

# VALLEY FORGE & BOLT MANUFACTURING CO.

Manufacturer of Bolts, Nuts, and Specialty Fasteners  
Featuring  
Patented Tension / Load Indicating Fasteners



**SPC4™**

Load Indicating Fastener

**MAXBOLT™**

Load Indicating Fastener



Our Load Indicating Technology will Speed up Assembly  
and Maintenance hours into Profitable Uptime.

It Provides Accurate Installation with the Ability to  
Constantly Monitor Clampload

## APPLICATIONS



Grinding Mills



Rotating Flanges



Nuclear Development



FASTENING  
INNOVATION



Oil Rigs



Transmission Couplings



Cranes / Slew Ring

- Autoclave
- Subsea Wellheads
- Heat Exchangers
- Rotational Equipment

- Mud Pumps
- Foundations
- High Maintenance Joints
- Critical Bolting Applications

# SAFE AND ACCURATE BOLTED JOINTS!

## SPC4™ LOAD INDICATING FASTENER



The SPC4™ load indicating fasteners allows users to install a bolted assembly with accuracy and confidence. The user can constantly monitor the clamp load on the bolted joint, whether static or dynamic, by attaching a probe to the datum disc located on the head of the fastener and reading the value on a hand held battery powered digital monitor. Tightening tool control and switching boxes are available for quick and accurate assembly. Optional data gathering and storage capabilities are available.



Load Indicator

## LOAD INDICATORS ACHIEVE UNIFORM, ACCURATE & VERIFIABLE CLAMPLOAD

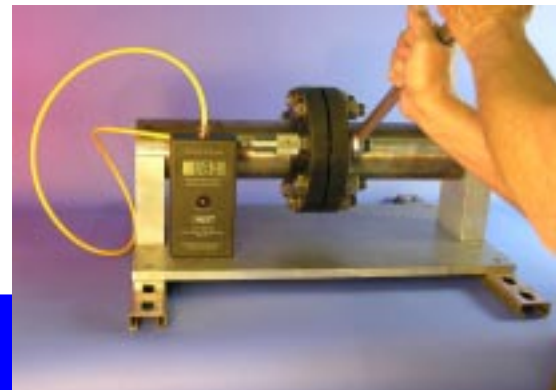


0% Clampload

Uniform loads  
made Simple!

USING A REGULAR WRENCH

80% Clampload



The MaxBolt™ and the SPC4™ load indicating fasteners have the capabilities to continuously monitor the clamping forces on any bolted assemblies. The percentage indicated on the Meter Box (SPC4™) or the Dial Indicator (Maxbolt™) is translated into lbs. of force via a load certification chart provided with each lot of fastener. Uniform tension loads can be achieved with simple wrenches.

## MAXBOLT™ LOAD INDICATING FASTENER



Maxbolt™ load indicating fasteners continuously displays the amount of tension in a bolt or stud. They offer a simple method for accurate joint assembly, and it is the only product available (for most applications) that will continuously monitor clamping force while the fastener is in service.

Maxbolt™ load indicating fasteners are manufactured by inserting extremely accurate and durable load monitoring devices into high quality bolts and studs. Now, even inexperienced workers can complete complex assemblies with full assurance that fasteners are at the proper tension. The Maxbolt™ also provide in-service monitoring which will warn users of any loosening in order to avoid premature wear, unnecessary downtime, or catastrophic failure.

# PRODUCTS & CAPABILITIES



## *Manufacturer of Special & Standard Fasteners*

- Diameter: 1/2" - 3 1/4" and 14 - 82 mm.
- Roll & Cut Threads: 1/2" - 6" and 14 - 150 mm.
- Per Customer Blue Print
- CNC Turning & Milling Capabilities
- Roll & Cut Thread
- Manufactured to National & International Standards
- **Load Indicating Fastening Systems**



Our goal at Valley Forge & Bolt Manufacturing Co. is to provide our customers with the highest quality state-of-the-art fasteners and services in a timely and efficient manner. Therefore, our innovative ideas are directed to continuous improvement and simplification of the installation of fasteners for our customers. We are constantly developing new technology to help our customers find solutions to optimize the integrity of the bolted joint.



## Valley Forge & Bolt Manufacturing Co.

1825 S. 27th Avenue Phoenix, AZ 85009

Phone: (602) 269-5748 Fax: (602) 269-7851

Website: [www.vfbolts.com](http://www.vfbolts.com) Email: [sales@vfbolts.com](mailto:sales@vfbolts.com)