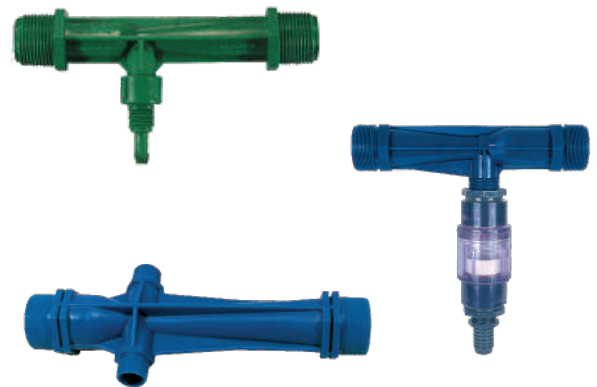


MAZZEI INJECTORS*

Mazzei injectors have been designed to allow the injection of a fluid into a main stream by pressure difference.



FEATURES

- Polypropylene (PP) and Kynar (PVDF) body
- In most installations no external energy is needed
- Low installation and maintenance costs
- Injectors suitable for continuous injection, without the need for any secondary equipment

Codification

PP (POLYPROPYLENE) BODY - GREEN

Code	Description
AIC287-P	Model 287 - M 1/2" NPT Inlet/Outlet - M 1/4" Suction Barbed connection point - with check valve (Black)
AIC584-PPG	Model 584 - M 3/4" BSPT Inlet/Outlet - 6.35 mm Suction Barbed connection point / M 1/4" Thread - with check valve
AIC885-PPG	Model 885 - M 1" BSPT Inlet/Outlet - 12.70 mm Suction Barbed connection point / M 1/2" Thread - with check valve
AIC1078-PPG	Model 1078 - M 1" BSPT Inlet/Outlet - 12.70 mm Suction Barbed connection point / M 1/2" Thread - with check valve
AIC1583-PPG	Model 1583 - M 1" 1/2 BSPT Inlet/Outlet - 12.70 mm Suction Barbed connection point / M 1/2" Thread - with check valve
AIC2081-PPG	Model 2081 - M 2" BSPT Inlet/Outlet - M 1" 1/4 Suction Barbed connection point - with check valve

PVDF (KYNAR) BODY - BLUE

Code	Description
AIC287	Model 287 - M 1/2" NPT Inlet/Outlet - M 1/4" Suction Barbed connection point - with check valve
AIC484	Model 484 - M 3/4" BSPT Inlet/Outlet - 6.35 mm Suction Barbed connection point / M 1/4" Thread - with check valve
AIC484-X	Model 484 - M 3/4" BSPT Inlet/Outlet - 6.35 mm Suction Barbed connection point / M 1/4" Thread - with check valve - High suction for greenhouses
AIC584	Model 584 - M 3/4" BSPT Inlet/Outlet - 6.35 mm Suction Barbed connection point / M 1/4" Thread with check valve - High flow rate
AIC885	Model 885X - M 1" BSPT Inlet/Outlet - 12.70 mm Suction Barbed connection point / M 1/2" Thread with check valve
AIC1078	Model 1078 - M 1" BSPT Inlet/Outlet - 12.70 mm Suction Barbed connection point / M 1/2" Thread with check valve
AIC1583	Model 1583 - M 1" 1/2 BSPT Inlet/Outlet - 12.70 mm Suction Barbed connection point / M 1/2" Thread with check valve
AIC2081	Model 2081 - M 2" BSPT Inlet/Outlet - M 1" 1/4 Thread suction connection point - with C75RBSPT check valve and AMA20 adapter
AIC3090	Model 3090 - M 3" BSPT Inlet/Outlet - M 1" 1/2 Double Thread suction connection point without check valve
AIC4090	Model 4090 - M 4" BSPT Inlet/Outlet - M 2" Double Thread suction connection point without check valve

*For operating specifications and choice of model, see page 119 in the Appendix. For accessories, see page 109.

