

# 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 January 14, 2026]

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# Cast Iron Pipe and Fitting Dimensions

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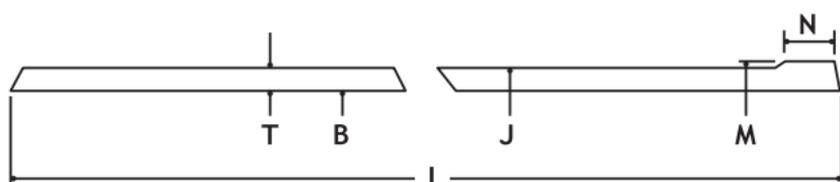
This catalog accurately reflects dimensional information to the best of our knowledge. If dimensions on your job are critical, please verify dimensional information with our factory.

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	2052	17"
5" x 10'	24	2342	20"
6" x 10'	18	2120	23"
8" x 10'	8	1367	22"
10" x 10'	6	1528	26"
12" x 10'	6	1908	29"
15" x 10'	2	985	19"

Weights are approximate and are for shipping purposes only.

**PART NO. NH 1**

**No-Hub (Standard) Coupling**

Size	Shield Width	Number of Clamps
1 1/2	2.13"	2
2 x 1 1/2	2.13"	2
2	2.13"	2
3 x 2	2.13"	2
3	2.13"	2
4 x 3	2.13"	2
4	2.13"	2
5	3.00"	4
6	3.00"	4
8	4.00"	4
10	4.00"	4



**PART NO. MDC 2**

**Heavy Duty (MD) Coupling**

Size	Shield Width	Number of Clamps
1 1/2	3.00"	4
2	3.00"	4
3	3.00"	4
4	3.00"	4
5	4.00"	6
6	4.00"	6
8	4.00"	6
10	4.00"	6



**PART NO. SDC 4**

**Heavy Duty (HD) Coupling**

Size	Shield Width	Number of Clamps
1 1/2	3.00"	4
2	3.00"	4
3	3.00"	4
4	3.00"	4
5	4.00"	6
6	4.00"	6
8	4.00"	6
10	4.00"	6



**PART NO. HD 1**

**Heavy Duty Coupling**



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

**PART NO. NH 2**



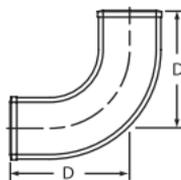
**No-Hub Pipe - Ten Foot Laying Length**

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

**PART NO. NH 4**

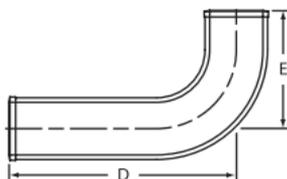
**Quarter Bend  
(90° Ell)**

Size	D	Weight
1½	4¼	1.6
2	4½	2.3
3	5	4.4
4	5½	7.3
5	6½	9.9
6	7	13.7
8	8½	20.6
4 x 3	5½	5.4



**Long Quarter Bend**

Size	D	E	Weight
2 x 12	12	4½	5.4
2 x 18	18	4½	8.6
2 x 24	24	4½	10.6
3 x 12	12	5	7.5
4 x 12	12	5½	11.3



**PART NO. NH 4A**

**Tapped Quarter Bend**

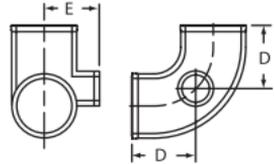
Size	D	E	Weight
1½ x 1½	3	2	1.9
2 x 1¼	3¼	2¼	2.1
2 x 1½	3¼	2¼	1.8
2 x 2	3¼	2¼	2.8



**PART NO. NH 6**

**Quarter Bend with Side Opening**

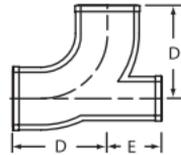
Size	E	D	Weight
3 x 2	3¼	4	5.1
4 x 2	3¾	4 <sup>5</sup> / <sub>16</sub>	7.5



**PART NO. NH 8**

**Quarter Bend with Heel Opening**

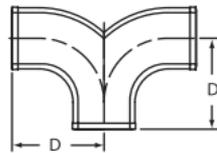
Size	D	E	Weight
3 x 2	5	2 <sup>7</sup> / <sub>8</sub>	5.5
4 x 2	5½	3¼	7.1



**PART NO. NH 8A**

**Double Quarter Bend**

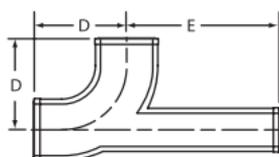
Size	D	Weight
2	4½	4.4
3	5	6.9
4	5½	9.3



**PART NO. NH 8B**

**Quarter Bend with  
Extended Low Heel Outlet**

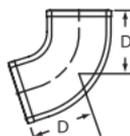
Size	D	E	Weight
3 x 2	5	10 1/2	8.0



**PART NO. NH 9**

**Fifth Bend  
(72° EII)**

Size	D	Weight
2	3 11/16	2.3
3	4 1/16	3.7
4	4 7/16	5.7



**PART NO. NH 10**

**Sixth Bend  
(60° EII)**

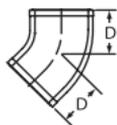
Size	D	Weight
2	3 1/4	2.2
3	3 1/2	3.0
4	3 13/16	5.4



**PART NO. NH 12**

**Eighth Bend  
(45° EII)**

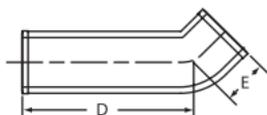
Size	D	Weight
1 1/2	2 5/8	1.5
2	2 3/4	1.8
3	3	3.0
4	3 1/8	3.7
5	3 7/8	7.2
6	4 1/16	8.6
8	5	14.9
10	5 15/16	30.8
12	6 9/16	42.0
15	7 13/16	63.4



**PART NO. NH 12**

**Long Eighth Bend**

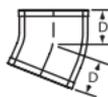
Size	D	E	Weight
2 x 6	6	2 <sup>3</sup> / <sub>4</sub>	2.4
2 x 12	12	2 <sup>3</sup> / <sub>4</sub>	4.5
2 x 18	18	2 <sup>3</sup> / <sub>4</sub>	7.3
3 x 12	12	3	7.4
3 x 18	18	3	10.2
4 x 12	12	3 <sup>1</sup> / <sub>8</sub>	9.6



**PART NO. NH 14**

**Sixteenth Bend  
(22 1/2° Ell)**

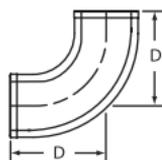
Size	D	Weight
1 1/2	2 1/8	1.2
2	2 1/8	1.4
3	2 1/4	2.2
4	2 <sup>5</sup> / <sub>16</sub>	3.3
5	2 <sup>7</sup> / <sub>8</sub>	5.1
6	3	6.5
8	3 <sup>3</sup> / <sub>4</sub>	11.4



**PART NO. NH 16**

**Short Sweep**

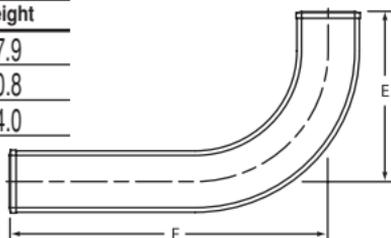
Size	D	Weight
2	6 1/2	3.8
3	7	6.5
4	7 1/2	8.5
5	8 1/2	12.7
6	9	16.7
8	10 1/2	27.4
10	12	50.9
12	13 1/4	61.3
15	14 3/4	105.6



**PART NO. EZS 14**

**Extended Short Sweep**

Size	E	F	Weight
2 x 18	6½	18	7.9
2 x 24	6½	24	10.8
2 x 34	6½	34	14.0

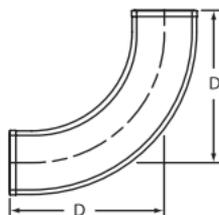


N O H U B

**PART NO. NH 18**

**Long Sweep**

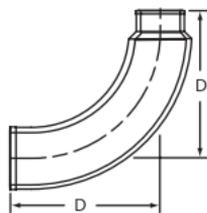
Size	D	Weight
1½	9¼	4.6
2	9½	5.7
3	10	9.3
4	10½	11.8
5	11½	18.2
6	12	23.2



**PART NO. NH 18**

**Reducing Long Sweep**

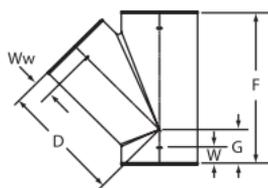
Size	D	Weight
4 x 3	10½	12.4



## PART NO. NH 20

## Wye

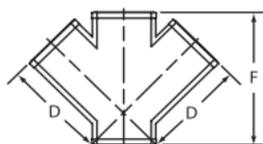
Size	D	F	G	W	Ww	Weight
1½ x 1½	4	6	2	1⅛	1⅛	2.5
2 x 2	4⅝	6⅝	2	1⅛	1⅛	3.3
3 x 1½	4⅝	6⅞	1⅝ <sub>16</sub>	1⅛	1⅛	4.4
3 x 2	5⅝ <sub>16</sub>	6⅝	1½	1⅛	1⅛	4.4
3	5¾	8	2¼	1⅛	1⅛	4.4
4 x 2	6	6⅝	1	1⅛	1⅛	4.7
4 x 3	6½	8	1⅞ <sub>16</sub>	1⅛	1⅛	7.5
4	7⅝ <sub>16</sub>	9½	2⅞ <sub>16</sub>	1⅛	1⅛	9.4
5 x 2	7½	8⅝ <sub>16</sub>	1⅝ <sub>16</sub>	1½	1⅛	8.6
5 x 3	8	9⅞ <sub>16</sub>	1⅞ <sub>16</sub>	1½	1⅛	10.3
5 x 4	8½	11⅜ <sub>16</sub>	2⅞ <sub>16</sub>	1½	1⅛	12.5
5	9½	12⅝ <sub>8</sub>	3⅛	1½	1½	14.8
6 x 2	8¼	8⅝ <sub>16</sub>	½	1½	1⅛	9.4
6 x 3	8¾	9¾	1¼	1½	1⅛	12.1
6 x 4	9¼	11⅜ <sub>16</sub>	1⅝ <sub>16</sub>	1½	1⅛	13.9
6 x 5	10¼	12½	2⅞ <sub>16</sub>	1½	1½	17.1
6	10¾	14⅝ <sub>16</sub>	3⅝ <sub>16</sub>	1½	1½	19.0
8 x 3	9⅜ <sub>16</sub>	9⅝ <sub>16</sub>	⅞	2	1⅛	17.2
8 x 4	10⅜ <sub>8</sub>	11⅞ <sub>16</sub>	1⅝ <sub>16</sub>	2	1⅛	21.3
8 x 5	11⅜ <sub>8</sub>	12⅜ <sub>16</sub>	1⅝ <sub>8</sub>	2	1½	23.5
8 x 6	11⅜ <sub>16</sub>	14⅜ <sub>16</sub>	2⅝ <sub>16</sub>	2	1½	28.1
8	13⅜ <sub>8</sub>	17⅞ <sub>8</sub>	3¾	2	2	33.3
10 x 4	11⅞ <sub>16</sub>	12⅝ <sub>8</sub>	¾	2	1⅛	33.1
10 x 6	13⅞ <sub>8</sub>	15⅞ <sub>16</sub>	2⅜ <sub>16</sub>	2	1½	42.3
10 x 8	14⅞ <sub>16</sub>	18⅜ <sub>8</sub>	3⅝ <sub>8</sub>	2	2	56.8
10	16½	21½	5⅝ <sub>16</sub>	2	2	75.4
12	19¾	25½	5¾	2¾	2¾	97.0
15	23¼	30	6¾	2¾	2¾	189.5



**PART NO. NH 21**

**Double Wye**

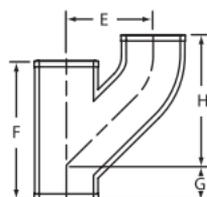
Size	D	F	Weight
2	4 <sup>5</sup> / <sub>8</sub>	6 <sup>5</sup> / <sub>8</sub>	4.5
3 x 2	5 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	5.5
3	5 <sup>3</sup> / <sub>4</sub>	8	8.0
4 x 2	6	6 <sup>5</sup> / <sub>8</sub>	6.9
4 x 3	6 <sup>1</sup> / <sub>2</sub>	8	8.7
4	7 <sup>1</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>2</sub>	11.9
5 x 4	8 <sup>1</sup> / <sub>2</sub>	11 <sup>3</sup> / <sub>16</sub>	14.9
6 x 4	9 <sup>1</sup> / <sub>4</sub>	11 <sup>3</sup> / <sub>16</sub>	16.2
6	10 <sup>3</sup> / <sub>4</sub>	14 <sup>1</sup> / <sub>16</sub>	27.4
8	13 <sup>3</sup> / <sub>8</sub>	17 <sup>1</sup> / <sub>8</sub>	47.5
8 x 4	10 <sup>3</sup> / <sub>8</sub>	11 <sup>7</sup> / <sub>16</sub>	23.1
8 x 6	11 <sup>13</sup> / <sub>16</sub>	14 <sup>3</sup> / <sub>16</sub>	31.7



**PART NO. NH 21A**

**Upright Wye**

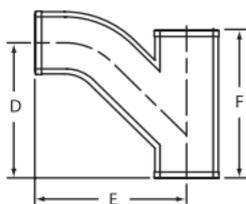
Size	H	E	F	G	Weight
2	8 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	7	2	4.6
3 x 2	8 <sup>3</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	7	1 <sup>1</sup> / <sub>2</sub>	5.6
3	8 <sup>7</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	8 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>16</sub>	9.4
4 x 2	8 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	7	1	7.4
4 x 3	8 <sup>7</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	8 <sup>3</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	10.1
4	9 <sup>1</sup> / <sub>8</sub>	6	9 <sup>3</sup> / <sub>4</sub>	2 <sup>7</sup> / <sub>16</sub>	12.5
5 x 2	9	6 <sup>1</sup> / <sub>8</sub>	8	1	9.5
5	11 <sup>7</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>8</sub>	12 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	20.9



## PART NO. NH 22

## Combination

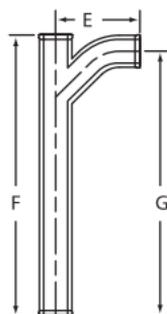
Size	D	E	F	Weight
1½	4¾	5¾	6	3.1
2 x 1½	5	5¾	6	3.5
2	5¾	6½	6⅝	4.1
3 x 1½	5½	6¾	6⅝	5.2
3 x 2	5½	6¾	6⅝	5.5
3	7 <sup>5</sup> / <sub>16</sub>	8	8	8.1
4 x 2	5½	7¼	6⅝	6.8
4 x 3	7¼	8½	8	9.4
4	9¼	10	9½	14.2
5 x 2	5 <sup>15</sup> / <sub>16</sub>	7¾	8 <sup>1</sup> / <sub>16</sub>	8.6
5 x 3	7¾	9	9 <sup>11</sup> / <sub>16</sub>	12.6
5 x 4	9¾	10½	11 <sup>3</sup> / <sub>16</sub>	16.7
5	11¾	12½	12 <sup>5</sup> / <sub>8</sub>	19.5
6 x 2	6	8¼	8 <sup>5</sup> / <sub>16</sub>	10.9
6 x 3	7 <sup>13</sup> / <sub>16</sub>	9½	9¾	14.8
6 x 4	9¾	11	11 <sup>3</sup> / <sub>16</sub>	18.3
6 x 5	11 <sup>11</sup> / <sub>16</sub>	13	12½	22.4
6	13 <sup>5</sup> / <sub>8</sub>	14 <sup>3</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>16</sub>	29.7
8 x 4	9 <sup>7</sup> / <sub>16</sub>	11 <sup>5</sup> / <sub>16</sub>	11 <sup>3</sup> / <sub>16</sub>	24.9
8 x 6	12	13 <sup>3</sup> / <sub>8</sub>	13 <sup>15</sup> / <sub>16</sub>	34.2
8	14¾	15 <sup>9</sup> / <sub>16</sub>	16 <sup>15</sup> / <sub>16</sub>	42.6



## PART NO. EZS 15

## Extended Combination

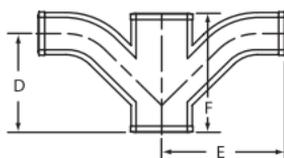
Size	E	F	G	Weight
2 x 24	6 <sup>3</sup> / <sub>16</sub>	25 <sup>3</sup> / <sub>8</sub>	24	11.9
2 x 36	6 <sup>3</sup> / <sub>16</sub>	36	34¾	15.3



**PART NO. NH 24**

**Double Combination**

Size	D	E	F	Weight
2	5 <sup>3</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>	6 <sup>5</sup> / <sub>8</sub>	6.7
3 x 2	5 <sup>1</sup> / <sub>2</sub>	6 <sup>3</sup> / <sub>4</sub>	6 <sup>5</sup> / <sub>8</sub>	7.9
3	7 <sup>5</sup> / <sub>16</sub>	8	8	11.7
4 x 2	5 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>4</sub>	6 <sup>5</sup> / <sub>8</sub>	8.5
4 x 3	7 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	8	13.7
4	9 <sup>1</sup> / <sub>4</sub>	10	9 <sup>1</sup> / <sub>2</sub>	20.0

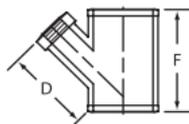


N O H B

**PART NO. NH 26**

**Tapped Wye**

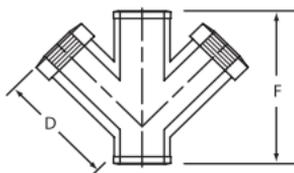
Size	D	F	Weight
2 x 1 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	3.4
2 x 2	5 <sup>1</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	4.6
3 x 1 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>4</sub>	6 <sup>5</sup> / <sub>8</sub>	4.6
3 x 2	5 <sup>13</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	5.5
4 x 1 <sup>1</sup> / <sub>2</sub>	6 <sup>7</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	6.0
4 x 2	6 <sup>1</sup> / <sub>2</sub>	6 <sup>5</sup> / <sub>8</sub>	6.9



**PART NO. NH 27**

**Tapped Double Wye**

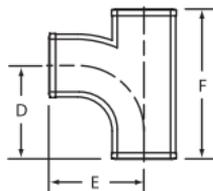
Size	D	F	Weight
2 x 1 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	5.5



**PART NO. NH 28**

**Sanitary Tee**

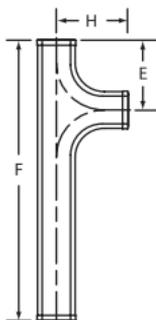
Size	E	F	D	Weight
1½ x 1½	4¼	6½	4¼	2.9
2 x 1½	4½	6⅝	4¼	3.3
2	4½	6⅞	4½	3.4
3 x 1½	5	6½	4¼	4.4
3 x 2	5	6⅞	4½	4.3
3	5	8	5	5.4
4 x 2	5½	6⅞	4½	6.0
4 x 3	5½	8	5	7.3
4	5½	9⅛	5½	8.1
5 x 2	6½	8½	5	8.1
5 x 3	6	9 <sup>5</sup> / <sub>16</sub>	5½	10.1
5 x 4	6	10 <sup>13</sup> / <sub>32</sub>	6	11.3
5	6½	11 <sup>7</sup> / <sub>16</sub>	6½	12.1
6 x 2	6½	8 <sup>3</sup> / <sub>16</sub>	5	9.3
6 x 3	6½	9 <sup>3</sup> / <sub>16</sub>	5½	11.2
6 x 4	6½	10 <sup>1</sup> / <sub>16</sub>	6	11.6
6 x 5	7	11½	6½	16.5
6	7	12½	7	13.6
8 x 3	7½	10 <sup>3</sup> / <sub>8</sub>	6	18.3
8 x 4	7½	11½	6½	21.7
8 x 5	8	12½	7	22.7
8 x 6	8	13½	7½	24.1
8	8½	15½	8½	30.3



**PART NO. EZS 16**

**2" Two-Way Sanitary Tee**

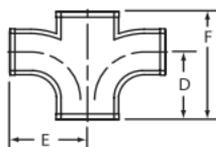
Size	E	H	F	Weight
2 x 18	4½	4½	18	7.8
2 x 24	4½	4½	24	10.4
2 x 36	4½	4½	36	13.7



**PART NO. NH 30**

**Sanitary Cross**

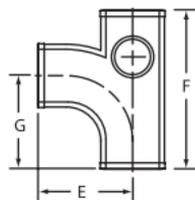
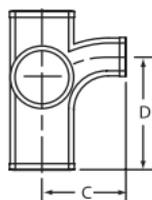
Size	E	F	D	Weight
1½	4¼	6½	4½	3.7
2	4½	6⅞	4½	4.9
3x2	5	6⅞	4½	6.1
3	5	8	5	7.6
4x2	5½	6⅞	4½	7.2
4x3	5½	8	5	8.6
4	5½	9⅛	5½	10.6
5x4	6	10 <sup>13</sup> / <sub>32</sub>	6	13.7
6x4	6½	10 <sup>1</sup> / <sub>16</sub>	6	14.5
6	7	12½	7	21.8
8x4	7½	11½	6½	22.0
8	8½	15½	8½	38.7



**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	6.8
3 (R)	4½	6	5	8½	5	6.3
4 (L)	5	6½	5½	9 <sup>3</sup> / <sub>16</sub>	5½	8.7
4 (R)	5	6½	5½	9 <sup>3</sup> / <sub>16</sub>	5½	8.4

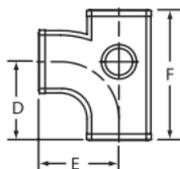


(Right Inlet)

**PART NO. NH 32**

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

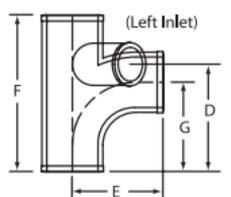
Size	E	F	D	Weight
4 x 4 w/RH & LH	5 <sup>9</sup> / <sub>16</sub>	9⅛	5½	10.9



**PART NO. NH 32B**

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

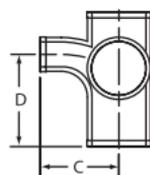
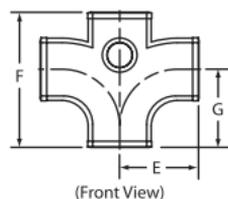
Size	D	E	F	G	Weight
3 (L)	6	5	8½	5	8.3
3 (R)	6	5	8½	5	7.8
3 (R&L)	6	5	8½	5	9.1
4 (L)	6½	5½	9¾	5½	10.7
4 (R)	6½	5½	9¾	5½	10.7



**PART NO. NH 33A**

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

Size	C	D	E	F	G	Weight
4	5	6½	5½	9¾	5½	10.7

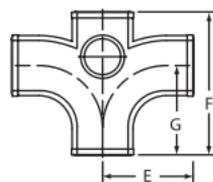


(Side View)

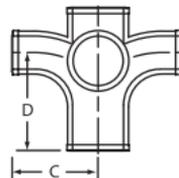
**PART NO. NH 33C**

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

Size	C	D	E	F	G	Weight
3	4½	6	5	8½	5	9.2
4	5	6½	5½	9¾	5½	11.9



(Front View)

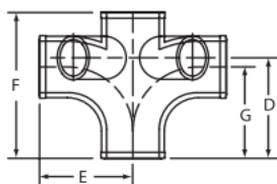


(Side View)

**PART NO. NH 33F**

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

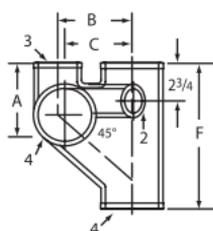
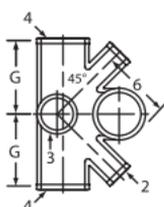
Size	D	E	F	G	Weight
3	6	5	8½	5	10.2
4	5½	5½	9⅛	5½	13.6



**PART NO. NH 33G**

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

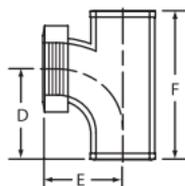
Size	A	B	C	F	G	Weight
4x3x4x2x2	3¾	5¼	4¾	10½	6½	20.3



**PART NO. NH 34**

**Sanitary Tapped Tee**

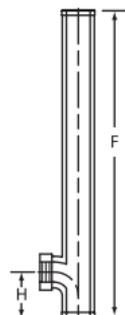
Size	D	E	F	Weight
1½ x 1¼	3¼	2 <sup>9</sup> / <sub>16</sub>	5 <sup>11</sup> / <sub>16</sub>	2.3
1½ x 1½	3¼	2 <sup>9</sup> / <sub>16</sub>	5 <sup>11</sup> / <sub>16</sub>	2.5
2 x 1¼	3¼	2 <sup>13</sup> / <sub>16</sub>	5 <sup>11</sup> / <sub>16</sub>	2.8
2 x 1½	3¼	2 <sup>13</sup> / <sub>16</sub>	5 <sup>11</sup> / <sub>16</sub>	2.8
2 x 2	3¾	3 <sup>1</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>8</sub>	3.7
3 x 1¼	3¼	3 <sup>5</sup> / <sub>16</sub>	5 <sup>11</sup> / <sub>16</sub>	3.7
3 x 1½	3¼	3 <sup>5</sup> / <sub>16</sub>	5 <sup>11</sup> / <sub>16</sub>	3.5
3 x 2	3¾	3 <sup>9</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>8</sub>	4.8
3 x 3	4 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>8</sub>	8	6.9
4 x 1¼	3¼	3 <sup>13</sup> / <sub>16</sub>	5 <sup>11</sup> / <sub>16</sub>	3.9
4 x 1½	3¼	3¾	5 <sup>11</sup> / <sub>16</sub>	4.7
4 x 2	3¾	4 <sup>1</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>8</sub>	5.8
4 x 3	4½	4 <sup>3</sup> / <sub>8</sub>	8	10.0
5 x 1½	3¾	4 <sup>5</sup> / <sub>16</sub>	7 <sup>3</sup> / <sub>16</sub>	6.5
5 x 2	4¼	4 <sup>9</sup> / <sub>16</sub>	8	8.8
6 x 1½	3¾	4 <sup>13</sup> / <sub>16</sub>	6¾	8.1
6 x 2	4¼	5 <sup>1</sup> / <sub>16</sub>	7 <sup>7</sup> / <sub>16</sub>	9.2



**PART NO. EZS 17**

**2" x 22<sup>7</sup>/<sub>8</sub>" Extended Tapped  
Sanitary Tee**

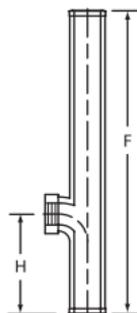
Size	H	F	Weight
2 x 1 <sup>1</sup> / <sub>2</sub> x 22 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>4</sub>	22 <sup>7</sup> / <sub>8</sub>	9.5
2 x 2 x 22 <sup>7</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	22 <sup>7</sup> / <sub>8</sub>	9.0



**PART NO. EZS 27**

**Sanitary Tapped Tee**

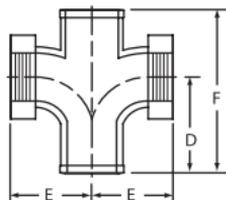
Size	H	F	Weight
2 x 1 <sup>1</sup> / <sub>2</sub> x 31	11 <sup>1</sup> / <sub>4</sub>	31	12.8
2 x 2 x 31	11 <sup>1</sup> / <sub>4</sub>	31	13.8



**PART NO. NH 35**

**Sanitary Tapped Cross**

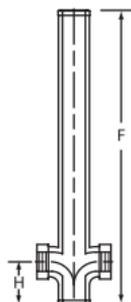
Size	D	E	F	Weight
1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>4</sub>	2 <sup>9</sup> / <sub>16</sub>	5 <sup>11</sup> / <sub>16</sub>	3.4
2 x 1 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>4</sub>	2 <sup>13</sup> / <sub>16</sub>	5 <sup>11</sup> / <sub>16</sub>	3.8
2 x 1 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>4</sub>	2 <sup>13</sup> / <sub>16</sub>	5 <sup>11</sup> / <sub>16</sub>	3.8
2 x 2	3 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>8</sub>	5.3
3 x 1 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>16</sub>	5 <sup>11</sup> / <sub>16</sub>	4.4
3 x 2	3 <sup>3</sup> / <sub>4</sub>	3 <sup>9</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>8</sub>	6.1
4 x 1 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	5 <sup>11</sup> / <sub>16</sub>	5.4
4 x 2	3 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>8</sub>	6.9



