



**FOR IMMEDIATE RELEASE**

**Contact:** Christopher White  
[chris.white@asse-plumbing.org](mailto:chris.white@asse-plumbing.org)

**ASSE International and Water Systems Council Publish Co-Developed  
Performance Requirements for Pitless Adapters, Pitless Units, and Well Caps**

**Mokena, Ill. (March 16, 2020)** — ASSE 1093-2019 / WSC PAS-97(2019), *Performance Requirements for Pitless Adapters, Pitless Units, and Well Caps*, has been designated as an American National Standard by the American National Standards Institute (ANSI) and is now available for purchase.

ASSE 1093-2019 / WSC PAS-97 covers three interrelated devices for creating connections to wells and aquifers: pitless units, pitless adapters, and well caps. The purpose of these devices is to allow for the flow and environmental protection of underground water into a premises' cold-water supply. This standard was originally developed by the Water Systems Council (WSC) and was co-developed with ASSE International (ASSE) for the 2019 revision.

Pitless adapters and pitless units are designed to attach to openings in water well casings. When properly installed, they provide sanitary connections by preventing the entrance of contaminants or pollutants from surface or near-surface sources and permit the termination of the well above the ground surface. These devices also protect water from temperature extremes and permit access to the well, and to water systems parts within the well, without the exterior excavation or disruption of the earth.

WSC's Recommended Standards and Installation Procedures for Sanitary Water Well Pitless Adapters and Units (PAS-1) has been in effect since 1966. A companion standard, Standard for Watertight Well Caps (PAS-2), covering the inspection and approval of vermin-proof vented sanitary well caps, was adopted in 1988. In 1997, years of field experience and manufacturing using the PAS-1 and PAS-2 led to the combined PAS-97 standard. This co-developed 2019 revision was set up within the framework of the Product Standards Committee of ASSE International.

"The WSC and I are pleased to have worked together with ASSE to bring this standard into an ANSI-accredited consensus process," said John Surinak, President of Maass Midwest Mfg., Inc. and ASSE 1093 / PAS-97 Working Group Chairperson. "This most recent revision to WSC PAS-97 clarified pitless adapter and pitless unit definitions, revised the pitless adapter and pitless unit testing, and revised the sanitary well cap watertight capability testing. Separate tests for surface water contamination and internal pressure for pitless adapters, and similar tests for pitless units were also developed."

Performance requirements in ASSE 1093-2019 / WSC PAS-97(2019) include compliance testing for water contamination and internal pressure of pitless adapters and pitless units, and tamper resistance, water resistance, vermin and contaminant/pollutant resistance, and venting of sanitary well caps, among other detailed requirements.

To purchase ASSE 1093-2019 / WSC PAS-97(2019), please visit the ASSE International Webstore at [www.asswebstore.com](http://www.asswebstore.com). For questions regarding the standard, contact Manager of Product Certification and Standards Christopher White at [chris.white@asse-plumbing.org](mailto:chris.white@asse-plumbing.org) or Water Systems Council Member Services Director Erin Coffman at [ecoffman@watersystemscouncil.org](mailto:ecoffman@watersystemscouncil.org).

# # #

*ASSE International is an ANSI-accredited standards developer and product certification body composed of members representing all disciplines of the plumbing and mechanical industries. ASSE's product performance standards, professional qualifications standards, professional certification and product listing programs aim to improve the performance and safety of plumbing and mechanical systems. Learn more about ASSE International at <http://www.asse-plumbing.org/>.*