## Notes:

1. Category: Carriage Bolts

2. System of Measurement: Inch

3. Head Style: Round Head

4. Head Style Detail: Square Neck

5. Head Markings: Three radial lines 120 degrees apart and manufacturer ID

6. Body Style: Undersized Body7. Thread Length: Full Thread

8. Thread Direction: Right-Hand Thread

9. Material: Steel

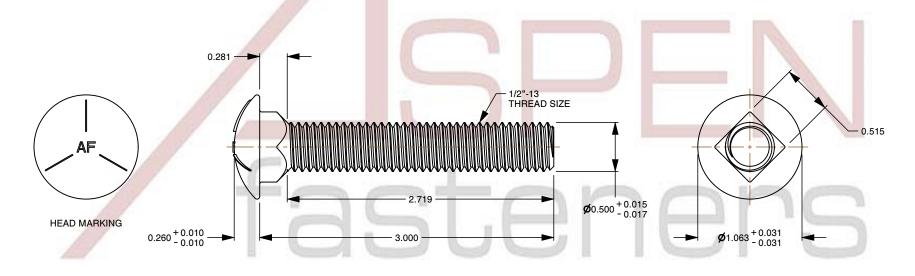
10. Material Grade: Grade 5 Steel

11. Coating: Uncoated

12. Standards and Specifications: ASME B18.5

"AF" IS MEANT TO REPRESENT THE MANUFACTURER'S ID MARKING AND WILL VARY DEPENDING ON THE MANUFACTURER OF THE PARTS.







This file and any associated information and specifications are provided for reference and evaluation purposes only and is subject to change without notice. Aspen Fasteners Inc. makes

no representations, warranties, or guarantees as to the appropriateness, accuracy, completeness, or suitability for any purpose of the file, information or specifications. You are solely responsible for the use of the file, information, or specifications.

This document is the property of Aspen Fasteners Inc. and the information it contains may not be reproduced, disclosed, or shared with any third party without the expressed written permission of Aspen Fasteners Inc.

SCALE 1.021

PRODUCT NAME 1/2"-13 X 3" Carriage Bolts, Round Head, Square Neck, Undersized Body, Full Thread, Grade 5 Steel, Plain

PART NUMBER: BO090-1213X3

UNIT INCHES

ISSUED 2023-11-23

SHEET 1 of 1