**PART NO. EZS 18**

**2" x 22<sup>7</sup>/<sub>8</sub>" Extended Tapped  
Sanitary Cross**

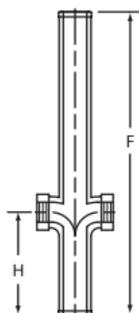
Size	H	F	Weight
2 x 1 <sup>1</sup> / <sub>2</sub> x 22 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>4</sub>	22 <sup>7</sup> / <sub>8</sub>	11.1
2 x 2 x 22 <sup>7</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	22 <sup>7</sup> / <sub>8</sub>	11.8



**PART NO. EZS 28**

**Sanitary Tapped Cross**

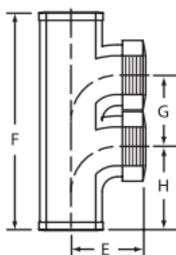
Size	H	F	Weight
2 x 1 <sup>1</sup> / <sub>2</sub> x 31	11 <sup>1</sup> / <sub>4</sub>	31	14.2
2 x 2 x 31	11 <sup>1</sup> / <sub>4</sub>	31	14.5



**PART NO. NH 35B**

**Double Vertical Sanitary  
Tapped Tee**

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

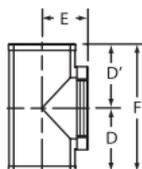


**PART NO. NH 36**

**Test Tee Less Plug**

**and PART NO. NH 36S**

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

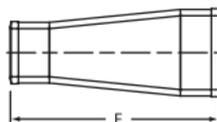


Size	IPS Tap	E	F	D	D'	NH 36 Weight	NH 36S Weight
2	2	2	6 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	2.8	3.1
3	3	2 <sup>1</sup> / <sub>16</sub>	7 <sup>3</sup> / <sub>4</sub>	3 <sup>7</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>8</sub>	5.6	6.1
4	4	3	8 <sup>7</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>16</sub>	8.9	10.0
5	5	4 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>4</sub>	5 <sup>3</sup> / <sub>4</sub>	14.9	16.2
6	6	5	12 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	21.4	23.6
8	8	6	15 <sup>1</sup> / <sub>4</sub>	7 <sup>5</sup> / <sub>8</sub>	7 <sup>5</sup> / <sub>8</sub>	33.1	37.3
10	10	6 <sup>1</sup> / <sub>2</sub>	20	10	10	56.2	-

**PART NO. NH 40**

**Increaser-Reducer**

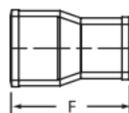
Size	F	Weight
2 x 3	8	3.3
2 x 4	8	4.4
3 x 4	8	5.0



**PART NO. NH 40A**

**Short Reducer**

Size	F	Weight
2 x 1½	3 <sup>5</sup> / <sub>8</sub>	1.1
3 x 1½	3 <sup>5</sup> / <sub>8</sub>	1.6
3 x 2	3 <sup>5</sup> / <sub>8</sub>	1.8
4 x 2	3 <sup>5</sup> / <sub>8</sub>	2.2
4 x 3	3 <sup>5</sup> / <sub>8</sub>	2.2
5 x 2	4	3.3
5 x 3	4	3.6
5 x 4	4	3.1
6 x 2	4	4.0
6 x 3	4	3.9
6 x 4	4	3.9
6 x 5	4½	4.3
8 x 2	4½	6.9
8 x 3	4½	7.1
8 x 4	4½	7.8
8 x 5	5	7.4
8 x 6	5	7.9
10 x 4	5½	13.8
10 x 6	6	13.3
10 x 8	6	14.7
12 x 4	6½	18.4
12 x 6	6½	18.0
12 x 8	7	17.1
12 x 10	7½	18.9
15 x 4	7	33.0
15 x 6	7	32.3
15 x 8	7	32.2
15 x 10	7½	31.8
15 x 12	7¾	30.4

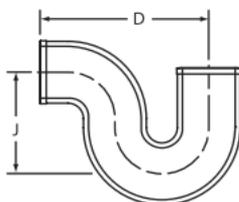


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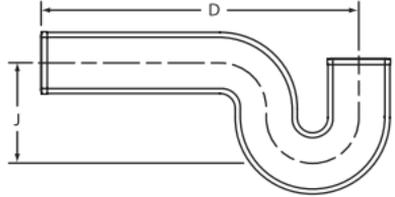
**PART NO. NH 42**

**P-Trap**

Size	D	J	Weight
1½	6¾	3½	3.1
2	7½	4	4.6
3	9	5½	8.4
4	10½	6½	15.7
6	14	8½	32.8



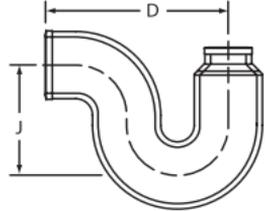
**PART NO. NH 42**



**Long P-Trap**

Size	D	J	Weight
2 x 12	12	4	6.2
2 x 18	18	4	8.0

**PART NO. NH 42A**

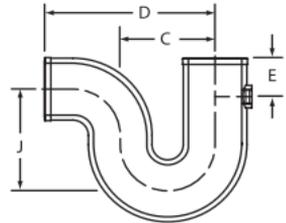


**P-Trap, Reducing**

Size	D	J	Weight
3 x 2	9	5 1/2	9.0

**PART NO. NH 42B**

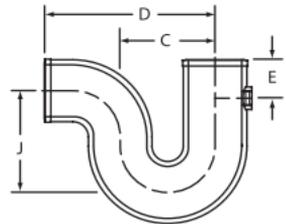
**P Trap with 1/2" Tap in Heel**



Size	C	D	E	J	Weight
6	8	14	2 3/4	8 1/2	32.5

**PART NO. NH 43**

**P Trap with 1/2" Tap in Heel**

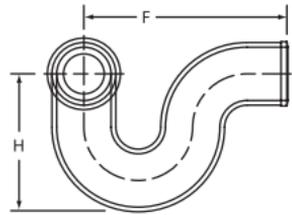


Size	C	D	E	J	Weight
2	4	7 1/2	2	4	5.0
3	5	9	2	5 1/2	10.8
4	6	10 1/2	2	6 1/2	15.3

**PART NO. EZS 9**

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

Size	H	F	Weight
2	5 3/16	7 1/2	6.3

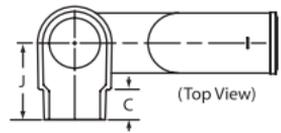


(Illustration Shows Right Hand)

**PART NO. EZS 10**

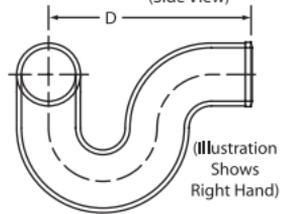
**P-Trap with 2" Side Inlet**

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



(Top View)

(Side View)

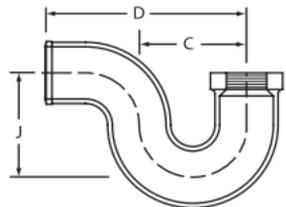


(Illustration Shows Right Hand)

**PART NO. NH 44**

**P-Trap with Tapped Inlet**

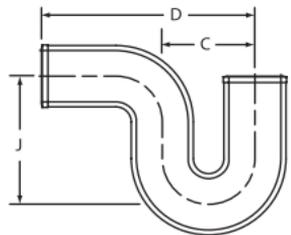
Size	C	D	J	Weight
2 x 1 1/2	4	7 1/2	4	4.5
2 x 2	4	7 1/2	4	5.5



**PART NO. NH 44A**

**Deep Seal P Trap**

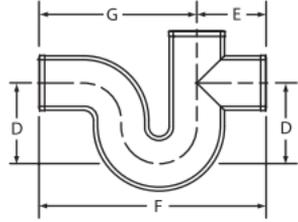
Size	C	D	J	Weight
2	4	7 1/2	7	7.0
3	5	9	7	10.9
4	6	10 1/2	8	18.0



**PART NO. NH 45**

**Running Trap with Vent**

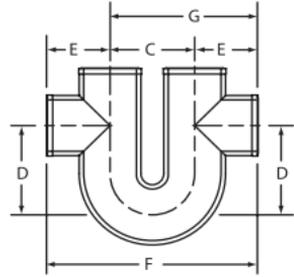
Size	D	E	F	G	Weight
4	6½	4½	15	10½	20.0



**PART NO. NH 45A**

**Running Trap with Double Vent**

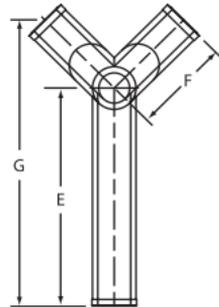
Size	C	D	E	F	G	Weight
4	6	6½	4½	15	10½	20.7



**PART NO. EZS 13**

**45° Vented Tub Wye**

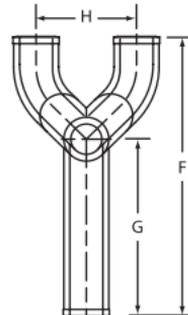
Size	E	F	G	Weight
2	12	5¼	15¾	10.0



**PART NO. EZS 38**

**Vented Tub Wye**

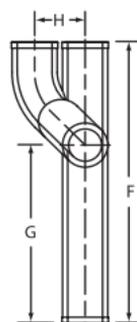
Size	G	H	F	Weight
2	9½	5¼	15	9.5
2	24	5¼	29½	14.0



**PART NO. EZS 38 L**

**Vented Tub Wye  
Left Hand**

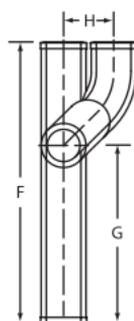
Size	G	H	F	Weight
2	9 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	15	9.4



**PART NO. EZS 38 R**

**Vented Tub Wye  
Right Hand**

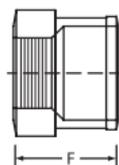
Size	G	H	F	Weight
2	9 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	15	9.0



**PART NO. NH 48**

**Tapped Adapters**

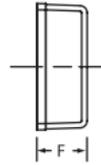
Size	F	IPS Tapping	Weight
1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub>	2 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	1.2
2 x 1 <sup>1</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>4</sub>	1.0
2 x 1 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	0.9
2 x 2	2 <sup>5</sup> / <sub>8</sub>	2	1.7
3 x 2	2 <sup>3</sup> / <sub>16</sub>	2	1.2



**PART NO. NH 50**

**Blind Plug**

Size	F	Weight
1½	1¾	0.6
2	1¾	0.6
3	1¾	1.1
4	1¾	2.0
5	1¾	2.9
6	1¾	3.2
8	2¼	6.3
10	3	12.7
12	3½	17.9
15	3½	30.4



**PART NO. NH 52**

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

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

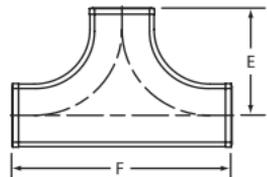
Size	F	IPS Tapping	NH 52 Weight	NH 52S Weight
2	2 <sup>3</sup> / <sub>16</sub>	1½	0.9	1.0
3	2 <sup>3</sup> / <sub>16</sub>	2½	1.9	2.3
4	2 <sup>3</sup> / <sub>16</sub>	3½	2.4	3.1
5	4½	4	6.0	6.9
6	4½	5	7.8	9.1
8	4½	6	11.4	13.7



**PART NO. NH 53**

**Single Two-Way Cleanout**

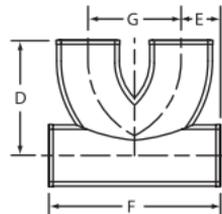
Size	E	F	Weight
4	7½	15	15.8



**PART NO. NH 53A**

**Two-Way Cleanout**

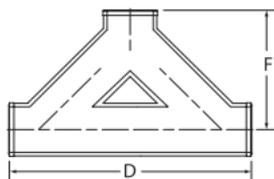
Size	D	E	F	G	Weight
4	8¼	2¾	12	6½	15.4



**PART NO. NH 54**

**Two-Way Baffle Cleanout**

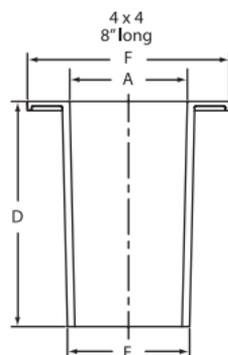
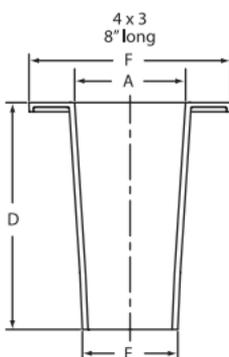
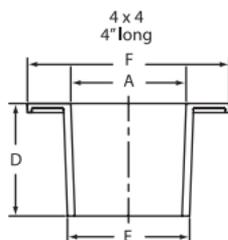
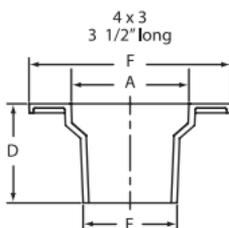
Size	D	F	Weight
3 x 3 x 4	15	9	15.1
4 x 4 x 4	18 <sup>3</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>2</sub>	24.2



**PART NO. NH 56**

**Notched and Slotted Closet Collar**

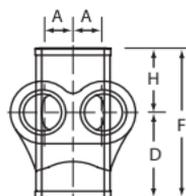
Size	D	E	F	A	Weight
4 x 3	3 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>4</sub>	4 <sup>7</sup> / <sub>32</sub>	3.3
4 x 3	8	3 <sup>27</sup> / <sub>64</sub>	7 <sup>1</sup> / <sub>4</sub>	4	6.0
4 x 4	4	4 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>4</sub>	4 <sup>9</sup> / <sub>64</sub>	4.8
4 x 4	8	4 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>4</sub>	4 <sup>7</sup> / <sub>32</sub>	7.2



**PART NO. NH 57**

**Horizontal Twin Tapped Tee**

Size	A	D	F	H	Weight
3 x 1 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>8</sub>	4	7	3	7.1
4 x 1 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>8</sub>	4	7	3	7.5

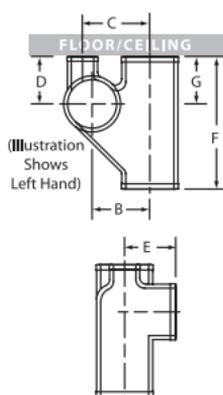


**PART NO. NH 457**

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

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

Size	B	C	D	E	F	G	Wt.
4x4x2x4(L)	4 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	4	10 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	11.9
4x4x2x4(R)	4 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	4	10 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	11.6

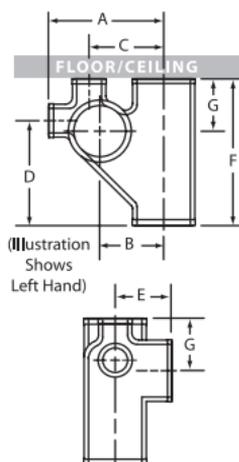


**PART NO. NH 458<sup>‡</sup>**

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

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

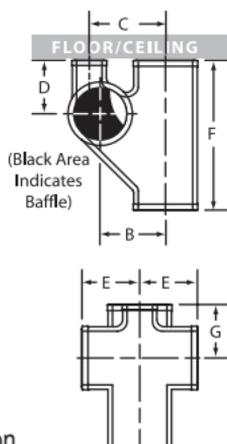
Size	A	B	C	D	E	F	G	Wt.
4x4x2x2x4(L)	8 <sup>1</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>2</sub>	4	10 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	12.3
4x4x2x2x4(R)	8 <sup>1</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>2</sub>	4	10 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	12.1



**PART NO. NH 463**

**Vented Closet Cross with 2" Top Vent**  
(Designed for use below the floor;  
Fitting has a baffle)

Size	B	C	D	E	F	G	Wt
4x4x2x4x4	4 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	4	10 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	15.2

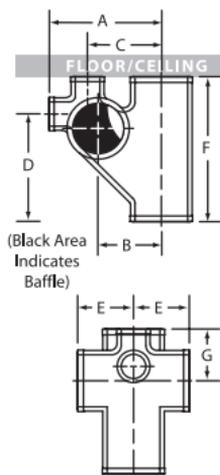


<sup>‡</sup> Additional drawing available in Detail Drawing Section

**PART NO. NH 464**

**Vented Closet Cross with 2" Top Vent  
and 2" Side Opening  
(Designed for use below the floor;  
Fitting has a baffle)**

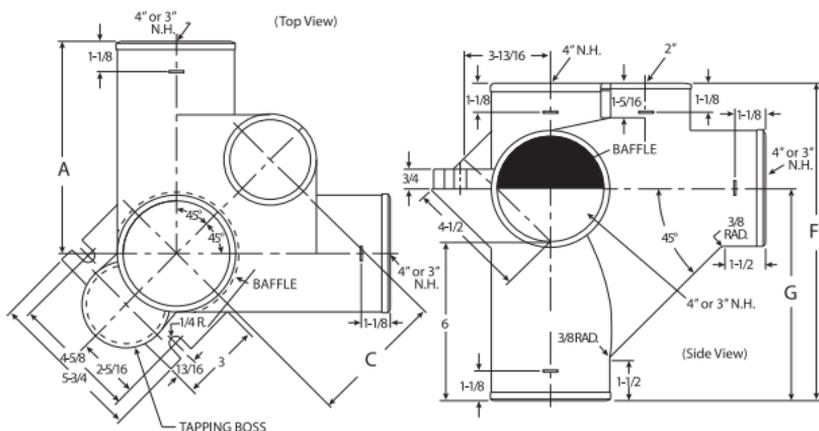
Size	A	B	C	D	E	F	G	Wt.
4x4x2x2x4x4	8 1/8	4 1/4	5 1/4	7 1/2	4	10 1/2	3 3/4	15.4



**PART NO. NH 502†**

**4" No Hub Prison Fitting with 2" Top Vent  
(Designed for use above the floor; Baffle helps prevent  
passage of contraband between cells)**

Part No.	Size	UPC# 611942-	A	C	F	G	Weight
NH 502	4 Less Tap	00639	8	5 1/4	12	8	22.2
NH 502	4 With Tap	00640	8	5 1/4	12	8	21.8
NH 502	4x3 Less Tap	11119	8	5 1/4	12	8	23.5
NH 502	4x3 With Tap	11120	8	5 1/4	12	8	22.9



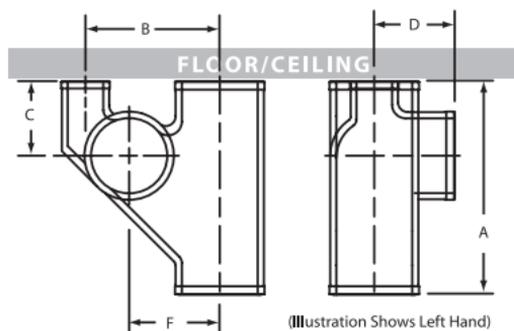
† Additional drawing available in Detail Drawing Section

**PART NO. EZS 50\***

**10'' Closet Fittings with 2'' Inlet**

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

Part No.	Size	UPC# 611942-	A	B	C	D	F	Weight
EZS 50D***	4	04484	10 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	4	4 <sup>1</sup> / <sub>2</sub>	13.4
EZS 50L	4	04476	10 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	4	4 <sup>1</sup> / <sub>2</sub>	12.2
EZS 50R	4	04477	10 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	4	4 <sup>1</sup> / <sub>2</sub>	12.2

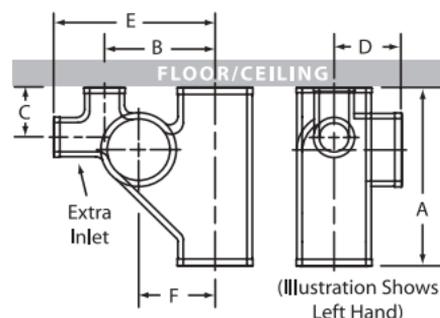


**PART NO. EZS 51\***

**10'' Closet Fittings with 2'' Inlet and 2'' Side Inlet**

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

Part No.	Size	UPC# 611942-	A	B	C	D	E	F	Weight
EZS 51D***	4	04424	10 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>2</sub>	3	4	9 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	13.9
EZS 51L	4	04425	10 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>2</sub>	3	4	9 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	12.5
EZS 51R	4	04473	10 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>2</sub>	3	4	9 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	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

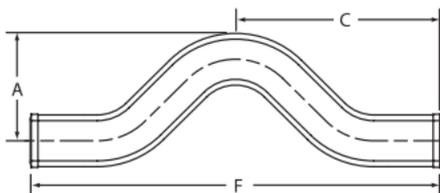
**Note: VENT CROSS-OVER**  
for use with EZS-50 through 800 Series fittings.  
Specify Right, Left, Plain or Double.

**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)

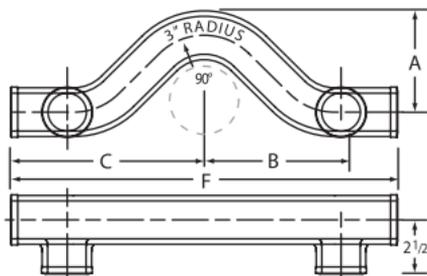
U.P.C. No.	Size	A	C	F	Weight
611942	2 x 18 <sup>3</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>16</sub>	18 <sup>3</sup> / <sub>8</sub>	8.1



## PART NO. EZS 7D

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

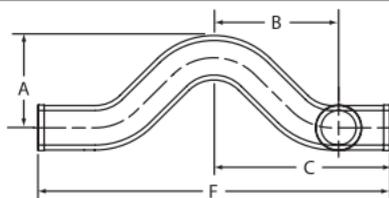
U.P.C. No.	Size	A	B	C	F	Weight
611942	2 x 18 <sup>3</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>16</sub>	18 <sup>3</sup> / <sub>8</sub>	8.1



**PART NO. EZS 7L**

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

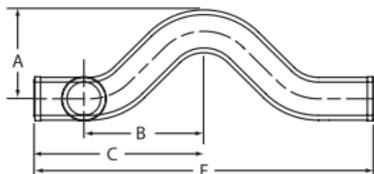
U.P.C. No. 611942	Size	A	B	C	F	Weight
04431	2 x 18 <sup>3</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>16</sub>	18 <sup>3</sup> / <sub>8</sub>	8.2



**PART NO. EZS 7R**

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

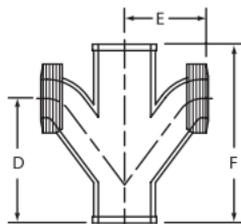
U.P.C. No. 611942	Size	A	B	C	F	Weight
04432	2 x 18 <sup>3</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>16</sub>	18 <sup>3</sup> / <sub>8</sub>	8.3



**PART NO. EZS 1**

**Figure One**

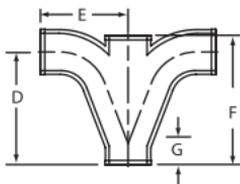
Size	E	F	D	Weight
2 x 1 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>16</sub>	7	4 <sup>7</sup> / <sub>8</sub>	4.5



**PART NO. NH 25**

**Figure Five Double Fixture Fitting**

Size	D	E	F	G	Weight
2	6 <sup>1</sup> / <sub>2</sub>	5	8	1 <sup>13</sup> / <sub>16</sub>	6.0
3	8 <sup>7</sup> / <sub>8</sub>	6 <sup>9</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>8</sub>	2	12.5
3 x 2 x 3 x 3	8 <sup>7</sup> / <sub>8</sub>	6 <sup>9</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>4</sub>	2	10.8
4	10 <sup>1</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	12	1 <sup>15</sup> / <sub>16</sub>	22.3
4 x 2 x 4 x 4	10 <sup>1</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>2</sub>	1 <sup>15</sup> / <sub>16</sub>	19.5



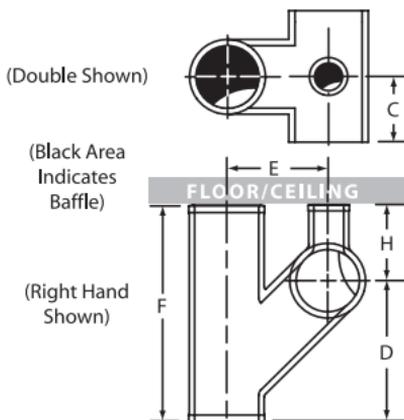
N O - H U B

**PART NO. EZS 6\***

**Figure Six**

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

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



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

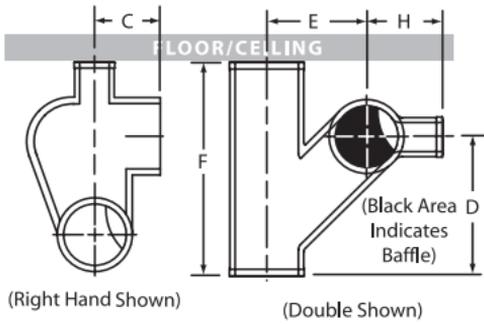
\*\* Double fitting has a baffle.

**PART NO. EZS 8\***

**Figure Eight**

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

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

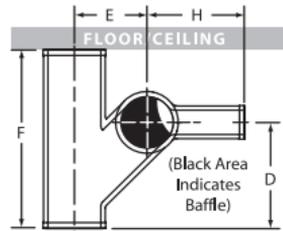


**PART NO. EZS 8A**

**Figure Eight Double Fixture Fitting, Extended\*\***

**(Designed for Use Below the Floor)**

Size	D	E	F	H	Weight
4 x 2	9	6 <sup>1</sup> / <sub>2</sub>	13	8	22.3



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

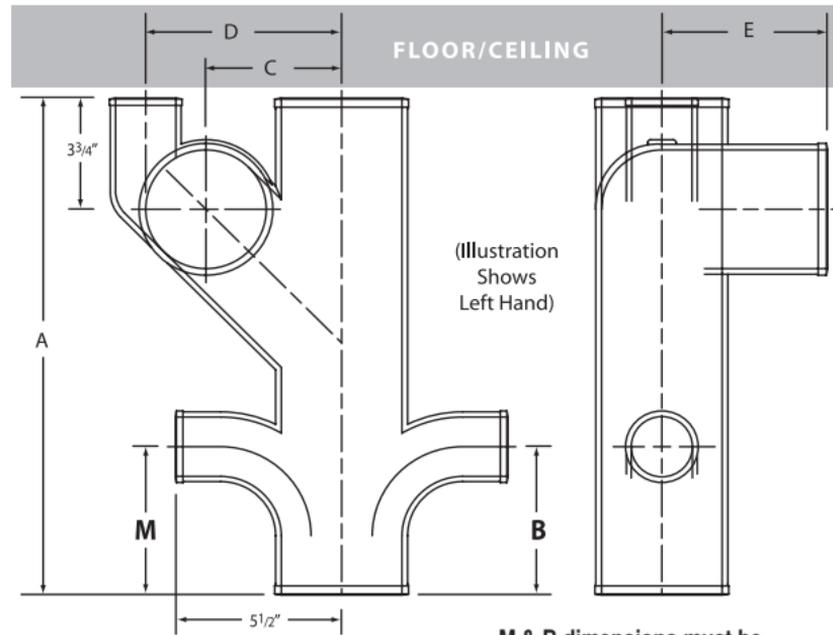
\*\* Double fitting has a baffle.

**PART NO. EZS 100\***

**16" Closet Fittings with 2" Inlets**

**[Double, Left Hand or Right Hand; Designed for use below the floor]**

Part No.	Size	A	B	C	D	E	M	Weight
EZS 100D	4x16	16 <sup>3</sup> / <sub>4</sub>	5	4 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	5	25.0
EZS 100L	4x16	16 <sup>3</sup> / <sub>4</sub>	5	4 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	5	20.1
EZS 100R	4x16	16 <sup>3</sup> / <sub>4</sub>	5	4 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	5	21.7



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

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

**PART NO. EZS 400\*†**

30" Closet Fittings with 2" Inlet

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

Part No.	Size	A	B	C	D	E	M	Weight
EZS 400L	4x30	30	0	4½	6½	5½	0	30.8
EZS 400L	4x30	30	6½	4½	6½	5½	0	34.2
EZS 400L	4x30	30	12	4½	6½	5½	0	37.8
EZS 400L	4x30	30	26½	4½	6½	5½	0	32.2
EZS 400L	4x30	30	0	4½	6½	5½	4	31.9
EZS 400L	4x30	30	26½	4½	6½	5½	4	34.0
EZS 400L	4x30	30	0	4½	6½	5½	6½	32.0
EZS 400L	4x30	30	6½	4½	6½	5½	6½	36.2
EZS 400L	4x30	30	26½	4½	6½	5½	6½	36.8
EZS 400L	4x30	30	0	4½	6½	5½	12	31.5
EZS 400L	4x30	30	26½	4½	6½	5½	12	35.7
EZS 400R	4x30	30	0	4½	6½	5½	0	30.6
EZS 400R	4x30	30	6½	4½	6½	5½	0	34.5
EZS 400R	4x30	30	12	4½	6½	5½	0	37.1
EZS 400R	4x30	30	26½	4½	6½	5½	0	31.5
EZS 400R	4x30	30	0	4½	6½	5½	4	32.0
EZS 400R	4x30	30	26½	4½	6½	5½	4	28.9
EZS 400R	4x30	30	0	4½	6½	5½	6½	31.6
EZS 400R	4x30	30	6½	4½	6½	5½	6½	35.4
EZS 400R	4x30	30	26½	4½	6½	5½	6½	33.3
EZS 400R	4x30	30	0	4½	6½	5½	12	32.3
EZS 400R	4x30	30	26½	4½	6½	5½	12	28.5

(EZS 400 is continued on the following page.)

