



AWIS MAINS

Bell Joint Leak Clamps

Smith Blair Bell Joint Leak Clamp provides a fast economical means of sealing or preventing leaks in pipes with bell and socket caulked or rubber ringed joints. The design of the Kee-Loc gasket and Bell Spigot rings enables a single clamp to fit both caulked and rubber gasket joints on virtually all classes and brands of cast, ductile and AC pipe in nominal sizes up to 1.00m diameter. These are also

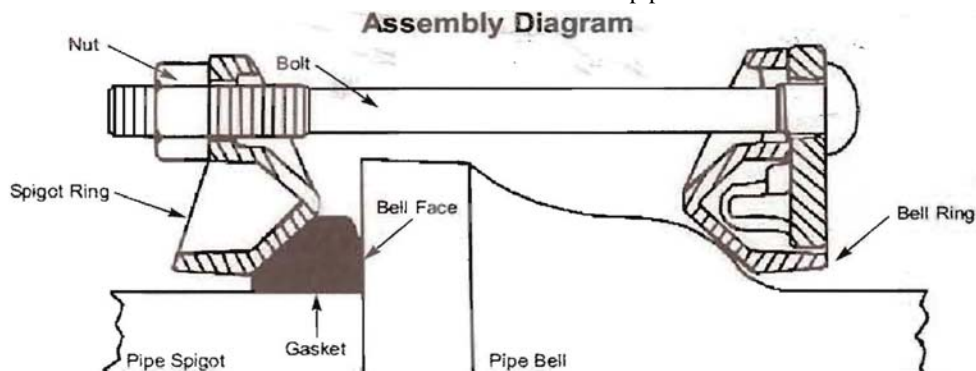


Material Specifications:

- Bell Spigot Ring:** Ductile Iron per ASTM 536 or carbon Steel to ASTM A36
- Gasket:** Nitrile (Buna N) NSAF 61 listed Compoundec to resist oil, natural gas, acids, alkalies, most (Aliphatic) hydrocarbon fluids, water and many chemical. (please contact AWIS Engineers for application involving chemicals) Temp -20°F to +180°F
- Bolts and Nuts:** High Strength low Alloy steel with heavy, semi finished hexagonal nuts to ASTM A-307-ANSIA21.11 SS also available
- Finish:** Fusion bonded Flexi-Coat™ Epoxy coating

Advantages

- Reduced inventory**
A single clamp fits virtually all classes and brands of cast iron, ductile iron Ac and PVC pipe
- Easy Installation**
Fewer interlocking parts make installation quick and easy
- Kee-Loc® Gasket**
Eliminates field cutting and the use of staples, tongs or tape to hold the gasket in position
- Corrosion Resistant materials**
Heavy cast ductile iron bell-spigot rings and high strength low alloy steel bolts and nuts. SS available (Heavy carbon steel bell-spigot on 375 sizes)
- No Loss of service**
Can be installed without interrupting the flow in the pipeline



When the Bell Joint Leak Clamp is assembled on the pipe bell, the bell ring and spigot ring are connected by bolts and the gasket is captured in a gasket cavity formed by the spigot ring, pipe spigot, the pipe bell face, bell ring and the joint packing material.

Tightening the bolts draws the two bell and spigot rings toward each other, compressing the rubber gasket against the pipe spigot face of the

pipe bell and joint packing material to form a tight seal.

The carefully engineered hardness and bulk, plus the unique shape of the rubber gasket surfaces that seal against the pipe spigot and joint packing material are flat surfaces providing full contact.

The gasket extends well up onto the face of the bell and angles slightly away from the bell. The back of the gasket has an angle of approximately

45-degrees that mates with a corresponding angle on the face of the spigot ring. As tightening occurs and the spigot ring moves forward, the angular surface on the spigot ring forces the gasket directly against the pipe spigot and joint packing material. After maximum compression against the joint packing material has been reached, the gasket flows forward against the bell face to assure a tight seal.

"Kee-Loc" Gasket

Smith-Blair's Kee-Loc gasket eliminates the difficult and often inaccurate task of cutting the gasket in the field. With the Kee-Loc Gasket, there is no need for staples, tongs, tape or other clumsy gadgets normally used to join gasket ends and hold them in position while assembling the clamp.

To install the gasket, place it on the pipe and snap its ends together.

The gasket is supplied with an extension piece. This piece is left in place for use on larger O.D. pipe and removed for use on smaller O.D. pipe.

Bell Joint Clamps in 14", 30" and 36" diameters are available with bias cut gaskets only.

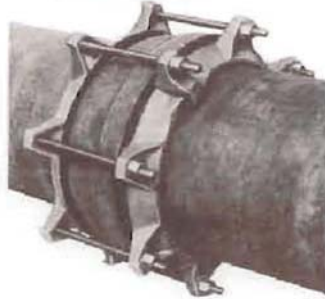


**274 Bell Joint Leak Clamp
Sizes 2"-12"**



Smith-Blair Bell Joint Leak Clamps in sizes 2" through 12" have split interlocking bell-spigot rings. Each clamp has two bell-spigot rings made up of identical, interchangeable castings. Either ring may be used as a spigot ring to compress the gasket, and either ring may be used as a bell ring behind the bell as an anchor to tighten against. For use with either caulked or rubber gasket stab type cast iron and C900 (DR 18) bell and spigot joints.

**274 Bell Joint Leak Clamp
Sizes 16"-36"**



16" through 36" Smith-Blair® Bell Joint Leak Clamps have segmented bell-spigot rings. Each clamp has two or more bell-spigot rings made up of identical, interchangeable castings. Either ring may be used as a spigot ring to compress the gasket, and either ring may be used as a bell ring behind the bell as an anchor to tighten against. For use with either caulked or rubber ring stab type cast iron, and C905 bell and spigot joints.

