



# Wall Sleeve

## Installation Instructions

### Read instructions before starting installation\*

For purposes other than water, contact JCM Industries for application and product assistance.

Review of Stainless Steel Fastener Management on the reverse will assist with installation.

Scanning of wall for location of rebar is recommended.

1. Thoroughly clean wall surface and inspect for integrity for application. Confirm the size of the wall sleeve to verify correct size product. End user/installer is responsible for concrete integrity, anchorage and proper installation.
2. Check surface of wall where gasket will seat to make certain the wall is free of flaws, gouges, or extreme irregularities. Sealing surface area may require refinishing to remove debris, fill aggregate spaces and then be smoothed/flattened to achieve proper gasket sealing surface.
3. Lubricate wall and face of sleeve gasket with soapy water or water base lubricant. Do Not Use Grease or Oil Based Pipe Lubricant.
4. Position wall sleeve on the wall, making sure outlet is aligned with branch line to be connected. Mark where holes should be drilled.
5. Predrill holes for anchoring into concrete. Anchor bolts should be 1/8" smaller than holes in the wall sleeve.
6. Install anchor bolts and position wall sleeve accordingly.
7. Tighten bolts evenly, alternating from one side of the sleeve to the other. Tighten bolts to minimum 50 ft. lbs. of torque, allow approximately 1/8" gap between wall surface and wall sleeve plate.
8. Note: For test and working pressures above 50PSI, contact JCM for proper application.
9. Check inside the sleeve neck to make certain gasket is properly seated and not protruding into the waterway where the tapping cutter may damage it.
10. Install the tapping valve. JCM recommends adherence to the AWWA M44 Manual for proper valve installation, support and trenching (if applicable).
11. Test assembly seals using test plug provided on sleeve or test connection on tapping machine. Note: No more than 10% above line pressure or maximum pipe working pressure rating.
12. When assured all seals are tight and test is completed, after 15 minutes, re-check bolt torques and proceed with tapping operation.

Available Industry Resources: [Hilti.com](http://Hilti.com)

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.



Certified to  
NSF/ANSI/CAN 61  
& NSF/ANSI 372

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

INTWall-0825



## Stainless Steel Fastener Management

### Wall Sleeve Installation

#### JCM Quality Fittings 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 is often triggered by the presence of metal chips, burrs and grains of sand on the threads of the bolts and nuts. Extra care has been taken by JCM prior to assembly and packing of this fitting to assure a trouble-free installation.

1. The nuts and bolts are made from material of different hardness so that they have different strengths.
2. Nuts are coated with a special anti-seize coating. Additional lubricant may be needed.  
**A Molybdenum-Base lubricant is recommended.**
3. Each nut is assembled by hand to be sure that it went on the bolt freely.
4. The bolts and nuts are handled carefully to avoid damage to the threads.
5. The bolts and nuts are made to exacting specifications to assure that the correct material is used and that 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.** Use of a calibrated Torque Wrench with Deep Socket is highly recommended. Use of pneumatic wrench for installation could cause hardware to seize and is not recommended.