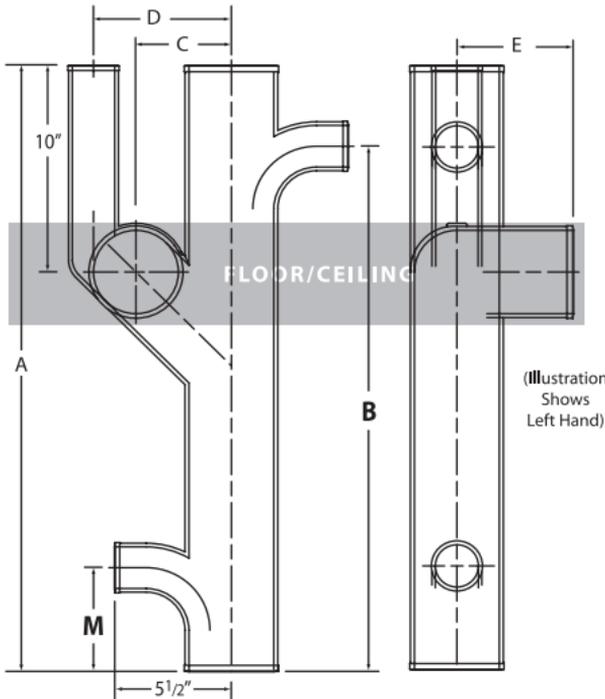
\* When ordering please specify Double, Left or Right.

† Additional drawing available in Detail Drawing Section

**PART NO. EZS 400, continued**

Part No.	Size	A	B	C	D	E	M	Weight
EZS 400D	4x30	30	0	4 1/2	6 1/2	5 1/2	0	33.0
EZS 400D	4x30	30	6 1/2	4 1/2	6 1/2	5 1/2	0	33.9
EZS 400D	4x30	30	12	4 1/2	6 1/2	5 1/2	0	39.6
EZS 400D	4x30	30	0	4 1/2	6 1/2	5 1/2	4	33.8
EZS 400D	4x30	30	0	4 1/2	6 1/2	5 1/2	6 1/2	34.3
EZS 400D	4x30	30	26 1/2	4 1/2	6 1/2	5 1/2	6 1/2	39.0
EZS 400D	4x30	30	0	4 1/2	6 1/2	5 1/2	12	34.5
EZS 400D	4x30	30	26 1/2	4 1/2	6 1/2	5 1/2	12	33.4

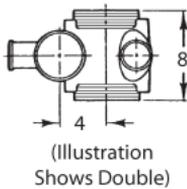
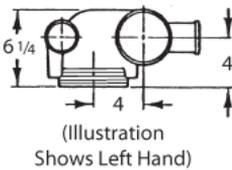
N O - H U B



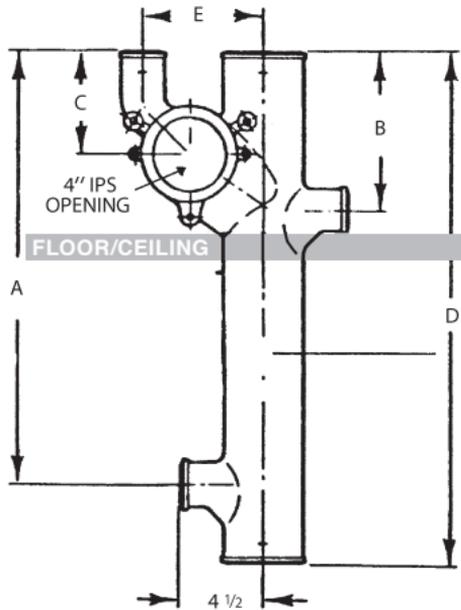
**PART NO. EZS 700\*\*†**

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

Part No.	Size	A	B	C	D	E	Weight
EZS 700D**	4x28	0	0	5½	28	6½	35.5
EZS 700D**	4x28	0	8½	5½	28	6½	36.4
EZS 700D**	4x28	23½	8½	5½	28	6½	42.0
EZS 700L	4x28	0	0	5½	28	6½	30.2
EZS 700L	4x28	0	8½	5½	28	6½	31.3
EZS 700L	4x28	14	8½	5½	28	6½	36.3
EZS 700L	4x28	23½	8½	5½	28	6½	36.2
EZS 700R	4x28	0	0	5½	28	6½	30.3
EZS 700R	4x28	0	8½	5½	28	6½	30.8
EZS 700R	4x28	14	8½	5½	28	6½	35.3
EZS 700R	4x28	23½	8½	5½	28	6½	32.4



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



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

2" inlets available

\*\* Double starter fittings have a baffle.

Note: Trim package not included in price of fitting

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

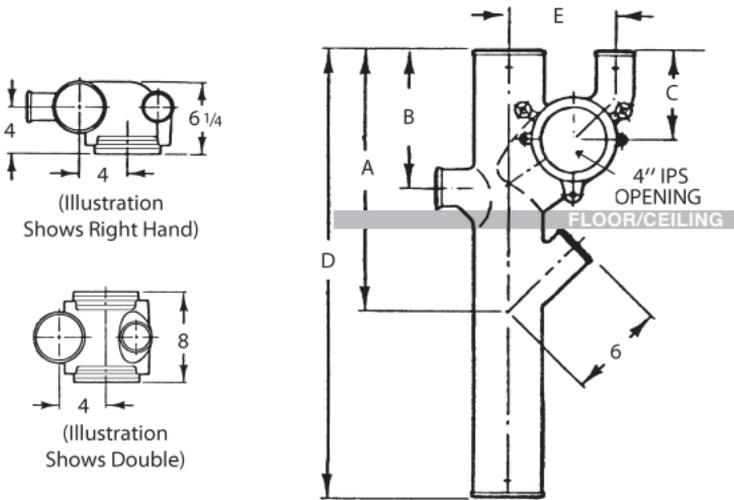
† Additional drawing available in Detail Drawing Section

**PART NO. EZS 800\*†**

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

Part No.	Size	A	B	C	D	E	Weight
EZS 800D**	4x28	16	0	5½	28	6½	36.2
EZS 800D**	4x28	16	8½	5½	28	6½	36.5
EZS 800L	4x28	16	0	5½	28	6½	31.0
EZS 800L	4x28	16	8½	5½	28	6½	31.5
EZS 800R	4x28	16	0	5½	28	6½	31.1
EZS 800R	4x28	16	8½	5½	28	6½	32.3

NO-HUB B



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

2" inlets available

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

\*\* Double starter fittings have a baffle.

Note: Trim package not included in price of fitting

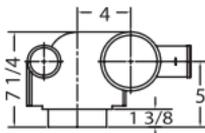
“O” dimension denotes the absence of the designated inlet.

† Additional drawing available in Detail Drawing Section

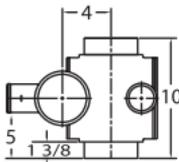
**PART NO. EZS 710\***

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

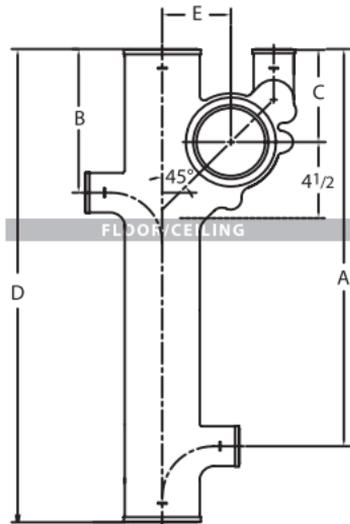
Part No.	Size	A	B	C	D	E	Weight
EZS 710D**	4x28	0	0	5½	28	4	36.3
EZS 710D**	4x28	0	8½	5½	28	4	37.0
EZS 710D**	4x28	23½	8½	5½	28	4	42.0
EZS 710L	4x28	0	0	5½	28	4	28.6
EZS 710L	4x28	0	8½	5½	28	4	26.8
EZS 710L	4x28	14	8½	5½	28	4	36.3
EZS 710L	4x28	23½	8½	5½	28	4	37.6
EZS 710R	4x28	0	0	5½	28	4	31.4
EZS 710R	4x28	0	8½	5½	28	4	34.0
EZS 710R	4x28	14	8½	5½	28	4	35.3
EZS 710R	4x28	23½	8½	5½	28	4	36.7



(Illustration Shows Left Hand)



(Illustration Shows Double)



2" inlets available

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

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

\*\* Double starter fittings have a baffle.

Note: Not designed for use with trim package

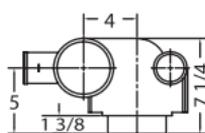
“0” dimension denotes the absence of the designated inlet.

**PART NO. EZS 810\***

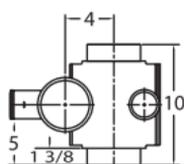
**No-Hub Starter Fitting with or without 2" No-Hub Inlets**  
**(Double, Left Hand or Right Hand; Designed for use above the floor with back-outlet water closets; Double starter fittings have a baffle)**

Part No.	Size	A	B	C	D	E	Weight
EZS 810D**	4x28	16	0	5½	28	6½	42.0
EZS 810D**	4x28	16	8½	5½	28	6½	44.0
EZS 810L	4x28	16	0	5½	28	6½	31.7
EZS 810L	4x28	16	8½	5½	28	6½	32.6
EZS 810R	4x28	16	0	5½	28	6½	32.6
EZS 810R	4x28	16	8½	5½	28	6½	32.7

NO-HUB

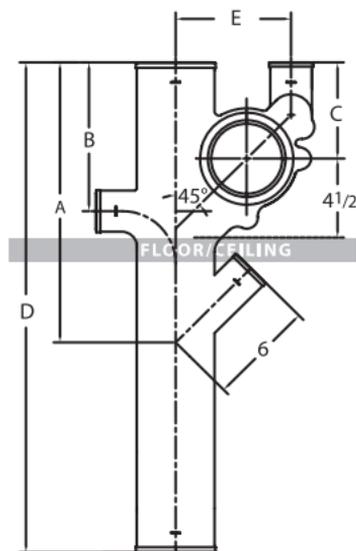


(Illustration Shows Right Hand)



(Illustration Shows Double)

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



2" inlets available

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

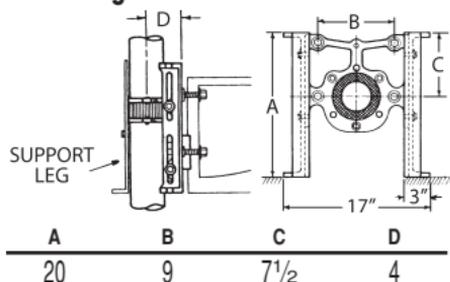
\*\* Double starter fittings have a baffle.

Note: Not designed for use with trim package

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

**MOUNTING HARDWARE**

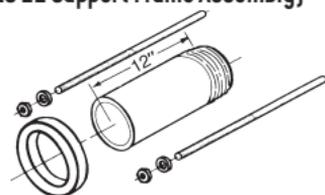
**PART NO. EZS 22**  
**Trim Package, Support Frame Assembly**



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

**PART NO. EZS 23**  
**Trim Package, Floor-Mounted Back-Outlet Assembly**

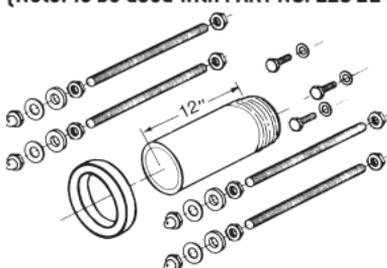
(Note: Not to be used with PART NO. EZS 22 Support Frame Assembly)



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

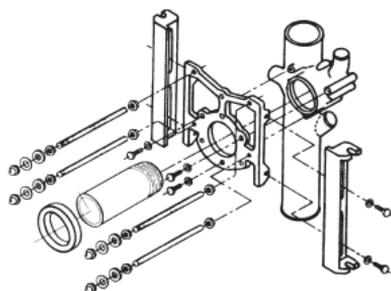
**PART NO. EZS 24**  
**Trim Package, Wall-Hung Back-Outlet Assembly**

(Note: To be used with PART NO. EZS 22 Support Frame Assembly)



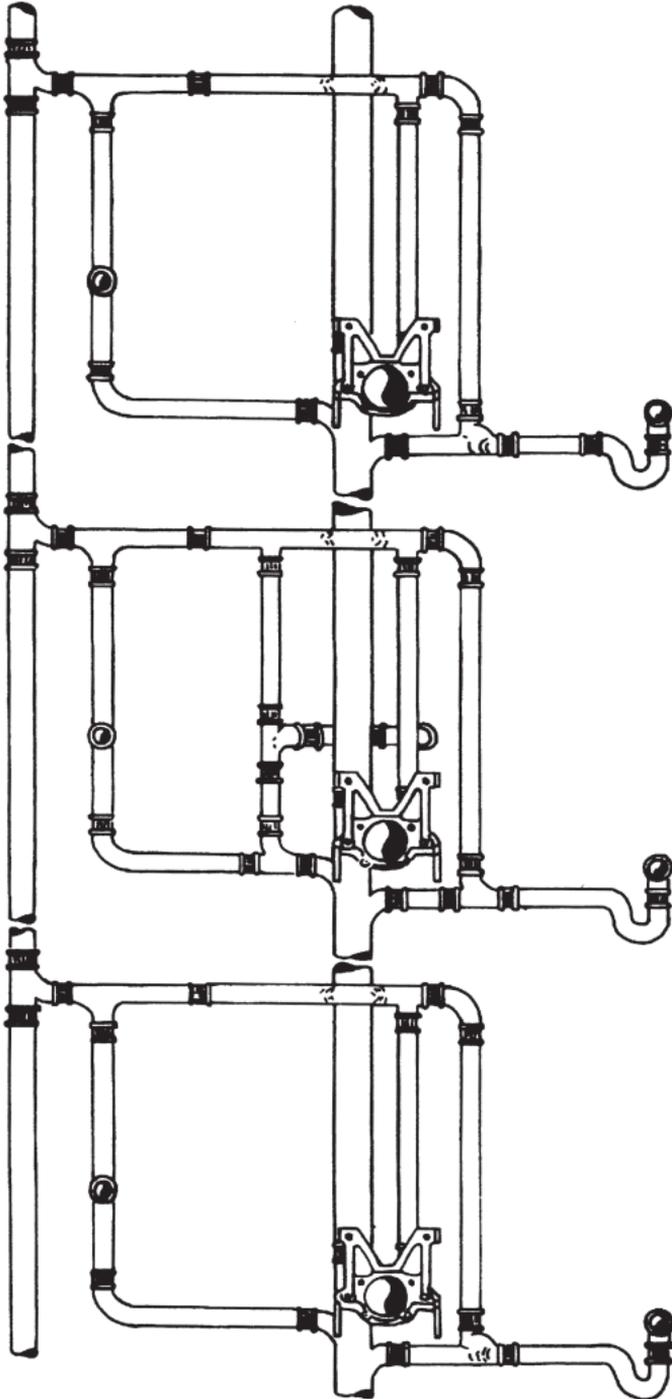
- 1—4" PVC Sch. 80 NIPPLE with TEST CAP
- 1—BOWL GASKET
- 4—5/8" x 12" RODS
- 4—5/8" CHROME CAP NUTS
- 8—5/8" JAM NUTS
- 4—5/8" FLAT WASHERS
- 4—5/8" FIBER WASHERS
- 3—3/8" x 1 1/2" BOLTS FOR FACEPLATE
- 3—3/8" FLAT WASHERS
- 4—5/8" STAR WASHERS

**Exploded View of Support Assembly Hardware**



**EZS 22 and EZS 24 Assemblies Illustrated**

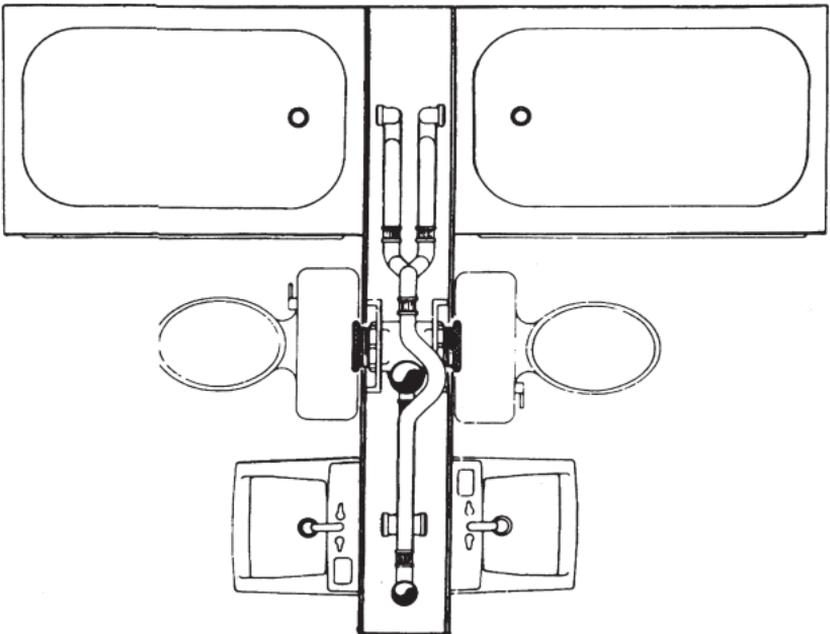
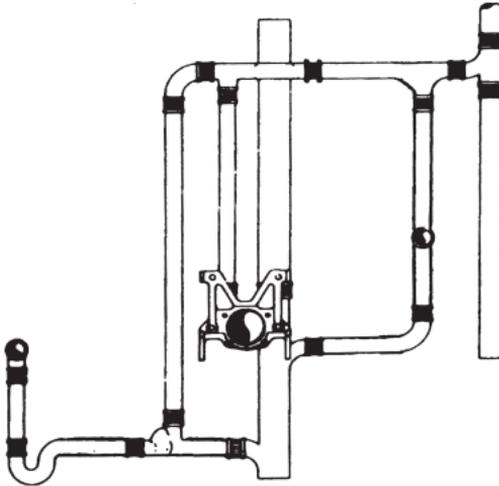
**TYPICAL HIGH-RISE BUILDING INSTALLATION**



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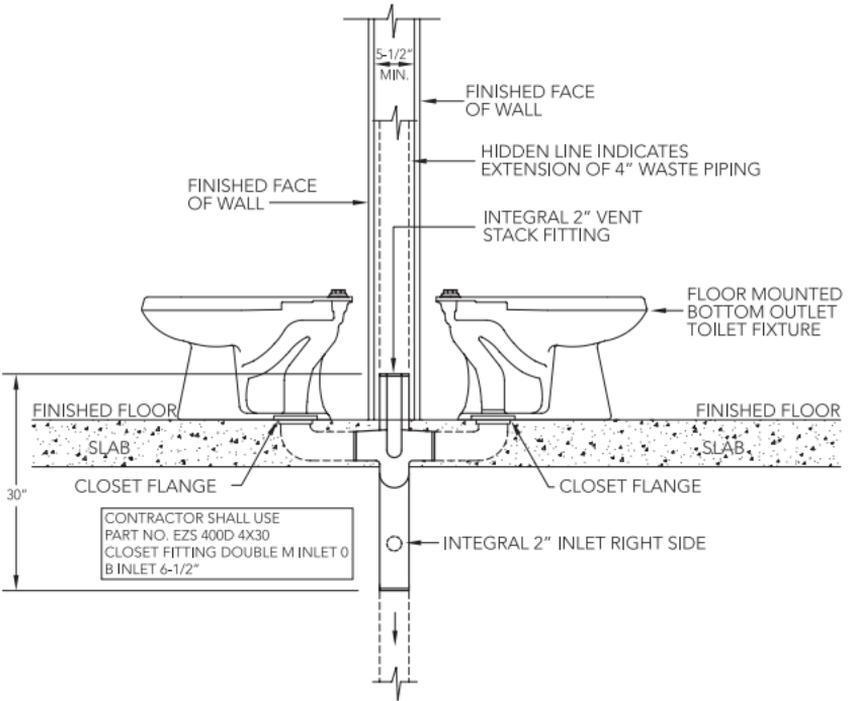
### TYPICAL BACK-TO-BACK INSTALLATION

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



**PART NO. EZS 400D**

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

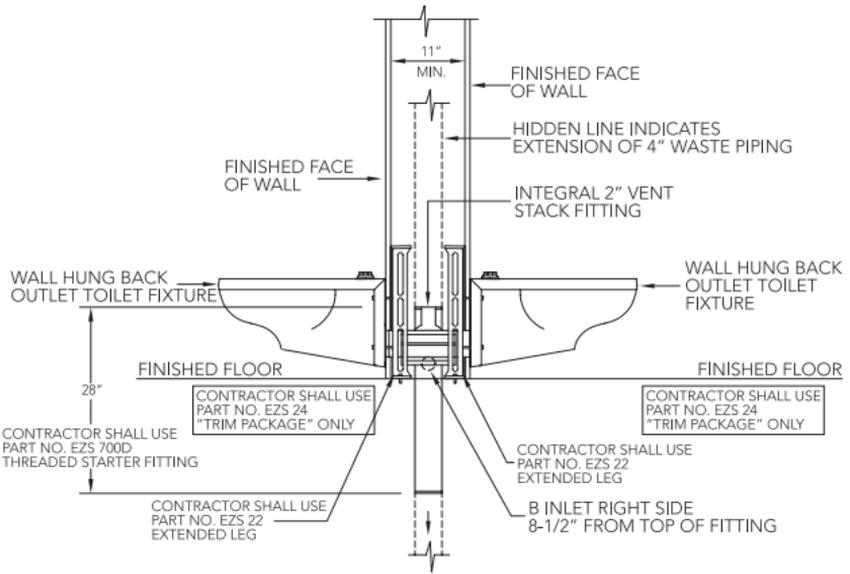


DOUBLE FITTING IN-SLAB - LEFT SIDE ELEVATION

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**PART NO. EZS 700D**

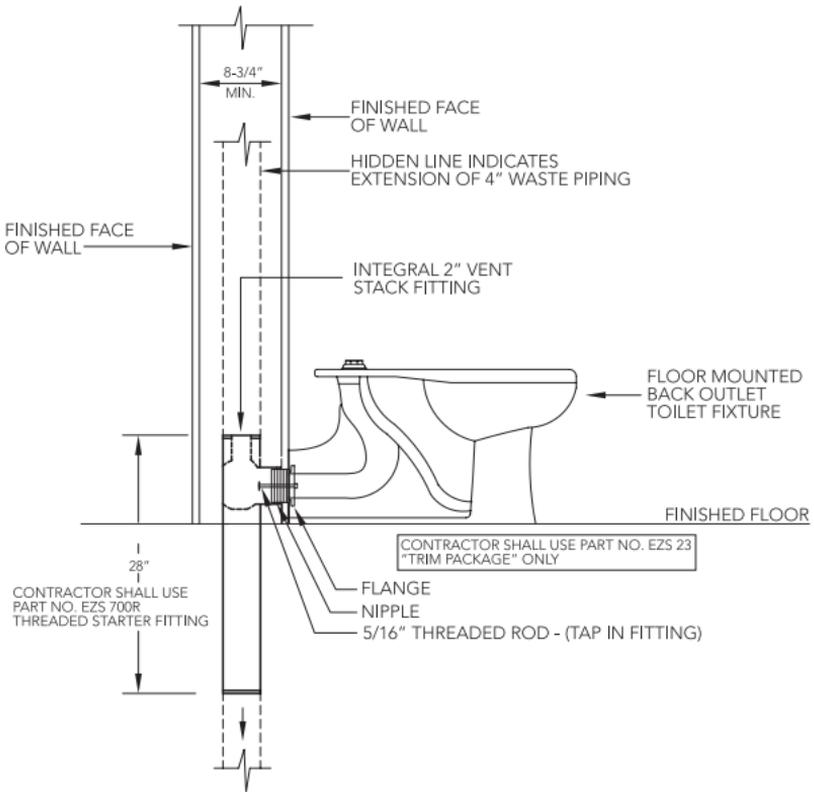
**Charlotte Pipe Starter Fitting  
4x28 Threaded Double - A Inlet 0; B Inlet 8 1/2"**  
**with EZS 22 Support Frame and EZS 24 Trim Package**



DOUBLE FITTING - LEFT SIDE ELEVATION

**PART NO. EZS 700R**

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

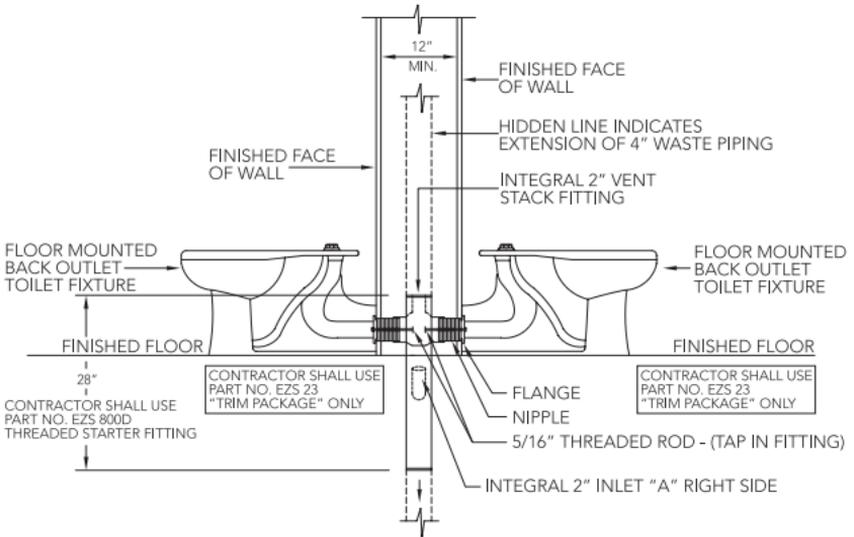


DETAIL DRAWINGS

RIGHT HAND FITTING - LEFT SIDE ELEVATION

**PART NO. EZS 800D**

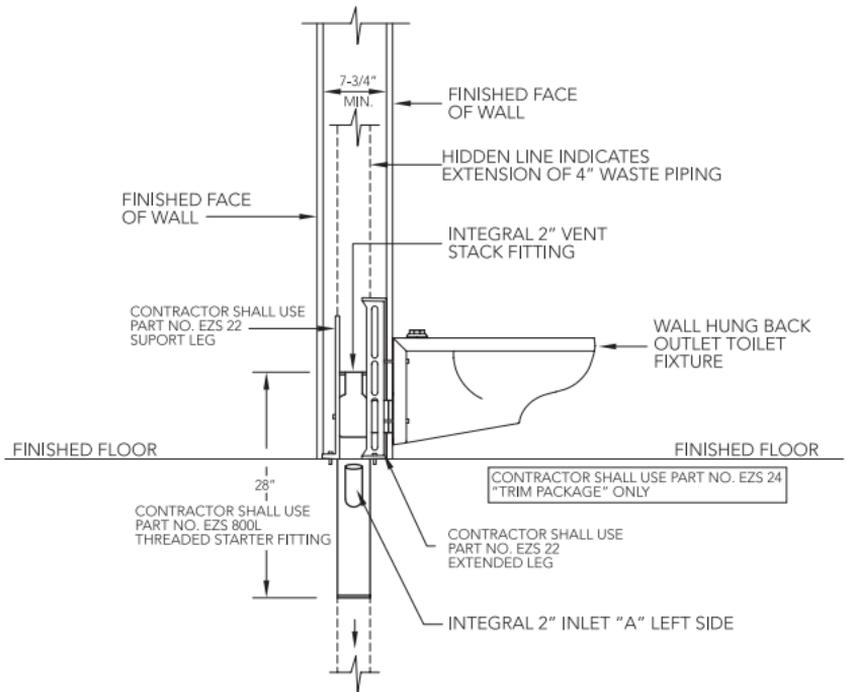
**Charlotte Pipe Starter Fitting  
4x28 Threaded Double - A Inlet 16; B Inlet 0  
with EZS 23 Trim Package**



