

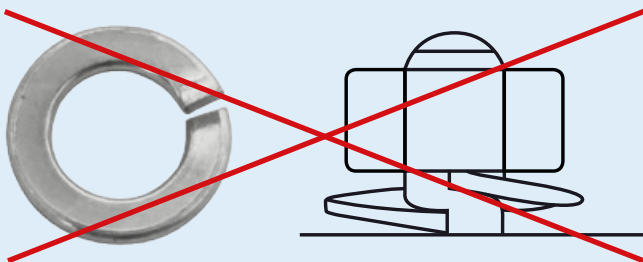
New Product	Product Update	Product Information
Technical Information	Price Update	Marketing Information
No. 2014/12	Date 06/30/2014	Page 1/1

Improved Screwed Connections Rim Lock Washers Are Replacing Split Washers in all Areas of Production

All components that are attached to stationary gas engines are exposed to high stress during operation. Therefore, all components must be well-protected against vibrations in order to ensure the flawless operation of the engine at all times. MOTORTECH is taking a new approach to locking screwed connections.

Current solution:

MOTORTECH uses split washers in various sizes to lock screwed connections in all areas of production. Split rings remain the state-of-the-art for many applications and provide a high level of protection.



Disadvantages:

When tightening, the non-deburred cutting edges and the outward-pointing burrs dig into the contact surfaces of nuts or bolt heads and the component to be clamped. This principle means that the burrs act as barbs when loosening but can also damage and weaken the surface of the part to be clamped.

Future solution:

In order to meet the increasing requirements and apply the latest technical standards, MOTORTECH is now using rim lock washers instead of split washers to lock screwed connections.



Benefits:

- Protection of the contact surfaces of components as well as nuts and bolt heads
- Optimal locking effect even for dynamic loads (vibrations)
- Locking effect even for low preload forces
- Low dispersion of the tightening torques and low friction values
- Reliable locking effect even for slotted hole attachments
- Can be used for any standard screw
- Reusable

Distribution

Customers / others	Yes	OEM partners	Yes
Representatives and sales partners	Yes	MOTORTECH subsidiaries	Yes