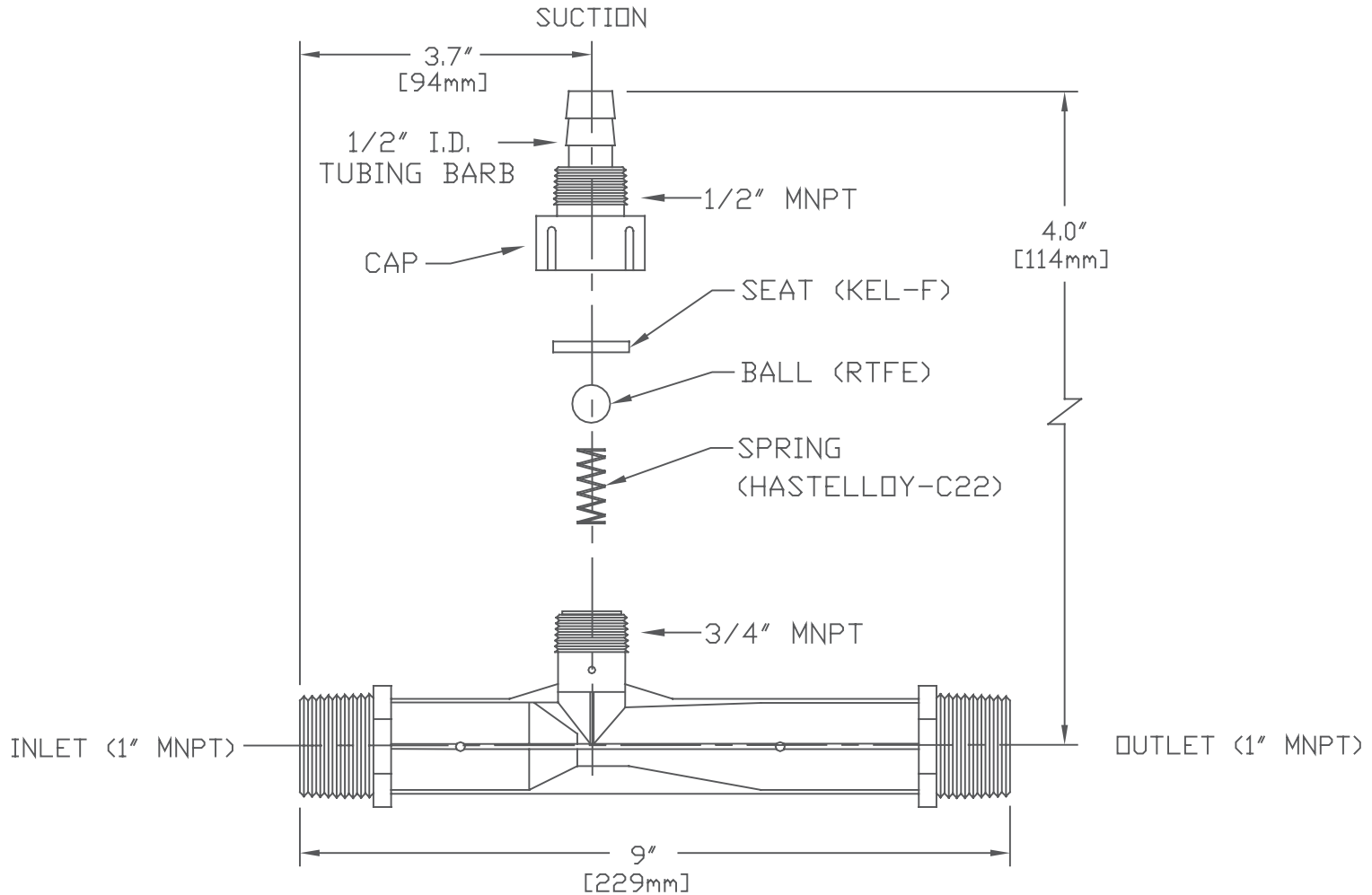


NOTES:

1. INLET AND OUTLET: 1" MNPT OR BSPT (ISO-R)
2. SUCTION PORT: 1/2" (ID) TUBING BARB OR 1/2" MNPT
3. MATERIAL OF CONSTRUCTION: GLASS REINFORCED POLYPROPYLENE OR PVDF (KYNAR)
4. MAXIMUM TEMPERATURE RATING:
  - POLYPROPYLENE: 150 F. (65.5 C.)
  - PVDF: 200 F. (93.3 C.)
5. MAXIMUM PRESSURE RATING: AT 68 F. (20 C.)
  - POLYPROPYLENE: 150 PSIG (10.3 BAR)
  - PVDF: 200 PSIG (13.8 BAR)



DISCLAIMER: Any recommendations for particular products and/or system design, whether contained in a document, within this drawing, communicated by electronic means, or given verbally, are intended solely as guides to actual system design. Said recommendations are based upon information supplied by others, the accuracy of which is beyond verification by Mazzei Injector Corp. (MIC). Likewise, the actual operation of any system utilizing the products or recommendations of MIC is equally beyond the control of MIC. Therefore, MIC cannot, and does not, warrant the suitability of its products for a particular service nor the performance of any system containing components made or sold by MIC.