DOUBLE FITTING - LEFT SIDE ELEVATION

**PART NO. EZS 800L**

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

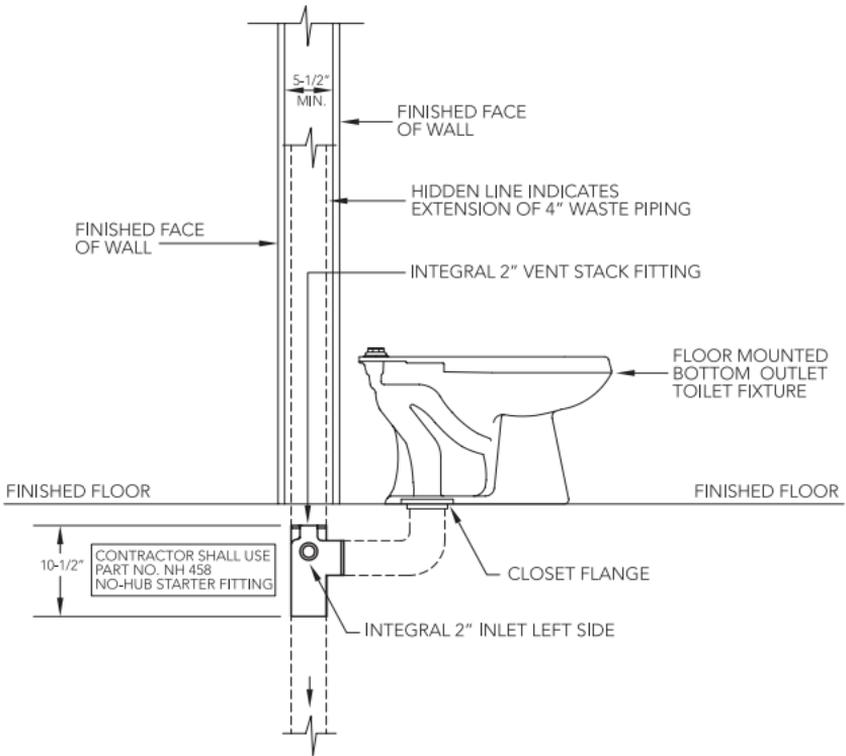


DETAIL DRAWINGS

LEFT HAND FITTING - LEFT SIDE ELEVATION

**PART NO. NH 458**

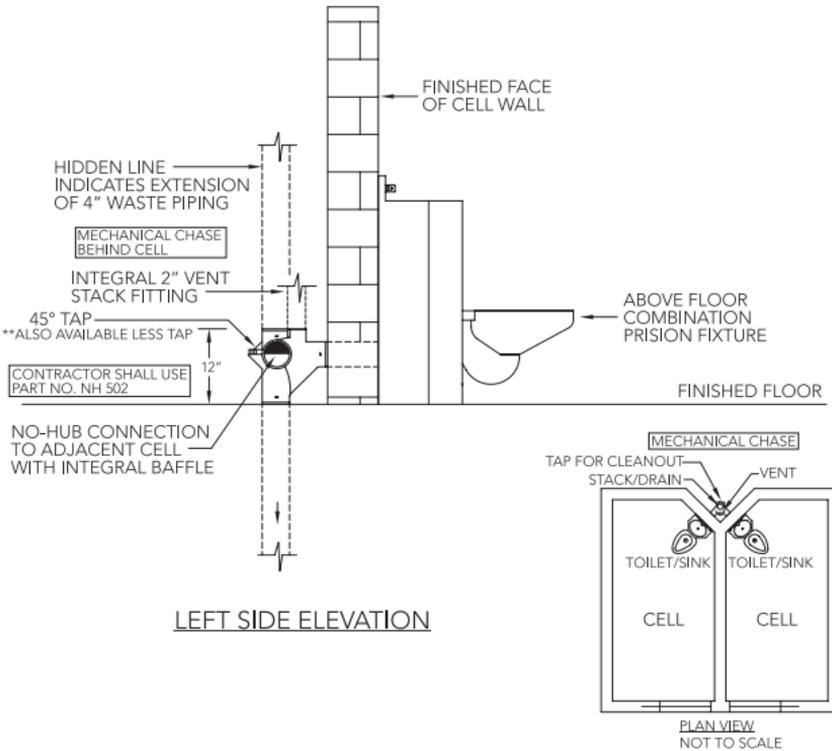
**Charlotte Pipe Starter Fitting  
4x4x2x2x4 Vented Closet Tee, Left Hand,  
with 2" Top Vent and 2" Side Inlet**



SINGLE FITTING LEFT HAND UNDER-SLAB - LEFT SIDE ELEVATION

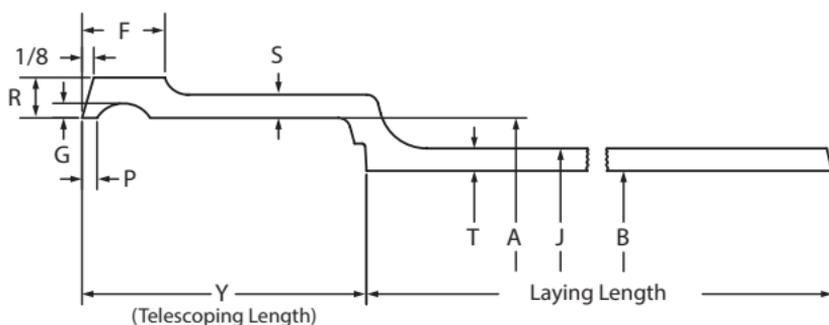
**PART NO. NH 502**

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



**DETAIL  
DRAWINGS**

# Service



## PIPE - SERVICE\*

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

## CHARLOTTE® SPEED-PAK FIVE FOOT PIPE BUNDLES

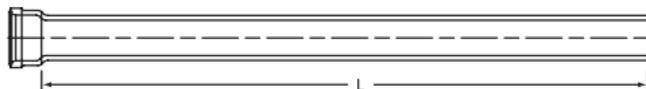
SERVICE				
Single Hub	SIZE	PIECES	WEIGHT	HEIGHT
	2"	100	2380	20"
	3"	60	1910	22"
	4"	46	1904	25"
	5"	33	1750	31"
	6"	23	1591	31"
	8"	11	1111	30"
	10"	8	1207	27"
	12"	6	1184	31"
	15"	2	605	34"

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

**CHARLOTTE®** *SPEED-PAK*  
**TEN FOOT PIPE BUNDLES**

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

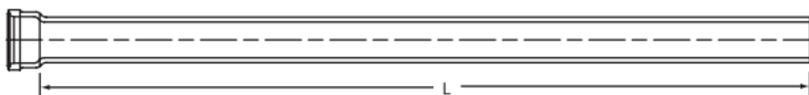
**PART NO. SV 1**



**Pipe, 5' Lengths, Single Hub**

Size	L	Weight
2" x 5'	5'	23.8
3" x 5'	5'	31.8
4" x 5'	5'	44.3
5" x 5'	5'	57.1
6" x 5'	5'	69.2
8" x 5'	5'	101.0
10" x 5'	5'	150.9
12" x 5'	5'	197.3
15" x 5'	5'	302.7

Weights are approximate and are for shipping purposes only.

**PART NO. SV 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'	105.7
6" x 10'	10'	122.8
8" x 10'	10'	189.9
10" x 10'	10'	276.1
12" x 10'	10'	345.9
15" x 10'	10'	525.1

**PART NO. SV 4****Pipe, 30" Lengths, Double Hub**

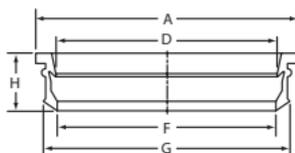
Size	L	Weight
2" x 30"	25"	13.4
3" x 30"	24 <sup>1</sup> / <sub>2</sub> "	18.7
4" x 30"	24"	25.6
6" x 30"	24"	38.7



**PART NO. SV 900**

**Service Weight Charlotte Seal Gasket**

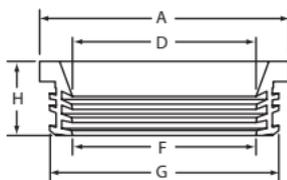
Size	A	D	F	G	H	Weight
2	3 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>31</sup> / <sub>32</sub>	0.3
3	4 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>8</sub>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



**PART NO. SV 950**

**Service Weight Quik-Tite Gasket**

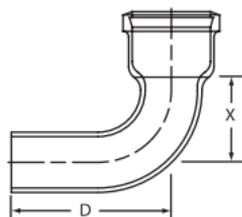
Size	A	D	F	G	H	Weight
2	3 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>16</sub>	2	3 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>32</sub>	0.3
3	4 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>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



## PART NO. SV 5

**Quarter Bend  
 (90° Ell)**

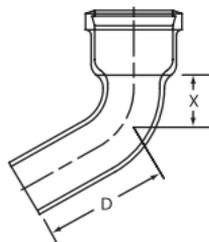
Size	D	X	Weight
2	6	3 $\frac{1}{4}$	5.0
3	7	4	7.6
4	8	4 $\frac{1}{2}$	13.4
5	8 $\frac{1}{2}$	5	15.8
6	9	5 $\frac{1}{2}$	20.5
8	11 $\frac{1}{2}$	6 $\frac{5}{8}$	39.2
10	12 $\frac{1}{2}$	7 $\frac{5}{8}$	58.9
12	15	8 $\frac{3}{4}$	90.9
15	(HX)	(HX)	(HX)



## PART NO. SV 7

**Sixth Bend  
 (60° Ell)**

Size	D	X	Weight
2	4 $\frac{3}{4}$	2	4.3
3	5 $\frac{1}{2}$	2 $\frac{1}{2}$	7.2
4	6 $\frac{5}{16}$	2 $\frac{13}{16}$	10.8
5	6 $\frac{5}{8}$	3 $\frac{1}{8}$	13.4
6	6 $\frac{7}{8}$	3 $\frac{3}{8}$	16.4
8	9	4 $\frac{1}{8}$	32.5

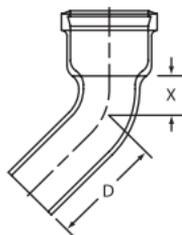


(HX) Please see Extra Heavy dimensions

**PART NO. SV 8**

**Eighth Bend  
(45° Ell)**

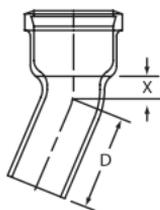
Size	D	X	Weight
2	4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	3.9
3	4 <sup>15</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	6.3
4	5 <sup>11</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	10.6
5	5 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	12.9
6	6 <sup>1</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>16</sub>	15.9
8	8	3 <sup>1</sup> / <sub>8</sub>	32.2
10	8 <sup>3</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	44.7
12	10 <sup>5</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>16</sub>	69.5
15	(XH)	(XH)	(XH)



**PART NO. SV 9**

**Sixteenth Bend  
(22 1/2° Ell)**

Size	D	X	Weight
2	3 <sup>5</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>	3.4
3	4 <sup>3</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>16</sub>	6.1
4	4 <sup>13</sup> / <sub>16</sub>	1 <sup>5</sup> / <sub>16</sub>	8.6
5	4 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	11.6
6	5	1 <sup>1</sup> / <sub>2</sub>	13.5
8	6 <sup>11</sup> / <sub>16</sub>	1 <sup>13</sup> / <sub>16</sub>	26.1
10	6 <sup>7</sup> / <sub>8</sub>	2	38.4
12	8 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	61.9
15	(XH)	(XH)	(XH)

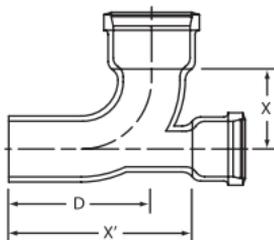


(HX) Please see Extra Heavy dimensions

## PART NO. SV 10

## Quarter Bend with Low Heel Inlet

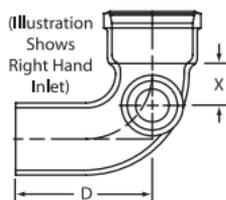
Size	D	X	X'	Weight
3 x 2	7	4	9	9.8
4 x 2	8	4½	10½	13.0



## PART NO. SV 12

## Quarter Bend with Side Opening

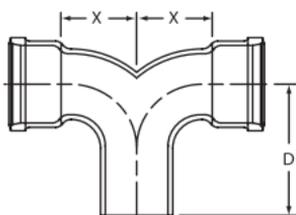
Size	D	X	Weight
4w2LH	8	3½	16.5
4w2RH	8	3½	16.5



## PART NO. SV 15

## Double Quarter Bend

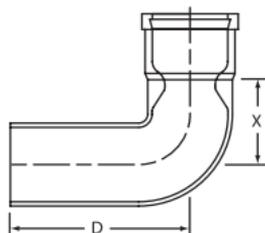
Size	D	X	Weight
4	8	4½	16.1



## PART NO. SV 18

## Reducing Quarter Bend

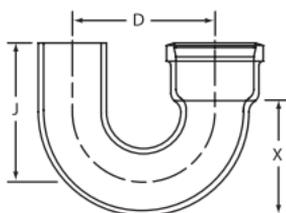
Size	D	X	Weight
3 x 2	7	3 <sup>3</sup> / <sub>8</sub>	6.3
4 x 2	7 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	11.4
4 x 3	8 <sup>1</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>	9.1



## PART NO. SV 23

## Single Hub Return Bend

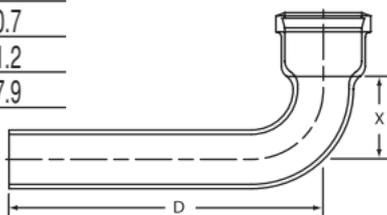
Size	D	X	J	Weight
3	5 <sup>5</sup> / <sub>8</sub>	5	5 <sup>7</sup> / <sub>8</sub>	9.8
4	7 <sup>1</sup> / <sub>2</sub>	6 <sup>11</sup> / <sub>32</sub>	7 <sup>3</sup> / <sub>16</sub>	17.0



## PART NO. SV 25

## Long Quarter Bend

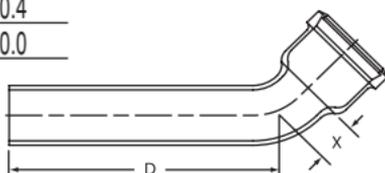
Size	D	X	Weight
2 x 12	12	3 <sup>1</sup> / <sub>4</sub>	6.6
3 x 12	12	4	9.9
4 x 12	12	4 <sup>1</sup> / <sub>2</sub>	14.9
4 x 16	16	4 <sup>1</sup> / <sub>2</sub>	20.7
4 x 18	18	4 <sup>1</sup> / <sub>2</sub>	21.2
4 x 24	24	4 <sup>1</sup> / <sub>2</sub>	27.9



## PART NO. SV 26

## Long Eighth Bend

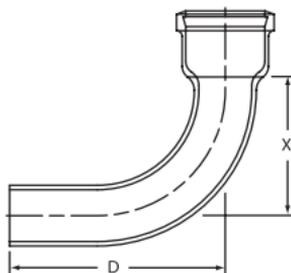
Size	D	X	Weight
2 x 12	12	1½	6.4
3 x 12	12	1 <sup>15</sup> / <sub>16</sub>	10.6
3 x 18	18	1 <sup>15</sup> / <sub>16</sub>	12.7
4 x 12	12	2 <sup>3</sup> / <sub>16</sub>	15.3
4 x 18	18	2 <sup>3</sup> / <sub>16</sub>	20.4
6 x 18	18	2 <sup>9</sup> / <sub>16</sub>	30.0



## PART NO. SV 29

## Short Sweep Bend

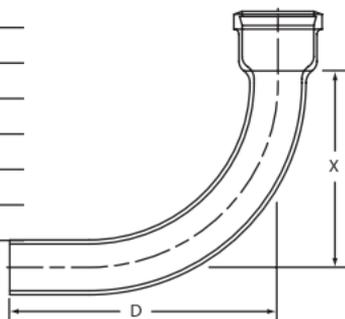
Size	D	X	Weight
2	8	5¼	6.1
3	9	6	9.3
4	10	6½	15.6
5	10½	7	20.3
6	11	7½	26.2
8	13½	8 <sup>5</sup> / <sub>8</sub>	39.5
10	14½	9 <sup>5</sup> / <sub>8</sub>	75.3
12	17	10 <sup>3</sup> / <sub>4</sub>	109.3



**PART NO. SV 30**

**Long Sweep Bend**

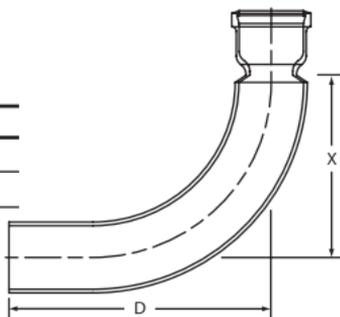
Size	D	X	Weight
2	11	8 <sup>1</sup> / <sub>4</sub>	7.5
3	12	9	11.8
4	13	9 <sup>1</sup> / <sub>2</sub>	19.7
5	13 <sup>1</sup> / <sub>2</sub>	10	24.9
6	14	10 <sup>1</sup> / <sub>2</sub>	29.5
8	16 <sup>1</sup> / <sub>2</sub>	11 <sup>5</sup> / <sub>8</sub>	54.2
10	17 <sup>1</sup> / <sub>2</sub>	12 <sup>5</sup> / <sub>8</sub>	82.6
12	20	13 <sup>3</sup> / <sub>4</sub>	103.5
15	(XH)	(XH)	(XH)



**PART NO. SV 31**

**Reducing Long Sweep Bend**

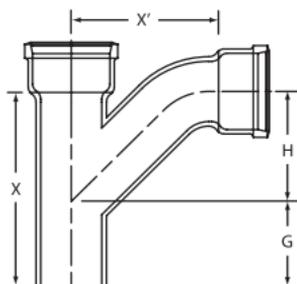
Size	D	X	Weight
3 x 2	12	9	11.2
4 x 3	13	9 <sup>1</sup> / <sub>2</sub>	17.6



**PART NO. SV 32**

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

Size	G	H	X	X'	Weight
4	5 <sup>7</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>8</sub>	11 <sup>3</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	20.8



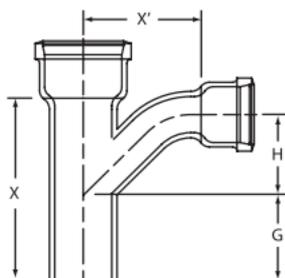
S  
E  
R  
V  
I  
C  
E

(XH) Please see Extra Heavy dimensions

## PART NO. SV 33

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

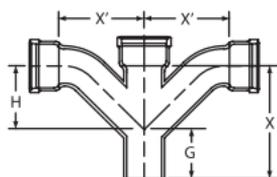
Size	G	H	X	X'	Weight
2 x 2	4	3 <sup>3</sup> / <sub>8</sub>	8	4 <sup>7</sup> / <sub>8</sub>	8.8
3 x 2	4 <sup>3</sup> / <sub>16</sub>	4	9	5 <sup>3</sup> / <sub>4</sub>	11.0
3 x 3	5	5 <sup>1</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>2</sub>	7	13.9
4 x 2	3 <sup>1</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	9	6 <sup>1</sup> / <sub>4</sub>	15.2
4 x 3	4 <sup>1</sup> / <sub>2</sub>	5 <sup>9</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>2</sub>	18.7
4 x 4	4 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>2</sub>	12	9	25.3
5 x 2	3 <sup>3</sup> / <sub>8</sub>	5	9	6 <sup>3</sup> / <sub>4</sub>	14.6
5 x 3	4	6 <sup>1</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>2</sub>	8	21.8
5 x 4	4 <sup>1</sup> / <sub>4</sub>	7 <sup>5</sup> / <sub>16</sub>	12	9 <sup>1</sup> / <sub>2</sub>	26.7
5 x 5	5 <sup>1</sup> / <sub>2</sub>	8 <sup>5</sup> / <sub>8</sub>	13 <sup>1</sup> / <sub>2</sub>	11	34.5
6 x 2	2 <sup>1</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	9	7 <sup>1</sup> / <sub>4</sub>	19.5
6 x 3	3 <sup>1</sup> / <sub>8</sub>	6 <sup>9</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	24.1
6 x 4	4 <sup>1</sup> / <sub>4</sub>	7 <sup>13</sup> / <sub>16</sub>	12	10	30.2
6 x 5	5 <sup>1</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>8</sub>	13 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>2</sub>	34.4
6 x 6	5 <sup>3</sup> / <sub>4</sub>	10 <sup>5</sup> / <sub>16</sub>	15	12 <sup>7</sup> / <sub>8</sub>	43.6
8 x 2	3 <sup>1</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>4</sub>	35.7
8 x 4	4 <sup>3</sup> / <sub>4</sub>	8 <sup>13</sup> / <sub>16</sub>	13 <sup>1</sup> / <sub>2</sub>	11	42.2
8 x 5	5 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>8</sub>	15	12 <sup>1</sup> / <sub>2</sub>	52.3
8 x 6	6 <sup>5</sup> / <sub>16</sub>	11 <sup>5</sup> / <sub>16</sub>	16 <sup>1</sup> / <sub>2</sub>	13 <sup>7</sup> / <sub>8</sub>	58.9
8 x 8	7 <sup>1</sup> / <sub>16</sub>	13 <sup>7</sup> / <sub>8</sub>	19 <sup>1</sup> / <sub>2</sub>	17	87.8



## PART NO. SV 35

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

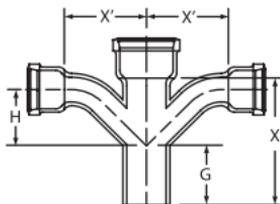
Size	G	H	X	X'	Weight
4	5 <sup>7</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>8</sub>	11 <sup>3</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	25.9



**PART NO. SV 35F**

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

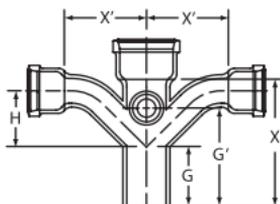
Size	G	H	X	X'	Weight
2 x 2	4	3 <sup>3</sup> / <sub>8</sub>	8	4 <sup>7</sup> / <sub>8</sub>	12.4
3 x 2	4 <sup>9</sup> / <sub>16</sub>	4	9	5 <sup>3</sup> / <sub>4</sub>	15.2
3 x 3	5	5 <sup>1</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>2</sub>	7	21.4
4 x 2	3 <sup>11</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	9	6 <sup>1</sup> / <sub>4</sub>	19.4
4 x 3	4 <sup>1</sup> / <sub>2</sub>	5 <sup>9</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>2</sub>	25.6
4 x 4	5 <sup>1</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>16</sub>	12	9	34.8
5 x 4	4 <sup>1</sup> / <sub>4</sub>	7 <sup>5</sup> / <sub>16</sub>	12	9 <sup>1</sup> / <sub>2</sub>	32.1
6 x 4	4 <sup>1</sup> / <sub>4</sub>	7 <sup>13</sup> / <sub>16</sub>	12	10	45.3
6 x 6	5 <sup>3</sup> / <sub>4</sub>	10 <sup>5</sup> / <sub>16</sub>	15	12 <sup>7</sup> / <sub>8</sub>	68.3



**PART NO. SV 35F**

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

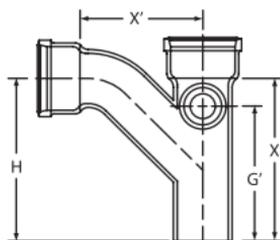
Size	G	G'	H	X	X'	Weight
4	4 <sup>1</sup> / <sub>4</sub>	10	6 <sup>13</sup> / <sub>16</sub>	12	9	40.3



**PART NO. SV 39A**

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

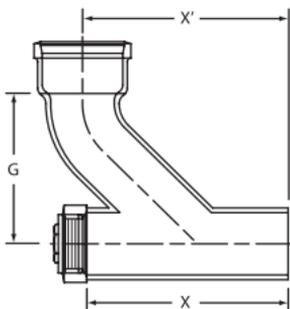
Size	G'	H	X	X'	Weight
4w/2RH	10	12 <sup>1</sup> / <sub>16</sub>	12	9	27.9
4w/2LH	10	12 <sup>1</sup> / <sub>16</sub>	12	9	28.8



**PART NO. SV 41**

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

Size	IPS Tap	G	X	X'	Weight
4	3 <sup>1</sup> / <sub>2</sub>	9	12 <sup>3</sup> / <sub>16</sub>	12 <sup>1</sup> / <sub>4</sub>	19.6

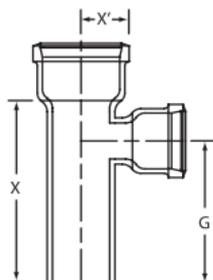


S  
E  
R  
V  
I  
C  
E

## PART NO. SV 42

## Straight Tee

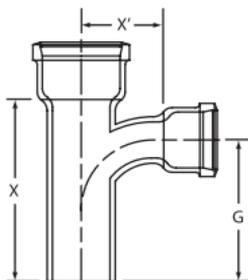
Size	G	X	X'	Weight
2 x 2	6 <sup>1</sup> / <sub>4</sub>	8	1 <sup>3</sup> / <sub>4</sub>	7.0
3 x 2	7	9	2 <sup>1</sup> / <sub>2</sub>	9.0
3 x 3	7 <sup>1</sup> / <sub>2</sub>	10	2 <sup>1</sup> / <sub>2</sub>	11.2
4 x 2	7	9	3	12.5
4 x 3	7 <sup>1</sup> / <sub>2</sub>	10	3	13.7
4 x 4	8	11	3	16.3
5 x 5	8 <sup>1</sup> / <sub>2</sub>	12	3 <sup>1</sup> / <sub>2</sub>	19.0
6 x 4	8	11	4	21.6
6 x 6	9	13	4	24.6
8 x 4	9 <sup>5</sup> / <sub>8</sub>	12 <sup>7</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>4</sub>	33.2



## PART NO. SV 43

## Sanitary Tee

Size	G	X	X'	Weight
2 x 2	6 $\frac{1}{4}$	8	2 $\frac{3}{4}$	8.0
3 x 2	7	9	4	10.8
3 x 3	7 $\frac{1}{2}$	10	4	11.9
4 x 2	7	9	4 $\frac{1}{2}$	13.9
4 x 3	7 $\frac{1}{2}$	10	4 $\frac{1}{2}$	16.3
4 x 4	8	11	4 $\frac{1}{2}$	18.0
5 x 4	8	11	5	19.3
5 x 5	8 $\frac{1}{2}$	12	5	22.8
6 x 2	7	9	5 $\frac{1}{2}$	16.7
6 x 3	7 $\frac{1}{2}$	10	5 $\frac{1}{2}$	21.0
6 x 4	8	11	5 $\frac{1}{2}$	22.7
6 x 6	9	13	5 $\frac{1}{2}$	28.8
8 x 4	9 $\frac{3}{4}$	13	6 $\frac{1}{2}$	36.5
8 x 6	10 $\frac{3}{4}$	15	6 $\frac{1}{2}$	44.3
8 x 8	11 $\frac{3}{4}$	17	6 $\frac{5}{8}$	54.0
10 x 4	9 $\frac{3}{4}$	13	7 $\frac{1}{2}$	52.0
10 x 6	10 $\frac{3}{4}$	15	7 $\frac{1}{2}$	60.3
10 x 8	11 $\frac{3}{4}$	17	7 $\frac{5}{8}$	72.0
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 $\frac{5}{8}$	94.6
12 x 10	14	20 $\frac{1}{2}$	8 $\frac{5}{8}$	107.0
12 x 12	15	22 $\frac{1}{2}$	8 $\frac{3}{4}$	124.6
15 x 6	12	16 $\frac{1}{2}$	10	135.6
15 x 8	13	18 $\frac{1}{2}$	10 $\frac{1}{8}$	158.9
15 x 12	15	22 $\frac{1}{2}$	10 $\frac{1}{4}$	189.6
15 x 15	(XH)	(XH)	(XH)	(XH)

