

CLARK SOLUTIONS

Installation Bulletin & Product Guarantee

Series CLXC Single Jet Meters & MJ-SDC Multi jet Meters

INSTALLATION

DO NOT EXCEED PRESSURE RATING OF 150 PSI- install a pressure regulator and adjust to a safe pressure less than 150 psi if there is any chance of exceeding this design pressure.

New Service Lines: New service lines should be flushed prior to installing water meters. A spool piece matching the length of the meter or an old meter with measuring element removed should be installed in place of the installed meter so the lines can be flushed.

Electrical Grounded Pipe Systems: "AWWA opposes the systematic interchange of stray electric current between electrical distribution systems and water distribution systems, as well as the use of the water pipe system as an essential part of any electrical system. AWWA does not object, however, to the connection of all interior piping of a building to the electrical service neutral and to a separate grounding electrode, provided that such interior pipe systems and grounding connections are electrically insulated from the water utility's pipe system."

Section 260-81 (A) of the National Electric Code (NEC) requires that "continuity of the grounding path or bonding connection to interior piping shall not rely on water meters." All meters should be permanently ground strapped to prevent accidents to serviceworkers changing meters.

Piping: It is recommended that meters be mounted in a horizontal position, protected from freezing, damage and tampering. The line opening in which the meter is to be set should match the lay length of the meter, allowing slight additional space for coupling gaskets. The service line configuration should have at least 5 pipe diameters of straight piping upstream and 3 or more pipe diameters of straight piping downstream of the meter, which is necessary for proper flow conditioning. The meter should not be used to straighten misaligned pipes because of the potential for damage to the meter. It is recommended that an upstream and downstream shut-off valve of high quality and low pressure drop be installed to allow for removal of meter. A drain cock installed between the meter and down stream valve is also suggested.

Meter Installation: To prevent cross threading at installation, set the meter between the coupling nuts with the direction of flow through the meter corresponding to the direction of flow in the system. Engage the coupling nuts to the threaded meter ends. Check to ensure that the nuts are properly aligned to avoid cross-threading damage to the threaded meter ends. Hand tighten until tight then apply an additional 1/4 to 1/2 turn using an open-end wrench with a short handle. On plastic-thread systems, pipe wrenches should not be used on the meter body itself.

Two gaskets are provided for sealing of the coupling to the meter. No pipe dope or sealants should be used on the meter end of the connection. Gaskets should be replaced with new gaskets if meter is removed and reinstalled in pipe to avoid leakage.

Put Meter in Service: After the line has been thoroughly flushed, open the shut-off valve slowly to pres-

Above installation instructions adapted from ANSI/AWWA Standards C708-05, Cold-Water Meters-Multijet Type, and C712-02, Cold Water Meters-Singlejet Type, by permission. Copyright © 2005 and 2002, American Water Works Association.

GUARANTEE FOR CLARK SOLUTIONS WATER METERS

Materials and Workmanship: If used and installed as described above Clark guarantees CLXC series water meters to be free from defects in materials and workmanship for a period of 12 months after installation or 18 months after shipment from Clark Solutions, whichever comes first.

Claims: Any meter covered by this guarantee that fails to meet the terms of the stated guarantee will be repaired or replaced, at the option of Clark Solutions, without additional charge to the customer. The customer is responsible for removing the meter from service, returning it to Clark Solutions and for freight cost to and from Clark Solutions. Customer is also responsible for reinstalling repaired or replaced product.

Limits of Liability: This guarantee does not apply to meters damaged by aggressive water conditions, foreign matter in water, vandalism, negligence, installation not in accordance with Clark installation instructions, mis-application or other use not as described above, acts of God or other conditions beyond the control of Clark Solutions.

The foregoing express guarantee is in lieu of all other guarantees or warranties whatsoever, whether express, implied or statutory (except for warranty of title), including but not limited to implied warranties of merchantability and fitness for a particular purpose.

Customers exclusive remedy and Clark Solutions' sole liability on any claim, whether in tort (including strict liability), negligence, contract, warranty or otherwise, for any meter which fails to meet the terms of the guarantee stated above, shall be limited to repair or replacement as described above. In no event shall Clark Solutions or its business partners be liable for incidental or consequential damages of any kind, including but not limited to loss of profits or revenue, loss of use, cost of capital, cost of substitute equipment, facilities or services, downtime costs, delays and claims of customers of the customer or other third parties.