

# Sioux Chief Manufacturing Technical Report #1097 Water Hammer Arresters

Subject: Sioux Chief Water Hammer Arresters – *No Access Panels Required*

The American Society of Sanitary Engineering (ASSE) defines their standard 1010 as: “Engineered Water Hammer Arrester having a cushion of air or gas permanently sealed in the unit, and designed to provide continuous protection, without maintenance, against excessive surge pressure.” More simply stated, an arrester that bears the ASSE seal must be totally maintenance free. *This automatically excludes air chambers or any field rechargeable shock arrester.* The ASSE tests are based on those of the Plumbing and Drainage Institute (PDI) and conducted on PDI testing equipment.

The Sioux Chief Hydra-Rester & Mini-Rester water hammer arresters have been tested and are found to be in compliance with the **ANSI/ASSE-1010-1996 Revision.**



On the average, a plumbing contractor will spend approximately thirty minutes on an access panel. Obviously, if access panels are not otherwise specified, most contractors will require an arrester approved by ASSE. Eliminating access panels saves the plumbing contractor time and cuts product and labor costs.

The Hydra-Rester & Mini-Rester are designed with cold-formed, spin closed ends and have no welded seams for two basic reasons: (1) An air charge cannot be depleted through a seam which does not exist and, (2) Labor costs are kept down with a much more efficient and cost effective manufacturing process. Many manufacturers still employ the welding or soldering process which is time consuming. These manufacturing costs are reflected in higher product prices to the plumbing contractor.



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