CARBER Nozzle Testing is an innovative hydrotesting procedure for testing new nozzles on any vessel.

Our technicians can hydrotest your new nozzle connection without filling the entire vessel and without the need to weld a cap to the inside shell. Some vessels simply cannot withstand the complications and weight involved with filling to capacity and pressurization to perform a traditional hydrotest.

CARBER has a more efficient way to hydrotest nozzles with less test medium and at a fraction of the time.

The patented CARBER Nozzle Test tool is engineered for each vessel and meets the requirements for ASME Section VIII Division 1.

Reference Specifications:

Test Pressures:

1 in. to 4 in. - up to 1000 psi (25.4mm to 101.6mm - up to 68.95 bar)

6 in. and larger - up to 500 psi (152.4mm and larger - up to 34.47 bar)

Required from Customer:

• Vessel Diameter
• Nozzle Length & Diameter
• Vessel Entry Procedures
• Flange Rating
• Test Pressure
• Size of Vessel Entry Port
The CARBER Multi-bolt Nozzle Test Tool allows for larger nozzles to be tested without filling the vessel. The multi-bolt design ensures the larger diameter seal is created against the vessel wall to allow pressurization.

The CARBER Single-bolt Nozzle Test Tool is perfect for testing small nozzle connections. A seal is created on the inside vessel wall to allow the new nozzle to be filled with test medium and brought to pressure.

**Advantages of CARBER Nozzle Testing:**

- Significantly reduces downtime required to test nozzle connections by only testing the new nozzle.
- The entire vessel is not subject to undue pressure during hydrotesting.
- Small quantity of medium required provides a safe environment in which to conduct test.
- Lightweight tools reduce the need for heavy lifting equipment to put the testing equipment in place.
- Eliminates the need to fill the entire vessel.

CARBER also has a patented split-cap design nozzle test tool to accommodate man-ways. Testing man-ways requires that the test tool is larger than the actual opening to form a proper seal. Our split-cap tool is perfect for testing man-ways because it can be disassembled to allow entry into the vessel.

When testing the only man-way of a vessel, access to enter or exit during the hydrotest is required. CARBER has the technology to perform these tests. The patented Open Top Hat Nozzle Test Tool allows larger nozzles or man-ways to be tested much more efficiently while allowing access to the vessel.
Cold Cutting & Beveling
CARBER Isolation
CARBER Weld Testing
CARBER Plain-End Testing

Conventional Hydrotesting
Controlled Bolting
Leak Repair
Hot Taps & Line Stops

Composite Wraps
Cryogenic Services
Certified Lokring Installation
Field Machining

Corporate Headquarters:
12600 N. Featherwood Dr., Suite 450
Houston, TX 77034
800-592-8378
www.carber.com