

PRESSED STEEL TANK CO., INC.



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Hydrostatic Retest Procedures for DOT-E9791 Cylinders

Light weight steel SCUBA cylinders manufactured by PST and distributed as either Sherwood Genesis or U.S. Divers HP 3.5 cylinders must be reinspected and retested by a hydrostatic expansion method at least every five years. The retest facility must hold a current retester's identification number and the test must be carried out in accordance with the Code of Federal Regulations 49 CFR 173.34 (e). The retester must also have a current copy of the DOT Exemption E9791. Cylinder retests performed in Canada must be in accordance with Transport Canada regulations.

The unique PST lightweight steel SCUBA cylinder requires two special provisions during retest.

1. A special test adaptor is needed to connect with the cylinder's MS16142(SH) port. HydroTest Products Part No. 100-58 with o-ring is one suitable adaptor. **ADAPTORS DESIGNED FOR 4,500 PSI FIREMAN'S CYLINDERS ARE NOT SUITABLE FOR THE PST LIGHTWEIGHT STEEL SCUBA CYLINDER.**

2. **The test pressure for DOT-E9791 cylinders is 5,250 psi**, not 5,833 psi as would be correct for a DOT-3AA3500 cylinder. The DOT-E9791 exemption specifies a test pressure of 3/2 times service pressure, not 5/3 as is traditional DOT practice. The test pressure is stamped on each cylinder as "TP5250".

It has been our experience that the hydrostatic test can be more reliable if the system is pressurized to between 80% and 90% of test pressure to check for leaks just prior to testing each cylinder. This practice is allowed under CFR 173.34(e)(3) and is recommended by PST.

These practices should assure an accurate test for the PST lightweight steel SCUBA cylinder. If you experience difficulties in obtaining acceptable readings please call our customer service at (414)476-0500.