



Title	Joint Restraints Deflection
Issue Date	September 3, 2021
Document #	110.01

Joint restraints can accommodate deflection, but it can vary with each type of restraints. Pipe to pipe push on joints have published deflection, size dependent. Pipe to fitting also have published deflection, again size dependent. When you add joint restraint to these connections it can affect the deflection. An example of this DI sized pipe in MJ fittings.

Size	Standard deflection	with DI joint restraint
4"	8°	5°
6"	7°	5°
8" – 12"	5°	5°
14" – 16"	3½°	3°
18" – 24"	3°	3°
30" – 36"	2°	2°
42" – 48"	2°	1°

For further information regarding SIP joint restraints and deflection please contact the Technical Service department at our Corporate Office in Houston, TX.

Reference:

- AWWA C600 - Installation of Ductile-Iron Mains and Their Appurtenances
- AWWA C153 & C110 - Ductile-Iron and Gray-Iron Fittings

