

**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, and 20 inch, 24 inch, 30 inch, 36 inch, and 42 inch nominal diameters.

**3. JOINT TYPE:**

Push-on single gasket type conforming with applicable requirements of 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 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 made, and the results thereof comply with the requirements of the applicable Standard(s) herein specified. A copy of the Certification including compliance with NSF/ANSI 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 – 4 inch only)

**10. PLACE OF MANUFACTURER:**

Ductile iron pipe to be installed in the City and County of Denver and Total Service Areas shall be of domestic manufacture.

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