SPECIFICATIONS

- From ½" to 2" male thread
- Flow rate: 1,10-598 l/min
- Inlet pressure: 0,35-8,44 bar
- They require a minimum pressure difference between the inlet one and the outlet one to create a flow through the suction hole

PERFORMANCE

Pressure		1/2" AIC 287 Model		3/4" AIC 484-X Model		3/4" AIC 484 Model		3/4" AIC 584 Model		1" AIC 1078 Model		1" 1/2 AIC 1583 Model		2" AIC 2081 Model	
a	b	Injector flow rate in U/min	Suction capacity U/min	Injector flow rate in U/min	Suction capacity U/min	Injector flow rate in U/min	Suction capacity U/min	Injector flow rate in U/min	Suction capacity U/min	Injector flow rate in U/min	Suction capacity U/min	Injector flow rate in U/min	Suction capacity U/min	Injector flow rate in U/min	Suction capacity U/min
0,35	0	1,10	0,33	4,50	1,48	4,50	0,92	7,91	1,84	20,74	6,40	40,60	8,57	122,60	39,70
	0,07		0,16		1,05		0,66		1,82		2,93		5,33		39,70
	0,14		0,11		0,75		0,42		1,80		1,40		3,36		39,70
	0,21		0,08		0,46		0,06		1,60		0,17		-		13,50
	0,28		-		-		-		0,63		-		-		8,60
0,70	0	1,21	0,39	6,40	1,88	6,40	1,18	11,20	1,78	29,30	6,67	57,40	13,87	173,40	39,70
	0,14		0,30		1,46		0,88		1,78		4,78		9,07		39,70
	0,35		0,12		0,75		0,38		1,73		2,64		4,97		29,50
	0,49		0,05		0,24		0,18		0,84		1,21		2,65		9,40
	0,56		-		-		-		0,69		0,28		-		1,90
1,05	0	1,59	0,43	7,83	2,44	7,83	1,18	13,70	1,78	35,88	6,39	70,30	14,21	212,30	39,80
	0,35		0,26		1,32		0,72		1,76		5,04		10,33		39,30
	0,49		0,18		0,99		0,52		1,77		4,08		7,85		36,40
	0,70		0,08		-		0,06		0,88		2,16		5,46		13,40
	0,84		-		-		-		0,70		1,07		0,92		4,80
1,41	0	1,93	0,44	9,01	2,49	9,01	1,14	15,82	1,57	41,45	6,20	81,20	14,39	245,30	39,80
	0,35		0,38		1,74		0,99		1,57		6,02		12,96		39,80
	0,70		0,21		0,84		0,60		1,50		4,42		9,06		29,50
	0,84		0,12		0,53		0,49		1,21		3,25		8,31		18,80
	1,05		0,03		-		0,06		0,92		1,91		4,18		9,60
1,76	0	2,20	0,49	10,11	2,50	10,11	1,13	17,68	1,59	46,33	6,05	90,80	14,31	274,40	39,80
	0,35		0,44		2,03		1,09		1,59		6,10		14,28		39,80
	0,70		0,28		1,39		0,87		1,59		5,64		12,23		39,50