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 500 Rooster Drive, Bakersfield, CA 93307  
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|            |           |                       |            |
|------------|-----------|-----------------------|------------|
| DATE       | 2-23-04   | TITLE                 |            |
| DRAWN BY   | JRM       | MODEL 978-02 INJECTOR |            |
| REVISED    |           | NUMBER                | JRM-274    |
| REVISED BY |           | SCALE                 | NONE       |
| MATERIALS  | SEE NOTES | PAGE                  | (1) OF (1) |

| Mazzei Injector Company, LLC - Injector Performance Table |                 |                   |                   |                           |                 |                   |                   |      |      |
|---|-----------------|-------------------|-------------------|---------------------------|-----------------|-------------------|-------------------|------|------|
| Injector Model  |                 |                   |                   | 978-2                     |                 | 7/28/2004         |                   |      |      |
| Operating Pressure kg/cm2                                 |                 | Air Suction       |                   | Operating Pressure kg/cm2 |                 | Air Suction       |                   |      |      |
| Injector Inlet  | Injector Outlet | Motive Flow l/min | Air Suction l/min | Injector Inlet            | Injector Outlet | Motive Flow l/min | Air Suction l/min |      |      |
| 0.35  | 0.00            | 15.4              | 8.8               | 4.22                      | 0.00            | 53.3              | 34.5              |      |      |
|   | 0.07            |                   | 2.4               |                           | 0.35            |                   | 26.9              |      |      |
|   | 0.14            |                   | 0.9               |                           | 0.70            |                   | 17.6              |      |      |
|   | 0.21            |                   | 0.4               |                           | 1.05            |                   | 11.7              |      |      |
|   | 0.28            |                   | 0.2               |                           | 1.41            |                   | 8.6               |      |      |
| 0.70  | 0.00            | 21.8              | 14.1              |                           | 4.92            |                   | 2.11              | 57.5 | 5.1  |
|   | 0.14            |                   | 5.3               |                           |                 |                   | 2.46              |      | 3.7  |
|   | 0.35            |                   | 1.5               |                           |                 |                   | 2.81              |      | 2.7  |
|   | 0.49            |                   | 0.6               |                           |                 |                   | 3.16              |      | 1.7  |
|   | 0.56            |                   | 0.4               |                           |                 |                   | 0.00              |      | 34.8 |
| 1.05  | 0.00            | 26.6              | 17.9              | 5.62                      | 0.35            | 61.5              | 29.6              |      |      |
|   | 0.35            |                   | 4.2               |                           | 0.70            |                   | 23.3              |      |      |
|   | 0.49            |                   | 2.7               |                           | 1.05            |                   | 15.1              |      |      |
|   | 0.70            |                   | 1.2               |                           | 1.41            |                   | 10.8              |      |      |
|   | 0.84            |                   | 0.6               |                           | 2.11            |                   | 7.1               |      |      |
| 1.41  | 0.00            | 30.8              | 20.8              |                           | 6.33            |                   | 2.81              | 68.8 | 4.3  |
|   | 0.35            |                   | 6.9               |                           |                 |                   | 3.16              |      | 3.3  |
|   | 0.70            |                   | 2.9               |                           |                 |                   | 3.52              |      | 2.3  |
|   | 0.84            |                   | 1.9               |                           |                 |                   | 3.87              |      | 1.4  |
|   | 1.05            |                   | 1.0               |                           |                 |                   | 0.00              |      | 36.0 |
| 1.76  | 0.00            | 34.4              | 22.7              | 7.03                      | 0.35            | 75.3              | 31.8              |      |      |
|   | 0.35            |                   | 8.8               |                           | 0.70            |                   | 26.4              |      |      |
|   | 0.70            |                   | 4.1               |                           | 1.05            |                   | 18.0              |      |      |
|   | 1.05            |                   | 2.2               |                           | 1.41            |                   | 13.2              |      |      |
|   | 1.41            |                   | 0.8               |                           | 2.11            |                   | 9.0               |      |      |
| 2.11  | 0.00            | 37.7              | 23.5              |                           | 8.44            |                   | 2.81              | 75.3 | 5.5  |
|   | 0.35            |                   | 12.6              |                           |                 |                   | 3.52              |      | 3.5  |
|   | 0.70            |                   | 6.0               |                           |                 |                   | 4.22              |      | 1.9  |
