	4 1/2	6 7/8	4 1/2	3.1
3 x 1 1/2	5	6 1/2	4 1/4	4.5
3 x 2	5	6 7/8	4 1/2	3.7
3	5	8	5	5.5
4 x 2	5 1/2	6 7/8	4 1/2	5.3
4 x 3	5 1/2	8	5	7.6
4	5 1/2	9 1/8	5 1/2	8.5
5 x 2	6 1/2	8 1/2	5	8.3
5 x 3	6	9 5/16	5 1/2	10.2
5 x 4	6	10 13/32	6	11.5
5	6 1/2	11 7/16	6 1/2	12.5
6 x 2	6 1/2	8 3/16	5	9.9
6 x 3	6 1/2	9 3/16	5 1/2	11.5
6 x 4	6 1/2	10 1/16	6	12.0
6 x 5	7	11 1/2	6 1/2	15.6
6	7	12 1/2	7	12.9
8 x 3	7 1/2	10 3/8	6	17.9
8 x 4	7 1/2	11 1/2	6 1/2	21.6
8 x 5	8	12 1/2	7	24.0
8 x 6	8	13 1/2	7 1/2	24.0
8	8 1/2	15 1/2	8 1/2	30.8



PART NO. EZS 16

2" x 24" Two-Way Sanitary Tee

Size	E	H	F	Weight
2 x 18	4 1/2	4 1/2	18	7.8
2 x 24	4 1/2	4 1/2	24	10.4



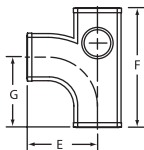
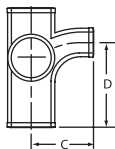
PART NO. NH 30
Sanitary Cross

Size	E	F	D	Weight
1½	4¼	6½	4½	3.6
2	4½	6⅞	4½	5.0
3 x 2	5	6⅞	4½	6.2
3	5	8	5	7.6
4 x 2	5½	6⅞	4½	7.3
4 x 3	5½	8	5	8.5
4	5½	9⅛	5½	11.0
5 x 4	6	10⅓ ₃₂	6	13.4
6 x 4	6½	10⅓ ₁₆	6	14.0
6	7	12½	7	21.0
8 x 4	7½	11½	6½	23.0
8	8½	15½	8½	37.9


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PART NO. NH 31
**Sanitary Tee with 2" 90° Sanitary
Opening Above Center
(New Orleans Code)**

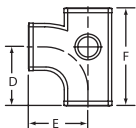
Size	C	D	E	F	G	Weight
3 (L)	4½	6	5	8½	5	6.7
3 (R)	4½	6	5	8½	5	6.3
4 (L)	5	6½	5½	9⅓ ₁₆	5½	8.6
4 (R)	5	6½	5½	9⅓ ₁₆	5½	8.5



RIGHT INLET

PART NO. NH 32
**Sanitary Tee with 2" Side Inlets
Right Hand and Left Hand**

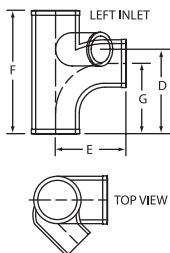
Size	E	F	D	Weight
4 x 4 w/RH & LH	5⅞ ₁₆	9⅛	5½	10.9



PART NO. NH 32B

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

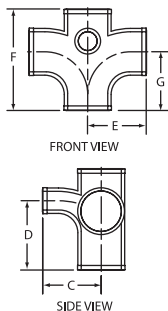
Size	D	E	F	G	Weight
3 (L)	6	5	8 $\frac{1}{2}$	5	8.2
3 (R)	6	5	8 $\frac{1}{2}$	5	7.8
3 (R&L)	6	5	8 $\frac{1}{2}$	5	9.1
4 (L)	6 $\frac{1}{2}$	5 $\frac{1}{2}$	9 $\frac{3}{16}$	5 $\frac{1}{2}$	9.6
4 (R)	6 $\frac{1}{2}$	5 $\frac{1}{2}$	9 $\frac{3}{16}$	5 $\frac{1}{2}$	9.4



PART NO. NH 33A

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

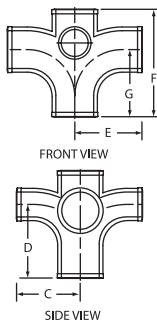
Size	C	D	E	F	G	Weight
4	5	6 $\frac{1}{2}$	5 $\frac{1}{2}$	9 $\frac{3}{16}$	5 $\frac{1}{2}$	10.8



PART NO. NH 33C

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

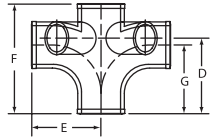
Size	C	D	E	F	G	Weight
3	4 $\frac{1}{2}$	6	5	8 $\frac{1}{2}$	5	9.0
4	5	6 $\frac{1}{2}$	5 $\frac{1}{2}$	9 $\frac{3}{16}$	5 $\frac{1}{2}$	11.9



PART NO. NH 33F

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

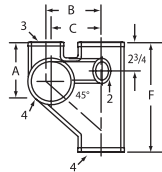
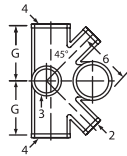
Size	D	E	F	G	Weight
3	6	5	8	5	9.8
4	5½	5½	9⅛	5½	13.8



PART NO. NH 33G

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

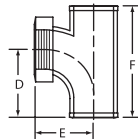
Size	A	B	C	F	G	Weight
4x3x4x2x2	3¾	5¼	4¾	10½	6½	24.0



PART NO. NH 34

Sanitary Tapped Tee

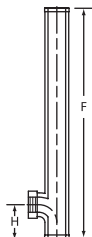
Size	D	E	F	Weight
1½ x 1¼	3¼	2⅞	5⅛	2.3
1½ x 1½	3¼	2⅞	5⅛	2.5
2 x 1¼	3¼	2⅞	5⅛	2.8
2 x 1½	3¼	2⅞	5⅛	2.8
2 x 2	3¾	3⅛	6⅜	3.8
3 x 1¼	3¼	3⅝	5⅛	3.7
3 x 1½	3¼	3⅝	5⅛	3.6
3 x 2	3¾	3⅞	6⅜	4.9
3 x 3	4⅞	4⅛	8	7.3
4 x 1¼	3¼	3⅞	5⅛	4.0
4 x 1½	3¼	3¾	5⅛	4.8
4 x 2	3¾	4⅛	6⅜	5.8
4 x 3	4½	4⅜	8	8.4
5 x 1½	3¾	4⅝	7⅜	6.5
5 x 2	4¼	4⅞	8	9.3
6 x 1½	3¾	4⅞	6¾	8.4
6 x 2	4¼	5⅛	7⅞	9.2



PART NO. EZS 17

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

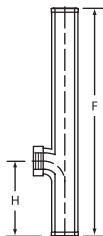
Size	H	F	Weight
2 x 1 ¹ / ₂ x 22 ⁷ / ₈	3 ¹ / ₄	22 ⁷ / ₈	9.6
2 x 2 x 22 ⁷ / ₈	3 ³ / ₄	22 ⁷ / ₈	9.2



PART NO. EZS 27

Sanitary Tapped Tee

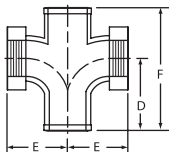
Size	H	F	Weight
2 x 1 ¹ / ₂ x 31	11 ¹ / ₄	31	12.6
2 x 2 x 31	11 ¹ / ₄	31	13.6



PART NO. NH 35

Sanitary Tapped Cross

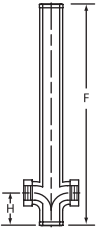
Size	D	E	F	Weight
1 ¹ / ₂ x 1 ¹ / ₂	3 ¹ / ₄	2 ⁹ / ₁₆	5 ¹¹ / ₁₆	3.4
2 x 1 ¹ / ₄	3 ¹ / ₄	2 ¹³ / ₁₆	5 ¹¹ / ₁₆	3.9
2 x 1 ¹ / ₂	3 ¹ / ₄	2 ¹³ / ₁₆	5 ¹¹ / ₁₆	4.0
2 x 2	3 ³ / ₄	3 ¹ / ₁₆	6 ³ / ₈	5.3
3 x 1 ¹ / ₂	3 ¹ / ₄	3 ⁵ / ₁₆	5 ¹¹ / ₁₆	4.3
3 x 2	3 ³ / ₄	3 ⁹ / ₁₆	6 ³ / ₈	6.1
4 x 1 ¹ / ₂	3 ¹ / ₄	3 ³ / ₄	5 ¹¹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

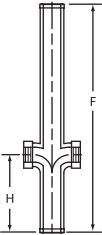
Size	H	F	Weight
2 x 1 ¹ / ₂ x 22 ⁷ / ₈	3 ¹ / ₄	22 ⁷ / ₈	10.0
2 x 2 x 22 ⁷ / ₈	3 ³ / ₄	22 ⁷ / ₈	11.9



PART NO. EZS 28

Sanitary Tapped Cross

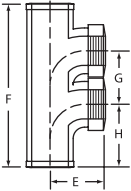
Size	H	F	Weight
2 x 1 ¹ / ₂ x 31	11 ¹ / ₄	31	15.0
2 x 2 x 31	11 ¹ / ₄	31	15.0



PART NO. NH 35B

**Double Vertical Sanitary
Tapped Tee**

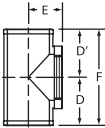
Size	E	F	G	H	Weight
2 x 1 ¹ / ₂	2 ¹³ / ₁₆	9 ³ / ₄	4 ¹ / ₂	3 ¹ / ₄	4.8



PART NO. NH 36

Test Tee Less Plug

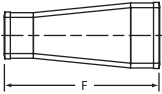
Size	IPS Tap	E	F	D	D'	Weight
2	2	2	6 ³ / ₈	3 ³ / ₁₆	3 ³ / ₁₆	3.0
3	3	2 ¹¹ / ₁₆	7 ³ / ₄	3 ⁷ / ₈	3 ⁷ / ₈	5.8
4	4	3	8 ⁷ / ₈	4 ⁷ / ₁₆	4 ⁷ / ₁₆	9.2
5	5	4 ¹ / ₂	11 ¹ / ₂	5 ³ / ₄	5 ³ / ₄	15.2
6	6	5	12 ¹ / ₂	6 ¹ / ₄	6 ¹ / ₄	22.0
8	8	6	15 ¹ / ₄	7 ⁵ / ₈	7 ⁵ / ₈	32.4
10	10	6 ¹ / ₂	20	10	10	55.1
4 x 3	3 ¹ / ₂	2 ⁷ / ₈	9 ¹ / ₂	5	4 ¹ / ₂	8.0



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	3⅝	1.1
3 x 1½	3⅝	1.8
3 x 2	3⅝	1.8
4 x 2	3⅝	2.3
4 x 3	3⅝	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

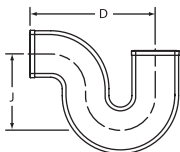


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PART NO. NH 42

P-Trap

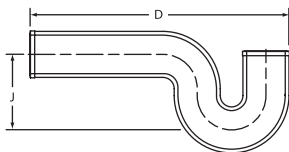
Size	D	J	Weight
1½	6¾	3½	3.4
2	7½	4	4.7
3	9	5½	8.9
4	10½	6½	17.0
6	14	8½	33.6



PART NO. NH 42

Long P-Trap

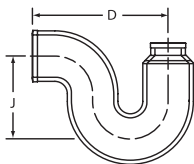
Size	D	J	Weight
2 x 12	12	4	6.1
2 x 18	18	4	8.0



PART NO. NH 42A

P-Trap, Reducing

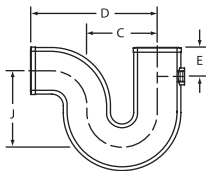
Size	D	J	Weight
3 x 2	9	5½	10.0



PART NO. NH 43

P Trap with ½" Tap in Heel

Size	C	D	E	J	Weight
2	4	7½	2	4	4.7
3	5	9	2	5½	10.8
4	6	10½	2	6½	15.4

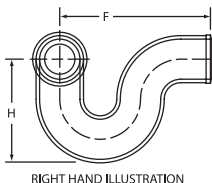


Shading indicates new part.

PART NO. EZS 9

P-Trap with 1½" Tapped Side Inlet

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

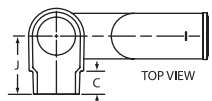


RIGHT HAND ILLUSTRATION

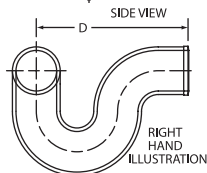
PART NO. EZS 10

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

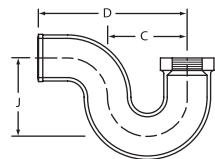


RIGHT HAND ILLUSTRATION

PART NO. NH 44

P-Trap with Tapped Inlet

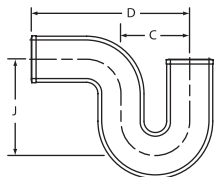
Size	C	D	J	Weight
1½ x 1½	3 ¹ / ₂	6 ³ / ₄	3 ¹ / ₂	3.0
2 x 1½	4	7 ¹ / ₂	4	4.5
2 x 2	4	7 ¹ / ₂	4	5.4



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

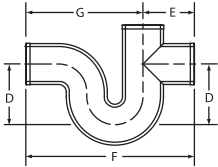


Shading indicates new part.

