

4

3

2

1

NOTES UNLESS OTHERWISE SPECIFIED

- PARENT MATERIAL: 304 STAINLESS STEEL, 14 GAUGE (0.075" 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: 41.59 GALLONS (9607.1 INCH<sup>3</sup>)

REVISIONS

| REV. | DESCRIPTION   | DATE      | APPROVED    |
|------|---|-----------|-------------|
| 00   | INITIAL RELEASE FOR MANUFACTURING   | 15DEC2000 | J.KNAPP     |
| 01   | Changed Straight Wall from 9.9" to 9.84"  | 23MAR2003 | J.KNAPP     |
| 02   | Changed Flat from 1.85" to 1.5", changed Overall Height from 26.8" to 25.9"   | 15JAN2010 | L.FERNANDEZ |
| 03   | Changed Radius from 1.00" to 3.00", changed Straight Wall from 9.84" to 9.23", changed Radius from .20" to .22", changed Flat from 1.5" to 1.68"  | 03JUL2012 | L.FERNANDEZ |
| 04   | Changed Overall Height from 25.9" to 25.5"  | 05OCT2012 | D.JOHNSON   |
| A    | Updated sheet format, corrected title block and revision block author information, corrected Straight Wall dimension callout, added 0.10" tolerance to Flat dimension, changed Flange Radius from 0.22" to 0.20", changed Title from 10" Straight Wall to 9". | 08MAR2016 | R.DAVIS     |

Ø21.19 Flange OD

(.074)

R.20 INSIDE

R3.00 INSIDE

(.067)

(.037)

60.0°

Ø19.93 ID

(8.60) STRAIGHT WALL

25.50±.25

Ø1.68±.10 FLAT

DETAIL B  
SCALE 1 : 2

SECTION A-A

ISOMETRIC VIEW  
SCALE 1 : 16

UNLESS OTHERWISE SPECIFIED:

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

|           | NAME    | DATE      |
|-----------|---------|-----------|
| DRAWN     | J.KNAPP | 15DEC2000 |
| CHECKED   |         |           |
| ENG APPR. |         |           |
| MFG APPR. |         |           |
| Q.A.      |         |           |

**PROPRIETARY AND CONFIDENTIAL**

THE INFORMATION CONTAINED WITHIN THIS DRAWING IS THE SOLE PROPERTY OF TOLEDO METAL SPINNING COMPANY. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF TOLEDO METAL SPINNING COMPANY IS PROHIBITED.

**TOLEDO METAL SPINNING COMPANY**  
EST. 1929

TITLE:  
20" HOPPER WITH 9" STRAIGHT WALL

| SIZE | DRAWING NUMBER | REV |
|------|----------------|-----|
| A    | TMS201014      | A   |

SCALE: 1:8    WEIGHT: 1404.99    SHEET 1 OF 1