



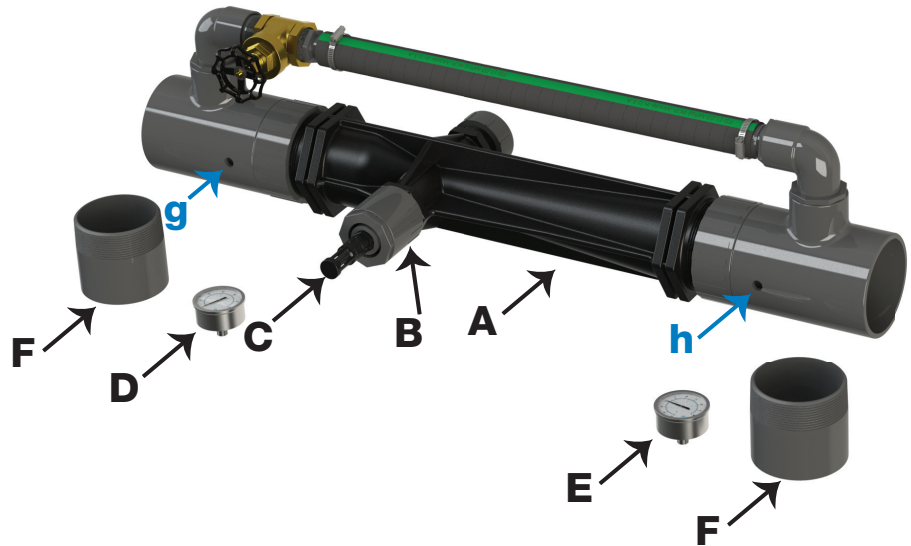
World Leader
in Mixing and Contacting
Technologies

Mazzei AirJection® Irrigation

US Patent No. 6,173,526 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



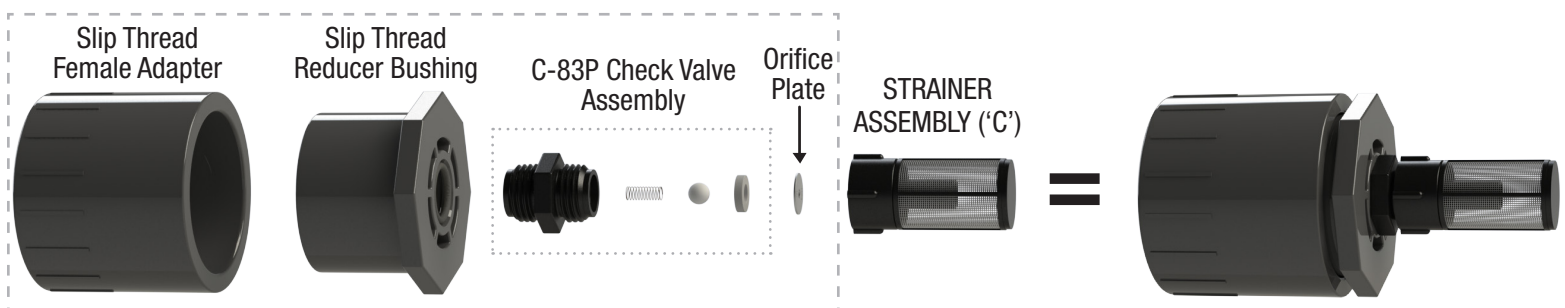
INSTALLATION:

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
	6	568	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

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

