



| PART NUMBER | TUBE O.D. | PIPE THREAD | A | B | C | D | E | F |
|-------------|-----------|-------------|------|------|-------|------|-------|------|
| 20079 | 1/8 | 1/8 | 0.77 | 0.69 | 7/16 | 0.98 | 7/16 | 1.20 |
| 20076 | 5/32 | 10-32* | 0.76 | 0.67 | 3/8 | 0.71 | 5/16 | 0.89 |
| 20080 | 5/32 | 1/8 | 0.75 | 0.68 | 7/16 | 0.89 | 3/8 | 1.11 |
| 20077 | 5/32 | 1/4 | 0.75 | 0.68 | 9/16 | 1.08 | 3/8 | 1.30 |
| 20078 | 1/4 | 10-32* | 0.94 | 0.86 | 5/16 | 0.79 | 3/8 | 1.23 |
| 20081 | 1/4 | 1/8 | 0.98 | 0.90 | 3/8 | 0.93 | 3/8 | 1.16 |
| 20082 | 1/4 | 1/4 | 0.98 | 0.90 | 9/16 | 0.99 | 3/8 | 1.23 |
| 20086 | 1/4 | 3/8 | 1.06 | 0.98 | 11/16 | 1.14 | 1/2 | 1.43 |
| 20087 | 3/8 | 1/8 | 1.02 | 0.94 | 1/2 | 1.08 | 1/2 | 1.38 |
| 20083 | 3/8 | 1/4 | 1.07 | 0.99 | 9/16 | 1.15 | 1/2 | 1.45 |
| 20084 | 3/8 | 3/8 | 1.08 | 1.00 | 11/16 | 1.24 | 1/2 | 1.55 |
| 20088 | 3/8 | 1/2 | 1.08 | 1.00 | 7/8 | 1.54 | 1/2 | 1.85 |
| 20085 | 1/2 | 3/8 | 1.24 | 1.16 | 5/8 | 1.34 | 11/16 | 1.68 |
| 20092 | 1/2 | 1/2 | 1.24 | 1.16 | 5/8 | 1.61 | 7/8 | 1.96 |

A

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|-----|-----|------|----------|--|-----------------|--------------|-------------------------------|
| 4 | | | | TOLERANCES ARE: DECIMALS: .X ± 0.03 .XX ± 0.01 .XXX ± 0.005 ANGLES: ± 1° FRACTIONS ± 1/8 | Date: 01/30/04 | UNIT: INCH | Material: CA377 BRASS |
| 3 | | | | Checked: _____ | Drawn: Rita Sue | Scale: _____ | Part Title: SWIVEL MALE ELBOW |
| 2 | | | | Approved: _____ | PROJECT | | |
| 1 | | | A | | | | |
| NO. | PCA | Date | Revision | | | DWG. NO. | |

MIDLAND METAL MFG. CO.
KANSAS CITY, MO