PART NO. NH 45

Running Trap with Vent

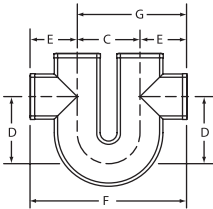
Size	D	E	F	G	Weight
4	6½	4½	15	10½	20.5



PART NO. NH 45A

Running Trap with Double Vent

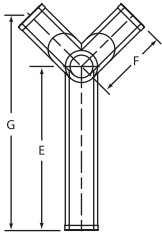
Size	C	D	E	F	G	Weight
4	6	6½	4½	15	10½	21.4



PART NO. EZS 13

45° Vented Tub Wye

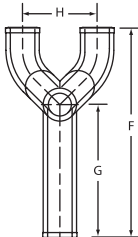
Size	E	F	G	Weight
2	12	5¼	15¾	10.1



PART NO. EZS 38

Vented Tub Wye

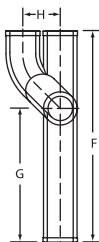
Size	G	H	F	Weight
2	9½	5¼	15	9.4
2	24	5¼	29½	13.7



PART NO. EZS 38 L

Vented Tub Wye Left Hand

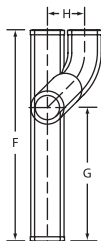
Size	G	H	F	Weight
2	9 ¹ / ₂	3 ³ / ₄	16	10.0



PART NO. EZS 38 R

Vented Tub Wye Right Hand

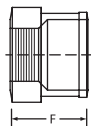
Size	G	H	F	Weight
2	9 ¹ / ₂	3 ³ / ₄	16	9.0



PART NO. NH 48

Tapped Adapters

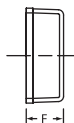
Size	F	IPS Tapping	Weight
1 ¹ / ₂ x 1 ¹ / ₂	2 ⁵ / ₈	1 ¹ / ₂	1.3
2 x 1 ¹ / ₄	2 ³ / ₁₆	1 ¹ / ₄	1.0
2 x 1 ¹ / ₂	2 ³ / ₁₆	1 ¹ / ₂	0.9
2 x 2	2 ⁵ / ₈	2	1.7
3 x 2	2 ³ / ₁₆	2	1.0



PART NO. NH 50

Blind Plug

Size	F	Weight
1½	1¾	0.6
2	1¾	0.7
3	1¾	1.2
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

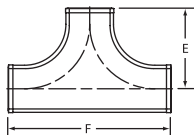
Size	F	IPS Tapping	Weight
2	2 ³ / ₁₆	1½	0.9
3	2 ³ / ₁₆	2½	1.9
4	2 ³ / ₁₆	3½	2.5
5	4½	4	6.5
6	4½	5	8.0
8	4½	6	12.1



PART NO. NH 53

Single Two-Way Cleanout

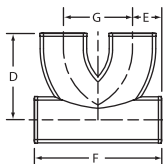
Size	E	F	Weight
4	7½	18 ³ / ₈	16.0



PART NO. NH 53A

Two-Way Cleanout

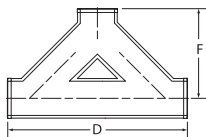
Size	D	E	F	G	Weight
4	8¼	2¾	12	6½	15.0



PART NO. NH 54

Two-Way Baffle Cleanout

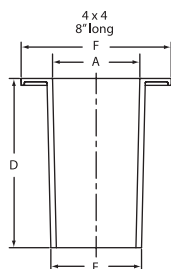
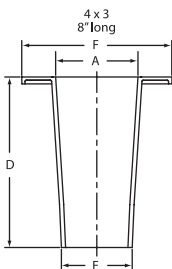
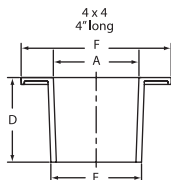
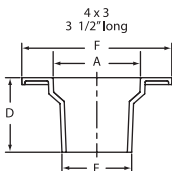
Size	D	F	Weight
3 x 3 x 4	15	9	14.2
4 x 3 x 4	19½	9½	24.0
4 x 4 x 4	18¾	9½	22.0



PART NO. NH 56

Notched and Slotted Closet Collar

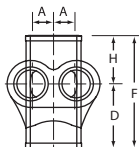
Size	D	E	F	A	Weight
4 x 3	3½	3	7¼	4 ⁷ / ₃₂	3.3
4 x 3	8	3 ²⁷ / ₆₄	7¼	4	6.1
4 x 4	4	4 ³ / ₈	7¼	4 ⁹ / ₆₄	4.7
4 x 4	8	4 ³ / ₈	7¼	4 ⁷ / ₃₂	7.0



PART NO. NH 57

Horizontal Twin Tapped Tee

Size	A	D	F	H	Weight
3 x 1½	1¾	4	7	3	7.3
4 x 1½	1¾	4	7	3	8.0

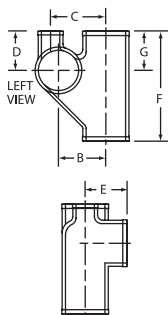


Shading indicates new part.

PART NO. NH 457

**Vented Closet Tee (Left or Right)
with 2" Top Vent**

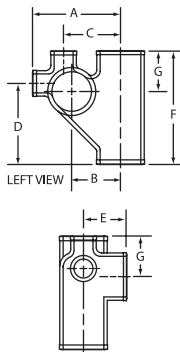
Size	B	C	D	E	F	G	Wt.
4x4x2x4(L)	4 1/4	5 1/4	3 3/4	4	10 1/2	3 3/4	12.1
4x4x2x4(R)	4 1/4	5 1/4	3 3/4	4	10 1/2	3 3/4	11.6



PART NO. NH 458

**Vented Closet Tee (Left or Right)
with 2" Top Vent and
2" Side Opening**

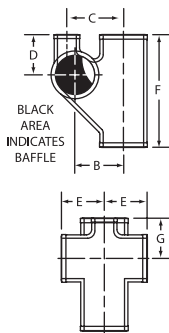
Size	A	B	C	D	E	F	G	Wt.
4x4x2x2x4(L)	8 1/8	4 1/4	5 1/4	7 1/2	4	10 1/2	3 3/4	12.3
4x4x2x2x4(R)	8 1/8	4 1/4	5 1/4	7 1/2	4	10 1/2	3 3/4	12.2



PART NO. NH 463

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

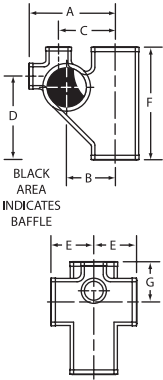
Size	B	C	D	E	F	G	Wt.
4x4x2x4x4	4 1/4	5 1/4	3 3/4	4	10 1/2	3 3/4	15.0



PART NO. NH 464

**Vented Closet Cross with 2" Top Vent
and 2" Side Opening**

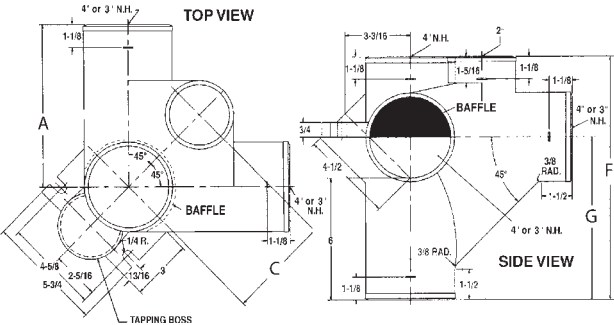
Size	A	B	C	D	E	F	G	Wt.
4x4x2x2x4x4	8 1/8	4 1/4	5 1/4	7 1/2	4	10 1/2	3 3/4	15.6



PART NO. NH 502

**4" No Hub Prison Fitting
with 2" Top Vent**

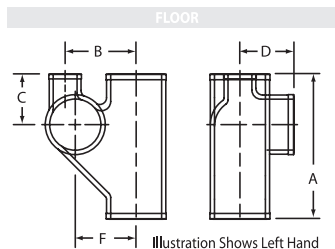
Part No.	Size	UPC# 611942-	A	C	F	G	Weight
NH 502	4 Less Tap	00639	8	5 1/4	12	8	20.3
NH 502	4 With Tap	00640	8	5 1/4	12	8	20.8
NH 502	4x3 Less Tap	11119	8	5 1/4	12	8	23.4
NH 502	4x3 With Tap	11120	8	5 1/4	12	8	23.4



PART NO. EZS 50

10" Closet Fittings with 2" Inlet Designed For Use Below the Floor (Double, Left Hand or Right Hand)

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



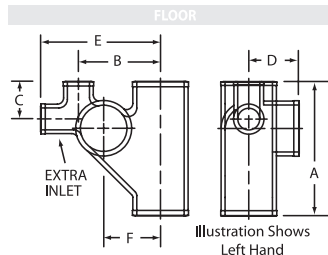
When ordering please specify
Double, Left or Right.

** Double closet fitting does not
have a baffle.

PART NO. EZS 51

10" Closet Fittings with 2" Inlet and 2" Side Inlet Designed For Use Below the Floor (Double, Left Hand or Right Hand)

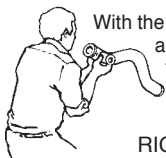
Part No.	Size	UPC# 611942-	A	B	C	D	E	F	Weight
EZS 51D**	4	04424	10 ³ / ₄	6 ¹ / ₂	3	4	9 ¹ / ₂	4 ¹ / ₂	15.0
EZS 51L	4	04425	10 ³ / ₄	6 ¹ / ₂	3	4	9 ¹ / ₂	4 ¹ / ₂	12.8
EZS 51R	4	04473	10 ³ / ₄	6 ¹ / ₂	3	4	9 ¹ / ₂	4 ¹ / ₂	12.6



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

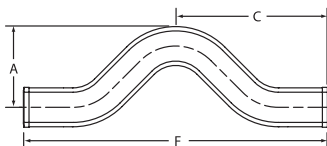
Note: VENT CROSS-OVER
for use with EZS-50 through 800 Series fittings.
Specify Right, Left, Plain or Double.

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)

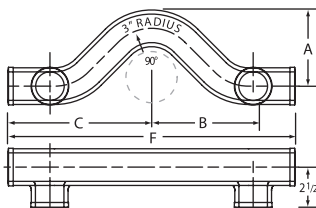
*U.P.C. No.	Size	A	C	F	Weight
611942					
04429	2 x 18 ³ / ₈	4 ⁷ / ₈	9 ³ / ₁₆	18 ³ / ₈	8.1



PART NO. EZS 7D

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

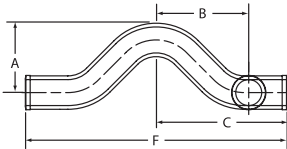
*U.P.C. No.	Size	A	B	C	F	Weight
611942						
04430	2 x 18 ³ / ₈	4 ⁷ / ₈	6 ¹ / ₂	9 ³ / ₁₆	18 ³ / ₈	8.0



PART NO. EZS 7L

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

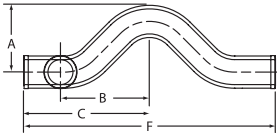
*U.P.C. No.	Size	A	B	C	F	Weight
611942	2 x 18 ³ / ₈	4 ⁷ / ₈	6 ¹ / ₂	9 ³ / ₁₆	18 ³ / ₈	8.2
04431	2 x 18 ³ / ₈	4 ⁷ / ₈	6 ¹ / ₂	9 ³ / ₁₆	18 ³ / ₈	8.2



PART NO. EZS 7R

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

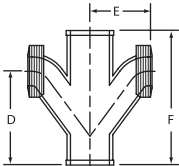
*U.P.C. No.	Size	A	B	C	F	Weight
611942	2 x 18 ³ / ₈	4 ⁷ / ₈	6 ¹ / ₂	9 ³ / ₁₆	18 ³ / ₈	8.4
04432	2 x 18 ³ / ₈	4 ⁷ / ₈	6 ¹ / ₂	9 ³ / ₁₆	18 ³ / ₈	8.4



PART NO. EZS 1

Figure One

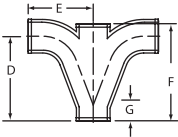
Size	E	F	D	Weight
2 x 1 ¹ / ₂	3 ³ / ₁₆	7	4 ⁷ / ₈	5.3



PART NO. NH 25

Figure Five Double Fixture Fitting

Size	D	E	F	G	Weight
2	6 ¹ / ₂	5	8	1 ¹³ / ₁₆	7.0
3	8 ⁷ / ₈	6 ⁹ / ₁₆	10 ¹ / ₈	2	10.5
3 x 2 x 3 x 3	8 ⁷ / ₈	6 ⁹ / ₁₆	9 ¹ / ₄	2	10.7
4	10 ¹ / ₄	7 ³ / ₄	12	1 ¹⁵ / ₁₆	22.5
4 x 2 x 4 x 4	10 ¹ / ₄	7 ³ / ₄	11 ¹ / ₂	1 ¹⁵ / ₁₆	19.8



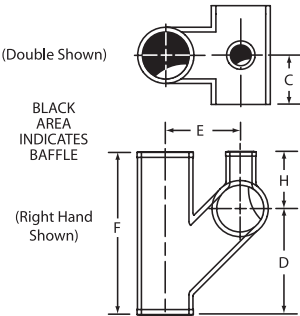
Shading indicates new part.

PART NO. EZS 6*

Figure Six
(Double, Left Hand or Right Hand)

Part No.	Size	C	D	E	F	H	Weight
EZS 6D	3x2	4 ¹ / ₈	7 ⁹ / ₁₆	5 ¹ / ₁₆	11	3 ⁷ / ₁₆	13.0
EZS 6D	4x2	4 ¹ / ₂	9	6 ¹ / ₂	13	4	23.1
EZS 6L	3x2	4 ¹ / ₈	7 ⁹ / ₁₆	5 ¹ / ₁₆	11	3 ⁷ / ₁₆	11.4
EZS 6L	4x2	4 ¹ / ₂	9	6 ¹ / ₂	13	4	18.0
EZS 6R	3x2	4 ¹ / ₈	7 ⁹ / ₁₆	5 ¹ / ₁₆	11	3 ⁷ / ₁₆	11.4
EZS 6R	4x2	4 ¹ / ₂	9	6 ¹ / ₂	13	4	18.0

*When ordering please specify Double, Left or Right.

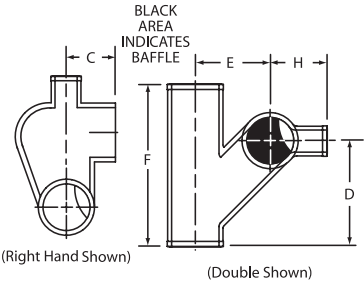


PART NO. EZS 8*

**Figure Eight
(Double, Left Hand or Right Hand)**

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

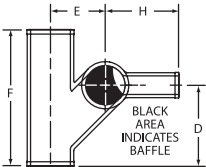
*When ordering please specify Double, Left or Right.



PART NO. EZS 8A

**Figure Eight Double Fixture Fitting,
Extended**

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



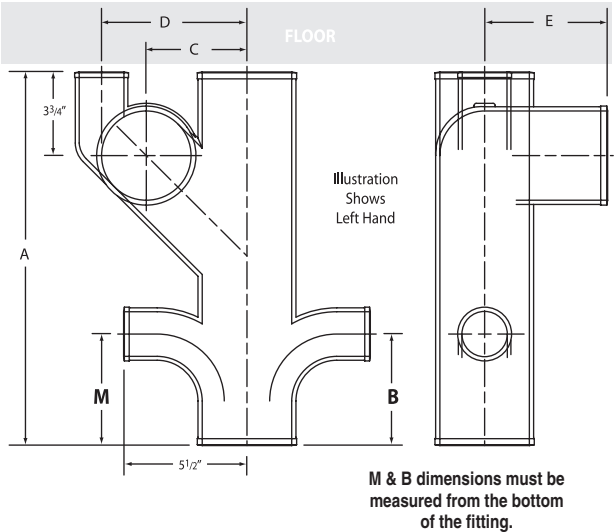
Shading indicates new part.

