



## RieberLok

The following provides a comparison of NAPCO Certa-Lok® Restrained Joint Integral Bell (RJIB) pipe to a RieberLok gasket installed in standard C900 pipe.

### Maximum Pull Force:

- Restrained joint pipe is needed for Horizontal Directional Drilling (HDD) applications. Certa-Lok C900 RJIB is the ideal product for HDD, with pull forces exceeding those of RieberLok gasketed pipe; in some cases by a factor of two times.
- RJIB pull force is calculated at a 2:1 safety factor. RieberLok does not publish a pull force safety factor.

MAXIMUM PULL FORCE				
Size	DR18 (lbf)		DR14 (lbf)	
	Certa-Lok	RieberLok	Certa-Lok	RieberLok
4"	7,800*	4,300	9,800*	5,500
6"	20,100	8,800	22,300	11,000
8"	27,500	15,000	31,000	20,000
10"	49,500	23,000	52,600	30,000
12"	60,000	32,000	60,000	42,000
16"	68,500	n/a	72,000	n/a

\*RJ coupled pipe, RJIB not available in 4" size.

### Installation:

- Certa-Lok RJIB pipe uses a spline lock system which locks the joint in both directions, allowing pipe to be pushed or pulled without danger of over bellling the joint.
- RieberLok gaskets are designed to lock the pipe when being pulled only. Pushing the pipe, as often happens during trenchless installations may result in over bellling which can cause joint failure. An additional external restraint is required to prevent this when a RieberLok joint is pushed.
- RJIB can be disassembled and reassembled quickly and easily multiple times if needed, while RieberLok is a one insertion solution, no room for unforeseen installation challenges.
- If a joint has to be cut out, RJIB can be field grooved to save the pipe.
- Use of external restraints in HDD applications require expensive upsizing of the bore hole.
- RJIB system includes restrained transitions and sweeps.

### Agency Certifications:

- Every RJIB pipe is hydrotested at the factory assuring compliance with AWWA, NSF and UL standards.
- Field replacement of pipe gaskets voids AWWA listing.

### Warranty:

- NAPCO has always provided a comprehensive warranty for its product.
- RieberLok initially warranted only their gasket; however, it has now extended its warranty to include pipe replacement reportedly due to failures of the RieberLok gasket.

### Joint Restraint:

RieberLok's metallic 'teeth' dig deeply into the pipe spigot to achieve restraint.



NAPCO RJIB has no metallic parts which can corrode or damage pipe; a plastic spline is used to achieve restraint.



### Proven Performance:

- Millions of feet of Certa-Lok have been successfully installed over 20 years in a variety of applications, including water and sewer, agricultural irrigation, water wells, and mining.

### Availability:

- RJIB is available from major waterworks distribution branches nationally.
- RJIB is produced in 3 geographically dispersed NAPCO plants across the U.S.
- Additional pipe is readily available if needed on a job site.