THIS IS A RESPONSE EXAMPLE ONLY - DO NOT USE DATA FOR ANY OTHER PURPOSE

Date: 4/27/2017
Customer Name: Dave Myers
Company/Org. Name: Pyromation, Inc.
E-mail Address: dmyers@pyromation.com
Tag Number: TW-100

**OUTPUTS**

**Frequency Condition**
- **Frequency Ratio**: 0.071

**Steady State Stress Limit**
- **PASS**

**Dynamic Stress Limit**
- **PASS**

**Pressure Limit**
- **PASS**

**INPUTS**

**Mounting Type:** Threaded
**Material type:** 316SS

**Dimensions:**
- **Length**: 6.000 in
- **Root diameter**: 1.063 in
- **Tip diameter**: 0.625 in
- **Bore diameter**: 0.260 in
- **Tip thickness**: 0.188 in
- **Fillet radius at base**: 0.125 in
- **Damping Factor**: 0.0005
- **Shielded length**: 0.000 in
- **Sensor density**: 2700 kg/m³

**Fluid Properties:**
- **Fluid velocity**: 15.50 ft/s
- **Fluid density**: 3.19 lb/ft³
- **Fluid temperature**: 450.0 °F
- **Gauge pressure**: 150.0 psig

**T-Well Material Properties**
- **Allowable stress**: 18650 psi
- **Fatigue limit**: 5400 psi
- **Modulus at temperature**: 25900000 lbf/in²
- **Density of t-well material**: 0.290 lb/ft³

**Summary/ Suggestions:**

*Pyromation makes no claims regarding performance or safety based on the calculations provided. The results communicated are based on the ASME PTC 19.3 TW-2016 design standard for reliable service of tapered, straight and stepped-shank thermowells in a broad range of applications. The user assumes full responsibility for installation, application and operation of the product.*