PART NO. EZS 100*

**16'' Closet Fittings with 2'' Inlets
Designed For Use Below the Floor
(Double, Left Hand or Right Hand)**

Part No.	Size	A	B	C	D	E	M	Weight
EZS 100D	4x16	16¾	5	4½	6½	5½	5	22.0
EZS 100L	4x16	16¾	5	4½	6½	5½	5	20.0
EZS 100R	4x16	16¾	5	4½	6½	5½	5	21.1

***When ordering please specify Double, Left or Right.**

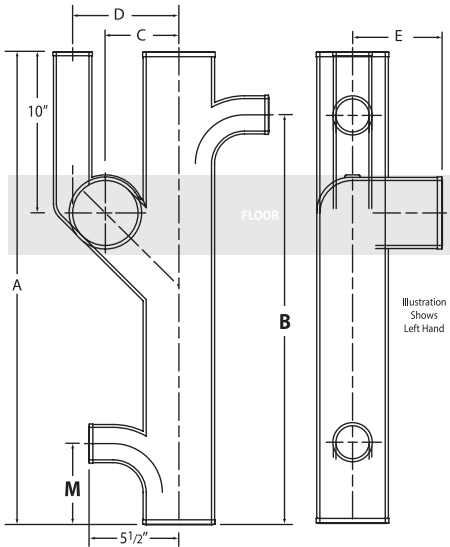


PART NO. EZS 400*

**30'' Closet Fittings with 2'' Inlet
Designed For Use In the Floor
(Double, Left Hand or Right Hand)**

Part No.	Size	A	B	C	D	E	M	Weight
EZS 400D	4x30	30	See Chart	5	4½	6½	See Chart	38.9
EZS 400L	4x30	30	See Chart	5	4½	6½	See Chart	36.8
EZS 400R	4x30	30	See Chart	5	4½	6½	See Chart	35.4

***When ordering please specify Double, Left or Right.**



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

M	B
12	26½
6½	
4	12
0	6½
	0

PART NO. EZS 700

**Threaded Starter Fitting with or without No-Hub Inlets
Designed For Use Above the Floor with Back-Outlet Water Closets
(Left Double, Hand or Right Hand)**

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

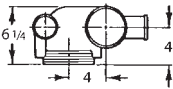


Illustration
Shows Left Hand

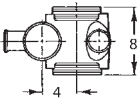
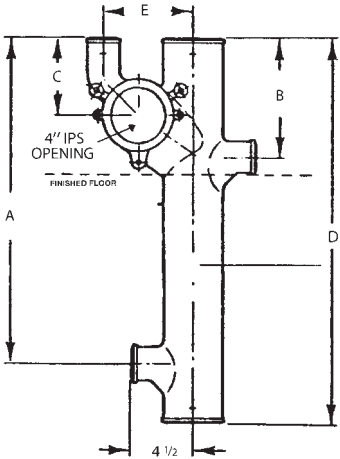


Illustration
Shows Double

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



2" inlets available

Double starter fittings have a baffle.

Note: Trim Package **Not** Included In Price Of Fitting.

PART NO. EZS 800

**Threaded Starter Fitting with or without No-Hub Inlets
Designed For Use Above the Floor with Back-Outlet Water Closets
(Double, Left Hand or Right Hand)**

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

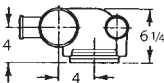


Illustration
Shows Right Hand

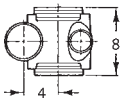
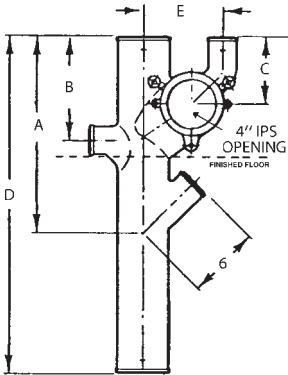


Illustration
Shows Double



2" inlets available

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

Double starter fittings have a baffle.

Note: Trim Package **Not** Included In Price Of Fitting.

PART NO. EZS 710

**No-Hub Starter Fitting with or without 2" No-Hub Inlets
 Designed For Use Above the Floor with Back-Outlet Water Closets
 (Double, Left Hand or Right Hand)**

Part No.	Size	A	B	C	D	E	Weight
EZS 710D	4x28	0	0	5½	28	4	43.0
EZS 710D	4x28	0	8½	5½	28	4	43.0
EZS 710D	4x28	23½	8½	5½	28	4	43.0
EZS 710L	4x28	0	0	5½	28	4	36.6
EZS 710L	4x28	0	8½	5½	28	4	36.6
EZS 710L	4x28	14	8½	5½	28	4	36.6
EZS 710L	4x28	23½	8½	5½	28	4	36.6
EZS 710R	4x28	0	0	5½	28	4	36.6
EZS 710R	4x28	0	8½	5½	28	4	36.6
EZS 710R	4x28	14	8½	5½	28	4	36.6
EZS 710R	4x28	23½	8½	5½	28	4	36.6

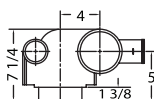


Illustration
Shows Left Hand

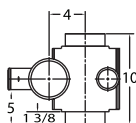
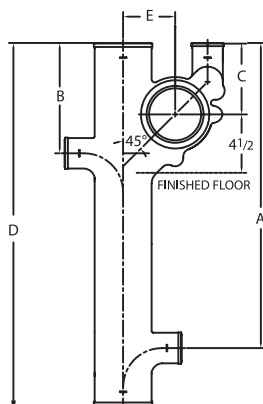


Illustration
Shows Double

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



2" inlets available

Double starter fittings have a baffle.

Note: Not Designed for Use with Trim Package.

PART NO. EZS 810

**No-Hub Starter Fitting with or without 2" No-Hub Inlets
Designed For Use Above the Floor with Back-Outlet Water Closets
(Double, Left Hand or Right Hand)**

Part No.	Size	A	B	C	D	E	Weight
EZS 810D	4x28	16	0	5½	28	6½	43.0
EZS 810D	4x28	16	8½	5½	28	6½	43.0
EZS 810L	4x28	16	0	5½	28	6½	36.6
EZS 810L	4x28	16	8½	5½	28	6½	36.6
EZS 810R	4x28	16	0	5½	28	6½	36.6
EZS 810R	4x28	16	8½	5½	28	6½	36.6

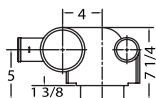


Illustration
Shows Right Hand

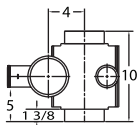
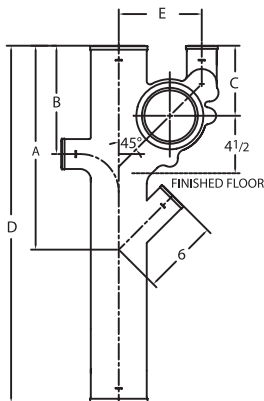


Illustration
Shows Double

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



2" inlets available

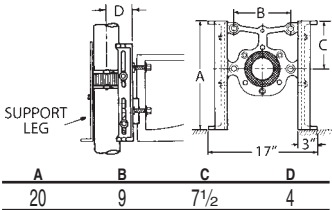
Double starter fittings have a baffle.

Note: Not Designed for Use with Trim Package.

MOUNTING HARDWARE

PART NO. EZS 22

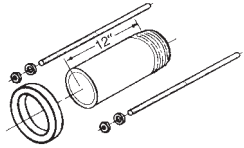
Trim Package, Support Frame Assembly



- 1—FRAME
- 1—LEFT LEG
- 1—RIGHT LEG
- 1—SUPPORT LEG (used for single only)
- 5— $1\frac{1}{2}$ " x $1\frac{1}{4}$ " BOLTS
- 5— $1\frac{1}{2}$ " FLAT WASHERS

PART NO. EZS 23

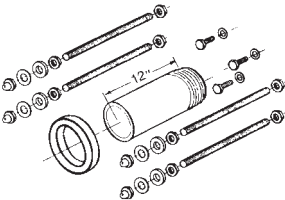
Trim Package, Floor-Mounted Back-Outlet Assembly



- 1—4" NIPPLE WITH TEST CAP
- 1—BOWL GASKET
- 2— $\frac{5}{16}$ " x 12" RODS
- 2— $\frac{5}{16}$ " HEX NUTS
- 2— $\frac{5}{16}$ " FLAT WASHERS
- 2— $\frac{5}{16}$ " CAP NUTS

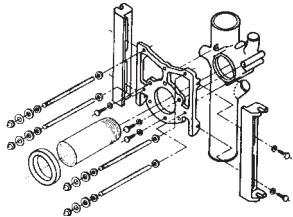
PART NO. EZS 24

Trim Package, Wall-Hung Back-Outlet Assembly



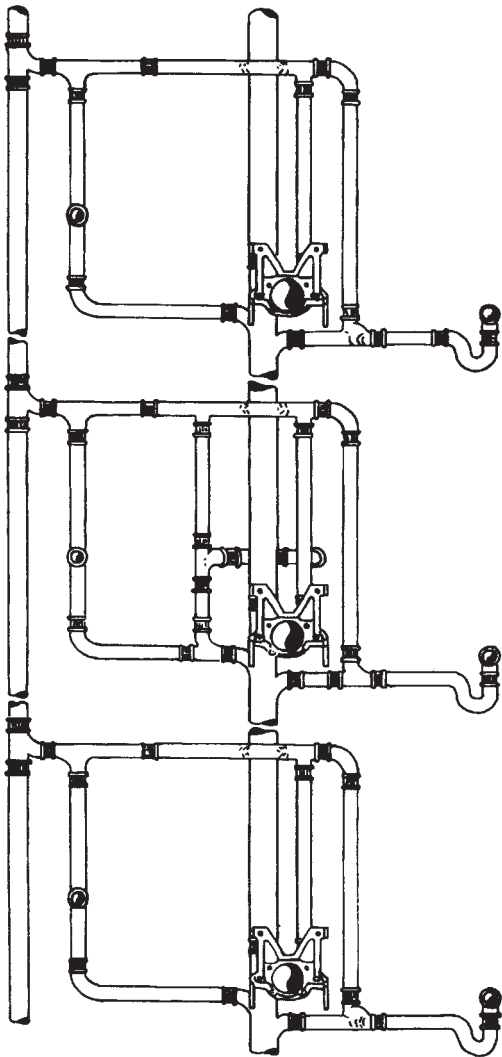
- 1—4" NIPPLE WITH TEST CAP
- 1—BOWL GASKET
- 4— $\frac{5}{8}$ " x 12" RODS
- 4— $\frac{5}{8}$ " CHROME CAP NUTS
- 8— $\frac{5}{8}$ " JAM NUTS
- 4— $\frac{5}{8}$ " FLAT WASHERS
- 4— $\frac{5}{8}$ " FIBER WASHERS
- 3— $\frac{3}{8}$ " x $1\frac{1}{2}$ " BOLTS FOR FACEPLATE
- 3— $\frac{3}{8}$ " FLAT WASHERS
- 4— $\frac{5}{8}$ " STAR WASHERS

Exploded View of Support Assembly Hardware



EZS 22 and EZS 24 Assemblies Illustrated

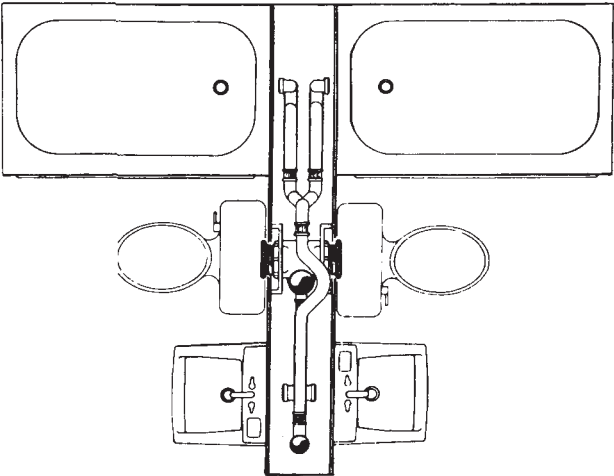
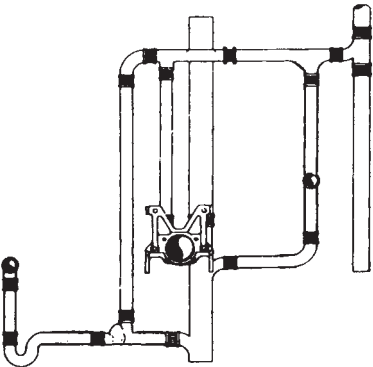
TYPICAL HIGH-RISE BUILDING INSTALLATION



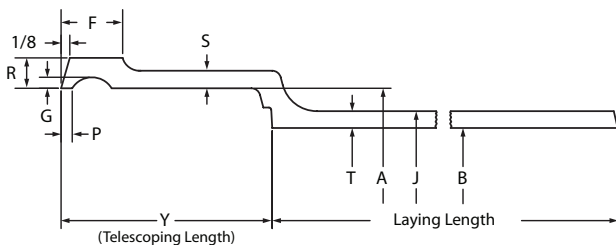
TYPICAL BACK-TO-BACK INSTALLATION

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.

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Service



PIPE - SERVICE

	Telescoping Length	Hub I.D.	Barrel O.D.	Barrel I.D.	Nominal Thickness
Size	Y	A	J	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

PART NO. SV 1



Pipe, 5' Lengths, Single Hub

Size	L	Weight
2" x 5'	5'	22.5
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'	185.7
15" x 5'	5'	287.5

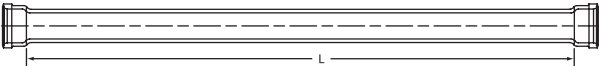
PART NO. SV 1A



Pipe, 30'' Lengths, Single Hub

Size	L	Weight
8'' x 30''	30''	58.7
10'' x 30''	30''	91.7
12'' x 30''	30''	107.1
15'' x 30''	30''	166.3

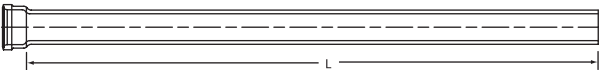
PART NO. SV 2



Pipe, 5' Lengths, Double Hub

Size	L	Weight
2'' x 5'	4' 9 1/2''	21.1
3'' x 5'	4' 9 1/4''	31.9
4'' x 5'	4' 9''	42.5
5'' x 5'	4' 9''	57.2
6'' x 5'	4' 9''	69.5

PART NO. SV 3



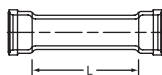
Pipe, 10' Lengths, Single Hub

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'	259.7
12'' x 10'	10'	345.9
15'' x 10'	10'	525.1

PART NO. SV 4

Pipe, 30" Lengths, Double Hub

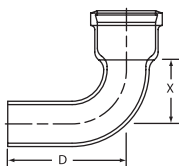
Size	L	Weight
2" x 30"	25"	13.8
3" x 30"	24½"	17.6
4" x 30"	24"	27.1



PART NO. SV 5

Quarter Bend

Size	D	X	Weight
2	6	3¼	5.1
3	7	4	7.7
4	8	4½	13.1
5	8½	5	16.2
6	9	5½	21.7
8	11½	6⅝	36.5
10	12½	7⅝	57.3
12	15	8¾	82.8
15	*	*	*

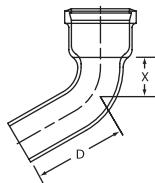


* Please see Extra Heavy dimensions.

PART NO. SV 7

Sixth Bend

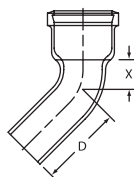
Size	D	X	Weight
2	4¾	2	4.3
3	5½	2½	6.9
4	6⅝ ₁₆	2 ¹³ / ₁₆	10.8
5	6⅝	3⅛	14.0
6	6 ⁷ / ₈	3 ³ / ₈	16.4
8	9	4⅛	32.5



PART NO. SV 8

Eighth Bend

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	*	*	*

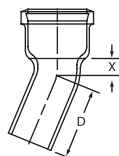


* Please see Extra Heavy dimensions.

PART NO. SV 9

Sixteenth Bend

Size	D	X	Weight
2	3 ⁵ / ₈	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	*	*	*

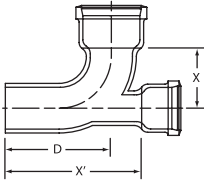


* Please see Extra Heavy dimensions.

