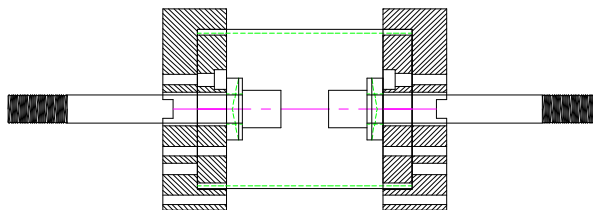


## TRANSVERSE TENSILE FIXTURE



|           |          |           |
|-----------|----------|-----------|
| Specimen: | Diameter | 4" OD     |
|           | Wall     | 0.060"    |
|           | Length   | 5.5" Long |

|          |              |  |
|----------|--------------|--|
| Fixture: | Construction | Stainless steel                            |
|          | Temperature  | -240 to 600°F (-152 to 318°C)              |
|          | Mounting     | 3/4"-10 threaded studs                     |
|          | Capacity     | 10,000 lbs                                 |
|          | Weight       | 45 lbs approximately                       |
|          | Dimensions   | Assembled - 5.5" x 4" x 12"                |
|          | Standard     | Manufactured in accordance with ASTM D5450 |

### Model No. ASTM.D5450.10 - Transverse Tensile Test Fixture

This pipe end clamp type grips accommodate thin walled hoop wound cylindrical pipe specimens of 4" (100mm) inner diameter and 5.5" (140mm) long. Fixture includes (2) assemblies. Each assembly includes (1) outer shell with a groove, guide pin, (1) insert, (2) spherical washers, (1) load rod and all hardware necessary for assembly. Constructed of stainless steel in accordance with ASTM D5450. Fixture is for 4.0" OD with 0.06" wall only. Other diameters will require different inserts. The load rod is supplied with 3/4" -10 threaded stud ends.

# **MODEL NO. ASTM.D5450.10**

## **ASTM, TENSILE, TENSION HOOP, WOUND,**

### **ACCESSORIES**

**Upper and lower fixture attachment is supplied with 3/4" -16 female coupling (Common adapter sizes include):**

Model No. M01S30 - 1/2" Male Clevis (Type B) to 3/4" -16 Threaded Stud  
Model No. M02S30 - 5/8" Male Clevis (Type C) to 3/4" -16 Threaded Stud  
Model No. M03S30 - 1.25" Male Clevis (Type D) to 3/4" -16 Threaded Stud  
Model No. M12S30 - 12mm Male Clevis to 3/4" -16 Threaded Stud  
Model No. S36S30 - 1" -14 to 3/4" -16 Threaded Step Stud  
Model No. LN30 - 3/4" -16 Threaded Locking Nut with Knurled OD

### **SPARE PARTS**

Contact us for spare or replacement parts

### **REFERENCE DOCUMENT AND TEST METHOD SCOPE:**

<http://www.astm.org/Standards/D5450.htm>

ASTM D5450/D5450M-12

Standard Test Method for Transverse Tensile Properties of Hoop Wound Polymer Matrix Composite Cylinders

1.1 This test method determines the transverse tensile properties of wound polymer matrix composites reinforced by high-modulus continuous fibers. It describes testing of hoop wound (90°) cylinders in axial tension for determination of transverse tensile properties. 1.2 The technical content of this standard has been stable since 1993 without significant objection from its stakeholders. As there is limited technical support for the maintenance of this standard, changes since that date have been limited to items required to retain consistency with other ASTM D30 Committee standards, including editorial changes and incorporation of updated guidance on specimen preconditioning and environmental testing. The standard, therefore, should not be considered to include any significant changes in approach and practice since 1993. Future maintenance of the standard will only be in response to specific requests and performed only as technical support allows. 1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system are not exact equivalents; therefore, each system must be used independently of the other. Combining values from the two systems may result in nonconformance with the standard. 1.3.1 Within the text, the inch-pound units are shown in brackets. 1.4 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

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