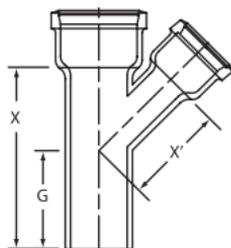


(XH) Please see Extra Heavy dimensions

## PART NO. SV 44

## Wye

Size	G	X	X'	Weight
2 x 2	4	8	4	8.2
3 x 2	4 <sup>9</sup> / <sub>16</sub>	9	5	10.6
3 x 3	5	10 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	12.2
4 x 2	3 <sup>5</sup> / <sub>8</sub>	9	5 <sup>3</sup> / <sub>4</sub>	14.5
4 x 3	4 <sup>7</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>	16.4
4 x 4	5 <sup>1</sup> / <sub>4</sub>	12	6 <sup>3</sup> / <sub>4</sub>	20.8
5 x 2	3 <sup>1</sup> / <sub>8</sub>	9	6 <sup>1</sup> / <sub>2</sub>	16.2
5 x 3	3 <sup>7</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>2</sub>	7	19.7
5 x 4	4 <sup>11</sup> / <sub>16</sub>	12	7 <sup>1</sup> / <sub>2</sub>	22.6
5 x 5	5 <sup>1</sup> / <sub>2</sub>	13 <sup>1</sup> / <sub>2</sub>	8	26.9
6 x 2	2 <sup>9</sup> / <sub>16</sub>	9	7 <sup>1</sup> / <sub>4</sub>	19.5
6 x 3	3 <sup>3</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>2</sub>	7 <sup>3</sup> / <sub>4</sub>	22.9
6 x 4	4 <sup>3</sup> / <sub>16</sub>	12	8 <sup>1</sup> / <sub>4</sub>	25.2
6 x 5	4 <sup>15</sup> / <sub>16</sub>	13 <sup>1</sup> / <sub>2</sub>	8 <sup>3</sup> / <sub>4</sub>	29.6
6 x 6	5 <sup>3</sup> / <sub>4</sub>	15	9 <sup>1</sup> / <sub>4</sub>	36.9
8 x 2	3 <sup>1</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>2</sub>	32.8
8 x 3	3 <sup>15</sup> / <sub>16</sub>	12	9	35.1
8 x 4	4 <sup>3</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>2</sub>	39.1
8 x 5	5 <sup>1</sup> / <sub>2</sub>	15	10	46.2
8 x 6	6 <sup>5</sup> / <sub>16</sub>	16 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>2</sub>	48.0
8 x 8	7 <sup>11</sup> / <sub>16</sub>	19 <sup>1</sup> / <sub>2</sub>	11 <sup>13</sup> / <sub>16</sub>	62.7
10 x 3	2 <sup>3</sup> / <sub>4</sub>	12	10 <sup>3</sup> / <sub>4</sub>	54.4
10 x 4	3 <sup>9</sup> / <sub>16</sub>	13 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>8</sub>	56.8
10 x 5	4 <sup>5</sup> / <sub>16</sub>	15	11 <sup>5</sup> / <sub>8</sub>	60.7
10 x 6	5 <sup>1</sup> / <sub>8</sub>	16 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>8</sub>	65.7
10 x 8	6 <sup>1</sup> / <sub>2</sub>	19 <sup>1</sup> / <sub>2</sub>	13 <sup>7</sup> / <sub>16</sub>	87.1
10 x 10	8	22 <sup>1</sup> / <sub>2</sub>	14 <sup>1</sup> / <sub>2</sub>	111.1
12 x 4	4 <sup>1</sup> / <sub>8</sub>	15	12 <sup>7</sup> / <sub>16</sub>	73.4
12 x 5	4 <sup>7</sup> / <sub>8</sub>	16 <sup>1</sup> / <sub>2</sub>	12 <sup>15</sup> / <sub>16</sub>	78.0
12 x 6	5 <sup>11</sup> / <sub>16</sub>	18	13 <sup>7</sup> / <sub>16</sub>	94.2
12 x 8	7 <sup>1</sup> / <sub>16</sub>	21	14 <sup>3</sup> / <sub>4</sub>	110.0
12 x 10	8 <sup>9</sup> / <sub>16</sub>	24	15 <sup>13</sup> / <sub>16</sub>	131.0
12 x 12	10 <sup>1</sup> / <sub>8</sub>	27	16 <sup>7</sup> / <sub>8</sub>	162.0
15 x 4	6 <sup>3</sup> / <sub>8</sub>	15	15	138.5
15 x 6	4	18	15 <sup>3</sup> / <sub>4</sub>	153.6
15 x 8	5 <sup>3</sup> / <sub>8</sub>	21	17 <sup>1</sup> / <sub>16</sub>	187.1
15 x 10	6 <sup>7</sup> / <sub>8</sub>	24	18 <sup>1</sup> / <sub>8</sub>	225.0
15 x 12	8 <sup>7</sup> / <sub>16</sub>	27	19 <sup>3</sup> / <sub>16</sub>	244.4
15 x 15	(XH)	(XH)	(XH)	(XH)

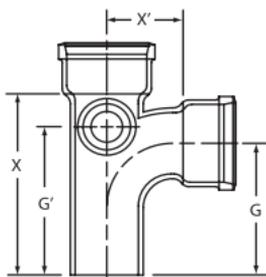


(XH) Please see Extra Heavy dimensions

**PART NO. SV 50**

**Sanitary Tee  
with Left Hand Side Tap**

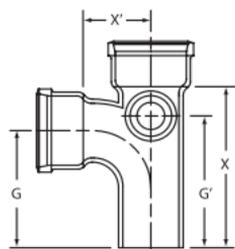
Size	G	G'	X	X'	Weight
4w/2	8	9	11	4 1/2	16.3



**PART NO. SV 50A**

**Sanitary Tee  
with Right Hand Side Tap**

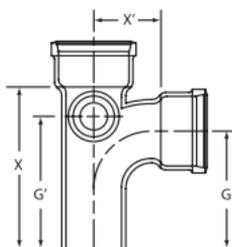
Size	G	G'	X	X'	Weight
4w/2	8	9	11	4 1/2	17.4



**PART NO. SV 50B**

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

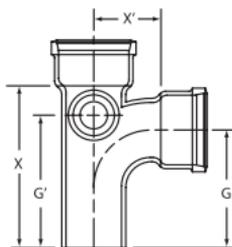
Size	G	G'	X	X'	Weight
4w/2	8	9	11	4 1/2	16.3



**PART NO. SV 56**

**Sanitary Tee with Left Hand Side Inlet**

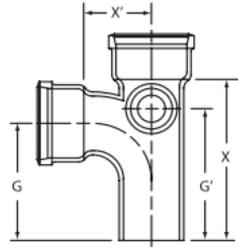
Size	G	G'	X	X'	Weight
4w/2	8	9	11	4 1/2	20.2



**PART NO. SV 56B**

**Sanitary Tee  
with Right Hand Side Inlet**

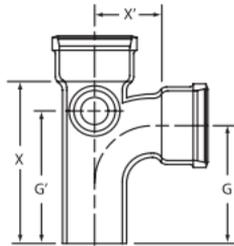
Size	G	G'	X	X'	Weight
4w/2	8	9	11	4 1/2	21.3



**PART NO. SV 56C**

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

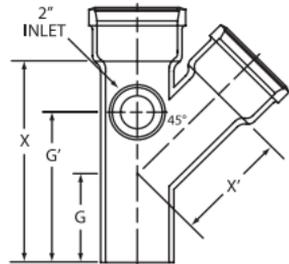
Size	G	G'	X	X'	Weight
4w/2	8	9	11	4 1/2	23.1



**PART NO. SV 57**

**Wye with Left Hand Side Inlet**

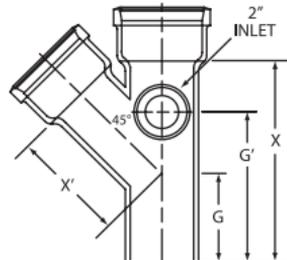
Size	G	G'	X	X'	Weight
4w/2	5 1/4	10	12	6 3/4	24.9



**PART NO. SV 57A**

**Wye with Right Hand Side Inlet**

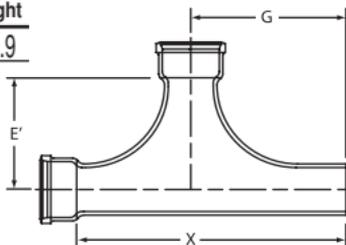
Size	G	G'	X	X'	Weight
4w/2	5 1/4	10	12	6 3/4	24.4



**PART NO. SV 71A**

**Single Two-Way Cleanout**

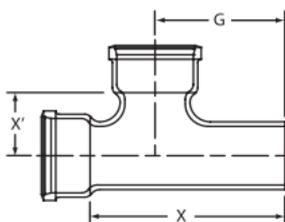
Size	X	E'	G	Weight
4	22 <sup>7</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>8</sub>	12 <sup>3</sup> / <sub>4</sub>	34.9



**PART NO. SV 71B**

**Short Special Two-Way Cleanout**

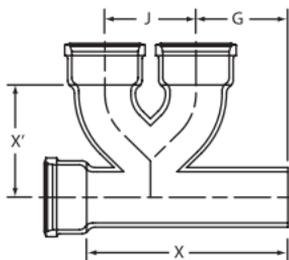
Size	G	X	X'	Weight
4	8	12	4	16.7



**PART NO. SV 72**

**Double Two-Way Cleanout**

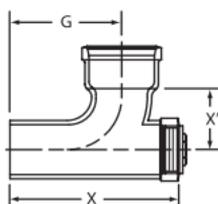
Size	G	J	X	X'	Weight
4	6 <sup>1</sup> / <sub>2</sub>	6 <sup>7</sup> / <sub>16</sub>	13 <sup>5</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>2</sub>	32.9
6 x 4 x 4	6 <sup>1</sup> / <sub>2</sub>	6 <sup>7</sup> / <sub>16</sub>	13 <sup>5</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>4</sub>	40.1



**PART NO. SV 76**

**Sanitary Tee with Cleanout on Main**

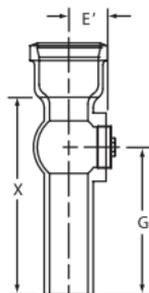
Size	IPS Tap	G	X	X'	Weight
4	3 <sup>1</sup> / <sub>2</sub>	8	12 <sup>1</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	14.6



## PART NO. SV 79

Washington Test Tee<sup>‡</sup>

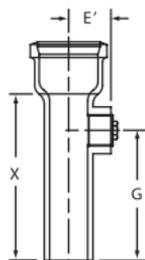
Size	IPS Tap	E'	G	X	Weight	Weight w/Plug
2	2	1 <sup>3</sup> / <sub>4</sub>	7	9	6.2	6.5
3	4	2 <sup>7</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	10 <sup>3</sup> / <sub>4</sub>	12.3	13.3
4	4	3 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	10 <sup>5</sup> / <sub>8</sub>	15.5	16.6
5	5	3 <sup>5</sup> / <sub>8</sub>	7	11	21.8	23.0
6	6	4	8 <sup>3</sup> / <sub>4</sub>	13	23.8	26.2
8	8	5	11	16 <sup>3</sup> / <sub>8</sub>	40.4	44.7
10	10	7 <sup>1</sup> / <sub>2</sub>	11	17 <sup>5</sup> / <sub>8</sub>	68.7	-



## PART NO. SV 80

## Cleanout Tee with Brass Plug

Size	IPS Tap	E'	G	X	Weight
2	1 <sup>1</sup> / <sub>2</sub>	2	6 <sup>1</sup> / <sub>4</sub>	8	5.7
3	2	2 <sup>1</sup> / <sub>2</sub>	7	9	8.8
4	3	3	8	11	14.3
5	4	3 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>2</sub>	12	19.7
6	4	4 <sup>1</sup> / <sub>4</sub>	9	13	24.4
12	8	8	13	18 <sup>1</sup> / <sub>2</sub>	94.5



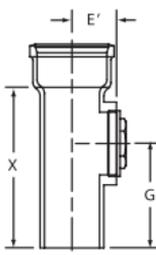
## PART NO. SV 81

## Miami Test Tee, Less Plug

## and PART NO. SV 81S

Miami Test Tee with Southern  
Raised-Head Brass Plug Installed

Size	IPS Tap	E'	G	X	SV 81 Weight	SV 81S Weight
2	2	2 <sup>1</sup> / <sub>32</sub>	6 <sup>1</sup> / <sub>2</sub>	9	7.0	7.3
3	3	2 <sup>1</sup> / <sub>2</sub>	6 <sup>5</sup> / <sub>8</sub>	9 <sup>5</sup> / <sub>8</sub>	9.0	9.6
4	4	3	7 <sup>1</sup> / <sub>4</sub>	11	15.3	16.2
6	6	4	9	13 <sup>1</sup> / <sub>4</sub>	23.4	26.1

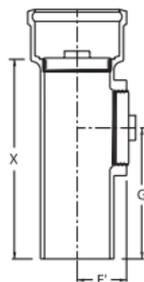


<sup>‡</sup> This fitting can be ordered without or with a Southern Raised Head Brass Plug installed (2" through 8" available with plug).

## PART NO. SV 82

## Test Tee with Internal Tap

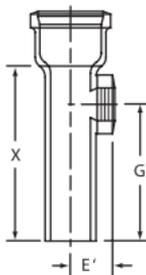
Size	E'	G	X	Weight
4	2 <sup>15</sup> / <sub>16</sub>	7 <sup>7</sup> / <sub>8</sub>	12	15.9



## PART NO. SV 83

## Straight Tapped Tee

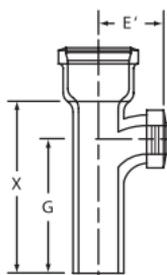
Size	E'	G	X	Weight
2 x 1 <sup>1</sup> / <sub>2</sub>	2	6 <sup>1</sup> / <sub>4</sub>	8	5.5
2 x 2	2	6 <sup>1</sup> / <sub>4</sub>	8	6.1
3 x 1 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	7	9	7.7
3 x 2	2 <sup>1</sup> / <sub>2</sub>	7	9	8.6
4 x 2	3	7	9	12.0
4 x 3	4	8	11	13.7
4 x 4	3	7 <sup>1</sup> / <sub>4</sub>	11	15.5
5 x 2	3 <sup>1</sup> / <sub>2</sub>	7	9	13.6
5 x 4	3 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>2</sub>	12	25.1
6 x 4	4 <sup>1</sup> / <sub>4</sub>	9	13	23.1



## PART NO. SV 84

## Sanitary Tapped Tee

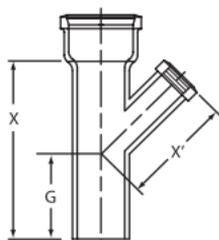
Size	E'	G	X	Weight
2 x 1 <sup>1</sup> / <sub>2</sub>	2 <sup>13</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>4</sub>	8	5.6
2 x 2	3 <sup>1</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>4</sub>	8	5.8
3 x 1 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>16</sub>	7	9	7.9
3 x 2	3 <sup>9</sup> / <sub>16</sub>	7	9	8.9
4 x 1 <sup>1</sup> / <sub>2</sub>	3 <sup>13</sup> / <sub>16</sub>	7	9	9.8
4 x 2	4 <sup>1</sup> / <sub>16</sub>	7	9	11.5
4 x 3	4 <sup>1</sup> / <sub>16</sub>	8	11	13.4



**PART NO. SV 85**

**Tapped Wye**

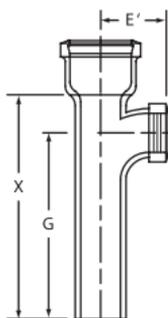
Size	G	X	X'	Weight
3 x 2	5	10 1/2	6 5/8	10.2
4 x 1 1/2	4 1/2	9	6 1/2	10.3
4 x 2	4 1/4	9	6	12.7



**PART NO. SV 89**

**Long Sanitary Tapped Tee**

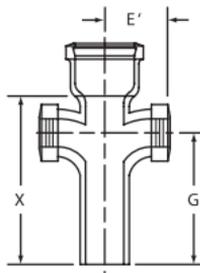
Size	E'	G	X	Weight
2 x 2 x 18	3 1/16	16	18	8.8



**PART NO. SV 91**

**Sanitary Tapped Cross**

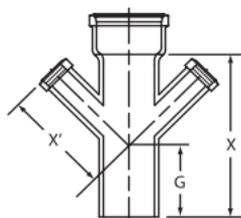
Size	E'	G	X	Weight
2 x 1 1/2	2 13/16	6 1/4	8	6.5
2 x 2	3 1/16	6 1/4	8	6.6
3 x 2	3 9/16	7	9	9.5
4 x 2	4 1/16	7	9	11.6



**PART NO. SV 92**

**Tapped Double Wye**

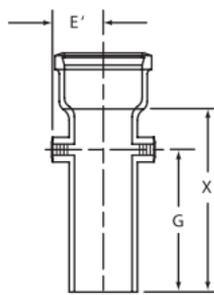
Size	G	X	X'	Weight
4 x 2	5 3/4	12	7 7/8	15.8



## PART NO. SV 93

## Tapped Cross

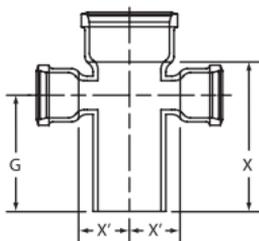
Size	E'	G	X	Weight
3 x 2	2½	7	9	9.9
4 x 2	3	7	9	13.0



## PART NO. SV 108

## Straight Cross

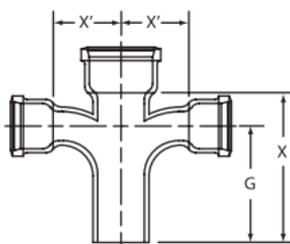
Size	G	X	X'	Weight
4 x 2	7	9	3	15.6
4	8	11	3	15.1



## PART NO. SV 109

## Sanitary Cross

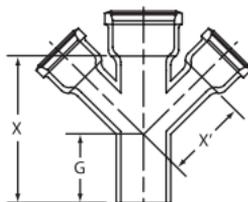
Size	G	X	X'	Weight
2	6¼	8	2¾	10.7
3 x 2	7	9	4	13.6
3	7½	10	4	17.1
4 x 2	7	9	4½	15.4
4 x 3	7½	10	4½	20.6
4	8	11	4½	22.5
5 x 4	8	11	5	23.2
6 x 4	8	11	5½	29.0
6	9	13	5½	32.8
8	11¾	17	6⅝	57.7



## PART NO. SV 110

## Double Wye

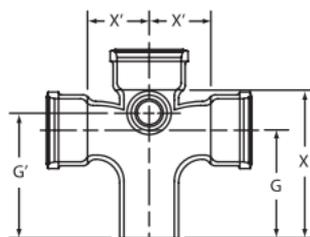
Size	G	X	X'	Weight
2	4	8	4	10.8
3 x 2	4 <sup>3</sup> / <sub>16</sub>	9	5	13.9
3	5	10 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	18.3
4 x 2	3 <sup>5</sup> / <sub>8</sub>	9	5 <sup>3</sup> / <sub>4</sub>	15.8
4 x 3	4 <sup>7</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>	21.3
4	5 <sup>1</sup> / <sub>4</sub>	12	6 <sup>3</sup> / <sub>4</sub>	27.2
5	5 <sup>1</sup> / <sub>2</sub>	13 <sup>1</sup> / <sub>2</sub>	8	28.8
6 x 3	3 <sup>3</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>2</sub>	7 <sup>3</sup> / <sub>4</sub>	27.0
6 x 4	4 <sup>3</sup> / <sub>16</sub>	12	8 <sup>1</sup> / <sub>4</sub>	32.0
6	5 <sup>3</sup> / <sub>4</sub>	15	9 <sup>1</sup> / <sub>4</sub>	46.7
8 x 4	4 <sup>3</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>2</sub>	47.0
8 x 6	6 <sup>5</sup> / <sub>16</sub>	16 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>2</sub>	60.0
8	7 <sup>1</sup> / <sub>16</sub>	19 <sup>1</sup> / <sub>2</sub>	11 <sup>13</sup> / <sub>16</sub>	92.4
10 x 6	5 <sup>1</sup> / <sub>8</sub>	16 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>8</sub>	73.7
10 x 8	6 <sup>1</sup> / <sub>2</sub>	19 <sup>1</sup> / <sub>2</sub>	13 <sup>7</sup> / <sub>16</sub>	99.0
10	8	22 <sup>1</sup> / <sub>2</sub>	14 <sup>1</sup> / <sub>2</sub>	159.6
12 x 6	5 <sup>1</sup> / <sub>16</sub>	18	13 <sup>7</sup> / <sub>16</sub>	103.2
12 x 8	7 <sup>1</sup> / <sub>16</sub>	21	14 <sup>3</sup> / <sub>4</sub>	125.1
12	10 <sup>1</sup> / <sub>8</sub>	27	16 <sup>7</sup> / <sub>8</sub>	216.1
15	(XH)	(XH)	(XH)	(XH)



## PART NO. SV 114

## Sanitary Cross with 2" Side Inlet

Size	G	G'	X	X'	Weight
4	8	9	11	4 <sup>1</sup> / <sub>2</sub>	27.4

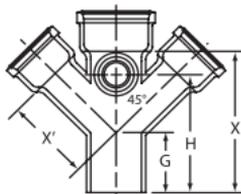


(XH) Please see Extra Heavy dimensions

**PART NO. SV 115**

**Double Wye with 2" Side Opening**

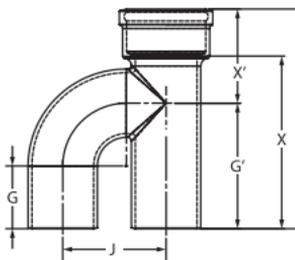
Size	G	H	X	X'	Weight
4 x 4	5 1/4	10	12	6 3/4	31.7



**PART NO. SV 134**

**Vent Branch**

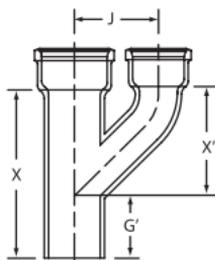
Size	X	X'	J	G	G'	Weight
4	11	6	6 1/2	4	8	19.6



**PART NO. SV 135**

**"H" Branch**

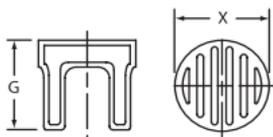
Size	X	X'	J	G	Weight
4 x 3	12 3/16	7 9/16	6	4 1/2	18.1
4	13 15/16	8 11/16	6 1/2	5 1/4	20.8



**PART NO. SV 137**

**Bar Grate with Legs**

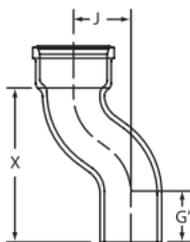
Size	G	X	Weight
4	3	4 3/4	1.3



**PART NO. SV 141**

**45° Offset**

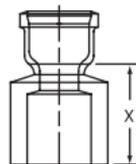
Size/Offset	X	G'	J	Weight
4 x 4	11	4	4	12.1
4 x 6	13	4	6	13.8
4 x 8	15	4	8	16.1



## PART NO. SV 143

## Reducer

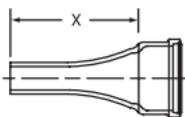
Size	X	Weight
3 x 2	4 <sup>3</sup> / <sub>4</sub>	4.6
4 x 2	5	6.0
4 x 3	5	6.9
5 x 2	5	6.6
5 x 3	5	7.6
5 x 4	5	8.9
6 x 2	5	8.2
6 x 3	5	9.9
6 x 4	5	10.3
6 x 5	5	10.8
8 x 3	6	14.1
8 x 4	6	16.1
8 x 5	6	16.3
8 x 6	6	16.3
10 x 4	6	19.9
10 x 5	6	23.9
10 x 6	6	22.5
10 x 8	6	26.8
12 x 4	6 <sup>1</sup> / <sub>2</sub>	32.6
12 x 6	6 <sup>1</sup> / <sub>2</sub>	36.0
12 x 8	6 <sup>1</sup> / <sub>2</sub>	37.8
12 x 10	6 <sup>1</sup> / <sub>2</sub>	38.9
15 x 6	6 <sup>1</sup> / <sub>2</sub>	53.1
15 x 8	6 <sup>1</sup> / <sub>2</sub>	48.6
15 x 10	6 <sup>1</sup> / <sub>2</sub>	56.9
15 x 12	6 <sup>1</sup> / <sub>2</sub>	68.7



## PART NO. SV 144

## Reducer Increaser

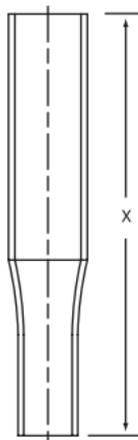
Size	X	Weight
2 x 4	9	9.3
3 x 4	9	8.8
4 x 5	9	11.9
4 x 6	9	14.9
4 x 8	12	25.9
5 x 6	9	13.4
6 x 8	12	24.0
8 x 10	12	40.3



**PART NO. SV 147**

**Long Plain Increaser**

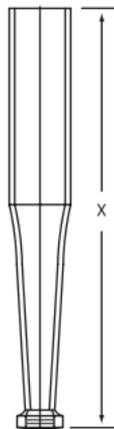
Size	X	Weight
3 x 4 x 24	24	13.6
4 x 5 x 30	30	27.4



**PART NO. SV 148**

**Long Tapped Increaser**

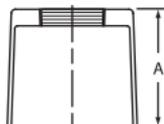
Size	X	Weight
2 x 4 x 30	30	23.0



**PART NO. SV 151**

**Tapped Spigot**

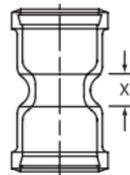
Size	A	Weight
4 x 2	4 1/4	4.5



**PART NO. SV 153**

**Double Hub Fitting**

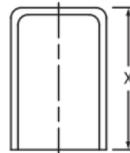
Size	X	Weight
2	1¼	4.7
3	1¼	6.8
4	1½	8.9
6	1½	13.3
8	1½	24.3
10	1½	35.9
12	1½	46.3
15	(XH)	(XH)



**PART NO. SV 155**

**Pipe Plug**

Size	X	Weight
2	3½	1.4
3	3¾	2.5
4	4	4.0
5	4	6.0
6	4	7.4
8	4½	12.3
10	4½	17.7
12	5¼	25.9
15	(XH)	(XH)



**PART NO. SV 159**

**Vent Cap with Set Screw**

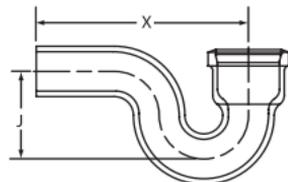
Size	Weight
4	2.6



**PART NO. SV 169**

**"P" Trap**

Size	J	X	Weight
2	4	9½	7.0
3	5½	12	13.0
4	6½	14	22.8
5	7½	15½	31.0
6	8½	17	41.8
8	10½	22¼	88.6

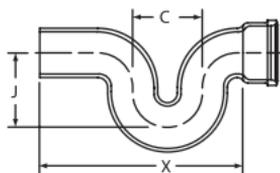


(XH) Please see Extra Heavy dimensions

**PART NO. SV 170**

**Running Trap**

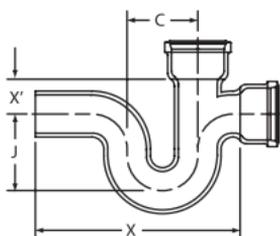
Size	X	C	J	Weight
4	17½	6	6½	19.8
6	21½	8	8½	45.1



**PART NO. SV 174**

**Running Trap with Single Hub Vent**

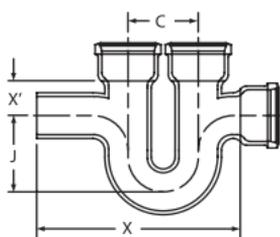
Size	Vent Size	C	J	X	X'	Weight
3	3	5	5½	15	2½	17.7
4	4	6	6½	17½	3	29.6
5	4	7	7½	19½	3½	40.9
6	4	8	8½	21½	4	47.8
8	4	10	11	27 <sup>5</sup> / <sub>8</sub>	5¼	104.3
8	6	10	11	27 <sup>5</sup> / <sub>8</sub>	5¼	99.7



**PART NO. SV 175**

**Running Trap  
with Double Hub Vent**

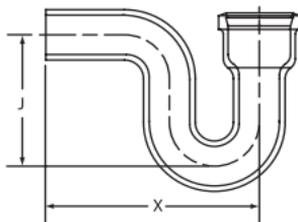
Size	Vent Size	C	J	X	X'	Weight
3	3	5	5½	15	2½	20.6
4	4	6	6½	17½	3	36.3
5	4	7	7½	19½	3½	43.7
6	4	8	8½	21½	4	55.2
6	6	8	8½	21½	4	63.6
8	4	10	11	27 <sup>5</sup> / <sub>8</sub>	5¼	104.3
8	6	10	11	27 <sup>5</sup> / <sub>8</sub>	5¼	107.4
10	8	12	13	31 <sup>5</sup> / <sub>8</sub>	6¼	187.0
12	10	15	15	38 <sup>3</sup> / <sub>4</sub>	7¼	287.6
15	12	18½	18½	45	9	460.0