PART NO. SV 10

Quarter Bend with Low Heel Inlet

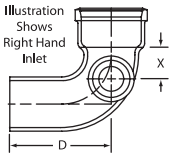
Size	D	X	X'	Weight
3 x 2	7	4	9	9.8
4 x 2	8	4½	10½	13.0



PART NO. SV 12

Quarter Bend with Side Opening

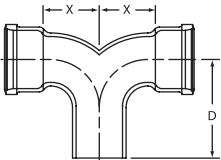
Size	D	X	Weight
4w2LH	8	3½	16.2
4w2RH	8	3½	16.5



PART NO. SV 15

Double Quarter Bend

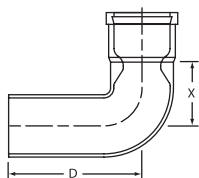
Size	D	X	Weight
4	8	4½	15.0



PART NO. SV 18

Reducing Quarter Bend

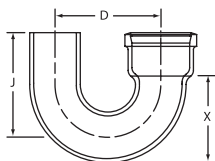
Size	D	X	Weight
3 x 2	7	3 ³ / ₈	7.0
4 x 2	7 ¹ / ₂	4 ¹ / ₂	11.7
4 x 3	8 ¹ / ₈	4 ³ / ₈	9.1



PART NO. SV 23

Single Hub Return Bend

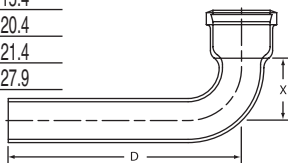
Size	D	X	J	Weight
3	5 ⁵ / ₈	5	5 ⁷ / ₈	9.4
4	7 ¹ / ₂	6 ¹¹ / ₃₂	7 ³ / ₁₆	16.4



PART NO. SV 25

Long Quarter Bend

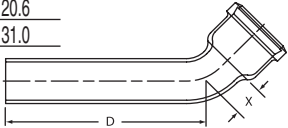
Size	D	X	Weight
2 x 12	12	3 ¹ / ₄	6.9
3 x 12	12	4	10.3
4 x 12	12	4 ¹ / ₂	15.4
4 x 16	16	4 ¹ / ₂	20.4
4 x 18	18	4 ¹ / ₂	21.4
4 x 24	24	4 ¹ / ₂	27.9



PART NO. SV 26

Long Eighth Bend

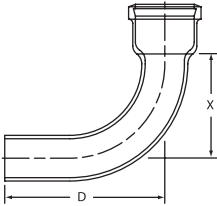
Size	D	X	Weight
2 x 12	12	1 1/2	6.2
3 x 12	12	1 15/16	9.9
3 x 18	18	1 15/16	12.4
4 x 12	12	2 3/16	15.6
4 x 18	18	2 3/16	20.6
6 x 18	18	2 9/16	31.0



PART NO. SV 29

Short Sweep Bend

Size	D	X	Weight
2	8	5 1/4	6.2
3	9	6	9.4
4	10	6 1/2	16.6
5	10 1/2	7	20.7
6	11	7 1/2	26.6
8	13 1/2	8 5/8	37.4
10	14 1/2	9 5/8	71.5
12	17	10 3/4	100.6

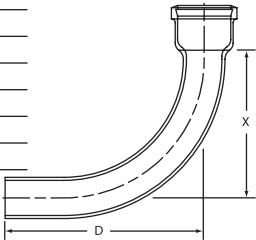


PART NO. SV 30

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	*	*	*

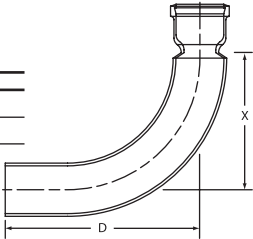
* Please see Extra Heavy dimensions.



PART NO. SV 31

Reducing Long Sweep Bend

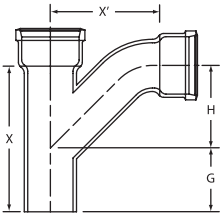
Size	D	X	Weight
3 x 2	12	9	12.0
4 x 3	13	9 ¹ / ₂	17.6



PART NO. SV 32

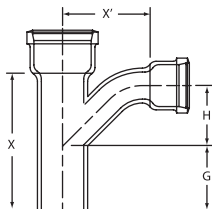
**Combination Wye & Eighth Bend
(Charlotte Pattern)**

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

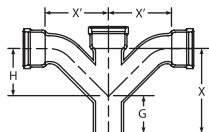


PART NO. SV 33
**Combination Wye & Eighth Bend
 (Long Turn Pattern)**

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 ¹¹ / ₁₆	13 ⁷ / ₈	19 ¹ / ₂	17	85.6

**PART NO. SV 35**
**Double Combination Wye & Eighth Bend
 (Charlotte Pattern)**

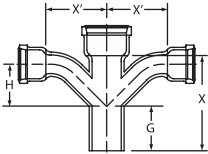
Size	G	H	X	X'	Weight
4	5 ⁷ / ₁₆	4 ³ / ₈	11 ³ / ₈	6 ¹ / ₂	26.0



PART NO. SV 35F

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

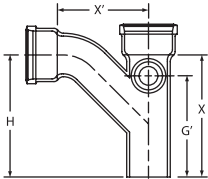
Size	G	H	X	X'	Weight
2 x 2	4	3 ³ / ₈	8	4 ⁷ / ₈	12.0
3 x 2	4 ³ / ₁₆	4	9	5 ³ / ₄	14.6
3 x 3	5	5 ¹ / ₁₆	10 ¹ / ₂	7	22.0
4 x 2	3 ¹¹ / ₁₆	4 ¹ / ₂	9	6 ¹ / ₄	19.7
4 x 3	4 ¹ / ₂	5 ⁹ / ₁₆	10 ¹ / ₂	7 ¹ / ₂	26.5
4 x 4	5 ¹ / ₄	6 ¹³ / ₁₆	12	9	36.2
5 x 4	4 ¹ / ₄	7 ⁵ / ₁₆	12	9 ¹ / ₂	30.9
6 x 4	4 ¹ / ₄	7 ¹³ / ₁₆	12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



PART NO. SV 39A

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

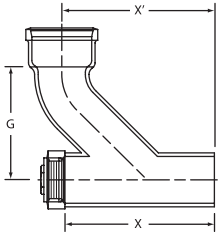
Size	G'	H	X	X'	Weight
4w/2RH	10	12 ¹ / ₁₆	12	9	27.3
4w/2LH	10	12 ¹ / ₁₆	12	9	28.3



PART NO. SV 41

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

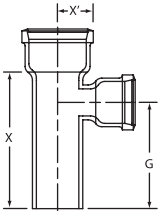
Size	IPS Tap	G	X	X'	Weight
4	3 ¹ / ₂	9	12 ³ / ₁₆	12 ¹ / ₄	18.9



PART NO. SV 42

Straight Tee

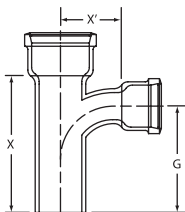
Size	G	X	X'	Weight
2 x 2	6¼	8	1¾	7.0
3 x 2	7	9	2½	9.0
3 x 3	7½	10	2½	12.0
4 x 2	7	9	3	12.7
4 x 3	7½	10	3	14.0
4 x 4	8	11	3	16.6
5 x 5	8½	12	3½	19.0
6 x 4	8	11	4	19.9
6 x 6	9	13	4	24.0
8 x 4	9⅝	12⅞	5¼	37.0



PART NO. SV 43

Sanitary Tee

Size	G	X	X'	Weight
2 x 2	6 $\frac{1}{4}$	8	2 $\frac{3}{4}$	7.9
3 x 2	7	9	4	10.9
3 x 3	7 $\frac{1}{2}$	10	4	11.9
4 x 2	7	9	4 $\frac{1}{2}$	14.2
4 x 3	7 $\frac{1}{2}$	10	4 $\frac{1}{2}$	16.9
4 x 4	8	11	4 $\frac{1}{2}$	18.6
5 x 4	8	11	5	17.9
5 x 5	8 $\frac{1}{2}$	12	5	22.3
6 x 2	7	9	5 $\frac{1}{2}$	15.0
6 x 3	7 $\frac{1}{2}$	10	5 $\frac{1}{2}$	21.4
6 x 4	8	11	5 $\frac{1}{2}$	22.8
6 x 6	9	13	5 $\frac{1}{2}$	29.8
8 x 4	9 $\frac{3}{4}$	13	6 $\frac{1}{2}$	35.7
8 x 6	10 $\frac{3}{4}$	15	6 $\frac{1}{2}$	43.0
8 x 8	11 $\frac{3}{4}$	17	6 $\frac{5}{8}$	50.8
10 x 4	9 $\frac{3}{4}$	13	7 $\frac{1}{2}$	52.0
10 x 6	10 $\frac{3}{4}$	15	7 $\frac{1}{2}$	57.7
10 x 8	11 $\frac{3}{4}$	17	7 $\frac{5}{8}$	68.0
10 x 10	12 $\frac{3}{4}$	19	7 $\frac{5}{8}$	75.9
12 x 6	12	16 $\frac{1}{2}$	8 $\frac{1}{2}$	79.0
12 x 8	13	18 $\frac{1}{2}$	8 $\frac{5}{8}$	104.0
12 x 10	14	20 $\frac{1}{2}$	8 $\frac{5}{8}$	123.0
12 x 12	15	22 $\frac{1}{2}$	8 $\frac{3}{4}$	113.0
15 x 6	*	*	*	*
15 x 8	*	*	*	*
15 x 12	*	*	*	*
15 x 15	*	*	*	*

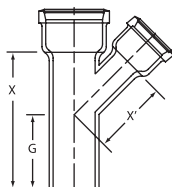


* Please see Extra Heavy dimensions.

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 ¹¹ / 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 ¹¹ / 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 ¹³ / ₁₆	131.0
12 x 12	10 ¹ / ₈	27	16 ⁷ / ₈	175.2
15 x 4	*	*	*	*
15 x 6	*	*	*	*
15 x 8	*	*	*	*
15 x 10	*	*	*	*
15 x 12	*	*	*	*
15 x 15	*	*	*	*

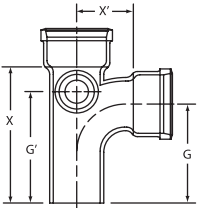


* Please see Extra Heavy dimensions.

PART NO. SV 50

**Sanitary Tee
with Left Hand Side Tap**

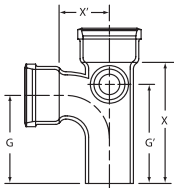
Size	G	G'	X	X'	Weight
4w/2	8	9	11	4 1/2	16.3



PART NO. SV 50A

**Sanitary Tee
with Right Hand Side Tap**

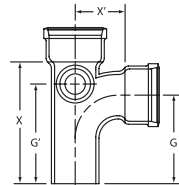
Size	G	G'	X	X'	Weight
4w/2	8	9	11	4 1/2	16.5



PART NO. SV 50B

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

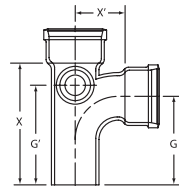
Size	G	G'	X	X'	Weight
4w/2	8	9	11	4 1/2	16.3



PART NO. SV 56

Sanitary Tee with Left Hand Side Inlet

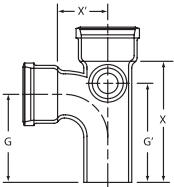
Size	G	G'	X	X'	Weight
4w/2	8	9	11	4 1/2	20.2



PART NO. SV 56B

**Sanitary Tee
with Right Hand Side Inlet**

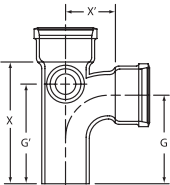
Size	G	G'	X	X'	Weight
4w/2	8	9	11	4 1/2	20.0



PART NO. SV 56C

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

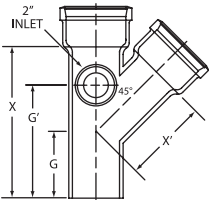
Size	G	G'	X	X'	Weight
4w/2	8	9	11	4 1/2	23.1



PART NO. SV 57

Wye with Left Hand Side Inlet

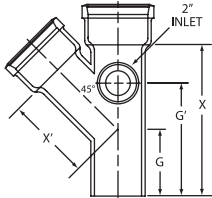
Size	G	G'	X	X'	Weight
4w/2	5 1/4	10	12	6 3/4	23.8



PART NO. SV 57A

Wye with Right Hand Side Inlet

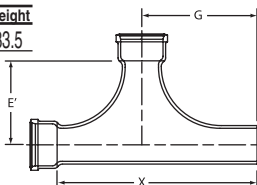
Size	G	G'	X	X'	Weight
4w/2	5 1/4	10	12	6 3/4	23.8



PART NO. SV 71A

Single Two-Way Cleanout

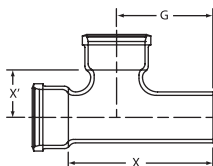
Size	X	E'	G	Weight
4	22 ⁷ / ₁₆	9 ³ / ₈	12 ³ / ₄	33.5



PART NO. SV 71B

Short Special Two-Way Cleanout

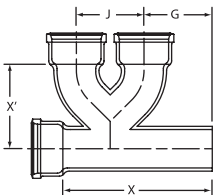
Size	G	X	X'	Weight
4	8	12	4	16.0



PART NO. SV 72

Double Two-Way Cleanout

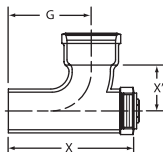
Size	G	J	X	X'	Weight
4	6 ¹ / ₂	6 ⁷ / ₁₆	13 ⁵ / ₈	7 ¹ / ₂	31.2
6 x 4 x 4	6 ¹ / ₂	6 ⁷ / ₁₆	13 ⁵ / ₈	8 ¹ / ₄	39.1



PART NO. SV 76

Sanitary Tee with Cleanout on Main

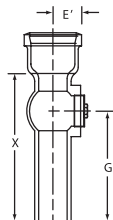
Size	IPS Tap	G	X	X'	Weight
4	3 ¹ / ₂	8	12 ¹ / ₈	4 ¹ / ₂	16.7



PART NO. SV 79

Washington Test Tee

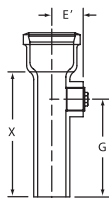
Size	IPS		E'	G	X	Weight
	Tap					
2	2		1 ³ / ₄	7	9	7.3
3	4		2 ⁷ / ₈	7 ¹ / ₈	10 ³ / ₄	13.1
4	4		3 ¹ / ₄	7 ¹ / ₄	10 ⁵ / ₈	16.8
5	5		3 ⁵ / ₈	7	11	22.5
6	6		4	8 ³ / ₄	13	26.9
8	8		5	11	16 ³ / ₈	41.6
10	10		7 ¹ / ₂	11	17 ⁵ / ₈	67.1



PART NO. SV 80

Cleanout Tee with Brass Plug

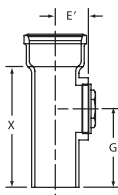
Size	IPS		E'	G	X	Weight
	Tap					
2	1 ¹ / ₂		2	6 ¹ / ₄	8	6.2
3	2		2 ¹ / ₂	7 ¹ / ₂	10	9.3
4	3		3	8	11	14.6
5	4		3 ¹ / ₂	8 ¹ / ₂	12	18.7
6	4		4 ¹ / ₄	9	13	25.3
12	8		8	13	18 ¹ / ₂	92.2



PART NO. SV 81

Miami Test Tee, Less Brass Plug

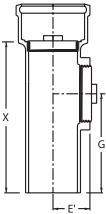
Size	IPS		E'	G	X	Weight
	Tap					
2	2		2 ¹ / ₃₂	6 ¹ / ₂	9	7.0
3	3		2 ¹ / ₂	6 ⁵ / ₈	9 ⁵ / ₈	10.0
4	4		3	7 ¹ / ₄	11	15.5
6	6		4	9	13 ¹ / ₄	22.8



