



## Standard DTI and Squirter® DTI's (Direct Tension Indicator washer)

**Quenched and tempered DTI's**  
**Self-Marking**  
**Weatherproof**  
**Made in USA**

DTI's tested to ASTM F959.  
Orange Silicone squirts from washer when  
at correct tension.



### **Bolting Completed in three easy steps**

1. Snug - Steel is in firm contact.
2. Squirt - Drive it till it squirts! No torque calibration or matchmaking required!
3. Inspect - Visual indication of bolt tension, easy, safe and fast.





# FORTRESS®

## FASTENERS

	8.8**	10.9**
M12*	49 kN	61 kN
M16	91 kN	114 kN
M20	142 kN	179 kN
M22	176 kN	221 kN
M24	205 kN	257 kN
M27	267 kN	334 kN
M30	326 kN	408 kN
M36	475 kN	595 kN

\*\*70% Minimum Specified Ultimate Tensile Strength

AISC 16.1 Table J3.3M

\* Metric EQ to ASTM 1/2"

• **Easier & Better than Turn-of Nut** You don't have to remember to stop turning at 1/3rd, 1/2, or 2/3rds turn. No match marking necessary.

• **Easier & Better than Calibrated Wrench** You don't have to establish and then check the torque resistance of bolts daily and for each lot and when your wrench condition changes.

• **Works with All Bolt Lengths** Even when the bolts are extremely short or long, SQUIRTER® DTIs show you when the correct tension has been achieved.

• **Saves Erector Time** Enables correct tensioning as fast as the wrench can be moved to the next bolt, because the operator can see when to stop.

• **Establishes A Good Snug Point** With SQUIRTER® DTIs, snug is partial bolt tightness without any or much silicone showing. The snug criteria becomes no squirt. The tight criteria becomes squirt.

• **Visual Low Tech Tension Indicator** The orange silicone is easy for erectors to see. No feeler gage except during calibration.

• **Safe for Inspectors** Once calibrated, because inspectors can easily see the orange squirts, they don't have to climb out to all the connections or lug around a torque wrench to know the connection has been completed. And instead of sampling only some of the DTI's with a feeler gage, Squirter® DTIs allow virtually 100% inspection.

• **Squirter® DTI's Approved** SQUIRTER® DTIs are still made and certified to ASTM F959. FHWA pre-installation verification procedures, Research Council tests, and State DOT Quality Assurance procedures are unaffected.

• **Extremely High Bolt Tension Avoided** Erectors know when to stop tightening. Some applications prefer bolts tightened over a minimum, but not too far over. SQUIRTER® DTIs enable previously unavailable control.

