

**ROGERS WATER UTILITIES WATER SYSTEM
ROGERS, ARKANSAS**

**SPECIFICATIONS FOR DUCTILE IRON PIPE
REVISED NOVEMBER 2006**

1. SCOPE

This specification covers 4 in., 6 in, 8 in., 12in., 18 in., 24 in. and 30 in. through 54 in. in diameter ductile-iron pipe, centrifugally cast, for water or other liquids, with push-on, mechanical or flanged joints. All pipe furnished shall be in conformance with ANSI/AWWA Standard C151/A21.51.91, or latest revision thereof.

2. GENERAL REQUIREMENTS

- a. All pipe shall conform to the following classes, based upon Type 5 bedding conditions and a working pressure of 150 pounds per square inch:

<u>Pipe Diameter</u>	<u>Minimum Pressure Class</u>	<u>ANSI Thickness Class</u>
4", 6", 8", 12"	350 psi	50 or greater
18"	350 psi	51 or greater
24"	350 psi	52 or greater
30" through 54"	250 psi	51 or greater

- b. Dimension and tolerance for each nominal pipe size shall be in accordance with Table 51.5 (push-on) or Table 51.5 (mechanical joint) of AWWA Standard C151 for pipe with nominal laying length of 20 feet.
- c. Flanged end pipe shall conform to ANSI A21.51/AWWA C115.
- d. All pipes shall have an interior cement mortar lining with seal coat applied in accordance with ANSI A21.4/AWWA C104, latest revision. No asphaltic coating will be required on the interior cement mortar lining.
- e. Exterior coating shall consist of a nominal one-mil thick asphaltic material applied to the outside of the pipe as described in section 51.8.1 of AWWA C151.
- f. All rubber joint gaskets utilized on ductile-iron pipe shall be in conformance with ANSI A21.11/AWWA C111, latest revision.
- g. Each length of pipe furnished shall bear identification markings in conformance with Sec. 51.10 of AWWA Standard C151.

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- h. Lubricant furnished for lubricant joints shall be non-toxic and shall conform to ANSI 21.11. The lubricant container must be labeled with the manufacturer's name.
- i. The Rogers Water Utilities may, at no cost to the manufacturer, subject random lengths of pipe for testing by an independent laboratory for compliance with this specification. Any visible defects or failure to meet quality standards herein will be grounds for rejecting the entire order.

The following manufacturers are approved for push-on, mechanical joint and flanged ductile iron pipe.

APPROVED MANUFACTURERS LIST

American Cast Iron Pipe Company
Griffin Pipe Company
U.S. Pipe Company
McWane Cast Iron Company