PART NO. SV 82

Test Tee with Internal Tap

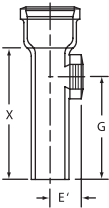
Size	E'	G	X	Weight
4	2 ¹⁵ / ₁₆	7 ⁷ / ₈	12	15.9



PART NO. SV 83

Straight Tapped Tee

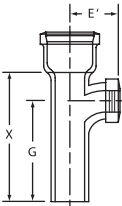
Size	E'	G	X	Weight
2 x 1 ¹ / ₂	2	6 ¹ / ₄	8	5.5
2 x 2	2	6 ¹ / ₄	8	6.0
3 x 1 ¹ / ₂	2 ¹ / ₂	7	9	7.4
3 x 2	2 ¹ / ₂	7	9	8.5
4 x 2	3	7	9	12.3
4 x 3	4	8	11	14.0
4 x 4	3	7	9	15.0
5 x 2	3 ¹ / ₂	7	9	13.5
5 x 4	3 ¹ / ₂	8 ¹ / ₂	12	17.9
6 x 4	4 ¹ / ₄	9	13	24.4



PART NO. SV 84

Sanitary Tapped Tee

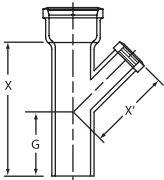
Size	E'	G	X	Weight
2 x 1 ¹ / ₂	2 ¹³ / ₁₆	6 ¹ / ₄	8	6.0
2 x 2	3 ¹ / ₁₆	6 ¹ / ₄	8	5.8
3 x 1 ¹ / ₂	3 ⁵ / ₁₆	7	9	8.0
3 x 2	3 ⁹ / ₁₆	7	9	8.1
4 x 1 ¹ / ₂	3 ¹³ / ₁₆	7	9	10.3
4 x 2	4 ¹ / ₁₆	7	9	11.7
4 x 3	4 ¹ / ₁₆	8	11	13.6



PART NO. SV 85

Tapped Wye

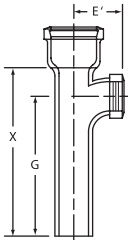
Size	G	X	X'	Weight
3 x 2	5	10 1/2	6 5/8	10.3
4 x 1 1/2	4 1/2	9	6 1/2	11.0
4 x 2	4 1/4	9	6	12.7



PART NO. SV 89

Long Sanitary Tapped Tee

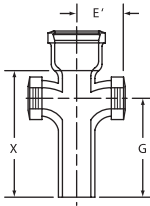
Size	E'	G	X	Weight
2 x 2 x 18	3 1/16	6 1/4	18	8.8



PART NO. SV 91

Sanitary Tapped Cross

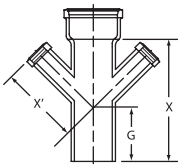
Size	E'	G	X	Weight
2 x 1 1/2	2 13/16	6 1/4	8	6.4
2 x 2	3 1/16	6 1/4	8	6.7
3 x 2	3 9/16	7	9	9.0
4 x 2	4 1/16	7	9	11.6



PART NO. SV 92

Tapped Double Wye

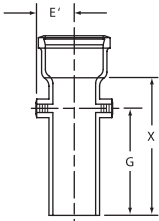
Size	G	X	X'	Weight
4 x 2	5 3/4	12	7 7/8	15.4



PART NO. SV 93

Tapped Cross

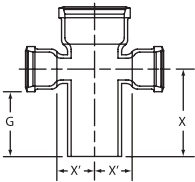
Size	E'	G	X	Weight
3 x 2	2 1/2	7	9	9.4
4 x 2	3	7	9	13.1



PART NO. SV 108

Straight Cross

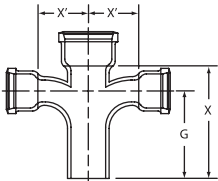
Size	G	X	X'	Weight
4 x 2	7	9	3	16.0
4	8	11	3	17.0



PART NO. SV 109

Sanitary Cross

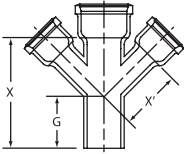
Size	G	X	X'	Weight
2	6 1/4	8	2 3/4	10.0
3 x 2	7	9	4	12.5
3	7 1/2	10	4	15.6
4 x 2	7	9	4 1/2	16.0
4 x 3	7 1/2	10	4 1/2	20.0
4	8	11	4 1/2	22.9
5 x 4	8	11	5	23.2
6 x 4	8	11	5 1/2	29.0
6	9	13	5 1/2	34.9
8	11 3/4	17	6 5/8	105.0



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	*	*	*	*

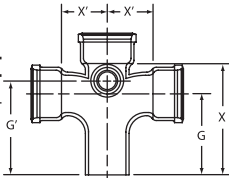


* Please see Extra Heavy dimensions.

PART NO. SV 114

Sanitary Cross with 2'' Side Inlet

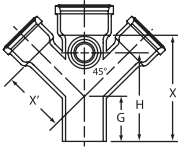
Size	G	G'	X	X'	Weight
4	8	9	11	4 ¹ / ₂	27.0



PART NO. SV 115

Double Wye with 2" Side Opening

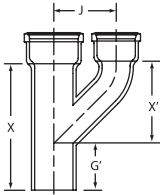
Size	G	H	X	X'	Weight
4 x 4	5 1/4	10	12	6 3/4	31.8



PART NO. SV 135

"H" Branch

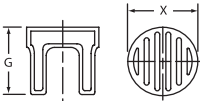
Size	X	X'	J	G	Weight
4 x 3	12 3/16	7 9/16	6	4 1/2	17.0
4	13 15/16	8 11/16	6 1/2	5 1/4	19.6



PART NO. SV 137

Bar Grate with Legs

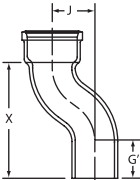
Size	G	X	Weight
4	3	4 3/4	2.0



PART NO. SV 141

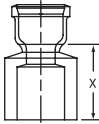
45° Offset

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

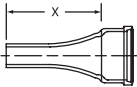
Reducer		
Size	X	Weight
3 x 2	4 ³ / ₄	4.6
4 x 2	5	6.0
4 x 3	5	7.0
5 x 2	5	6.6
5 x 3	5	6.8
5 x 4	5	9.0
6 x 2	5	8.2
6 x 3	5	9.9
6 x 4	5	10.4
6 x 5	5	10.9
8 x 3	6	14.3
8 x 4	6	16.6
8 x 5	6	16.4
8 x 6	6	16.8
10 x 4	6	20.0
10 x 5	6	38.0
10 x 6	6	24.0
10 x 8	6	26.5
12 x 4	6 ¹ / ₂	32.2
12 x 6	6 ¹ / ₂	34.4
12 x 8	6 ¹ / ₂	37.2
12 x 10	6 ¹ / ₂	38.4
15 x 6	*	*
15 x 8	*	*
15 x 10	*	*
15 x 12	*	*



* Please see Extra Heavy dimensions.

PART NO. SV 144

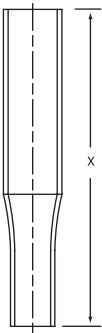
Reducer Increaser		
Size	X	Weight
2 x 4	9	9.4
3 x 4	9	8.8
4 x 5	9	11.3
4 x 6	9	15.2
4 x 8	12	24.5
5 x 6	9 ¹ / ₂	12.8
6 x 8	12	24.0
8 x 10	12	44.0



PART NO. SV 147

Long Plain Increaser

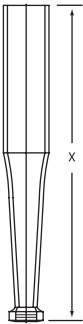
Size	X	Weight
3 x 4 x 24	24	13.6
4 x 5 x 30	30	27.4



PART NO. SV 148

Long Tapped Increaser

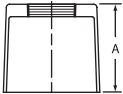
Size	X	Weight
2 x 4 x 30	30	22.8



PART NO. SV 151

Tapped Spigot

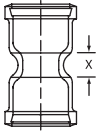
Size	A	Weight
4 x 2	4 1/4	4.7



PART NO. SV 153

Double Hub Fitting

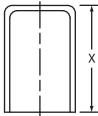
Size	X	Weight
2	1¼	4.2
3	1¼	7.0
4	1½	9.1
6	1½	13.1
8	1½	22.1
10	1½	36.3
12	1½	46.3
15	*	*



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	*	*



PART NO. SV 159

Vent Cap with Set Screw

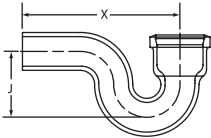
Size	Weight
4	2.6



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

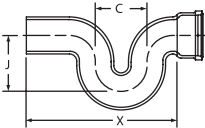


*Please see Extra Heavy dimensions.

PART NO. SV 170

Running Trap

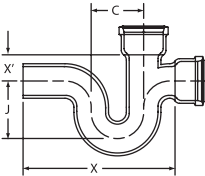
Size	X	C	J	Weight
4	17½	6	6½	19.3
6	21½	8	8½	48.0



PART NO. SV 174

Running Trap with Single Hub Vent

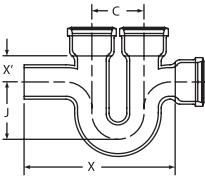
Vent						Weight
Size	Size	C	J	X	X'	
3	3	5	5½	15	2½	15.3
4	4	6	6½	17½	3	28.3
5	4	7	7½	19½	3½	39.7
6	4	8	8½	21½	4	45.9
8	4	10	11	27⅝	5¼	95.9
8	6	10	11	27⅝	5¼	110.0



PART NO. SV 175

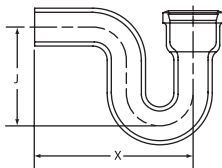
Running Trap
with Double Hub Vent

Vent						Weight
Size	Size	C	J	X	X'	
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	53.4
6	6	8	8½	21½	4	61.5
8	4	10	11	27⅝	5¼	98.8
8	6	10	11	27⅝	5¼	99.7
10	8	12	13	31⅝	6¼	187.0
12	10	15	15	38¾	7¼	287.6
15	12	18½	18½	45	9	460.0



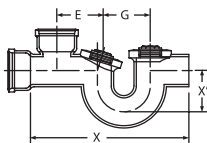
PART NO. SV 180**Deep Seal "P" Trap**

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*****Improved Running Trap with Double Cleanout and Tee Branch**

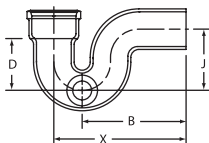
Vent	Size	Size	E	G	X	X'	Weight
	4	3	5¼	6¼	20½	5½	34.3
	4	4	5⅜	6¼	20½	5½	33.7

*Note: 3½" IPS tap

**PART NO. SV 188*****"P" Trap with Cleanout Right Side**

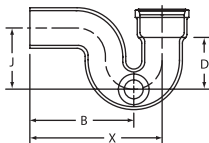
Size	X	J	B	D	Weight
4	14	6½	11	5½	20.0

*Note: 3½" IPS tap

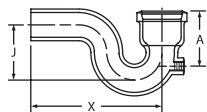
**PART NO. SV 188A*****"P" Trap with Cleanout Left Side**

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

*Note: 3½" IPS tap

**PART NO. SV 198****"P" Trap with ½" Heel Tap**

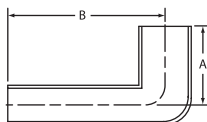
Size	X	J	A	Weight
2	9½	4	4	6.8
3	12	5½	4⅜	13.0
4	14	6½	4⅝	23.1



PART NO. SV 200

Closet Bend, Plain - Less Collar

Size	A	B	Weight
3 x 4	6	12	9.0
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	16	14.0
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	12	18	19.0
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	14	11.0
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	12	10.0
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

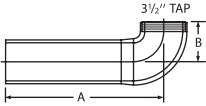


Shading indicates new part.

PART NO. SV 206

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

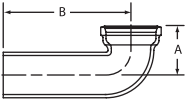
Size	A	B	Weight
3 1/2 x 4 x 4 x 18	18	4	17.4



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

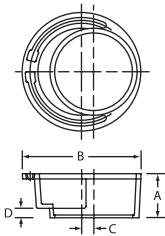


PART NO. SPL 217

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

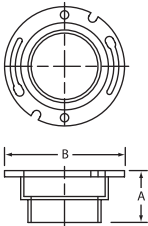
§ 2" Offset



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

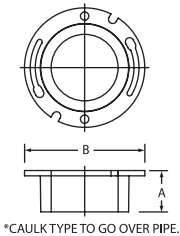


Shading indicates new part.

PART NO. SPL 220*

Closet Flange, Notched and Slotted

Size	A	B	Weight
4 x 1	1	7 ³ / ₁₆	2.0
4 x 1 ¹ / ₂	1 ¹ / ₂	7 ³ / ₁₆	2.6
4 x 2	2	7 ³ / ₁₆	2.8
4 x 2 ¹ / ₂	2 ¹ / ₂	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

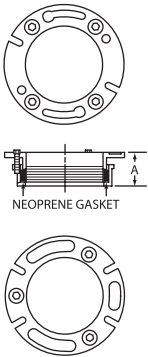
Instant Set Closet Flange

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

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

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

§ Three-bolt reducing pattern, with test cap.

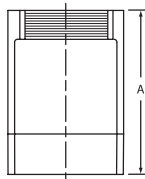


Shading indicates new part.

PART NO. SV 228

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

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	*	*	*
4 x 3½	3½	4½	4.0
4 x 8	3½	8	8.1
4 x 12	3½	12	9.2

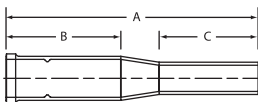


* Please see Extra Heavy dimensions.

