

FOR THE GORILLAS

ON YOUR PRODUCTION LINE OR IN THE FIELD



Full-Torque Nut™
Simply the Toughest Nut to Crack™



500+ PERCENT IMPROVEMENT OVER THE 72-HOUR SAE STANDARD

This innovative plating process gives Gates world-class couplings extraordinary resistance to rust and corrosion. It provides more than 400 hours of red rust corrosion protection when subjected to rigorous SAE-J516 and ASTM-B-117 salt-spray conditions – a 500+ percent improvement over the 72-hour SAE standard. TuffCoat plating is also earth-safe without the toxicity of hexavalent chromium. It's the standard in corrosion resistance and environmental friendliness.



Competitor

Gates

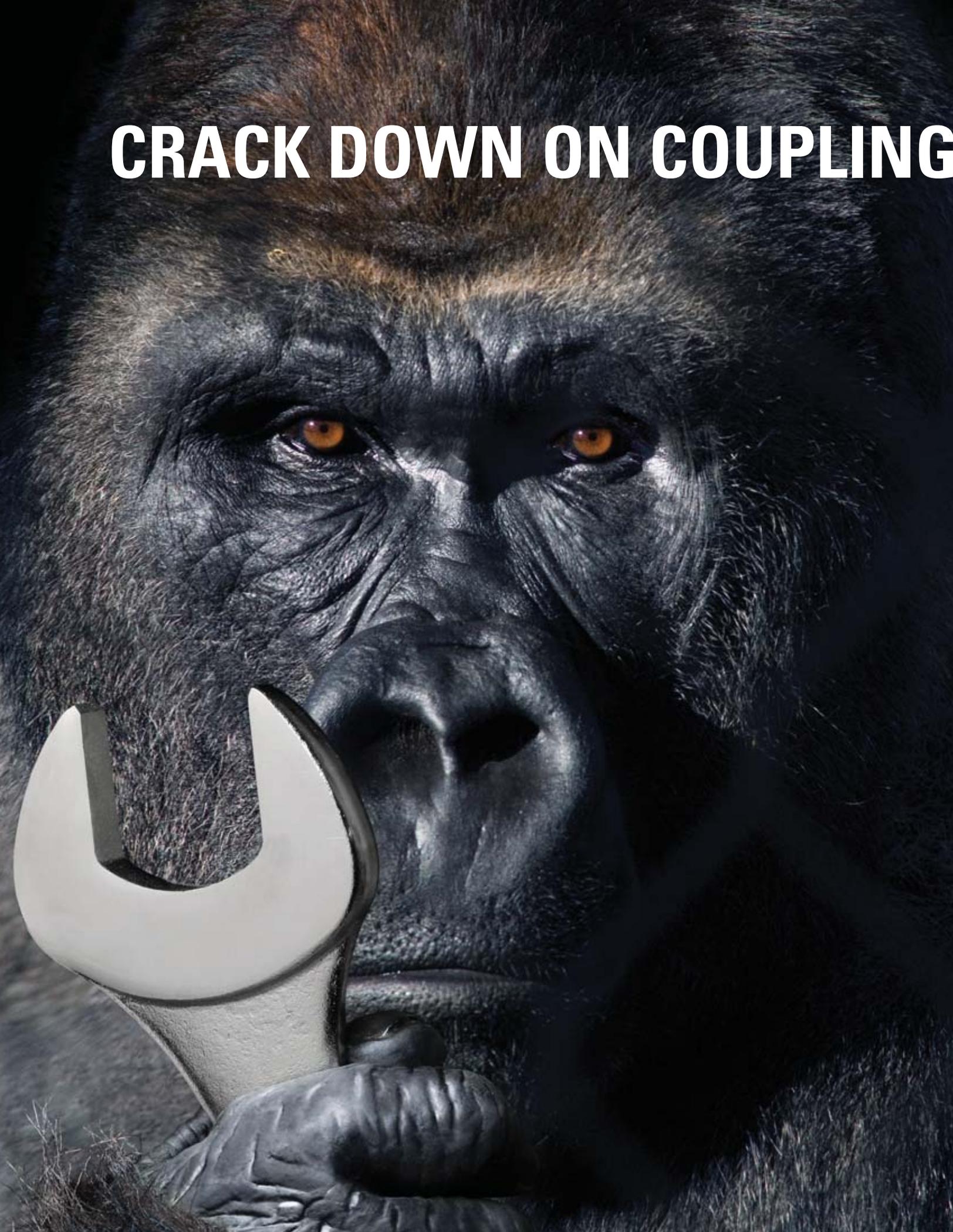
Competitor

Competitor

Competitor

Tested under SAE J516 and ASTM-B-117 salt-spray conditions, TuffCoat plating provided more than 400 hours of protection from “red rust” formation. That is over 500 percent better than the 72-hour SAE standard. Note how Gates TuffCoat plating shows no “red rust” formation. (White patches on couplings are salt residue, not corrosion.)