|   | 1.05            |                   | 3.4               |                           |                 |                   | 4.57              |      | 1.8  |
|   | 1.41            |                   | 1.8               |                           |                 |                   | 0.00              |      | 41.5 |
| 2.46  | 0.00            | 40.7              | 22.8              | 7.03                      | 0.35            | 68.8              | 32.9              |      |      |
|   | 0.35            |                   | 13.8              |                           | 0.70            |                   | 28.9              |      |      |
|   | 0.70            |                   | 7.7               |                           | 1.05            |                   | 15.7              |      |      |
|   | 1.05            |                   | 5.2               |                           | 1.41            |                   | 10.7              |      |      |
|   | 1.41            |                   | 3.2               |                           | 2.81            |                   | 7.6               |      |      |
| 2.81  | 0.00            | 43.5              | 24.6              | 8.44                      | 3.52            | 75.3              | 4.7               |      |      |
|   | 0.35            |                   | 18.3              |                           | 4.22            |                   | 3.4               |      |      |
|   | 0.70            |                   | 9.6               |                           | 4.92            |                   | 2.1               |      |      |
|   | 1.05            |                   | 6.2               |                           | 5.27            |                   | 1.7               |      |      |
|   | 1.41            |                   | 4.1               |                           | 0.00            |                   | 42.9              |      |      |
| 3.16  | 0.00            | 46.1              | 25.9              | 7.03                      | 0.35            | 68.8              | 35.9              |      |      |
|   | 0.35            |                   | 20.1              |                           | 0.70            |                   | 31.8              |      |      |
|   | 0.70            |                   | 11.1              |                           | 1.05            |                   | 18.4              |      |      |
|   | 1.05            |                   | 7.6               |                           | 1.41            |                   | 13.1              |      |      |
|   | 1.41            |                   | 5.3               |                           | 2.11            |                   | 9.1               |      |      |
| 3.52  | 0.00            | 48.6              | 28.9              | 8.44                      | 2.81            | 75.3              | 6.3               |      |      |
|   | 0.35            |                   | 22.8              |                           | 3.52            |                   | 6.3               |      |      |
|   | 0.70            |                   | 12.8              |                           | 4.22            |                   | 4.6               |      |      |
|   | 1.05            |                   | 9.1               |                           | 4.92            |                   | 3.3               |      |      |
|   | 1.41            |                   | 6.5               |                           | 5.62            |                   | 2.1               |      |      |
| 3.52  | 0.00            | 48.6              | 28.9              | 8.44                      | 0.00            | 75.3              | 44.3              |      |      |
|   | 0.35            |                   | 22.8              |                           | 0.35            |                   | 38.6              |      |      |
|   | 0.70            |                   | 12.8              |                           | 0.70            |                   | 33.9              |      |      |
|   | 1.05            |                   | 9.1               |                           | 1.41            |                   | 22.8              |      |      |
|   | 1.41            |                   | 6.5               |                           | 2.11            |                   | 15.8              |      |      |
| 3.52  | 0.00            | 48.6              | 28.9              | 8.44                      | 2.81            | 75.3              | 11.3              |      |      |
|   | 0.35            |                   | 22.8              |                           | 3.52            |                   | 7.6               |      |      |
|   | 0.70            |                   | 12.8              |                           | 4.22            |                   | 6.3               |      |      |
|   | 1.05            |                   | 9.1               |                           | 4.92            |                   | 4.7               |      |      |
|   | 1.41            |                   | 6.5               |                           | 5.62            |                   | 3.7               |      |      |
| 3.52  | 0.00            | 48.6              | 28.9              | 8.44                      | 7.03            | 75.3              | 2.6               |      |      |
|   | 0.35            |                   | 22.8              |                           | 0.00            |                   | 1.9               |      |      |
|   | 0.70            |                   | 12.8              |                           | 0.35            |                   | 1.9               |      |      |
|   | 1.05            |                   | 9.1               |                           | 0.70            |                   | 1.9               |      |      |
|   | 1.41            |                   | 6.5               |                           | 1.05            |                   | 1.9               |      |      |