PART NO. SV 253

Sission Insertable Joint

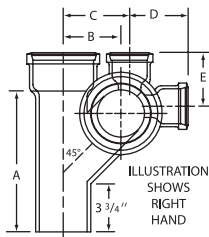
Size	A	B	C	Weight
2	14	6	6	7.0
3	16	8	6¾	11.6
4	14½	7	6	12.9
5	15⅞	9	5⅞	17.0
6	16⅜	8½	6	20.4
8	18	10	6¾	37.0



PART NO. SV 458

**Vented Closet Tee with 2" Top Vent
and 2" Extended Side Outlet,
Right Hand or Left Hand**

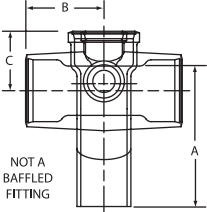
Size	A	B	C	D	E	Weight
4x4x2x2x4 RH	11	4½	5⅜	4⅞	4⅜	37.0
4x4x2x2x4 LH	11	4½	5⅜	4⅞	4⅜	37.8



PART NO. SV 459D

Vented Closet Cross with 2" Top Vent
and 2" Extended Side Outlet

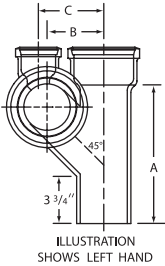
Size	A	B	C	Weight
4x4x2x2x4	11	6 1/4	4 3/4	47.0



PART NO. SV 460

Vented Closet Tee with 2" Top Vent,
Right Hand or Left Hand

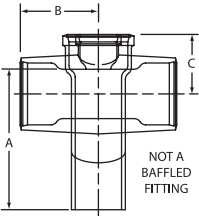
Size	A	B	C	Weight
4x4x2x4RH	11	4 1/2	5 3/16	35.0
4x4x2x4LH	11	4 1/2	5 3/16	35.0



PART NO. SV 463D

Vented Closet Cross with 2" Top Vent

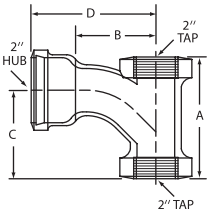
Size	A	B	C	Weight
4 x 4 x 2	11	6 1/4	4 3/4	43.8



PART NO. SV 566

Tapped Long Sweep Tee

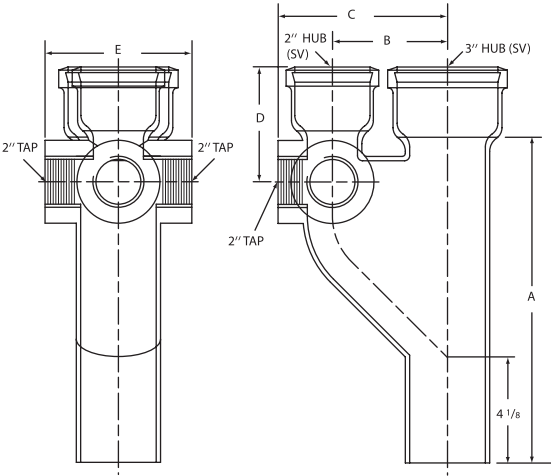
Size	A	B	C	D	Weight
2 x 2	5 1/2	3 1/8	4	5 5/8	6.2



PART NO. SV 581

Double Sink Stack-1770

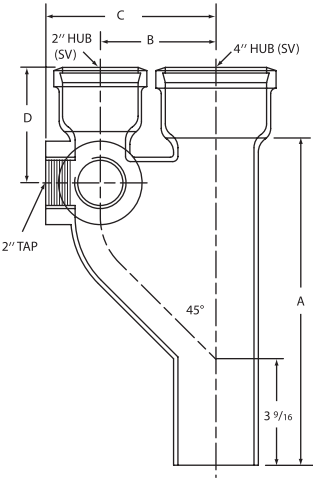
Size	A	B	C	D	E	Weight
3 x 2 x 2	12 ³ / ₄	4 ¹ / ₂	6 ⁵ / ₈	4 ¹ / ₂	5 ³ / ₄	18.0



PART NO. SV 581

Double Sink Stack-1770

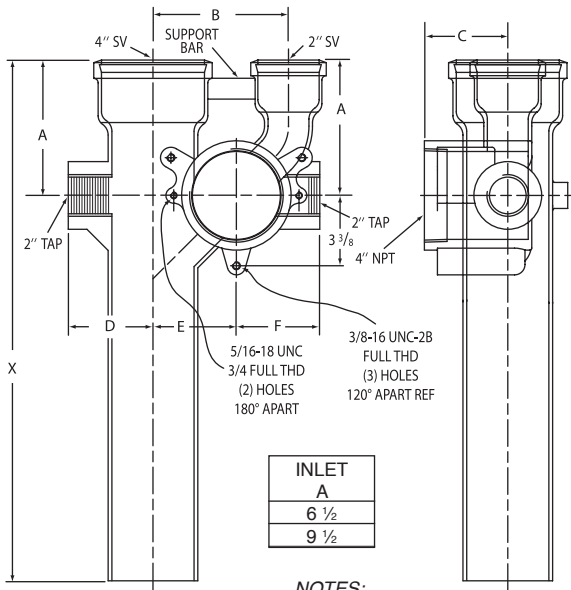
Size	A	B	C	D	Weight
4 x 2 x 2	12 1/2	5	7 1/2	4 1/2	21.4



PART NO. SV 973R

Right Hand Starter Fitting
with 4" Tap

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

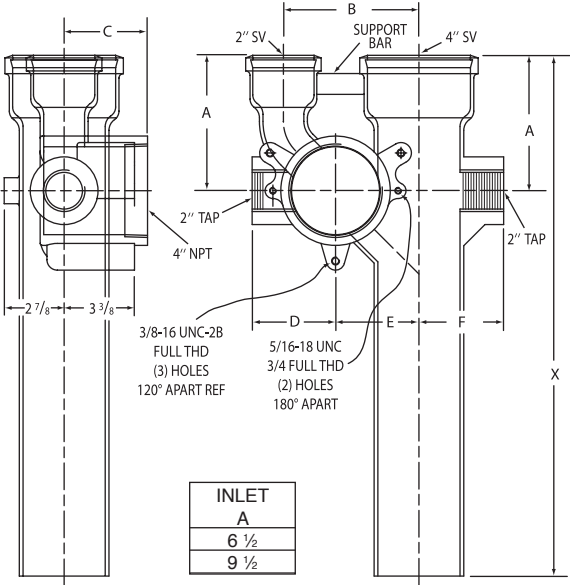


- NOTES:
1. Single Vertical
R.H. Offset Back
Outlet Starter
Fitting
 2. 4" Stack with
2" Vent & Inlets
 3. Face Plate
Package Not
Included

PART NO. SV 973L

Left Hand Starter Fitting
with 4" Tap

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



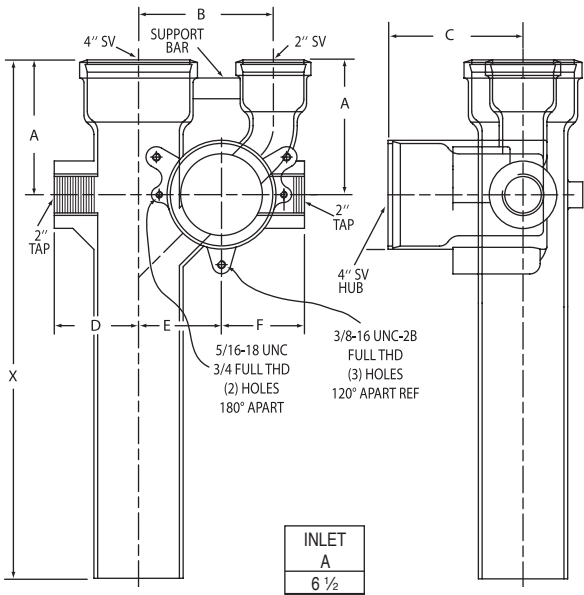
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- NOTES:
1. Single Vertical
L.H. Offset Back
Outlet Starter
Fitting
 2. 4" Stack with
2" Vent & Inlets
 3. Face Plate
Package Not
Included

PART NO. SV 974R

**Right Hand Starter Fitting
with 4" Hub**

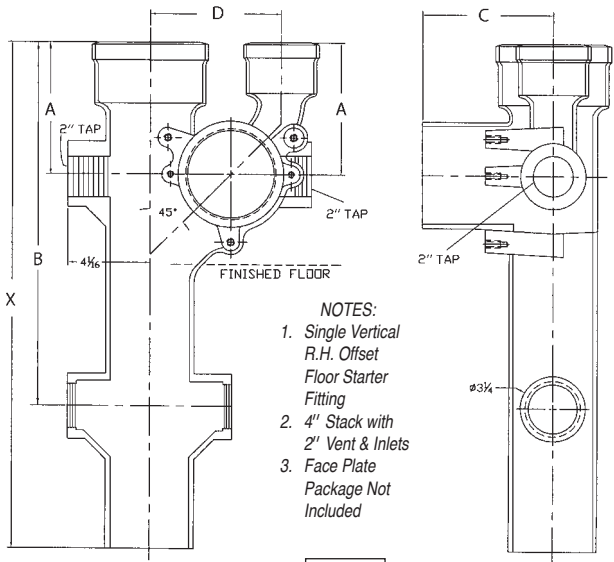
Size	A	B	C	D	E	F	X	Weight
4 with A inlets	6½	6½	6½	4¼	4	4	25	39.2



PART NO. SV 974R

Right Hand Starter Fitting
with 4" Hub

Size	A	B	C	D	X	Weight
4 with A & B inlets	6½	18	6½	6½	25	46.2



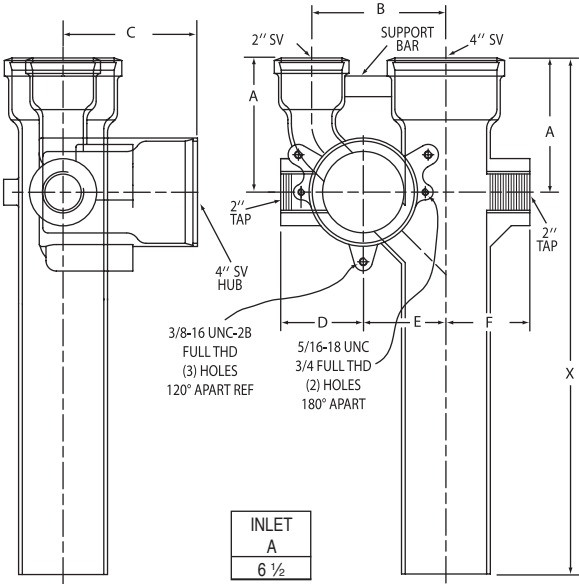
INLET	
A	B
6½	18

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PART NO. SV 974L

Left Hand Starter Fitting
with 4" Hub

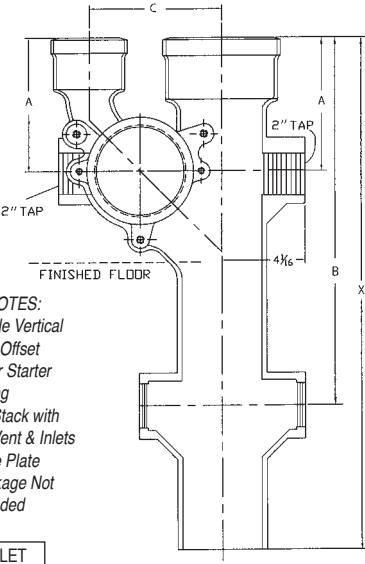
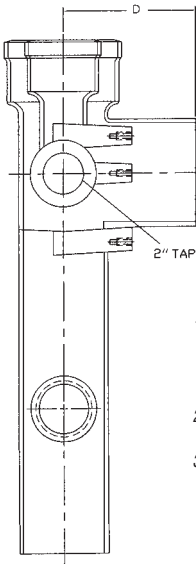
Size	A	B	C	D	E	F	X	Weight
4 with A inlets	6 1/2	6 1/2	6 1/2	4	4	4 1/16	25	39.7



PART NO. SV 974L

Left Hand Starter Fitting
with 4" Hub

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
 3. Face Plate
Package Not
Included

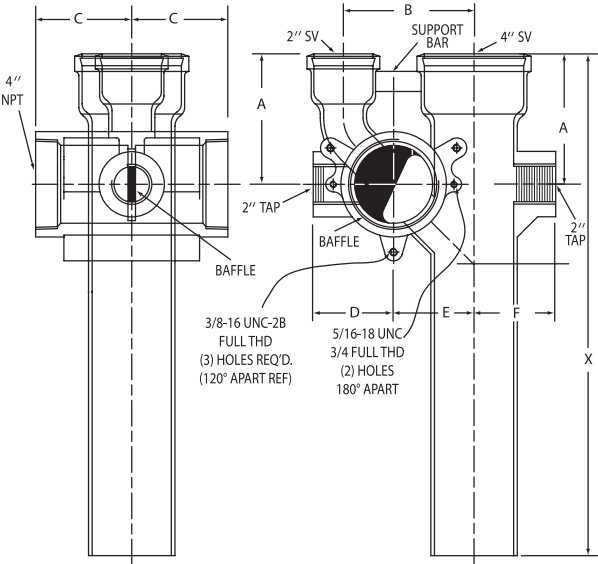
INLET	
A	B
6½	18

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PART NO. SV 975

Double Starter Fitting
with 4" Tap

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



INLET
A
9 1/2

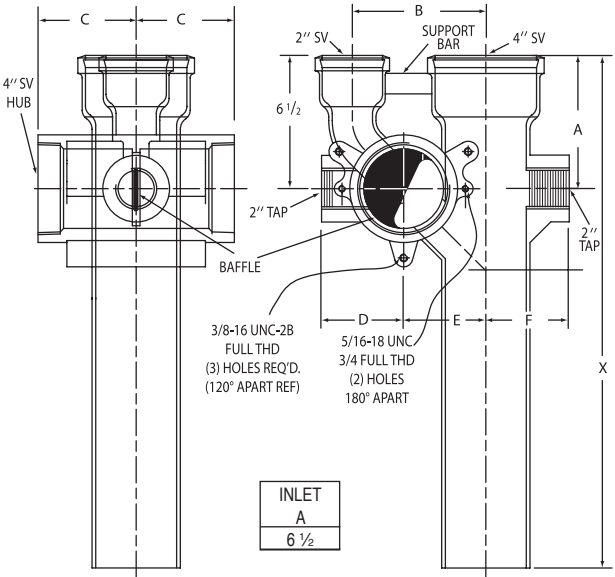
NOTES:

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

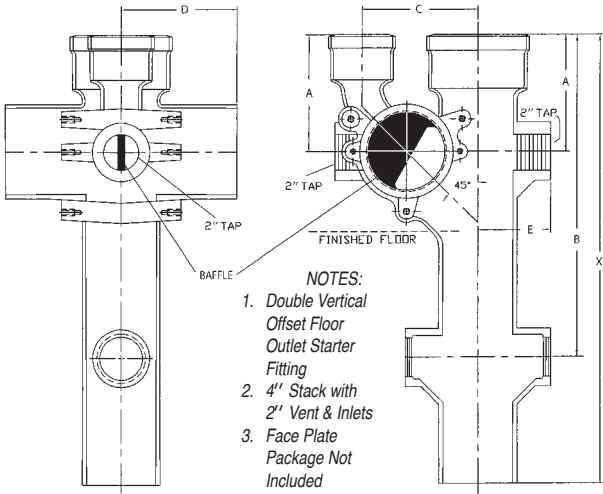
Size	A	B	C	D	E	F	X	Weight
4 with A inlets	6 1/2	6 1/2	6 1/2	4	4	4 1/16	25	50.8



PART NO. SV 976

Double Starter Fitting
with 4" Hub

Size	A	B	C	D	E	X	Weight
4 with A & B inlets	6½	18	6½	6½	4⅛	25	56.6

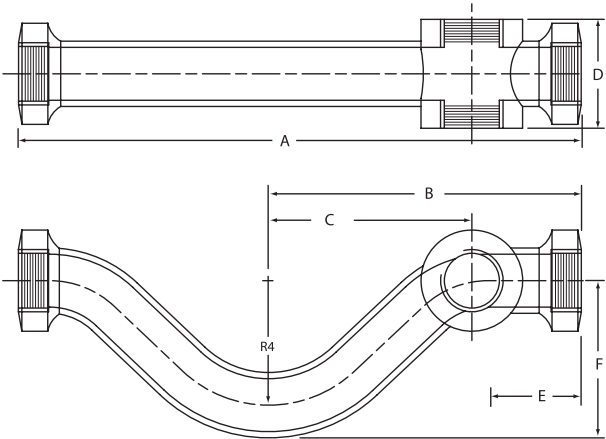


INLET	
A	B
6½	18

PART NO. SV 982

Tapped By-Pass Vent Fitting

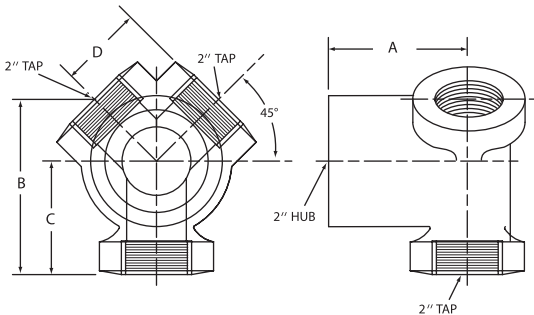
Size	A	B	C	D	E	F	Weight
2 x 2	18	10	6 1/2	3 1/2	3	5 1/4	11.3



