



Type Approval Certificate

This is to certify that the undernoted product(s) have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER	Valley Forge & Bolt Mfg. Co. 4410 West Jefferson Street Phoenix, AZ 85043 USA
PLACE OF PRODUCTION	Valley Forge & Bolt Mfg. Co. 4410 West Jefferson Street Phoenix, AZ 85043 USA
DESCRIPTION	MaxBolt™ and SPC4™ Size 1/4" to 7" (Diameter)
TYPE	Load Indicating Fasteners
APPLICATION	Load Indicating Fasteners for industrial & offshore application
STANDARD	Load Indication - Standard Specification for Load Indicating Fasteners ASTM F2482-2008 Manufacturing - ASTM A193- 2014, ASTM A325 -2014, ASTM A354- 2011, ASTM A449-2014 & ASTM A490 -2012
Certificate No.	14/60028
Issue Date	25 Nov 2014
Expiry Date	24 Nov 2019
Sheet	1 of 2

Gopal Nair

Lloyd's Register North America, Inc.

Lloyd's Register North America, Inc.
1330 Enclave Parkway, Suite 200, Houston, Texas 77077

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**RATINGS
LIMITATIONS:**

Fastener rating will be as per fastener manufacturing standard

1. The fastener is proof load tested as per fastener standard, a suitable safety factor to be applied on yield and tensile values at the time of installation by the purchase as per the application to the code of construction.
2. Where vibration or high fatigue cycles and/or high temperature are expected the manufacturer of fasteners should be consulted prior to installation.
3. MaxBolt™ is the Mechanical Dial Type (MT) and SPC4™ is electronic type (ET) as per ASTM F2482-2008
4. Where the manufacturer is only installing the indicating devices on the standard bought out stock fasteners the required level of fastener quality should be agreed with the purchaser.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register North America, Inc. of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 14/60028 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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