	1,05		0,15		0,63		0,47		1,31		4,30		9,34		25,50
	1,41		-		-		0,06		0,77		2,01		3,09		8,50
2,11	0	2,46	0,50	11,05	2,51	11,05	1,09	19,38	1,60	50,76	5,95	99,50	14,29	300,50	39,80
	0,35		0,50		2,41		1,08		1,60		5,96		14,28		39,80
	0,70		0,35		1,82		1,05		1,57		5,96		13,35		39,80
	1,05		0,23		1,07		0,71		1,59		5,18		10,55		32,30
	1,41		0,11		-		0,45		1,15		3,50		7,92		21,50
1,76	-	-	-	0,73	1,13	1,15	3,90								
2,46	0	2,65	0,51	11,96	2,54	11,96	1,09	20,93	1,61	54,84	5,93	107,40	14,30	324,40	39,80
	0,35		0,50		2,48		1,10		1,61		5,93		14,29		39,80
	0,70		0,43		2,14		1,10		1,60		5,96		14,14		39,80
	1,05		0,32		1,53		1,10		1,59		5,80		12,98		39,50
	1,41		0,19		0,93		0,70		1,38		4,68		10,40		29,00
1,76	0,07	-	0,25	1,04	2,98	5,62	16,10								
2,81	0	2,84	0,51	12,76	2,57	12,76	1,08	22,37	1,62	58,63	5,88	114,80	14,34	347,10	39,80
	0,35		0,51		2,44		1,12		1,61		5,88		14,43		39,80
	0,70		0,47		2,43		1,12		1,62		5,88		14,33		39,80
	1,05		0,40		1,89		1,12		1,61		5,88		13,91		39,80
	1,41		0,27		1,31		0,96		1,59		5,79		12,17		33,00
1,76	0,17	0,41	0,72	1,35	4,56	9,68	24,90								
2,11	0,02	-	0,25	0,95	2,69	5,14	10,70								
3,16	0	3,07	0,51	13,55	2,61	13,55	1,09	23,73	1,63	62,19	5,86	121,80	14,38	367,90	39,80
	0,35		0,51		2,46		1,09		1,64		5,86		14,40		39,80
	0,70		0,51		2,39		1,10		1,64		5,86		14,38		39,80
	1,05		0,44		2,21		1,10		1,63		5,86		14,10		39,80
	1,41		0,35		1,70		1,05		1,62		5,92		13,40		38,30
1,76	0,25	1,15	0,87	1,49	5,48	11,03	32,00								
2,11	0,15	-	0,65	1,22	4,18	7,13	21,50								
2,46	-	-	0,23	0,85	2,32	2,97	9,40								
3,52	0	3,22	0,52	14,27	2,63	14,27	1,10	25,02	1,61	65,56	5,83	128,40	14,35	388,00	39,80
	0,35		0,52		2,55		1,10		1,61		5,83		14,35		39,80
	0,70		0,52		2,47		1,12		1,61		5,83		14,28		39,80
	1,05		0,50		2,36		1,12		1,61		5,83		14,23		39,80
	1,41		0,37		1,86		1,12		1,60		5,83		14,16		39,80
1,76	0,28	1,28	1,04	1,54	5,83	12,85	37,10								
2,11	0,19	0,52	0,80	1,36	5,45	10,88	28,60								
2,46	0,08	-	0,49	0,99	4,06	7,61	18,90								
2,81	-	-	-	-	2,21	2,55	7,30								

