



**SIP Industries**  
*Quality Manufacturer Since 1960*

Title	Joint Restraints used on Plain End Fittings
Issue Date	December 24, 2020
Document #	106.01

Joint restraints in our industry were design to be used on plain end pipe. Plain end Ductile Iron fittings are not made to the same specifications as DI Pipe. Two major differences are the annealing process of pipe vs fittings and the surface texture of each.

SIP Industries does not recommend the use of its wedge action or set screw type joint restraints on the spigot end of a plain end Ductile Iron fitting. Use of these restraints can possibly deform or not adequately make the necessary contact to the spigot end of the fitting. This can compromise the integrity of the joint even if it seals and hold on initial connection.

We recommend the use of Standard Mechanical Joint Glands in conjunction with All Thread Rod, Socket Clamps, Lug Washers and Duc Lugs to secure the joint. The use of Thrust blocks can also be employed for additional stability.



---

**SIP CORPORATE** 8876 Gulf Freeway, Suite 500, Houston, TX 77017

**SIP CENTRAL** 2900 Patio Drive, Houston, TX 77017

**SIP EAST** 600 Rayloc Drive, Atlanta, GA 30336

**SIP WEST** 8333 Almeria Avenue, Fontana, CA 92335

Phone: 877-921-6111 or 713-923-6111 | Fax: 713-923-6114 | [www.sipindustries.com](http://www.sipindustries.com) | [sales@sipindustries.com](mailto:sales@sipindustries.com)