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

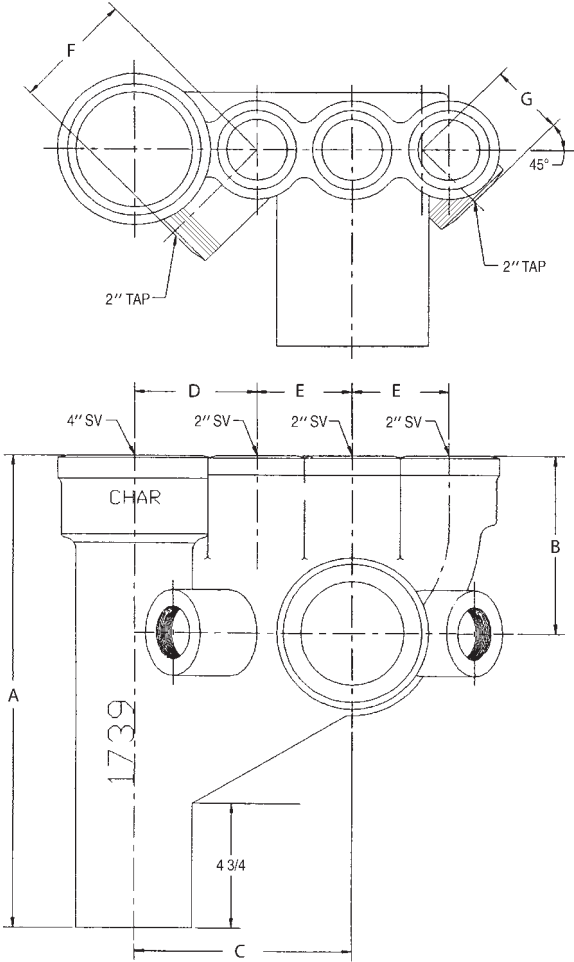


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PART NO. SV 1739R

**Right Hand Vented Closet
Tee with 2" 45° Taps**

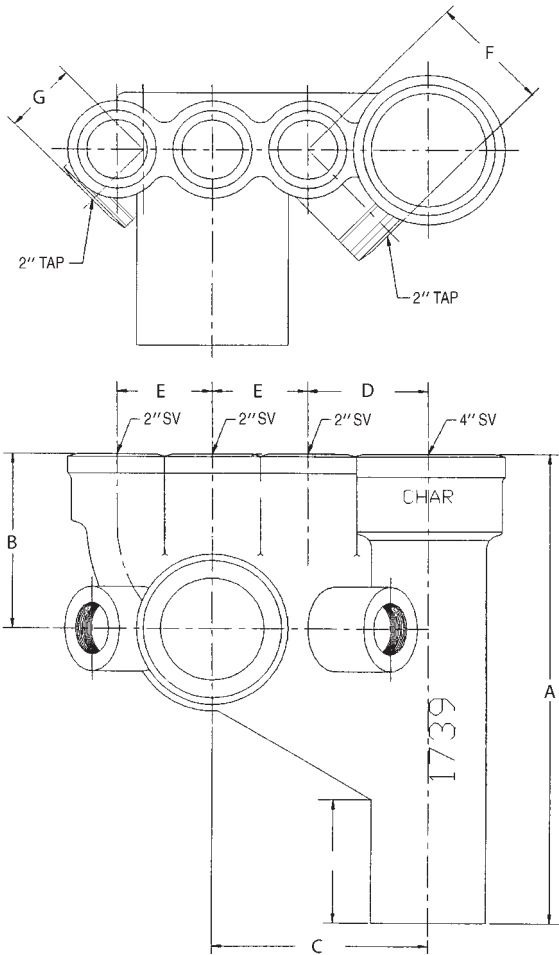
Size	A	B	C	D	E	F	G	Weight
4x2x4x2	18	6 ³ / ₄	8 ¹ / ₄	4 ⁵ / ₈	3 ⁵ / ₈	4 ¹ / ₂	2 ³ / ₄	51.1



PART NO. SV 1739L

Left Hand Vented Closet
Tee with 2" 45° Taps

Size	A	B	C	D	E	F	G	Weight
4x2x4x2	18	6¾	8¼	4⅝	3⅝	4½	2¾	51.0

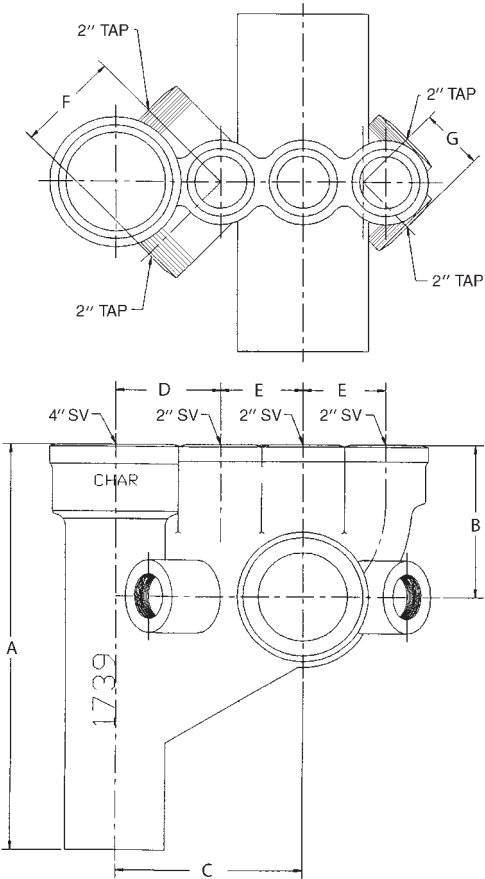


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PART NO. SV 1739 D

Vented Closet Cross
with 2" 45° Taps

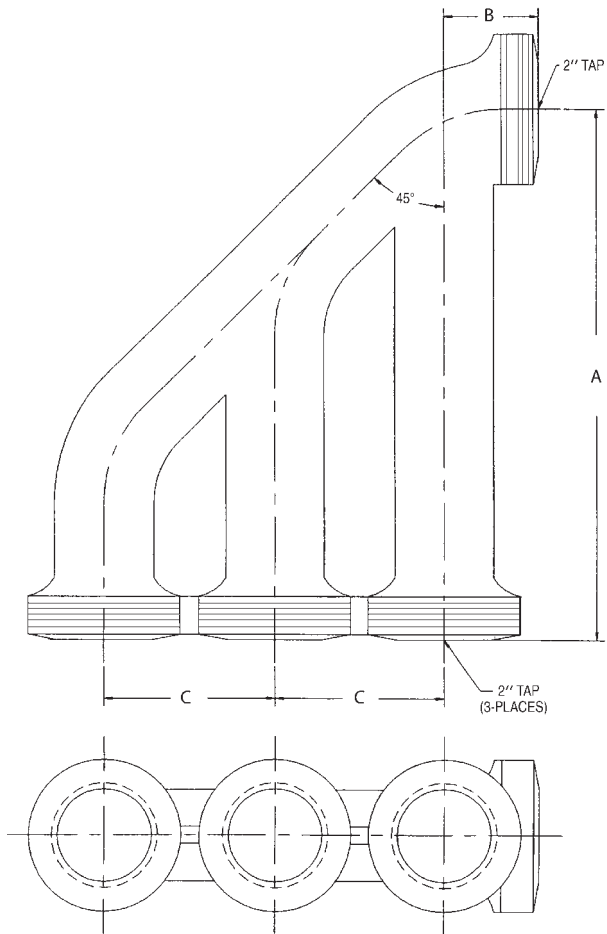
Size	A	B	C	D	E	F	G	Weight
4x2x4x2	18	6 ³ / ₄	8 ¹ / ₄	4 ⁵ / ₈	3 ⁵ / ₈	4 ¹ / ₂	2 ³ / ₄	57.5



PART NO. SV 1801

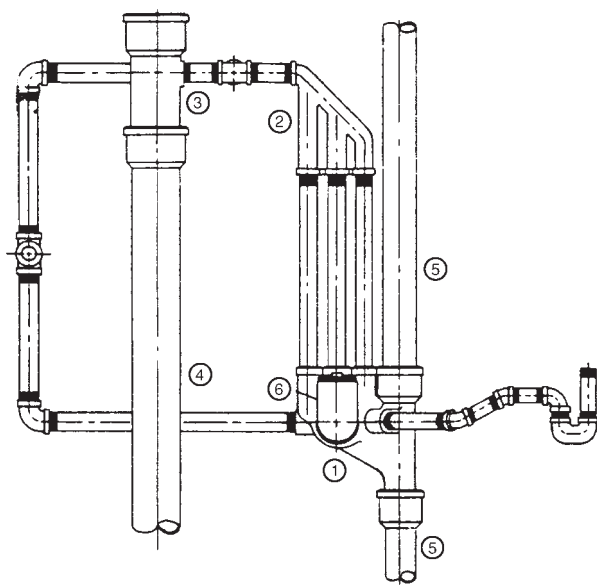
Tapped Harp Fitting

Size	A	B	C	Weight
2 x 2 x 2	117/16	2	35/8	15.5



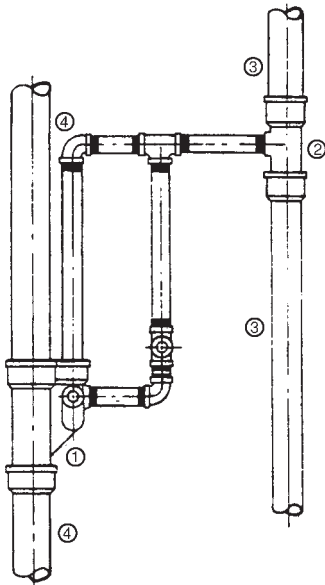
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MULTI-STORY INSTALLATION



- ① SV 1739 Left Hand Vented Closet Tee with 2" 45° Taps
- ② SV 1801 2x2x2 Tapped Harp Fitting
- ③ SV 83 5x2 Straight Tapped Tee
- ④ 5x10 SV Single Hub Pipe
- ⑤ 4x10 SV Single Hub Pipe
- SV 206 4x4x18 Tapped Closet Bend with Southern Code Brass Plug

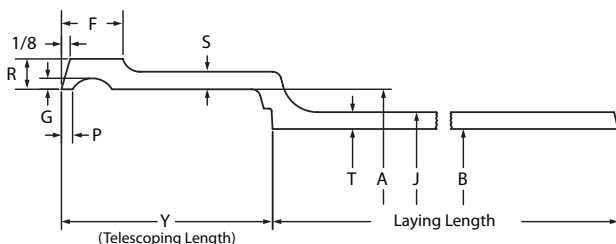
MULTI-STORY INSTALLATION



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- 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

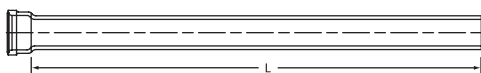
Extra Heavy



PIPE - EXTRA-HEAVY

	Telescoping Length	Hub I.D.	Barrel O.D.	Barrel I.D.	Nominal Thickness
Size	Y	A	J	B	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

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

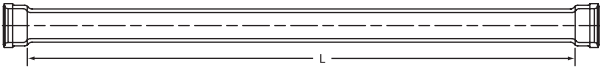
PART NO. XH 1A



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

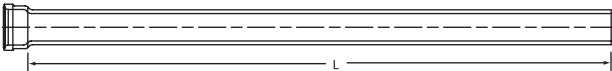
PART NO. XH 2



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

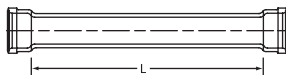
PART NO. XH 3



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



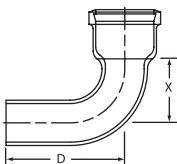
Pipe, 30" Lengths, Double Hub

Size	L	Weight
2" x 30"	25"	15.0
3" x 30"	24½"	26.0
4" x 30"	24"	33.0

PART NO. XH 5

Quarter Bend

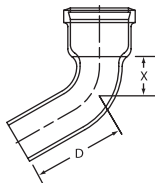
Size	D	X	Weight
2	6	3¼	6.3
3	7	4	11.1
4	8	4½	15.5
5	8½	5	18.5
6	9	5½	25.8
8	11½	6⅝	47.0
10	12½	7⅝	80.0
12	15	8¾	142.0
15	16½	10¼	173.9



PART NO. XH 7

Sixth Bend

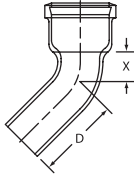
Size	D	X	Weight
2	4¾	2	6.0
3	5½	2½	7.2
4	6⅝	2⅜	14.0
6	6⅞	3⅜	21.0



PART NO. XH 8

Eighth Bend

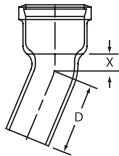
Size	D	X	Weight
2	4 ¹ / ₄	1 ¹ / ₂	4.7
3	4 ¹⁵ / ₁₆	1 ¹⁵ / ₁₆	8.8
4	5 ¹¹ / ₁₆	2 ³ / ₁₆	12.4
5	5 ⁷ / ₈	2 ³ / ₈	15.0
6	6 ¹ / ₁₆	2 ⁹ / ₁₆	18.9
8	8	3 ¹ / ₈	36.2
10	8 ³ / ₈	3 ¹ / ₂	59.7
12	10 ⁵ / ₁₆	4 ¹ / ₁₆	90.0
15	10 ¹⁵ / ₁₆	4 ¹¹ / ₁₆	122.0



PART NO. XH 9

Sixteenth Bend

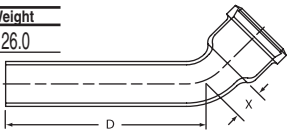
Size	D	X	Weight
2	3 ⁵ / ₈	7/ ₈	4.6
3	4 ³ / ₁₆	1 ³ / ₁₆	9.1
4	4 ¹³ / ₁₆	1 ⁵ / ₁₆	9.5
5	4 ⁷ / ₈	1 ³ / ₈	13.8
6	5	1 ¹ / ₂	16.0
8	6 ¹¹ / ₁₆	1 ¹³ / ₁₆	31.8
10	6 ⁷ / ₈	2	53.0
12	8 ⁵ / ₈	2 ³ / ₈	65.0
15	8 ⁷ / ₈	2 ⁵ / ₈	103.0



PART NO. XH 26

Long Eighth Bend

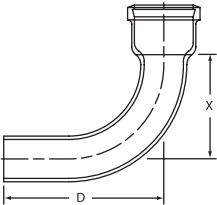
Size	D	X	Weight
4 x 18	18	2 ³ / ₁₆	26.0



PART NO. XH 29

Short Sweep Bend

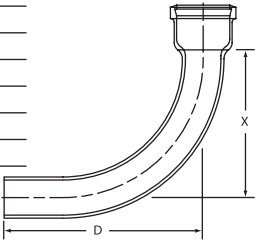
Size	D	X	Weight
2	8	5¼	7.2
3	9	6	13.0
4	10	6½	18.2
5	10½	7	23.8
6	11	7½	28.4
8	13½	8⅝	57.0
10	14½	9⅝	90.0
12	17	10¾	136.0