CRACK DOWN ON COUPLING



FAILURE

One of the most common causes of hydraulic leaks is a cracked coupling nut or seat due to over-torquing by a strong-armed worker. Gates has engineered a solution – Full-Torque Nut™ technology now available on Gates MegaCrimp® and GlobalSpiral® couplings.

Over-Torque Protection

Robust swivel joint allows for maximum torque



Up to 24,000 psi burst pressure (-16 size G6K)

Staked-nut provides less burst pressure protection



Swivel joint sensitive to over-torquing

Full-Torque Nut couplings are stronger and more durable than traditional staked-nut fittings that are prone to cracking when over-torqued.

This revolutionary, patented design is engineered with a large, smooth holding shoulder for consistent transfer of input torque to clamping force. Therefore, stress forces are evenly distributed at the nut for maximum resistance against cracking, even when inadvertently over-torqued.

Full-Torque Nut couplings allow for increased productivity and equipment uptime, on the assembly line or in the field, by eliminating damaged couplings and unsightly leaks from too much torque.

For more information about Full-Torque Nut couplings, visit www.gates.com/fulltorque



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MEGACRIMP® COUPLINGS



WITH THE PATENTED "C" INSERT THAT STARTS ROUND AND STAYS ROUND*

A Leak-Proof Seal

MegaCrimp couplings give you a leak-proof seal that surpassed one million impulse cycles during design testing. During crimping, only the outside shell of a MegaCrimp coupling takes on the shape of the dies. Inside, Gates exclusive "C" insert stays round – like the hose. There's no "polygon effect." A comparison of cross-sections with other one-piece couplings shows how crimping can distort the hose tube, which often contributes to the formation of leak paths. MegaCrimp couplings remain round.



MegaCrimp Coupling



Aeroquip



Parker



Dayco



Weatherhead

"Bites the Wire"

Once inserted, the MegaCrimp coupling stays inserted. It won't fall out during the crimping process. And the advanced design of the MegaCrimp tooth profile "bites the wire" (left below) for better coupling retention unlike the competitive crimp (right below) that relies on the compression of the rubber.



Simplified Inventory

The same size MegaCrimp coupling can be used on hoses with different constructions and wall thicknesses because the "C" insert ensures an even distribution of crimping forces to form a concentric seal. That simplifies your inventory requirements since one MegaCrimp coupling can accommodate many different hose ODs for both one- and two-wire constructions.



MegaCrimp couplings set a new standard for hydraulic couplings.

The unique "C" insert ensures concentric crimping to keep equipment leak-free and the environment clean.

For more information about MegaCrimp couplings, visit www.gates.com/fluidpower

*U.S. Patent #5267758



NO-SKIVE COUPLING FOR HIGH-PRESSURE, HIGH-IMPULSE, SPIRAL-WIRE APPLICATIONS

No-Skive Convenience

This innovative, two-piece, no-skive coupling is designed for extreme high-pressure, high-impulse hydraulic applications. It can be used with all Gates six- and four-spiral wire hydraulic hoses. The ferrule eliminates the need for skiving, thereby reducing assembly time, labor, fabrication errors and contamination of the fluid power system. With the two-piece design, it is possible to pull the ferrule away from the hose end and check that the stem is fully and securely inserted into the hose.

Superior Performance



Gates hose and couplings are pushed to the limit at the world's largest hydraulic impulse test lab, located at the Gates Customer Solutions Center in Denver, Colorado.

In performance tests, GlobalSpiral couplings surpassed one million impulse cycles at +250°F without causing stress cracks in the hose tubing. Both the stem and ferrule are machined from unleaded steel bar stock for maximum strength at working pressures up to 6,000 psi. This feature also eliminates premature failures caused by lead stringers in lead steel bar stock.

Fewer Part Numbers

Available in more than 30 thread configurations, GlobalSpiral couplings are designed to work with all Gates spiral hoses and crimpers, thus minimizing inventory requirements. The eventual replacement of existing coupling inventories with the GlobalSpiral stem and ferrules can result in one-third fewer part numbers. This estimate is based on the fact that other companies require at least two, or sometimes three, different types of couplings to handle their four- and six-spiral wire hose lines.

For more information about GlobalSpiral couplings, visit www.gates.com/fluidpower



A Tomkins Company

**The World's Most Trusted Name
in Belts, Hose and Hydraulics.**

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