


REVISION HISTORY		
REV	DATE	DESCRIPTION
B	7/10/19	BORE WAS CONCENTRIC
A	6/19/19	ISSUED FOR REVIEW

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	UNLESS OTHERWISE SPECIFIED	DRAWN BY: GVD	DATE: 7/10/19	
	ALL DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES 01" OR GR 45° RADI	CHECKED BY:	DATE:	TITLE
	95 T.I.R. .010. INTERPRET DWG PER ANSI Y14.5 STANDARD.	APPROVED:	DATE:	30" HCWI NOZZLE FORT HILLS / SUNCOR
	TOLERANCES: X = ± .118 X.X = ± .050 X.XX = ± .015 X.XXX = ± .005 ANGLES: ± 1/2°	MATERIAL & HEAT TREAT ASTM A532 CLASS III TYPE A		PROJECT NAME A1-19010
				REFERENCE A1-19010-200-00
				REV. B
				DWG. / PART NO. A1-19010-200-02 HCWI nozzle insert.idw
				SHEET 1 OF 1
	125/✓	FINISH ON ALL MACHINED SURFACES		