

# FUSION BONDED EPOXY COATED C153 DUCTILE IRON MECHANICAL JOINT FITTINGS

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### BASIC SPECIFICATIONS

- SIZES:**
- 2" - 64"
- MATERIAL:**
- Ductile Iron ASTM A536, Grade 65-45-12, 60-42-10 or 70-50-05.
- PRESSURE:**
- 350 PSI Water Working Pressure 2" - 24".
  - 250 PSI Water Working Pressure 30" - 48".
  - 150 PSI Water Working Pressure 54" - 64".
- TESTING:**
- In accordance with ANSI/AWWA C153/A21.53.
  - In accordance with UL - FM requirements.
  - All fittings are hydrostatically tested in accordance with SIGMA Quality Management Standard.
  - All fittings are heat coded to ensure traceability and verification of metallurgical properties in accordance with the prevailing standards and SIGMA Quality Management Standards.
- LAYING LENGTH:**
- Short body design - straight section of body deleted to provide a compact and lighter fitting without reducing strength or flow characteristics.
  - In accordance with ANSI/AWWA C153/A21.53.
- DEFLECTION:**
- Maximum allowable deflection for MJ Joint on a full length pipe is as mentioned below:
    1. 3" - 4" = 8 Degrees
    2. 6" = 7 Degrees
    3. 8" - 12" = 5 Degrees
    4. 14" - 48" = 3 Degrees
- COATING:**
- SIGMA FBE Coated Fittings are NSF61 and Annex G approved for potable water applications. The Epoxy Coated Fittings meet or exceed ANSI/AWWA C116/A21.16 and C550 standards (Protective Fusion-Bonded Epoxy Coatings for the Interior and Exterior surfaces of Ductile-Iron and Gray-Iron fittings for water supply service).
  - FBE coated fittings of SIGMA are available from 2" to 48" in accordance with ANSI/AWWA C153/A21.53.
- GASKETS:**
- SBR in accordance with ANSI/AWWA C111/A21.11.
  - Also available in EPDM, NBR and CR.
- T-BOLTS:**
- Low Alloy corrosion resistant high strength steel in accordance with ANSI/AWWA C111/A21.11.
- APPROVALS:**
- 3"-16" Underwriters Laboratories listed and Factory Mutual Approved.
- STANDARDS:**
- Certified to NSF61 Standard including Annex G & 372.
  - ANSI/AWWA C153/A21.53 for Compact Ductile Iron Fittings 2"-64" for water and other liquids.
- INSTALLATION:**
- Per ANSI/AWWA C600 and C111 using DIP conforming to C150/C151 and PVC pipe conforming to C900/C905.