Installation Instructions
Asbestos Cement Pipe Restrainers
Model 630 Fitting Restrainer
Model 631 Joint Restrainer Installation Instructions

Read instructions before starting installation*
Review of "Tricks of the Trade" on the reverse will assist with installation.
For purposes other than water, contact JCM Industries for application and product assistance.
NOTE: Maximum rating 150PSI working pressure.
For higher pressure ratings, contact JCM Industries Engineered and Technical Sales.

1. Clean and scrape pipe. Remove any scale, pipe wrap, debris, or dirt that may interfere with the complete sealing on the pipe. Clean pipe for a distance of 2 feet from the center of the joint. Inspect pipe for integrity, size, outside diameter, and surface irregularities. Confirm the proper size and range of the restrainer. Inspect fitting to ensure all parts are included. For fittings furnished with stainless steel hardware, see reverse for fastener management.

2. **For 630 Fitting Restrainer, Assemble Mechanical Joint Fitting on the pipe.** Position the top half of the restrainer on the pipe at the appropriate distance from the fitting/coupling to engage the restraining bolts/all-thread rods. Make certain the hollow side of the restrainer's ears face toward the fitting/coupling. Align the restrainer ears (or anchor loops) with fitting bolt pattern.

3. Position the bottom half of the restrainer and install clamping bolts.

4. Tighten clamping bolts evenly. Alternate from one side of the restrainer to the other. Tighten bolts to the following torque levels:

4" Nominal Pipe Size	75 ft. lbs. of torque
6" - 16" Nominal Pipe Sizes	100 ft. lbs. of torque
20" - 24" Nominal Pipe Sizes	125 ft. lbs. of torque

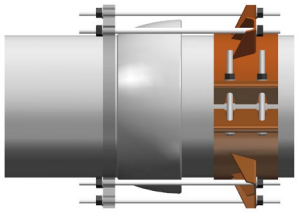
Field Installation Note: The torque values listed are the manufacturer's suggested levels. Field technicians must assess the pipe's condition and integrity to determine if the pipe will accommodate these torque levels. Should the assessment find pipe fragile, brittle, or weakened, adjust torque levels accordingly.

5. **For the 631 Joint Restrainer**, assemble the other half of the restrainer unit on the opposite side of the coupling with the same procedures 1 - 4.

6. Insert restrainer bolts/all-thread rod to fitting/over coupling. Place a washer and nut on end(s) of each bolt or rod and hand tighten. Then tighten each nut one full turn.

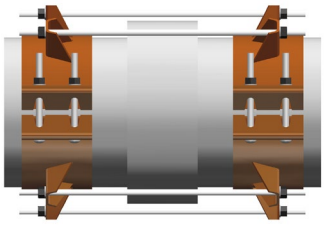
7. If applicable, install a second nut on restrainer bolts or rods to lock the nut in place.

JCM 630 Fitting Restrainer



JCM 631 Joint Restrainer

Restrains
A/C Couplings
Bolted Couplings
Adapters



*Ensure fitting is suitable for application (confirm size, materials, pressure ratings, line content, meets local governing & association standards, etc.). Pipeline operation forces, including pressure fluctuations, thermal expansion/contraction, movement/shifting, etc. will influence the success of the application. Proper anchorage, restraint, harnessing, thrust blocks or other devices must be provided to prevent pipe movement (lateral, angular, axial) or pipe pullout from the bolt-on fitting. Inspection of the pipe integrity is the responsibility of the end user. JCM recommends the use of calibrated torque wrench. Failure to follow installation instructions will result in voided product warranty.

INT630631-032022

For application review or questions contact JCM Industries at 1-800-527-8482, 903-832-2581

Stainless Steel Hardware
Asbestos Cement Pipe Restrainers
Model 630 Fitting Restrainer
Model 631 Joint Restrainer Installation Instructions

JCM Quality Fitting Equipped With 18-8 Stainless Steel Bolts and Nuts

When not properly handled, it is the nature of stainless steel fasteners to gall and freeze (seize up). This is due to the inherent properties of the stainless material. Galling and freezing are often triggered by the presence of metal chips, burrs, and grains of sand on the threads of the bolts and nuts. JCM has taken extra care prior to assembly and packing this fitting to assure a trouble-free installation.

1. Standard 5/8” and 3/4” nuts are coated with a unique blue or green (antiseize) coating. Additional lubricant may be needed. Uncoated stainless steel hardware is provided without lubrication to prevent a build-up of dirt, sand, or grit during shipment. A Molybdenum-Base lubricant is recommended.
2. Each nut is assembled by hand to ensure that it went on the bolt freely.
3. The bolts and nuts are handled carefully to avoid damaging the threads.
4. The bolts and nuts are made to exacting specifications to assure that the correct material is used and the thread form is correct.

Stainless hardware is especially susceptible to galling. JCM supplies specially coated nuts to eliminate the galling caused by over-torquing, but the bolt threads must be kept clean, free from nicks, and not pitched or thrown into the tool bucket during the installation process. The use of a pneumatic wrench for installation could cause hardware to seize and is not recommended.

For additional guidance, contact JCM Industries Technical Services at 1-800-527-8482.