

HPHT JET IMPINGEMENT SYSTEMS

HPHT JET IMPINGEMENT SYSTEMS

OVERVIEW

Cortest Jet Impingement systems are used to test the effectiveness of corrosion inhibitors as well as to study flow effects on the corrosion of materials. The main components of this system are a large autoclave for solution preparation, a smaller impingement test cell with impingement probe, a positive displacement pump, and a Coriolis flow meter to measure flow rates. Other components such as a liquid delivery system and a mag-drive stirrer can be added as well. The entire system is controlled from a touch screen interface that can be mounted on the stand itself or nearby. The system can be configured to allow the larger autoclave to be used independent of the jet impingement portion of the test system.

CATEGORIES : OIL & GAS | STEEL | RESEARCH

PRESSURES UP TO

20.68 MPa
(3,000 PSI)

TEMPERATURES UP TO

204°C
(400°F)

WALL STRESSES LESS
THAN OR EQUAL TO

1000 Pa

HPHT JET IMPINGEMENT SYSTEMS SYSTEM FEATURES

- Materials of Construction: 316 S.S. and/or Hastelloy C-276
- Temperature and Pressure Limits
Impingement Test Cell: 204°C (400°F); Up to 20.68 MPa (3,000 PSI)
Autoclave: 300°C (572°F); Up to 35 MPa (5,076 PSI)
Coriolis Flow Meter: 204°C (400°F); Up to 27.58 MPa (4,000 PSI))
- Once Through or Recirculating Loop Options Available
- Flow Rates Up to 2.3 L/min. Through 1 mm (0.040") Diameter Orifice
- Wall Stresses \geq 1000 Pa
- Available Upgrades
Liquid Delivery System
Automated Air-Actuated Valves
Raising and Lowering Autoclave Body
Stirring Conversion Kit for Autoclave

CONTROLS

- Cortest Proprietary System Control
- Touch Screen PLC Based Control
- Over Temperature and Variable Pressure Safety Alarms
- Default Data Acquisition System Records the Following Data:
Variable Speed Flow Control
Temperature and Pressure Control
Test Duration

TYPICAL APPLICATIONS

- Jet Impingement Testing
- Corrosion Inhibitor Testing
- Electrochemical Studies