



TR FLEX®

Restrained Joint Ductile Iron Pipe and Fittings

Flexibility is key in infrastructure and the U.S. Pipe TR FLEX® is designed to provide that needed flexibility. The TR FLEX is a restrained push-on joint for 4" through 36" pipe and fittings. Providing a maximum of 5° of deflection the TR FLEX is suited for a variety of applications including open trench projects and Horizontal Directional Drilling (HDD). The design provides an easily assembled and disassembled joint.

The TR FLEX Restrained Joint has a working pressure rating equivalent

to the working pressure rating of the parent pipe, with a maximum restrained joint working pressure rating of 350 psi except that 30"-36" have a 100 psi reduction in joint rating for a given parent pipe pressure class e.g. 30-36" TR FLEX Restrained Joints are rated for a maximum 250 psi with Pressure Class 350 parent pipe. Conversely, a 24" PC 200 pipe will have a restrained joint rating of 200 psi.

TR FLEX Pipe and Fittings utilize the conventional TYTON® Gasket

for 4" through 36" sizes. Ductile Iron locking segments, inserted through a slot (or slots) in the bell face, provide a positive axial lock between the bell interior surface and a retainer weldment on the spigot end of the pipe.

Various coatings and linings are available for the TR FLEX, including metallic zinc coating, Protecto-401, and more. The standard cement-mortar lining supplied in pipe is ASTM C150 Type II. .

FEATURES & BENEFITS

- Restrained Joint Pipe with Easy Assembly / Disassembly
- Flexible Restraint
- 4-24" is rated up to 350 psi, and 30-36" rated up to 250 psi
- Large selection of joints and fittings available
- Available with Zinc Metallic Coating

PIPE

FABRICATION

RESTRAINED JOINTS

FITTINGS

GASKETS

COATINGS & LININGS <



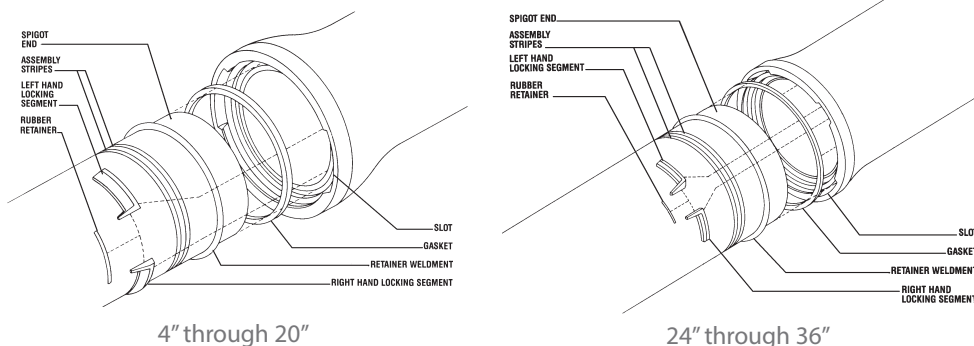
GENERAL SPECIFICATIONS

INCH	PSI		DEGREE	FEET
DIAMETER	WORKING PRESSURE	NO. OF D.I. LOCKING SEGMENTS	MAX. DEFLECTION ANGLE	PULLOUT
				FL
4	350	2	5°	.03
6	350	2	5°	.04
8	350	2	5°	.04
10	350	2	5°	.05
12	350	4	5°	.06
14	350	4	3¼°	.05
16	350	4	3¼°	.05
18	350	4	3°	.05
20	350	4	2½°	.05
24	350	8	2¼°	.05
30	250	8	1¾°	.05
36	250	8	1½°	.05

STANDARDS

- ANSI/AWWA C151/A21.5 Ductile Iron Pipe, Centrifugally Cast for Water.
- ANSI/AWWA C104/A21.4 Cement-Mortar Lining for Ductile-Iron Pipe and Fittings for Water.
- ANSI/AWWA C153/A21.53 Ductile Iron Compact Fittings for Water Service Or ANSI/AWWA C110/A21.10 Ductile Iron and Gray Iron Fittings 3 In through 48 In for Water.
- ASTM A746-03 Standard specification for Ductile Iron Gravity Sewer Pipe.
- ASTM A716-08 Standard Specification for Ductile Iron Culvert Pipe.
- ASTM C150 Standard Specification for Portland Cement
- ASTM A536 Standard Specification for Ductile Iron Castings.

ASSEMBLY



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A Forterra Company



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