

A SINGLE FAILURE ON A BOLTED JOINT CAN STOP PRODUCTION!

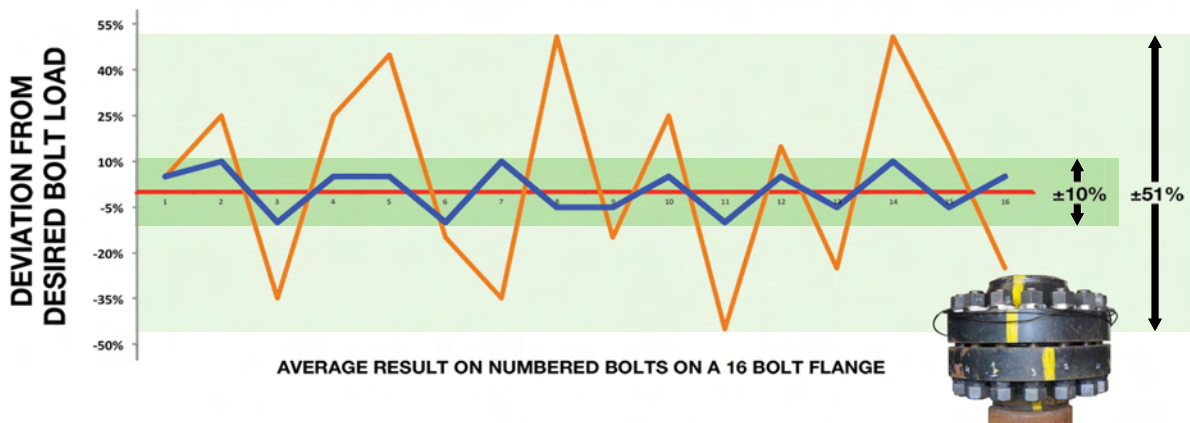
So why are some maintenance teams still relying on systems like hydraulic tensioners and induction bolt heating, which often require measurements and post-tension torquing to ensure the nuts are tight? As the leader in the bolting tool industry, HYTORC has been involved in various studies conducted by independent testing agencies that prove, over and over again, that hydraulic tensioners can not achieve the bolt load accuracy claimed by most manufacturers. In fact, it is repeatedly proven that hydraulic torque wrenches provide a more consistent bolt load. However, the most interesting results have been shown in independent studies comparing hydraulic tensioners

to the HYTORC Washer system, which allows a hydraulic torque wrench to react on a washer that is placed under the nut. This new system is installed with ASME compliant bolting practices and, in every comparison test completed, the washer maintains a bolt load variation within 10%, while the hydraulic tensioners are not able to achieve a maximum bolt load variance of less than $\pm 51\%$. That variance can result in loose nuts and joint leakage, which can prompt an unscheduled shutdown that wastes valuable production time. The HYTORC Washer is a proven system with guaranteed results.

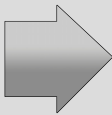


THE HYTORC WASHER -vs- HYDRAULIC TENSIONERS

Based on average results from multiple independent studies - HYTORC will reproduce these studies on demand and gladly take on any challengers.



Take The
**LEAKAGE-ZERO™
CHALLENGE**



Let us supervise an installation of HYTORC Washers on your most difficult application - If it isn't safer, faster and more accurate than your previous bolting method, the installation is FREE. And of course, Leakage-Zero means that even bolted joints that have been leaking for years will be completely leak free on start-up and through production!

Get Started with a FREE Survey!
24/7 Service: 0335 666 0316, 0317, 0314
HYTORC_Pakistan@maareftech.com
www.Leakage-Zero.com



HYTORC®
Since 1968

NRL employed the 'HYTORC WASHER' & obtained 'LEAKAGE-ZERO' results - first time in 14 years!

**SIGN A FUTURISTIC PRICE-FREEZE AGREEMENT FOR THE NEXT DECADE -
WITH A MONEY-BACK GUARANTEE!**

Trust begets trust, for on the Day of Reckoning, one will have to answer for its breach - assuredly!

GUARANTEED **LEAKAGE-ZERO** on START-UP; or **YOUR MONEY BACK!**



THE HYTORC **GUARANTY** Leak-Free Startup and Production!

A cooperation between **HYTORC** and many Chemical Plants, Refineries, Off-shore Platforms, Gas Compressor Stations, Gas Plants and Gas Transportation made HYTORC search for solutions to solve costly invisible leaks in their environment.

Here are the results:

HYTORC is First with an explosion-proof, multi-tool Bolting System certified by VERITAS EPS 12 ATEX 2 489 X, EG conformity number EN 13463-1:2009 and EN 16463-5:2011.

HYTORC is First amongst all bolting tool manufacturers to take advantage of the recommendation by ASME, DIN, ISO and EN to control the frictional variation of torque. The use of a hardened washer results in a new Safety Standard with hands-free bolting. It eliminates reaction arms, backup wrenches and side load and addresses the unknown bolt relaxation of tension as bolts are stretched to the desired load rather than beyond. The result: an unprecedented bolt load precision or joint compression of + 10%!

Yet, as we all know, it is not just the bolt load variation that causes leaks. Deformation and cleanliness of joint faces, fasteners and gaskets make a major difference. To overcome this, **HYTORC** writes procedures for each joint to be made up and inspects all hardware during the supervision of your contractor's crew.

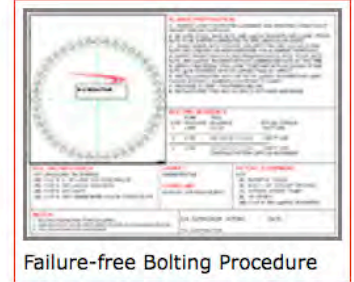
Leak-free startups and productions are finally the norm!

YOUR AVERAGE COST: \$730 per assembled flange including:

- Survey and written bolting procedures
- Hardware inspection
- The use of the latest, explosion-proof 4-tool bolting system
- Free loaner tools in case of tool failure
- required hardened washers to avoid re-facing flange face
- Job-site supervision,
- The First Money-Back, Leakage-Zero Guaranty in the World
- An on-time leak-free startup assurance and
- The introduction of the highest Bolting Safety Standard in the world including a Safety Training of your Contractor's crew!



Explosion-proof Equipment Certificate



Failure-free Bolting Procedure

EXPLOSION-PROOF LEAKAGE ZERO™ BOLTING SYSTEM

GUARANTY:

- When you run late
- When you are tired of finger pinching, oil injections
- Tired of unknowns in Torque & Tension
- Tired of reaction arms, backup wrenches & pullers
- Tired of unscheduled maintenance

That is when you need a NO PAY GUARANTY: *If the joint assembly under our supervised installation of the technology shown herein leaks on startup...*

YOU DO NOT PAY!

