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### TENSION INDICATING WASHERS



AlphaUSA  
Extreme Duty Direct  
Tension Indicating Washer



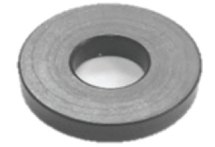
AlphaUSA  
Direct Tension Indicating DTI  
and Nut Assembly

### FLUID SEAL



AlphaUSA  
Brake Line Sealing  
Washer Products

### SELF RETAINING



AlphaUSA  
Self-Retaining  
Spacer & Washer Products

Materials - manufactured using high carbon steel	✓	✓		✓
Materials - manufactured using low carbon steel				✓
Materials - manufactured using ultra-high purity copper			✓	✓
Materials - aluminum part manufacturing				✓
Performance - compression validated and certification	✓	✓	✓	
Performance - joint clamp load specific and certification	✓	✓		✓
Performance - resistant to extreme vibration	✓	✓	✓	✓
Performance - resistant to extreme thermal cycling	✓	✓	✓	✓
Performance - resistant to joint relaxation	✓	✓	✓	✓
Performance - self retention feature is optional				✓
Process - thermal protection film application and localized coatings	✓	✓	✓	✓
Processes - post forming stress relief and/or heat-treatment	✓	✓	✓	✓
Process - rust inhibiting coatings and finishes to customer specifications	✓	✓		✓