

SUBMITTAL FOR CHARLOTTE PIPE® HUBLESS CAST IRON SOIL PIPE AND FITTINGS

Date: _____

Job Name: _____

Location: _____


Engineer: _____

Contractor: _____

► Scope:

This specification covers Hubless Cast Iron pipe, fittings, and couplings used in sanitary drain, waste and vent (DWV), sewer, and storm drainage applications. This system is intended for use in non-pressure applications.

► Specification:

Hubless Cast Iron pipe and fittings shall be manufactured from gray cast iron and shall conform to ASTM A 888 and CISPI Standard 301. All pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute®  and listed by NSF® International. Hubless Couplings shall conform to CISPI Standard 310, shall be manufactured in the United States, and be certified by NSF® International. Heavy Duty and Medium Duty couplings shall conform to ASTM C 1540, shall be manufactured in the United States, and shall be used if indicated.

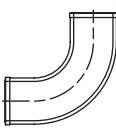

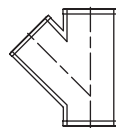
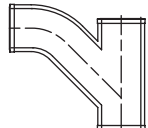
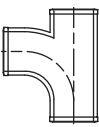
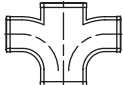
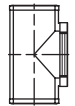

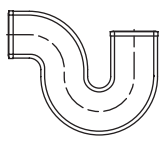
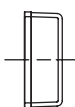
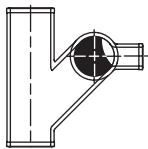
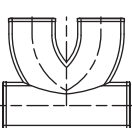
► Installation:

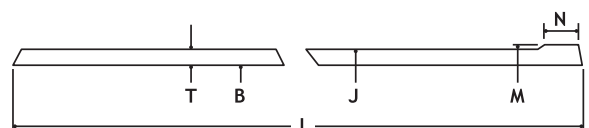
Installation shall comply with the latest installation instructions published by Charlotte Pipe and Foundry Company® and shall conform to all applicable plumbing, fire, and building code requirements. The system shall be hydrostatically tested after installation to 10 ft. of head (4.3 psi maximum). **WARNING!** Never test with or transport/store compressed air or gas in Cast Iron pipe or fittings. Doing so can result in explosive failures and cause severe injury or death.

► Referenced Standards:

- ASTM C 564: Rubber Gaskets for Cast Iron Soil Pipe and Fittings
- CISPI 301: Hubless Cast Iron Soil Pipe and Fittings
- CISPI 310: Hubless Couplings for Cast Iron Soil Pipe and Fittings
- ASTM C 1277: Hubless Couplings
- ASTM C 1540: Hubless Medium Duty and Heavy Duty Couplings



			
1/4 Bend	1/8 Bend	Wye	Combination
			
San Tee	San Cross	Test Tee	Reducer
			
"P" Trap	Blind Plug	Figure Eight	Two-Way Cleanout
Not all fitting patterns shown			

																																																																																															
TABLE 1 DIMENSIONS AND TOLERANCES (IN INCHES) OF SPIGOTS AND BARRELS FOR NO-HUB PIPE AND FITTINGS																																																																																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Size</th> <th>Inside Barrel Diameter</th> <th>Outside Diameter Barrel</th> <th>Outside Diameter Spigot</th> <th>Width Spigot Bead N</th> <th colspan="2">Thickness of Barrel</th> <th>Gasket Positioning Lug</th> </tr> <tr> <th>B</th> <th>J</th> <th>M</th> <th>(± .13)</th> <th>T-Nom.</th> <th>T-Min.</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>1 1/2</td> <td>1.50 ± .09</td> <td>1.90 ± .06</td> <td>1.96 ± .06</td> <td>.25</td> <td>.16</td> <td>.13</td> <td>1.13</td> </tr> <tr> <td>2</td> <td>1.96 ± .09</td> <td>2.35 ± .09</td> <td>2.41 ± .09</td> <td>.25</td> <td>.16</td> <td>.13</td> <td>1.13</td> </tr> <tr> <td>3</td> <td>2.96 ± .09</td> <td>3.35 ± .09</td> <td>3.41 ± .09</td> <td>.25</td> <td>.16</td> <td>.13</td> <td>1.13</td> </tr> <tr> <td>4</td> <td>3.94 ± .09</td> <td>4.38 ± .09</td> <td>4.44 ± .09</td> <td>.31</td> <td>.19</td> <td>.15</td> <td>1.13</td> </tr> <tr> <td>5</td> <td>4.94 ± .09</td> <td>5.30 ± .09</td> <td>5.36 ± .09</td> <td>.31</td> <td>.19</td> <td>.15</td> <td>1.50</td> </tr> <tr> <td>6</td> <td>5.94 ± .09</td> <td>6.30 ± .09</td> <td>6.36 ± .09</td> <td>.31</td> <td>.19</td> <td>.15</td> <td>1.50</td> </tr> <tr> <td>8</td> <td>7.94 ± .13</td> <td>8.38 ± .09</td> <td>8.44 ± .09</td> <td>.31</td> <td>.23</td> <td>.17</td> <td>2.00</td> </tr> <tr> <td>10</td> <td>10.00 ± .13</td> <td>10.56 ± .09</td> <td>10.62 ± .09</td> <td>.31</td> <td>.28</td> <td>.22</td> <td>2.00</td> </tr> <tr> <td>12</td> <td>11.94 ± .09</td> <td>12.50 ± .13</td> <td>12.62 ± .13</td> <td>.31</td> <td>.28</td> <td>.22</td> <td>2.75</td> </tr> <tr> <td>15</td> <td>15.11 ± .09</td> <td>15.83 ± .13</td> <td>16.12 ± .13</td> <td>.31</td> <td>.36</td> <td>.30</td> <td>2.75</td> </tr> </tbody> </table>	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
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Note: Charlotte Pipe does not recommend or warrant installations joined with unshielded hubless couplings.

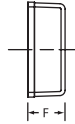
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PART NO. NH 50

Blind Plug

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

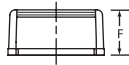


PART NO. NH 52

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

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

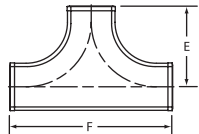
Size	F	IPS	
		Tapping	Weight
2	2 ³ / ₁₆	1½	0.9
3	2 ³ / ₁₆	2½	1.9
4	2 ³ / ₁₆	3½	2.5
5	4½	4	6.5
6	4½	5	8.0
8	4½	6	12.1



PART NO. NH 53

Single Two-Way Cleanout

Size	E	F	Weight
4	7½	15	16.0



PART NO. NH 53A

Two-Way Cleanout

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

