



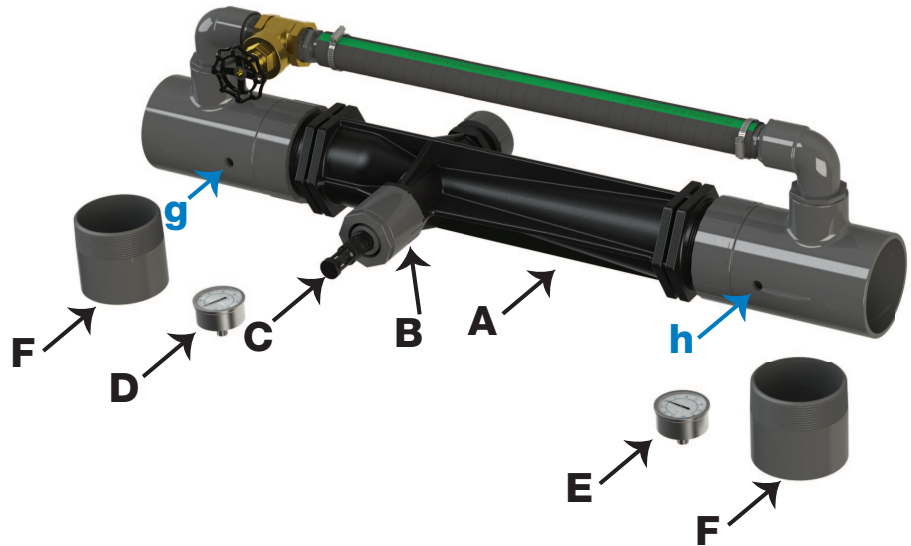
World Leader
in Mixing and Contacting
Technologies

Mazzei AirJection® Irrigation

US Patent No. 7,040,839 and Various International Patents

CONTENTS:

- A. One (1) Black PVDF or Polypropylene AirJection Unit
- B. One (1) Air Suction Port Assembly
- C. One (1) Strainer Assembly
- D. One (1) Inlet Pressure Gauge (marked 'D')
- E. One (1) Outlet Pressure Gauge (marked 'E')
- F. Two (2) Schedule 40 Gray PVC Half-Nipples



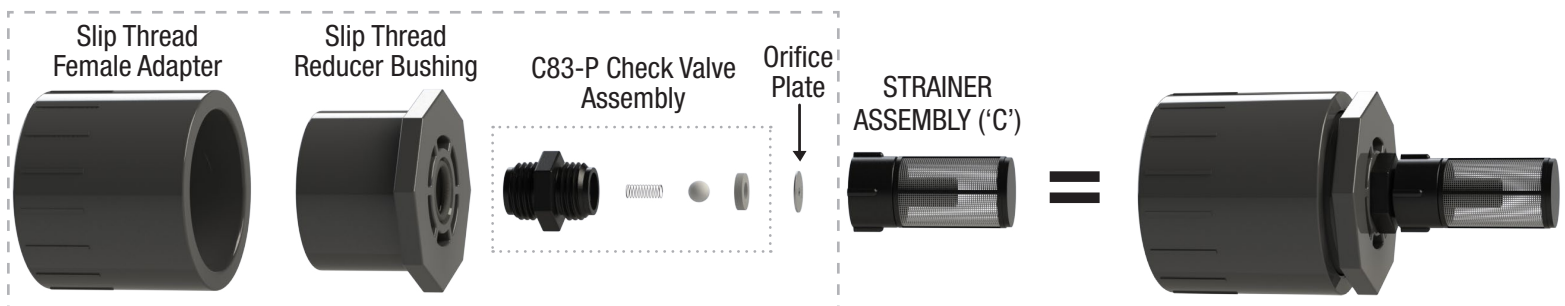
INSTALLATION:

1. Remove and inspect all the components in the box.
2. Install the inlet pressure gauge (marked 'D') in the hole marked 'g' on the unit.
3. Install the outlet pressure gauge (marked 'E') in the hole marked 'h' on the unit. *(To avoid cross threading, please use care when installing the gauges.)*
4. Install the Air Suction Port Assembly ('B') on the injector suction port.
5. Install the Strainer Assembly ('C') on the Air Suction Port Assembly ('B').
6. Install the MAI unit in the field (using the supplied half-nipples ('F'), if desired). *(Please notice the water flow indicator arrow on the unit and install accordingly.)*