**PART NO. SV 180**

**Deep Seal "P" Trap**

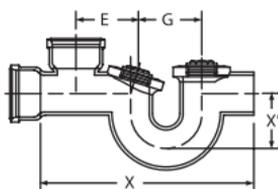
Size	X	J	Weight
2	9½	6	8.1
3	12	7	14.0
4	14	8	28.0
6	17	9½	42.0



**PART NO. SV 184<sup>(T)</sup>**

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

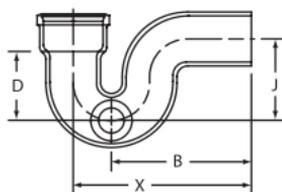
Vent Size	Size	E	G	X	X'	Weight
4	3	5¼	6¼	20½	5½	33.9
4	4	5⅜	6¼	20½	5½	34.0



**PART NO. SV 188<sup>(T)</sup>**

**"P" Trap with Cleanout Right Side**

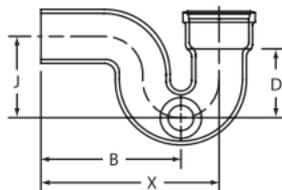
Size	X	J	B	D	Weight
4	14	6½	11	5½	20.5



**PART NO. SV 188A<sup>(T)</sup>**

**"P" Trap with Cleanout Left Side**

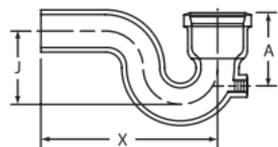
Size	X	J	B	D	Weight
4	14	6½	11	5½	20.1



**PART NO. SV 198**

**"P" Trap with ½" Heel Tap**

Size	X	J	A	Weight
2	9½	4	4	7.0
3	12	5½	4⅜	13.0
4	14	6½	4⅝	22.2

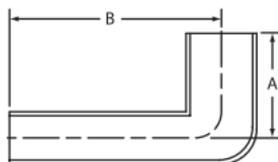


<sup>(T)</sup> Note: 3½" IPS tap

## PART NO. SV 200

## Closet Bend, Plain - Less Collar

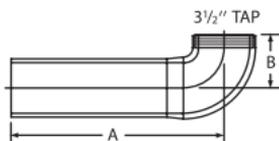
Size	A	B	Weight
3 x 4	6	12	10.5
3 x 4	6	15	12.0
3 x 4	6	16	11.7
3 x 4	6	18	13.0
3 x 4	8	18	14.0
3 x 4	10	12	13.0
3 x 4	10	15	13.0
3 x 4	10	16	16.3
3 x 4	10	18	16.0
3 x 4	12	12	15.4
3 x 4	16	16	20.5
3 x 4	18	18	22.2
3	16	16	16.7
4	4	12	11.2
4	4	16	13.9
4	4	18	17.3
4	6	12	12.1
4	6	15	15.0
4	6	16	16.9
4	6	18	14.3
4	8	16	18.4
4	8	18	19.8
4	10	12	14.4
4	10	15	18.0
4	10	16	19.6
4	10	18	19.0
4	12	12	13.8
4	12	14	14.0
4	12	16	20.5
4	12	18	19.0
4	14	16	22.6
4	14	18	24.1
4	16	16	22.9
4	16	18	24.6
4	18	18	26.9



**PART NO. SV 206**

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

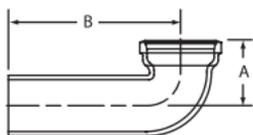
Size	A	B	Weight
3 1/2 x 4 x 4 x 18	18	4	17.3



**PART NO. SV 208**

**Hub-End Closet Bend, Low Hub**

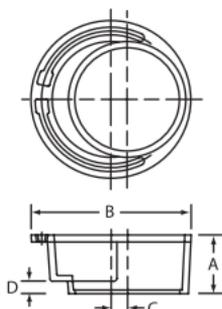
Size	A	B	Weight
4	4 5/8	12	14.3
4	4 5/8	14	15.4
4	4 5/8	16	17.5
4	4 5/8	18	18.9



**PART NO. SPL 217**

**Offset Closet Flange (To Offset 1")**

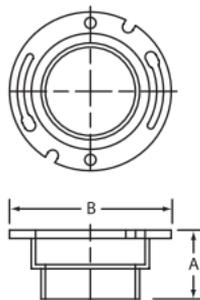
Size	A	B	C	D	Weight
4 x 2	2	6	1	5/8	3.0
4 x 2 1/2	2 1/2	7 3/16	1	5/8	4.4
4 x 4 <sup>◇</sup>	4	6 1/4	2	2	5.0



**PART NO. SPL 219**

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

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

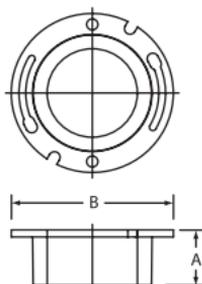


◇ 2" Offset

**PART NO. SPL 220\***

**Clotset Flange, Notched and Slotted**

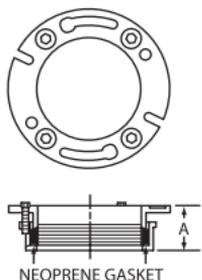
Size	A	B	Weight
4 x 1	1	7 <sup>3</sup> / <sub>16</sub>	2.3
4 x 1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	7 <sup>3</sup> / <sub>16</sub>	2.6
4 x 2	2	7 <sup>3</sup> / <sub>16</sub>	2.9
4 x 2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	7 <sup>3</sup> / <sub>16</sub>	3.4
4 x 3	3	7 <sup>3</sup> / <sub>16</sub>	3.9
4 x 4	4	7 <sup>3</sup> / <sub>16</sub>	4.6
4 x 5	5	7 <sup>3</sup> / <sub>16</sub>	4.4
4 x 6	6	7 <sup>3</sup> / <sub>16</sub>	5.3



**PART NO. SPL 225**

**Instant Set Clotset Flange**

Size	A	Weight
3 x 2 <sup>†</sup>	2	3.5
4 x 2 <sup>‡</sup>	2	3.6
4 x 3 <sup>§</sup>	2	3.0
4 x 4 <sup>‡</sup>	4	4.0



\* Caulk type to go over pipe.

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

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

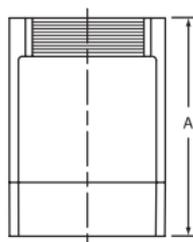
§ Three-bolt reducing pattern, with test cap.

**PART NO. SV 228**

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

**and PART NO. SV 228S**

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

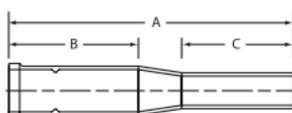


Size	Tap Size	A	SV 228 Weight	SV 228S Weight
2	1½	3½	1.1	1.3
3	2½	3¾	1.9	2.3
4	3	4¼	3.5	4.1
5	4	4¼	4.4	5.4
6	5	4¼	6.0	6.4
8	6	4½	11.6	13.8
10	6	4½	16.0	18.2
12	6	5¼	29.0	27.1
15	(XH)	(XH)	(XH)	(XH)
4 x 3½	3½	4½	3.6	-
4 x 8	3½	8	8.1	-
4 x 12	3½	12	-	9.8

**PART NO. SV 253**

**Sission Insertable Joint**

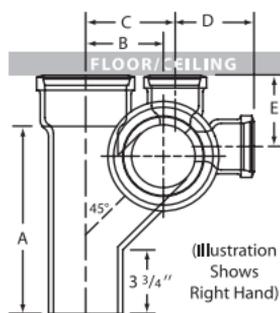
Size	A	B	C	Weight
2	14	6	6	7.0
3	16	8	6¾	11.5
4	14½	7	6	12.4
5	15⅞	9	5⅞	15.2
6	16⅜	8½	6	20.9
8	18	10	6¾	36.7

**PART NO. SV 458**

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

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

Size	A	B	C	D	E	Weight
4x4x2x2x4 RH	11	4½	5⅜	4⅞	4⅜	36.4
4x4x2x2x4 LH	11	4½	5⅜	4⅞	4⅜	34.9



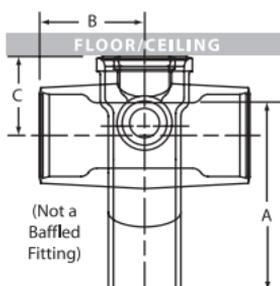
(XH) Please see Extra Heavy dimensions.

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

**PART NO. SV 459D**

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

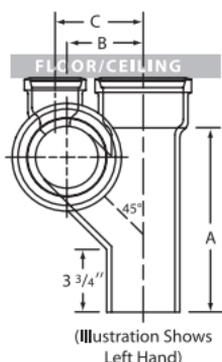
Size	A	B	C	Weight
4x4x2x2x4	11	6 <sup>1</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	47.0



**PART NO. SV 460**

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

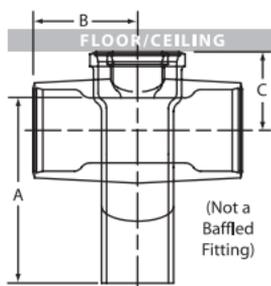
Size	A	B	C	Weight
4x4x2x4 RH	11	4 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>16</sub>	35.0
4x4x2x4 LH	11	4 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>16</sub>	35.0



**PART NO. SV 463D**

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

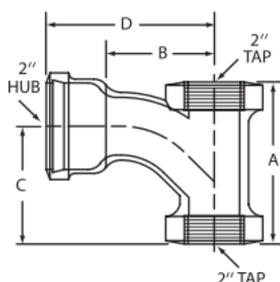
Size	A	B	C	Weight
4 x 4 x 2	11	6 <sup>1</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	43.8



**PART NO. SV 566**

**Tapped Long Sweep Tee**

Size	A	B	C	D	Weight
2 x 2	5 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>8</sub>	4	5 <sup>5</sup> / <sub>8</sub>	6.2

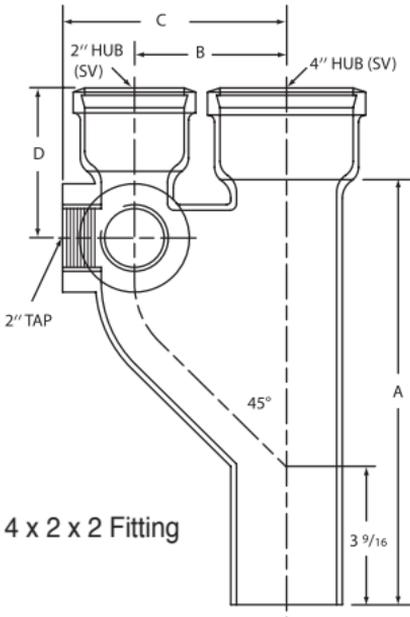
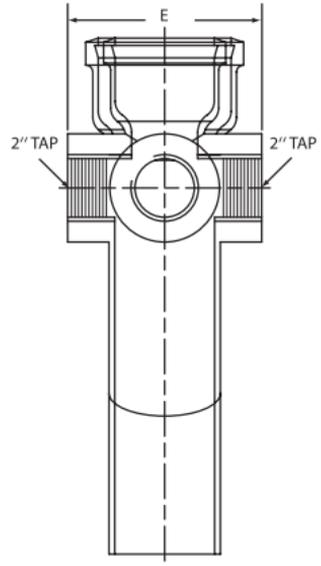
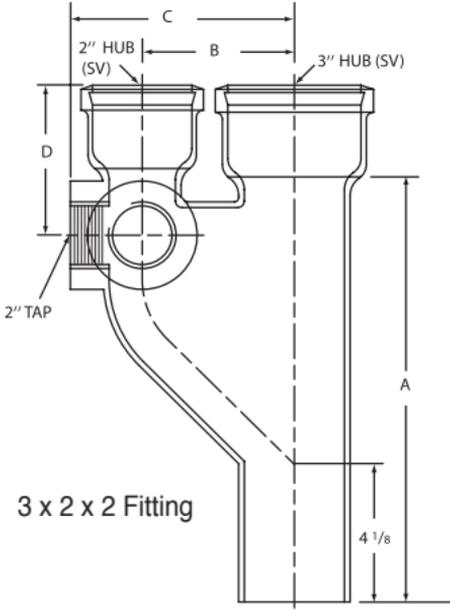


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**PART NO. SV 581**

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

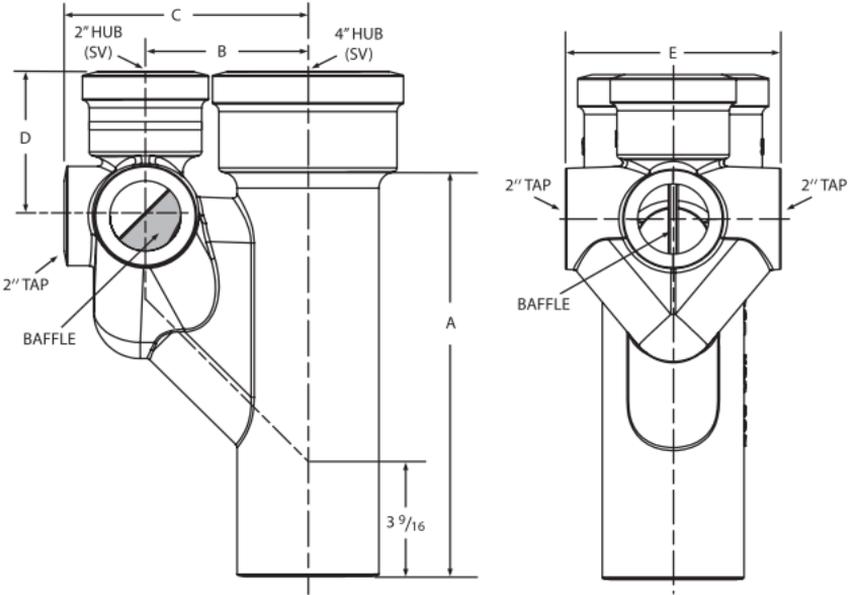
Size	A	B	C	D	E	Weight
3 x 2 x 2	12 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	6 <sup>5</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>4</sub>	17.6
4 x 2 x 2	12 <sup>1</sup> / <sub>2</sub>	5	7 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	6 <sup>5</sup> / <sub>8</sub>	23.8



**PART NO. SV 581 B**

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

Size	A	B	C	D	E	Weight
4 x 2 x 2	12½	5	7½	4½	6 <sup>5</sup> / <sub>8</sub>	24.3

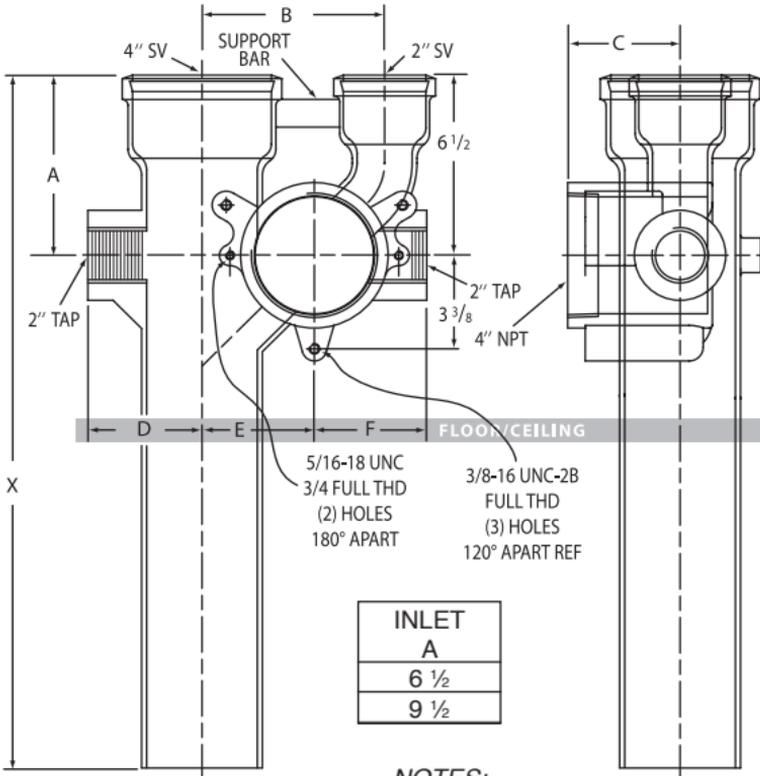


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**PART NO. SV 973R**

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

Size	Inlet	A	B	C	D	E	F	X	Weight
4	6 1/2	See Chart	6 1/2	4	4 1/16	4	4	25	36.0
4	9 1/2	See Chart	6 1/2	4	4 1/16	4	4	25	34.7



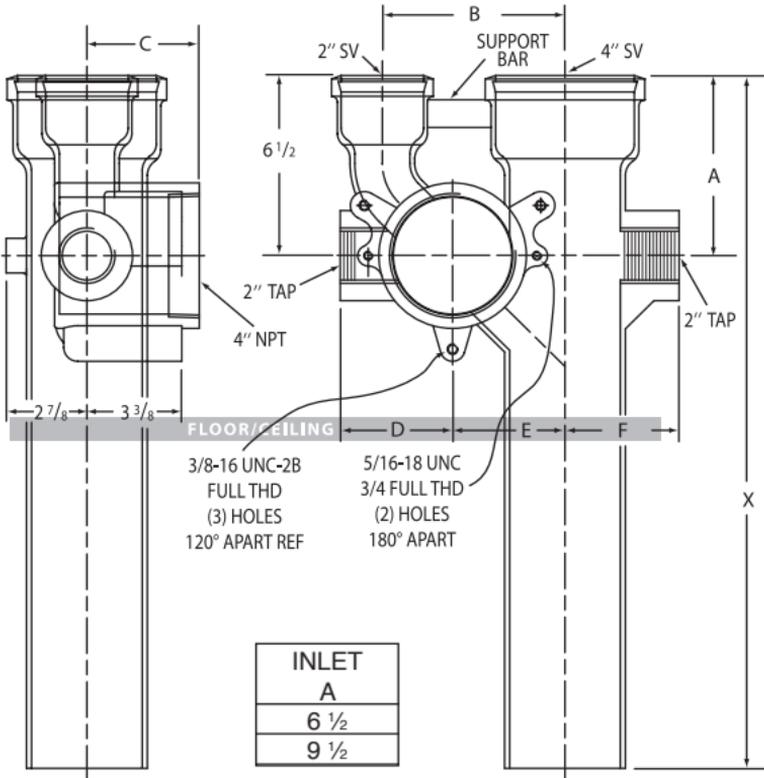
INLET A
6 1/2
9 1/2

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

**PART NO. SV 973L**

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

Size	Inlet	A	B	C	D	E	F	X	Weight
4	6 1/2	See Chart	6 1/2	4	4	4	4	25	35.0
4	9 1/2	See Chart	6 1/2	4	4	4	4	25	38.4

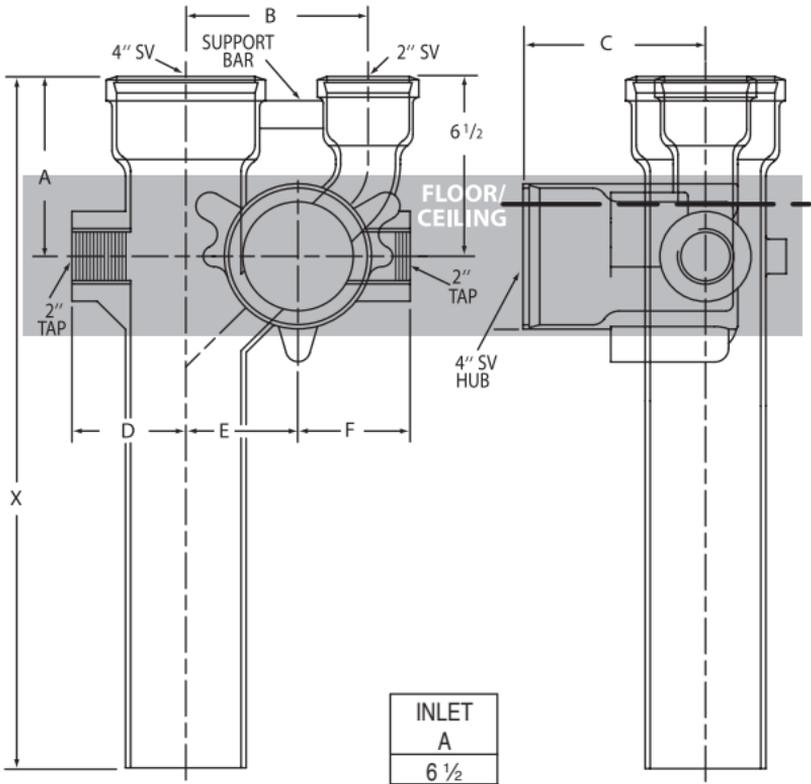


- NOTES:**
1. Single Vertical L.H. Offset Back Outlet Starter Fitting
  2. 4" Stack with 2" Vent & Inlets
  3. Face Plate Package Not Included

**PART NO. SV 974R**

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

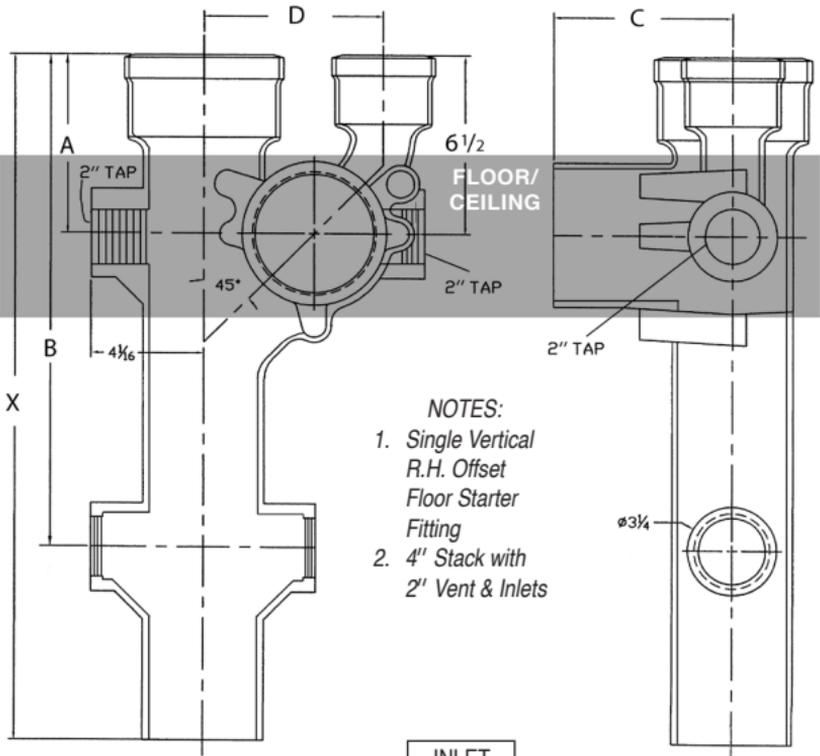
Size	A	B	C	D	E	F	X	Weight
4 with A Inlet	6 1/2	6 1/2	6 1/2	4 1/16	4	4	25	39.5



**PART NO. SV 974R**

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

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



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

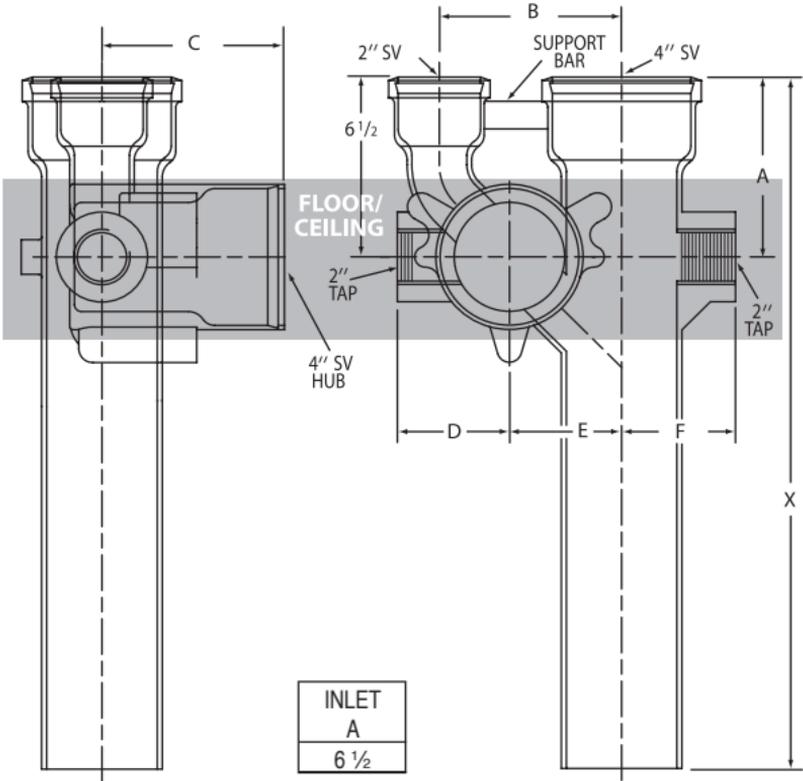
INLET	
A	B
6½	18

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**PART NO. SV 974L**

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

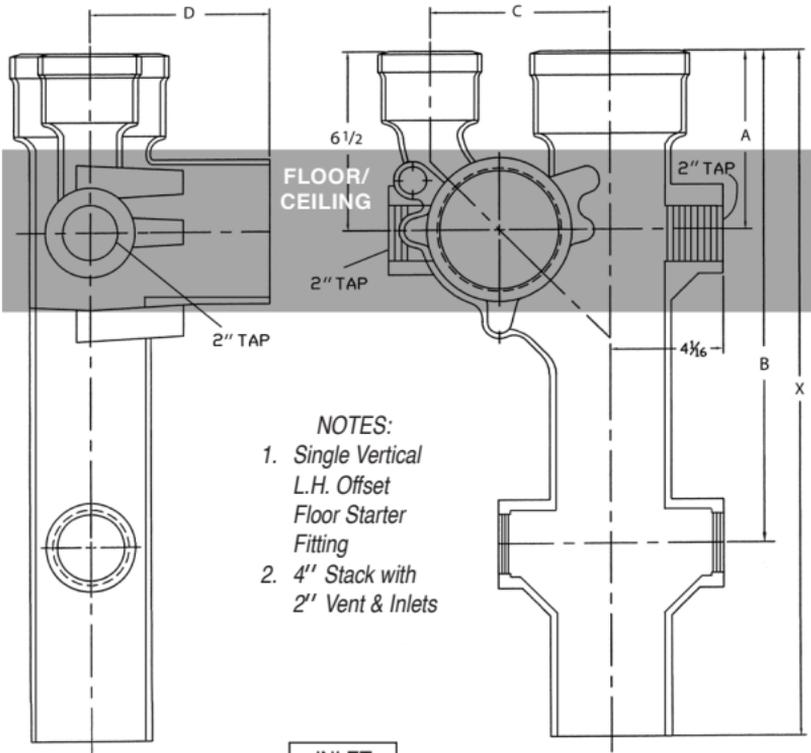
Size	A	B	C	D	E	F	X	Weight
4 with A Inlet	6 1/2	6 1/2	6 1/2	4	4	4 1/16	25	39.1



