

Part 642 – Specifications

Chapter 3 – National Standard Material Specifications

Material Specification 553—Ductile Iron Pipe

A. Scope

This specification covers the quality of ductile-iron pipe and fittings.

B. Pipe

Ductile-iron pipe shall conform to the requirements of ANSI/AWWA C151/A21.51-02, Ductile-Iron Pipe, Centrifugally Cast in Metal Molds or Sand-Lined Molds for Water or Other Liquids, and ANSI/AWWA C115/A21.15-20, Flanged Ductile-Iron Pipe with Threaded Flanges.

C. Fittings

Ductile-iron pipe fittings shall conform to the requirements of ANSI/AWWA C110/A21.10-12, Ductile-Iron and Gray-Iron Fittings, 3-inch through 48-inch, for Water and Other Liquids, and ANSI/AWWA C153/A21.53-19, Ductile-Iron Compact Fittings, 3-inch through 12-inch, for Water and Other Liquids.

D. Joints

Rubber-gasket joints for ductile-iron pipe and fittings where either mechanical or push-on joints are used shall conform to the requirements of ANSI/AWWA C111/A21.11-17, Rubber-Gasket Joints for Ductile-Iron and Gray-Iron Pressure Pipe and Fittings.

E. Lining

Interior lining for ductile-iron pipe and fittings shall conform to the requirements of ANSI/AWWA C104/A21.4-16, Cement Mortar Lining for Ductile-Iron Pipe and Fittings for Water.

F. Encasement

Encasement for ductile-iron pipe and fittings shall conform to the requirements of ANSI/AWWA C105/A21.5-18, Polyethylene Encasement for Ductile-Iron Pipe for Water and Other Liquids.