



SPC4[®]

Load Indicating System

Interchangeable Meters
& Wireless Sensors



TAKE CLAMP LOAD MONITORING TO THE NEXT LEVEL.



SAFER INSTALLATION · LESS DOWNTIME · OPTIMIZE EQUIPMENT PERFORMANCE · COST SAVINGS · JOINT INTEGRITY

Markets

Mining • Oil & Gas • Petro/Chem • Power
• Crane • Rail • Steel • Subsea

SPC4[®] Advantages

- Install joints accurately to within +/- 5% of desired clamp load.
- Suitable for high-temp applications.
- Ability to continuously monitor fastener tension.
- Accurate, faster, and repeatable installs.
- Inexperienced operators can complete complex assemblies with accuracy.
- Direct control of tightening tool force during installation.
- Shut-off installation tool at predetermined fastener tension.
- Easy-to-read displays for faster maintenance inspections.

ORDER YOURS TODAY!

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The Load Indicating Fastener with Fully Interchangeable Mechanical or Electronic Meters and Wireless Sensors for Accurate Readout, Load Data Logging, and Wireless Remote Monitoring of Any SPC4[®] Bolted Joint.

Knowing the tension of critical joints is a matter of safety, peak performance, and maximum uptime. Valley Forge is shifting the paradigm with SPC4[®] Load Indicating Technology that makes it possible to measure the direct tension in a fastener, not just the preload that is being applied by torque or another tightening method. It brings a level of precision to controlled bolting unlike any other system.

The SPC4[®] joint makes it possible to re-tighten only the bolts or studs that have lost their clamp load. This results in a tremendous saving of maintenance time, money, and replacement parts. For a minimal investment, the SPC4[®] offers maximum joint integrity with optimum performance.

SPC4[®] Meters and Sensors precisely measure the direct tension of any SPC4[®] fastener via the gage pin.



800-832-6587 | www.vfbolts.com



SPC4[®] Load Indicating System

Interchangeable Meters & Wireless Sensors

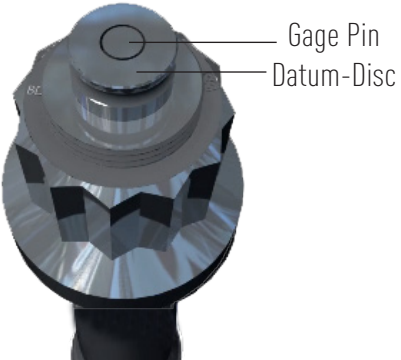
FREE YOURSELF FROM
THE MYSTERIES OF TORQUE.
READ TENSION DIRECTLY
FROM THE FASTENER.

ASTM F-2482 compliant. Accuracy to +/-5%.

- SPC4[®] fasteners are fitted with an application-specific gage pin.
- The standard datum-disc forms a flat surface with the top of the gage pin prior to fastener tensioning.
- During tightening, the fastener elongates and the pin is drawn away from the datum-disc surface.
- SPC4[®] meters and sensors measure and monitor tension; the distance between the datum-disc surface and the top of the gage pin.
- The meters and sensors then translates and displays this distance as a percentage of fastener minimum yield strength.

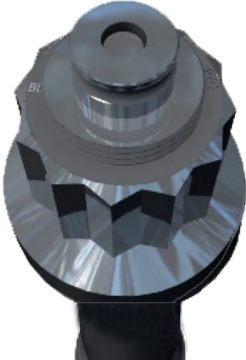
Unloaded Fastener

0%



Loaded Fastener

100%



With SPC4[®] technology, a fastener is manufactured or retrofitted with a gage pin and datum-disc that can be used with all SPC4[®] meters and sensors.



SPC4[®] Meters and Sensors: Options for Every Application.

Any of our analog or electronic meters and wireless sensors can be used with any of our SPC4[®] fasteners. Analog meters are intrinsically safe. Electronic meters offer digital output, installation tool control, and load data recording systems. Wireless meters allow for real-time remote load monitoring and include WiFi, low frequency, and Bluetooth options.

- SPC4[®] 500A (MECHANICAL METER)
- SPC4[®] 406A (ELECTRONIC LOAD INDICATING METER WITH BLUETOOTH OUTPUT)
- SPC4[®] 424A (ELECTRONIC LOAD INDICATING METER, WITH INSTALLATION TOOL CONTROL)
- SPC4[®] 600A (ELECTRONIC LOAD INDICATING METER, DATA RECORDING SYSTEM)
- SPC4[®] 702 SERIES (WIRELESS LOAD INDICATING SYSTEM AND LOAD DATA LOGGING SYSTEM)



Increase productivity. Mechanical and electronic meters with the ability to touch-and-display direct tension make maintenance inspections faster.



ALSO AVAILABLE

MAXBOLT[®] LOAD INDICATING FASTENERS

Built-in Meter

Features:

- Sealed mechanical readout on each bolt
- Measures direct tension in the fastener, eliminating the mystery of torque
- ASTM F-2482 compliant.

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