**PART NO. SV 974L**

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

Size	A	B	C	D	X	Weight
4 with A & B Inlets	6 1/2	18	6 1/2	6 1/2	25	43.0



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

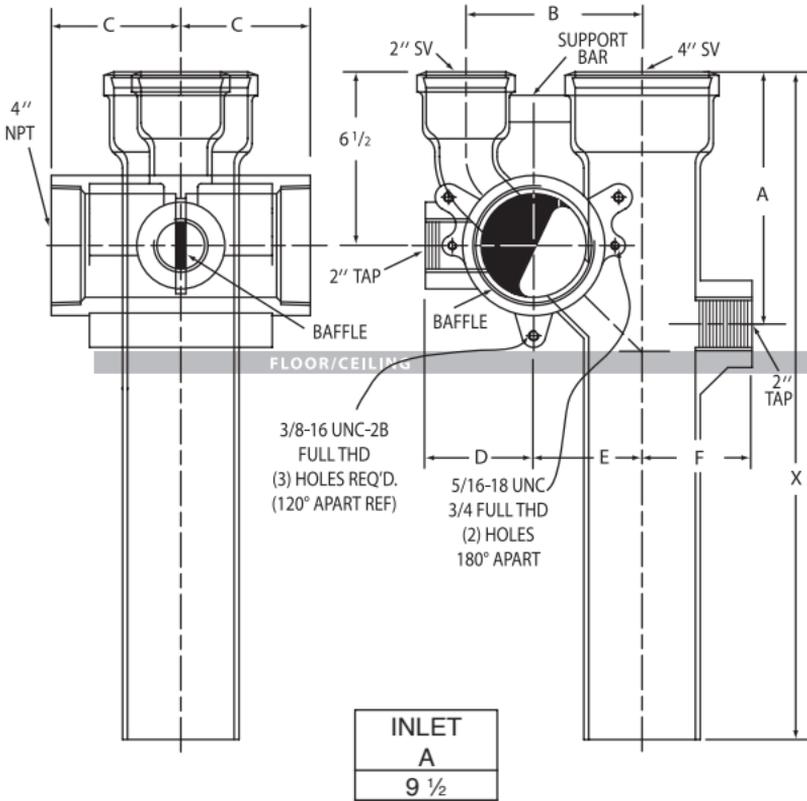
INLET	
A	B
6 1/2	18

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**PART NO. SV 975**

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

Size	A	B	C	D	E	F	X	Weight
4 with A Inlet	9 1/2	6 1/2	4	4	4	4 1/16	25	40.9



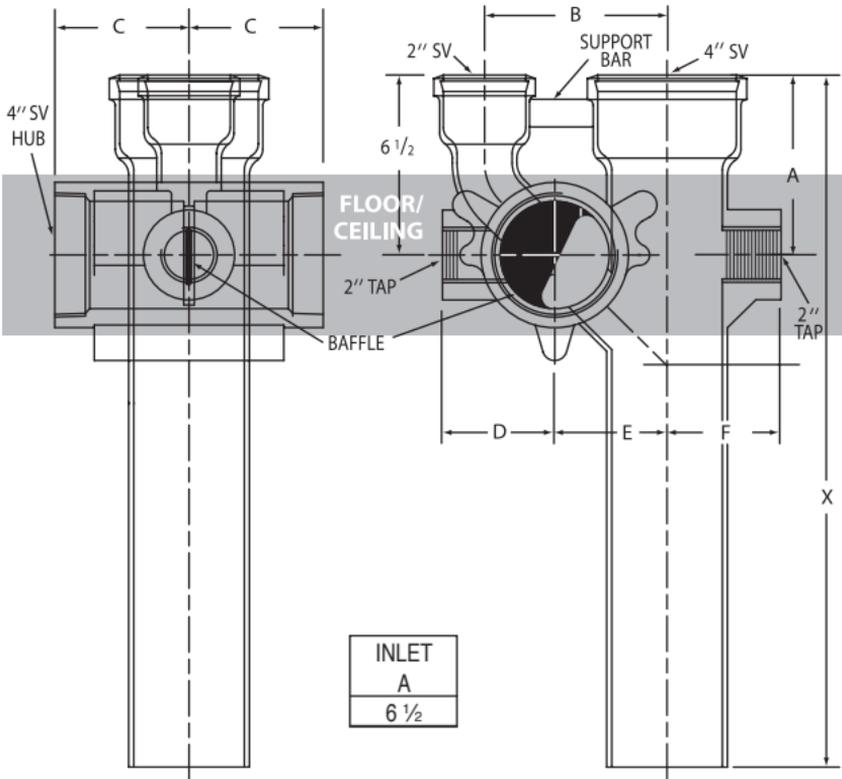
**NOTES:**

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

**PART NO. SV 976**

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

Size	A	B	C	D	E	F	X	Weight
4 with A Inlet	6 1/2	6 1/2	6 1/2	4	4	4 1/16	25	49.3



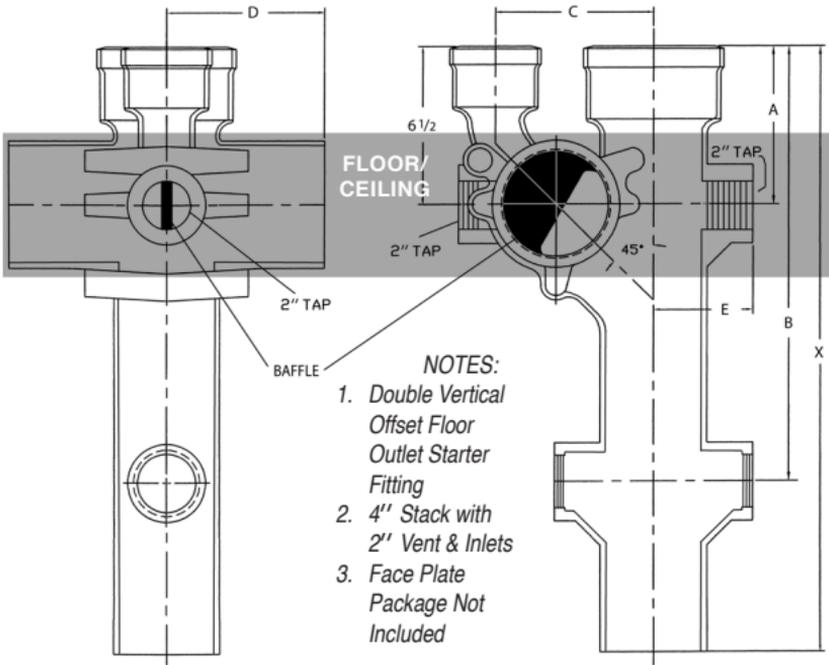
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**PART NO. SV 976**

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

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

Size	A	B	C	D	E	X	Weight
4 with A & B Inlets	6½	18	6½	6½	4¼	25	56.8

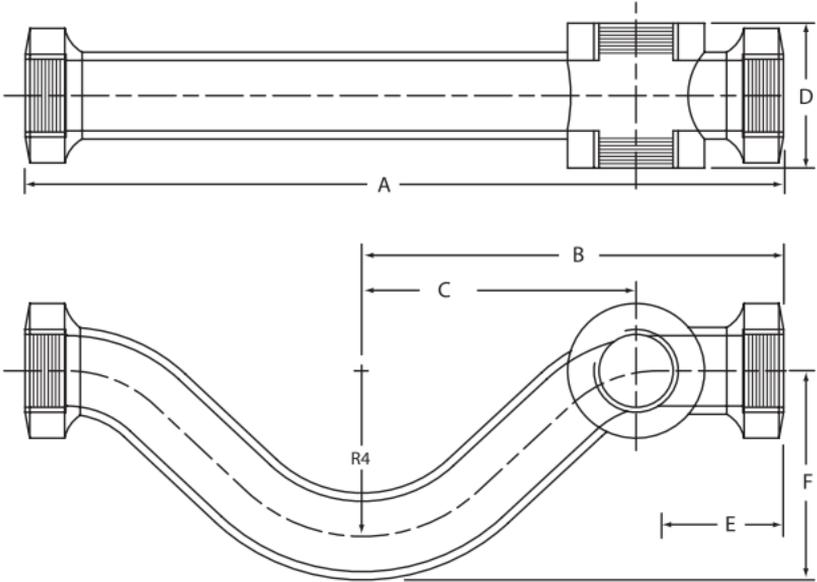


INLET	
A	B
6½	18

**PART NO. SV 982**

**Tapped By-Pass Vent Fitting**

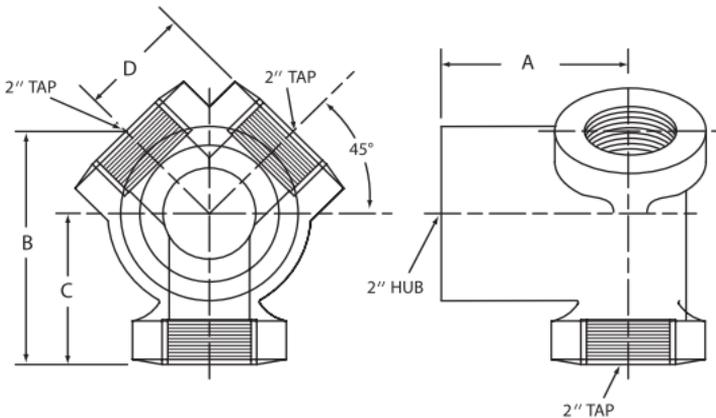
Size	A	B	C	D	E	F	Weight
2 x 2	18	10	6½	3½	3	5¼	11.3



**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

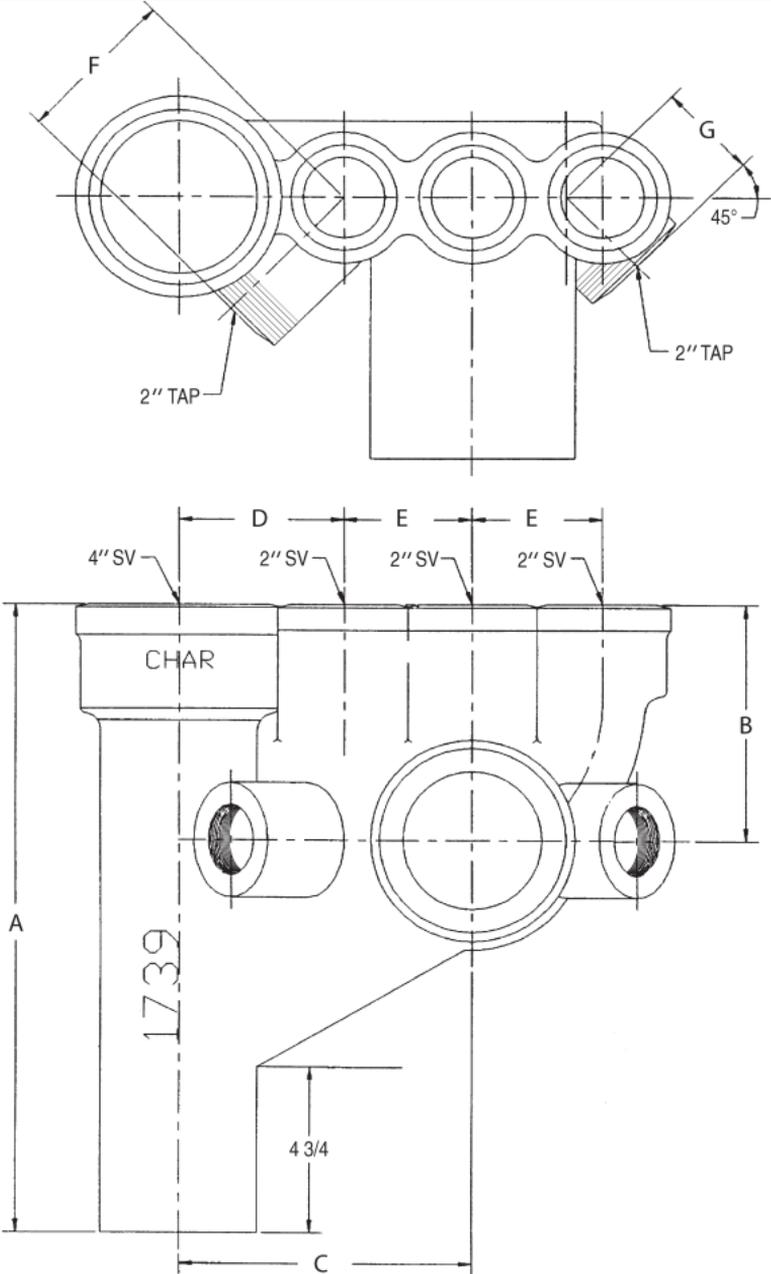


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**PART NO. SV 1739R**

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

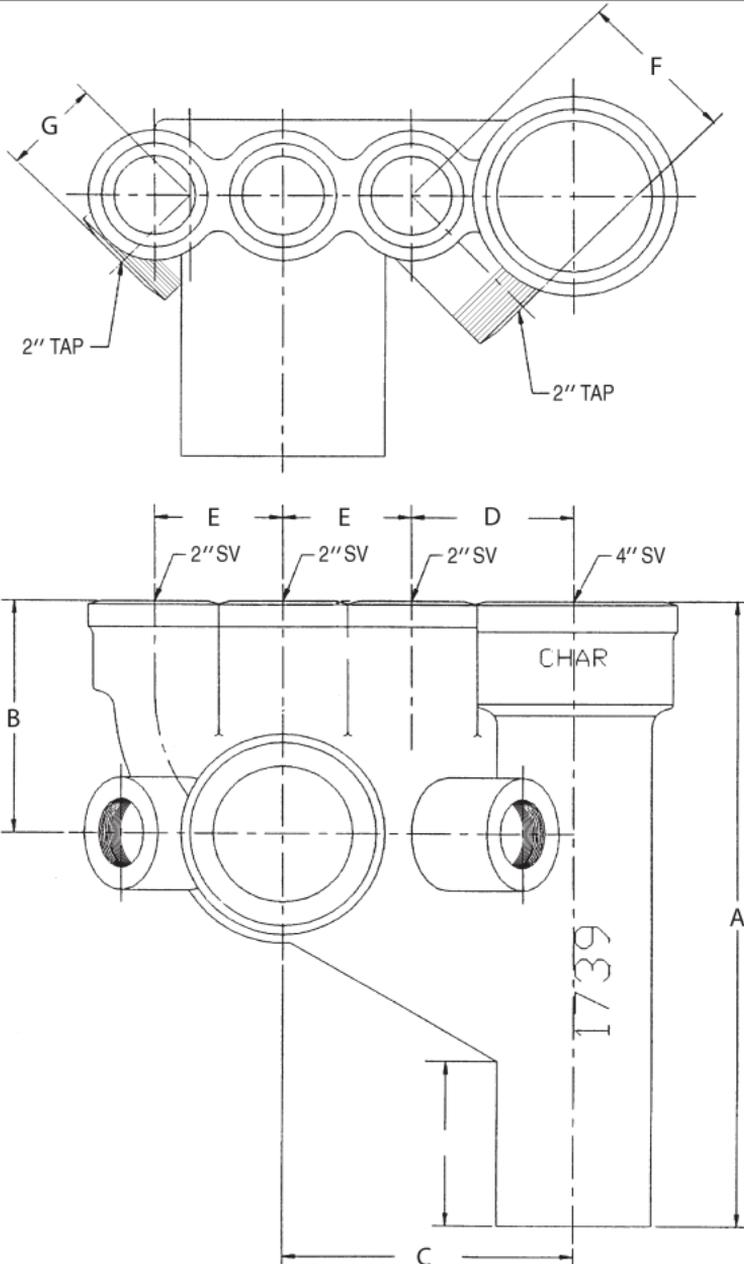
Size	A	B	C	D	E	F	G	Weight
4x2x4x2	18	6 <sup>3</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	4 <sup>5</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>4</sub>	59.8



**PART NO. SV 1739L**

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

Size	A	B	C	D	E	F	G	Weight
4x2x4x2	18	6 <sup>3</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	4 <sup>5</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>4</sub>	66.1

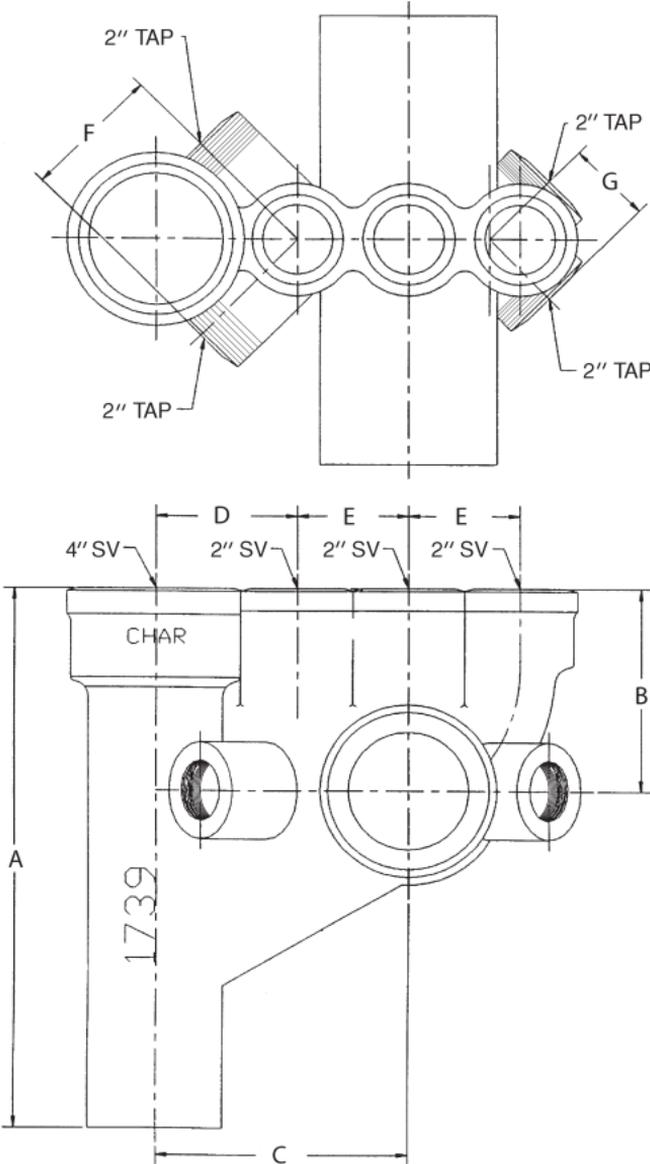


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**PART NO. SV 1739 D**

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

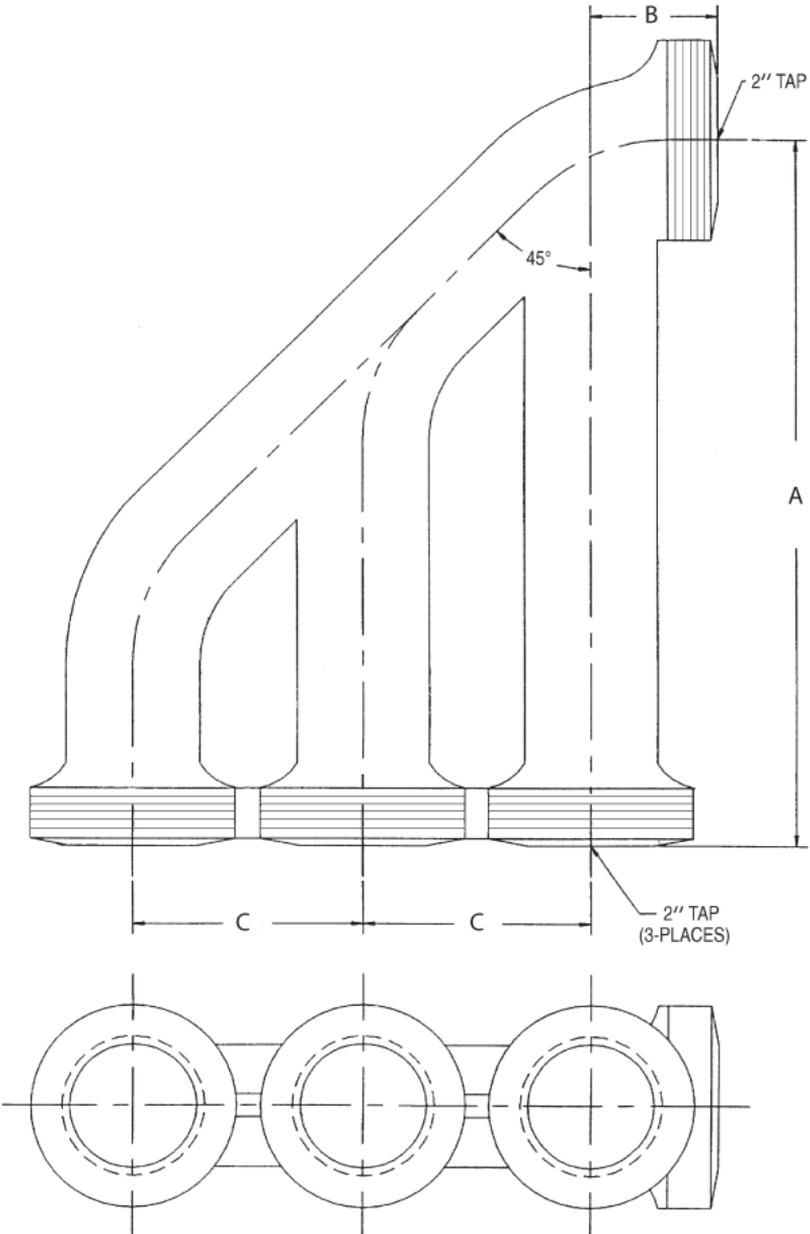
Size	A	B	C	D	E	F	G	Weight
4x2x4x2	18	6 <sup>3</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	4 <sup>5</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>4</sub>	58.2



**PART NO. SV 1801**

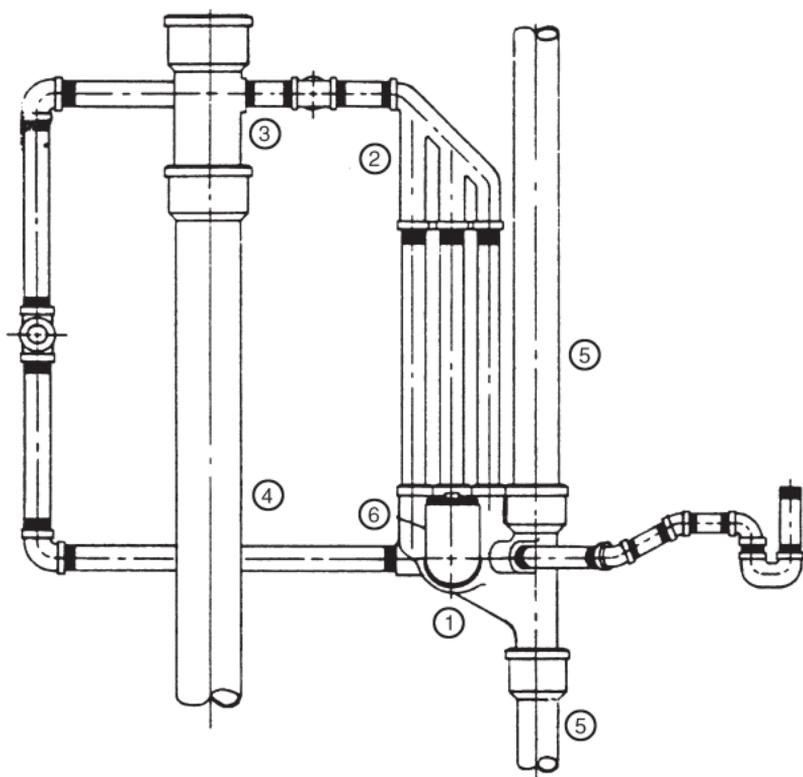
**Tapped Harp Fitting**

Size	A	B	C	Weight
2 x 2 x 2	117/16	2	35/8	15.7



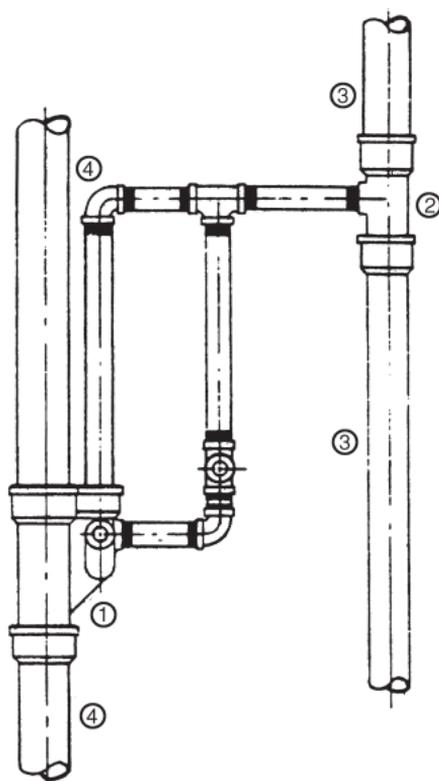
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**MULTI-STORY INSTALLATION**



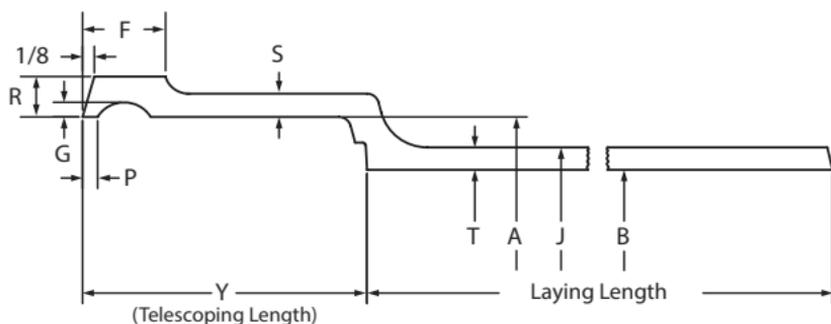
- ① SV 1739 Left Hand Vented Closet Tee with 2" 45° Taps
- ② SV 1801 2x2x2 Tapped Harp Fitting
- ③ SV 83 5x2 Straight Tapped Tee
- ④ 5x10 SV Single Hub Pipe
- ⑤ 4x10 SV Single Hub Pipe
- ⑥ SV 206 4x4x18 Tapped Closet Bend with Southern Code Brass Plug

## MULTI-STORY INSTALLATION



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

# Extra Heavy



## PIPE - EXTRA-HEAVY\*

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

## CHARLOTTE® SPEED-PAK FIVE FOOT PIPE BUNDLES

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

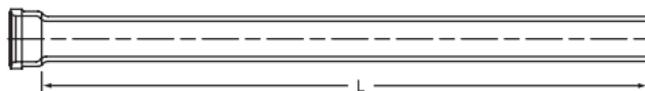
\* For additional dimensional information please see the Cast Iron Technical and Installation Manual.

**CHARLOTTE® SPEED-PAK**  
**TEN FOOT PIPE BUNDLES**

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

**EXTRA HEAVY**

**PART NO. XH 1**

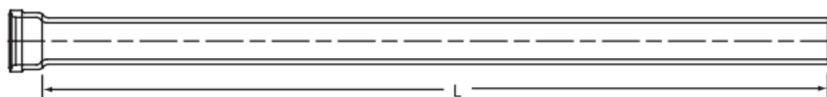


**Pipe, 5' Lengths, Single Hub**

Size	L	Weight
2" x 5'	5'	25.0
3" x 5'	5'	46.8
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'	206.6
12" x 5'	5'	245.2
15" x 5'	5'	350.0

Weights are approximate and are for shipping purposes only.

