

Materials Specification – 1 for DUCTILE IRON PIPE

Push-On Single Gasket Joint 3-Inch, 4-Inch, 6-Inch, 8-Inch, 12-Inch, 16-Inch, 20-Inch, 24-Inch, 30-Inch, 36-Inch and 42-Inch Diameter

1. GENERAL:

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

2. SIZE OF PIPE:

This Specification covers ductile iron pipe in 3-inch, 4-inch, 6-inch, 8-inch, 12-inch, 16-inch, 20-inch, 24-inch, 30-inch, 36-inch and 42-inch nominal diameters.

3. JOINT TYPE:

The joint type shall be push-on single gasket that conforms to the applicable requirements of AWWA C111. Other joint types may be acceptable if they are specifically approved by Denver Water.

4. PIPE WALL THICKNESS:

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

<u>Nominal Pipe Diameter (Inches)</u>	<u>Minimum Ductile Iron Wall Thickness (Inches)</u>
3	0.25
4	0.26
6	0.25
8	0.27
12	0.31
16	0.34
20	0.36
24	0.41
30	0.43
36	0.48
42	0.53

5. PIPE LENGTH:

Pipe furnished under this Specification shall have a nominal laying of length of 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 and shall be given a seal coat of asphaltic material.

8. CERTIFICATION:

The manufacturer shall furnish a sworn statement that the inspection and all of the specified tests have been completed and that the results comply with the requirements of these Standards. A copy of the Certification, including compliance with ANSI/NSF 61, shall be sent to Denver Water.

9. ACCEPTABLE MANUFACTURERS:

American Cast Iron Pipe Company
Griffin Pipe Products Company
Pacific States Cast Iron Pipe Company
United States Pipe and Foundry Company
McWane Cast Iron Pipe Company (3-inch and 4-inch only)

10. PLACE OF MANUFACTURER:

Ductile iron pipe that is to be installed in the City and County of Denver and Total Service Contract Areas shall be manufactured domestically.

*Material Specification – 1
Ductile Iron Pipe*