

Material Specification – 1

DUCTILE IRON PIPE

1. GENERAL

DI pipe shall be manufactured in accordance with AWWA C151 with the following additional requirements or exceptions.

2. SIZES

This Specification covers DI pipe in 3-inch, 4-inch, 6-inch, 8-inch, 10-inch, 12-inch, 16-inch, and 20-inch nominal diameters.

3. JOINT TYPE

The joint type shall be push-on single gasket in accordance with AWWA C111. Other joint types may be acceptable if specifically approved by Denver Water.

4. PIPE WALL THICKNESS

Pipe furnished under this Specification shall have the following minimum DI wall thickness:

| Nominal Pipe Diameter (Inch) | Minimum DI Wall Thickness (Inch) |
|------------------------------|----------------------------------|
| 3 | 0.25 |
| 4 | 0.26 |
| 6 | 0.25 |
| 8 | 0.27 |
| 10 | 0.29 |
| 12 | 0.31 |
| 16 | 0.34 |
| 20 | 0.36 |

5. PIPE LENGTH

Pipe furnished under this Specification shall have a nominal laying length of 18-feet or 20-feet. Random lengths are not acceptable.

6. MATERIAL STRENGTH

The grade of iron shall be 60-42-10.

7. LININGS

Pipe furnished under this Specification shall have standard thickness cement-mortar linings in accordance with AWWA C104.

8. QUALITY CONTROL

The Manufacturer shall submit a written statement that the inspection and all specified tests have been completed and that results comply with the requirements of these Standards. Components in contact with potable water shall be certified to comply with NSF/ANSI 61, and a copy of the NSF/ANSI 61 certification shall be

provided to Denver Water, if requested. DI pipe shall be UL listed, and a copy of the UL certification shall be provided to Denver Water, if requested.

9. PLACE OF MANUFACTURE

DI pipe installed in the City and County of Denver and Total Service Contract Areas shall be manufactured domestically.

10. APPROVED MANUFACTURERS

| Manufacturers | Size (Inch) |
|--|--------------------|
| American Cast Iron Pipe Company | 4 to 20 |
| McWane Ductile | 3 to 20 |
| U. S. Pipe and Foundry Company/Griffin Pipe Products | 3 to 20 |

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