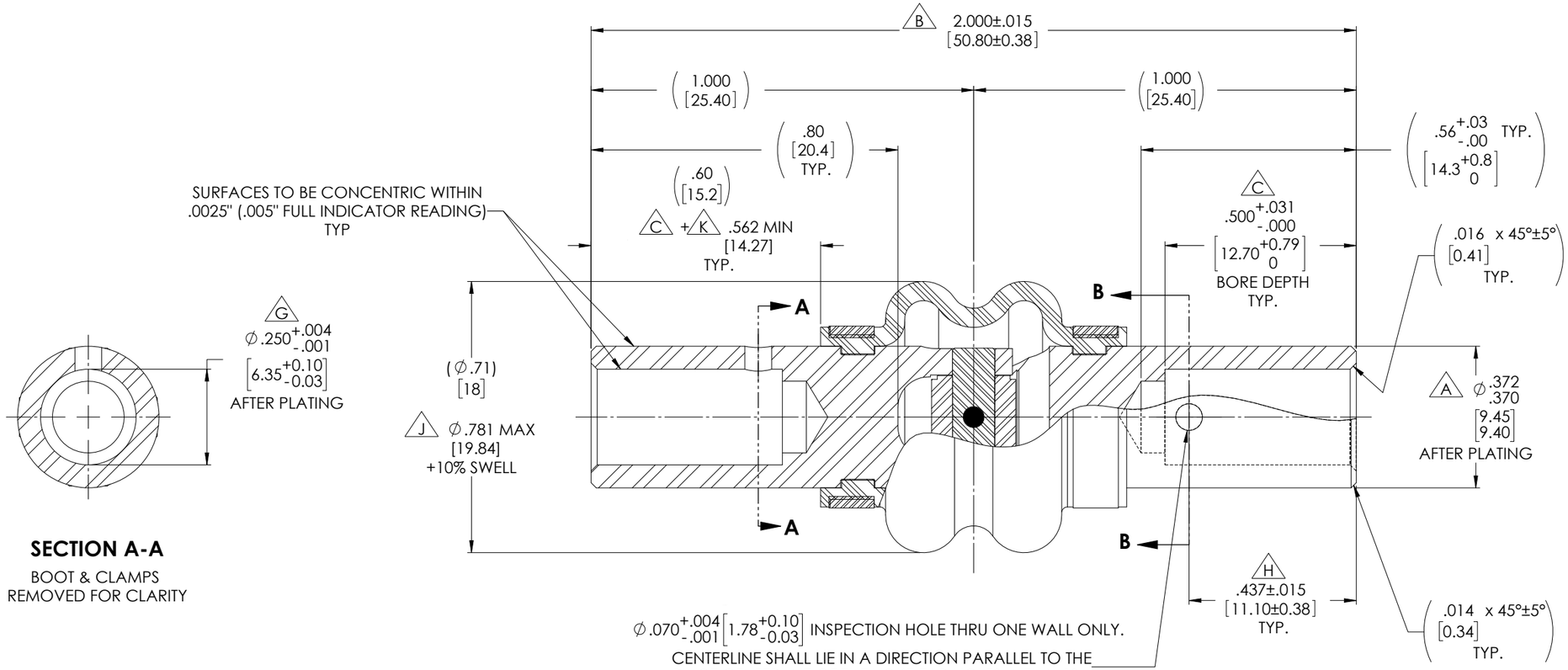
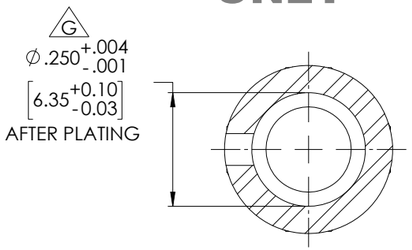
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



SECTION A-A

BOOT & CLAMPS
REMOVED FOR CLARITY

FOR REFERENCE ONLY



SECTION B-B

BOOT & CLAMPS
REMOVED FOR CLARITY

NOTES(s), UNLESS OTHERWISE SPECIFIED.

(1) UNIVERSAL JOINT DESIGNED AND TESTED I.A.W. MIL-DTL-6193, CLASS 2, TYPE B, AND MS20271.

(2) REF., FINISH: ALL EXTERNAL STEEL COMPONENTS CADMIUM PLATED I.A.W. SAE AMS-QQ-P-416, TYPE II (YELLOW CHROMATE), CLASS 2.