TIPS:

- *If using a tee as the lateral connection to the outlet of the unit, it must be level to allow equal air/water distribution.*
- *If installing the unit in an existing system, please flush the lines at initial start-up as the aerated water will scour the inside of the tape and dislodge any deposits in the line.*

AIR SUCTION PORT ASSEMBLY ('B')





Mazzei AirJection® Irrigation

Selection & Calibration Guidelines

2" Model MAI-2081 Male BSPT 337 to 697 lpm

| Inlet Pressure (kg/cm ²) | Bypass Valve Position (Turns Open) | Water Flow (lpm) | Orifice Plate No. |
|--------------------------------------|------------------------------------|------------------|-------------------|
| 2.11 | 0 | 337 | 107 |
| | 2 | 401 | 125 |
| | 4 | 439 | 125 |
| | 6 | 466 | 125 |
| 2.81 | 0 | 386 | 107 |
| | 2 | 469 | 107 |
| | 4 | 530 | 125 |
| 3.52 | 0 | 432 | 107 |
| | 2 | 511 | 107 |
| | 4 | 598 | 125 |
| | 6 | 647 | 125 |
| 4.22 | 0 | 458 | 107 |
| | 2 | 575 | 107 |
| | 4 | 670 | 125 |
| | 6 | 697 | 125 |

3" Model MAI-3090 Male BSPT 795 to 1417 lpm

| Inlet Pressure (kg/cm ²) | Bypass Valve Position (Turns Open) | Water Flow (lpm) | Orifice Plate No. |
|--------------------------------------|------------------------------------|------------------|-------------------|
| 2.11 | 0 | 795 | 151 |
| | 2 | 886 | 151 |
| | 4 | 958 | 172 |
| | 6 | 1033 | 182 |
| | 8 | 1056 | 182 |
| 2.81 | 0 | 931 | 151 |
| | 2 | 1015 | 151 |
| | 4 | 1147 | 172 |
| | 6 | 1189 | 182 |
| | 8 | 1196 | 182 |
| 3.52 | 0 | 996 | 151 |
| | 2 | 1094 | 172 |
| | 4 | 1230 | 182 |
| | 6 | 1314 | 182 |
| | 8 | 1321 | 182 |
| 4.22 | 0 | 1086 | 151 |
| | 2 | 1181 | 172 |
| | 4 | 1340 | 182 |
| | 6 | 1412 | 182 |
| | 8 | 1416 | 182 |

4" Model MAI-4091 Male BSPT 1325 to 2502 lpm

| Inlet Pressure (kg/cm ²) | Bypass Valve Position (Turns Open) | Water Flow (lpm) | Orifice Plate No. |
|--------------------------------------|------------------------------------|------------------|-------------------|
| 2.11 | 0 | 1325 | 196 |
| | 2 | 1654 | 196 |
| | 4 | 1904 | 218 |
| | 6 | 1995 | 218 |
| | 8 | 2010 | 218 |
| 2.81 | 0 | 1484 | 196 |
| | 2 | 1862 | 218 |
| | 4 | 2158 | 218 |
| | 6 | 2264 | 250 |
| | 8 | 2271 | 250 |
| 3.52 | 0 | 1624 | 196 |
| | 2 | 2052 | 218 |
| | 4 | 2377 | 250 |
| | 6 | 2491 | 250 |
| | 8 | 2502 | 250 |

CALIBRATION:

Using the information from these tables, ensure that the correct orifice plate is installed in the MAI unit. Choose the plate that corresponds closest to the MAI unit inlet pressure, valve position and water flow.

To obtain the desired outlet pressure:

After starting water flow and allowing the system to fully pressurize, adjust the bypass valve until the outlet gauge is at the desired pressure. You may have to raise or lower the supply pressure to the MAI unit to obtain the desired operating inlet/outlet pressures and flow. You should have a minimum of 2.11 kg/cm² at the inlet of the MAI unit.

Bypass Valve at 0 turns is completely CLOSED
Bypass Valve at 6 or 8 turns is completely OPENED

ORIFICE PLATE:

- The Orifice Plate should be installed with the numbers facing up.
- The smooth side should be down on the gasket.
- Care should be taken to ensure the Orifice Plate is centered on the gasket.

This side up