## 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'	110.2
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



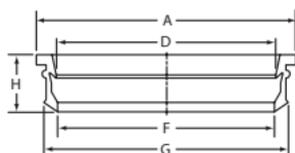
## Pipe, 30" Lengths, Double Hub

Size	L	Weight
2" x 30"	25"	16.7
3" x 30"	24 <sup>1</sup> / <sub>2</sub> "	25.3
4" x 30"	24"	33.5

## PART NO. XH 900

## Extra Heavy Charlotte Seal Gasket

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

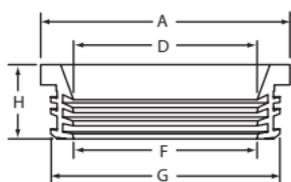


EXTRA HEAVY

## PART NO. XH 950

## Extra Heavy Quick-Tite Gasket

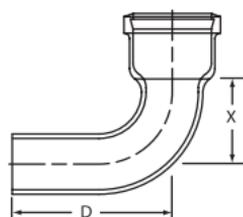
Size	A	D	F	G	H	Weight
4	6 <sup>1</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>4</sub>	4 <sup>13</sup> / <sub>32</sub>	5 <sup>11</sup> / <sub>16</sub>	1 <sup>13</sup> / <sub>16</sub>	0.6
15	17 <sup>3</sup> / <sub>4</sub>	15 <sup>13</sup> / <sub>32</sub>	15	16 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>4</sub>	5.0



## PART NO. XH 5

Quarter Bend  
(90° Ell)

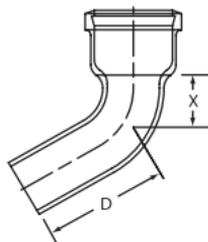
Size	D	X	Weight
2	6	3 <sup>1</sup> / <sub>4</sub>	6.2
3	7	4	11.1
4	8	4 <sup>1</sup> / <sub>2</sub>	15.0
5	8 <sup>1</sup> / <sub>2</sub>	5	19.7
6	9	5 <sup>1</sup> / <sub>2</sub>	25.0
8	11 <sup>1</sup> / <sub>2</sub>	6 <sup>5</sup> / <sub>8</sub>	46.3
10	12 <sup>1</sup> / <sub>2</sub>	7 <sup>5</sup> / <sub>8</sub>	77.2
12	15	8 <sup>3</sup> / <sub>4</sub>	114.9
15	16 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>4</sub>	173.9



## PART NO. XH 7

**Sixth Bend  
 (60° Ell)**

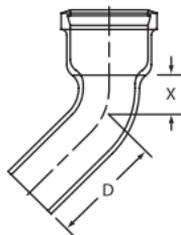
Size	D	X	Weight
2	4 <sup>3</sup> / <sub>4</sub>	2	5.9
3	5 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	9.1
4	6 <sup>5</sup> / <sub>16</sub>	2 <sup>13</sup> / <sub>16</sub>	12.7
6	6 <sup>7</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	21.0



## PART NO. XH 8

**Eighth Bend  
 (45° Ell)**

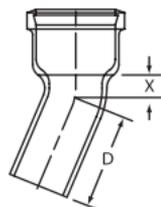
Size	D	X	Weight
2	4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	4.7
3	4 <sup>15</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	8.7
4	5 <sup>11</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	12.0
5	5 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	16.6
6	6 <sup>1</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>16</sub>	18.2
8	8	3 <sup>1</sup> / <sub>8</sub>	38.4
10	8 <sup>3</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	61.6
12	10 <sup>5</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>16</sub>	85.5
15	10 <sup>15</sup> / <sub>16</sub>	4 <sup>11</sup> / <sub>16</sub>	122.0



**PART NO. XH 9**

**Sixteenth Bend  
(22 1/2° Ell)**

Size	D	X	Weight
2	3 <sup>5</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>	4.1
3	4 <sup>3</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>16</sub>	7.7
4	4 <sup>13</sup> / <sub>16</sub>	1 <sup>5</sup> / <sub>16</sub>	9.8
5	4 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	13.1
6	5	1 <sup>1</sup> / <sub>2</sub>	15.3
8	6 <sup>11</sup> / <sub>16</sub>	1 <sup>13</sup> / <sub>16</sub>	33.4
10	6 <sup>7</sup> / <sub>8</sub>	2	50.7
12	8 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	68.4
15	8 <sup>7</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	108.6

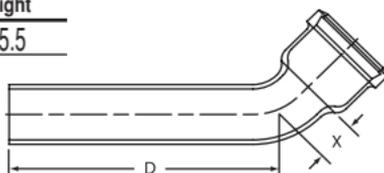


**EXTRA  
HEAVY**

**PART NO. XH 26**

**Long Eighth Bend**

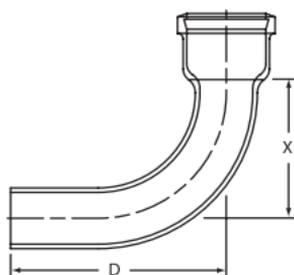
Size	D	X	Weight
4 x 18	18	2 <sup>3</sup> / <sub>16</sub>	25.5



## PART NO. XH 29

## Short Sweep Bend

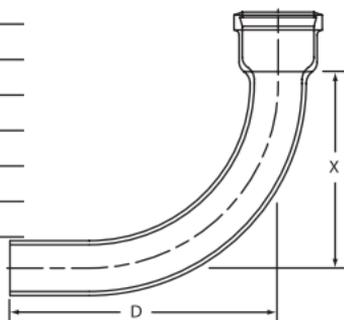
Size	D	X	Weight
2	8	5 $\frac{1}{4}$	7.2
3	9	6	12.7
4	10	6 $\frac{1}{2}$	17.6
5	10 $\frac{1}{2}$	7	25.0
6	11	7 $\frac{1}{2}$	29.2
8	13 $\frac{1}{2}$	8 $\frac{5}{8}$	57.0
10	14 $\frac{1}{2}$	9 $\frac{5}{8}$	90.0
12	17	10 $\frac{3}{4}$	122.6



## PART NO. XH 30

## Long Sweep Bend

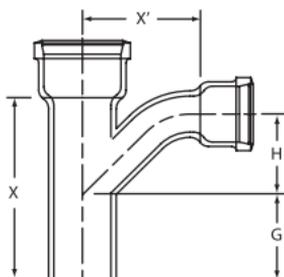
Size	D	X	Weight
2	11	8 $\frac{1}{4}$	8.9
3	12	9	17.7
4	13	9 $\frac{1}{2}$	23.4
5	13 $\frac{1}{2}$	10	30.0
6	14	10 $\frac{1}{2}$	38.6
8	16 $\frac{1}{2}$	11 $\frac{5}{8}$	66.4
10	17 $\frac{1}{2}$	12 $\frac{5}{8}$	104.2
12	20	13 $\frac{3}{4}$	136.0
15	21 $\frac{1}{2}$	15 $\frac{1}{4}$	213.3



## PART NO. XH 33

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

Size	G	H	X	X'	Weight
2 x 2	4	3 <sup>3</sup> / <sub>8</sub>	8	4 <sup>7</sup> / <sub>8</sub>	9.9
3 x 2	4 <sup>3</sup> / <sub>16</sub>	4	9	5 <sup>3</sup> / <sub>4</sub>	14.6
3 x 3	5	5 <sup>1</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>2</sub>	7	18.6
4 x 2	3 <sup>11</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	9	6 <sup>1</sup> / <sub>4</sub>	17.9
4 x 3	4 <sup>1</sup> / <sub>2</sub>	5 <sup>9</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>2</sub>	23.6
4 x 4	4 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>2</sub>	12	9	28.0
5 x 4	4 <sup>1</sup> / <sub>4</sub>	7 <sup>5</sup> / <sub>16</sub>	12	9 <sup>1</sup> / <sub>2</sub>	29.8
5 x 5	5 <sup>1</sup> / <sub>2</sub>	8 <sup>5</sup> / <sub>8</sub>	13 <sup>1</sup> / <sub>2</sub>	11	33.7
6 x 2	2 <sup>11</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	9	7 <sup>1</sup> / <sub>4</sub>	24.9
6 x 3	3 <sup>1</sup> / <sub>8</sub>	6 <sup>9</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>2</sub>	30.7
6 x 4	4 <sup>1</sup> / <sub>4</sub>	7 <sup>13</sup> / <sub>16</sub>	12	10	37.3
6 x 6	5 <sup>3</sup> / <sub>4</sub>	10 <sup>5</sup> / <sub>16</sub>	15	12 <sup>7</sup> / <sub>8</sub>	55.4
8 x 4	4 <sup>3</sup> / <sub>4</sub>	8 <sup>13</sup> / <sub>16</sub>	13 <sup>1</sup> / <sub>2</sub>	11	55.6
8 x 6	6 <sup>5</sup> / <sub>16</sub>	11 <sup>5</sup> / <sub>16</sub>	16 <sup>1</sup> / <sub>2</sub>	13 <sup>7</sup> / <sub>8</sub>	73.4
8 x 8	7 <sup>1</sup> / <sub>16</sub>	13 <sup>7</sup> / <sub>8</sub>	19 <sup>1</sup> / <sub>2</sub>	17	113.1

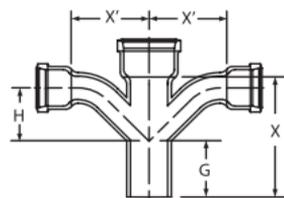


EXTRA HEAVY

## PART NO. XH 35F

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

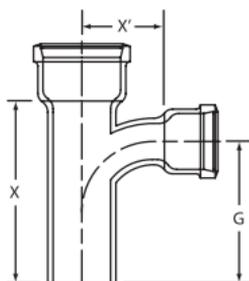
Size	G	H	X	X'	Weight
4 x 4	5 <sup>1</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>16</sub>	12	9	41.0
6 x 4	4 <sup>1</sup> / <sub>4</sub>	7 <sup>13</sup> / <sub>16</sub>	12	10	49.4



## PART NO. XH 43

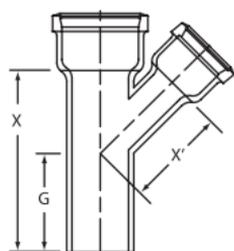
## Sanitary Tee

Size	G	X	X'	Weight
2 x 2	6 <sup>1</sup> / <sub>4</sub>	8	2 <sup>7</sup> / <sub>8</sub>	8.6
3 x 2	7	9	4	14.1
3 x 3	7 <sup>1</sup> / <sub>2</sub>	10	4	16.8
4 x 2	7	9	4 <sup>1</sup> / <sub>2</sub>	17.1
4 x 3	7 <sup>1</sup> / <sub>2</sub>	10	4 <sup>1</sup> / <sub>2</sub>	18.5
4 x 4	8	11	4 <sup>1</sup> / <sub>2</sub>	22.1
5 x 5	8 <sup>1</sup> / <sub>2</sub>	12	5	28.0
6 x 3	7 <sup>1</sup> / <sub>2</sub>	10	5 <sup>1</sup> / <sub>2</sub>	26.1
6 x 4	8	11	5 <sup>1</sup> / <sub>2</sub>	28.8
6 x 6	9	13	5 <sup>1</sup> / <sub>2</sub>	35.3
8 x 4	9 <sup>3</sup> / <sub>4</sub>	13	6 <sup>1</sup> / <sub>2</sub>	50.8
8 x 6	10 <sup>3</sup> / <sub>4</sub>	15	6 <sup>1</sup> / <sub>2</sub>	54.5
8 x 8	11 <sup>3</sup> / <sub>4</sub>	17	6 <sup>5</sup> / <sub>8</sub>	72.4
10 x 6	10 <sup>3</sup> / <sub>4</sub>	15	7 <sup>1</sup> / <sub>2</sub>	75.2
10 x 8	11 <sup>3</sup> / <sub>4</sub>	17	7 <sup>5</sup> / <sub>8</sub>	90.6
10 x 10	12 <sup>3</sup> / <sub>4</sub>	19	7 <sup>5</sup> / <sub>8</sub>	106.0
12 x 8	13	18 <sup>1</sup> / <sub>2</sub>	8 <sup>5</sup> / <sub>8</sub>	126.0
12 x 12	15	22 <sup>1</sup> / <sub>2</sub>	8 <sup>3</sup> / <sub>4</sub>	152.7
15 x 8	13	18 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>8</sub>	163.4
15 x 15	16 <sup>1</sup> / <sub>2</sub>	25 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>4</sub>	240.6



## PART NO. XH 44

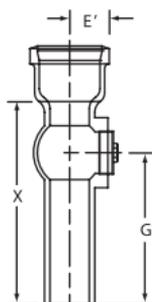
Size	Wye			Weight
	G	X	X'	
2 x 2	4	8	4	8.9
3 x 2	4 <sup>3</sup> / <sub>16</sub>	9	5	14.2
3 x 3	5	10 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	16.9
4 x 2	3 <sup>5</sup> / <sub>8</sub>	9	5 <sup>3</sup> / <sub>4</sub>	16.3
4 x 3	4 <sup>7</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>	20.0
4 x 4	5 <sup>1</sup> / <sub>4</sub>	12	6 <sup>3</sup> / <sub>4</sub>	22.7
5 x 3	3 <sup>7</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>2</sub>	7	24.0
5 x 4	4 <sup>11</sup> / <sub>16</sub>	12	7 <sup>1</sup> / <sub>2</sub>	27.2
5 x 5	5 <sup>1</sup> / <sub>2</sub>	13 <sup>1</sup> / <sub>2</sub>	8	31.6
6 x 3	3 <sup>3</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>2</sub>	7 <sup>3</sup> / <sub>4</sub>	28.1
6 x 4	4 <sup>3</sup> / <sub>16</sub>	12	8 <sup>1</sup> / <sub>4</sub>	31.3
6 x 5	4 <sup>15</sup> / <sub>16</sub>	13 <sup>1</sup> / <sub>2</sub>	8 <sup>3</sup> / <sub>4</sub>	37.2
6 x 6	5 <sup>3</sup> / <sub>4</sub>	15	9 <sup>1</sup> / <sub>4</sub>	43.0
8 x 4	4 <sup>3</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>2</sub>	52.7
8 x 6	6 <sup>5</sup> / <sub>16</sub>	16 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>2</sub>	63.8
8 x 8	7 <sup>11</sup> / <sub>16</sub>	19 <sup>1</sup> / <sub>2</sub>	11 <sup>13</sup> / <sub>16</sub>	84.5
10 x 4	3 <sup>9</sup> / <sub>16</sub>	13 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>8</sub>	71.9
10 x 6	5 <sup>1</sup> / <sub>8</sub>	16 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>8</sub>	88.2
10 x 8	6 <sup>1</sup> / <sub>2</sub>	19 <sup>1</sup> / <sub>2</sub>	13 <sup>7</sup> / <sub>16</sub>	101.7
10 x 10	8	22 <sup>1</sup> / <sub>2</sub>	14 <sup>1</sup> / <sub>2</sub>	137.0
12 x 6	5 <sup>1</sup> / <sub>16</sub>	18	13 <sup>7</sup> / <sub>16</sub>	108.0
12 x 8	7 <sup>1</sup> / <sub>16</sub>	21	14 <sup>3</sup> / <sub>4</sub>	140.0
12 x 10	8 <sup>9</sup> / <sub>16</sub>	24	15 <sup>13</sup> / <sub>16</sub>	159.4
12 x 12	10 <sup>1</sup> / <sub>8</sub>	27	16 <sup>7</sup> / <sub>8</sub>	198.0
15 x 4	6 <sup>7</sup> / <sub>8</sub>	15	15	135.8
15 x 8	5 <sup>3</sup> / <sub>8</sub>	21	17 <sup>1</sup> / <sub>16</sub>	192.2
15 x 10	6 <sup>7</sup> / <sub>8</sub>	24	18 <sup>1</sup> / <sub>8</sub>	229.0
15 x 12	8 <sup>7</sup> / <sub>16</sub>	27	19 <sup>3</sup> / <sub>16</sub>	251.1
15 x 15	10 <sup>3</sup> / <sub>4</sub>	31 <sup>1</sup> / <sub>2</sub>	20 <sup>3</sup> / <sub>4</sub>	309.4



## PART NO. XH 79

## Washington Test Tee

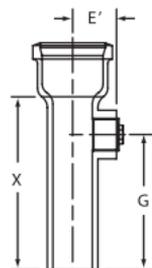
Size	IPS Tap	E'	G	X	Weight
3	4	2 <sup>7</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	10 <sup>3</sup> / <sub>4</sub>	15.3
4	4	3 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	10 <sup>5</sup> / <sub>8</sub>	18.7
5	5	3 <sup>5</sup> / <sub>8</sub>	7	11	27.2
6	6	4	8 <sup>3</sup> / <sub>4</sub>	13	27.4
8	8	5	11	16 <sup>3</sup> / <sub>8</sub>	54.8



## PART NO. XH 80

## Cleanout Tee with Brass Plug

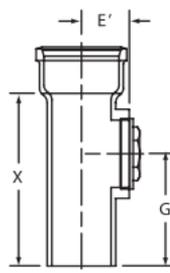
Size	IPS Tap	E'	G	X	Weight
3	2	2 <sup>1</sup> / <sub>2</sub>	7	9	10.9
4	3	3	8	11	17.4
5	4	3 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>2</sub>	12	23.6
6	4	4 <sup>1</sup> / <sub>4</sub>	9	13	26.9



## PART NO. XH 81S

## Miami Test Tee

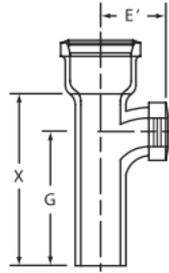
Size	IPS Tap	E'	G	X	Weight
4	4	3	7 <sup>1</sup> / <sub>4</sub>	11	16.7



**PART NO. XH 84**

**Sanitary Tapped Tee**

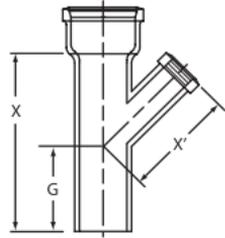
Size	E'	G	X	Weight
4 x 2	4 <sup>1</sup> / <sub>16</sub>	7	9	14.3



**PART NO. XH 85**

**Tapped Wye**

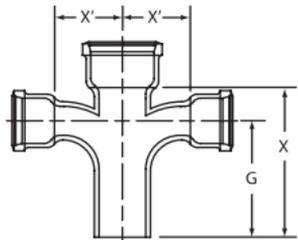
Size	G	X	X'	Weight
4 x 2	4 <sup>1</sup> / <sub>4</sub>	9	6	14.2



**PART NO. XH 109**

**Sanitary Cross**

Size	G	X	X'	Weight
4	8	11	4 <sup>1</sup> / <sub>2</sub>	28.5

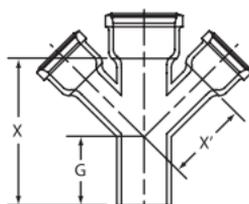


**EXTRA HEAVY**

**PART NO. XH 110**

**Double Wye**

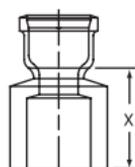
Size	G	X	X'	Weight
2	4	8	4	13.1
4 x 3	4 <sup>7</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>	26.9
4	5 <sup>1</sup> / <sub>4</sub>	12	6 <sup>3</sup> / <sub>4</sub>	29.7
6 x 4	4 <sup>3</sup> / <sub>16</sub>	12	8 <sup>1</sup> / <sub>4</sub>	39.8
6	5 <sup>3</sup> / <sub>4</sub>	15	9 <sup>1</sup> / <sub>4</sub>	48.3
8	7 <sup>1</sup> / <sub>16</sub>	19 <sup>1</sup> / <sub>2</sub>	11 <sup>13</sup> / <sub>16</sub>	119.0
10	8	22 <sup>1</sup> / <sub>2</sub>	14 <sup>1</sup> / <sub>2</sub>	182.0
12	10 <sup>1</sup> / <sub>8</sub>	27	16 <sup>7</sup> / <sub>8</sub>	278.0
15	10 <sup>3</sup> / <sub>4</sub>	31 <sup>1</sup> / <sub>2</sub>	22	384.8



**PART NO. XH 143**

**Reducer**

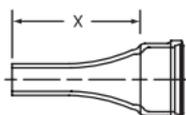
Size	X	Weight
3 x 2	4 <sup>3</sup> / <sub>4</sub>	5.8
4 x 2	5	7.2
4 x 3	5	8.8
5 x 3	5	9.2
5 x 4	5	10.4
6 x 3	5	11.7
6 x 4	5	12.0
6 x 5	5	13.9
8 x 4	6	19.8
8 x 5	6	19.5
8 x 6	6	20.1
10 x 4	6	28.0
10 x 6	6	28.4
10 x 8	6	33.8
12 x 4	6 <sup>1</sup> / <sub>2</sub>	36.8
12 x 6	6 <sup>1</sup> / <sub>2</sub>	40.2
12 x 8	6 <sup>1</sup> / <sub>2</sub>	44.4
12 x 10	6 <sup>1</sup> / <sub>2</sub>	45.4
15 x 8	6 <sup>1</sup> / <sub>2</sub>	59.4
15 x 10	6 <sup>1</sup> / <sub>2</sub>	57.0
15 x 12	6 <sup>1</sup> / <sub>2</sub>	66.5



## PART NO. XH 144

## Reducer Increaser

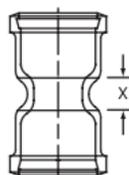
Size	X	Weight
4 x 6	9	17.0
6 x 8	12	35.5



## PART NO. XH 153

## Double Hub Fitting

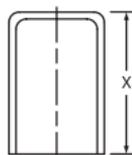
Size	X	Weight
2	1¼	5.0
4	1½	10.2
5	1½	11.8
6	1½	13.0
8	1½	30.4
10	1½	43.1
12	1½	66.6
15	1½	81.9



## PART NO. XH 155

## Pipe Plug

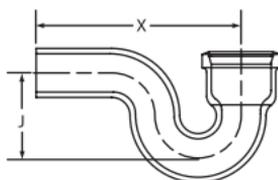
Size	X	Weight
2	3½	1.6
4	4	4.7
6	4	7.7
8	4½	14.9
10	4½	25.1
12	5¼	32.0
15	5¼	46.1



## PART NO. XH 169

## "P" Trap

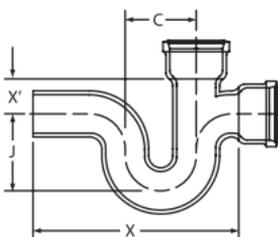
Size	J	X	Weight
2	4	9½	7.9
3	5½	12	17.1
4	6½	14	26.5
6	8½	17	47.4
8	10½	22½	102.0



## PART NO. XH 174

## Running Trap with Single Hub Vent

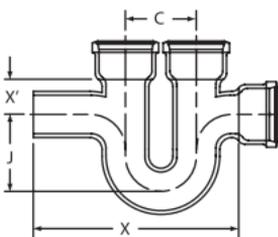
Size	Vent Size	C	J	X	X'	Weight
3	3	5	5½	15	2½	22.8
4	4	6	6½	17½	3	37.6
5	4	7	7½	19½	3½	43.7
6	4	8	8½	21½	4	59.0



## PART NO. XH 175

Running Trap  
with Double Hub Vent

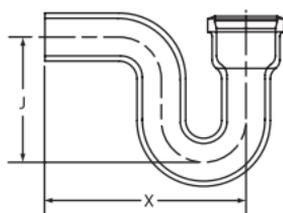
Size	Vent Size	C	J	X	X'	Weight
3	3	5	5½	15	2½	27.5
4	4	6	6½	17½	3	38.5
5	4	7	7½	19½	3½	50.6
6	4	8	8½	21½	4	65.5
6	6	8	8½	21½	4	71.0
8	4	10	11	27⅝	5¼	127.0
8	6	10	11	27⅝	5¼	125.9
10	8	12	13	31⅝	6¼	204.9
12	6	15	15	38¾	7¼	247.6



**PART NO. XH 180**

**Deep Seal "P" Trap**

Size	X	J	Weight
2	9½	6	9.8
3	12	7	19.9
4	14	8	31.2

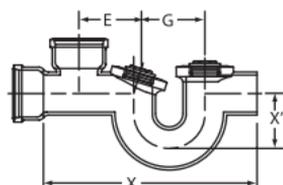


**EXTRA HEAVY**

**PART NO. XH 184<sup>(T)</sup>**

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

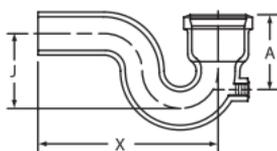
Size	Vent Size	E	G	X	X'	Weight
4	3	5¼	6¼	20½	5½	41.1
4	4	5¾	6¼	20½	5½	41.8



**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	17.2
4	14	6½	4⅝	27.2



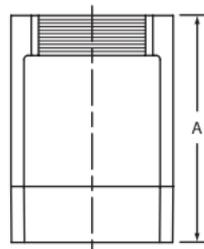
<sup>(T)</sup> Note: 3½" IPS tap

**PART NO. XH 230**

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

**and PART NO. XH 230S**

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

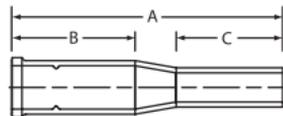


Size	Tap Size	A	XH 230 Weight	XH 230S Weight
2*	1½	3½	–	1.7
3*	2½	3¾	–	3.2
4	3½	4¼	4.0	4.7
5*	4	4¼	–	6.5
6	5	4¼	8.6	8.6
8	6	4½	20.1	15.5
10	6	4½	19.7	23.2
12	6	5¼	29.9	33.1
15	6	5¼	73.4	74.9

**PART NO. XH 253**

**Sission Insertable Joint**

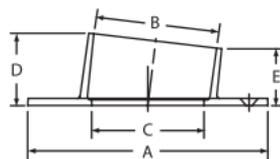
Size	A	B	C	Weight
4	14½	7	6	17.1
6	16¾	8½	6	26.6



**PART NO. XH 549**

**Roof Iron**

Size	A	B	C	D	E	Weight
4	10 <sup>7</sup> / <sub>16</sub>	5 <sup>3</sup> / <sub>8</sub>	4 <sup>13</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	2½	8.2



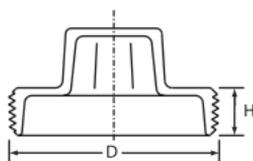
\* This size available only as XH 230S with plug.

# Plugs

## PART NO. PLG 410

### Ohio Code Brass Plug

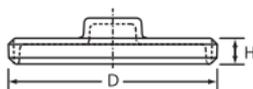
Size	D	H	Weight
10	$10^{23/32}$	$2^{1/32}$	10.7



## PART NO. PLG 430

### Southern Code Brass Plug

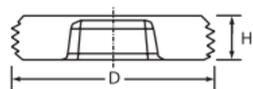
Size	D	H	Weight
1 1/2	$1^{57/64}$	$49/64$	0.2
2	$2^{23/64}$	$49/64$	0.3
2 1/2	$2^{55/64}$	$51/64$	0.4
3	$3^{15/32}$	$57/64$	0.5
3 1/2	$3^{63/64}$	$57/64$	0.7
4	$4^{31/64}$	$61/64$	0.9
5	$5^{35/64}$	$61/64$	1.2
6	$6^{19/32}$	$17/32$	2.2
8	$8^{39/64}$	$19/32$	3.5



## PART NO. PLG 440

### Southern Code Countersunk Brass Plug

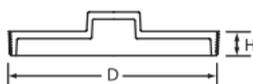
Size	D	H	Weight
1 1/2	$1^{57/64}$	$13/32$	0.2
2	$2^{23/64}$	$7/16$	0.3
3	$3^{15/32}$	$33/64$	0.6
3 1/2	$3^{63/64}$	$33/64$	0.7
4	$4^{31/64}$	$35/64$	0.9
5	$5^{35/64}$	$11/16$	1.3
6	$6^{19/32}$	$11/16$	2.2



## PART NO. PLG 450

### Cast Iron Plug

Size	D	H	Weight
6	$6^{35/64}$	$1^{17/64}$	4.2
10	$10^{39/64}$	$1^{31/32}$	9.8



# CHARLOTTE

## PIPE AND FOUNDRY COMPANY®

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

### **SERVICE HUB AND SPIGOT PIPE AND FITTINGS**

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

ASTM A 74

Listed by NSF® International to the UP Code

ICC-ES PMG-1082/1083

### **EDGE HP 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

Meets or exceeds the coating performance requirements of EN 877

Listed by NSF® International to the UP Code

ICC-ES PMG-1082/1083

### **EXTRA HEAVY HUB AND SPIGOT PIPE AND FITTINGS**

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

ASTM A 74

Listed by NSF® International to the UP Code

ICC-ES PMG-1082/1083

### **EDGE HP EXTRA HEAVY HUB AND SPIGOT PIPE AND FITTINGS**

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

ASTM A 74

Meets or exceeds the coating performance requirements of EN 877

listed by NSF® International to the UP Code

CC-ES PMG-1082/1083

### **HUBLESS PIPE AND FITTINGS**

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

CISPI Standard 301

ASTM A 888

Listed by NSF® International to the UP Code

ICC-ES PMG-1082/1083

CSA B 70 Listed on specified products

### **EDGE HP NO-HUB (HUBLESS) PIPE AND FITTINGS**

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

CISPI Standard 301

ASTM A 888

Meets or exceeds the coating performance of EN 877

Listed by NSF (R) International to the UP Code

ICC-ES PMG-1082/1083

CSA B 70 Listed on specified products

### **HUBLESS COUPLINGS**

CISPI Standard 310

ASTM C 1277

Certified by NSF® International

### **HUBLESS HEAVY DUTY COUPLINGS**

ASTM C 1540

Factory Mutual 1680

### **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 product and any other incidental, consequential, or punitive damages. **This limited warranty is the only warranty made by seller and is expressly in lieu of all other warranties, express and implied, including any warranties of merchantability and fitness for a particular purpose.** No statement, conduct or description by Charlotte Pipe or its representative, in addition to or beyond this Limited Warranty, shall constitute a warranty. This Limited Warranty may only be modified in writing signed by an officer of Charlotte Pipe.

This Limited Warranty will not apply if:

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

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

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

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

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

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

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

5/19/23

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

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