# Standard Products List for Ductile Iron Fittings

**Using Department:** Austin Water  
**Prepared By:** Bill Flynn, P.E.  
**Issued:** 10/01/87  
**Revised By:** Jeff Kyle, P.E.  
**Revised:** 10/01/18

## Description:
Ductile Iron Fittings complying with AWWA C110. All fittings shall have markings cast on the body as required by AWWA C110. All fittings shall be asphalt coated or zinc/asphalt coated and cement-mortar lined with asphaltic seal coat complying with AWWA C104. Alternately, the fittings may be fusion-bonded epoxy lined and coated according to AWWA C116. Fusion-bonded epoxy must be red and shall comply with requirements of NSF 61. (See SPL WW-27A for Joint Restraint Devices, SPL WW-27B for Compact Ductile Iron Fittings and Fitting Weight Schedule complying with AWWA C153, or SPL WW-27F for Restrained Joint Ductile Iron Pipe and Fittings.) Wastewater fittings shall be lined with approved corrosion resistant material (see SPL WW-534). Lining to be used shall be shown on submittal, with type, brand, and lot number marked on each fitting. No more than one type or brand of lining shall be used for any project. These fittings are not to be used for gravity flow wastewater applications except when in the opinion of the Engineer the strength of DI makes its use appropriate; it may be used only if specifically shown on approved engineering drawings.

<table>
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<tr>
<th>Listing Date</th>
<th>Manufacturer</th>
<th>Product Identification/Comment</th>
<th>Approval</th>
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| 07/01/98     | American Cast Iron Pipe Co.  
P.O. Box 2727  
Birmingham, AL 35202 | See Notes | W. Flynn |
| 07/01/98     | U.S. Pipe & Foundry Co.  
P.O. Box 10406  
Birmingham, AL 35202 | See Notes | W. Flynn |
| 07/01/98     | Tyler Union/Division of McWane  
P.O. Box 309  
Anniston, AL 36202 | See Notes | W. Flynn |
| 04/01/04     | C-1 Foundry (China), WFD, EC, SC, JX, XD, HD, EC, Foundries (India), Hj Foundries (Korea)  
Star Pipe Products  
4018 Westhollow Pkwy.  
Houston, TX 77082 | See Notes | R. Lamb |
| 01/01/12     | US Pipe/Metalfit (Mexico)  
Metalfit  
5583 Snowflake Way  
Parker, CO 80134 | Fittings Only (Flanged)  
See Notes | R. Lamb |
| 07/01/13     | Shanxi Yuansheng (China)  
Accucast  
415 S. 21st Ave.  
Waco, TX 76706 | Fittings Only (Flanged)  
See Notes | R. Lamb |
| 10/01/13     | Calcutta Springs Foundry (India), XYF Foundry (China), Himigiri Castings Foundry (India)  
Sigma  
500 Askins  
Houston, TX 77093 | See Notes | R. Lamb J. Kyle |
NOTES:
1. Materials shall meet applicable specification requirements. Acceptable sizes for potable and reclaimed waterline fittings are 4", 6", 8", 12", 16", 24", 30" and multiples of 6" in larger sizes. 14", 18" and 20" are acceptable for repair only. Sizes for wastewater force mains shall be determined based on specific project requirements.
2. Submittal shall include results of independent laboratory testing showing that seal coating on fittings meets test requirements of Section 5.2 of AWWA Standard C104, and is in compliance with Section 4.12 of that Standard.
3. Fitting manufacturer shall certify that the lining will withstand, without damage, high pressure jet washing that is used to flush lines prior to CCTV inspection and as required for normal maintenance purposes.
4. For fittings larger than 24" diameter, manufacturer must provide one of the following with PROJECT submittal: a) evidence of current ISO registration, b) evidence of current Austin Water-approved quality control program, or c) evidence of current Austin Water-approved independent, third party firm that will test and inspect fittings produced for City of Austin, as per Standard Specification Item 510.
5. Zinc coating for DI fittings will be considered on a case by case basis and only as approved by AW. When used, fittings shall be identified as “Zinc Coated” (or similar), and zinc coating shall be applied as a base layer under an asphaltic seal coat that complies with AWWA C104. The use of polywrap is required with zinc coated fittings.

LATEST REVISIONS:
1. Added Sigma MJ Fittings.