MAZZEI INJECTORS

PERFORMANCE

Pressure		1/2" AIC 287 Model		3/4" AIC 484-X Model		3/4" AIC 484 Model		3/4" AIC 584 Model		1" AIC 1078 Model		1" 1/2 AIC 1583 Model		2" AIC 2081 Model	
a	b	Injector flow rate in l/min	Suction capacity l/min	Injector flow rate in l/min	Suction capacity l/min	Injector flow rate in l/min	Suction capacity l/min	Injector flow rate in l/min	Suction capacity l/min	Injector flow rate in l/min	Suction capacity l/min	Injector flow rate in l/min	Suction capacity l/min	Injector flow rate in l/min	Suction capacity l/min
Inlet bar	Output bar														
4,22	0	3,48	0,52	15,63	2,68	15,63	1,12	27,40	1,67	71,80	5,85	140,70	14,49	425,10	39,80
	0,35		0,52		2,67		1,12		1,67		5,85		14,44		39,80
	0,70		0,49		2,42		1,12		1,67		5,85		14,45		39,80
	1,05		0,49		2,40		1,12		1,67		5,85		14,32		39,80
	1,41		0,49		2,37		1,12		1,65		5,85		14,37		39,80
	2,11		0,36		1,46		1,09		1,60		5,87		13,03		37,90
	2,46		0,26		0,71		0,96		1,50		5,79		11,50		32,10
	2,81		0,17		-		0,76		1,27		4,87		9,33		24,00
	3,16		0,04		-		0,25		0,91		2,80		5,18		13,70
4,92	0	3,75	0,52	16,88	2,67	16,88	1,14	29,60	1,63	77,55	5,89	151,90	14,43	459,10	39,80
	0,39		0,52		2,68		1,14		1,63		5,89		14,43		39,80
	0,70		0,52		2,49		1,08		1,64		5,89		14,43		39,80
	1,05		0,52		2,35		1,08		1,64		5,89		14,43		39,80
	1,41		0,52		2,25		1,08		1,63		5,89		14,43		39,80
	2,11		0,47		1,98		1,08		1,62		5,90		14,24		39,80
	2,81		0,30		1,03		1,03		1,62		5,83		12,53		33,40
	3,16		0,22		0,57		0,85		1,47		5,16		10,07		27,80
	3,52		0,11		-		0,72		1,06		3,44		7,85		20,60
3,87	-	-	0,09	0,57	1,82	2,73	9,00								
5,62	0	4,01	0,52	18,05	2,67	18,05	1,07	31,64	1,65	82,89	5,92	162,40	14,61	490,50	39,80
	0,35		0,52		2,65		1,07		1,60		5,92		14,61		39,80
	0,70		0,52		2,64		1,07		1,65		5,92		14,61		39,80
	1,05		0,52		2,57		1,07		1,65		5,92		14,61		39,80
	1,41		0,52		2,57		1,02		1,66		5,92		14,61		39,80
	2,11		0,51		2,51		1,03		1,66		5,92		14,61		39,80
	2,81		0,40		1,70		1,00		1,66		5,98		13,91		38,10
	3,52		0,26		0,43		0,94		1,58		5,77		11,19		31,90
	4,22		0,06		-		0,39		1,08		3,34		5,88		17,00
4,57	-	-	-	0,50	2,08	0,76	3,80								
6,33	0	4,28	0,52	19,15	2,67	19,15	0,86	33,57	1,71	87,93	5,96	172,30	14,47	520,40	39,80
	0,35		0,52		2,65		0,86		1,71		5,96		14,47		39,80
	0,70		0,52		2,57		0,86		1,71		5,96		14,47		39,80
	1,41		0,52		2,57		0,86		1,73		5,96		14,47		39,80
	2,11		0,52		2,49		0,86		1,72		5,96		14,47		39,80
	2,81		0,50		2,11		0,86		1,72		6,03		14,45		39,80
	3,52		0,36		1,66		0,86		1,72		5,95		13,74		38,00
	4,22		0,22		-		0,84		1,54		5,34		11,22		28,90
	4,92		0,01		-		0,27		0,84		2,50		3,10		11,30
5,27	-	-	-	0,33	1,30	-	-								
7,03	0	4,50	0,49	20,17	2,68	20,17	0,84	35,39	1,81	92,69	5,94	181,60	14,64	548,40	39,80
	0,35		0,49		2,65		0,84		1,81		5,94		14,64		39,80
	0,70		0,49		2,57		0,84		1,81		5,94		14,64		39,80
	1,41		0,49		2,50		0,84		1,84		5,94		14,64		39,80
	2,11		0,49		2,57		0,84		1,83		5,94		14,64		39,80
	2,81		0,47		2,21		0,84		1,82		5,94		14,64		39,80
	3,52		0,45		1,71		0,83		1,82		5,93		14,41		39,20
	4,22		0,33		0,96		0,84		1,79		5,99		13,01		37,50
	4,92		0,19		-		0,81		1,47		5,13		9,25		26,00
5,62	-	-	0,06	1,06	1,93	1,62	7,60								
8,44	0	5,00	0,40	22,10	2,89	22,10	0,78	38,76	2,03	101,60	5,96	198,00	-	598,00	39,80
	0,35		0,40		2,77		0,78		2,03		5,96		-		39,80
	0,70		0,40		2,73		0,78		2,03		5,96		-		39,80
	1,41		0,40		2,65		0,78		2,03		5,96		-		39,80
	2,11		0,40		2,54		0,78		2,03		5,96		-		39,80
	2,81		0,40		2,32		0,77		2,01		5,96		-		39,80
	3,52		0,38		2,02		0,77		2,01		5,96		-		39,80
	4,22		0,37		1,57		0,77		2,00		6,01		-		38,60
	4,92		0,30		1,29		0,77		2,00		5,96		-		37,50
5,62	0,23	-	0,77	1,80	5,73	-	33,00								
6,33	0,09	-	0,74	1,08	3,86	-	19,50								
7,03	-	-	-	-	1,41	-	-								

