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NOTES UNLESS OTHERWISE SPECIFIED

- PARENT MATERIAL: 316 STAINLESS STEEL, 16 GAUGE (0.060" THICK)
- FINISH: NO METAL FINISHING REQUIRED. THE FINAL FINISH SHALL BE THE RESULT OF THE PROCESSES USED TO FABRICATE THE SHAPE, RESULTING IN AN ESTIMATED SURFACE ROUGHNESS OF 80 Ra.
- ESTIMATED INTERNAL VOLUME: 0.22 GALLONS (50.05 INCH³)

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE FOR MANUFACTURING	14DEC2000	J.KNAPP
01	Changed Flat Diameter from 0.51" TO 0.50"	19JAN2010	L.FERNANDEZ
02	Chnged ID from 3.99" to 3.91"	24JUL2012	L.FERNANDEZ
A	Updated sheet format, corrected title block and revision block author information	08APR2016	R.DAVIS
B	Corrected ID from 3.91" to 3.91", corrected Flange Radius from 0.13" to 0.188", corrected Radius from 0.25" to 0.50", added 0.25" tolerance to Overall Height	17MAR2017	R.DAVIS

Top view of the hopper. It shows a central hole with a diameter of $\phi .25$ THRU HOLE. The outer diameter of the flange is $\phi 4.38$ Flange O.D. Section lines A-A are indicated.

SECTION A-A: A cross-sectional view of the hopper. The overall height is $6.00 \pm .25$. The internal diameter is $\phi 3.90$ ID. The straight wall section has a length of (2.69) . The top edge has a thickness of $(.060)$. The inner radius of the top edge is $R.19$ INSIDE. The bottom edge has a thickness of $(.045)$. The sloped section has a thickness of $(.030)$ and a 60.00° angle. The inner radius of the sloped section is $R.50$ INSIDE. Section line B-B is shown at the bottom of the sloped section.

DETAIL B: A close-up view of the flat bottom surface. The diameter is $\phi .50 \pm 0.10$ FLAT.

DETAIL B
SCALE 1 : 1

SECTION A-A

ISOMETRIC VIEW
SCALE 1 : 4

UNLESS OTHERWISE SPECIFIED:
 1. DO NOT SCALE DRAWING
 2. DIMENSIONS ARE IN INCHES
 3. TOLERANCE:
 FRACTIONAL $\pm .25$
 X.X $\pm .1$
 X.XX $\pm .03$
 X.XXX $\pm .010$
 ANGULAR: ± 2 DEG.
 4. INTERPRET DRAWING PER ASME-Y14.5M-1994 STANDARDS
 5. THIRD ANGLE PROJECTION
 6. REMOVE BURRS & BREAK ALL SHARP EDGES WITH $R0.03 \pm .02$

	NAME	DATE
DRAWN	J.KNAPP	14DEC2000
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

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TOLEDO METAL SPINNING COMPANY
EST. 1929

TITLE:
4" HOPPER WITH 3" STRAIGHT WALL

SIZE	DRAWING NUMBER	REV
A	TMS4316-316SS	B
SCALE: 1:2		WEIGHT: 0.73
SHEET 1 OF 1		