PART NO. XH 30

Long Sweep Bend

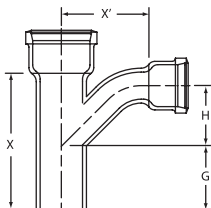
Size	D	X	Weight
2	11	8¼	9.0
3	12	9	16.6
4	13	9½	23.6
5	13½	10	30.0
6	14	10½	38.2
8	16½	11⅝	74.0
10	17½	12⅝	109.0
12	20	13¾	136.0
15	21½	15¼	213.3



PART NO. XH 33

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

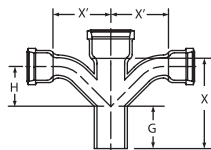
Size	G	H	X	X'	Weight
2 x 2	4	3 ³ / ₈	8	4 ⁷ / ₈	9.7
3 x 2	4 ³ / ₁₆	4	9	5 ³ / ₄	16.0
3 x 3	5	5 ¹ / ₁₆	10 ¹ / ₂	7	18.2
4 x 2	3 ¹¹ / ₁₆	4 ¹ / ₂	9	6 ¹ / ₄	18.9
4 x 3	4 ¹ / ₂	5 ⁹ / ₁₆	10 ¹ / ₂	7 ¹ / ₂	22.0
4 x 4	4 ¹ / ₂	7 ¹ / ₂	12	9	28.1
5 x 4	4 ¹ / ₄	7 ⁵ / ₁₆	12	9 ¹ / ₂	29.3
5 x 5	5 ¹ / ₂	8 ⁵ / ₈	13 ¹ / ₂	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



PART NO. XH 35F

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

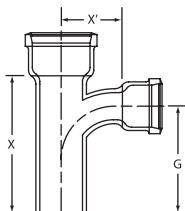
Size	G	H	X	X'	Weight
4 x 4	5 ¹ / ₄	6 ¹³ / ₁₆	12	9	44.0
6 x 4	4 ¹ / ₄	7 ¹³ / ₁₆	12	10	43.0



PART NO. XH 43

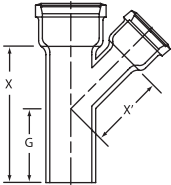
Sanitary Tee

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

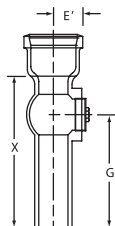
Size	Wye			Weight
	G	X	X'	
2 x 2	4	8	4	9.0
3 x 2	4 ³ / ₁₆	9	5	13.2
3 x 3	5	10 ¹ / ₂	5 ¹ / ₂	17.2
4 x 2	3 ⁵ / ₈	9	5 ³ / ₄	16.8
4 x 3	4 ⁷ / ₁₆	10 ¹ / ₂	6 ¹ / ₄	20.6
4 x 4	5 ¹ / ₄	12	6 ³ / ₄	23.7
5 x 3	3 ⁷ / ₈	10 ¹ / ₂	7	23.7
5 x 4	4 ¹¹ / ₁₆	12	7 ¹ / ₂	28.3
5 x 5	5 ¹ / ₂	13 ¹ / ₂	8	31.6
6 x 3	3 ³ / ₈	10 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 ¹¹ / ₁₆	19 ¹ / ₂	11 ¹³ / 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 ¹¹ / 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 ³ / ₁₆	236.0
15 x 15	10 ³ / ₄	31 ¹ / ₂	20 ³ / ₄	309.4



PART NO. XH 79

Washington Test Tee

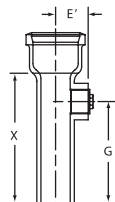
Size	IPS Tap	E'	G	X	Weight
3	4	2 ⁷ / ₈	7 ¹ / ₈	10 ³ / ₄	13.9
4	4	3 ¹ / ₄	7 ¹ / ₄	10 ⁵ / ₈	19.9
5	5	3 ⁵ / ₈	7	11	24.4
6	6	4	8 ³ / ₄	13	42.2
8	8	5	11	16 ³ / ₈	58.5



PART NO. XH 80

Cleanout Tee with Brass Plug

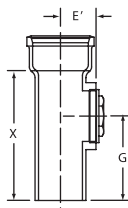
Size	IPS Tap	E'	G	X	Weight
3	2	2 ¹ / ₂	7 ¹ / ₂	10	11.3
4	3	3	8	11	15.5
5	4	3 ¹ / ₂	8 ¹ / ₂	12	22.9
6	4	4 ¹ / ₄	9	13	26.9



PART NO. XH 81S

Miami Test Tee

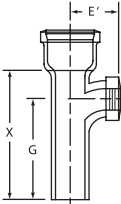
Size	IPS Tap	E'	G	X	Weight
4	4	3	7 ¹ / ₄	11	16.0



PART NO. XH 84

Sanitary Tapped Tee

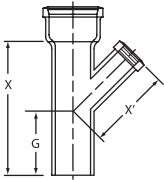
Size	E'	G	X	Weight
4 x 2	4 1/16	7	9	14.3



PART NO. XH 85

Tapped Wye

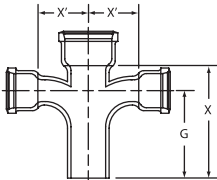
Size	G	X	X'	Weight
4 x 2	4 1/4	9	6	13.8



PART NO. XH 109

Sanitary Cross

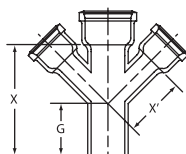
Size	G	X	X'	Weight
4	8	11	4 1/2	27.0



PART NO. XH 110

Double Wye

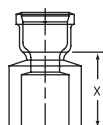
Size	G	X	X'	Weight
2	4	8	4	13.1
4 x 3	4 ⁷ / ₁₆	10 ¹ / ₂	6 ¹ / ₄	26.9
4	5 ¹ / ₄	12	6 ³ / ₄	28.2
6 x 4	4 ³ / ₁₆	12	8 ¹ / ₄	39.8
6	5 ³ / ₄	15	9 ¹ / ₄	45.0
8	7 ¹¹ / ₁₆	19 ¹ / ₂	11 ¹³ / ₁₆	119.0
10	8	22 ¹ / ₂	14 ¹ / ₂	182.0
12	10 ¹ / ₈	27	16 ⁷ / ₈	295.0
15	10 ³ / ₄	31 ¹ / ₂	22	384.8



PART NO. XH 143

Reducer

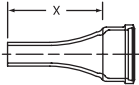
Size	X	Weight
3 x 2	4 ³ / ₄	6.0
4 x 2	5	7.0
4 x 3	5	8.9
5 x 3	5	11.0
5 x 4	5	11.0
6 x 3	5	12.0
6 x 4	5	12.2
6 x 5	5	12.6
8 x 4	6	19.1
8 x 5	6	19.5
8 x 6	6	19.0
10 x 4	6	28.0
10 x 6	6	30.0
10 x 8	6	35.0
12 x 4	6 ¹ / ₂	36.8
12 x 6	6 ¹ / ₂	46.0
12 x 8	6 ¹ / ₂	43.0
12 x 10	6 ¹ / ₂	50.0
15 x 8	6 ¹ / ₂	55.5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



PART NO. XH 144

Reducer Increaser

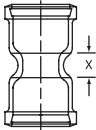
Size	X	Weight
4 x 6	9	15.8
6 x 8	12	33.8



PART NO. XH 153

Double Hub Fitting

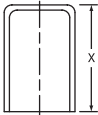
Size	X	Weight
2	1 1/4	5.0
4	1 1/2	9.4
6	1 1/2	14.0
8	1 1/2	28.0
10	1 1/2	43.0
12	1 1/2	54.0
15	1 1/2	80.0



PART NO. XH 155

Pipe Plug

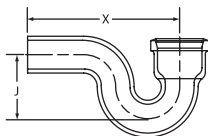
Size	X	Weight
2	3 1/2	1.4
4	4	4.7
6	4	8.0
8	4 1/2	15.0
10	4 1/2	29.0
12	5 1/4	32.0
15	5 1/4	44.0



PART NO. XH 169

"P" Trap

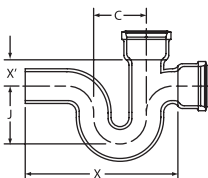
Size	J	X	Weight
2	4	9 $\frac{1}{2}$	7.9
3	5 $\frac{1}{2}$	12	17.2
4	6 $\frac{1}{2}$	14	27.2
6	8 $\frac{1}{2}$	17	45.2
8	10 $\frac{1}{2}$	22 $\frac{1}{16}$	120.0



PART NO. XH 174

Running Trap with Single Hub Vent

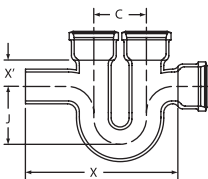
Vent						
Size	Size	C	J	X	X'	Weight
3	3	5	5 $\frac{1}{2}$	15	2 $\frac{1}{2}$	22.8
4	4	6	6 $\frac{1}{2}$	17 $\frac{1}{2}$	3	35.6
5	4	7	7 $\frac{1}{2}$	19 $\frac{1}{2}$	3 $\frac{1}{2}$	46.0
6	4	8	8 $\frac{1}{2}$	21 $\frac{1}{2}$	4	59.0



PART NO. XH 175

Running Trap
with Double Hub Vent

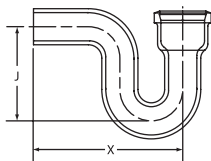
Vent						
Size	Size	C	J	X	X'	Weight
3	3	5	5 $\frac{1}{2}$	15	2 $\frac{1}{2}$	30.0
4	4	6	6 $\frac{1}{2}$	17 $\frac{1}{2}$	3	37.4
5	4	7	7 $\frac{1}{2}$	19 $\frac{1}{2}$	3 $\frac{1}{2}$	50.0
6	4	8	8 $\frac{1}{2}$	21 $\frac{1}{2}$	4	65.5
6	6	8	8 $\frac{1}{2}$	21 $\frac{1}{2}$	4	71.0
8	4	10	11	27 $\frac{5}{8}$	5 $\frac{1}{4}$	127.0
8	6	10	11	27 $\frac{5}{8}$	5 $\frac{1}{4}$	119.6
10	8	12	13	31 $\frac{5}{8}$	6 $\frac{1}{4}$	193.0
12	10	15	15	38 $\frac{3}{4}$	7 $\frac{1}{4}$	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

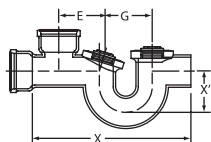


PART NO. XH 184*

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	5¾	6¼	20½	5½	42.9

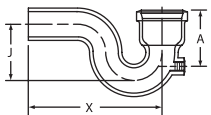
*Note: 3½" IPS tap



PART NO. XH 198

"P" Trap with ½" Heel Tap

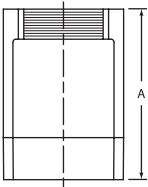
Size	X	J	A	Weight
2	9½	4	4	9.0
3	12	5½	4¾	17.0
4	14	6½	4¾	27.0



PART NO. XH 230

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

Size	Tap Size	A	Weight
2*	1½	3½	1.7
3*	2½	3¾	3.2
4	3½	4¼	4.3
5*	4	4½	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

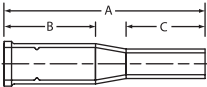


* Size available only with Southern Raised-Head Brass Plug installed.

PART NO. XH 253

Sission Insertable Joint

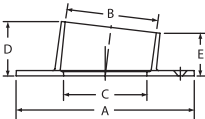
Size	A	B	C	Weight
4	14½	7	6	17.1
6	16¾	8½	6	26.2



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

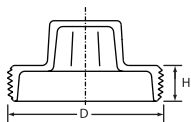


Plugs

PART NO. PLG 410

Ohio Code Brass Plug

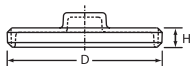
Size	D	H	Weight
2	$2\frac{3}{8}$	$1\frac{51}{64}$	0.6
2½	$2\frac{55}{64}$	$1\frac{51}{64}$	0.7
3	$3\frac{15}{32}$	$1\frac{51}{64}$	0.9
3½	4	$1\frac{51}{64}$	1.1
4	$4\frac{31}{64}$	$1\frac{51}{64}$	1.5
5	$5\frac{35}{64}$	$1\frac{51}{64}$	2.0
6	$6\frac{19}{32}$	$1\frac{13}{16}$	2.6
8	$8\frac{39}{64}$	$1\frac{13}{16}$	4.7
10	$10\frac{23}{32}$	$2\frac{1}{32}$	10.6



PART NO. PLG 430

Southern Code Brass Plug

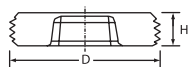
Size	D	H	Weight
1½	$1\frac{57}{64}$	$\frac{49}{64}$	0.2
2	$2\frac{23}{64}$	$\frac{49}{64}$	0.3
2½	$2\frac{55}{64}$	$\frac{51}{64}$	0.4
3	$3\frac{15}{32}$	$\frac{57}{64}$	0.6
3½	$3\frac{63}{64}$	$\frac{57}{64}$	0.7
4	$4\frac{31}{64}$	$\frac{61}{64}$	1.1
5	$5\frac{35}{64}$	$\frac{61}{64}$	1.5
6	$6\frac{19}{32}$	$\frac{17}{32}$	2.5
8	$8\frac{39}{64}$	$\frac{19}{32}$	4.0



PART NO. PLG 440

Southern Code Countersunk Brass Plug

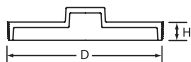
Size	D	H	Weight
1½	$1\frac{57}{64}$	$\frac{13}{32}$	0.2
2	$2\frac{23}{64}$	$\frac{7}{16}$	0.3
3	$3\frac{15}{32}$	$\frac{33}{64}$	0.6
3½	$3\frac{63}{64}$	$\frac{33}{64}$	0.8
4	$4\frac{31}{64}$	$\frac{35}{64}$	0.9
5	$5\frac{35}{64}$	$\frac{11}{16}$	1.7
6	$6\frac{19}{32}$	$\frac{11}{16}$	2.3



PART NO. PLG 450

Cast Iron Plug

Size	D	H	Weight
6	$6\frac{35}{64}$	$1\frac{17}{64}$	4.2
10	$10\frac{39}{64}$	$1\frac{31}{32}$	9.0



CHARLOTTE

PIPE AND FOUNDRY COMPANY

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Literature By Fax 800/745-9382
www.charlottepipe.com

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

ANSI A 112.5.1

Listed by NSF® International

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CISPI Standard 301

ASTM A 888

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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) The Products fail due to defects or deficiencies in design, engineering, or installation of the piping system of which they are a part.
- 5) 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.
- 6) The Products fail due to the freezing of water in the Products.
- 7) 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.
- 8) 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.

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

WARNING

Testing with or use of compressed air or gas in PVC / ABS / CPVC / Cast Iron pipe or fittings can result in explosive failures and cause severe injury or death.

AIR/GAS



- NEVER test with or transport/store compressed air or gas in PVC / ABS / CPVC / Cast Iron pipe or fittings.
- NEVER test PVC / ABS / CPVC / Cast Iron pipe or fittings with compressed air or gas, or air over water boosters.
- ONLY use PVC / ABS / CPVC / Cast Iron pipe for water or approved chemicals.
- Refer to warnings in PPFA User Bulletin 4-80 and ASTM D 1785.

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.

4/15/10

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