MAZZEI AIRJECTION

Used in conjunction with Aqua-Traxx® and sub-irrigation systems to aerate the root area and improve crop results.

Inadequate soil aeration reduces the absorption rate of water and minerals by the roots. Saturated soils will trap metabolites, ethylene and carbon dioxide in the root area, where high concentrations can seriously affect the growth rate and size of the plant. Oxygen is also necessary for the survival of healthy soil microorganisms which help improve the physical properties of the soil and processes such as nitrification and ammonification.

AirJection injectors are designed to be installed on any side line, tape or dripline.



SPECIFICATIONS

- Available with NPT male connection in 7 1/2" versions, 2 3/4" versions, one 2" version and one 3" version.
- Motor flow rates ranging from 3.41 to 52.11 l/m
- 10% yield increase compared to conventional dripping*
- 50% increase in root mass - healthier and more vital plant *
- Less stress on the plant as it is able to simultaneously absorb water, air and soil nutrients during the irrigation cycle.
- Ease of use
- Efficient and compact Venturi design with no moving parts
- Colour coded unit for easy identification
- Moulded in 40% fiberglass reinforced polypropylene.

FLOW RATES TABLE (l/m)

Inlet pressure (kPa)	MAI-A3 (l/m)	MAI-A20 (l/m)	MAI-A24 (l/m)
138	3.41	21.32	27.63
172	3.79	23.85	29.65
207	4.16	26.00	31.92
241	4.54	27.76	35.07
276	4.92	29.52	37.09
310	5.30	31.16	40.00
345	5.55	33.43	41.38
414	6.06	36.08	45.42
483	6.43	39.24	48.83
552	6.94	41.76	52.11
Colour	Red	Tan	Brown

Codification

Code	Description
AMAI2081A	Mazzei injector in Kynar, 2" inlet for air injection
AMAI3090	Mazzei injector in Kynar, 3" inlet for air injection
MAI-A3	1/2" NPT Mazzei injector, red, flow rate 3.41-6.94 l/min
MAI-A5	1/2" NPT Mazzei injector, orange, flow rate 5.55-11.23 l/min
MAI-A7	1/2" NPT Mazzei injector, yellow, flow rate 7.07-14.64 l/min
MAI-A10	1/2" NPT Mazzei injector, green, flow rate 9.97-19.56 l/min
MAI-A12	1/2" NPT Mazzei injector, blue, flow rate 11.36-22.33 l/min
MAI-A14	1/2" NPT Mazzei injector, purple, flow rate 13.88-27.63 l/min
MAI-A16	1/2" NPT Mazzei injector, grey, flow rate 16.40-32.17 l/min
MAI-A20	3/4" NPT Mazzei injector, light brown, flow rate 21.32-41.76 l/min
MAI-A24	3/4" NPT Mazzei injector, brown, flow rate 27.63-52.11 l/min