3 IDENTIFICATION: MARK (ELECTRO-ETCH or LASER) ASSEMBLY w/ NAME, PART NUMBER, MANUFACTURER CAGE CODE, DATE OF MANUFACTURE (MO/YR), AND BELDEN JOB No. APPROXIMATELY WHERE SHOWN.

BELDEN
MS20271B6
1R6X2 MO/YR
(JOB No.)

(4) LUBRICATION: LUBRICANT TO CONSIST OF A UNIFORM MIXTURE OF GREASE CONFORMING TO MIL-PRF-32014 or MIL-PRF-81322 WITH A 6% (± 1/2 %) BY WEIGHT ADDITIVE CONFORMING TO SAE-AMS-M-7866 LUBRICANT, MOLYBDENUM DISULFIDE.

(5) CLOSURE (BOOT): MUST BE RESISTANT TO OZONE CRACKING AND BE ABLE TO RETAIN THE LUBRICANT AT ALL TEMPERATURES BETWEEN -67°F [-55°C] AND +160°F [+71°C] DURING OPERATION.

(6) ANGULARITY: MUST BE OPERABLE TO A MINIMUM ANGLE OF 30°.

(7) MAXIMUM ALLOWABLE TORSIONAL PLAY (BACKLASH): .83° (±2%) @ 4 LB-IN [0.45 N-m], ±2%.

(8) MAXIMUM ALLOWABLE END PLAY: .0027" [0.069mm] TOTAL WITH A 5 LB LOAD APPLIED IN BOTH DIRECTIONS WITHOUT LUBRICANT OR BOOT.

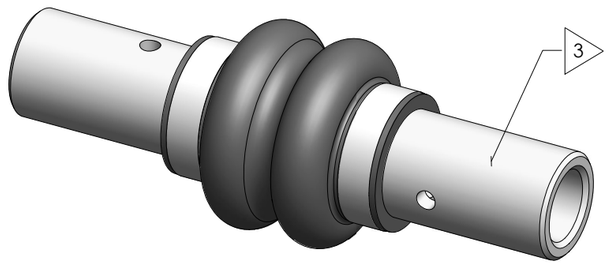
(9) MAXIMUM ALLOWABLE SIDE PLAY: .0055" [0.140mm] TOTAL WITH A 5 LB LOAD APPLIED IN BOTH DIRECTIONS WITHOUT LUBRICANT OR BOOT.

(10) ULTIMATE STATIC TORQUE: 200 LB-IN [22.60 N-m], ±2%.

(11) ULTIMATE TENSILE OR COMPRESSIVE STRENGTH: 500 LBS [226.80 Kg], ±2%.

(12) DYNAMIC TORQUE ENDURANCE TEST: 30 LB-IN [3.39 N-m], ±2%, AT 120 RPM AND A 15° ANGLE FOR 5 HOURS.

(13) FLAG NOTES A B C ... CORRESPOND TO DIMENSIONS AS LABELED ON SPECIFICATION MS20271.



SCALE 4 : 1

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED
CHAMFER ALL HOLES
BREAK ALL SHARP CORNERS
DE-BURR ALL FEATURES
TURNED SURFACES: 63
MILLED SURFACES: 125

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BELDEN UNIVERSAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BELDEN UNIVERSAL IS PROHIBITED.

STANDARD TOLERANCES, UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES [mm]
ANGULAR MACHINED: ±1.0°
FRACTIONAL: ±.015"
TWO PLACE DECIMAL: ±.010"
THREE PLACE DECIMAL: ±.005"
FOUR PLACE DECIMAL: ±.0005"
CONCENTRICITY: .0025" T.I.R.
ALL HOLES TO BE LOCATED ON CENTERLINE (℄) WITHIN .005" T.I.R.
INTERPRET GEOMETRIC TOLERANCES I.A.W. ASME Y14.5

MATERIAL: ALLOY STEEL
HEAT TREAT: SEE DETAIL DRAWINGS
FINISH/COATING: REF., CADMIUM PLATED
COMMENTS:

	INITIALS	DATE
DRAWN	CJM	05APR06
CHECKED	RNK	11MAY06
ENG APPR.	RNK	11MAY06
MFG APPR.		
QUALITY		

Belden Universal
www.beldenuniversal.com

TITLE: ASSEMBLY, UNIVERSAL JOINT, (MIL-STD)

SIZE B | DWG. NO. MS20271B6 | REV

SCALE: 6:1 | WEIGHT (Lbs): 0.045 | SHEET 1 OF 2