SIGMA™

Quality – Service – Commitment – Delivered.

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 Certified to Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372 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 NSF/ANSI/CAN 61 and NSF/ANSI 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.

FM APPROVED

Member

Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372